

LINCOLN **CORSAIR** Owner's Manual 2023



The information contained in this publication was correct at the time of release. In the interest of continuous development, we reserve the right to change specifications, design or equipment at any time without notice or obligation. No part of this publication may be reproduced, transmitted, stored in a retrieval system or translated into any language in any form by any means without our written permission. Errors and omissions excepted.

© Ford Motor Company 2022

All rights reserved.

Part Number: -202208-20220823152403

California Proposition 65



WARNING: Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.



WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.
Wash your hands after handling.

Table of Contents

Contacting Us

Contacting Us	19
---------------------	----

Introduction

About This Publication	21
Using This Publication	22

Symbols Glossary

Symbols Used on Your Vehicle	23
------------------------------------	----

Data Privacy

Data Privacy	26
Service Data	27
Event Data	28
Settings Data	28
Connected Vehicle Data	29
Mobile Device Data	29
Emergency Call System Data	30

Environment

Protecting the Environment	31
----------------------------------	----

Visual Search

Steering Wheel	32
Instrument Panel	34
Vehicle Interior	36
Front Exterior	38
Rear Exterior	40

Child Safety

Child Safety Precautions	42
Child Restraint Anchor Points	43
Child Restraints	44
Installing Child Restraints	47
Booster Seats	52
Child Safety Locks	55

Seatbelts

Seatbelt Precautions	56
Fastening the Seatbelts	57
Sensitive Locking Mode	58
Automatic Locking Mode	58
Adjusting the Seatbelts During Pregnancy	59
Adjusting the Seatbelt Height	60

Seatbelt Reminder	60
Checking the Seatbelts	62
Seatbelt Extensions	63

Personal Safety System™

What Is the Personal Safety System	64
How Does the Personal Safety System Work	64
Personal Safety System Components	64

Airbags

How Do the Front Airbags Work	65
How Do the Side Airbags Work	65
How Do the Knee Airbags Work	66
How Does the Safety Canopy™ Work	67
Airbag Precautions	68
Properly Adjusting the Driver and Front Passenger Seats	69
Children and Airbags	69
Front Passenger Sensing System	69
Crash Sensors and Airbag Indicator	73
Disposing of Airbags	74

Table of Contents

Pedestrian Alert System - Plug-In Hybrid Electric Vehicle (PHEV)

What Is the Pedestrian Alert System	75
-------------------------------------------	----

911 Assist

What Is 911 Assist	76
How Does 911 Assist Work	76
Emergency Call Requirements	76
Emergency Call Limitations	77

Keys and Remote Controls

Remote Control Limitations	78
Using the Remote Control	78
Removing the Key Blade	79
Sounding the Panic Alarm	79
Locating Your Vehicle	79
Changing the Remote Control Battery	79
Replacing a Lost Key or Remote Control	81
Programming the Remote Control	81
Keys and Remote Controls – Troubleshooting	82

Phone as a Key

What Is Phone as a Key	83
Phone as a Key Limitations	83
Programming Your Phone	83
Using the Valet Mode	84
Using the Backup Start Passcode	84
Phone as a Key – Troubleshooting	85
Phone as a Key Videos	86

Doors and Locks

Operating the Doors From Outside Your Vehicle	87
Operating the Doors From Inside Your Vehicle	88
Door Lock Switch Inhibitor	88
Autounlock	88
Autolock	89
Mislock	89
Door Lock Indicators	89
Doors and Locks Audible Warnings	90
Doors and Locks – Troubleshooting	90

Keyless Entry

Keyless Entry Limitations	92
Keyless Entry Settings	92
Using Keyless Entry	92
Keyless Entry – Troubleshooting	93

Keyless Entry Keypad

What Is the Keyless Entry Keypad	94
Keyless Entry Keypad Limitations	94
Locating the Keyless Entry Keypad	94
Keyless Entry Keypad Master Access Code	94
Keyless Entry Keypad Personal Access Codes	95
Using the Keyless Entry Keypad	96
Keyless Entry Keypad – Troubleshooting	97

Easy Entry and Exit

How Does Easy Entry and Exit Work	98
Switching Easy Entry and Exit On and Off	98

Table of Contents

Liftgate

Liftgate Precautions	99
Opening the Liftgate	99
Setting the Liftgate Opening Height	101
Closing the Liftgate	102
Stopping the Liftgate Movement	104
Liftgate Obstacle Detection	104
Liftgate – Troubleshooting	105

Security

Passive Anti-Theft System	107
Anti-Theft Alarm System	107
Anti-Theft Alarm System Settings	108
Security – Troubleshooting	109

Steering Wheel

Adjusting the Steering Wheel - Vehicles With: Power Adjustable Steering Column	111
Adjusting the Steering Wheel - Vehicles With: Manual Adjustable Steering Column	111

Resetting the Stopping Position - Vehicles With: Power Adjustable Steering Column	112
Horn	112
Switching the Heated Steering Wheel On and Off	112

Wipers and Washers

Wipers	113
Autowipers	113
Switching the Rear Window Wiper On and Off	114
Reverse Wipe	114
Checking the Wiper Blades	115
Replacing the Front Wiper Blades	115
Replacing the Rear Wiper Blades	115
Washers	116
Wipers and Washers – Troubleshooting	117

Exterior Lighting

Exterior Lighting Control	118
Headlamps	118
Headlamps – Troubleshooting	119

Autolamps	119
Exterior Lamps	120
Automatic High Beam Control	121
Automatic High Beam Control – Troubleshooting	124
Adaptive Front Lighting	125
Adaptive Front Lighting – Troubleshooting	127

Interior Lighting

Switching All of the Interior Lamps On and Off	128
Switching the Front Interior Lamps On and Off	128
Switching the Rear Interior Lamps On and Off	128
Interior Lamp Function	129
Adjusting the Instrument Panel Lighting Brightness	129
Ambient Lighting	129
Interior Lighting – Troubleshooting	129

Windows

Opening and Closing the Windows	130
---------------------------------------	-----

Table of Contents

Global Opening and Closing	130
Window Bounce-Back	131
Locking the Rear Window Controls	132

Interior Mirror

Interior Mirror Precautions	133
Auto-Dimming Interior Mirror	133

Exterior Mirrors

Adjusting the Exterior Mirrors	134
Folding the Exterior Mirrors	134
Auto-Dimming Exterior Mirror	135

Moonroof

Opening and Closing the Sunshade	136
Opening and Closing the Moonroof	136
Venting the Moonroof	137
Moonroof Bounce-Back	137

Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

Instrument Cluster Overview	138
-----------------------------------	-----

Tachometer	139
Speedometer	139
Fuel Gauge	139
Engine Coolant Temperature Gauge	140
What Are the Instrument Cluster Warning Lamps	140
Instrument Cluster Warning Lamps	140
What Are the Instrument Cluster Indicators	142
Instrument Cluster Indicators	142

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

Instrument Cluster Overview	144
Power Gauge	146
Speedometer	146
Fuel Gauge	146
Vehicle Range Display	147
Engine Coolant Temperature Gauge	147
What Are the Instrument Cluster Warning Lamps	147
Instrument Cluster Warning Lamps	148

What Are the Instrument Cluster Indicators	150
Instrument Cluster Indicators	150

Instrument Cluster Display - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

Using the Instrument Cluster Display Controls	152
Instrument Cluster Display Main Menu	153
Customizing the Instrument Cluster Display	153

Instrument Cluster Display - Plug- In Hybrid Electric Vehicle (PHEV)

Using the Instrument Cluster Display Controls	154
Instrument Cluster Display Main Menu	155
Customizing the Instrument Cluster Display	155
Fuel Economy Display	156
EV Coach	156

Table of Contents

Electric Economy	156
Brake Coach	157
Trip Summary	157
Vehicle Charging Status	157

Personalized Settings

Changing the Language	158
Changing the Measurement Unit	158
Changing the Temperature Unit	158
Changing the Tire Pressure Unit	158

Trip Computer

Accessing the Trip Computer	159
Resetting the Trip Computer	159
Configuring the Trip Computer	159
Trip Data	159

Head Up Display

What Is the Head Up Display	160
Switching the Head Up Display On and Off	160
Head Up Display Settings	160
Head Up Display Indicators	162

Head Up Display – Troubleshooting	164
-----------------------------------------	-----

Remote Start

What Is Remote Start	165
Remote Start Precautions	165
Remote Start Limitations	165
Enabling Remote Start	165
Remotely Starting and Stopping the Vehicle	165
Extending the Remote Start Duration	166
Remote Start Remote Control Indicators	166
Remote Start Settings	166

Climate Control

Identifying the Climate Control Unit	168
Switching Climate Control On and Off	168
Switching Recirculated Air On and Off	168
Switching Air Conditioning On and Off	168
Switching Defrost On and Off	168

Switching Maximum Defrost On and Off	169
Switching Maximum Cooling On and Off	169
Switching the Heated Wiper Park On and Off	169
Switching the Heated Rear Window On and Off	169
Setting the Blower Motor Speed	170
Switching the Heated Mirrors On and Off	170
Setting the Temperature	170
Directing the Flow of Air	170
Auto Mode	170
Climate Control Hints	172

Interior Air Quality

What Is the Cabin Air Filter	174
Replacing the Cabin Air Filter	174
Auto Air Refresh	174
Interior Air Quality – Troubleshooting	177

Table of Contents

Front Seats

Front Seat Precautions	178
Sitting in the Correct Position	178
Power Seats	179
Massage Seats	182
Heated Seats	183
Ventilated Seats	184

Rear Seats

Manual Seats	185
Power Seats	187
Heated Seats	188

Rear Occupant Alert System

What is the Rear Occupant Alert System	189
How Does the Rear Occupant Alert System Work	189
Rear Occupant Alert System Precautions	190
Rear Occupant Alert System Limitations	190
Rear Occupant Alert System Settings	190

Rear Occupant Alert System Indicators	191
Rear Occupant Alert System Audible Warnings	191

Memory Function

How Does the Memory Function Work	192
Memory Function Precautions	192
Locating the Memory Function Buttons	192
Saving a Preset Position	192
Recalling a Preset Position	192

Garage Door Opener

Garage Door Opener Introduction	194
Garage Door Opener Precautions and Frequencies	194
Programming the Garage Door Opener	195
Garage Door Opener Additional Assistance	198

USB Ports

Locating the USB Ports	199
------------------------------	-----

Playing Media Using the USB Port	199
Charging a Device	199

Power Outlet

What Is the Power Outlet	201
Power Outlet Precautions	201
Locating the Power Outlets	201

Wireless Accessory Charger

What Is the Wireless Accessory Charger	202
Wireless Accessory Charger Precautions	202
Locating the Wireless Accessory Charger	202
Charging a Wireless Device	202
Wireless Accessory Charger – Troubleshooting	203

Storage

Overhead Storage	204
Glove Compartment	204
Center Console	204

Table of Contents

Starting and Stopping the Engine

Starting and Stopping the Engine – Precautions	205
Push Button Ignition Switch	205
Starting the Engine	206
Engine Block Heater	207
Stopping the Engine	208
Automatic Engine Stop	209
Accessing the Passive Key Backup Position	210
Starting and Stopping the Engine – Troubleshooting	210

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

What is a Hybrid Electric Vehicle	213
How Does a Hybrid Electric Vehicle Work	213
Hybrid Electric Vehicle Driving Characteristics	213
Hybrid Electric Vehicle Indicators	213

Hybrid Electric Vehicle Information – Troubleshooting	214
Plug-In Hybrid Electric Vehicle Information	215
Plug-In Hybrid Electric Vehicle Information – Troubleshooting	216
Power Flow	217

Auto-Start-Stop - Gasoline

What Is Auto-Start-Stop	220
Auto-Start-Stop Precautions	220
Switching Auto-Start-Stop On and Off	220
Stopping the Engine	220
Restarting the Engine	220
Auto-Start-Stop Indicators	220
Auto-Start-Stop – Troubleshooting	221

Fuel and Refueling

Fuel and Refueling Precautions	223
Fuel Quality	224
Locating the Fuel Filler Funnel	224
Running Out of Fuel	225
Refueling	226

Fuel Tank Capacity	230
Fuel and Refueling – Troubleshooting	231

Catalytic Converter

What Is the Catalytic Converter	233
Catalytic Converter Precautions	233
Catalytic Converter – Troubleshooting	234

High Voltage Battery - Plug-In Hybrid Electric Vehicle (PHEV)

What Is the High Voltage Battery	235
High Voltage Battery Precautions	235
Recycling and Disposing of the High Voltage Battery	235

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

What is AC Charging	236
Charging Your Vehicle Precautions	236
Charging Equipment	236

Table of Contents

Locating the Charge Port	247
Charge Port Indicators	247
AC Charging	248
Setting the Charging Schedule and Preferences	250
Using LincolnWay and Charging	255
Charging Your Vehicle – Troubleshooting	256
Charging Your Vehicle Videos	257

Automatic Transmission

Automatic Transmission Precautions	258
Automatic Transmission Positions	258
Shifting Your Vehicle Into Gear	259
Automatic Transmission Position Indicators	259
Manually Shifting Gears	259
Temporary Neutral Mode	260
Automatic Return to Park (P)	261
Grade Assist - Plug-In Hybrid Electric Vehicle (PHEV)	261
Manual Park Release - Gasoline	262
Shifting Your Immobile Vehicle Out of Park (P) - Gasoline	264

Automatic Transmission Audible Warnings	264
Automatic Transmission – Troubleshooting	265

All-Wheel Drive

How Does All-Wheel Drive Work	266
All-Wheel Drive Precautions	266
All-Wheel Drive Limitations	266
All-Wheel Drive – Troubleshooting	267

Brakes

Brake Precautions	268
Anti-Lock Braking System	268
Brake Over Accelerator	268
Locating the Brake Fluid Reservoir	269
Checking the Brake Fluid	269
Brake Fluid Specification	270
Brakes – Troubleshooting	270

Electric Parking Brake

What Is the Electric Parking Brake	272
Applying the Electric Parking Brake	272

Applying the Electric Parking Brake in an Emergency	272
Manually Releasing the Electric Parking Brake	272
Automatically Releasing the Electric Parking Brake	273
Electric Parking Brake Audible Warning	273
Releasing the Electric Parking Brake if the Vehicle Battery Has Run Out of Charge	273
Electric Parking Brake – Troubleshooting	273

Reverse Braking Assist

What Is Reverse Braking Assist	275
How Does Reverse Braking Assist Work	275
Reverse Braking Assist Precautions	275
Switching Reverse Braking Assist On and Off	276
Overriding Reverse Braking Assist	276
Reverse Braking Assist Indicators	276
Reverse Braking Assist – Troubleshooting	277

Table of Contents

Reverse Braking Assist Videos	278
-------------------------------------	-----

Cross Traffic Braking

What Is Cross Traffic Braking	279
How Does Cross Traffic Braking Work	279
Cross Traffic Braking Precautions	279
Switching Cross Traffic Braking On and Off	280
Overriding Cross Traffic Braking	280
Cross Traffic Braking Indicators	280
Cross Traffic Braking – Troubleshooting	281

Hill Start Assist

What Is Hill Start Assist	283
How Does Hill Start Assist Work	283
Hill Start Assist Precautions	283
Hill Start Assist – Troubleshooting	283

Auto Hold

How Does Auto Hold Work	284
Switching Auto Hold On and Off	284
Using Auto Hold	284

Auto Hold Indicators	285
Auto Hold Videos	285

Traction Control

How Does Traction Control Work	286
Switching Traction Control On and Off	286
Traction Control Indicator	286
Traction Control – Troubleshooting	286

Stability Control

How Does Stability Control Work	288
Switching Stability Control On and Off	289
Stability Control Indicator	289
Stability Control – Troubleshooting	290

Steering

Electric Power Steering	291
Steering – Troubleshooting	291

Parking Aids

Parking Aid Precautions	293
-------------------------------	-----

Switching Parking Aid On and Off	294
Rear Parking Aid	294
Front Parking Aid	295
Side Parking Aid	296
Parking Aid Indicators	297
Parking Aids – Troubleshooting	297

Rear View Camera

What Is the Rear View Camera	299
Rear View Camera Precautions	299
Locating the Rear View Camera	299
Rear View Camera Guide Lines	299
Rear View Camera Object Distance Indicators	300
Rear View Camera Settings	300

360 Degree Camera

What Is the 360 Degree Camera	302
How Does the 360 Degree Camera Work	302
360 Degree Camera Precautions	302
360 Degree Camera Limitations	303
Locating the 360 Degree Cameras	303

Table of Contents

360 Degree Camera Guide Lines	303
360 Degree Camera Settings	304

Active Park Assist

What Is Active Park Assist	305
How Does Active Park Assist Work	305
Active Park Assist Precautions	305
Switching Active Park Assist On and Off	305
Entering a Parallel Parking Space	306
Entering a Perpendicular Parking Space	306
Exiting a Parking Space	307
Active Park Assist – Troubleshooting	307

Adaptive Cruise Control

How Does Adaptive Cruise Control With Stop and Go Work	310
Adaptive Cruise Control Precautions	310
Adaptive Cruise Control Limitations	311
Switching Adaptive Cruise Control On and Off	313

Adaptive Cruise Control Automatic Cancellation	314
Setting the Adaptive Cruise Control Speed	314
Setting the Adaptive Cruise Control Gap	315
Canceling the Set Speed	317
Resuming the Set Speed	317
Overriding the Set Speed	318
Adaptive Cruise Control Indicators	318
Switching From Adaptive Cruise Control to Cruise Control	318
Lane Centering	319
Predictive Speed Assist	322
Predictive Speed Assist – Troubleshooting	325
Adaptive Cruise Control – Troubleshooting	325
Adaptive Cruise Control Videos	327

ActiveGlide™

What Is ActiveGlide™	328
How Does ActiveGlide™ Work	328
ActiveGlide™ Precautions	328

ActiveGlide™ Requirements	329
ActiveGlide™ Limitations	330
ActiveGlide™ Settings	330
Switching ActiveGlide™ On and Off	330
ActiveGlide™ Alerts	331
ActiveGlide™ Automatic Cancellation	331
ActiveGlide™ Indicators	332
Lane Change Assist	333
Lane Change Assist - Troubleshooting	334
In-Lane Repositioning	334
ActiveGlide™ – Troubleshooting	335
ActiveGlide™ Videos	337

Drive Mode Control

What Is Drive Mode Control	338
Selecting a Drive Mode	338
Drive Modes	338
Drive Mode Control Videos	340

Eco Coach

What Is Eco Coach	341
How Does Eco Coach Work	341

Table of Contents

How Does Instantaneous Efficiency Level Work	341
Viewing the Instantaneous Efficiency Level	341
How Does Trip Summary Work	341
Viewing the Trip Summary	341

Lane Keeping System

What Is the Lane Keeping System	342
How Does the Lane Keeping System Work	342
Lane Keeping System Precautions	342
Lane Keeping System Limitations	343
Switching the Lane Keeping System On and Off	343
Switching the Lane Keeping System Mode	344
Lane Keeping System Settings	344
Alert Mode	344
Aid Mode	344
Alert and Aid Mode	345
Lane Keeping System Indicators	346
Blind Spot Assist	347

Lane Keeping System – Troubleshooting	350
Lane Keeping System Videos	352

Blind Spot Information System

What Is Blind Spot Information System	353
How Does Blind Spot Information System Work	353
Blind Spot Information System Precautions	353
Blind Spot Information System Limitations	353
Blind Spot Information System Requirements	354
Switching Blind Spot Information System On and Off	354
Locating the Blind Spot Information System Sensors	354
Blind Spot Information System Indicators	355
Blind Spot Information System – Troubleshooting	356

Cross Traffic Alert

What Is Cross Traffic Alert	357
How Does Cross Traffic Alert Work	357
Cross Traffic Alert Precautions	357
Cross Traffic Alert Limitations	358
Switching Cross Traffic Alert On and Off	358
Locating the Cross Traffic Alert Sensors	358
Cross Traffic Alert Indicators	359
Cross Traffic Alert – Troubleshooting	360

Pre-Collision Assist

What Is Pre-Collision Assist	361
How Does Pre-Collision Assist Work	361
Pre-Collision Assist Precautions	361
Pre-Collision Assist Limitations	362
Pre-Collision Assist Limitations - Vehicles With: Intersection Assist	363
Switching Pre-Collision Assist On and Off	364
Locating the Pre-Collision Assist Sensors	365

Table of Contents

Distance Indication	365
Distance Alert	368
Automatic Emergency Braking	368
Evasive Steering Assist	368
Pre-Collision Assist – Troubleshooting	369

Driver Alert

What Is Driver Alert	372
How Does Driver Alert Work	372
Driver Alert Precautions	372
Driver Alert Limitations	373
Switching Driver Alert On and Off	373
Driver Alert – Troubleshooting	373

Speed Sign Recognition

What Is Speed Sign Recognition	374
How Does Speed Sign Recognition Work	374
Speed Sign Recognition Precautions	374
Speed Sign Recognition Limitations	374
Speed Sign Recognition Indicators	375
Setting the Speed Sign Recognition Speed Warning	375

Setting the Speed Sign Recognition Speed Tolerance	375
Speed Sign Recognition – Troubleshooting	376

Load Carrying

Load Carrying Precautions	378
Locating the Safety Compliance Certification Labels	379
What Is the Gross Axle Weight Rating	379
What Is the Gross Vehicle Weight Rating	379
What Is the Gross Combined Weight Rating	379
Calculating Payload	380
Calculating the Load Limit	380
Roof Rack	382

Luggage Compartment

Luggage Compartment Precautions	383
Installing and Removing the Luggage Compartment Cover	383
Luggage Compartment Anchor Points	385

Connecting a Trailer

Connecting a Trailer Precautions	386
Connecting a Trailer	386

Towing a Trailer

Towing a Trailer Precautions	388
Trailer Brake Precautions	388
Towing a Trailer Limitations	389
Loading Your Trailer	389
Trailer Towing Hints	389
Launching or Retrieving a Boat or Personal Watercraft	390
Towing Weights and Dimensions	391

Trailer Sway Control

How Does Trailer Sway Control Work	393
Trailer Sway Control Precautions	393

Driving Hints

Cold Weather Precautions	394
Driving on Snow and Ice	394
Breaking-In	394

Table of Contents

Driving Economically	394
Driving in Special Conditions	395
Driving Through Shallow Water	396
Floor Mats	397

Crash and Breakdown Information

Roadside Assistance	399
High Voltage Battery Vehicle Precautions - Plug-In Hybrid Electric Vehicle (PHEV)	400
Switching the Hazard Flashers On and Off	401
Jump Starting the Vehicle	402
Post-Crash Alert System	405
Post Impact Braking	405
Automatic Crash Shutoff	406
Transporting the Vehicle	406
Fail-Safe Cooling	407

Towing Your Vehicle

Towing Your Vehicle Precautions	409
---------------------------------------	-----

Recreationally Towing Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)	409
Recreationally Towing Your Vehicle - Gasoline, AWD	410
Recreationally Towing Your Vehicle - Gasoline, FWD	410
Emergency Towing - Plug-In Hybrid Electric Vehicle (PHEV)	410
Emergency Towing - Gasoline	411
Towing Your Vehicle – Troubleshooting	411

Fuses

Fuse Precautions	412
Under Hood Fuse Box	412
Body Control Module Fuse Box	421
Identifying Fuse Types	425
Fuses – Troubleshooting	425

Maintenance

Maintenance Precautions	426
Opening and Closing the Hood	426
Under Hood Overview - 2.0L EcoBoost™	428

Under Hood Overview - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV)	430
Engine Oil	432
Engine Air Filter	434
Coolant	437
Changing the Fuel Filter	441
Drive Belt Routing Overview - 2.0L EcoBoost™	442
12V Battery	442
12V Battery – Troubleshooting	446
Adjusting the Headlamps	448
Exterior Bulbs	450
Interior Bulbs	450
Maintenance Videos	450

Vehicle Care

Cleaning Products	451
Cleaning the Exterior	452
Cleaning the Interior	454
Repairing Minor Paint Damage	456
Waxing Your Vehicle	456

Table of Contents

Storing Your Vehicle

Preparing Your Vehicle for Storage	458
Removing Your Vehicle From Storage	459

Wheel and Tire Information

Locating the Tire label	460
Department of Transportation Uniform Tire Quality Grades	460
Information on the Tire Sidewall	461
Glossary of Tire Terminology	466
Tire Replacement Requirements	466
Using Snow Chains	469

Tire Care

Checking the Tire Pressures	471
Inflating the Tires	471
Inspecting the Tire for Wear	471
Inspecting the Tire for Damage	472
Inspecting the Wheel Valve Stems	473
Tire Rotation	473

Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)

What Is the Tire Sealant and Inflator Kit	475
Tire Sealant and Inflator Kit Precautions	475
Locating the Tire Sealant and Inflator Kit	475
Tire Sealant and Inflator Kit Components	476
Using the Tire Sealant and Inflator Kit	476

Tire Pressure Monitoring System

What Is the Tire Pressure Monitoring System	482
Tire Pressure Monitoring System Overview	482
Tire Pressure Monitoring System Precautions	483
Tire Pressure Monitoring System Limitations	484
Viewing the Tire Pressures	484

Tire Pressure Monitoring System – Troubleshooting	484
---------------------------------------------------------	-----

Changing a Road Wheel

Changing a Flat Tire	487
Wheel Nuts	493

Capacities and Specifications

Engine Specifications - 2.0L EcoBoost™	495
Engine Specifications - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV)	496
Motorcraft Parts - 2.0L EcoBoost™	497
Motorcraft Parts - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV)	498
Engine Oil Capacity and Specification - 2.0L EcoBoost™	499
Engine Oil Capacity and Specification - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV)	501
Cooling System Capacity and Specification - 2.0L EcoBoost™	503
Cooling System Capacity and Specification - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV)	504

Table of Contents

Fuel Tank Capacity - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)	505
Fuel Tank Capacity - Plug-In Hybrid Electric Vehicle (PHEV)	506
Air Conditioning System Capacity and Specification - 2.0L EcoBoost™	507
Air Conditioning System Capacity and Specification - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV)	509
Washer Fluid Specification	510
Brake Fluid Specification	511

Vehicle Identification

Vehicle Identification Number	513
-------------------------------------	-----

Connected Vehicle

What Is a Connected Vehicle	514
Connected Vehicle Requirements	514
Connected Vehicle Limitations	514
Connecting the Vehicle to a Mobile Network	514
Connecting the Vehicle to a Wi-Fi Network	514
Connected Vehicle – Troubleshooting	515

Connected Vehicle Videos	518
--------------------------------	-----

Vehicle Wi-Fi Hotspot

Creating a Vehicle Wi-Fi Hotspot	519
Changing the Vehicle Wi-Fi Hotspot Name or Password	519
Vehicle Wi-Fi Hotspot – Troubleshooting	520

Audio System

Audio System Precautions	521
Switching the Audio Unit On and Off	521
Selecting the Audio Source	521
Playing or Pausing the Audio Source	521
Adjusting the Volume	521
Switching Shuffle Mode On and Off	522
Switching Repeat Mode On and Off	522
Setting a Memory Preset	522
Muting the Audio	522
Adjusting the Sound Settings	522
Setting the Clock and Date	523
AM/FM Radio	523
Switching the Display On and Off	524

Digital Radio	524
Satellite Radio	525
Audio System – Troubleshooting	528
Audio System Videos	531

Center Display Overview

Center Display Precautions	532
Center Display Limitations	532
Status Bar	532
Home Screen	533
Information On Demand Screen	533
Rebooting the Center Display	533
Center Display Overview Videos	533

Voice Interaction

Lincoln Personal Assistant	534
----------------------------------	-----

Alexa Built-In

What is Alexa Built-In	536
Alexa Built-In Requirements	536
Signing Into Your Account	536
Using Alexa Built-In	536
Alexa Built-In Settings	536

Table of Contents

Phone		
Phone Precautions	538	
Connecting Your Phone	538	
Phone Menu	538	
Making and Receiving a Phone Call	540	
Sending and Receiving a Text Message	542	
Switching Text Message Notification On and Off	543	
Bluetooth®		
Connecting a Bluetooth® Device	544	
Playing Media Using Bluetooth®	544	
Apps		
App Precautions	545	
App Requirements	545	
Accessing Apps	545	
Enabling Apps on an iOS Device	545	
Enabling Apps on an Android Device	545	
Switching Apple CarPlay On and Off	546	
Switching Android Auto On and Off	546	
Personal Profiles		
How Do Personal Profiles Work	548	
Enabling or Disabling Personal Profiles	548	
Creating a Personal Profile	549	
Linking or Unlinking a Personal Profile to a Remote Control	549	
Linking or Unlinking a Personal Profile to a Device	549	
Navigation		
Connected Navigation	551	
Accessing Navigation	551	
Navigation Map Updates	551	
Adjusting the Map	551	
Live Traffic	551	
Setting a Destination	552	
Waypoints	552	
Route Guidance	553	
Vehicle Software Updates		
Vehicle Software Updates	554	
Software Update Settings	554	
Software Update Indicators	555	
Vehicle System Reset		
Performing a System Reset	557	
Accessories		
Accessories	558	
Lincoln Protect		
What Is Lincoln Protect	560	
Scheduled Maintenance		
General Maintenance Information	563	
Normal Scheduled Maintenance	568	
Special Operating Conditions Scheduled Maintenance	572	
Customer Information		
Rollover Warning	576	
The Better Business Bureau Auto Line Program	576	
The Mediation and Arbitration Program	577	

Table of Contents

Ordering a Canadian French Owner's
Manual578

Reporting Safety Defects in the United
States578

Reporting Safety Defects in Canada579

Third Party Software Copyright
Acknowledgment580

Radio Frequency Certification Labels
.....580

Perchlorate620

Replacement Parts Recommendation
.....620

Mobile Communications Equipment621

Federal Highway Administration
Regulation621

End User License Agreement621

Emission Law651

Export Unique Options652

Warranty Information653

Appendices

Electromagnetic Compatibility655

Contacting Us

If you require assistance or clarification on policies or procedures, please contact the customer relationship center.

United States

Lincoln
Lincoln Concierge
P.O. Box 6248
Dearborn, MI 48126
1-800-521-4140
TDD for the hearing impaired:
7-1-1 (where offered by your telephone
service provider)
www.owner.lincoln.com

Lincoln Automotive Financial Services - US Only

Lincoln Automotive Financial Services offers a full range of financing and lease plans to help you acquire your vehicle. We are dedicated to providing answers, information and a truly extraordinary experience.

For assistance call 1-888-498-8801, or for more information about Lincoln Automotive Financial Services and access to an account manager, visit www.lincoln.com/finance.

Canada

Lincoln
Customer Relationship Centre
P.O. Box 2000
Oakville, Ontario L6K 0C8
1-800-387-9333
TDD for the hearing impaired:
7-1-1 (where offered by your telephone
service provider)
www.lincolncanada.com

Australia

Ford Motor Company
Attention: Customer Relationship Centre
Private Mail Bag 5
Fairlane Business Park #3
Campbellfield, Victoria, 3061
Telephone: 13 3673 (FORD)
E-mail: foacust1@ford.com

New Zealand

Ford Motor Company
Attention: Customer Relationship Centre
Private Bag 76912
Manukau City 2241
Telephone: 0800 367 369 (FORDNZ)
E-mail: fnzcust@ford.com

China

Customer Relationship Center
Telephone: 400-988-6789
Email: info12@lincoln.com
Wechat Account: Lincoln_in_China
Weibo Account: Lincoln China

Asia Pacific

E-mail: expcac@ford.com

Contacting Us

Caribbean, Central America and Israel

Ford Motor Company
Ford Export Operations
Attention: Owner Relations
1555 Fairlane Drive
Fairlane Business Park #3
Allen Park, MI 48101
Fax: (313) 390-0804
Telephone: (313) 594-4857
E-mail: expcac@ford.com

U.S. Virgin Islands and Puerto Rico

Ford Motor Company
Ford Export Operations
Attention: Owner Relations
1555 Fairlane Drive
Fairlane Business Park #3
Allen Park, MI 48101
Telephone: (800) 841-3673
E-mail: prcac@ford.com

Chile

Ford Customer Service
Telephone: 800-470-408

Argentina

Telephone: 0800-888-3673

Brazil

www.ford.com.br

North Africa

E-mail: nafcrc@ford.com

Sub-Saharan Africa

E-mail: ssacrc@ford.com

Puerto Rico

Ford International Business Development,
Inc.
P.O. Box 11957
Caparra Heights Station
San Juan, PR 00922-1957
1-800-392-3673 (FORD)
Fax: (313) 390-0804
E-mail: prcac@ford.com
www.ford.com.pr

Middle East

Ford Middle East Customer Relationship
Center
P.O. Box 21740
Dubai, United Arab Emirates
Telephone: 80004441066
Toll-free number for the Kingdom of Saudi
Arabia: 8008443673
Mobily and Zain cell phone users in Saudi
Arabia: 800850078
Kuwait: 22280384
Local telephone number for Kuwait: +965 1
898900
Fax: +971 4 3327266
E-mail: menacac@ford.com
www.me.ford.com

South Korea

Telephone: +82-02-1600-6003
E-mail: infokr1@ford.com

Introduction

ABOUT THIS PUBLICATION



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.



WARNING: You risk death, fire, or serious injury to yourself and others if you do not follow the instruction highlighted by the warning symbol.

Thank you for choosing Lincoln. We recommend that you take some time to get to know your vehicle in order to benefit from greater safety and pleasure from driving it. Use this digital manual, that we have also made available for your continued use through the Lincoln Way app and your local Lincoln website to familiarize yourself with the basics.

Note: *To download the Lincoln Way app, visit your device's app store.*

Note: *To find the local Ford website, visit <https://corporate.ford.com/operations/locations/global-links.html>.*

Note: *Use and operate your vehicle in line with all applicable laws and regulations.*

Note: *Pass on all printed owner's information when selling this vehicle.*

Our digital resources include a comprehensive digital owner's manual that is dynamically created according to the features on your vehicle by using the vehicle identification number. See **Locating the Vehicle Identification Number** (page 513). The digital owner's manual includes visual

and full text search functions so that you can quickly locate the information you are looking for. It also includes links to a number of how-to videos created to help you understand some of the advanced technologies on your vehicle.

Features and Options

This publication describes product features and options available throughout the range of available models, sometimes even before they are generally available. It may describe options that are not available on the vehicle you have bought.

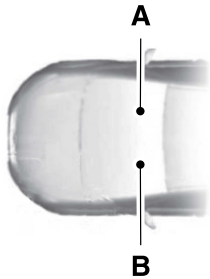
Illustrations

Some of the illustrations in this manual could show features as used in different models, some can appear different to you on your vehicle.

Location of Components

This manual may qualify the location of a component as left-hand side or right-hand side. The side is determined when facing forward in the seat.

Introduction



- A Right-hand side.
- B Left-hand side.

USING THIS PUBLICATION

To quickly locate information about your vehicle, use the word search within the Owner's Manual application.

Symbols Glossary

SYMBOLS USED ON YOUR VEHICLE

These are some of the symbols you may see on your vehicle.



Airbag



Air conditioning system



Air conditioning system lubricant type



Anti-lock braking system



Avoid smoking, flames or sparks



Battery



Battery acid



Blower motor



Brake fluid - non petroleum based



Brake system



Brake system



Cabin air filter



Check fuel cap



Child safety door lock or unlock



Child seat lower anchor



Child seat tether anchor



Cruise control



Do not open when hot



Electric Parking brake



Engine air filter



Engine coolant



Engine coolant temperature



Engine oil



Explosive gas



Fan warning



Fasten seatbelt

































Flammable



Front fog lamps

Symbols Glossary

	Fuel pump reset		Keep out of reach of children		Passenger airbag activated
	Fuse compartment		Lighting control		Passenger airbag deactivated
	Hazard flashers		Low fuel level		Power steering fluid
	Headlamp high beams		Low tire pressure warning		Power windows front/rear
	Headlamps on		Maintain correct fluid level		Power window lockout
	Heated rear window		Malfunction Indicator Lamp (MIL)		Requires registered technician
	Hill descent control		Note operating instructions		Safety alert
	Horn control		Panic alarm		See Owner's Manual
	Interior luggage compartment release		Parking aid		See Service Manual
	Jack		Parking lamps		Side airbag

Symbols Glossary



Shield the eyes



Stability control



Stability control off



Trail control



Turn Signal



Windshield defrosting system



Windshield wiping system



Windshield wash and wipe

Data Privacy



WARNING: Do not connect wireless plug-in devices to the data link connector. Unauthorized third parties could gain access to vehicle data and impair the performance of safety related systems. Only allow repair facilities that follow our service and repair instructions to connect their equipment to the data link connector.

We respect your privacy and are committed to protecting it. The information contained in this publication was correct at the time of release, but as technology rapidly changes, we recommend that you visit the local Lincoln website for the latest information.

Your vehicle has electronic control units that have data recording functionality and the ability to permanently or temporarily store data. This data could include information on the condition and status of your vehicle, vehicle maintenance requirements, events and malfunctions. The types of data that can be recorded are described in this section. Some of the data recorded is stored in event logs or error logs.

Note: Error logs are reset following a service or repair.

Note: We may provide information in response to requests from law enforcement, other government authorities and third parties acting with lawful authority or through a legal process. Such information could be used by them in legal proceedings.

Data recorded includes, for example:

- Operating states of system components, for example fuel level, tire pressure and battery charge level.
- Vehicle and component status, for example wheel speed, deceleration, lateral acceleration and seatbelt status.
- Events or errors in essential systems, for example headlamps and brakes.
- System responses to driving situations, for example airbag deployment and stability control.
- Environmental conditions, for example temperature.

Some of this data, when used in combination with other information, for example an accident report, damage to a vehicle or eyewitness statements, could be associated with a specific person.

Services That We Provide

If you use our services, we collect and use data, for example account information, vehicle location and driving characteristics, that could identify you. We transmit this data through a dedicated, protected connection. We only collect and use data to enable your use of our services to which you have subscribed, with your consent or where permitted by law. For additional information, see the terms and conditions of the services to which you have subscribed.

For additional information about our privacy policy, refer to the local Lincoln website.

Data Privacy

Services That Third Parties Provide

We recommend that you review the terms and conditions and data privacy information for any services equipped with your vehicle or to which you subscribe. We take no responsibility for services that third parties provide.

Where equipped, SiriusXM with 360L may use the modem. To disable, turn off the SiriusXM with 360L or Vehicle Connectivity setting. See **Enabling and Disabling the Modem** (page 514).

SERVICE DATA

Service data recorders in your vehicle are capable of collecting and storing diagnostic information about your vehicle. This potentially includes information about the performance or status of various systems and modules in the vehicle, such as engine, throttle, steering or brake systems. In order to properly diagnose and service your vehicle, Ford Motor Company (Ford of Canada in Canada), and service and repair facilities may access or share among them

vehicle diagnostic information received through a direct connection to your vehicle when diagnosing or servicing your vehicle. Additionally, Ford Motor Company (Ford of Canada, in Canada) may, where permitted by law, use vehicle diagnostic information for vehicle improvement or with other information we may have about you, for example, your contact information, to offer you products or services that may interest you. Data may be provided to our service providers such as part suppliers that may help diagnose malfunctions, and who are similarly obligated to protect data. We retain this data only as long as necessary to perform these functions or to comply with law. We may provide information where required in response to official requests to law enforcement or other government authorities or third parties acting with lawful authority or court order, and such information may be used in legal proceedings. For U.S. only (if equipped), if you choose to use connected apps and services, you consent that certain diagnostic information may also be accessed electronically by Ford Motor Company and Ford authorized service facilities, and that the diagnostic information

may be used to provide services to you, personalizing your experience, troubleshoot, and to improve products and services and offer you products and services that may interest you, where permitted by law. For Canada only, for more information, please review the Ford of Canada privacy policy at www.ford.ca, including our U.S. data storage and use of service providers in other jurisdictions who may be subject to legal requirements in Canada, the United States and other countries applicable to them, for example, lawful requirements to disclose personal information to governmental authorities in those countries.

Data Privacy

EVENT DATA

This vehicle is equipped with an event data recorder. The main purpose of an event data recorder is to record, in certain crash or near crash-like situations, such as an airbag deployment or hitting a road obstacle; this data will assist in understanding how a vehicle's systems performed. The event data recorder is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less.

The event data recorder in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating.
- Whether or not the driver and passenger seatbelts were buckled/fastened.
- How far (if at all) the driver was depressing the accelerator and/or the brake pedal.
- How fast the vehicle was traveling.
- Where the driver was positioning the steering wheel.

This data can help provide a better understanding of the circumstances in which crashes and injuries occur.

Note: *Event data recorder data is recorded by your vehicle only if a non-trivial crash situation occurs; no data is recorded by the event data recorder under normal driving conditions and no personal data or information (for example name, gender, age, and crash location) is recorded. However, parties, such as law enforcement, could combine the event data recorder data with the type of personally identifying data routinely acquired during a crash investigation.*

To read data recorded by an event data recorder, special equipment is required, and access to the vehicle or the event data recorder is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have such special equipment, can read the information if they have access to the vehicle or the event data recorder.

SETTINGS DATA

Your vehicle has electronic control units that have the ability to store data based on your personalized settings. The data is stored locally in the vehicle or on devices that you connect to it, for example, a USB drive or digital music player. You can delete some of this data and also choose whether to share it through the services to which you subscribe.

Comfort and Convenience Data

Data recorded includes, for example:

- Seat and steering wheel position.
- Climate control settings.
- Radio presets.

Entertainment Data

Data recorded includes, for example:

- Music, videos or album art.
- Contacts and corresponding address book entries.
- Navigation destinations.

Data Privacy

CONNECTED VEHICLE DATA



The modem has a SIM. The modem was enabled when your vehicle was built and periodically sends messages to stay connected to the cell phone network, receive automatic software updates and send vehicle-related information to us, for example diagnostic information. These messages could include information that identifies your vehicle, the SIM and the electronic serial number of the modem. Cell phone network service providers could have access to additional information, for example cell phone network tower identification. For additional information about our privacy policy, visit www.ConnectedLincoln.com or refer to your local Lincoln website.

Note: *The modem continues to send this information unless you disable the modem or stop the modem from sharing vehicle data by changing the modem settings. See **Connected Vehicle** (page 514).*

Note: *The service can be unavailable or interrupted for a number of reasons, for example environmental or topographical conditions and data plan coverage.*

Note: *To find out if your vehicle has a modem, visit www.ConnectedLincoln.com.*

MOBILE DEVICE DATA

If you connect a mobile device to your vehicle, you can display data from your device on the touchscreen for example, music and album art. You can share your vehicle data with mobile apps on your device through the system. See **App Requirements** (page 545).

The mobile apps function operates by your connected device sending data to us in the United States. The data is encrypted and includes, for example, the vehicle identification number of your vehicle, the SYNC module serial number, odometer, enabled apps, usage statistics and

debugging information. We retain it only as long as necessary to provide the service, to troubleshoot, for continuous improvement and to offer you products and services that may be of interest to you according to your preferences and where allowed by law.

If you connect a cell phone to the system, the system creates a profile that links to that cell phone. The cell phone profile enables more mobile features and efficient operation. The profile contains, for example data from your phonebook, read and unread text messages and call history, including history of calls when your cell phone was not connected to the system.

If you connect a media device, the system creates and retains a media device index of supported media content. The system also records a short diagnostic log of approximately 10 minutes of all recent system activity.

Data Privacy

The cell phone profile, media device index and diagnostic log remain in your vehicle unless you delete them and are generally accessible only in your vehicle when you connect your cell phone or media device. If you no longer plan to use the system or your vehicle, we recommend you use the master reset function to erase the stored information. See **Performing a System Reset** (page 557).

System data cannot be accessed without special equipment and access to your vehicle's module.

For additional information about our privacy policy, refer to the local Lincoln website.

Note: *To find out if your vehicle has connectivity technology, visit www.ConnectedLincoln.com.*

EMERGENCY CALL SYSTEM DATA

When the emergency call system is active, it may disclose to emergency services that your vehicle has been in a crash involving the deployment of an airbag or activation of the fuel pump shut-off. Certain versions or updates to the emergency call system may also be capable of electronically or verbally disclosing to emergency services operators your vehicle location or other details about your vehicle or crash to assist emergency services operators to provide the most appropriate emergency services. If you do not want to disclose this information, do not activate the emergency call system.

Note: *You cannot deactivate emergency call systems that are required by law.*

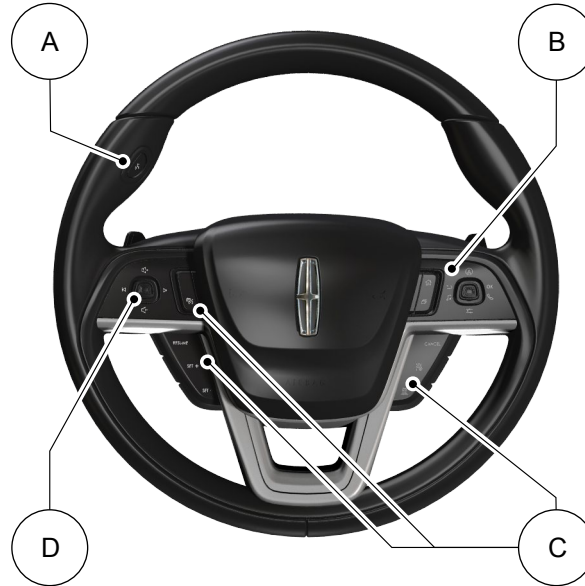
PROTECTING THE ENVIRONMENT

You can take significant steps toward protecting the environment with correct vehicle usage and the authorized disposal of waste, cleaning and lubrication materials.

For additional information about our sustainability progress and initiatives, visit www.sustainability.ford.com.

Visual Search

STEERING WHEEL

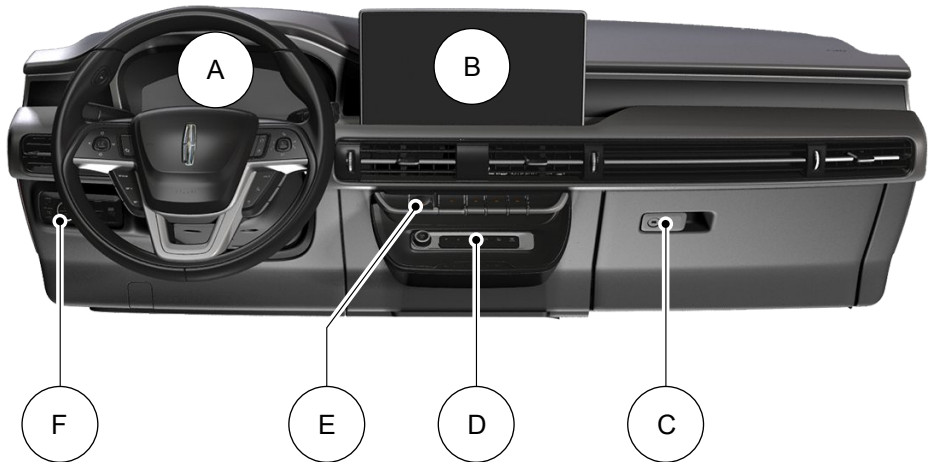


Visual Search

- A See **Using Lincoln Personal Assistant** (page 534).
- B See **Using the Instrument Cluster Display Controls** (page 152).
- C See **Switching Adaptive Cruise Control On and Off** (page 313).
- D See **Adjusting the Volume** (page 521).

Visual Search

INSTRUMENT PANEL

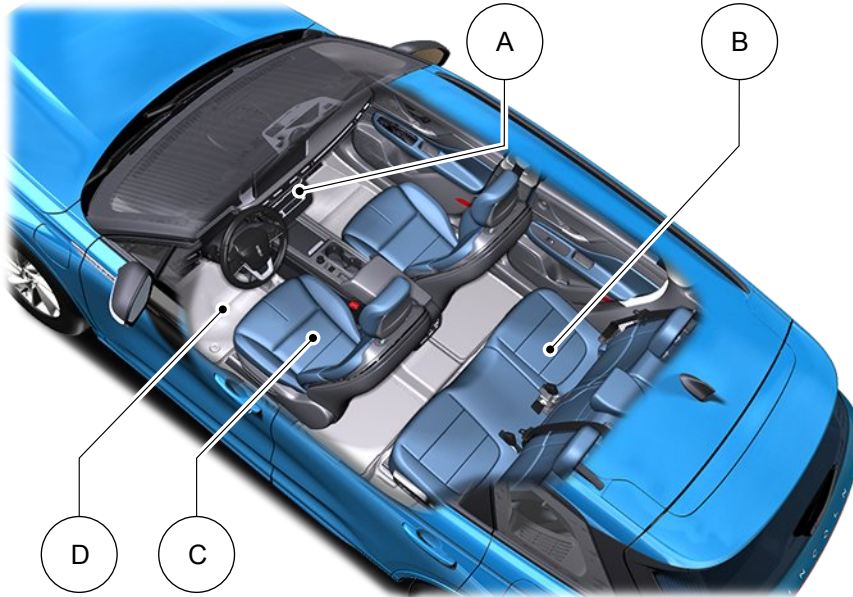


Visual Search

- A See **Instrument Cluster Overview** (page 138). See **Instrument Cluster Overview** (page 144).
- B See **Status Bar** (page 532).
- C See **Opening the Glove Compartment** (page 204).
- D See **Switching the Hazard Flashers On and Off** (page 401).
- E See **Push Button Ignition Switch** (page 205).
- F See **Exterior Lighting Control** (page 118).

Visual Search

VEHICLE INTERIOR

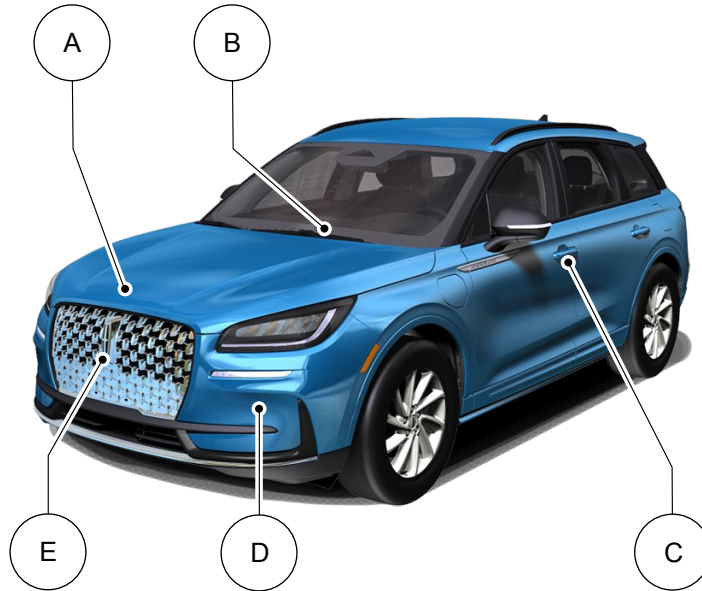


Visual Search

- A See **Shifting Your Vehicle Into Gear** (page 259).
- B See **Folding the Seat Backrest** (page 186). See **Folding the Seat Backrest** (page 187).
- C See **Sitting in the Correct Position** (page 178).
- D See **Floor Mats** (page 397).

Visual Search

FRONT EXTERIOR

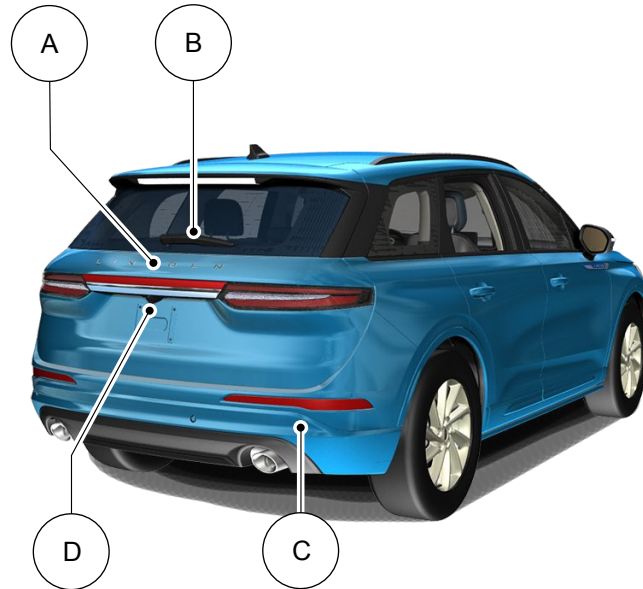


Visual Search

- A See **Opening and Closing the Hood** (page 426).
- B See **Replacing the Front Wiper Blades** (page 115).
- C See **Using Keyless Entry** (page 92).
- D See **Locating the Front Parking Aid Sensors** (page 295).
- E See **Locating the 360 Degree Cameras** (page 303).

Visual Search

REAR EXTERIOR



Visual Search

- A See **Opening the Liftgate From Outside Your Vehicle** (page 99).
- B See **Replacing the Rear Wiper Blades** (page 115).
- C See **Locating the Rear Parking Aid Sensors** (page 294).
- D See **Locating the 360 Degree Cameras** (page 303).

Child Safety

CHILD SAFETY PRECAUTIONS



WARNING: Always make sure your child is secured properly in a device that is appropriate for their height, age and weight. Child safety restraints must be bought separately from your vehicle. Failure to follow these instructions and guidelines may result in an increased risk of serious injury or death to your child.



WARNING: All children are shaped differently. The National Highway Traffic Safety Administration and other safety organizations, base their recommendations for child restraints on probable child height, age and weight thresholds, or on the minimum requirements of the law. We recommend that you check with a NHTSA Certified Child Passenger Safety Technician (CPST) to make sure that you properly install the child restraint in your vehicle and that you consult your pediatrician to make sure you have a child restraint appropriate for your child. To locate a child restraint fitting station and

CPST, contact NHTSA toll free at 1-888-327-4236 or go to www.nhtsa.dot.gov. In Canada, contact Transport Canada toll free at 1-800-333-0371 or go to www.tc.gc.ca to find a Child Car Seat Clinic in your area. Failure to properly restrain children in child restraints made especially for their height, age and weight, may result in an increased risk of serious injury or death to your child.



WARNING: On hot days, the temperature inside the vehicle can rise very quickly. Exposure of people or animals to these high temperatures for even a short time can cause death or serious heat related injuries, including brain damage. Small children are particularly at risk.



WARNING: Do not place a rearward facing child restraint in front of an active airbag. Failure to follow this instruction could result in personal injury or death.



WARNING: Properly secure children 12 years old and under in a rear seating position whenever possible. If you are unable to properly secure all children in a rear seating position, properly secure the largest child on the front seat. If you must use a forward facing child restraint on the front seat, move the seat as far back as possible. Failure to follow these instructions could result in personal injury or death.



WARNING: Always carefully follow the instructions and warnings provided by the manufacturer of any child restraint to determine if the restraint device is appropriate for your child's size, height, weight, or age. Follow the child restraint manufacturer's instructions and warnings provided for installation and use in conjunction with the instructions and warnings provided by your vehicle

Child Safety

manufacturer. A safety seat that is improperly installed or utilized, is inappropriate for your child's height, age, or weight or does not properly fit the child may increase the risk of serious injury or death.



WARNING: Do not allow a passenger to hold a child on their lap when your vehicle is moving. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.



WARNING: Do not use pillows, books or towels to boost your child's height. Failure to follow this instruction could result in personal injury or death.



WARNING: Properly secure child restraints or booster seats when they are not in use. They could become projectiles in a sudden stop or crash. Failure to follow this instruction could result in personal injury or death.



WARNING: Do not put the shoulder section of the seatbelt or allow the child to put the shoulder section of the seatbelt under their arm or behind their back. Failure to follow this instruction could reduce the effectiveness of the seatbelt and increase the risk of injury or death in a crash.



WARNING: Do not leave children or pets unattended in your vehicle. Failure to follow this instruction could result in personal injury or death.

When installing a child restraint with seatbelts:

- Place the vehicle seat in the upright position before you install the child restraint.
- Use the correct seatbelt buckle for that seating position.
- Insert the belt tongue into the buckle. Make sure the tongue is securely fastened in the buckle.

- Keep the buckle release button pointing up and away from the child restraint, with the tongue between the child restraint and the release button, to prevent accidental unbuckling.
- Put the seatbelt in the automatic locking mode.

CHILD RESTRAINT ANCHOR POINTS

WHAT ARE THE CHILD RESTRAINT ANCHOR POINTS

Anchor points allow you to quickly and safely install a child restraint.

Child Safety

LOCATING THE CHILD RESTRAINT LOWER ANCHOR POINTS



LOCATING THE CHILD RESTRAINT TOP TETHER ANCHOR POINTS



CHILD RESTRAINTS

CHILD RESTRAINT POSITION INFORMATION

Install the child restraint tightly against the vehicle seat. It may be necessary to lift or remove the head restraint.

Rear Facing Child Restraints

Combined Weight of Child and Child Restraint	LATCH (Lower Anchors Only)	Seatbelt Only
Up to 65 lb (29 kg)	X	X
Over 65 lb (29 kg)		X

Child Safety

Forward Facing Child Restraints

Combined Weight of Child and Child Restraint	LATCH (Lower Anchors and Top Tether Anchor)	Seatbelt and Top Tether Anchor	Seatbelt and LATCH (Lower Anchors and Top Tether Anchor)
Up to 65 lb (29 kg)	X	X	X
Over 65 lb (29 kg)		X	X

Child Safety

CHILD RESTRAINTS RECOMMENDATION

Child Size, Height, Weight, or Age	Recommended Restraint Type
Children weighing 40 lb (18 kg) or less (generally age four or younger).	Use a child restraint (sometimes called an infant carrier, convertible seat, or toddler seat).
Children who have outgrown or no longer properly fit in a child restraint (generally children who are less than 57 in (1.45 m) tall, are greater than age four and less than age 12, and between 40 lb (18 kg) and 80 lb (36 kg) and upward to 100 lb (45 kg) if recommended by your child restraint manufacturer).	Use a belt-positioning booster seat.
Children who have outgrown or no longer properly fit in a belt-positioning booster seat (generally children who are at least 57 in (1.45 m) tall or greater than 80 lb (36 kg) or 100 lb (45 kg) if recommended by child restraint manufacturer).	Use a vehicle seatbelt having the lap belt snug and low across the hips, shoulder belt centered across the shoulder and chest, and seat backrest upright.

You are required by law to properly use child restraints for infants and toddlers in the United States, Canada and Mexico.

Many states and provinces require that small children use approved booster seats until they reach age eight, a height of 57 in (1.45 m) tall, or 80 lb (36 kg). Check your local and state or provincial laws for specific requirements about the safety of children in your vehicle.

When possible, properly restrain children 12 years of age and under in a rear seating position of your vehicle. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in a front seating position.

When installing a rear facing child restraint, adjust the vehicle seats to avoid interference between the child restraint and the vehicle seat in front of the child restraint.

Child Safety

INSTALLING CHILD RESTRAINTS

USING SEATBELTS



WARNING: Depending on where you secure a child restraint, and depending on the child restraint design, you may block access to certain seatbelt buckle assemblies and LATCH lower anchors, rendering those features potentially unusable. To avoid risk of injury, make sure occupants only use seating positions where they are able to be properly restrained.

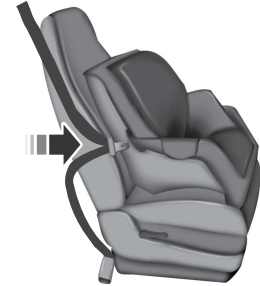
Note: *Although the child restraint illustrated is a forward-facing child restraint, the steps are the same for installing a rear-facing child restraint.*

Perform the following steps when installing the child restraint with seatbelts:

1. Position the child restraint in a seat with a seatbelt.

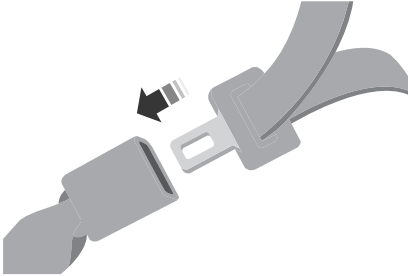


2. After positioning the child restraint in the proper seating position, pull down on the shoulder belt and then grasp the shoulder belt and lap belt together behind the belt tongue.



3. While holding the shoulder and lap belt portions together, route the tongue through the child restraint according to the child restraint manufacturer's instructions. Make sure that you did not twist the belt webbing.

Child Safety



4. Insert the belt tongue into the proper buckle (the buckle closest to the direction the tongue is coming from) for that seating position until you hear a snap and feel the latch engage. Make sure the tongue is latched securely by pulling on it.



5. To put the retractor in the automatic locking mode, grasp the shoulder portion of the belt and pull downward until you pull all of the belt out.

Note: *The automatic locking mode is available on the front passenger and rear seats.*

6. Allow the belt to retract to remove slack. The belt clicks as it retracts to indicate it is in the automatic locking mode.

7. Try to pull the belt out of the retractor to make sure the retractor is in the automatic locking mode. You should not be able to pull more belt out. If the retractor did not lock, unbuckle the belt and repeat Steps 5 and 6.

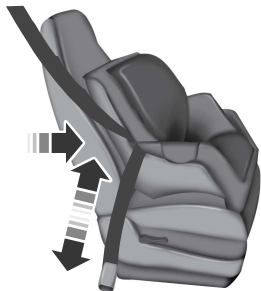


8. Remove remaining slack from the belt. Force the seat down with extra weight, for example, by pressing down or kneeling on the child restraint while pulling up on the shoulder belt in order to force slack from the belt. This is necessary to remove the remaining slack that exists once you add the extra weight

Child Safety

of the child to the child restraint. It also helps to achieve the proper snugness of the child restraint to your vehicle. Sometimes, a slight lean toward the buckle will provide extra help to remove remaining slack from the belt.

9. If the child restraint has a tether strap, attach it.



10. Before placing the child in the seat, forcibly move the seat forward and back to make sure the seat is securely held in place. To check this, grab the seat at the belt path and attempt to move it side to side and forward and back. There should be no more than 1 in (2.5 cm) of movement.

We recommend checking with a NHTSA Certified Child Passenger Safety Technician to make certain the child restraint is properly installed. In Canada, check with Transport Canada for referral to a Child Car Seat Clinic.

USING LOWER ANCHORS AND TETHERS FOR CHILDREN



WARNING: Do not attach two child safety restraints to the same anchor. In a crash, one anchor may not be strong enough to hold two child safety restraint attachments and may break, causing serious injury or death.



WARNING: Depending on where you secure a child restraint, and depending on the child restraint design, you may block access to certain seatbelt buckle assemblies and LATCH lower anchors, rendering those features potentially unusable. To avoid risk of injury, make sure occupants only use seating positions where they are able to be properly restrained.

The LATCH (Lower Anchors and Tethers for CHildren) system has three vehicle anchor points.

- Two lower anchors where the seat backrest and seat cushion meet, called the seat bight.
- One top tether anchor behind that seating position.

Child Safety

LATCH-compatible child restraints have two rigid or webbing mounted attachments that connect to the two lower anchors at the LATCH-equipped seating positions in your vehicle. This type of attachment method eliminates the need to use seatbelts to attach the child restraint.

However, you can still use the seatbelt to attach the child restraint. For forward-facing child restraints, you must also attach the top tether strap to the proper top tether anchor if a top tether strap has been provided with your child restraint.

Follow the instructions on attaching child restraints with tether straps.

INSTALLING A CHILD RESTRAINT IN A CENTER SEAT



WARNING: The standardized spacing for LATCH lower anchors is 11 in (280 mm) center to center. Do not use LATCH lower anchors for the center seating position unless the child restraint manufacturer's instructions permit and specify using anchors spaced at least as far apart as those in this vehicle.

The lower anchors at the center of the second row rear seat are spaced 18 in (46 cm) apart. You cannot install a child restraint with rigid LATCH attachments at the center seating position. You can only use LATCH compatible child restraints with attachments on belt webbing at this seating position provided that the child restraint manufacturer's instructions permit use with the anchor spacing stated. Do not attach a child restraint to any lower anchor if an adjacent child restraint is attached to that anchor.

Each time you use the child restraint, check that the seat is properly attached to the lower anchors and tether anchor, if applicable. Tug the child restraint from side to side and forward and back where it is secured to your vehicle. The seat should move less than 1 in (2.5 cm).

If you did not properly anchor the child restraint, the risk of a child being injured in a crash greatly increases.

COMBINING THE SEATBELT AND LOWER ANCHORS FOR ATTACHING CHILD RESTRAINTS

When used in combination, you may attach either the seatbelt or the LATCH lower anchors first, provided a proper installation is achieved. Attach the tether strap afterward, if it is included with the child restraint.

Child Safety

USING TETHER STRAPS

Many forward-facing child restraints include a tether strap which extends from the back of the child restraints and hooks to an anchoring point called the top tether anchor. Tether straps are available as an accessory for many older child restraints.

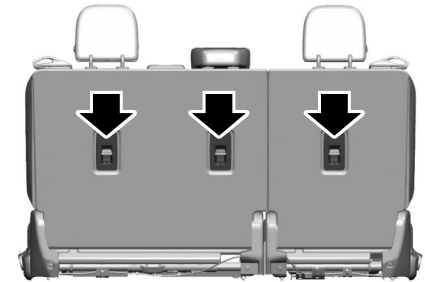
Contact the manufacturer of your child restraint for information about ordering a tether strap, or to obtain a longer tether strap if the tether strap on your child restraint does not reach the appropriate top tether anchor in your vehicle.

Once you install the child restraint using either the seatbelt, the lower anchors of the LATCH system, or both, you can attach the top tether strap.

Perform the following steps to install a child restraint with tether anchors:

Note: If you install a child restraint with rigid LATCH attachments, do not tighten the tether strap enough to lift the child restraint off your vehicle seat cushion when the child is seated in it. Keep the tether strap just snug without lifting the front of the child restraint. Keeping the child restraint just touching your vehicle seat gives the best protection in a crash.

1. Route the child restraint tether strap over the back of the seat. For the outermost seating positions, route the tether strap under the head restraint and between the head restraint posts. For the center seating positions, route the tether strap over the top of the head restraint. If needed, you can also remove the head restraints.



2. Locate the correct anchor on the back panel of the rear seat for the selected seating position. The anchors are labeled with the tether strap symbol.



Child Safety

3. Clip the tether strap to the anchor as shown.
4. Tighten the child restraint tether strap according to the manufacturer's instructions.

Note: *If your child restraint system has a tether strap and the manufacturer recommends its use, we also recommend its use.*

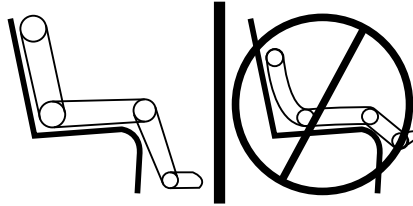
BOOSTER SEATS

Use a belt-positioning booster seat for children who have outgrown or no longer properly fit in a child restraint and meet the following criteria.

- Generally children who are less than 57 in (1.45 m) tall.
- Are greater than age four (4) and less than age twelve (12).
- Are between 40 lb (18 kg) and 80 lb (36 kg) and upward to 100 lb (45 kg).

Many state and provincial laws require that children use approved booster seats until they reach age eight, a height of 57 in (1.45 m) tall, or 80 lb (36 kg).

Booster seats should be used until you can answer yes to all of these questions when seated without a booster seat:



- Can the child sit all the way back against their vehicle seat backrest with knees bent comfortably at the edge of the seat cushion?
- Can the child sit without slouching?
- Does the lap belt rest low across the hips?

- Is the shoulder belt centered on the shoulder and chest?
- Can the child stay seated like this for the whole trip?

Always use booster seats in conjunction with your vehicle lap and shoulder belt.

Types of Booster Seats



- Backless booster seats

If your backless booster seat has a removable shield, remove the shield.

Child Safety

If a vehicle seating position has a low seat backrest or no head restraint, a backless booster seat may place your child's head, as measured at the tops of the ears, above the top of the seat. In this case, move the backless booster to another seating position with a higher seat backrest or head restraint and lap and shoulder belts, or consider using a high-back booster seat.



- High-back booster seats

If, with a backless booster seat, you cannot find a seating position that adequately supports your child's head, a high-back booster seat would be a better choice.

Children and booster seats vary in size and shape. Choose a booster that keeps the lap belt low and snug across the hips, never up across the stomach, and lets you adjust the shoulder belt to cross the chest and rest snugly near the center of the shoulder.

The following drawings compare the ideal fit to a shoulder belt uncomfortably close to the neck and a shoulder belt that could slip off the shoulder. The drawings also show how the lap belt should be low and snug across the child's hips.

Child Safety



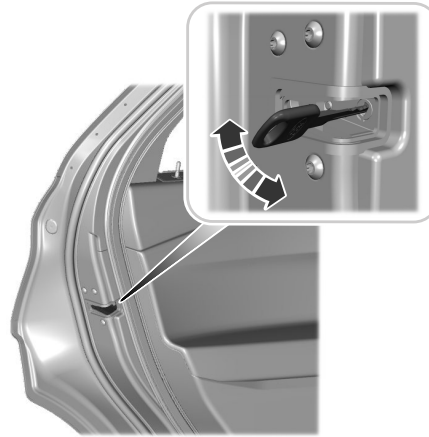
Child Safety

If the booster seat slides on the vehicle seat upon which it is being used, placing a rubberized mesh sold as shelf or carpet liner under the booster seat may improve this condition. Do not use any item thicker than this under the booster seat. Check with the booster seat manufacturer's instructions.

CHILD SAFETY LOCKS



WARNING: You cannot open the rear doors from inside if you have put the child safety locks on.



A child safety lock is on the rear edge of each rear door. You must switch each child safety lock separately.

Left-Hand Side

Turn it clockwise to switch the child lock on and counterclockwise to switch it off.

Right-Hand Side


Turn it counterclockwise to switch the child lock on and clockwise to switch it off.


Note: To make sure the child safety lock is on, pull the inside door handle twice to verify the door does not open.


Note: To open the rear doors from inside the vehicle when the child lock is engaged, roll down the rear window and use the outside door handle. Or have someone outside the vehicle open the door.


Seatbelts


SEATBELT PRECAUTIONS


 **WARNING:** Always drive and ride with your seatback upright and the lap belt snug and low across the hips.


 **WARNING:** Children must always be properly restrained.


 **WARNING:** Do not allow a passenger to hold a child on their lap when your vehicle is moving. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.


 **WARNING:** All occupants of your vehicle, including the driver, should always properly wear their seatbelts, even when an airbag supplemental restraint system is provided. Failure to properly wear your seatbelt could seriously increase the risk of injury or death.


 **WARNING:** It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a crash, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and seatbelts. Make sure everyone in your vehicle is in a seat and properly using a seatbelt. Failure to follow this warning could result in serious personal injury or death.

 **WARNING:** In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seatbelt.

 **WARNING:** Each seating position in your vehicle has a specific seatbelt assembly made up of one buckle and one tongue designed to be used as a pair. Use the shoulder belt on the outside shoulder only. Never wear the shoulder belt under the arm. Never use a single seatbelt for more than one person.

 **WARNING:** Even with advanced restraints systems, properly restrain children 12 and under in a rear seating position. Failure to follow this could seriously increase the risk of injury or death.

 **WARNING:** Seatbelts and seats may be hot in a vehicle that is in the sunshine. The hot seatbelts or seats may burn a small child. Check seat covers and buckles before you place a child anywhere near them.

 **WARNING:** If your vehicle is involved in a crash, have the seatbelts and associated components inspected as soon as possible. Failure to follow this instruction could result in personal injury or death.

All seating positions in this vehicle have lap and shoulder seatbelts. All occupants of the vehicle should properly wear their seatbelts, even when an airbag supplemental restraint system is provided.

Seatbelts

The seatbelt system consists of:

- Lap and shoulder seatbelts.
- A shoulder seatbelt with automatic locking mode, except driver seatbelt.
- Height adjusters at the front outermost seating positions.
- Seatbelt pretensioners at the front outermost and second row outermost seating positions.
- Belt tension sensor at the front outermost passenger seating position.



A seatbelt warning light and tone.

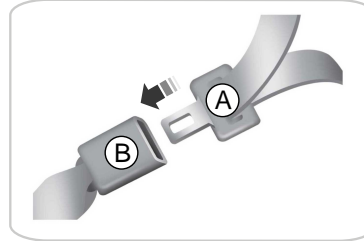


Crash sensors and monitoring system with readiness indicator.

The seatbelt pretensioners are designed to tighten the seatbelts when activated. In frontal and near-frontal crashes, the seatbelt pretensioners may be activated alone or, if the crash is of sufficient severity, together with the front airbags. The pretensioners may also activate when a Safety Canopy airbag deploys.

FASTENING THE SEATBELTS

All seatbelts in your vehicle are a three-point combination lap and shoulder seatbelt.



A Seatbelt tongue.

B Seatbelt buckle.

1. Pull the seatbelt out steadily.

Note: It may lock if you pull it sharply or if the vehicle is on a slope.

2. Insert the tongue into the buckle.
3. Pull the seatbelt tight to remove any slack.

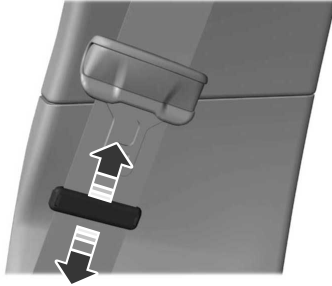
Unfastening the Seatbelts

1. Press the red button on the buckle to release the seatbelt.
2. Hold the seatbelt tongue and let it retract completely and smoothly to its stowed position.

When in use, place the rear seatbelts in the belt guides on the outermost seat backrests.

Seatbelts

Using a Sliding Clip (If Equipped)



Slide the clip away from the tongue so there is no loose webbing when an occupant or child seat is buckled. Use the sliding clip to raise the tongue to prevent it from rattling and to access it more easily.

SENSITIVE LOCKING MODE

WHAT IS SENSITIVE LOCKING MODE

Sensitive locking mode is a seatbelt retractor feature that allows shoulder belt length adjustment according to your movements and locking in response to vehicle movement.

HOW DOES SENSITIVE LOCKING MODE WORK

If the driver suddenly brakes, turns a corner sharply, or the vehicle receives an impact of about 5 mph (8 km/h) or more, the seatbelts lock to help reduce forward movement of the driver and passengers.

In addition, the seatbelt retractor locks if you pull the seatbelt webbing out too quickly. If the retractor locks, slowly lower the height adjuster to allow the seatbelt to retract.

If the retractor does not unlock, pull the seatbelt out slowly then feed a small length of webbing back toward the stowed position.

AUTOMATIC LOCKING MODE

WHAT IS AUTOMATIC LOCKING MODE

This is a safety feature built into the seatbelt retractors that keeps the seatbelts pre-locked.

ENGAGING AUTOMATIC LOCKING MODE



1. Fasten the combination lap and shoulder belt.

Seatbelts

2. Grasp the shoulder portion and pull downward until you pull the entire belt out.
3. Allow the belt to retract. As the belt retracts, you will hear a clicking sound. This indicates the seatbelt is now in the automatic locking mode.

DISENGAGING AUTOMATIC LOCKING MODE

Unbuckle the combination lap and shoulder belt and allow it to retract completely to disengage the automatic locking mode and activate the vehicle sensitive locking mode.

Extracting Seatbelts in the Rear Outermost Seat Positions

Seatbelts in the rear outermost positions can lock if you firmly return the seat backrest to its upright position. You can unlock the seatbelts using the following procedures.

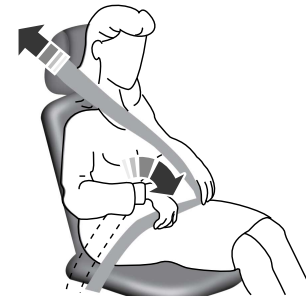
For vehicles where the rear seats recline:

1. Recline the seat to its full rear recline position.
 2. The seatbelt should then unlock.
 3. Return the seat backrest to its desired upright position.
- For vehicles with rear seats that do not recline or are locked with the seat in its full rear recline position:
1. Grasp the seatbelt webbing at the top of the seat backrest.
 2. Pull the seatbelt webbing forward, firmly.
 3. After pulling the seatbelt forward, allow the seatbelt to feed back into the seatbelt retractor as much as possible. If necessary, press the seat backrest down to allow the seatbelt webbing to retract further.
 4. The seatbelt should then unlock.
 5. If the seatbelt does not unlock, repeat steps 1-3.

ADJUSTING THE SEATBELTS DURING PREGNANCY



WARNING: Always ride and drive with your seatback upright and properly fasten your seatbelt. Fit the lap portion of the seatbelt snugly and low across the hips. Position the shoulder portion of the seatbelt across your chest. Pregnant women must follow this practice. See the following figure.



Seatbelts

Pregnant women should always wear their seatbelt. Position the lap belt portion of a combination lap and shoulder belt low across the hips below the belly and worn as tight as comfort allows. Position the shoulder belt to cross the middle of the shoulder and the center of the chest.

ADJUSTING THE SEATBELT HEIGHT



WARNING: Position the seatbelt height adjuster so that the seatbelt rests across the middle of your shoulder. Failure to adjust the seatbelt correctly could reduce its effectiveness and increase the risk of injury in a crash.



1. Press the button and slide the height adjuster up or down.
2. Release the button and pull down on the height adjuster to make sure it is locked in place.

SEATBELT REMINDER

HOW DOES THE SEATBELT REMINDER WORK



WARNING: The system will only provide protection when you use the seatbelt correctly.

This system monitors all seating positions and provides audio and graphic feedback.

SEATBELT REMINDER INDICATORS



This lamp illuminates if you do not fasten your seatbelt when you switch the ignition on. The lamp switches off when you fasten your seatbelt or about one minute has elapsed.

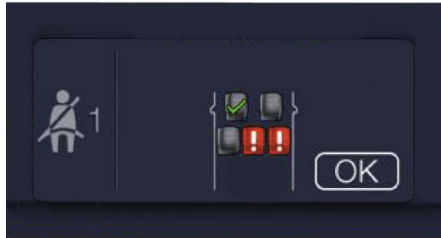
When the initial warning expires for the driver, more warnings are provided for the driver and front passenger. This lamp illuminates if you or your front passenger do not fasten the seatbelt buckle and the vehicle speed exceeds 6 mph (10 km/h).

Seatbelts

Note: To avoid inadvertent warnings, do not place large objects on the front passenger seat.



This lamp illuminates when you switch the ignition on, identifying the number of seating positions with fastened buckles. It illuminates again when a seating position changes from unfastened to fastened.



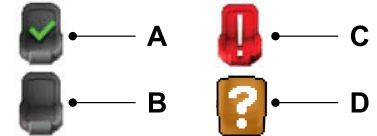
This warning displays if an occupant unfastens the rear seatbelt buckle or it becomes unfastened.

Note: If a rear seat is unoccupied, or an occupant never fastens the seatbelt buckle to begin with, the warning will not display.

Note: Front seating positions appear in this warning display. Warnings for unfastened front seatbelt buckles appear in the initial warning lamp.

Seatbelt Status

To view the seatbelt status, use the information cluster controls on the steering wheel.



- A Seatbelt fastened.
- B Seatbelt not fastened.
- C Seatbelt recently unfastened.
- D Fault.

SEATBELT REMINDER AUDIBLE WARNINGS

A warning tone sounds if you do not fasten your seatbelt when you switch the ignition on. The tone switches off when you fasten your seatbelt or about one minute elapses.

Seatbelts

When the initial warning expires for the driver, more warnings are provided for the driver and front passenger. This warning tone sounds if you or your front passenger do not fasten the seatbelt buckle and the vehicle speed exceeds 6 mph (10 km/h).

This tone also sounds if an occupant unfastens the rear seatbelt buckle or it becomes unfastened.

SWITCHING THE SEATBELT REMINDER ON AND OFF



WARNING: While the system allows you to deactivate it, this system is designed to improve your chances of being safely belted and surviving an accident. We recommend you leave the system activated for yourself and others who may use the vehicle.

Note: *The driver and front passenger warnings switch off independently. When you perform this procedure for one seating position, do not buckle the other position as this cancels the process.*

Read Steps 1 - 4 before proceeding with the programming procedure.

Make sure that:

- You set the parking brake.
 - The transmission is in park (P).
 - The ignition is off.
 - You close all vehicle doors.
 - You unfasten the driver and front passenger seatbelts.
1. Switch the ignition on. Do not start the engine.
 2. Wait about one minute until the seatbelt warning light switches off. After Step 2, wait an additional five seconds before proceeding with Step 3. Once you start Step 3, you must complete the procedure within 30 seconds.
 3. For the seating position you are switching off, fasten then unfasten the seatbelt three times at a moderate speed, ending in the unfastened state. After Step 3, the seatbelt warning light switches on.

4. When the seatbelt warning light is on, fasten then unfasten the seatbelt. After Step 4, the seatbelt warning light flashes for confirmation.

This switches the feature off for that seating position if it is currently on.

This switches the feature on for that seating position if it is currently off.

CHECKING THE SEATBELTS

Check the seatbelts and child restraints periodically to make sure they work properly and are not damaged. Make sure there are no nicks, tears or cuts. Replace if necessary.

Check the following seatbelt assemblies after a crash.

- Retractors.
- Buckles.
- Front seatbelt buckle assemblies.
- Shoulder belt height adjusters.
- Shoulder belt guide on seat backrest.
- Child restraint LATCH and tether anchors.
- Attaching hardware.

Seatbelts

Read the child restraint manufacturer's instructions for additional inspection and maintenance information specific to the child restraint.

We recommend that all seatbelt assemblies in use in vehicles involved in a crash be replaced. However, if the crash was minor and an authorized dealer finds that the belts do not show damage and continue to operate properly, they do not need to be replaced. Seatbelt assemblies not in use during a crash should also be checked and replaced if either damage or improper operation is noted.

Properly care for seatbelts. See **Cleaning Seatbelts** (page 456).

SEATBELT EXTENSIONS



WARNING: Persons who fit into the vehicle's seatbelt should not use an extension. Unnecessary use could result in serious personal injury in the event of a crash.



WARNING: Only use extensions provided free of charge by our dealers. The dealer will provide an extension designed specifically for this vehicle, model year and seating position. The use of an extension intended for another vehicle, model year or seating position may not offer you the full protection of your vehicle's seatbelt restraint system.



WARNING: Never use seatbelt extensions to install child restraints.



WARNING: Do not use extensions to change the way the seatbelt fits across the torso, over the lap or to make the seatbelt buckle easier to reach.

If, because of body size or driving position, it is not possible to properly fasten the seatbelt over your lap and shoulder, an extension that is compatible with the seatbelts is available free of charge from our dealers. Only use our seatbelt extensions made by the original equipment seatbelt manufacturer with our seatbelts. Ask your authorized dealer if your extension is compatible with your vehicle restraint system.

WHAT IS THE PERSONAL SAFETY SYSTEM

An advanced safety system that protects occupants in frontal crashes.

HOW DOES THE PERSONAL SAFETY SYSTEM WORK

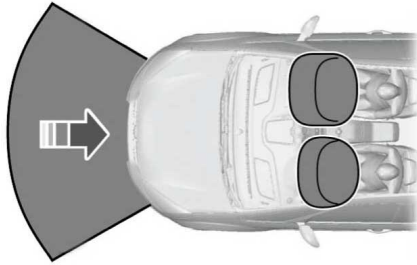
This system provides an improved level of frontal crash protection to front seat occupants and is designed to reduce the risk of airbag-related injuries. The system analyzes occupant conditions and crash severity before activating the appropriate safety devices. During a crash, the restraints control module may deploy the seatbelt pretensioners, and one or both stages of the dual-stage airbags based on crash severity and occupant conditions.

PERSONAL SAFETY SYSTEM COMPONENTS

- Driver and passenger dual-stage airbag supplemental restraints.
- Front seat outermost seatbelts with pretensioners, energy management retractors and seatbelt usage sensors.
- Driver seat position sensor.
- Passenger seat position sensor.
- Front passenger sensing system.
- Passenger airbag off and on indicators.
- Front crash severity sensors.
- Restraints control module with impact and safing sensors.
- Restraint system warning light and tone.
- The electrical wiring for the airbags, crash sensors, seatbelt pretensioners, front seatbelt usage sensors, front passenger sensing system and indicator lights.

Airbags

HOW DO THE FRONT AIRBAGS WORK



The driver and front passenger airbags deploy during significant frontal and near frontal crashes.

The driver and passenger front airbag system consists of:

- Driver and passenger airbag modules.
- Front passenger sensing system.
- Crash sensors and monitoring system with readiness indicator. See **Crash Sensors and Airbag Indicator** (page 73).

The airbags are a supplemental restraint system and are designed to work with the seatbelts to help protect the driver and right front passenger from certain upper body injuries. Airbags do not inflate slowly; there is a risk of injury from a deploying airbag.

Note: *You will hear a loud bang and see a cloud of harmless powdery residue if an airbag deploys. This is normal.*

The airbags inflate and deflate rapidly upon activation. After airbag deployment, it is normal to notice a smoke-like, powdery residue or smell the burnt propellant. This may consist of cornstarch, talcum powder (to lubricate the bag) or sodium compounds (for example, baking soda) that result from the combustion process that inflates the airbag. Small amounts of sodium hydroxide may be present which may irritate the skin and eyes, but none of the residue is toxic.

Contact with a deploying airbag may cause abrasions or swelling. Temporary hearing loss is also a possibility as a result of the noise associated with a deploying airbag.

Because airbags must inflate rapidly and with considerable force, there is the risk of death or serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of airbag deployment. Thus, it is extremely important that occupants be properly restrained as far away from the airbag module as possible while maintaining vehicle control.

Routine maintenance of the airbags is not required.

HOW DO THE SIDE AIRBAGS WORK



WARNING: Do not place objects or mount equipment on or near the airbag cover, on the side of the front or rear seatbacks, or in areas that may come into contact with a deploying airbag. Failure to follow these instructions may increase the risk of personal injury in the event of a crash.

Airbags



WARNING: Accessory seat covers not released by Ford Motor Company could prevent the deployment of the airbags and increase the risk of injuries in a crash.



WARNING: Do not lean your head on the door. The side airbag could injure you as it deploys from the side of the seatback.



The system consists of:

- A label or embossed side panel indicating that there are side airbags in your vehicle.
- Side airbags inside the driver and front passenger seat backrests.
- Crash sensors and monitoring system with readiness indicator. See **Crash Sensors and Airbag Indicator** (page 73).

HOW DO THE KNEE AIRBAGS WORK



WARNING: Close the glove box door when your vehicle is moving. Failure to follow this instruction could reduce the effectiveness of the passenger knee airbag and increase the risk of injury in a crash.

A driver knee airbag is under or within the instrument panel. A passenger knee airbag is within or under the glove compartment. During a crash, the restraints control module may activate the driver and passenger knee airbags based on crash severity and occupant conditions. Under certain crash and occupant conditions, the driver and passenger knee airbag may deploy but the front airbags may not activate. As with front and side airbags, it is important to be properly seated and restrained to reduce the risk of death or serious injury.

Airbags



Make sure the knee airbags are operating properly. See **Crash Sensors and Airbag Indicator** (page 73).

HOW DOES THE SAFETY CANOPY™ WORK



WARNING: Do not place objects or mount equipment on or near the headliner at the siderail that may come into contact with a deploying curtain airbag. Failure to follow these instructions may increase the risk of personal injury in the event of a crash.

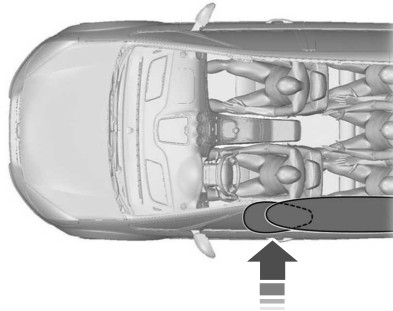


WARNING: Do not lean your head on the door. The curtain airbag could injure you as it deploys from the headliner.



WARNING: To reduce risk of injury, do not obstruct or place objects in the deployment path of the airbag.

The Safety Canopy deploys during significant side crashes or when a certain likelihood of a rollover event is detected by the rollover sensor. The Safety Canopy is mounted to the roof side-rail sheet metal, behind the headliner, above each row of seats. In certain sideways crashes or rollover events, the Safety Canopy will be activated, regardless of which seats are occupied. The Safety Canopy inflates between the side window area and occupants to further enhance protection provided in side impact crashes and rollover events.



The system consists of the following:

- Safety Canopy curtain airbags above the trim panels over the front and rear side windows identified by a label or wording on the headliner or roof-pillar trim.
- A flexible headliner which opens above the side doors to allow air curtain deployment





• Crash sensors and monitoring system with a readiness indicator. See **Crash Sensors and Airbag Indicator** (page 73).


Properly restrain children 12 years old and under in the rear seats. The Safety Canopy will not interfere with children restrained using a properly installed child or booster seat because it is designed to inflate downward from the headliner above the doors along the side window opening.


Airbags


AIRBAG PRECAUTIONS


 **WARNING:** Airbags do not inflate slowly or gently, and the risk of injury from a deploying airbag is the greatest close to the trim covering the airbag module.


 **WARNING:** All occupants of your vehicle, including the driver, should always properly wear their seatbelts, even when an airbag supplemental restraint system is provided. Failure to properly wear your seatbelt could seriously increase the risk of injury or death.


 **WARNING:** Properly secure children 12 years old and under in a rear seating position whenever possible. If you are unable to properly secure all children in a rear seating position, properly secure the largest child on the front seat. If you must use a forward facing child restraint on the front seat, move the seat as far back as possible. Failure to follow these instructions could result in personal injury or death.


 **WARNING:** Do not place your arms on the airbag cover or through the steering wheel. Failure to follow this instruction could result in personal injury.


 **WARNING:** Keep the areas in front of the airbags free from obstruction. Do not affix anything to or over the airbag covers. Objects could become projectiles during airbag deployment. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** To reduce risk of injury, do not obstruct or place objects in the deployment path of the airbag.

 **WARNING:** Do not place a rearward facing child restraint in front of an active airbag. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** Do not attempt to service, repair, or modify the supplementary restraint system or associated components. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** Several airbag system components get hot after inflation. To reduce the risk of injury, do not touch them after inflation.

 **WARNING:** If a supplementary restraint system component has deployed, it will not function again. Have the system and associated components inspected as soon as possible. Failure to follow this instruction could result in personal injury or death.

Airbags

PROPERLY ADJUSTING THE DRIVER AND FRONT PASSENGER SEATS



WARNING: National Highway Traffic Safety Administration (NHTSA) recommends a minimum distance of at least 10 in (25 cm) between an occupant's chest and the driver airbag module.

To properly position yourself away from the airbag:

- Move your seat to the rear as far as you can while still reaching the pedals comfortably.
- Recline the seat slightly one or two degrees from the upright position.

After all occupants have adjusted their seats and put on seatbelts, it is very important that they continue to sit properly. Properly seated occupants sit upright, lean against the seat backrest, and center themselves on the seat cushion, with their feet comfortably extended on the floor. Sitting improperly can increase

the chance of injury in a crash event. For example, if an occupant slouches, lies down, turns sideways, sits forward, leans forward or sideways, or puts one or both feet up, the chance of injury during a crash greatly increases.

CHILDREN AND AIRBAGS



WARNING: Do not place a rearward facing child restraint in front of an active airbag. Failure to follow this instruction could result in personal injury or death.



Children must always be properly restrained. Accident statistics suggest that children are safer when properly restrained in the rear seating positions than in the front seating position. Failure to follow these instructions may increase the risk of injury in a crash.

FRONT PASSENGER SENSING SYSTEM

WHAT IS THE FRONT PASSENGER SENSING SYSTEM

This system detects a properly seated occupant and determines if the front passenger airbag should be enabled.

HOW DOES THE FRONT PASSENGER SENSING SYSTEM WORK

The system uses a passenger airbag status indicator which illuminates indicating that the front passenger frontal airbag is either enabled or disabled.

Airbags

Note: When you first switch the ignition on, the passenger airbag status indicator off and on lamps illuminate for a short period to confirm they are functional.



The indicator lamps are in the overhead console.

The front passenger sensing system is designed to disable the front passenger frontal airbag under these conditions:

- The front passenger seat is unoccupied.
- The system determines an infant is present in a child restraint.
- A passenger takes their weight off of the seat for a period of time.
- If there is a problem with the airbag system or the passenger sensing system.

Even with this technology, parents are strongly encouraged to always properly restrain children in the rear seat.

- When the front passenger sensing system disables the front passenger frontal airbag, the passenger airbag status indicator illuminates the off lamp.
- If you have installed the child restraint and the passenger airbag status indicator illuminates the on lamp, switch your vehicle off, remove the child restraint from your vehicle and reinstall the restraint following the child restraint manufacturer's instructions.

The front passenger sensing system works with sensors that are part of the front passenger seat and seatbelt. The sensors are designed to detect the presence of a properly seated occupant and determine if the front passenger frontal airbag should be enabled.

- When the front passenger sensing system enables the front passenger frontal airbag, the passenger airbag status indicator illuminates the on lamp.

If a person of adult size is sitting in the front passenger seat, but the passenger airbag status indicator off lamp is illuminated, it is possible that the person is not sitting properly in the seat. If this happens:

- Switch your vehicle off and ask the person to place the seat backrest in an upright position.
- Have the person sit upright in the seat, centered on the seat cushion, with the person's legs comfortably extended.
- Restart your vehicle and have the person remain in this position for about two minutes. This allows the system to detect that person and enable the passenger frontal airbag.
- If the indicator off lamp remains illuminated even after this, you should advise the person to ride in the rear seat.

After all occupants have adjusted their seats and put on seatbelts, it is very important that they continue to sit upright, leaning against the seat backrest, and centered on the seat cushion, with their feet comfortably extended on the floor.

Airbags

Sitting improperly can increase the chance of injury in a crash event. For example, if an occupant slouches, lies down, turns sideways, sits forward, leans forward or sideways, or puts one or both feet up, the chance of injury during a crash greatly increases.

If you think that the state of the passenger airbag status indicator lamp is incorrect, check for the following:

- Objects lodged underneath the seat.
- Objects between the seat cushion and the center console.
- Objects hanging off the seat backrest.
- Objects stowed in the seat backrest map pocket.
- Objects placed on the occupant's lap.
- Cargo interference with the seat
- Other passengers pushing or pulling on the seat.
- Rear passenger feet and knees resting or pushing on the seat.

The listed conditions could cause the weight of a properly seated occupant to be incorrectly interpreted by the front passenger sensing system. The person in the front passenger seat could appear heavier or lighter due to the conditions listed.



Make sure the front passenger sensing system is operating properly. See **Crash Sensors and Airbag Indicator** (page 73).

If the airbag readiness light is on, do the following:

- Pull your vehicle over.
- Switch your vehicle off.
- Check for any objects lodged underneath the front passenger seat or cargo interfering with the seat.
- Remove the obstruction if found.
- Restart your vehicle.

- Wait at least two minutes and verify that the airbag readiness light in the instrument cluster is no longer illuminated.
- If the airbag readiness light in the instrument cluster remains illuminated, there may be a problem due to the front passenger sensing system.

Do not attempt to repair or service the system. Take your vehicle in for service immediately.

If it is necessary to modify an advanced front airbag system to accommodate a person with disabilities, contact your Customer Relationship Center. See **Contacting Us** (page 19).

Airbags

FRONT PASSENGER SENSING SYSTEM PRECAUTIONS



WARNING: Sitting improperly, out of position or with the seatback reclined too far can take weight off the seat cushion

and affect the decision of the passenger sensing system, resulting in serious injury or death in the event of a crash. Always sit upright against your seat back, with your feet on the floor.



WARNING: Any alteration or modification to the front passenger seat may affect the performance of the front passenger sensing system. This could seriously increase the risk of injury or death.

FRONT PASSENGER SENSING SYSTEM INDICATORS

Occupant	Passenger Airbag Status Indicator	Passenger Airbag
Empty	OFF: Illuminated	Disabled
	ON: Not Illuminated	
Child	OFF: Illuminated	Disabled
	ON: Not Illuminated	
Adult	OFF: Not Illuminated	Enabled
	ON: Illuminated	

Airbags

CRASH SENSORS AND AIRBAG INDICATOR



WARNING: Modifying or adding equipment to the front of your vehicle could affect the performance of the airbag system, increasing the risk of injury. This includes the hood, bumper system, frame, front body structure, tow hooks, hood pins, push bar and snowplows.

Your vehicle has a collection of crash and occupant sensors. These sensors provide information to the restraints control module which activates the following:

- Front and rear seatbelt pretensioners.
- Driver airbag.
- Passenger airbag.
- Knee airbag(s).
- Seat mounted side airbags.
- Safety Canopy.

Based on the type of crash, the restraints control module deploys the appropriate safety devices.

The restraints control module also monitors the readiness of the above safety devices plus the crash and occupant sensors. The readiness of the safety system is indicated by a warning indicator light in the instrument cluster or by a backup tone if the warning light is not working. Routine maintenance of the airbag is not required.

A difficulty with the system is indicated by one or more of the following:



The readiness light will not illuminate immediately after you switch the ignition on.

- The readiness light either flashes or stays on.
- You hear a series of five tones. The tone pattern repeats periodically until the problem, the light or both are repaired.

If any of these things happen, even intermittently, have the supplemental restraint system serviced immediately. Unless serviced, the system may not function properly in the event of a crash.

The fact that the seatbelt pretensioners or front airbags did not activate for both front seat occupants in a crash does not mean that something is wrong with the system. Rather, it means the restraints control module determined the accident conditions (crash severity, seatbelt usage) were not appropriate to activate these safety devices.

- The front airbags activate only in frontal and near-frontal crashes. Front airbags may activate in rollovers, side impacts or rear impacts if the crash causes sufficient frontal deceleration.
- The seatbelt pretensioners activate in frontal, near-frontal and side crashes, and in rollovers.
- The knee airbag(s) deploy based on crash severity and occupant conditions.

Airbags

- The side airbags inflate in certain side impact crashes or rollover events. Side airbags may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation.
- The Safety Canopy inflates in certain side impact crashes or rollover events. The Safety Canopy may activate in other types of crashes if the vehicle experiences sufficient sideways motion or deformation, or a certain likelihood of rollover.

DISPOSING OF AIRBAGS

Contact your authorized dealer as soon as possible. Airbags must be disposed of by qualified personnel.

Pedestrian Alert System - Plug-In Hybrid Electric Vehicle (PHEV)

WHAT IS THE PEDESTRIAN ALERT SYSTEM

Due to the quiet operation of hybrid and electric vehicles at low speeds, the system creates a subtle sound to alert pedestrians.

The system is on when your vehicle is running and not in park (P). Some sound may be audible in the passenger compartment.

911 Assist

WHAT IS 911 ASSIST

911 Assist is a SYNC system feature that can call for help.

For more information, visit www.owner.ford.com.

HOW DOES 911 ASSIST WORK

If a crash deploys an airbag, excluding knee airbags and rear inflatable seatbelts, or activates the fuel pump shut-off, your vehicle may be able to contact emergency services by dialing 911 through a paired and connected **Bluetooth®** enabled phone.

Not all crashes deploy an airbag or activate the fuel pump shut-off. If a connected cell phone sustains damage or loses its connection to SYNC during a crash, SYNC searches for and tries to connect to a previously paired cell phone. SYNC then attempts to call the emergency services.

Before making the call:

- SYNC provides about 10 seconds to cancel the call. If you fail to cancel the call, SYNC attempts to dial 911.
- SYNC says the following, or a similar message: SYNC will attempt to call 911, to cancel the call, press Cancel on your screen or press and hold the phone button on your steering wheel.

If you do not cancel the call and SYNC makes a successful call a pre-recorded message plays for the 911 operator. The occupants in your vehicle are able to talk with the operator. Be prepared to provide your name, phone number and location immediately because not all 911 systems are capable of receiving this information electronically.

During an emergency call the system transmits vehicle data to the emergency service.

EMERGENCY CALL REQUIREMENTS



WARNING: Do not wait for 911 Assist to make an emergency call if you can do it yourself. Dial emergency services immediately to avoid delayed response time which could increase the risk of serious injury or death after a crash. If you do not hear 911 Assist within five seconds of the crash, the system or phone may be damaged or non-functional.



WARNING: Always place your phone in a secure location in your vehicle so it does not become a projectile or get damaged in a crash. Failure to do so may cause serious injury to someone or damage the phone which could prevent 911 Assist from working properly.



WARNING: Unless the 911 Assist setting is set on before a crash, the system will not dial for help which could delay response time, potentially increasing the risk of serious injury or death after a crash.

911 Assist

- SYNC must be powered and working properly at the time of the incident and throughout feature activation and use.
- The 911 Assist feature must be set on before the incident.
- You must pair and connect a **Bluetooth®** enabled and compatible cell phone to SYNC.
- A connected **Bluetooth®** enabled phone must have the ability to make and maintain an outgoing call at the time of the incident.
- A connected **Bluetooth®** enabled phone must have adequate network coverage, battery power and signal strength.
- The vehicle must have battery power and be located in the U.S., Canada or in a territory in which 911 is the emergency number.

Note: *If any user sets 911 Assist to on or off, that setting applies for all paired phones. If 911 Assist is switched off and the phone is connected to SYNC, an icon displays on the status bar.*

Note: *Every phone operates differently. While SYNC 911 Assist works with most cellular phones, some may have trouble using this feature.*

EMERGENCY CALL LIMITATIONS

The SYNC 911 Assist feature only operates in the U.S., Canada or in a territory in which 911 is the emergency number.

- Your cellular phone or 911 Assist hardware sustains damage in a crash.
- The vehicle's battery or the SYNC system has no power.
- The phone(s) thrown from your vehicle are the ones paired and connected to the system.

Keys and Remote Controls

REMOTE CONTROL LIMITATIONS



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Make sure a valid remote control is within 3 ft (1 m) from the front door handles and rear of vehicle.

The system may not function if:

- The remote control remains stationary for about a minute.
- The vehicle battery has no charge.
- The remote control battery has no charge.
- There is interference causing issues with the remote control frequencies.
- The remote control is too close to metal objects or electronic devices, for example keys or a cell phone.

USING THE REMOTE CONTROL

Use your remote control to access various vehicle systems.

Note: *The buttons on your remote may vary depending on the vehicle region or options.*

Unlock



Press the button to unlock all doors. See **Unlocking and Locking the Doors Using the Remote Control** (page 87).

Lock



Press the button to lock all doors. See **Unlocking and Locking the Doors Using the Remote Control** (page 87).

Remote Start (If Equipped)



Press the button to remote start. See **Remotely Starting and Stopping the Vehicle** (page 165).

Liftgate (If Equipped)



Press the button to open or close the liftgate. See **Opening the Liftgate** (page 100).

Panic Alarm (If Equipped)



Press the button to sound the panic alarm. See **Sounding the Panic Alarm** (page 79).

Keys and Remote Controls

REMOVING THE KEY BLADE



Push the release button on your passive key and pull the key blade out.

SOUNDING THE PANIC ALARM



Press the button to sound the panic alarm. Press the button again or switch the ignition on to turn it off.

Note: *The panic alarm only operates when the ignition is off.*

LOCATING YOUR VEHICLE



Press the lock button twice within three seconds. The turn signal lamps flash. We recommend you use this method to locate your vehicle.

CHANGING THE REMOTE CONTROL BATTERY



WARNING: Keep batteries away from children to prevent ingestion. Failure to follow this instruction could result in personal injury or death. If ingested, immediately seek medical attention.



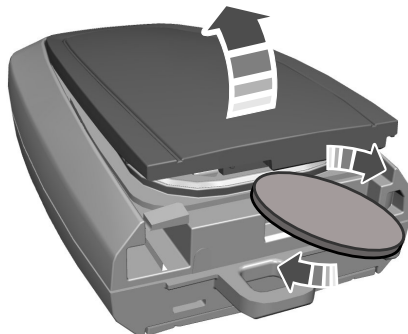
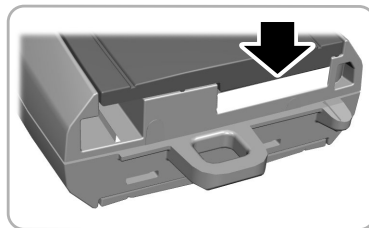
WARNING: If the battery compartment does not securely close, stop using the remote control and replace it as soon as possible. In the meantime, keep the remote control away from children. Failure to follow this instruction could result in personal injury or death.

The remote control uses one coin-type 3-volt lithium battery CR2450 or equivalent.

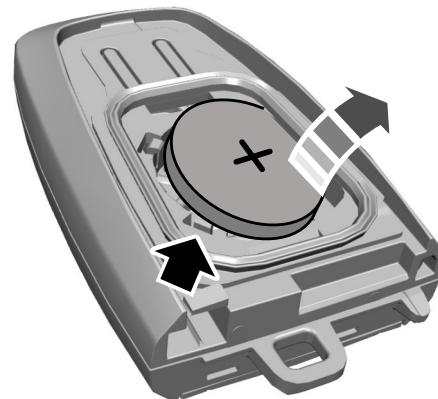
Keys and Remote Controls



1. Push the release button and pull the key blade out.



2. Twist a thin coin under the tab hidden behind the key blade head to remove the battery cover.



3. Insert a screwdriver, and carefully remove the battery.
4. Install a new battery with the + facing upward.
5. Reinstall the battery housing cover onto the transmitter and install the key blade.

Keys and Remote Controls



Dispose of old batteries in an environmentally friendly way. Seek advice from your local authority about recycling old batteries.

Note: Do not wipe off any grease on the battery terminals or on the back surface of the circuit board.

Note: Replacing the battery does not erase the programmed key from your vehicle. The remote control should operate normally.

REPLACING A LOST KEY OR REMOTE CONTROL

You can purchase replacement keys or remote controls from an authorized dealer. Authorized dealers can program remote controls for your vehicle.

PROGRAMMING THE REMOTE CONTROL

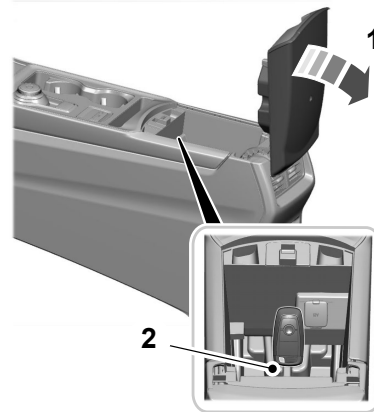
Note: You can program a maximum of four remote controls to your vehicle.

Note: If your programmed remote controls are lost or stolen and you do not have an extra coded remote, you need to have your vehicle towed to an authorized dealer. Store an extra programmed remote away from your vehicle in a safe place to help prevent any inconvenience. Contact an authorized dealer to purchase additional spare or replacement remotes.

You must have two previously programmed remote controls inside your vehicle and the new unprogrammed remote controls readily accessible. Contact an authorized dealer to have the spare remote control programmed if two previously programmed remotes are not available. Make sure that your vehicle is off before beginning this procedure. Make sure that you close all the doors before beginning and that they remain closed throughout the procedure. Perform all steps within 30 seconds of starting the sequence. Stop and wait for at least one minute before starting again if you perform any steps out of sequence.

Read and understand the entire procedure before you begin.

Programming Backup Location



1. Open the center console lid (1).
2. Place the first programmed remote in the backup slot inside the center console (2), with your foot off the brake pedal press and release the push button ignition switch.

Keys and Remote Controls

3. Wait a few seconds and then press and release the push button ignition switch again.

4. Remove the remote control.

5. Within 10 seconds, place a second programmed remote control in the backup slot. Press and release the push button ignition switch.
6. Wait a few seconds and then press and release the push button ignition switch again. Keep the ignition on for a few seconds, but no more than 10 seconds.

7. Remove the remote control.

8. Place the unprogrammed remote control in the backup slot and press and release the push button ignition switch.

Programming is now complete. With your foot on the brake pedal press the push button ignition switch to verify the remote control functions operate and your vehicle starts with the new remote control.

If programming was not successful, wait 10 seconds and repeat Steps 1 through 7. If you are still unsuccessful, contact an authorized dealer to program remote controls for your vehicle.

KEYS AND REMOTE CONTROLS – TROUBLESHOOTING

KEYS AND REMOTE CONTROLS – INFORMATION MESSAGES

Message	Action
Key Battery Low Replace Soon	Replace remote control battery.

Phone as a Key (If Equipped)

WHAT IS PHONE AS A KEY

Phone as a Key allows you to use your phone in place of a passive key.

You can use your phone for the following functions:

- Remote locking and unlocking.
- Passive entry and exit.
- Passive start and drive the vehicle.
- Remote start.
- Memory function recall.

PHONE AS A KEY LIMITATIONS

Limitations can vary based on the make and model of your phone, phone location and physical obstructions.

The following items could impact Phone as a Key performance or prevent functionality in some cases:

- The typical operating range for Phone as a Key is 131 ft (40 m).

- Your **Bluetooth®** connection is not enabled, is disrupted, or out of range.
- Your Phone as a Key is not active or enabled on at least one phone.
- Your vehicle battery has depleted.
- Your phone battery has depleted.
- Interference from other devices using radio frequencies or physical obstructions.
- Your phone is too close to metal objects or other electronic devices.

Note: Do not leave a duplicate coded key in the vehicle. Always take your keys and phone and lock all doors when leaving the vehicle.

PROGRAMMING YOUR PHONE

To program your smartphone as phone as a key:

1. Visit your device's app store to download the Lincoln Way app.
2. Create a new account or sign in to an existing account on the Lincoln Way app.

3. Add the vehicle identification number to your account and follow the prompts in the Lincoln Way app to complete the Sync Connect Authorization process.
4. After the authorization is complete, you can set up phone as a key following the prompts in the Lincoln Way app.
5. After phone as a key is set up, you can set up the backup start passcode by following the prompts on your touchscreen.

Note: Keep your new backup start passcode with you in case of an emergency.

Resetting Phone as a Key

1. Press **Settings** on the touchscreen.
2. Press **General**.
3. Press **Reset**.
4. Press the app connect reset option.
5. Press **Phone as a Key Reset**.
6. Confirm you would like to continue with erasing all phone as a key, keys and backup start passcodes.
7. Press **Continue**.

Phone as a Key (If Equipped)

8. Confirm you are aware you are de-authorizing all authorized users and Lincoln Way Connect settings.
9. Press **Continue**.

USING THE VALET MODE

Classic Valet Mode

Enabling Valet Mode

Make sure the remote control is in your vehicle.

1. Press **Settings** on the touchscreen.
2. Press **Valet Mode**.
3. Enter a four digit code to lock the touchscreen.
4. Re-enter the same four digit code to complete enabling valet mode.

Disabling Valet Mode

1. Press **Exit Valet Mode**.
2. Enter your four digit code to disable valet mode and unlock your touchscreen.

Enhanced Valet Mode

Enabling Valet Mode

Have your backup start passcode completely set up before using valet mode. See **Programming Your Phone** (page 83).

Note: *If your vehicle detects a remote control, the system defaults to classic valet mode.*

1. Press **Settings** on the touchscreen.
2. Press **Valet Mode**.

Note: *If the system detects a valid phone as a key, a valet passcode displays in both the touchscreen and mobile app.*

Note: *If the system does not detect a valid phone as a key, it prompts you to enter your backup start passcode on the touchscreen. Once validated, a valet passcode displays on the touchscreen.*

3. Provide the valet the first five digits of the valet passcode to enter on the keyless entry keypad to unlock your vehicle.

4. Provide the valet the eight-digit valet passcode to enter on the touchscreen to start and drive your vehicle.

Disabling Valet Mode

1. Press **Exit Valet Mode**.

Note: *If the system detects an authorized phone as a key, valet mode disables.*

Note: *If the system does not detect a valid phone as a key, it prompts you to enter your backup start passcode. Once validated, valet mode disables.*

USING THE BACKUP START PASSCODE

Make sure you have phone as a key active on at least one phone to use the previously created backup start passcode. See **Programming Your Phone** (page 83).

Phone as a Key (If Equipped)

1. Press the brake pedal and the push button ignition switch. If the system does not detect a valid phone as a key or remote control, a message appears on the touchscreen and the system prompts you for your backup start passcode.

Note: *The touchscreen times out after 30 seconds with no interaction.*

Note: *If the backup start passcode screen does not appear, press the brake pedal and push button ignition switch again.*

2. Use the touchscreen to enter your backup start passcode.
3. After entering your backup start passcode, press Enter within 30 seconds.
4. Once the system validates the backup start passcode, a message alerts you to start your vehicle.
5. Press the brake pedal and the push button ignition switch within 20 seconds to start the vehicle.
6. If your vehicle does not start, repeat steps 1-5.

System Lockout

The system locks after five combined incorrect attempts of the following:

- Entering a backup start passcode.
- Resetting a current passcode.
- Entering a valet mode passcode.

Note: *The system remains locked for five minutes. After five minutes the system allows codes to be entered again.*

PHONE AS A KEY – TROUBLESHOOTING

PHONE AS A KEY – FREQUENTLY ASKED QUESTIONS

How can I tell if my vehicle has phone as a key?

- The touchscreen shows the phone as a key reset option.
- A control button appears on the home screen of the Lincoln Way app if you have registered your vehicle through the Lincoln Way app.

What happens if I cannot unlock the vehicle with phone as a key?

- Attempt to move your phone closer to the vehicle.
- Check that the Lincoln Way app is still running and that the phone as a key control screen shows connected. If the phone is connected, attempt to press the remote unlock button in the Lincoln Way app. If the phone is not connected or the remote unlock button does not work in the Lincoln Way app, attempt to force close and restart the app.

Phone as a Key (If Equipped)

Why do I get a No Key Detected message in the instrument cluster display when I am using phone as a key and my phone is in the car?

- Your phone's Bluetooth connection has been disrupted or is not connected. Try reconnecting your phone's Bluetooth connection.
- Move the phone closer to the center of the vehicle near the cup holder or center console.
- Verify your phone as a key is still active, enabled and has not been revoked.

What do I do if my phone is lost, damaged or the battery has depleted?

- Use the backup start passcode that you created. See **Using the Backup Start Passcode** (page 84).

How many phones can I use for phone as a key?

- You can program and activate up to four phones with phone as a key to your vehicle.

How does a valet drive my car if I only use my phone as a key?

- Have the valet use the temporary valet passcode that you created. See **Using the Valet Mode** (page 84).

I uninstalled my Lincoln Way app and reinstalled it. Why am I not able to get a new phone as a key?

- Remove the phone as a key that was previously associated with your phone.
- Reset phone as a key from your vehicle, and then request a new phone as a key. See **Programming Your Phone** (page 83).

Why can I not remotely start the vehicle with my phone as a key?

- Using the Lincoln Way app, verify your phone as a key setup is complete and enabled via Bluetooth connection on at least one phone. If Bluetooth has connected but phone as a key setup is not complete, complete the setup of your phone as a key as prompted from the Lincoln Way app. See **Programming Your Phone** (page 83).

PHONE AS A KEY VIDEOS

[Lincoln Phone As A Key Video Link](#)

[Phone As A Key: Valet Mode Video Link](#)

Doors and Locks

OPERATING THE DOORS FROM OUTSIDE YOUR VEHICLE

UNLOCKING AND LOCKING THE DOORS USING THE REMOTE CONTROL

You can only use the remote control when your vehicle is stationary.

Unlocking the Doors



Press the button to unlock all doors. One long flash of the turn signal lamps confirms that your vehicle has unlocked.

One-Stage Unlocking



Press the button to unlock all doors.

Two-Stage Unlocking (If Equipped)



Press the button to unlock the driver's door. Press the button again within three seconds to unlock all doors.

Locking the Doors

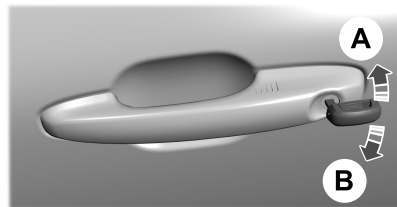


Press the button to lock all doors. One short flash of the turn signal lamps confirms your vehicle is locked.

Note: For more information on operating the doors from outside your vehicle See **Keyless Entry** (page 92).

UNLOCKING AND LOCKING THE DOORS USING THE KEY BLADE

If there is a power door lock fault, use the key blade to lock and unlock the driver door.

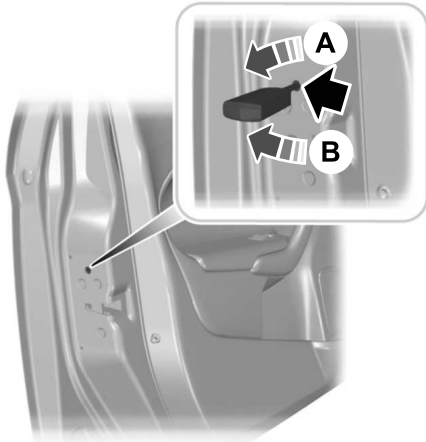


- A Lock.
- B Unlock.

INDIVIDUALLY UNLOCKING AND LOCKING THE DOORS USING THE KEY BLADE

If there is a power door lock fault you can use the key blade to lock and unlock the doors.

Doors and Locks



- A Lock.
- B Unlock.

OPERATING THE DOORS FROM INSIDE YOUR VEHICLE

UNLOCKING AND LOCKING THE DOORS USING THE CENTRAL LOCKING

The power door lock control is on the front doors.



Press the button to unlock all doors.



Press the button to lock all doors.

Note: The central locking only operates if the front doors are fully closed.

OPENING THE DOORS FROM INSIDE YOUR VEHICLE

Pull the interior door handle twice to unlock and open a rear door. The first pull unlocks the door and the second pull opens the door.

DOOR LOCK SWITCH INHIBITOR

HOW DOES THE DOOR LOCK SWITCH INHIBITOR WORK

The door lock switch inhibitor is a theft protection feature that prevents someone unlocking the vehicle from inside using the power door lock control switch.

When you lock your vehicle with the remote control, the power door lock control switch does no longer operate after 20 seconds.

Note: You must unlock your vehicle with the remote control, or switch the ignition on, to restore the power door lock control switch function.

AUTOUNLOCK

WHAT IS AUTOUNLOCK

Autounlock is an unlocking feature that unlocks the vehicle doors when your vehicle comes to a stop.

Doors and Locks

AUTOUNLOCK REQUIREMENTS

Autounlock unlocks all the doors when all of the following occur:

- Your vehicle has come to a complete stop and all of the doors are closed.
- You open the driver door within 10 minutes of stopping the vehicle.

SWITCHING AUTOUNLOCK ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Switch **Autounlock** on or off.

AUTOLOCK

WHAT IS AUTOLOCK

Autolock is a locking feature that locks your vehicle doors when you start driving.

AUTOLOCK REQUIREMENTS

Autolock locks all the doors when all of the following occur:

- All doors are closed.
- The ignition is on.
- Your vehicle reaches a speed greater than 12 mph (20 km/h).

MISLOCK

WHAT IS MISLOCK

Mislock is a locking feature that warns you if your vehicle has not locked.

MISLOCK LIMITATIONS

When you press the lock button once, the direction indicators do not flash if:

- Any door or the liftgate is open.
- The hood is open.

When you press the lock button twice within three seconds, the horn sounds if:

- Any door or the liftgate is open.
- The hood is open.

If you switch mislock off, the horn does not sound if you press the lock button on the remote control when a door is open.

SWITCHING MISLOCK ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Switch **Mislock Chirp** on or off.

DOOR LOCK INDICATORS (IF EQUIPPED)

An LED on the power door lock control illuminates when all doors are locked. It remains on for up to five minutes after you switch the ignition off.

Doors and Locks

DOORS AND LOCKS AUDIBLE WARNINGS

Door Ajar Audible Warning

Sounds when a door is not fully closed and your vehicle is moving.

DOORS AND LOCKS – TROUBLESHOOTING

DOORS AND LOCKS – WARNING LAMPS

Door Ajar Warning Lamp



Illuminates when you switch the ignition on and remains on if any door or the hood is open.

DOORS AND LOCKS – INFORMATION MESSAGES

Message	Action
Driver Door Ajar	Displays if a door is open. Fully close the door.
Passenger Door Ajar	
Rear Left Door Ajar	
Rear Right Door Ajar	
Hood Ajar	Displays if a hood is open. Fully close the hood.

DOORS AND LOCKS – FREQUENTLY ASKED QUESTIONS

Can accessories such as steps or handles be used with the latch assembly?

Do not use the door latch assembly to attach any accessory, such as handles or steps, as this can cause damage to your vehicle.

Keyless Entry

KEYLESS ENTRY LIMITATIONS

Make sure your remote control is within 3 ft (1 m) from the front door handles and the tailgate.

The system could not function if:

- The remote control remains stationary for about a minute.
- The vehicle battery has no charge.
- The remote control battery has no charge.
- There is interference causing issues with the remote control frequencies.
- The remote control is too close to metal objects or electronic devices, for example keys or a cell phone.

KEYLESS ENTRY SETTINGS

Switching Keyless Entry On and Off

1. Switch the ignition on.
2. Press **Settings** on the touchscreen.
3. Press **Vehicle Settings**.

4. Press **Locks**.

Reprogramming the Unlocking Function

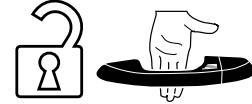
You can enable two-stage unlocking function allowing you to unlock only the driver door when you touch the unlock sensor.

Press and hold both the lock and unlock buttons on the remote control for four seconds to disable or enable two-stage unlocking.

If you program the unlocking function so that only the driver door unlocks, you can unlock all of the other doors from inside your vehicle using the power door lock control. You can unlock individual doors by pulling the interior door handles on those doors.

USING KEYLESS ENTRY

Unlocking the Doors



With the remote control within 3 ft (1 m) of your vehicle, touch the unlock sensor on the back of the door handle for a brief period and then pull on the door handle to unlock, being careful not to touch the lock sensor at the same time or pull on the door handle too quickly. The system requires a brief delay to authenticate the remote control.

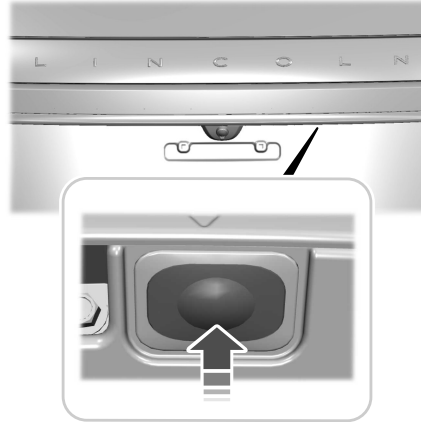
Locking the Doors



Keyless Entry

With your passive key within 3 ft (1 m) of your vehicle, touch the outer door handle lock sensor for approximately one second to lock, being careful not to touch the unlock sensor on the back of the door handle at the same time. After locking, you can immediately pull on the door handle to confirm locking occurred without inadvertently unlocking.

Opening the Liftgate with the Remote Control



Press the exterior liftgate release button inside of the liftgate handle. The liftgate unlocks and opens. See **Opening the Liftgate From Outside Your Vehicle** (page 99).

KEYLESS ENTRY – TROUBLESHOOTING

KEYLESS ENTRY – FREQUENTLY ASKED QUESTIONS

Why does the keyless entry system not function?

If the system does not function it may be limited. See **Keyless Entry Limitations** (page 92). If the system still does not function use the remote control or the key blade to lock and unlock your vehicle.

Why can I not lock my vehicle?

If you electronically lock your vehicle with a rear door or the liftgate open, the system searches for a passive key inside your vehicle after you close the last door. If the system detects a key, all doors unlock indicating that a key is inside. Your vehicle locks if another passive key is within the detection range after you close the last door.

Keyless Entry Keypad

WHAT IS THE KEYLESS ENTRY KEYPAD

The keyless entry keypad allows you to lock and unlock your vehicle using the keypad on the window trim.

KEYLESS ENTRY KEYPAD LIMITATIONS

The system may not function if:

- The vehicle battery has no charge.

LOCATING THE KEYLESS ENTRY KEYPAD

[*SecuriCode Invisible Keypad*](#)

The keypad is near the driver window and illuminates when you touch it.



KEYLESS ENTRY KEYPAD MASTER ACCESS CODE

Unlocking the Doors

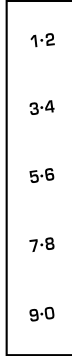
1-2
3-4
5-6
7-8
9-0

Enter the factory-set five-digit code or your personal code. You must press each number within five seconds of each other.

- Press 3-4 within five seconds to unlock all doors.

Keyless Entry Keypad

Locking the Doors



Press and hold **7-8** and **9-0** at the same time with the driver door closed.

Note: *You do not need to enter the code first.*

KEYLESS ENTRY KEYPAD PERSONAL ACCESS CODES

Programming a Personal Entry Code

1. Enter the five-digit master code.
2. Press **1-2** on the keypad within five seconds.
3. Enter your personal five-digit code. You must do this within five seconds of completing Step 2.
4. Press **1-2** on the keypad to save personal code 1.

The doors lock then unlock to confirm that programming was successful.

To program additional personal entry codes, repeat Steps 1 through 3, then for Step 4:

- Press **3-4** to save personal code 2.
- Press **5-6** to save personal code 3.
- Press **7-8** to save personal code 4.
- Press **9-0** to save personal code 5.

If your vehicle comes with SYNC, you can also program the system with a personal entry code.

Hints:

- Do not set a code that uses five of the same number.
- Do not use five numbers in sequential order.
- The five-digit master code works even if you have set your own personal code.

Erasing a Personal Code

1. Enter the five-digit master code.
2. Press and release **1-2** on the keypad within five seconds.
3. Press and hold **1-2** for two seconds. You must do this within five seconds of completing Step 2.

All personal codes erase and only the five-digit master code works.

Anti-Scan Feature

The keypad goes into an anti-scan mode if you enter the wrong code seven times. This mode turns off the keypad for one minute and the keypad lamp flashes.

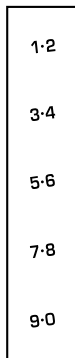
Keyless Entry Keypad

The anti-scan feature turns off after:

- One minute of keypad inactivity.
- You press the unlock button on the remote control.
- You switch the ignition on.
- You unlock your vehicle using keyless entry.

USING THE KEYLESS ENTRY KEYPAD

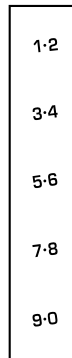
Unlocking the Doors



Enter the factory-set five-digit code or your personal code. You must press each number within five seconds of each other.

- Press 3-4 within five seconds to unlock all doors.

Locking the Doors



Press and hold **7-8** and **9-0** at the same time with the driver door closed.

Note: *You do not need to enter the code first.*

Keyless Entry Keypad

KEYLESS ENTRY KEYPAD – TROUBLESHOOTING

KEYLESS ENTRY KEYPAD – FREQUENTLY ASKED QUESTIONS

Why does the keypad not accept the access code?

If you enter the access code too fast on the keypad, the unlock function may not work. Slowly re-enter the access code.

Why does the keypad not function?

The keypad goes into an anti-scan mode if you enter a wrong code seven times. The anti-scan mode disables the keypad for one minute and the red light flashes.

Easy Entry and Exit

HOW DOES EASY ENTRY AND EXIT WORK

Easy entry and exit moves the driver seat rearward up to 2 in (5 cm) and the steering column up when you switch the ignition off. The driver seat and steering column return to their previous positions when you switch the ignition on.

Note: *Depending on your vehicle, the column may move up and in.*


SWITCHING EASY ENTRY AND EXIT ON AND OFF


1. Using the touchscreen, select **Settings**.
2. Select **Vehicle**.
3. Select **Easy Entry/Exit**.


If you press any adjustment or memory button when in easy exit mode, the system cancels the operation.

Liftgate

LIFTGATE PRECAUTIONS

 **WARNING:** It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a crash, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and seatbelts. Make sure everyone in your vehicle is in a seat and properly using a seatbelt. Failure to follow this warning could result in serious personal injury or death.

 **WARNING:** Make sure that you fully close the liftgate to prevent exhaust fumes from entering your vehicle. If you are unable to fully close the liftgate, open the air vents or the windows to allow fresh air to enter your vehicle. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** Keep keys out of reach of children. Do not allow children to operate or play near an open or moving power liftgate. You should supervise the operation of the power liftgate at all times.

OPENING THE LIFTGATE

OPENING THE LIFTGATE FROM INSIDE YOUR VEHICLE



With the transmission in park (P), press the button on the instrument panel.

Note: Be careful when opening or closing the liftgate in a garage or other enclosed area to avoid damaging the liftgate.

Note: Do not hang anything, for example a bike rack, from the glass or liftgate. This could damage the liftgate and its components.

Note: Do not leave the liftgate open while driving. This could damage the liftgate and its components.

OPENING THE LIFTGATE FROM OUTSIDE YOUR VEHICLE

1. Unlock the liftgate with the remote control or power door unlock control. If a passive key is within 3 ft (1 m) of the liftgate, the liftgate unlocks when you press the liftgate release button.



2. Press and release the liftgate control button.

Liftgate

Note: Allow the power system to open the liftgate. Manually pushing or pulling the liftgate could activate the system's obstacle detection feature and stop the power operation or reverse its direction, replicate a strut failure, or damage mechanical components.

Note: Be careful when opening or closing the liftgate in a garage or other enclosed area to avoid damaging the liftgate.

Note: Do not hang anything, for example a bike rack, from the glass or liftgate. This could damage the liftgate and its components.

Note: Do not leave the liftgate open while driving. This could damage the liftgate and its components.

Switching the Power Liftgate On or Off

You can switch the power liftgate on or off through the vehicle settings on your touchscreen.

When switched off, the liftgate only unlatches and does not power open or close.

OPENING THE LIFTGATE USING THE REMOTE CONTROL



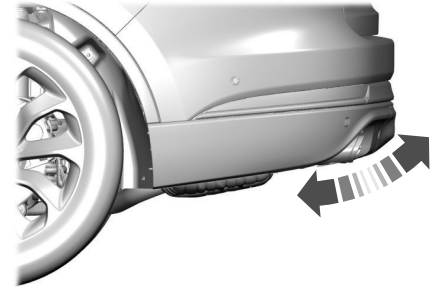
Press the remote control button twice within a few seconds.

OPENING THE HANDS-FREE LIFTGATE

(If Equipped)

Make sure you have the passive key within 3 ft (1 m) of the liftgate.

1. Stand behind your vehicle, and face the liftgate.
2. Move your foot, in a single-kick motion, without pausing, under and away from the rear bumper detection area.



3. The liftgate opens.

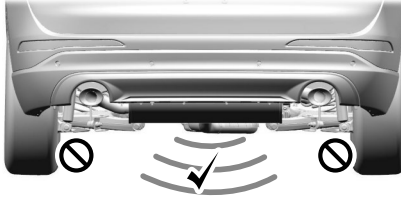
Avoid the following actions when using the hands-free opening feature:

- Making physical contact with the bumper.
- Holding your foot under the bumper.
- Sweeping your foot from side to side, or kicking at an odd angle.

Liftgate

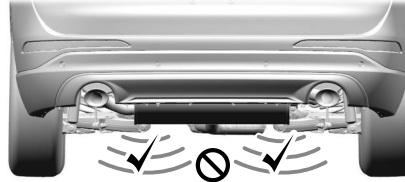
Detection Zones

Vehicles Without a Trailer Hitch



The detection area is in the center of the rear bumper.

Vehicles With a Trailer Hitch



The detection area is on the left-hand side and right-hand side of the hitch, between the exhaust and the hitch.

Note: Allow the power system to open the liftgate. Manually pushing or pulling the liftgate may activate the system's obstacle detection feature and stop the power operation or reverse its direction, replicate a strut failure, or damage mechanical components.

Note: Splashing water may cause the hands-free liftgate to open. Keep the passive key away from the rear bumper detection area when you wash your vehicle.

SETTING THE LIFTGATE OPENING HEIGHT

1. Open the liftgate.
2. Stop the liftgate movement by pressing the control button on the liftgate when it reaches the desired height.

Note: Once the liftgate stops moving, you can manually move it to the desired height.

3. Press and hold the control button on the liftgate until a tone sounds, indicating programming is complete.

Note: You can only use the liftgate control button to program the height.

Note: You cannot program the height if the liftgate position is too low.

4. The power liftgate now opens at the programmed height. To change the programmed height, repeat the steps.

Note: You can fully open the liftgate by manually pushing it upward to the maximum open position if it opens in a lower position.

Liftgate

Note: The system recalls the new programmed height until you reprogram it, even if you disconnect the battery.

CLOSING THE LIFTGATE

CLOSING THE LIFTGATE FROM INSIDE YOUR VEHICLE



WARNING: Make sure all persons are clear of the power liftgate area before using the power liftgate control.



With the transmission in park (P), press the button on the instrument panel.

Note: Make sure that you close the liftgate before operating or moving your vehicle, especially in an enclosure, like a garage or a parking structure. This could damage the liftgate and its components.

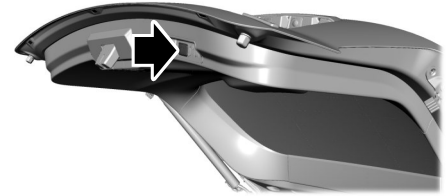
Note: Make sure the area behind your vehicle is free from obstruction and that there is enough room for you to operate the liftgate. Objects too close to your vehicle, for example a wall, garage door or another vehicle may come into contact with the moving liftgate. This could damage the liftgate and its components.

Note: Make sure that you fully close the liftgate to prevent cargo from falling out.

CLOSING THE LIFTGATE FROM OUTSIDE YOUR VEHICLE



WARNING: Make sure all persons are clear of the power liftgate area before using the power liftgate control.



E291351

Press and release the liftgate button.

Note: Make sure that you close the liftgate before operating or moving your vehicle, especially in an enclosure, like a garage or a parking structure. This could damage the liftgate and its components.

Note: Make sure the area behind your vehicle is free from obstruction and that there is enough room for you to operate the liftgate. Objects too close to your vehicle, for example a wall, garage door or another vehicle may come into contact with the moving liftgate. This could damage the liftgate and its components.

Liftgate

Note: Make sure you fully close the liftgate to prevent cargo from falling out.

CLOSING THE LIFTGATE USING THE REMOTE CONTROL



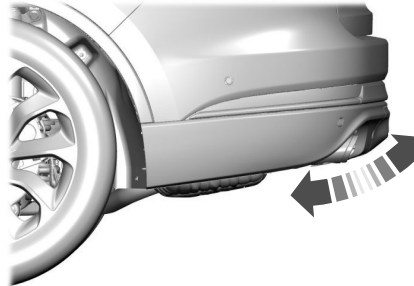
Press the remote control button twice within three seconds.

CLOSING THE HANDS-FREE LIFTGATE

(If Equipped)

Make sure you have the passive key within 3 ft (1 m) of the liftgate.

1. Stand behind your vehicle, and face the liftgate.
2. Move your foot, in a single-kick motion, without pausing, under and away from the rear bumper detection area.



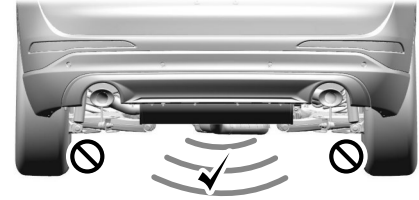
3. The liftgate closes.

Avoid the following actions when using the hands-free opening feature:

- Making physical contact with the bumper.
- Holding your foot under the bumper.
- Sweeping your foot from side to side, or kicking at an odd angle.

Detection Zones

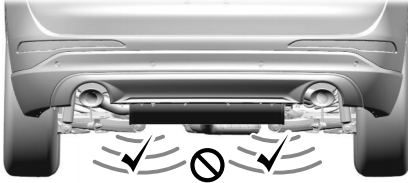
Vehicles Without a Trailer Hitch



The detection area is in the center of the rear bumper.

Liftgate

Vehicles With a Trailer Hitch



The detection area is on the left-hand side and right-hand side of the hitch, between the exhaust and the hitch.

Note: Allow the power system to close the liftgate. Manually pushing or pulling the liftgate may activate the system's obstacle detection feature and stop the power operation or reverse its direction, replicate a strut failure, or damage mechanical components.

Note: Any physical actions that mimic a kicking motion such as splashing water, trailer chains or vacuum hoses may cause the hands-free liftgate to activate. Switch the power liftgate off through your vehicle settings or keep the passive key away from the rear bumper detection area.

STOPPING THE LIFTGATE MOVEMENT

Note: Do not apply sudden excessive force to the liftgate while it is in motion. This could damage the power liftgate and its components.

Note: Selections will vary depending on region or options.

You can stop the liftgate movement by doing any of the following:

- Pressing the liftgate control button on the liftgate.
- Pressing the liftgate control button inside the vehicle.
- Pressing the liftgate button on the remote control twice.

- Pressing the liftgate button on an authorized device.
- Moving your foot under and away from the center rear bumper in a single-kick motion.

LIFTGATE OBSTACLE DETECTION

Closing the Liftgate

The system stops when it detects an obstacle. A tone sounds and the system reverses to open. Once you remove the obstacle, you can power close the liftgate.

Note: To prevent accidental obstacle detection, let the power liftgate close completely before you enter your vehicle.

Opening the Liftgate

The system stops when it detects an obstacle and a tone sounds. Once you remove the obstacle, you can continue to operate the liftgate.

Liftgate

LIFTGATE – TROUBLESHOOTING



Illuminates when the liftgate is not completely closed.

LIFTGATE – WARNING LAMPS

LIFTGATE – INFORMATION MESSAGES

Message	Action
Liftgate Ajar	The liftgate is not completely closed. Close the liftgate.

Liftgate

LIFTGATE – FREQUENTLY ASKED QUESTIONS

Why won't my power liftgate function?

It can happen in freezing conditions or when parking on downhill slopes. Make sure the power liftgate is enabled. Make sure the transmission is in park (P), ensure nothing is obstructing the liftgate path and there is not excessive weight on the liftgate. If there are continued issues, the battery voltage may be low or there may be other system issues. See an authorized dealer.

PASSIVE ANTI-THEFT SYSTEM

WHAT IS THE PASSIVE ANTI-THEFT SYSTEM

The passive anti-theft system prevents someone from starting the vehicle with an incorrectly coded key.

Note: *Do not leave a duplicate coded key in your vehicle. Always take the keys and lock all the doors when leaving your vehicle.*

HOW DOES THE PASSIVE ANTI-THEFT SYSTEM WORK

The passive anti-theft system arms when you switch the ignition off.

It disarms when the ignition is switched on with a correctly coded key.

Note: *The system is not compatible with non-Ford aftermarket remote start systems.*

Note: *Do not leave a duplicate coded key in your vehicle. Always take the keys and lock all doors when leaving your vehicle.*

ARMING THE PASSIVE ANTI-THEFT SYSTEM

The passive anti-theft system arms your vehicle after a short period of time when you switch the power off.

DISARMING THE PASSIVE ANTI-THEFT SYSTEM

The passive anti-theft system disarms when you switch the power on with a correctly coded key.

Note: *You could have difficulty starting the vehicle if you have metallic objects, electronic devices or a second coded key on the same key chain.*

ANTI-THEFT ALARM SYSTEM

WHAT IS THE ANTI-THEFT ALARM SYSTEM

The anti-theft alarm system warns you of an unauthorized entry to your vehicle.

HOW DOES THE ANTI-THEFT ALARM SYSTEM WORK

When armed, the anti-theft alarm is triggered in any of the following ways:

- If someone opens a door, the liftgate or the hood without a correctly coded key or remote control.
- If you turn the power on without a correctly coded key.
- If the interior sensors detect movement inside your vehicle.
- If the inclination sensors detect an attempt to raise your vehicle.
- If someone disconnects the vehicle battery or the battery backup alarm.

If the anti-theft alarm is triggered, the alarm horn sounds for 30 seconds and the direction indicators flash for 5 minutes.

Any further attempts to carry out one of the above sounds the alarm again.

Security

WHAT IS THE PERIMETER ALARM

The perimeter alarm is designed to detect unauthorized access to your vehicle.

WHAT ARE THE INTERIOR SENSORS

(If Equipped)

The interior sensors are designed to detect any movement inside your vehicle.

The interior sensors are in the overhead console.

Note: *Do not cover the interior sensors.*

WHAT ARE THE INCLINATION SENSORS

(If Equipped)

The inclination sensor is designed to detect an attempt to raise your vehicle, for example to remove a wheel or to tow it away.

WHAT IS THE BATTERY BACKUP ALARM

(If Equipped)

The battery backup alarm is an additional alarm sounder that has its own battery. It can detect if the vehicle battery is disconnected to overcome the alarm system.

ARMING THE ANTI-THEFT ALARM SYSTEM

The alarm is ready to arm when your vehicle is switched off.

Lock your vehicle with your remote control to arm the alarm.

DISARMING THE ANTI-THEFT ALARM SYSTEM

Disarm the alarm by performing any of the following actions:

- Unlock the doors or luggage compartment with the remote control.
- Switch your vehicle on or start your vehicle.

ANTI-THEFT ALARM SYSTEM SETTINGS

WHAT ARE THE ALARM SECURITY LEVELS

You can select two levels of alarm security, all sensors and perimeter sensing.

All Sensors

All sensors is the standard setting.

In all sensors, all equipped sensors are on when you arm the alarm.

Note: *Do not arm the alarm with all sensors if passengers, animals or other moving objects are inside your vehicle.*

Perimeter Sensing

In perimeter sensing, the interior sensors are off when you arm the alarm.

All the other equipped sensors activate when you arm the alarm in this mode.

Security

SETTING THE ALARM SECURITY LEVEL

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Alarm System**.
4. Press **Sensor Set**.

5. Press a setting.

WHAT IS ASK ON EXIT

You can choose which level of security you require after you switch the ignition off.

Note: *If you do not choose a setting, the system defaults to all sensors.*

SWITCHING ASK ON EXIT ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle**.
3. Press **Alarm System**.
4. Switch **Ask on Exit** on or off.

SECURITY – TROUBLESHOOTING

SECURITY – INFORMATION MESSAGES

Message	Details
No Key Detected	The system has not detected a correctly coded key.
Starting System Fault	The system has malfunctioned. Have your vehicle checked as soon as possible.
Vehicle Alarm To Stop Alarm, Start Vehicle.	Displays when the alarm has been triggered due to unauthorized entry.
Alarm Announcement	

SECURITY – FREQUENTLY ASKED QUESTIONS

What should I do if there is any potential alarm problem with my vehicle?

Take all remote controls to an authorized dealer if there is any potential alarm problem with your vehicle.

What should I do if the vehicle is unable to start with a correctly coded key?

Have your vehicle checked as soon as possible.

Steering Wheel

ADJUSTING THE STEERING WHEEL - VEHICLES WITH: POWER ADJUSTABLE STEERING COLUMN



WARNING: Do not adjust the steering wheel when your vehicle is moving.

Note: Make sure that you are sitting in the correct position. See **Sitting in the Correct Position** (page 178).



Press the top or bottom of the control to move the steering wheel up or down.

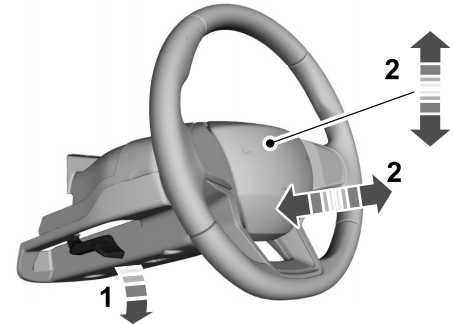
Press the front or rear of the control to move the steering wheel in or out.

ADJUSTING THE STEERING WHEEL - VEHICLES WITH: MANUAL ADJUSTABLE STEERING COLUMN



WARNING: Do not adjust the steering wheel when your vehicle is moving.

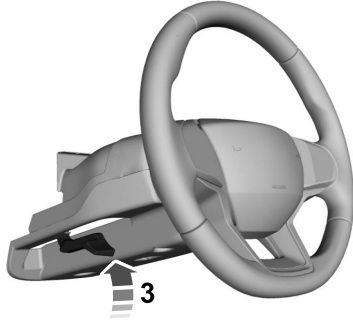
Note: Make sure that you are sitting in the correct position. See **Sitting in the Correct Position** (page 178).



E279960

Steering Wheel

1. Unlock the steering column.
2. Adjust the steering wheel to the desired position.



E279962

3. Lock the steering column.

RESETTING THE STOPPING POSITION - VEHICLES WITH: POWER ADJUSTABLE STEERING COLUMN

Note: *The steering wheel stops when it detects an obstruction. This sets a new stopping position.*

To reset the steering column to its normal stopping position:

1. Confirm there is nothing obstructing the motion of the steering column.
2. Press and hold the steering column control until the steering column stops moving.
3. Press the steering column control again.

Note: *The steering column may start to move again.*

4. When the steering column stops, continue holding the control for a few seconds.
5. Repeat for each direction, as necessary.

HORN



Press on the center of the steering wheel near the horn icon to activate the horn.

SWITCHING THE HEATED STEERING WHEEL ON AND OFF (IF EQUIPPED)



To activate the heated steering wheel, press the button on the climate control unit.

On some vehicles, an indicator on the button illuminates when the heated steering wheel is on.

Note: *A sensor regulates the temperature of the steering wheel.*

Wipers and Washers

WIPERS

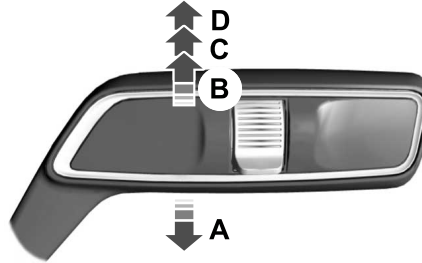
WIPER PRECAUTIONS

Do not operate the wipers on a dry windshield. This could scratch the glass or damage the wiper blades. Use the windshield washers before wiping a dry windshield.

Fully defrost the windshield before you switch the windshield wipers on.

Switch the windshield wipers off before entering a car wash.

SWITCHING WINDSHIELD WIPERS ON AND OFF



- A Single wipe.
- B Intermittent wipe.
- C Normal wipe.
- D High-speed wipe.



Push the lever up or down to operate the windshield wipers.

AUTOWIPERS

WHAT ARE AUTOWIPERS

Autowipers turns on and controls the speed and frequency of the windshield wipers.

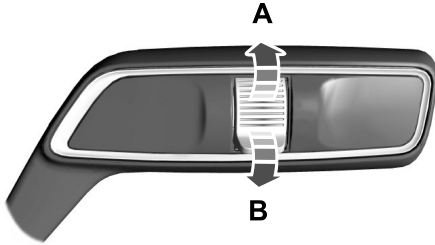
AUTOWIPERS SETTINGS

1. Using the instrument cluster controls on the steering wheel, select **Settings**.
2. Select **Vehicle**.
3. Select **Wipers**.
4. Switch **Rain Sensing** on or off.

Note: When you switch the feature off, the wipers do not operate based on the rain sensor. When you switch on the windshield wipers to the intermittent wipe position with the feature off, the wipers use the wipe speed set by the rotary control.

Wipers and Washers

ADJUSTING THE SENSITIVITY OF THE RAIN SENSOR



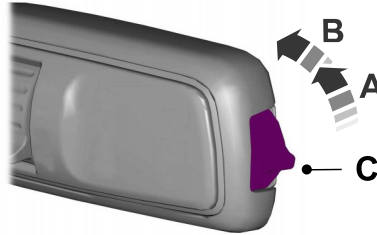
- A High sensitivity.
- B Low sensitivity.

Use the rotary control to set the sensitivity of the rain sensor.

When you select high sensitivity, the wipers operate when the sensor detects a small amount of water on the windshield.

When you select low sensitivity, the wipers operate when the sensor detects a large amount of water on the windshield.

SWITCHING THE REAR WINDOW WIPER ON AND OFF



- A Intermittent wipe.
- B Continuous wipe.
- C Rear window wiper off.

REVERSE WIPE

WHAT IS REVERSE WIPE

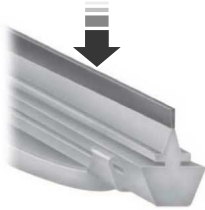
Reverse wipe turns on the rear window wiper when you shift into reverse (R) and the windshield wipers are on.

REVERSE WIPE SETTINGS

1. Using the instrument cluster controls on the steering wheel, select **Settings**.
2. Select **Vehicle**.
3. Select **Wipers**.
4. Switch **Reverse Wiper** on or off.

Wipers and Washers

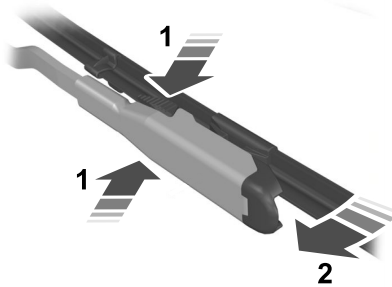
CHECKING THE WIPER BLADES



Run the tip of your fingers over the edge of the blade to check for roughness.

REPLACING THE FRONT WIPER BLADES

Make sure your vehicle is off before beginning this procedure.



1. Lift the wiper arm and then press the wiper blade locking buttons together.

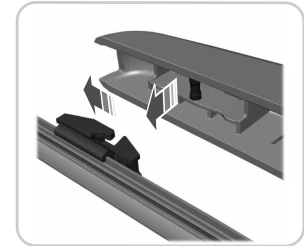
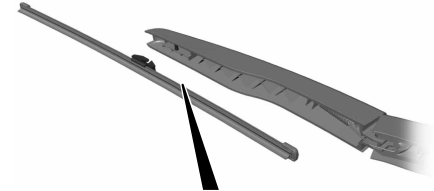
Note: Do not hold the wiper blade to lift the wiper arm.

Note: Make sure that the wiper arm does not spring back against the glass when the wiper blade is not attached.

2. Slightly rotate the wiper blade.
3. Remove the wiper blade.
4. To install, reverse the removal procedure.

Note: Make sure that the wiper blade locks into place.

REPLACING THE REAR WIPER BLADES



1. Lift the wiper arm.

Note: Do not hold the wiper blade to lift the wiper arm.

2. Remove the wiper blade.

Wipers and Washers

Note: Make sure that the wiper arm does not spring back against the glass when the wiper blade is not attached.

3. To install, reverse the removal procedure.

Note: Make sure that the wiper blade locks into place.

WASHERS

WASHER PRECAUTIONS

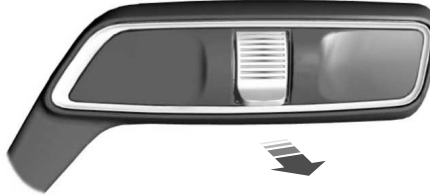


WARNING: If you operate your vehicle in temperatures below 41°F (5°C), use washer fluid with antifreeze protection. Failure to use washer fluid with antifreeze protection in cold weather could result in impaired windshield vision and increase the risk of injury or accident.

Do not operate the washers when the washer reservoir is empty. This could cause the washer pump to overheat.

Keep the outside of the windshield clean. The rain sensor is very sensitive and the wipers may operate if dirt, mist or insects hit the windshield.

USING THE WINDSHIELD WASHER



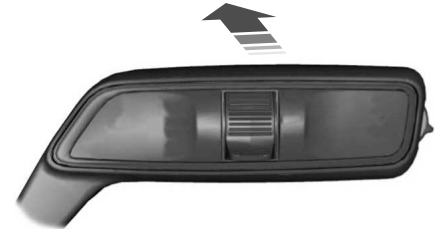
Pull the lever toward you to operate the windshield washer.

Note: A courtesy wipe occurs a short time after the wipers stop to clear any remaining washer fluid when switched on. See **Switching the Courtesy Wipe On and Off** (page 116).

SWITCHING THE COURTESY WIPE ON AND OFF

1. Access the vehicle drawer on the touchscreen.
2. Press **SETTINGS**.
3. Press **Vehicle**.
4. Press **Wipers**.
5. Switch **Courtesy Wipe** on or off.

USING THE REAR WINDOW WASHER

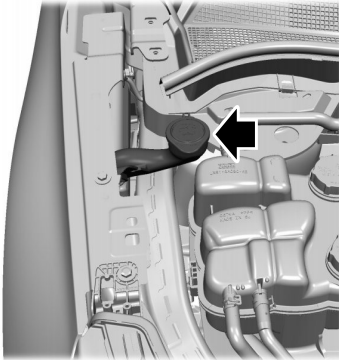


Push the lever away from you to operate the rear window washer.

Wipers and Washers

Note: A courtesy wipe occurs a short time after the wipers stop to clear any remaining washer fluid when switched on. See **Switching the Courtesy Wipe On and Off** (page 116).

ADDING WASHER FLUID



WASHER FLUID SPECIFICATION

See **Washer Fluid Specification** (page 510).

WIPERS AND WASHERS – TROUBLESHOOTING

WIPERS AND WASHERS – WARNING LAMPS



Illuminates when the windshield washer fluid is low.

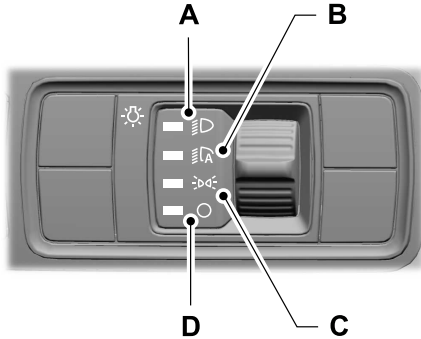
WIPERS AND WASHERS – FREQUENTLY ASKED QUESTIONS

Why are there streaks and smears on the windshield?

The wiper blades could be dirty, worn or damaged. Check the wiper blades. See **Checking the Wiper Blades** (page 115). If the wiper blades are dirty, clean them with washer fluid or water applied with a soft sponge or cloth. If the wiper blades are worn or damaged, install new ones. See **Replacing the Front Wiper Blades** (page 115).

Exterior Lighting

EXTERIOR LIGHTING CONTROL



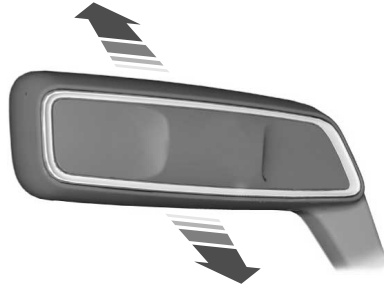
- A Headlamps on.
- B Autolamps on.
- C Parking lamps on.
- D Lamps off.

Press the toggle switch upward or downward to make a selection.

Note: The lighting control defaults to autolamps each time you switch your vehicle on.

HEADLAMPS

USING THE HIGH BEAM HEADLAMPS



Push the lever away from you to switch the high beam on.

Push the lever forward again or pull the lever toward you to switch the high beams off.

Slightly pull the lever toward you and release it to flash the headlamps.

SWITCHING HEADLAMP EXIT DELAY ON AND OFF

To switch headlamp exit delay on, pull the turn signal lever toward you after switching your vehicle off.

To switch headlamp exit delay off, pull the turn signal lever toward you again or switch your vehicle on.

Note: The headlamps turn off after three minutes with any door open or 30 seconds after the last door closes.

HEADLAMP INDICATORS

Lamps On



Illuminates when you switch the low beam headlamps or the parking lamps on.

Headlamp High Beam



Illuminates when you switch the high beam headlamps on.

Exterior Lighting

HEADLAMPS – TROUBLESHOOTING

HEADLAMPS – FREQUENTLY ASKED QUESTIONS

Why is there condensation in the headlamps?

- Headlamps have vents to accommodate normal changes in air pressure. Condensation can be a natural by-product of this design. When moist air enters the lamp assembly through the vents, there is a possibility that condensation can occur when the temperature is cold. When normal condensation occurs, a fine mist can form on the interior of the lens. The fine mist eventually clears and exits through the vents during normal operation.

How much condensation is acceptable?

- The presence of a fine mist, for example no streaks, drip marks or large droplets. A fine mist covers less than 50% of the lens.

How long may it take for the acceptable condensation to be cleared?

- Clearing time may take as long as 48 hours under dry weather conditions.

How much condensation is unacceptable?

- A water puddle inside the lamp. Streaks, drip marks or large droplets present on the interior of the lens.

What should I do if unacceptable condensation is present?

- Have your vehicle checked as soon as possible.

Why do my headlamps turn off when I have them switched on when I switch my vehicle off?

- The battery saver turns the headlamps off after a short period of time after you switch your vehicle off.

AUTOLAMPS

WHAT ARE AUTOLAMPS



WARNING: The system does not relieve you of your responsibility to drive with due care and attention. You may need to override the system if it does not turn the headlamps on in low visibility conditions, for example daytime fog.

Autolamps turn the headlamps on in low light situations or when the windshield wipers operate.

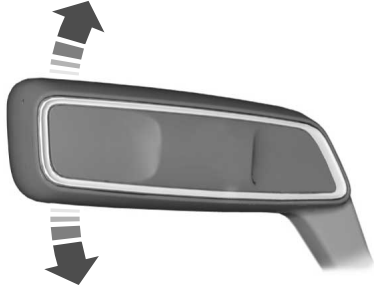
AUTOLAMP SETTINGS

1. Using the instrument cluster controls on the steering wheel, select **Settings**.
2. Select **Vehicle**.
3. Select **Lighting**.
4. Select **Autolamp Delay**.
5. Select a setting and press the **OK** button.

Exterior Lighting

EXTERIOR LAMPS

USING THE TURN SIGNAL LAMPS



Push the lever up or down to switch the turn signal lamps on.

Set the lever to the middle position to switch the turn signal lamps off.

Note: Tap the lever up or down to make the turn signal lamps flash three times.

Turn Signal Lamp Indicator



It flashes when you switch the turn signal lamps on.

Note: An increase in the rate of flashing warns of a failed turn signal lamp.

SWITCHING THE DAYTIME RUNNING LAMPS ON AND OFF - VEHICLES WITH: CONFIGURABLE DAYTIME RUNNING LAMPS



WARNING: The daytime running lamps system does not activate the rear lamps and may not provide adequate lighting during low visibility driving conditions. Make sure you switch the headlamps on, as appropriate, during all low visibility conditions. Failure to do so may result in a crash.

1. Using the instrument cluster controls on the steering wheel, select **Settings**.
2. Select **Vehicle**.
3. Select **Lighting**.

4. Switch **Daytime Running Lights** on or off.

The daytime running lamps turn on when all of the following occur:

- You switch the system on.
- You switch your vehicle on.
- The transmission is not in park (P) for vehicles with automatic transmissions or you release the parking brake for vehicles with manual transmissions.
- The lighting control is in the autolamps position.
- The headlamps are off.

Note: Other lighting control positions do not turn on the daytime running lamps.

Exterior Lighting

SWITCHING THE DAYTIME RUNNING LAMPS ON AND OFF - VEHICLES WITH: DAYTIME RUNNING LAMPS (DRL)



WARNING: The daytime running lamps system does not activate the rear lamps and may not provide adequate lighting during low visibility driving conditions. Make sure you switch the headlamps on, as appropriate, during all low visibility conditions. Failure to do so may result in a crash.

Daytime running lamps are always on unless you switch on the headlamps or your vehicle is in park (P).

SWITCHING WELCOME LIGHTING ON AND OFF

Welcome lighting slowly turns on the exterior lamps when you approach your vehicle with an authenticated device or unlock the doors.

1. Using the instrument cluster controls on the steering wheel, select **Settings**.

2. Select **Vehicle**.
3. Select **Lighting**.
4. Switch **Welcome Lighting** on or off.

EXTERIOR LAMP INDICATORS

Turn Signal Lamp



It flashes when you switch the turn signal lamps on.

Note: An increase in the rate of flashing warns of a failed turn signal lamp.

EXTERIOR LAMPS ON AUDIBLE WARNING

Sounds when you open the driver door and the exterior lamps are on.

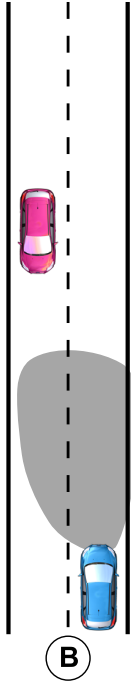
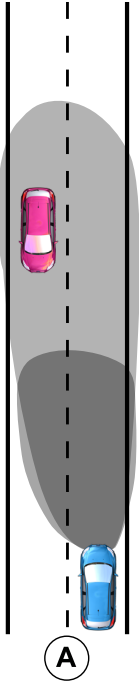
AUTOMATIC HIGH BEAM CONTROL

HOW DOES AUTOMATIC HIGH BEAM CONTROL WORK

Automatic high beam control turns the high beams on if it is dark enough and no other traffic is present. If it detects an approaching vehicle's headlamps or tail lamps, or street lighting ahead, the system turns the high beams off.

A camera sensor, centrally mounted behind the windshield of your vehicle, continuously monitors conditions to turn the high beams on and off.

Exterior Lighting



- A Without automatic high beam control.
- B With automatic high beam control.

AUTOMATIC HIGH BEAM CONTROL PRECAUTIONS

WARNING: The system does not relieve you of your responsibility to drive with due care and attention. You may need to override the system if it does not turn the high beams on or off.

WARNING: The system may not switch the high beams off if the lights of oncoming vehicles are hidden by obstacles, for example guard rails.

WARNING: Do not use the system in poor visibility, for example fog, heavy rain, spray or snow.

WARNING: You may need to override the system when approaching other road users.

WARNING: You may need to override the system during inclement weather.

AUTOMATIC HIGH BEAM CONTROL REQUIREMENTS

The system turns the high beams on if all of the following occur:

- You switch the system on.
- You set the lighting control to the autolamps position.
- The ambient light level is low enough that you require high beams.
- There is no traffic in front of your vehicle.
- The vehicle speed is greater than approximately 25 mph (40 km/h).

Exterior Lighting

AUTOMATIC HIGH BEAM CONTROL LIMITATIONS

The system turns the high beams off if any of the following occur:

- You switch the system off.
- You set the lighting control to any position except autolamps.
- The ambient light level is high enough that you do not require high beams.
- The system detects an approaching vehicle's headlamps or a leading vehicle's tail lamps.
- The system detects severe rain, snow or fog.
- The system detects street lighting.
- The camera has reduced visibility.
- The vehicle speed falls below approximately 19 mph (30 km/h).

SWITCHING AUTOMATIC HIGH BEAM CONTROL ON AND OFF

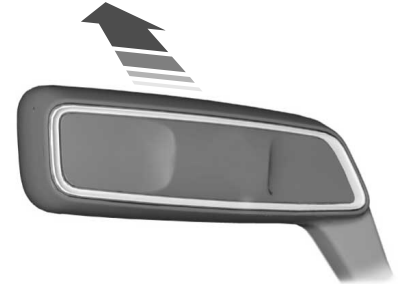
1. Using the instrument cluster controls on the steering wheel, select **Settings**.
2. Select **Vehicle**.
3. Select **Lighting**.
4. Switch **Auto High Beam** on or off.

AUTOMATIC HIGH BEAM CONTROL INDICATORS



Illuminates to confirm when the system is ready to assist.

OVERRIDING AUTOMATIC HIGH BEAM CONTROL



Push the lever away from you to switch the high beam on.

Push the lever away from you again to switch the high beams off.

Push the lever away from you for a third time to switch automatic high beam control back on.

Exterior Lighting

AUTOMATIC HIGH BEAM CONTROL – TROUBLESHOOTING

AUTOMATIC HIGH BEAM CONTROL – INFORMATION MESSAGES

Message	Description
Front Camera Low Visibility Clean Screen	The camera has reduced visibility. Clean the windshield. If the message continues to appear, have your vehicle checked as soon as possible.
Front Camera Temporarily Not Available	The camera has malfunctioned. Wait a short period of time for the camera to cool down. If the message continues to appear, have your vehicle checked as soon as possible.
Front Camera Malfunction Service Required	The camera has malfunctioned. Have your vehicle checked as soon as possible.

Exterior Lighting

ADAPTIVE FRONT LIGHTING

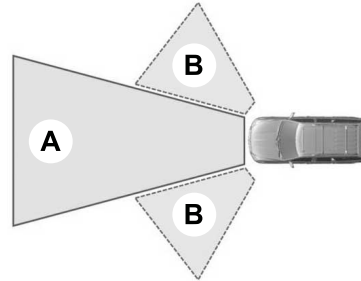
HOW DOES ADAPTIVE FRONT LIGHTING WORK



WARNING: Inspect and replace the windshield wiper blades regularly to make sure the camera sensor has a clear view. The windshield wiper blades must be the correct length.

Speed Dependent Lamps (If Equipped)

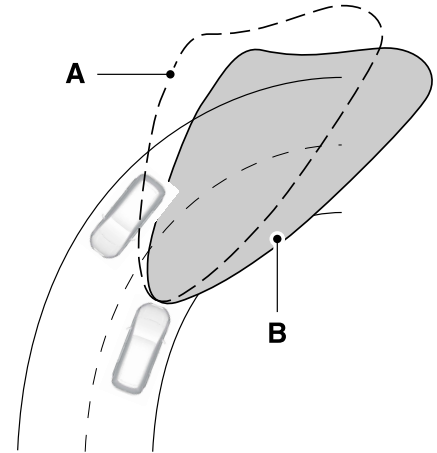
Provides additional light on the road depending on your vehicle speed and steering wheel input.



- A Standard low beam.
- B Additional lighting.

Dynamic Bending Lamps (If Equipped)

Adapts when you are steering around a curve, the front camera detects lane markings indicating a curve or map data indicates a curve.

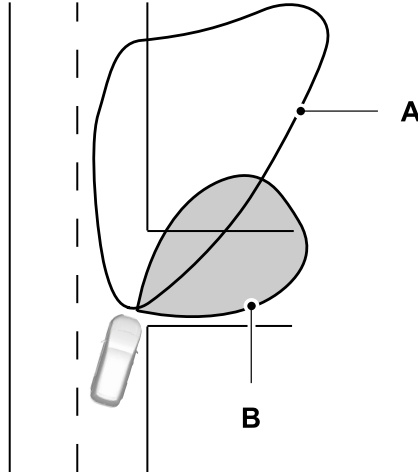


- A Without dynamic bending lamps.
- B With dynamic bending lamps.

Exterior Lighting

Static Bending Lamps (If Equipped)

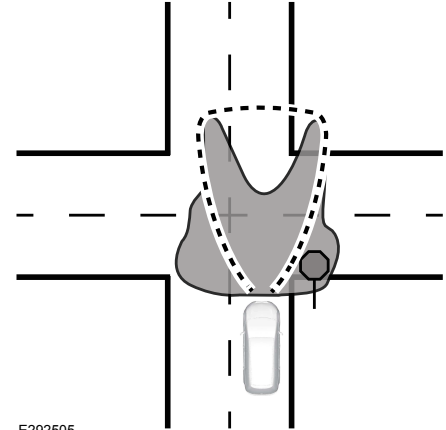
Illuminates the inside of a corner when you are turning the steering wheel or when you switch the turn signal lamps on.



- A Headlamp beam.
- B Static bending lamp beam.

Sign Based Lamps (If Equipped)

Adapts when the front camera detects a traffic sign.



E292505

Note: The camera only detects traffic signs if your vehicle speed is below 31 mph (50 km/h).

Exterior Lighting

SWITCHING ADAPTIVE FRONT LIGHTING ON AND OFF

Set the lighting control to the autolamps position to use adaptive front lighting.

Note: *Other lighting control positions do not turn on adaptive front lighting.*

ADAPTIVE FRONT LIGHTING – TROUBLESHOOTING

ADAPTIVE FRONT LIGHTING – INFORMATION MESSAGES

Message	Description
Front Camera Low Visibility Clean Screen	Displays when the front camera sensor has reduced visibility. Clean the windshield. If the message continues to appear, have your vehicle checked as soon as possible.
Front Camera Temporarily Not Available	Displays if the front camera sensor malfunctions. Wait a short period of time for the sensor to cool down. If the message continues to appear, have your vehicle checked as soon as possible.

Interior Lighting

SWITCHING ALL OF THE INTERIOR LAMPS ON AND OFF

The lamps turn on under the following conditions:

- You open any door.
- You press a button on the remote control.
- You press the all lamps on button on the overhead console.



Press to switch all interior lamps on or off.

SWITCHING THE FRONT INTERIOR LAMPS ON AND OFF



The front interior lamp switches are on the overhead console.

Note: *The position of each button on the overhead console depends on your vehicle.*

Individual Map Lamps



Press to switch the left-hand individual dome lamp on and off.



Press to switch the right-hand individual dome lamp on and off.

SWITCHING THE REAR INTERIOR LAMPS ON AND OFF



The rear interior lamps may be above the rear seat or above the rear windows.



Press to switch the lamps on or off.

Note: *If you switch the rear lamps on through the overhead console, you cannot switch them off with the rear lamp switch.*

Interior Lighting

INTERIOR LAMP FUNCTION

WHAT IS THE INTERIOR LAMP FUNCTION

The interior lamp function switches the courtesy and door lamps on or off.

SWITCHING THE INTERIOR LAMP FUNCTION ON AND OFF



Press to switch the interior lamp function on and off.

Note: *The indicator lamp illuminates amber when the door function is off.*

ADJUSTING THE INSTRUMENT PANEL LIGHTING BRIGHTNESS

The instrument lighting dimmer buttons are on the lighting control.



Repeatedly press one of the buttons to adjust the brightness.



AMBIENT LIGHTING

SWITCHING AMBIENT LIGHTING ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Ambient Light**.
4. Press a color.

ADJUSTING AMBIENT LIGHTING

Drag the selected color up or down.

INTERIOR LIGHTING – TROUBLESHOOTING

INTERIOR LIGHTING – FREQUENTLY ASKED QUESTIONS

Why do my courtesy lamps or interior lamps turn off when I have them switched on when I switch my vehicle off?

The battery saver turns the courtesy lamps and interior lamps off after a short period of time after you switch your vehicle off.

Windows

OPENING AND CLOSING THE WINDOWS



WARNING: Do not leave children unattended in your vehicle and do not let them play with the power windows. Failure to follow this instruction could result in personal injury.



WARNING: When closing the power windows, verify they are free of obstruction and make sure that children and pets are not in the proximity of the window openings.



Press the window control switch to open the window. Lift the window control switch to close the window.

Note: *The power windows operate with the ignition on, and for several minutes after you switch the ignition off or until you open a front door.*

To reduce wind noise or pulsing noise when one window is open, slightly open the opposite window.

One-Touch Open

Fully press the window control switch and release it. Press again or lift it to stop the window.

One-Touch Close

Fully lift the window control switch and release it. Press again or lift it to stop the window.

Resetting One-Touch Close

Carry out all steps within 30 seconds of starting the sequence.

1. Close the window.
2. Press and hold the window control switch until the window is fully open. Keep the window control switch pressed for a few seconds.

3. Lift and hold the window control switch until the window is fully closed. Keep the window control switch held for a few seconds.
4. Press and hold the window control switch until the window is fully open. Keep the window control switch pressed for a few seconds.
5. Lift and hold the window control switch until the window is fully closed. Keep the window control switch held for a few seconds.

Note: *Repeat the procedure if the window does not close when you use one-touch.*

GLOBAL OPENING AND CLOSING

WHAT IS GLOBAL OPENING AND CLOSING

You can use the remote control to open the windows with the ignition off.

Windows

USING GLOBAL OPENING

1. Press and release the unlock button on the remote control.
2. Press and hold the unlock button on the remote control.
3. Release the button when the windows start to open.

Press the lock or the unlock button on the remote control to stop global opening.

Note: *You can use global opening for a short period of time when you unlock your vehicle using the remote control.*

SWITCHING GLOBAL OPENING ON AND OFF

1. Press the menu button on the steering wheel to enter the information display main menu.
2. Select **Settings**.
3. Select **Vehicle**.
4. Select **Windows**.
5. Switch **Remote Open** on or off.

USING GLOBAL CLOSING



WARNING: When closing the power windows, verify they are free of obstruction and make sure that children and pets are not in the proximity of the window openings.

1. Press and hold the lock button on the remote control.
2. Release the button when the windows start to close.

Press the lock or the unlock button on the remote control to stop global closing.

Note: *Bounce-back is on during global closing. See **What Is Window Bounce-Back** (page 131).*

SWITCHING GLOBAL CLOSING ON AND OFF

1. Press the menu button on the steering wheel to enter the information display main menu.
2. Select **Settings**.

3. Select **Vehicle**.
4. Select **Windows**.
5. Switch **Remote Close** on or off.

WINDOW BOUNCE-BACK

WHAT IS WINDOW BOUNCE-BACK

The window stops and reverses some distance if it detects an obstacle when closing.

OVERRIDING WINDOW BOUNCE-BACK



WARNING: If you override bounce-back, the window does not reverse if it detects an obstacle. Take care when closing the windows to avoid personal injury or damage to your vehicle.

Windows



WARNING: Bounce-back is off until you reset the memory. Take care when closing the windows to avoid personal injury or damage to your vehicle.

Note: *The window stops if you release the switch before the window fully closes.*

Pull up the window switch and hold within a few seconds of the window reaching the bounce-back position. The window travels up with no bounce-back protection. The window stops if you release the switch before the window fully closes.

LOCKING THE REAR WINDOW CONTROLS



Press the control to lock or unlock the rear window controls. It illuminates when you lock the rear window controls.

Interior Mirror

INTERIOR MIRROR PRECAUTIONS



WARNING: Do not adjust the mirrors when your vehicle is moving. This could result in the loss of control of your vehicle, serious personal injury or death.

Note: Do not clean the mirror housing or glass with harsh abrasives, fuel or other petroleum-based cleaning products.

AUTO-DIMMING INTERIOR MIRROR

WHAT IS THE AUTO-DIMMING INTERIOR MIRROR

The mirror dims to reduce the effect of bright light from behind. It returns to normal when the bright light from behind is no longer present or if you shift into reverse (R).

AUTO-DIMMING INTERIOR MIRROR LIMITATIONS

Do not block the sensors on the front and back of the mirror.

Note: A rear center passenger or raised rear center head restraint could prevent light from reaching the sensor.

Exterior Mirrors

ADJUSTING THE EXTERIOR MIRRORS



WARNING: Do not adjust the mirrors when your vehicle is moving. This could result in the loss of control of your vehicle, serious personal injury or death.



- A Power fold.
- B Window lock.
- C Adjustment control.

- D Right-hand mirror.
- E Left-hand mirror.

To adjust the mirrors, switch your vehicle on and place the ignition in accessory or start.

1. Select the mirror you want to adjust. The control light turns on.
2. Use the adjustment control to adjust the position of the mirror.
3. Press the mirror control again. The control light turns off.

FOLDING THE EXTERIOR MIRRORS

With the auto-fold feature enabled, the exterior mirrors fold in toward the glass after you place the transmission into park (P), turn off the vehicle, open and close the driver side door and lock the vehicle. The exterior mirrors unfold and return to their driving position after you unlock the vehicle and open and close the driver side door.



For tight parking conditions, press the control to fold the mirrors.

Press the control again to unfold the mirrors.

If you press the control to fold in the mirrors with auto-fold on, the mirrors do not unfold when you unlock your vehicle.

Note: *The power folding mirrors operate with the ignition on, and for several minutes after you switch the ignition off.*

Note: *If you fold and unfold the mirrors several times within one minute, the power fold function may turn off to protect the motors from overheating.*

Switching Auto-fold On and Off

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Mirrors**.
4. Switch **Autofold** on or off.

Exterior Mirrors

Loose Mirror

If you manually fold the power-folding mirrors, they may not work properly even after you re-position them. You need to reset them if:

- The mirrors vibrate when you drive.
- The mirrors feel loose.
- The mirrors do not stay in the folded or unfolded position.
- One of the mirrors is not in its normal driving position.

To reset the power-fold feature, use the power-folding mirror control to fold and unfold the mirrors. You may hear a loud noise as you reset the power-folding mirrors. This sound is normal. Repeat this process as needed each time you manually fold the mirrors.

AUTO-DIMMING EXTERIOR MIRROR

(IF EQUIPPED)

WHAT IS THE AUTO-DIMMING EXTERIOR MIRROR

The driver exterior mirror dims when the interior auto-dimming mirror turns on.

Memory Mirrors (If Equipped)

You can save and recall the mirror positions through the memory function. See **Memory Function** (page 192).

Heated Exterior Mirrors

See **Switching the Heated Mirrors On and Off** (page 170).

Signal Indicator Mirrors (If Equipped)

The forward-facing portion of the appropriate mirror housing blinks when you switch on the direction indicator.

Lincoln Welcome Mat (If Equipped)

Projection lights, on the bottom of the mirror housings, project an image onto the ground a short distance from the vehicle.

Blind Spot Monitor

See **What Is Blind Spot Information System** (page 353).

360 Degree Camera (If Equipped)

See **What Is the 360 Degree Camera** (page 302).

Moonroof (If Equipped)

OPENING AND CLOSING THE SUNSHADE



WARNING: Do not leave children unattended in your vehicle and do not let them play with the sun shades. Failure to follow this instruction could result in personal injury.

The controls are on the overhead console.

Opening the Sun Shade



Press and release the switch to activate the one-touch open feature. To stop movement, press the switch a second time. The sun shade also opens when you open the moonroof.

Note: *The sun shade stops short of its fully opened position for the comfort of rear passengers. To fully open the sun shade, press the switch again.*

Closing the Sun Shade



Press and release the switch to activate the one-touch close feature. To stop movement, press the switch a second time.

Note: *If fully open, the sun shade stops after covering the rear glass panel. Press and release again to fully close the sun shade.*

Note: *The sun shade does not fully close unless the moonroof glass is fully closed.*

OPENING AND CLOSING THE MOONROOF



WARNING: Do not leave children unattended in your vehicle and do not let them play with the moonroof. Failure to follow this instruction could result in personal injury.

The moonroof controls are located on the overhead console and have a one-touch open and close feature. To stop its movement during one-touch operation, press the control a second time.

Opening the Moonroof



Press and release the switch to activate the one-touch open feature. To stop movement, press the switch a second time.

Closing the Moonroof



WARNING: When closing the moonroof, verify that it is free of obstruction and make sure that children and pets are not in the proximity of the roof opening.



Press and release the switch to activate the one-touch close feature, from either the open or vent positions. To stop movement, press the switch a second time.

VENTING THE MOONROOF



WARNING: Do not leave children unattended in your vehicle and do not let them play with the moonroof. Failure to follow this instruction could result in personal injury.

The moonroof controls are on the overhead console.



With the moonroof in the closed position, press and release the switch to vent the moonroof.



To close the moonroof from the vent position, press and release the moonroof close switch.

MOONROOF BOUNCE-BACK

WHAT IS MOONROOF BOUNCE-BACK

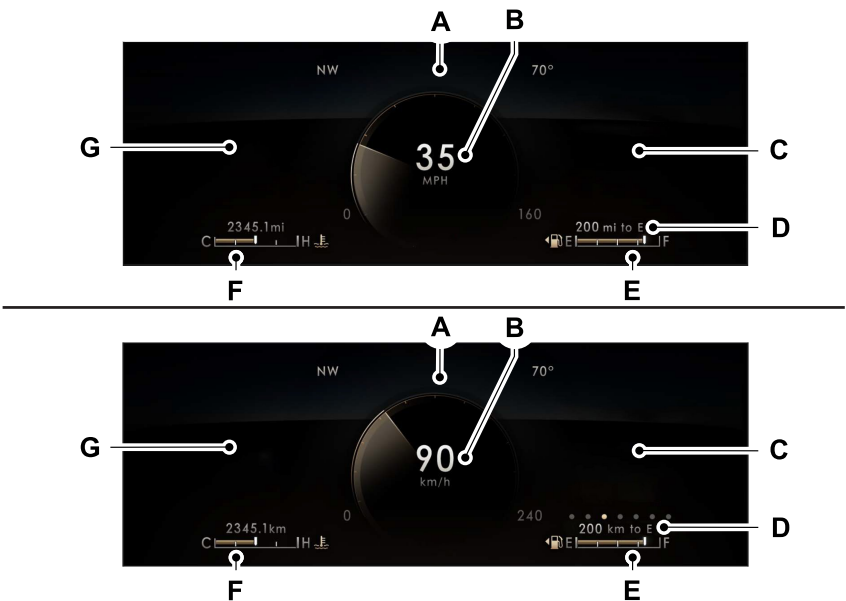
The moonroof stops and reverses some distance if it detects an obstacle when closing.

OVERRIDING MOONROOF BOUNCE-BACK

Press and hold the close switch within two seconds after the moonroof comes to a stop.

Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

INSTRUMENT CLUSTER OVERVIEW



Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

- A Status bar.
- B Speedometer.
- C Right information group.
- D Vehicle driving range.
- E Fuel gauge.
- F Engine coolant temperature gauge.
- G Left information group.

Note: *Clusters shown in single gauge view.*

TACHOMETER

Indicates the engine speed.

SPEEDOMETER

Indicates the vehicle speed.

FUEL GAUGE

WHAT IS THE FUEL GAUGE

Indicates approximately how much fuel is in the fuel tank.

FUEL GAUGE LIMITATIONS

The fuel gauge may not provide an accurate reading when your vehicle is on an incline.

LOCATING THE FUEL FILLER DOOR

The arrow adjacent to the fuel pump symbol indicates on which side of your vehicle the fuel filler door is located.

WHAT IS THE LOW FUEL REMINDER

A low fuel level reminder displays and sounds when the distance to empty reaches 50 mi (80 km), 25 mi (40 km), 12 mi (20 km) and 0 mi (0 km) for all vehicle keys.

Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

Note: *The low fuel reminder can appear at different fuel gauge positions depending on fuel economy conditions. This variation is normal.*

WHAT IS DISTANCE TO EMPTY

Indicates the approximate distance your vehicle can travel on the fuel remaining in the tank. Changes in driving pattern can cause the value to not only decrease but also increase or stay constant for periods of time.

ENGINE COOLANT TEMPERATURE GAUGE

Indicates the engine coolant temperature.

WHAT ARE THE INSTRUMENT CLUSTER WARNING LAMPS

Warning lamps alert you to a vehicle condition that could become serious. Some lamps illuminate when you start your vehicle to make sure they work. If any lamps remain on after starting your vehicle, refer to the respective system warning lamp for further information.

INSTRUMENT CLUSTER WARNING LAMPS

Depending on your vehicle options and instrument cluster type, not all warning lamps shown are available.

Airbags



See **Airbags** (page 65).

Anti-Lock Brake System



If it illuminates when you are driving, this indicates a malfunction. Your vehicle continues to have normal braking without the anti-lock brake system function. Have your vehicle checked as soon as possible.

Battery



It illuminates when you switch the ignition on.

If it illuminates when the engine is running, this indicates your vehicle requires service. Have your vehicle checked as soon as possible.

Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

Brake System



Illuminates red when you apply the parking brake and the ignition is on. If it illuminates when your vehicle is moving, make sure the parking brake is released. If the parking brake is released, this indicates low brake fluid level or the brake system requires service. Have your vehicle checked as soon as possible.

Note: Indicators may vary depending on region.

Door Ajar



Illuminates when you switch the ignition on and remains on if any door is open.

Electric Parking Brake



Illuminates yellow or flashes when the electric parking brake requires service.

Note: Indicators may vary depending on region.

Engine Coolant Temperature



If it illuminates, safely stop your vehicle and switch it off.

Fasten Seatbelt



Illuminates and a tone sounds until you fasten the seatbelts.

Fasten Rear Seatbelt



Illuminates and a tone sounds to signal the rear seatbelts are not fastened.

Hood Ajar



Illuminates when the ignition is on and the hood is not completely closed.

Liftgate Ajar



Illuminates when the liftgate is not completely closed.

Low Beam Warning



Illuminates when there is a malfunction with the LED low beam headlamp.

Low Fuel Level



Illuminates when the fuel level is low.

Low Tire Pressure



Illuminates when your tire pressure is low. If illuminated, check your tire pressure as soon as possible.

If it begins to flash at any time, have the system checked as soon as possible.

Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

Low Washer Fluid Level



Illuminates when the washer fluid is low.

Malfunction Indicator Lamp



Illuminates when the ignition is on and the engine is off, this is normal. If it illuminates when the engine is on, this indicates the emission control system requires service. If it flashes, have your vehicle checked immediately. See **Starting and Stopping the Engine – Warning Lamps** (page 210). See **Emission Law** (page 651).

Oil Pressure



WARNING: If it illuminates when you are driving do not continue your journey, even if the oil level is correct. Have your vehicle checked.



Illuminates when the engine oil pressure is low.

Powertrain Fault



Illuminates when the system detects a powertrain or a 4WD/AWD fault. Have your vehicle checked as soon as possible.

WHAT ARE THE INSTRUMENT CLUSTER INDICATORS

Indicators notify you of various features that are active on your vehicle.

INSTRUMENT CLUSTER INDICATORS

Depending on your vehicle options and instrument cluster type, not all indicators shown are available.

Adaptive Cruise Control



See **Adaptive Cruise Control** (page 310).

Automatic High Beam



See **Automatic High Beam Control** (page 121).

Auto Hold

Auto Hold Active



See **Auto Hold** (page 284).

Auto Hold Unavailable



See **Auto Hold** (page 284).

Auto-Start-Stop

Auto-Start-Stop Available



See **Auto-Start-Stop** (page 220).

Auto-Start-Stop Unavailable



See **Auto-Start-Stop** (page 220).

Instrument Cluster - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

Blind Spot Monitor



See **Blind Spot Information System** (page 353).

Cruise Control



See **Adaptive Cruise Control** (page 310).

High Beam



See **Headlamps** (page 118).

Lamps On



See **Exterior Lighting Control** (page 118).

Pre-Collision Assist



See **What Is Pre-Collision Assist** (page 361).

Stability Control

Stability Control Active



See **Stability Control** (page 288).

Stability Control Off



See **Stability Control** (page 288).

Turn Signal Lamps

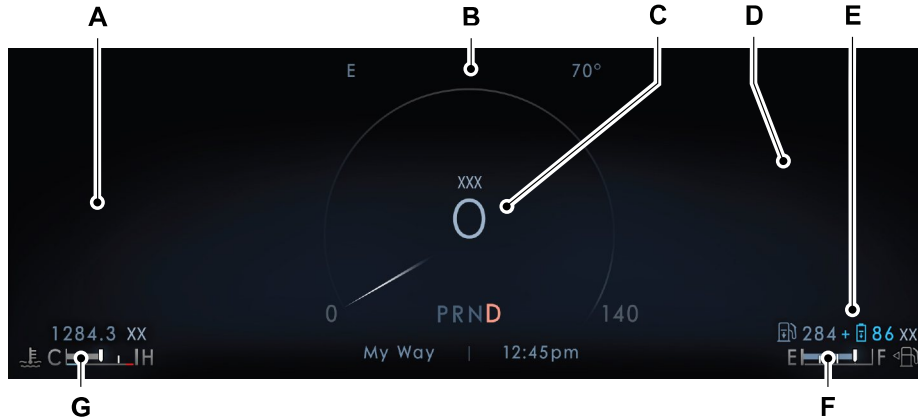


See **Using the Turn Signal Lamps** (page 120).

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

INSTRUMENT CLUSTER OVERVIEW

Single Gauge View



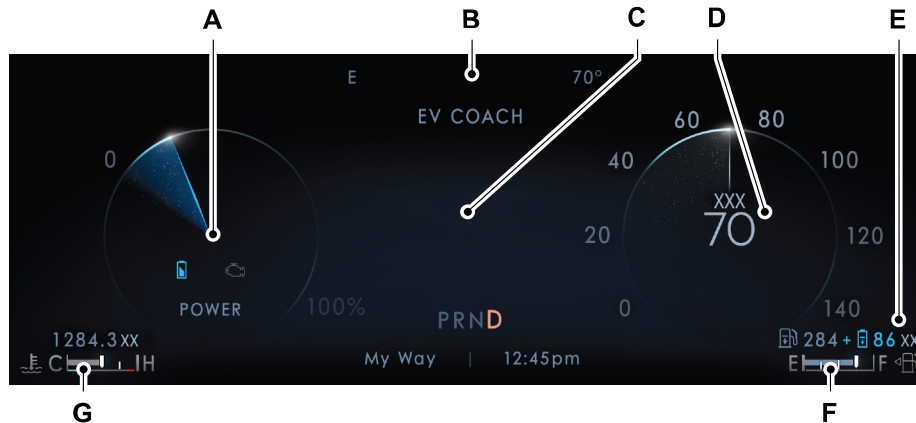
- A Left information group.
- B Status Bar.
- C Speedometer.
- D Right information group.

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

- E Vehicle driving range.
- F Fuel gauge.
- G Engine coolant temperature gauge.

Note: Displays may appear slightly different depending on region.

Dual Gauge View



Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

- A Power gauge.
- B Status Bar.
- C Information group.
- D Speedometer.
- E Vehicle driving range.
- F Fuel gauge.
- G Engine coolant temperature gauge.

Note: *Displays may appear slightly different depending on region.*

POWER GAUGE

The power gauge displays power to the wheels when accelerating or maintaining speed. The high voltage battery power and engine power contributions are distinguished by color and added together to indicate total power to the wheels. When slowing down by lifting your foot off the accelerator pedal or pressing the brake, the gauge displays the power captured by the regenerative braking system and returned to the high voltage battery.

SPEEDOMETER

Indicates the vehicle speed.

FUEL GAUGE

WHAT IS THE FUEL GAUGE

Indicates approximately how much fuel is in the fuel tank.

FUEL GAUGE LIMITATIONS

The fuel gauge may not provide an accurate reading when your vehicle is on an incline.

LOCATING THE FUEL FILLER DOOR

The arrow adjacent to the fuel pump symbol indicates on which side of your vehicle the fuel filler door is located.

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

WHAT IS THE LOW FUEL REMINDER

A low fuel level reminder displays and sounds when the distance to empty reaches 50 mi (80 km), 25 mi (40 km), 12 mi (20 km) and 0 mi (0 km) for all vehicle keys.

Note: *The low fuel reminder can appear at different fuel gauge positions depending on fuel economy conditions. This variation is normal.*

VEHICLE RANGE DISPLAY

Displays the approximate range your vehicle can travel with the energy currently onboard. Estimates vary based on the energy used when driving.

Changes in driving pattern can cause the values to not only decrease but also increase or stay constant for periods of time.

The amount of energy being used when driving is affected by:

- Mild or aggressive acceleration or braking.
- Your vehicle's speed.

- Use of accessories, such as climate control.
- Ambient temperature and weather conditions.
- Driving in a city or on a highway.
- Driving on hilly road conditions.
- Towing.

Note: *It is normal for vehicle range estimates to vary due to changes in average energy usage. This could cause different range estimates each time you fully charge your battery or fill your tank.*

Note: *Electric range is lower in cold temperatures due to reduced energy capacity in the high voltage battery. Set a departure time and cabin temperature to maintain battery temperature for best range and performance. See **What is a Hybrid Electric Vehicle** (page 213). See **Setting the Charging Schedule and Preferences** (page 250).*

Gasoline Distance to Empty

Indicates the approximate distance your vehicle can travel on the fuel remaining in the tank.

Electric Range

Indicates the approximate distance your vehicle can travel on electric power only with the engine off.

ENGINE COOLANT TEMPERATURE GAUGE

Indicates the engine coolant temperature.

WHAT ARE THE INSTRUMENT CLUSTER WARNING LAMPS

Warning lamps alert you to a vehicle condition that could become serious. Some lamps illuminate when you start your vehicle to make sure they work. If any lamps remain on after starting your vehicle, refer to the respective system warning lamp for further information.

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

INSTRUMENT CLUSTER WARNING LAMPS

Depending on your vehicle options and instrument cluster type, not all warning lamps shown are available.

Airbags



See **Airbags** (page 65).

Anti-Lock Brake System



If it illuminates when you are driving, this indicates a malfunction. Your vehicle continues to have normal braking without the anti-lock brake system function. Have your vehicle checked as soon as possible.

Battery



Illuminates when you switch the ignition on.

If it illuminates when the engine is running, this indicates your vehicle requires service. Have your vehicle checked as soon as possible.

Brake System



Illuminates when you apply the parking brake and the ignition is on. If it illuminates when your vehicle is moving, make sure the parking brake is released. If the parking brake is released, this indicates low brake fluid level or the brake system requires service. Have your vehicle checked as soon as possible.

Note: *Indicators may vary depending on region.*

Door Ajar



Illuminates when you switch the ignition on and remains on if any door is open.

Electric Parking Brake



Illuminates yellow or flashes when the electric parking brake requires service.

Note: *Indicators may vary depending on region.*

Engine Coolant Temperature



If it illuminates, safely stop your vehicle and switch it off.

Fasten Seatbelt



Illuminates and a tone sounds until you fasten the seatbelts.

Fasten Rear Seatbelt



Illuminates and a tone sounds to signal the rear seatbelts are not fastened.

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

Hood Ajar



Illuminates when the ignition is on and the hood is not completely closed.

Liftgate Ajar



Illuminates when the liftgate is not completely closed.

Low Beam Warning



Illuminates when there is a malfunction with the LED low beam headlamp.

Low Fuel Level



Illuminates when the fuel level is low.

Low Tire Pressure



Illuminates when your tire pressure is low. If illuminated, check your tire pressure as soon as possible.

If it begins to flash at any time, have the system checked as soon as possible.

Low Washer Fluid Level



Illuminates when the washer fluid is low.

Malfunction Indicator Lamp



Illuminates when the ignition is on and the engine is off, this is normal. If it illuminates when the engine is on, this indicates the emission control system requires service. If it flashes, have your vehicle checked immediately. See **Starting and Stopping the Engine – Warning Lamps** (page 210). See **Emission Law** (page 651).

Oil Pressure



WARNING: If it illuminates when you are driving do not continue your journey, even if the oil level is correct. Have your vehicle checked.



Illuminates when the engine oil pressure is low.

Powertrain Fault



Illuminates when the system detects a powertrain or a 4WD/AWD fault. Have your vehicle checked as soon as possible.

Stop Safely Now



Illuminates if your vehicle has an electrical component fault or failure that could cause your vehicle to shut down or enter into a limited operating mode. A message could also display.

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

WHAT ARE THE INSTRUMENT CLUSTER INDICATORS

Indicators notify you of various features that are active on your vehicle.

INSTRUMENT CLUSTER INDICATORS

Depending on your vehicle options and instrument cluster type, not all indicators shown are available.

Adaptive Cruise Control



See **Adaptive Cruise Control** (page 310).

Automatic High Beam Control



See **Automatic High Beam Control** (page 121).

Auto Hold

Auto Hold Active



See **Auto Hold** (page 284).

Auto Hold Unavailable



See **Auto Hold** (page 284).

Blind Spot Monitor



See **Blind Spot Information System** (page 353).

Cruise Control



See **Adaptive Cruise Control** (page 310).

High Beam



See **Headlamps** (page 118).

Lamps On



See **Exterior Lighting Control** (page 118).

Pre-Collision Assist



See **What Is Pre-Collision Assist** (page 361).

Ready to Drive



Illuminates when you switch on your vehicle and it is ready to drive. A message could also

display.

Stability Control

Stability Control Active



See **Stability Control** (page 288).

Stability Control Off



See **Stability Control** (page 288).

Instrument Cluster - Plug-In Hybrid Electric Vehicle (PHEV)

Stop Safely Now



Illuminates if your vehicle has an electrical component fault or failure that could cause your vehicle to shut down or enter into a limited operating mode. A message could also display.

Turn Signal



See **Using the Turn Signal Lamps** (page 120).

Vehicle Plugged In



Illuminates when your vehicle is plugged in. A corresponding message could display after attempting to start your vehicle.

Instrument Cluster Display - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)

USING THE INSTRUMENT CLUSTER DISPLAY CONTROLS



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

You can control various systems on your vehicle using the quick action menu (QAM) on the right-hand side of the steering wheel. The instrument cluster provides the corresponding information.

Instrument Cluster Display Controls



Note: The controls change when you enter a submenu.



Move the selector switch up to enter the navigation submenu.



Move the selector switch down to enter the settings submenu.



Move the selector switch to the right to enter the mode phone submenu.



Move the selector switch to the left to enter the media submenu.



Press the folder button to scroll through information on demand display screens. See **Customizing the Instrument Cluster Display** (page 153).

Menu Controls

The following controls are only available once you enter a submenu:



Use the selector switch to toggle up and down.



Press the home button to exit a submenu.

Instrument Cluster Display - Excluding: Plug-In Hybrid Electric Vehicle (PHEV)



Move the selector switch to the left to exit a submenu.



Move the selector switch to the right to choose and confirm settings or messages.

Status Indicator



This icon shows the features on or off status. A check in the box indicates the feature is on, and unchecked indicates the feature is off.

Note: Some menu items are regional specific or optional and may appear slightly different or not at all.

INSTRUMENT CLUSTER DISPLAY MAIN MENU

Depending on your vehicle options, some menu items can appear different or not at all.

Note: For your safety, some features are speed-dependent and could be unavailable when your vehicle is above a certain speed.

Menu Item
Settings
Audio
Phone
Navigation

CUSTOMIZING THE INSTRUMENT CLUSTER DISPLAY

You can customize the gauge displays through the following:

Menu Item	Action
Display	Press the OK button.

Instrument Cluster Display - Plug-In Hybrid Electric Vehicle (PHEV)

USING THE INSTRUMENT CLUSTER DISPLAY CONTROLS



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

You can control various systems on your vehicle using the quick action menu (QAM) on the right-hand side of the steering wheel. The instrument cluster provides the corresponding information.

Instrument Cluster Display Controls



Note: The controls change when you enter a submenu.



Move the selector switch up to enter the navigation submenu.



Move the selector switch down to enter the settings submenu.



Move the selector switch to the right to enter the mode phone submenu.



Move the selector switch to the left to enter the media submenu.



Press the folder button to scroll through information on demand display screens. See **Customizing the Instrument Cluster Display** (page 153).

Menu Controls

The following controls are only available once you enter a submenu:



Use the selector switch to toggle up and down.



Press the home button to exit a submenu.

Instrument Cluster Display - Plug-In Hybrid Electric Vehicle (PHEV)



Move the selector switch to the left to exit a submenu.



Move the selector switch to the right to choose and confirm settings or messages.

Status Indicator



This icon shows the features on or off status. A check in the box indicates the feature is on, and unchecked indicates the feature is off.

Note: Some menu items are regional specific or optional and may appear slightly different or not at all.

INSTRUMENT CLUSTER DISPLAY MAIN MENU

Depending on your vehicle options, some menu items can appear different or not at all.

Note: For your safety, some features are speed-dependent and could be unavailable when your vehicle is above a certain speed.

Menu Item
Settings
Audio
Phone
Navigation

CUSTOMIZING THE INSTRUMENT CLUSTER DISPLAY

You can customize the gauge displays through the following:

Menu Item	Action
Display	Press the OK button.

Instrument Cluster Display - Plug-In Hybrid Electric Vehicle (PHEV)

FUEL ECONOMY DISPLAY

This display comes with an instant fuel economy gauge, along with the average fuel economy. The gauge continuously averages the fuel economy since your last reset.

The system includes both the electric only and the hybrid operation in the calculation. More electric only driving results in a greater average fuel economy.

When the gasoline engine is off, changes from the instant fuel economy gauge to an electric driving message.

Note: *Press and hold the **OK** button on the controls on the steering wheel to reset your average fuel economy.*

EV COACH

EV coach can help you get the most out of your vehicle's electric driving capabilities.

When you are accelerating or maintaining speed you see a blue or white solid bar indicating vehicle power. You may also see a blue rectangular box which shows the power level at which the engine turns on.

- When the power level is within the box, the color of the bar is blue. This means you are in electric operation and the engine is off.
- When the power level is outside of the box, the color of the bar is white. This means you are in hybrid operation with a combination of the electric motor and the engine providing vehicle power.

When you are decelerating with either your foot off the accelerator pedal or on the brake pedal, a green or white solid bar displays indicating the power being used to slow down your vehicle. You may also see a green rectangular box which shows the amount of power that can be recaptured by the regenerative braking system and returned to the high voltage battery.

- When the power level is within the box, the color of the bar will be all green. This means that the regenerative braking system is being used to efficiently slow your vehicle down and return the maximum percentage of energy to the high voltage battery.
- When the power level is outside of the box, then the bar is white. This means both the regenerative braking system and conventional braking system are being used.

ELECTRIC ECONOMY

This screen shows your average driving distance per kilowatt-hour of electricity used on your plug-in hybrid vehicle. The value is calculated only when your available electric range is being used and the gasoline engine is off.

Distance per full charge is also shown. This is an estimate of the electric range you would have if you plugged in and fully charged your vehicle right now. The higher your electric economy, the higher your distance per full charge.

Instrument Cluster Display - Plug-In Hybrid Electric Vehicle (PHEV)

Your electric economy is affected by your driving style and route, climate control use, outside temperature and other factors. Best economy is achieved with mild to moderate acceleration and braking, moderate speeds and low climate control usage.

Note: *Electric economy is a selectable screen. See **Customizing the Instrument Cluster Display** (page 155).*

BRAKE COACH

The brake coach appears after your vehicle has come to a stop. It coaches you to brake in a manner that maximizes the amount of energy returned through the regenerative braking system.

The percent displayed indicates the regenerative braking efficiency, with 100% representing the maximum amount of energy recovered.

Note: *While regenerative braking works in all drive modes, brake coach display may not be available in all drive modes.*

You can switch brake coach on or off in the settings menu. See **Instrument Cluster Display Main Menu** (page 155).

TRIP SUMMARY

The trip summary displays upon shutting off your vehicle. The values are cumulative since you last started your vehicle.

The information shown is the same as the This Trip screen. See **Trip Data** (page 159).

VEHICLE CHARGING STATUS

The vehicle charge status displays when you switch off your vehicle and when you switch on your vehicle when plugged in. Charging status includes the charge start or charge end time as appropriate. You can modify your charge settings through the touchscreen. See **Setting the Charging Schedule and Preferences** (page 250).

Personalized Settings

CHANGING THE LANGUAGE

1. Press **Settings** on the touchscreen.
2. Press **General**.
3. Press **Language**.
4. Select a language.

CHANGING THE MEASUREMENT UNIT

1. Press **Settings** on the touchscreen.
2. Press **General**.
3. Press **Measurement Units**.
4. Select a measurement unit.

CHANGING THE TEMPERATURE UNIT

1. Press **Settings** on the touchscreen.
2. Press **General**.
3. Press **Temperature Units**.
4. Select a temperature unit.

CHANGING THE TIRE PRESSURE UNIT

1. Press **Settings** on the touchscreen.
2. Press **General**.
3. Press **Tire Pressure Units**.
4. Select a pressure unit.

Trip Computer

ACCESSING THE TRIP COMPUTER

Using Select Screens

1. Use the instrument cluster display controls to navigate the home menu.
2. Select **Select Screens**.
3. Use the control on the steering wheel to navigate the menu. See **Customizing the Instrument Cluster Display** (page 153).

Using the Home Screen

Once the screens have been added, use the instrument cluster display controls on the steering wheel to view each trip screen.

RESETTING THE TRIP COMPUTER

1. Use the instrument cluster display controls to navigate the home screen.
2. Select the trip screen you want to reset.
3. Press and hold the **OK** button until the system reset confirmation appears.

CONFIGURING THE TRIP COMPUTER

1. Use the instrument cluster display controls to navigate the home screen.
2. Select the trip screen.
3. Press the menu button on the steering wheel.
4. Select **Configure View**.
5. Select values to display.

TRIP DATA

Trip 1 and 2

Provides trip timer, trip average fuel economy and total trip distance traveled. For hybrid vehicles, the trip also shows the distance traveled on electric power only with the engine off.

Note: *Trip 1 and 2 are selectable screens. See **Accessing the Trip Computer** (page 159).*

This Trip

Provides trip timer, trip average fuel economy, total trip distance traveled, and distance traveled on electric power only with the engine off. If the gasoline engine has not turned on during the trip then trip average fuel economy is not shown. This Trip resets each time you start your vehicle.

Note: *This trip is a selectable screen. See **Accessing the Trip Computer** (page 159).*

Head Up Display (If Equipped)

WHAT IS THE HEAD UP DISPLAY

The system displays information on a display screen in your field of vision, allowing you to keep your eyes on the road. You can select which information the system displays.

SWITCHING THE HEAD UP DISPLAY ON AND OFF

Use the instrument cluster controls on the steering wheel to navigate to the head up display menu.

Menu Item	Action
HUD	Press the OK button.
HUD On	Press the OK button.

Note: *The system remembers the last setting when you start the engine.*

HEAD UP DISPLAY SETTINGS

You can control the system's options through the instrument cluster display by using the **HUD**, **OK** and arrow buttons on your steering wheel. See **Using the Instrument Cluster Display Controls** (page 154).

You can adjust the display according to your height to make viewing the content easier. You can also adjust what content displays and the brightness of the content. The system's options appear in the instrument cluster while the updates happen in the head up display.

Note: *If **HUD On** is unchecked, other options of the system are hidden.*

Note: *The head up display menu automatically closes after a certain period of inactivity.*

Note: *The head up display image brightness automatically adjusts to the brightness of the ambient environment. You have the ability to adjust the brightness further according to your preference.*

Note: *In some instances, sunlight can cause some reflections in and around the head up display image.*

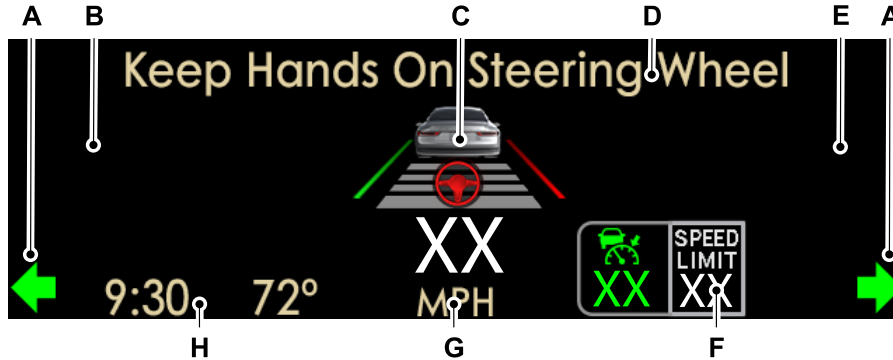
Head Up Display (If Equipped)

Head-Up Display (HUD)		
Brightness	Follow onscreen directions to confirm or modify your settings.	
HUD Adjustments	Vertical Position	Follow onscreen directions to confirm or modify your settings.
	Image Rotation	
HUD Content	Turns the distance to empty, time and temperature on and off.	
	Cruise and Lane Control	Select Your Setting

Note: When you save a memory preset position, your current HUD settings are also saved to that memory preset position. See **How Does the Memory Function Work** (page 192).

Head Up Display (If Equipped)

HEAD UP DISPLAY INDICATORS



- A Signaling and traffic indication.
- B Navigation display area.
- C Advanced driver assistance systems display area.
- D System message display area.
- E Advanced driver assistance systems message display area.
- F Speed limit display area.

Head Up Display (If Equipped)

- G Speedometer display area.
- H Status bar.

Signaling and Traffic Indication

Displays turn signals and blind spot information, if turn signals are active.

Navigation Display Area

Displays navigation next turn instructions.

Advanced Driver Assistance Systems Display Area

Displays adaptive cruise control, lane centering aid and lane keeping system status and warnings.

System Message Display Area

Displays system messages and notifications including incoming phone calls.

Advanced Driver Assistance Systems Message Display Area

Displays advanced driver assistance systems messages and image adjustment prompts.

Speed Limit Display Area

Displays the speed limit information if it is available in the map database or is detected by the camera.

Speedometer Display Area

Displays the current vehicle speed and the transmission gear selection.

Status Bar

Displays distance to empty, time and outside air temperature. Next to distance to empty, the fuel gauge fill color changes to yellow in low fuel conditions. You can switch off the status bar in the head up display settings menu.

Head Up Display (If Equipped)

HEAD UP DISPLAY – TROUBLESHOOTING

HEAD UP DISPLAY – INFORMATION MESSAGES

Message	Action
Head Up Display System Fault See Manual	The system is malfunctioning or something is obstructing the display. Make sure that the head up display is free from obstruction. If the message continues to appear, have your vehicle checked as soon as possible.
Head Up Display To Position Use the Information Display	Press the button on the steering wheel or center console. The head up display menu appears in the instrument cluster display. Make sure the blue frame is fully visible. Do not manually move the screen. This can cause damage not covered by your vehicle's warranty.

Remote Start

WHAT IS REMOTE START

The system allows you to remotely start your vehicle and therefore to heat or cool the interior to a predetermined temperature.

REMOTE START PRECAUTIONS



WARNING: Do not start the engine in a closed garage or in other enclosed areas. Exhaust fumes are toxic. Always open the garage door before you start the engine. Failure to follow this instruction could result in personal injury or death.

REMOTE START LIMITATIONS

Remote start does not work if:

- The alarm horn is sounding.
- The hood is open.
- The transmission is not in park (P).
- Remote start is not enabled.
- The ignition is on.

Note: Do not use remote start if your fuel level is low.

ENABLING REMOTE START

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Switch **System** on or off.

Note: To use remote start, make sure that the modem is enabled. See **Enabling and Disabling the Modem** (page 514).

REMOTELY STARTING AND STOPPING THE VEHICLE

Remotely Starting the Vehicle



Press the button on the remote control.



Within three seconds, press the button on the remote control.

Within three seconds, press the button again.

Note: You can also use the Lincoln Way app to start the vehicle.

Note: The turn signals flash twice.

Note: The parking lamps turn on when the vehicle is running.

Note: The horn sounds if the system fails to start.

Note: All other vehicle systems remain off when you have remotely started the vehicle.

Note: The vehicle remains secured when you have remotely started the vehicle. A valid key must be inside your vehicle to switch your vehicle on and drive your vehicle.

Remotely Stopping the Vehicle



Within three seconds, press the button on the remote control.

Within three seconds, press the button again.

Remote Start

EXTENDING THE REMOTE START DURATION

To extend the engine running duration during remote start, do the following:



Press the button on the remote control.



Within three seconds, press the button on the remote control.

Within three seconds, press the button again.

Note: You can extend the engine running duration to a maximum of 30 minutes.

REMOTE START REMOTE CONTROL INDICATORS

Remote Control Feedback

An LED on the remote control provides status feedback of remote start or stop commands.

LED	Status
Solid green.	Remote start successful.
Solid red.	Remote stop successful.
Blinking red.	Request failed or status not received.
Blinking green.	Status incomplete.

REMOTE START SETTINGS

Climate Control Settings

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Climate Control**.
5. Press **Auto** or **Last settings**.

Note: If you switch the auto mode on, the system attempts to heat or cool the interior to 72°F (22°C). When you switch the vehicle on, the climate control system returns to the last used settings.

Note: If you switch the last settings on, the system remembers the last used settings.

Heated Seat Settings (If Equipped)

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Seats**.
5. Press **Auto** or **Off**.

Note: If you switch the heated seat settings on, the heated seats turn on during cold weather.

Note: You cannot adjust the heated seat settings when you remotely start your vehicle.

Heated Steering Wheel Settings (If

Equipped)

1. Press **Settings** on the touchscreen.

Remote Start

2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Seats and Steering Wheel**.
5. Press **Auto** or **Off**.

Note: *If you switch the heated steering wheel settings on, the heated steering wheel turns on during cold weather.*

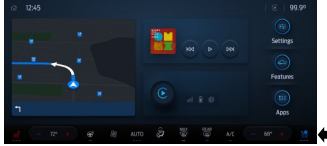
Note: *You cannot adjust the heated steering wheel settings when you remotely start your vehicle.*

Remote Start Duration

1. Press **Settings** on the touchscreen.
2. Press **Vehicle Settings**.
3. Press **Remote Start Setup**.
4. Press **Duration**.
5. Press the duration you prefer.

Climate Control

IDENTIFYING THE CLIMATE CONTROL UNIT



Note: Depending on your vehicle options, the controls may look different from what you see here.

SWITCHING CLIMATE CONTROL ON AND OFF



Press the button to activate the selection screen.



Press the button.

SWITCHING RECIRCULATED AIR ON AND OFF



Press the button to activate the selection screen.



Press the button to recirculate air currently in the passenger compartment.

Note: Recirculated air may turn off automatically, or prevent you from switching on in all air flow modes except MAX A/C to reduce the risk of fogging. Recirculation may also turn on and off automatically in various air distribution control combinations to improve heating or cooling efficiency.

SWITCHING AIR CONDITIONING ON AND OFF



Press the button.

Note: Under certain conditions, the air conditioning compressor could continue to operate after you switch air conditioning off.

Note: To keep the system and its components fully functional, switch air conditioning on and let your vehicle idle at least once per month for a minimum of two minutes.

SWITCHING DEFROST ON AND OFF



Press the button to activate the selection screen.



Press the button on the touchscreen to switch the windshield air vents on.



Make sure that the instrument panel air vents are switched off.



Make sure that the footwell air vents are switched off.

Climate Control

SWITCHING MAXIMUM DEFROST ON AND OFF



Press the button on the touchscreen.

Air flows through the windshield air vents, and the blower motor adjusts to the highest speed.

You can also use this setting to defog and clear the windshield of a thin covering of ice.

Note: You can also press the button on the instrument panel to switch the maximum defrost on or off.

Note: To prevent window fogging, you cannot select recirculated air when maximum defrost is on.

Note: The heated rear window and air conditioning also turn on when you select maximum defrost.

SWITCHING MAXIMUM COOLING ON AND OFF



Press the button to activate the selection screen.



Press the button.

Note: When you switch maximum cooling off, air conditioning remains on.

Note: In certain conditions, for example, cold weather, maximum cooling may not activate or could run slow when switched on. This helps reduce power consumption from the battery.

SWITCHING THE HEATED WIPER PARK ON AND OFF (IF EQUIPPED)



The heated wiper park is an auxiliary feature that supports the wipers to remain functional in cold temperatures. The feature assists in defrosting the bottom of the windshield where the wipers sit when not in use.

The feature can be activated in two ways;

-When Defrost or MAX defrost button is pressed and ambient temperature is less than 2°C.

- Automatically when ambient temperature is less than 0°C.

SWITCHING THE HEATED REAR WINDOW ON AND OFF



Press the button to clear the rear window of thin ice and fog. The heated rear window turns off after a short period of time.

Note: Do not use harsh chemicals, razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window as this could cause damage to the heated rear window grid lines not covered by the vehicle Warranty.

Note: The engine must be running or your vehicle must be ready to drive to switch the system on.

Climate Control

SETTING THE BLOWER MOTOR SPEED



Press the button to set the blower motor speed.



Slide the control to set the blower motor speed.

Note: You can press + or - to set the blower motor speed.

SWITCHING THE HEATED MIRRORS ON AND OFF (IF EQUIPPED)

When you switch the heated rear window on, the heated exterior mirrors turn on.

Note: Do not remove ice from the mirrors with a scraper or adjust the mirror glass when it is frozen in place.

Note: Do not clean the mirror housing or glass with harsh abrasives, fuel or other petroleum-based cleaning products. The vehicle warranty may not cover damage caused to the mirror housing or glass.

Note: The engine must be running or your vehicle must be ready to drive to switch the system on.

SETTING THE TEMPERATURE

Press the temperature controls on either side of the climate control to set the temperature for that side.



Slide the control to set the temperature.

Note: You can press + or - to set the temperature.

DIRECTING THE FLOW OF AIR

Directing Air to the Windshield Air Vents



Press the button to activate the selection screen.



Press the button on the touchscreen.

Directing Air to the Instrument Panel Air Vents



Press the button to activate the selection screen.



Press the button on the touchscreen.

Directing Air to the Footwell Air Vents



Press the button to activate the selection screen.



Press the button on the touchscreen.

AUTO MODE

SWITCHING AUTO MODE ON AND OFF



Press the button to switch auto mode on. Repeatedly press the button to adjust auto mode.

Climate Control

Adjust the blower motor control or air distribution control to switch auto mode off.

AUTO MODE INDICATORS

The indicators are on the Auto Mode button.

Auto Mode Indicator Status	Description
One indicator illuminated.	The blower motor speed is reduced. Use this setting to minimize the amount of noise from the blower motor. This setting increases the time taken to cool the interior.
Two indicators illuminated.	The blower motor speed is moderate.
Three indicators illuminated.	The blower motor speed is increased. Use this setting to reduce the time taken to cool the interior. This setting increases the amount of noise from the blower motor.

Climate Control

SWITCHING DUAL MODE ON AND OFF



Press the button to activate the selection screen.



Press the button.

Note: When dual mode is off, setting the temperature using the driver side controls, sets the temperature for both sides.

Note: Setting the temperature using the passenger side controls, sets the passenger temperature and switches dual mode on.

CLIMATE CONTROL HINTS

General Hints

- Prolonged use of recirculated air may cause the windows to fog up.
- You may feel a small amount of air from the footwell air vents regardless of the air distribution setting.

- To reduce humidity build-up inside your vehicle, do not drive with the system switched off or with recirculated air always switched on.
- Do not place objects under the front seats as this may interfere with the airflow to the rear seats.
- Remove any snow, ice or leaves from the air intake area at the base of the windshield.
- To improve the time to reach a comfortable temperature in hot weather, drive with the windows open until you feel cold air through the air vents.

Automatic Climate Control

- Adjusting the settings when your vehicle interior is extremely hot or cold is not necessary. Automatic mode is best recommended to maintain set temperature.
- The system adjusts to heat or cool the interior to the temperature you select as quickly as possible.

- For the system to function efficiently, the instrument panel and side air vents should be fully open.
- If you press **AUTO** during cold outside temperatures, the system directs air flow to the windshield and side window air vents. In addition, the blower motor may run at a slower speed until the engine warms up.
- If you press **AUTO** during hot temperatures and the inside of the vehicle is hot, the system uses recirculated air to maximize interior cooling. Blower motor speed may also reduce until the air cools.

Quickly Heating the Interior

1. Press **AUTO**.
2. Adjust the temperature function to the setting you prefer.

Recommended Settings for Heating

1. Press **AUTO**.

Climate Control

2. Adjust the temperature function to the setting you prefer. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.

Quickly Cooling the Interior

1. Press **MAX A/C**.
2. Drive with the windows open for a short period of time.

Recommended Settings for Cooling

1. Press **AUTO**.
2. Adjust the temperature function to the setting you prefer. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.

Defogging the Side Windows in Cold Weather

1. Press and release defrost or maximum defrost.
2. Adjust the temperature control to the setting you prefer. Use 72°F (22°C) as a starting point, then adjust the setting as necessary.

Interior Air Quality

WHAT IS THE CABIN AIR FILTER

Your vehicle is equipped with a cabin air filter, which gives you and your passengers the following benefits:

- It improves your driving comfort by reducing particle and odor concentration.
- It improves the interior compartment cleanliness.
- It protects the climate control components from particle deposits.

REPLACING THE CABIN AIR FILTER

Replace the filter at regular intervals. See **Scheduled Maintenance** (page 563).

Note: *Make sure you have a cabin air filter installed at all times. This prevents foreign objects from entering the system. Running the system without a filter in place could result in degradation or damage to the system.*

Note: *Using an aftermarket cabin air filter could reduce cabin air filtration and climate control performance.*

AUTO AIR REFRESH (IF EQUIPPED)

WHAT IS AUTO AIR REFRESH

Auto air refresh helps improve or maintain the quality of air within your vehicle cabin.

HOW DOES AUTO AIR REFRESH WORK

Auto air refresh uses an air quality sensor to automatically adjust the climate control system to change from outside air to recirculated air to help reduce the entry of outside odors into the cabin. It uses a particulate matter sensor in the cabin to estimate and provide information about particulate matter pollution in the cabin. It also allows you to refresh the cabin air with outside air on-demand or automatically.

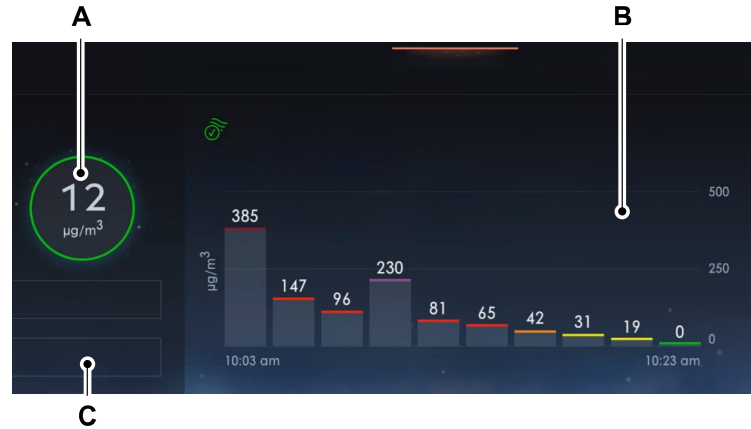
CHECKING THE INTERIOR AIR QUALITY



Press the button on the touchscreen.

1. Press Auto Air Refresh.

Interior Air Quality



- A Cabin air quality.
- B Cabin air history.
- C Help button.

Interior Air Quality

Particulate Matter Pollution Information

Press Help for more information about particulate matter pollution.

The numbers provided by the cabin's PM2.5 sensor are estimates of the concentration of particles in the cabin air. The measurement unit is $\mu\text{g}/\text{m}^3$, representing mass (micrograms of particulates) per unit of air volume (cubic meter of air).

The colors around the PM2.5 numbers provide visual cues about the concentration levels.

Note: PM2.5 is only one pollution type contributing to an Air Quality Index and by itself does not represent the Air Quality Index.

AUTO AIR REFRESH INDICATORS

The indicator area is on the touchscreen feature bar and displays one of the following:



Indicates blower motor is on for filtering and PM2.5 is low.



Indicates the blower motor is on for filtering.



Indicates the blower motor is off.



Indicates the status is not available.

MANUALLY REFRESHING THE INTERIOR AIR



Press the button on the touchscreen.

1. Press Auto Air Refresh.
2. Press Cabin Refresh.

Note: Climate control settings could change for about 90 seconds to help flow outside air into the cabin. You can change the blower motor speed to the settings you prefer.

Note: The climate control must be on to manually refresh the interior air.

AUTOMATICALLY REFRESHING THE INTERIOR AIR

If the cabin air recirculates continuously for longer than 35 minutes, climate control settings could change automatically for about 90 seconds to help flow outside air into the cabin.

Refreshing the Interior Air Upon Cabin Start

If the cabin is above 75°F (24°C) and the engine has been off for over 30 minutes, when you start the engine the climate control system settings could change for approximately 75 seconds to help flow outside air into the cabin.

Note: Refreshing may also occur if the climate control and blower motor were previously on.

Interior Air Quality

Refreshing the Interior Air Upon Remote Start

If the cabin is above 75°F (24°C) while parked for over 30 minutes, when you remote start the engine the climate control system settings could change for approximately 75 seconds to help flow outside air into the cabin.

AUTO AIR REFRESH HINTS

To further improve the air quality in the cabin:

- Adjust the windows and other cabin openings such as the moonroof.
- Switch recirculated air on or off.
- Manually refresh the interior air.
- Adjust the blower motor speed.
- Replace the cabin air filter at regular intervals.

INTERIOR AIR QUALITY – TROUBLESHOOTING

INTERIOR AIR QUALITY – INFORMATION MESSAGES

Note: Depending on your vehicle options, not all messages display or are available. Certain messages may be abbreviated or shortened depending upon which cluster type you have.

Message	Action
Environmental Limit	Allow time for the cabin PM2.5 sensor to cool down, warm up, or dry out.

Front Seats

FRONT SEAT PRECAUTIONS

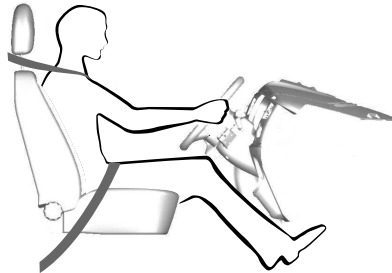
WARNING: Sitting improperly, out of position or with the seatback reclined too far can take weight off the seat cushion and affect the decision of the passenger sensing system, resulting in serious injury or death in the event of a crash. Always sit upright against your seat back, with your feet on the floor.

WARNING: Do not recline the seat backrest too far as this can cause the occupant to slide under the seatbelt, resulting in personal injury in the event of a crash.

WARNING: Do not place objects higher than the top of the seat backrest. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.

WARNING: Do not adjust the driver seat or seat backrest when your vehicle is moving. This may result in sudden seat movement, causing the loss of control of your vehicle.

SITTING IN THE CORRECT POSITION



When you use them properly, the seat, head restraint, seatbelt and airbags will provide optimum protection in the event of a crash.

We recommend that you follow these guidelines:

- Sit in an upright position with the base of your spine as far back as possible.
- Do not recline the seat backrest so that your torso is more than 30 degrees from the upright position.
- Adjust the head restraint so that the top of it is level with the top of your head and as far forward as possible. Make sure that you remain comfortable.
- Keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 10 in (25 cm) between your breastbone and the airbag cover.
- Hold the steering wheel with your arms slightly bent.

Front Seats

- Bend your legs slightly so that you can press the pedals fully.
- Position the shoulder strap of the seatbelt over the center of your shoulder and position the lap strap tightly across your hips.

Make sure that your driving position is comfortable and that you can maintain full control of your vehicle.

POWER SEATS


HEAD RESTRAINT COMPONENTS




The front seat head restraints consists of:

- A An energy absorbing head restraint.
- B Two steel stems.
- C Guide sleeve adjust and unlock button.

ADJUSTING THE HEAD RESTRAINT

 **WARNING:** Fully adjust the head restraint before you sit in or operate your vehicle. This will help minimize the risk of neck injury in the event of a crash. Do not adjust the head restraint when your vehicle is moving.

 **WARNING:** The head restraint is a safety device. Whenever possible it should be installed and properly adjusted when the seat is occupied. Failure to adjust the head restraint properly could reduce its effectiveness during certain impacts.



WARNING: Adjust the head restraints for all passengers before you drive your vehicle. This will help minimize the risk of neck injury in the event of a crash. Do not adjust the head restraints when your vehicle is moving.

To raise the head restraint, pull the head restraint up.

To lower the head restraint:

1. Press and hold the adjust and release button.
2. Push the head restraint down.

To tilt the head restraint - if equipped:

Front Seats



1. Adjust the seat backrest to an upright position.
2. Pivot the head restraint forward toward your head to the preferred position.

After the head restraint reaches the forward-most tilt position, pivot it forward again to release it to the rearward, untilted position.

Note: Do not attempt to force the head restraint backward after it is tilted. Instead, continue tilting it forward until the head restraint releases to the upright position.

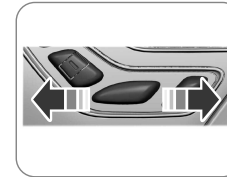
REMOVING THE HEAD RESTRAINT

1. Pull up the head restraint until it reaches its highest position.
2. Press and hold the adjust and unlock button.
3. Pull up the head restraint.

INSTALLING THE HEAD RESTRAINT

Align the steel stems into the guide sleeves and push the head restraint down until it locks.

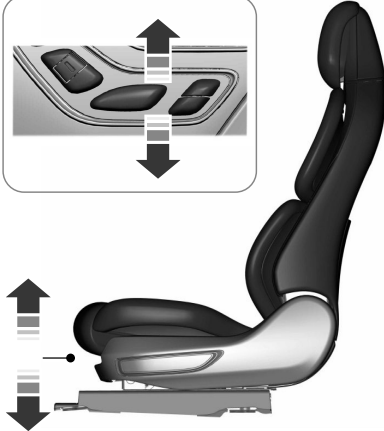
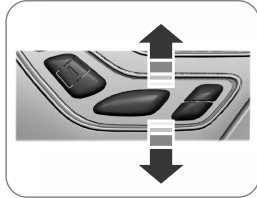
MOVING THE SEAT BACKWARD AND FORWARD



Front Seats

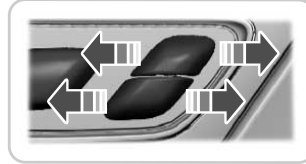
ADJUSTING THE SEAT CUSHION (If

Equipped)



Adjusting the Length of the Seat

Cushion (If Equipped)



E285685

ADJUSTING THE SEAT BACKREST

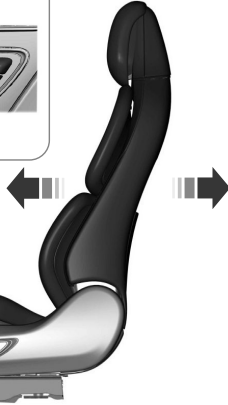
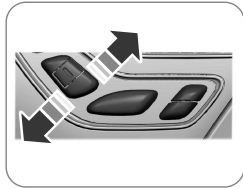


WARNING: Do not place cargo or any objects behind the seatback before returning it to the original position.

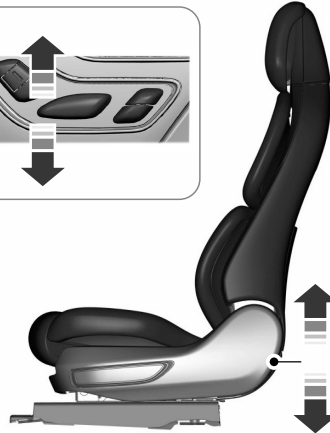
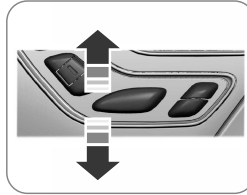


WARNING: Do not adjust the driver seat or seat backrest when your vehicle is moving. This may result in sudden seat movement, causing the loss of control of your vehicle.

Front Seats



ADJUSTING THE SEAT HEIGHT



MASSAGE SEATS (IF EQUIPPED)

MASSAGE SEAT LIMITATIONS

The engine must be running or the vehicle must be in accessory mode to activate the seats.

Allow a few seconds for any selection to activate. The seat backrest and cushion massage cannot function at the same time.

ADJUSTING THE MASSAGE SEAT SETTINGS

You can adjust this feature through the touchscreen.

ADJUSTING THE LUMBAR SUPPORT

(If Equipped)



Press this button on the door to access the lumbar menu on the touchscreen.

Front Seats

HEATED SEATS

HEATED SEAT PRECAUTIONS



WARNING: Use caution when using the heated seat if you are unable to feel pain to your skin because of advanced age, chronic illness, diabetes, spinal cord injury, medication, alcohol use, exhaustion or other physical conditions. The heated seat could cause burns even at low temperatures, especially if used for long periods of time. Failure to follow this instruction could result in personal injury.



WARNING: Do not poke sharp objects into the seat cushion or seat backrest. This could damage the heated seat element and cause it to overheat. Failure to follow this instruction could result in personal injury.



WARNING: Do not place anything on the seat that blocks the heat, for example a seat cover or a cushion. This could cause the seat to overheat. Failure to follow this instruction could result in personal injury.

Do not:

- Place heavy objects on the seat.
- Operate the heated seat if water or any other liquid spills on the seat. Allow the seat to dry.

SWITCHING THE HEATED SEATS ON AND OFF

The vehicle must be running to use this feature.



Press the seat symbol on the touchscreen to switch on the heated seats. Then, slide the menu bar up to control the heat intensity. The more indicators that display, the warmer the temperature of the seat.

Note: *The heated seats may remain on after you remote start your vehicle, based on your remote start settings.*

Note: *The heated seats may turn on when you start your vehicle if they were on when you switched your vehicle off.*

Note: *Select Auto to heat your seat based on your climate control settings, humidity and air temperature.*

Front Seats

VENTILATED SEATS (IF EQUIPPED)

SWITCHING THE VENTILATED SEATS ON AND OFF

The vehicle must be running to use this feature.



Press the seat symbol on the touchscreen to switch on the cooled seats. Then, slide the menu bar down to control the fan speed. More indicator lights indicate higher fan speeds.

Note: *The ventilated seats switch on during a remote start if they are enabled.*

Note: *The ventilated seats may switch on when you start your vehicle if they were on when you previously switched your vehicle off.*

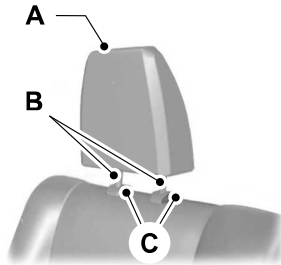
Note: *Select Auto to ventilate your seat based on your climate control settings, humidity and air temperature.*

Rear Seats

MANUAL SEATS

HEAD RESTRAINT COMPONENTS

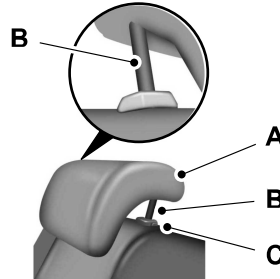
Outermost Head Restraints



The head restraints consist of:

- A An energy absorbing head restraint.
- B Two steel stems.
- C Guide sleeve unlock and remove buttons.

Center Head Restraint



The head restraint consists of:

- A An energy absorbing head restraint.
- B Two steel stems.
- C Guide sleeve unlock and remove button.

ADJUSTING THE HEAD RESTRAINT

Raising the Head Restraint

To raise the center head restraint, pull the head restraint up.

Lowering the Head Restraint

1. Press and hold the adjust and unlock button.
2. Push the head restraint down.

REMOVING THE HEAD RESTRAINT

Outermost Head Restraints

1. Pull the head restraint up until it reaches its highest position.
2. Press and hold the guide sleeve adjust and unlock button, and the unlock and remove button.
3. Pull the head restraint up.

Center Head Restraint

1. Pull the head restraint up until it reaches its highest position.

Rear Seats

2. Press and hold the guide sleeve unlock and remove button.
3. Pull the head restraint up.

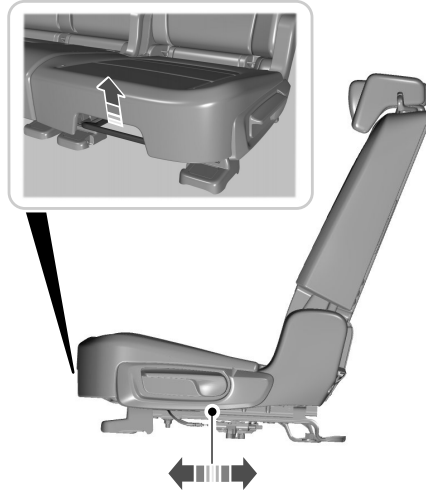
INSTALLING THE HEAD RESTRAINT

Align the steel stems into the guide sleeves and push the head restraint down until it locks.

MOVING THE SEAT BACKWARD AND FORWARD



WARNING: Make sure the seat fully locks into place by rocking it backward and forward.



ADJUSTING THE SEAT BACKREST

With the seat occupied, pull the lever on the side of the seat cushion up to recline the seat backrest.

FOLDING THE SEAT BACKREST



WARNING: To prevent possible damage to the seat or seatbelts, make sure that the seatbelts are not fastened before folding the seatback.



WARNING: When folding or unfolding the seats, take care not to get your fingers caught between the seat backrest and seat frame. Failure to follow this warning could result in serious personal injury.



WARNING: Do not place any objects on a folded seat. Hard objects may become projectiles in a crash or sudden stop, which may increase the risk of serious personal injury.

Rear Seats



With the seat empty, pull the lever up to fold the seat backrest forward. You may need to lower the center head restraint first.

UNFOLDING THE SEAT BACKREST

WARNING: When unfolding the seat backrests, make sure that the seatbelts are not trapped behind the seat.

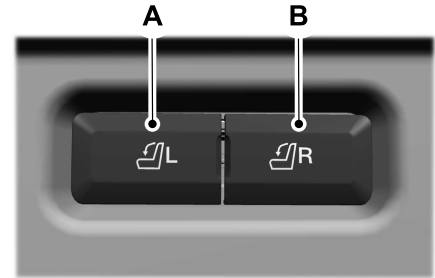
WARNING: Make sure that the seats and the seat backrests are secure and fully locked in their catches.

Pull the seat backrest up to unfold.

POWER SEATS (IF EQUIPPED)

FOLDING THE SEAT BACKREST

WARNING: Do not fold a seat if it is occupied. Failure to follow this instruction could result in personal injury.



- A Folds the left-hand rear seat backrest.
- B Folds the right-hand rear seat backrest.

Press and hold the button for a few seconds to fold the corresponding seat.

Rear Seats

HEATED SEATS (IF EQUIPPED)

HEATED SEAT PRECAUTIONS



WARNING: Use caution when using the heated seat if you are unable to feel pain to your skin because of advanced age, chronic illness, diabetes, spinal cord injury, medication, alcohol use, exhaustion or other physical conditions. The heated seat could cause burns even at low temperatures, especially if used for long periods of time. Failure to follow this instruction could result in personal injury.



WARNING: Do not poke sharp objects into the seat cushion or seat backrest. This could damage the heated seat element and cause it to overheat. Failure to follow this instruction could result in personal injury.



WARNING: Do not place anything on the seat that blocks the heat, for example a seat cover or a cushion. This could cause the seat to overheat. Failure to follow this instruction could result in personal injury.

Do not:

- Place heavy objects on the seat.
- Operate the heated seat if water or any other liquid spills on the seat. Allow the seat to dry.

SWITCHING THE HEATED SEATS ON AND OFF

The vehicle must be running to use this feature.

The rear seat heat controls are on the rear of the center console.



Press the heated seat symbol to cycle through the various heat settings and off. More indicator lights indicate warmer settings.

The heated seats turn off when you switch off the vehicle.

Rear Occupant Alert System

WHAT IS THE REAR OCCUPANT ALERT SYSTEM

The rear occupant alert system monitors the vehicle conditions and notifies you to check for rear seat occupants when you switch the ignition off. The notifications can be in the form of warnings inside the vehicle or sounding of the horn for a short period of time. There are also notifications from the Lincoln Way app if your vehicle is equipped to send rear occupant alerts to the app.

HOW DOES THE REAR OCCUPANT ALERT SYSTEM WORK

The system monitors the activity of the buckle on the rear seatbelt and the opening and closing of the rear doors to indicate the potential presence of an occupant in the rear seat.

When a child seat is installed, the system monitors only the opening and closing of the rear doors to indicate the potential presence of an occupant in the rear seat.

When a child seat is not installed, the system monitors the rear seatbelt buckle activity and the opening and closing of the rear doors to indicate the potential presence of an occupant in the rear seat.

A message displays in the touchscreen and an audible warning sounds when you switch the ignition off after any of the following conditions have been met:

- A rear door is opened or closed while the ignition is on.
- You switch the ignition on within 15 minutes of a rear door opening and closing.
- You switch the ignition on within 15 minutes of the alert having displayed or sounded.

If you do not open a rear door within a short period of time of closing the driver door after you switch the ignition off, the horn sounds for a short period of time.

Note: *Horn sounds only when the Rear Occupant Alert is set to Alert & Horn. If you change the setting, then there will be no horn.*

Lincoln Way App Notifications (If Equipped)

If you do not open a rear door within five minutes of closing the driver door after you switch the ignition off, an alert is sent to your Lincoln Way App. Additional alerts are sent every five minutes or until a rear door is opened. You have the option to snooze or dismiss these alerts within the app.

Note: *The Lincoln Way alert repeats up to four times.*

Note: *You must be logged into the Lincoln Way app to be able to receive the notifications.*

Rear Occupant Alert System

REAR OCCUPANT ALERT SYSTEM PRECAUTIONS



WARNING: On hot days, the temperature inside the vehicle can rise very quickly. Exposure of people or animals to these high temperatures for even a short time can cause death or serious heat related injuries, including brain damage. Small children are particularly at risk.



WARNING: Do not leave children or pets unattended in your vehicle. Failure to follow this instruction could result in personal injury or death.

REAR OCCUPANT ALERT SYSTEM LIMITATIONS

The system does not detect the presence of objects or passengers in the rear seat. It monitors the activity of the buckle on the rear seatbelt and the opening and closing of the rear doors.

Note: *It is possible to receive an alert when there is no rear seat occupant, but alert conditions are met.*

Note: *It is possible to receive no alert when there is an occupant in the rear seat, if alert conditions are not met. For example, if a rear seat occupant does not enter the vehicle through a rear door.*

REAR OCCUPANT ALERT SYSTEM SETTINGS

Selecting Alerts and Switching Rear Occupant Alert System On and Off

1. Press **Settings** on the touchscreen.
2. Press **Vehicle**.
3. Press **Rear Occupant Alert**.
4. Select **Alert & Horn** or **Alert Only** or **Off**.

Note: *The default setting is Alert & Horn. Selecting Alert & Horn or Alert Only enables the warnings inside the vehicle and the Lincoln Way alert.*

Note: *If you choose Alert Only, the horn does not sound even when the alert conditions are met.*

Note: *If the driver data or vehicle data is turned off, the vehicle still sends rear occupant alert Lincoln Way notifications. If the entire connectivity setting is turned off, the vehicle does not send any Lincoln Way messages including the rear occupant alert Lincoln Way notification.*

Note: *Performing a master reset causes the system to switch on again.*

Switching Child Seat Installed On and Off

Make sure to switch the Child Seat Installed on when a child restraint is installed in your vehicle. When the Child Seat Installed is switched on, the system monitors the opening and closing of the rear doors to indicate the potential presence of an occupant in the rear seat.

You can switch the Child Seat Installed on or off from the touchscreen.

1. Press **Settings** on the touchscreen.

Rear Occupant Alert System

- 2. Press **Vehicle**.
- 3. Press **Rear Occupant Alert**.
- 4. Switch **Child Seat Installed** on or off.

Note: The default setting is *ON*.

Child Seat Installed should be switched on when the child is using any of the following:

- Forward facing child restraints.
- Rear facing child restraints.
- Child restraints using the LATCH system.

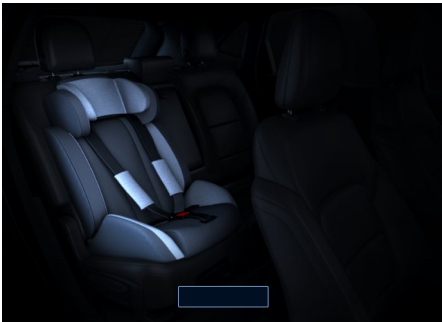
Child Seat Installed should be switched off when the child is using any of the following:

- Seatbelt.
- Booster seat.

Semiannual Reminder

When you switch the system off, a message appears every six months as a reminder that the system is off. You can switch the system back on or leave it off.

REAR OCCUPANT ALERT SYSTEM INDICATORS



Message
Check rear seats for occupants.

Displays when you switch your vehicle off after the alert conditions are met.

The message displays for a short period of time. Press **Close** to acknowledge and remove the message.

Note: Depending on your SYNC version, the graphic may look different from what you see [here](#).

REAR OCCUPANT ALERT SYSTEM AUDIBLE WARNINGS

The first audible warning is an alert tone within the vehicle, which sounds when you switch your vehicle off after the alert conditions are met. The warning sounds for a short period of time.

The second audible warning is from the horn. It sounds when you do not open a rear door within a short period of time of closing the driver door after you switch the ignition off. The warning sounds for a short period of time.

Memory Function (If Equipped)

HOW DOES THE MEMORY FUNCTION WORK

The memory function recalls the position of these features:

- Driver seat.
- Power mirrors.
- Optional power steering column.

MEMORY FUNCTION PRECAUTIONS



WARNING: Before activating the memory seat, make sure that the area immediately surrounding the seat is clear of obstructions and that all occupants are clear of moving parts.



WARNING: Do not use the memory function when your vehicle is moving.

LOCATING THE MEMORY FUNCTION BUTTONS



E283882

The memory control is on the driver door.

SAVING A PRESET POSITION

1. Switch the ignition on.
2. Adjust the memory features to your preferred position.
3. Press and hold the preferred preset button until you hear a single tone.

A confirmation message appears in the information cluster display.

You can save up to three preset memory positions at any time.

RECALLING A PRESET POSITION

Press and release a preset button.

Note: You can only recall a preset memory position when the ignition is off, or when you place the transmission in park (P) or neutral (N) if the ignition is on and the vehicle is not moving.

Note: Pressing any of the memory feature controls during a memory recall cancels the operation.

You can also recall a preset memory position by:

- Pressing the unlock button on your remote control if you linked it to a preset position.
- Unlocking the intelligent driver door handle if a linked remote control is present.

Memory Function (If Equipped)

Note: *Using a linked remote control to recall your memory position when the ignition is off moves the seat and steering column to the easy entry position.*

Garage Door Opener (If Equipped)

GARAGE DOOR OPENER INTRODUCTION

HomeLink Wireless Control System

The universal garage door opener replaces the common handheld garage door opener with a three-button transmitter integrated into the driver-side sun visor.



How Does The Garage Door Opener Work

The system includes two primary features, a garage door opener and a platform for remote activation of devices within the home. You can program garage doors as well as entry gate operators, security systems, entry door locks and home or office lighting.


Additional assistance can be found online at www.homelink.com/Ford or by calling the toll-free help line at 1-800-355-3515.

Garage Door Opener Limitations

Canadian radio-frequency laws require transmitter signals to time out, or quit, after several seconds – which may not be long enough for HomeLink to pick up the signal. U.S. gate operators time-out in the same manner.

GARAGE DOOR OPENER PRECAUTIONS AND FREQUENCIES

Garage Door Opener Precautions

 **WARNING:** Do not use the system with any garage door opener that does not have the safety stop and reverse feature as required by U.S. Federal Safety Standards (this includes any garage door opener manufactured before April 1, 1982). A garage door opener which cannot detect an object, signaling the door to stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.

Garage Door Opener (If Equipped)

FCC and RSS-210 Industry Canada Compliance



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

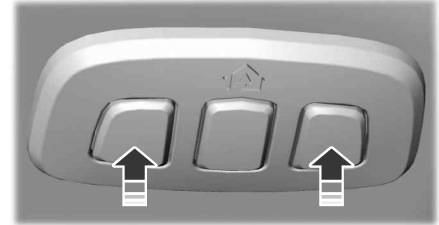
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End Users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 8 in (20 cm) from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

PROGRAMMING THE GARAGE DOOR OPENER

To clear all stored codes in the garage door opener in your vehicle, use the **clear** function. To override one button, use the **reprogram** function.

Note: *Make sure that the garage door and security device are free from obstruction when you are programming. Do not program the system with the vehicle in the garage.*

Clearing the Garage Door Opener



To clear all stored codes in the garage door opener in the vehicle:

1. Press and hold the outer two function buttons simultaneously for approximately 10 seconds until the indicator above the buttons flashes rapidly.
2. When the indicator flashes, release the buttons.

Note: *This clears all stored codes. You cannot erase individual buttons.*

Garage Door Opener (If Equipped)

Note: You can program a maximum of three devices. To change or replace any of the three devices after they have been initially programmed, you must either clear all codes, or reprogram each individual button.

Note: We recommend that upon the sale or lease termination of your vehicle, you erase the programmed function buttons for security reasons.

Reprogramming the Garage Door Opener

If a button on your garage door opener has already been programmed, you can override it. To program a device to a previously trained button:

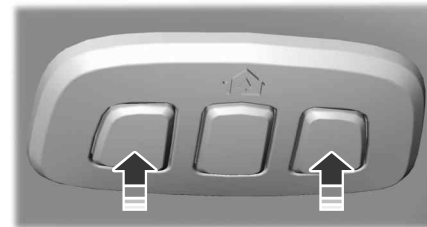
1. Press and hold the desired button for approximately 20 seconds until the indicator begins to flash.
2. Without releasing the button, proceed to Step 3 of **Programming the Garage Door Opener to your Handheld Transmitter**.

Programming the Garage Door Opener to your Handheld Transmitter

Note: The programming steps below assume you are programming a HomeLink that was not previously programmed. If your HomeLink was previously programmed, you may need to **clear** or **reprogram** your HomeLink buttons.

Note: Put a new battery in the handheld transmitter. This allows for quicker training and accurate transmission of the radio-frequency signal.

Note: Make sure that the garage door and security device are free from obstruction when you are programming. Do not program the system with the vehicle in the garage.



To program your in-vehicle HomeLink function button with your handheld transmitter:

1. With your vehicle parked outside of the garage, switch your vehicle on, but do not start your vehicle.
2. Press and release one of the three HomeLink function buttons that you would like to program.

Note: The indicator should begin to flash. If the indicator does not flash, press and hold the function button for 20 seconds until the indicator begins to flash.

Garage Door Opener (If Equipped)

3. Hold your handheld garage door transmitter 1–3 in (2–8 cm) away from the HomeLink button you want to program.
4. Press and hold the handheld transmitter button you want to program while watching the indicator on HomeLink. Continue to hold the handheld button until the HomeLink indicator flashes rapidly or is continuously on.

Note: You may need to use a different method if you live in Canada or have difficulties programming your gate operator or garage door opener.

5. Press and hold the HomeLink button you programmed for two seconds, then release. You may need to do this twice to activate the door.

Note: If the indicator stays on, the programming is complete.

Note: If the HomeLink indicator flashes rapidly, repeat Step 5.

Note: If your device still does not operate, you must program your garage door.

6. To program additional buttons, repeat Steps 1–4.

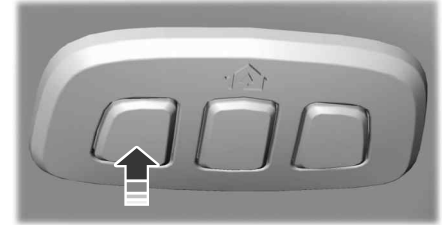
Note: Make sure you keep the original remote control transmitter for use in other vehicles as well as for future system programming.

Programming the Garage Door Opener to your Garage Door Opener Motor

Note: Make sure that the garage door and security device are free from obstruction when you are programming. Do not program the system with the vehicle in the garage.



1. Press the learn button on the garage door opener motor and then you have 30 seconds to complete the next two steps.
2. Return to your vehicle.



3. Press and hold one of the three HomeLink function buttons you want to program for two seconds, then release.
4. Repeat Step 3. Depending on your brand of garage door opener, you may need to repeat this sequence a third time.

Additional assistance can be found online at www.homelink.com/Ford or by calling the toll-free help line at 1-800-355-3515.

Garage Door Opener (If Equipped)

Programming the Garage Door Opener to your Gate Opener Motor

Gate Operator / Canadian Programming

Canadian radio-frequency laws require transmitter signals to time-out (or quit) after several seconds of transmission – which may not be long enough for HomeLink to pick up the signal during programming. Similar to this Canadian law, some U.S. gate operators are designed to time-out in the same manner.

Note: *If programming a garage door opener or gate operator, it is advised that you unplug the device during the **cycling** process to prevent possible overheating.*

1. Press and release your handheld transmitter, **every two seconds**, until the HomeLink indicator flashes rapidly or is continuously on.
2. Release the handheld transmitter button.
3. Press and hold the HomeLink function button you want to program for two seconds, then release. You may need to do this twice to activate the door.

Note: *If the indicator stays on, the programming is complete.*

Note: *If the HomeLink indicator flashes rapidly, repeat Step 3.*

4. To program additional buttons, repeat Steps 1–4.

Additional assistance can be found online at www.homelink.com/Ford or by calling the toll-free help line at 1-800-355-3515.

GARAGE DOOR OPENER ADDITIONAL ASSISTANCE

Video Setup Instructions

[Universal Garage Door Opener: HomeLink](#)

[Universal Garage Door Opener: HomeLink for Genie Intellicode 2](#)

[Universal Garage Door Opener Homelink for Genie Intellicode](#)

Additional assistance can be found online at www.homelink.com/Ford or by calling the toll-free help line at 1-800-355-3515.

USB Ports

LOCATING THE USB PORTS

Data Transfer USB Ports



The USB ports could be in the following locations:

- On the lower instrument panel.
- Inside the center console.

Note: *These USB ports can also charge devices.*

Note: *Not all USB ports in your vehicle have data transfer capabilities.*

Note: *We recommend using only USB-IF certified cables and adapters. Non-certified cables and adapters may not work.*

Charge Only USB Ports



The USB ports could be in the following locations:

- On the lower instrument panel.
- On the upper instrument panel.
- Inside the media bin.
- Inside the center console.
- On the rear of the center console.
- In the cargo area.

PLAYING MEDIA USING THE USB PORT



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Connect your device to a data transfer USB port.



Press the audio button on the feature bar.

Select **Sources**.



Select the USB option.



Press to play a track. Press again to pause the track.



Press to skip to the next track.

Press and hold to fast forward through the track.



Press once to return to the beginning of a track. Repeatedly press to return to previous tracks.

Press and hold to fast rewind.

CHARGING A DEVICE

Connect your device to the USB port.

USB Ports

Data Transfer USB Ports



You can charge your device through the data transfer USB port when SYNC is on.

Charge Only USB Ports



You can charge your device through the charge only USB port when the vehicle is in accessory mode or when the vehicle is running.

Power Outlet

WHAT IS THE POWER OUTLET

The power outlet can power devices using a 12 V outlet adapter.

POWER OUTLET PRECAUTIONS



WARNING: Do not plug optional electrical accessories into the cigar lighter socket. Incorrect use of the cigar lighter can cause damage not covered by the vehicle warranty, and can result in fire or serious injury.

When you switch the vehicle on, you can use the socket to power 12 V appliances with a maximum current rating of 20 A. Do not use the power point over the vehicle capacity of 12 V DC 240 W or a fuse could blow. Do not plug in any device that supplies power to the vehicle through the power points. This could result in damage to vehicle systems. Do not hang any accessory from the accessory plug. Always keep the power point caps closed when not in use. Do not insert objects other than an accessory plug into the power point.

To prevent the battery from running out of charge:

- Do not use the power point longer than necessary when the vehicle is off.
- Do not leave devices plugged in overnight or when you park your vehicle for extended periods.

LOCATING THE POWER OUTLETS

Power outlets may be in the following locations:

- On the lower instrument panel.
- Inside the center console.
- On the front of the center console.
- On the rear of the center console.
- In the cargo area.
- On the passenger side floor panel.
- 3rd row on the quarter trim panels.

Wireless Accessory Charger (If Equipped)

WHAT IS THE WIRELESS ACCESSORY CHARGER

The wireless accessory charger allows you to charge one compatible Qi wireless charging device on the charging area.

WIRELESS ACCESSORY CHARGER PRECAUTIONS



WARNING: Wireless charging devices can affect the operation of implanted medical devices, including cardiac pacemakers. If you have any implanted medical devices, we recommend that you consult with your physician.

Keep the charging area clean and remove foreign objects prior to charging a device.

Do not place items with a magnetic strip or radio-frequency identification chip, for example passports, parking tickets, transportation passes or credit cards, near the charging area when charging a device. Damage could occur to the magnetic strip or radio-frequency identification chip.

Do not place metal objects, for example remote controls, coins and candy wrappers, on or near the charging area when charging a device. Metal objects may heat up and degrade the charging performance, in addition to causing interruptions in charging.

Charging could be interrupted, degraded, or could stop if any of the following occur:

- The system detects a foreign object.
- The device is misaligned on the charging area.
- The device moves on the active charging area when the vehicle is in motion.
- The vehicle ambient temperature is too high.
- You attempt to charge a non-Qi compatible device on the wireless charger.

Note: During charging, the device and the charger could heat up, this is normal. If the battery gets hotter than usual, the device may stop charging.

LOCATING THE WIRELESS ACCESSORY CHARGER



The charging area is on the center console or in the media bin below the instrument panel.

CHARGING A WIRELESS DEVICE

Place the device on the center of the charging surface with the charging side down. The charging stops after your device reaches a full charge.

You can use the charger when the vehicle is in accessory mode, when the vehicle is running, or when SYNC is on.



Displays on the status bar when wireless charging is in progress.

Wireless Accessory Charger (If Equipped)

Note: The charging performance may be affected if your device is in a case. It may be necessary to remove the case to wirelessly charge your device.

Note: Software and firmware updates may affect device compatibility, including the use of unofficial software or firmware. You should verify charging functionality with your specific devices in-vehicle.

WIRELESS ACCESSORY CHARGER – TROUBLESHOOTING

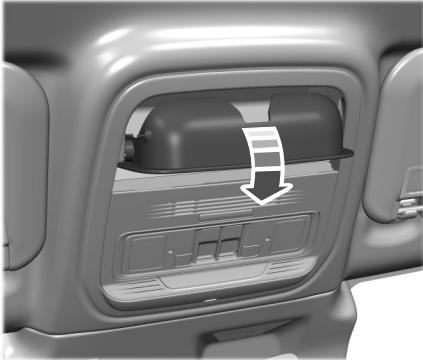
WIRELESS ACCESSORY CHARGER – INFORMATION MESSAGES

Message	Behavior	Description
Phone misaligned or object between phone and charger detected. Correct the condition to resume charging.	Pop-up window.	The system stops charging your device if the system detects the phone is misaligned, or a foreign metal object is on the charging surface.

Storage

OVERHEAD STORAGE

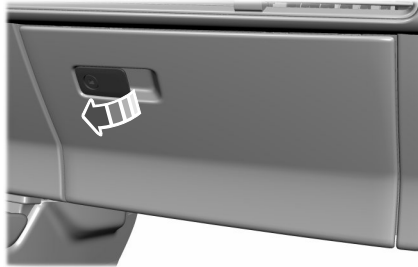
OPENING THE OVERHEAD STORAGE COMPARTMENT



Press near the rear edge of the door to open.

GLOVE COMPARTMENT

OPENING THE GLOVE COMPARTMENT



Pull the latch to the left to open.

CENTER CONSOLE


OPENING THE CENTER CONSOLE





Pull the latch to open the center console.


Starting and Stopping the Engine


STARTING AND STOPPING THE ENGINE – PRECAUTIONS

 **WARNING:** Extended idling at high engine speeds can produce very high temperatures in the engine and exhaust system, creating the risk of fire or other damage.

 **WARNING:** Do not park, idle or drive your vehicle on dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, creating the risk of fire.

 **WARNING:** Do not start the engine in a closed garage or in other enclosed areas. Exhaust fumes are toxic. Always open the garage door before you start the engine. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** Do not use starting fluid, for example ether, in the air intake system. Such fluid could cause immediate explosive damage to the engine and possible personal injury.

 **WARNING:** Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment. If you smell exhaust fumes inside your vehicle, have your vehicle inspected immediately. Do not drive if you smell exhaust fumes.

The powertrain control system meets all Canadian interference-causing equipment standard requirements regulating the impulse electrical field or radio noise.

Note: *If you use your vehicle regularly above the altitude of 7,500 ft (2,286 m) and under the temperature of -4.0°F (-20°C), it is recommended to use the alternative engine oil. See **Capacities and Specifications** (page 495).*

If you stop your vehicle and leave the engine idling for long periods, we recommend that you do one of the following:

- Open the windows at least 1 in (2.5 cm).
- Set your climate control to outside air.

PUSH BUTTON IGNITION SWITCH



Switching the Ignition Off

When the ignition is on or in accessory mode, press the push button ignition switch once without your foot on the brake pedal.

Switching the Ignition to Accessory Mode

When the ignition is off, press the push button ignition switch once without your foot on the brake pedal.

Starting and Stopping the Engine

All electrical circuits and accessories are operational and the warning lamps and indicators illuminate.

Note: Your vehicle has a battery saver feature that shuts your vehicle off when it detects a certain amount of battery drain, or after approximately 30 minutes of inactivity in accessory mode.

Note: The system may not function if the remote control is close to metal objects or electronic devices, for example keys or a cell phone.

Note: You need a valid key inside your vehicle to switch the ignition on and start the engine.

STARTING THE ENGINE

STARTING A GASOLINE ENGINE

Before starting your vehicle, check the following:

- Make sure that the headlamps and electrical accessories are off.
- Make sure that the parking brake is on.
- Make sure that the transmission is in park (P).

1. Fully press the brake pedal.

Note: Do not touch the accelerator pedal.



2. Press the push button ignition switch.

Note: The engine may continue cranking for up to 15 seconds or until it starts.

Note: The engine takes longer to start at lower temperatures. It may crank for several seconds when very cold.

STARTING A HYBRID ELECTRIC VEHICLE SYSTEM

Before starting your vehicle, check the following:

- Make sure the headlamps and electrical accessories are off.
- Make sure the parking brake is on.
- Make sure the transmission is in park (P).

Note: Do not touch the accelerator pedal.

1. Fully press the brake pedal.



2. Press the push button ignition switch.

READY

When you start your vehicle, a green indicator light appears in the instrument cluster letting you know that your vehicle is ready for driving. Since your vehicle is equipped with a silent key start, the engine may not start when your vehicle starts.

Starting and Stopping the Engine

When the engine starts for the first time on your drive, the idle speed increases, this helps to warm up the engine. If the engine idle speed does not slow down, have your vehicle checked by an authorized dealer.

The system does not function if:

- The passive key frequencies are jammed.
- The key battery has no charge.

RESTARTING THE ENGINE AFTER STOPPING IT

The system allows you to start the engine within 10 seconds of switching it off, even if it does not detect a valid passive key.

Within 10 seconds of switching the engine off, fully press the brake pedal and press the push button ignition switch. After 10 seconds, you can no longer start the engine if the system does not detect a valid passive key.

When you start the engine, it remains running until you press the push button ignition switch, even if your vehicle does not detect a valid passive key. If you open and close a door when the engine is running, the system searches for a valid passive key.

ENGINE BLOCK HEATER (IF EQUIPPED)

ENGINE BLOCK HEATER PRECAUTIONS



WARNING: Failure to follow engine block heater instructions could result in property damage or serious personal injury.



WARNING: Do not use your heater with ungrounded electrical systems or two-pronged adapters. There is a risk of electrical shock.



WARNING: Do not fully close the hood, or allow it to drop under its own weight when using the engine block heater. This could damage the power cable and may cause an electrical short resulting in fire, injury and property damage.

We recommend that you do the following for a safe and correct operation:

- Use a 16-gauge outdoor extension cord that is product certified by Underwriter's Laboratory (UL) or Canadian Standards Association (CSA). This extension cord must be suitable for use outdoors, in cold temperatures, and be clearly marked Suitable for Use with Outdoor Appliances. Do not use an indoor extension cord outdoors. This could result in an electric shock or become a fire hazard.
- Use as short an extension cord as possible.
- Do not use multiple extension cords.
- Make sure that when in operation, the extension cord plug and engine block heater cord plug connections are free and clear of water. This could cause an electric shock or fire.
- If the engine block heater cord is under the hood, do not remove the wiring from its original location. Do not close the hood on the extension wiring.

Starting and Stopping the Engine

- Park your vehicle in a clean area, clear of combustible materials.
- Firmly connect the engine block heater cord and the extension cord.
- Check the extension cord for heat anywhere when the system has been operating for approximately 30 minutes.
- Unplug and properly stow the system before starting and driving your vehicle. The protective cover seals the terminals of the engine block heater cord plug when not in use.
- Check the engine block heater system for proper operation before winter.

HOW DOES THE ENGINE BLOCK HEATER WORK

The engine block heater warms the engine coolant. This allows the climate control system to quickly respond. The equipment includes a heater element installed in the engine block and a wire harness. You can connect the system to a grounded 110 volt AC electrical source.

Note: *The engine block heater is most effective when outdoor temperatures are below 0°F (-18°C). We recommend the use of engine block heater to improve engine cold start performance.*

USING THE ENGINE BLOCK HEATER

Make sure the receptacle terminals are clean and dry prior to use. Clean them with a dry cloth if necessary.

The heater uses 0.4 to 1.0 kilowatt-hours of energy per hour of use. The system does not have a thermostat. It achieves maximum temperature after approximately three hours of operation. Using the engine block heater longer than three hours does not improve system performance and unnecessarily uses electricity.

STOPPING THE ENGINE

STOPPING THE ENGINE WHEN YOUR VEHICLE IS STATIONARY

1. Shift into park (P).

2. Apply the parking brake.
3. Wait until the engine reaches idle speed.



4. Press the push button ignition switch.

STOPPING THE ENGINE WHEN YOUR VEHICLE IS MOVING



WARNING: Switching off the engine when your vehicle is still moving results in a significant decrease in braking assistance. Higher effort is required to apply the brakes and to stop your vehicle. A significant decrease in steering assistance could also occur. The steering does not lock, but higher effort could be

Starting and Stopping the Engine

required to steer your vehicle. When you switch the ignition off, some electrical circuits, for example airbags, also turn off. If you unintentionally switch the ignition off, shift into neutral (N) and restart the engine.



1. Press and hold the push button ignition switch until the engine stops, or press it three times within two seconds.
2. Shift into neutral and use the brakes to bring your vehicle to a safe stop.
3. Shift into park (P).
4. Apply the parking brake.

AUTOMATIC ENGINE STOP

WHAT IS AUTOMATIC ENGINE STOP

Automatic engine stop is a feature that switches the engine off if it has been idling for an extended period to help you save fuel.

HOW DOES AUTOMATIC ENGINE STOP WORK

Automatic engine stop turns the engine off. The ignition also turns off in order to save battery power. Before the engine shuts down, a message appears in the information display showing a timer counting down. If you do not intervene within 30 seconds, the engine shuts down. Another message appears in the information display to inform you that the engine has shut down in order to save fuel. Start your vehicle as you normally do.

SWITCHING AUTOMATIC ENGINE STOP ON AND OFF

1. Press **Settings** on the touchscreen.

2. Press **Vehicle Settings**.

3. Switch **30min Max Idle** on or off.

Note: You cannot permanently switch off the automatic shutdown. If you switch it off, it turns on each time you switch the ignition on.

OVERRIDING AUTOMATIC ENGINE STOP

You can stop the engine shutdown, or reset the timer, at any point before the 30-second countdown has expired by doing any of the following:

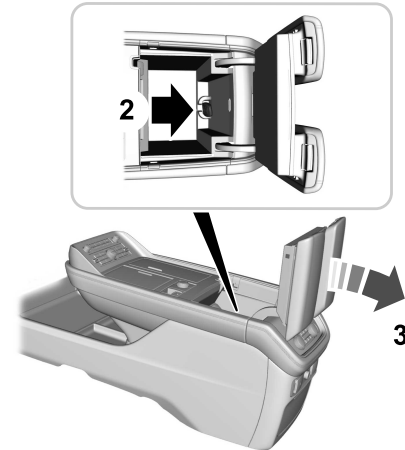
- Pressing the brake pedal or accelerator pedal.
- Pressing the **OK** or **RESET** button during the countdown.

Note: You cannot permanently switch off the automatic engine shutdown feature. When you switch it off temporarily, it turns on at the next ignition cycle.

Starting and Stopping the Engine

ACCESSING THE PASSIVE KEY BACKUP POSITION

If you are unable to start your vehicle, do the following:



1. Access the backup slot.
2. With the buttons facing the front of your vehicle, place the passive key into the backup slot.
3. With the key in this position, press the brake pedal, then press the push button ignition switch to switch the ignition on and start your vehicle.

STARTING AND STOPPING THE ENGINE – TROUBLESHOOTING

STARTING AND STOPPING THE ENGINE – WARNING LAMPS

Malfunction Indicator Lamp



If it illuminates when the engine is running, the on-board diagnostics system is detecting a malfunction of the vehicle emission control system.

If it flashes, engine misfire could be occurring. Increased exhaust gas temperatures could damage the catalytic converter or other vehicle components. Avoid heavy acceleration and deceleration, and have your vehicle checked as soon as possible.

Powertrain Warning Lamp



If it illuminates when the engine is running, this indicates a powertrain or four-wheel drive fault. If it flashes when you are driving, immediately reduce the vehicle speed. Avoid heavy acceleration and deceleration, and have your vehicle checked as soon as possible.

If both lamps illuminate when the engine is running, stop your vehicle as soon as it is safe to do so. Continuing to drive your vehicle could cause reduced power or the engine to stop. Switch the ignition off and attempt to restart the engine. Have your vehicle checked as soon as possible.

Starting and Stopping the Engine

STARTING AND STOPPING THE ENGINE – INFORMATION MESSAGES

Message	Action
Cranking Time Exceeded	Displays if you exceed the starting time limit. You cannot attempt to start the engine for 15 minutes. If you cannot start the engine after 15 minutes passes, have your vehicle immediately checked.
Starting System Fault	Displays if you are unable to start your vehicle with a correctly coded key. The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
No Key Detected	Displays if the system does not detect a valid passive key.

Starting and Stopping the Engine

STARTING AND STOPPING THE ENGINE – FREQUENTLY ASKED QUESTIONS

Why is the engine idle speed high when I am starting the engine?

The speed at which the engine idles immediately after starting is optimized to minimize vehicle emissions and maximize cabin comfort and fuel economy.

Why does the engine not crank?

You can only attempt to start the engine for a limited amount of time before the starting system temporarily disables. If you exceed the starting time limit, a message may appear and you cannot attempt to start the engine for at least 15 minutes.

Why do I experience different driving characteristics?

If you disconnect the battery, your vehicle may exhibit some unusual driving characteristics for approximately 5 mi (8 km) after you reconnect it. This is because the engine management system must realign itself with the engine. You can disregard any unusual driving characteristics during this period.

Why can I not start the engine?

If you cannot start the engine after 3 attempts, wait 10 seconds and do the following:

1. Fully press the brake pedal or the clutch pedal.

Note: Make sure that the parking brake is applied.

Note: Make sure that the transmission is in park (P) or neutral (N).

2. Fully press the accelerator pedal and hold it there.
3. Press the push button ignition switch.

Note: The engine cranks for a short period of time and then it stops.

4. Release the accelerator pedal.



5. Press the push button ignition switch.

Why does the system not detect a passive key?

If the system does not detect a passive key and you are unable to start the engine, insert the passive key into the backup position and press the push button ignition switch to start the engine. See **Accessing the Passive Key Backup Position** (page 210).

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

WHAT IS A HYBRID ELECTRIC VEHICLE

A hybrid vehicle has an electric motor and a high voltage battery combined with a gasoline engine.

HOW DOES A HYBRID ELECTRIC VEHICLE WORK

The hybrid vehicle combines electric and gasoline propulsion to provide optimal performance and improved efficiency.

HYBRID ELECTRIC VEHICLE DRIVING CHARACTERISTICS

The gasoline engine starts and stops to provide power when required and to save fuel when not needed. When coasting at low speeds, coming to a stop or standing, the gas engine normally shuts down and your vehicle operates in electric-only mode.

Conditions that may cause the gasoline engine to start or remain running include:

- Considerable vehicle acceleration.
- Driving uphill.
- The high voltage battery charge level is low.
- Heating or cooling the vehicle interior in high or low outside temperatures.
- The gasoline engine is below normal operating temperature.
- Towing a trailer.
- Certain selectable drive modes could cause the engine to run. See **Selecting a Drive Mode** (page 338).

Your hybrid vehicle also comes with standard hydraulic braking and regenerative braking. Regenerative braking is performed by your transmission and captures brake energy and stores it in the high voltage battery.

You could also notice that your engine continues to run instead of shutting off during extended downhill driving. The engine stays on during this engine braking but is not using any fuel.

You could also hear a slight whine or whistle when operating your vehicle. This is the normal operation of the electric motor in the hybrid system.

Note: *Having your engine running is not always an indication of inefficiency. In some cases, it is actually more efficient than driving in electric mode.*

HYBRID ELECTRIC VEHICLE INDICATORS



When you start your vehicle, a green READY indicator light appears in the instrument cluster letting you know that your vehicle is ready for driving.

The engine may not start because your vehicle has a silent key start feature. This fuel saving feature allows your vehicle to be ready to drive without requiring the gas engine to be running.

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

The indicator remains on when your vehicle is on, whether the engine is running or not, to indicate your vehicle is capable of movement using the electric motor, gas engine or both.

Typically, the engine does not start unless the vehicle is cold, a climate control change is requested or you press the accelerator pedal.

HYBRID ELECTRIC VEHICLE INFORMATION – TROUBLESHOOTING

HYBRID ELECTRIC VEHICLE INFORMATION – WARNING LAMPS



Illuminates if your vehicle has an electrical component fault or failure that causes your vehicle to shut down or enter a limited operating mode. A message may appear in the instrument cluster display.

HYBRID ELECTRIC VEHICLE INFORMATION – INFORMATION MESSAGES

Message	Action
Stop Safely Now	Displays when a malfunction occurs in the high voltage electric system. Stop your vehicle as soon as it is safe to do so. Have your vehicle checked as soon as possible.

HYBRID ELECTRIC VEHICLE INFORMATION – FREQUENTLY ASKED QUESTIONS

What should I do if the vehicle runs out of fuel and the high voltage battery is out of charge?

Refuel and start your vehicle normally. The engine will recharge the high voltage battery.

Why does the engine sometimes start at key-on?

The vehicle's computer determines if an engine start is required at key-on. It starts the engine when necessary for cabin heating, windshield defrost, or if the outside temperature is low.

Can I put E15 or E85 in my vehicle, and how will it affect my fuel economy?

Your hybrid vehicle can use E15 (15% ethanol, 85% gasoline) fuel, but you may notice slightly reduced fuel economy because ethanol contains less energy per gallon than gasoline. Your hybrid vehicle is not designed to use E85 (85% ethanol).

Why does it take a long time before the engine shuts down?

There are several reasons the engine stays on for an extended amount of time when you first start it. One common reason is to make sure that the emissions components are warm enough to minimize tailpipe emission. As the climate gets cooler, the engine-on time is extended.

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

Why does my engine stay on when it is extremely cold outside?

In order to make sure that the climate control system can begin heating the cabin or defrosting the windshield as soon as a driver requests it, the engine coolant temperature has to be kept sufficiently hot. Keeping the engine on is required to maintain the correct coolant temperature.

PLUG-IN HYBRID ELECTRIC VEHICLE INFORMATION

WHAT IS A PLUG-IN HYBRID ELECTRIC VEHICLE

A plug-in hybrid electric vehicle combines a gasoline engine with an electric motor and rechargeable high voltage battery allowing you to use only electricity to power your vehicle.

HOW DOES A PLUG-IN HYBRID ELECTRIC VEHICLE WORK

Charging your vehicle adds electrical energy that propels the vehicle, providing extended electric-only driving range. System conditions could require the engine to operate while electric-only range is still available. When the electric range reaches zero, the powertrain system operates as a hybrid electric vehicle. See **How Does a Hybrid Electric Vehicle Work** (page 213).

PLUG-IN HYBRID ELECTRIC VEHICLE DRIVING CHARACTERISTICS

Your plug-in hybrid vehicle shares the driving characteristics of hybrid electric vehicles with the addition of extended electric-only driving range and unique selectable drive modes. See **Hybrid Electric Vehicle Driving Characteristics** (page 213).

The system maximizes the use of electric-only operation in normal drive mode. System conditions could require the engine to operate, however, the system uses the available electric range whenever possible.

In Pure EV drive mode, your vehicle typically uses only electric power. The engine operates to provide extra power when you fully press the accelerator pedal. System conditions may also require the engine to operate.

Preserve EV drive mode saves the electric range for later use. If you select this mode and the battery is at full or near full charge, it uses some electric-only range to discharge the battery. This allows the regenerative braking system to fully operate. If battery charge is low when this mode is selected the engine charges the high voltage battery to provide some electric range for later.

Other drive modes use electric power as necessary to deliver the selected drive mode experience. See **What Is Drive Mode Control** (page 338).

PLUG-IN HYBRID ELECTRIC VEHICLE INDICATORS

READY When you start your vehicle, a green ready indicator light appears in the instrument cluster letting you know that your vehicle is ready for driving.

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

The engine may not start because your vehicle has a silent key start feature. This fuel saving feature allows your vehicle to be ready to drive without requiring the gas engine to be running.

The indicator remains on when your vehicle is on, whether the engine is running or not, to indicate your vehicle is capable of movement using the electric motor, gas engine or both.

Typically, the engine does not start unless the vehicle is cold, a climate control change is requested or you press the accelerator pedal.

WHAT IS LOW ENGINE USE MODE

Low engine use mode maintains proper engine lubrication at sufficient temperature and activates when you drive your vehicle with limited engine operation.

HOW DOES LOW ENGINE USE MODE WORK

When in low engine use mode, your vehicle runs the engine as necessary. When low engine use mode begins, a message appears in the information display. If low engine use mode does not complete before you switch your vehicle off, it continues the next time you start your vehicle and the message reappears.

Note: *Pure EV now mode is not available when in low engine use mode.*

Note: *Cold temperatures affect the engine warm up time and the low engine use mode may operate more frequently.*

Note: *An oil change is not required but gives you the option of not running a low engine use cycle. Resetting the oil life monitoring system suspends the low engine use mode.*

PLUG-IN HYBRID ELECTRIC VEHICLE INFORMATION – TROUBLESHOOTING

PLUG-IN HYBRID ELECTRIC VEHICLE INFORMATION – WARNING LAMPS



Illuminates if your vehicle's electrical system requires service to identify the cause for your vehicle to shut down or enter a limited operating mode. A message may appear in the instrument cluster display. Have your vehicle checked as soon as possible.

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

PLUG-IN HYBRID ELECTRIC VEHICLE INFORMATION – INFORMATION MESSAGES

Message	Action
Vehicle Plugged In ? Yes No	Your vehicle needs confirmation it is unplugged before allowing a start. Check to make sure you unplugged your vehicle and then respond to the message prompt before starting your vehicle.
Unplug Prior to Starting Vehicle	Your vehicle detects it is still plugged in after you attempt to start it.
Engine Enabled Due to Defrost Setting	Your vehicle enables the engine due to the climate control defrost setting. This is normal operation.

Message	Action
Change Drive Mode for Full Defrost	For full defrost heat, select a drive mode other than Pure EV. The engine may run to provide more cabin heat.
Engine Enabled for System Performance	Your vehicle enables the engine for system performance. This is normal operation.
Stop Safely Now	Displays when a malfunction occurs in the high voltage electric system. Stop your vehicle as soon as it is safe to do so. Have your vehicle checked as soon as possible.

POWER FLOW

WHAT IS POWER FLOW

The power flow shows how power is being used in the vehicle and also displays reasons for engine operation.

HOW DOES POWER FLOW WORK



The power flow information for your plug-in hybrid vehicle is available through the Home screen or under Apps.

Vehicle Operational States

Power flows to or from the front and rear wheels depending on operational state and driving conditions.

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

- Idling: The vehicle is running and in park (P). The engine and, or the high voltage battery are on.
- Electric driving: The vehicle is running and in drive (D) or neutral (N). The high voltage battery provides power to the wheels.
- Hybrid driving: The vehicle is running and in drive (D) or neutral (N). The engine and the high voltage battery provide power to the wheels.
- Regenerative braking: The vehicle is running in drive (D) and is slowing down. The regenerative braking system captures power and sends it back to the high voltage battery.
- Charging: The vehicle is plugged in and the high voltage battery is being charged.
- Drive power: The engine is on due to accelerator pedal pressure or speed control activation. Reduce pressure on the accelerator pedal or switch off the speed control to return to full electric mode.
- High speed: The engine is on because the vehicle speed exceeds the level for full electric operation. Reduce the speed to return to electric operation.
- Heater setting: The engine is on because of the heater setting. Reduce or switch off the heater setting to return to electric operation.
- Neutral gear: The engine is on because the vehicle is in neutral (N). Shift out of neutral gear to return to electric operation.
- Engine cold: The engine is on because it is cold. The vehicle returns to electric operation once the engine is sufficiently warm.
- Battery charging: The engine is on to charge the high voltage battery. The vehicle returns to electric operation once the battery is sufficiently charged.
- Low gear: The engine is on because the vehicle is in low (L). Shift out of low (L) to return to electric operation.
- Normal operation: The engine is on to optimize vehicle operation. The vehicle returns to electric operation when possible.
- Low use: The engine is on to maintain engine oil quality. The vehicle returns to electric operation when low engine use mode is complete. See **How Does Low Engine Use Mode Work** (page 216).
- Engine braking active: The engine is on to provide increased powertrain braking. This can occur when you turn on the grade assist feature, when speed control is on or when driving with your foot off the accelerator pedal. Turning off grade assist or speed control may allow the vehicle to return to electric operation.

Engine On Due To

The following conditions help explain why the engine is on and what you can do to allow all electric operation.

Hybrid Electric Vehicle Information - Plug-In Hybrid Electric Vehicle (PHEV)

- Battery temperature: The engine is on due to high or low high voltage battery temperature. This is a normal operating condition. The vehicle returns to electric operation when possible.
- Drive mode: The engine is on due to the drive mode selection. Select an appropriate drive mode for electric only operation.

Auto-Start-Stop - Gasoline

WHAT IS AUTO-START-STOP

The system is designed to help reduce fuel consumption and CO₂ emissions by stopping the engine when it is idling, for example at traffic lights.

AUTO-START-STOP PRECAUTIONS



WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you leave your vehicle. Failure to follow this instruction could result in personal injury or death.



WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you open the hood or have any service or repair work completed. If you do not switch the ignition off, the engine could restart at any time. Failure to follow this instruction could result in personal injury or death.

SWITCHING AUTO-START-STOP ON AND OFF

The system turns on when you switch the ignition on.



Press the button to switch the system off.

Note: *OFF* illuminates in the switch.

Note: *Deactivating the system using the button lasts only one key cycle.*

Press the button again to switch the system back on.

Note: *The system turns off if it detects a malfunction. If the system malfunctions, have your vehicle checked as soon as possible.*

STOPPING THE ENGINE

Stop your vehicle, keep your foot on the brake pedal and the transmission in drive (D).

RESTARTING THE ENGINE

Release the brake pedal or press the accelerator pedal.

A message appears in the instrument cluster display if the system requires you to take action.

AUTO-START-STOP INDICATORS



WARNING: The system may require the engine to automatically restart when the auto-start-stop indicator illuminates green or flashes amber. Failure to follow this instruction could result in personal injury.



The Auto-Start-Stop indicator illuminates green when the engine stops. It flashes amber and a message appears when you need to take action.

Auto-Start-Stop - Gasoline



The Auto-Start-Stop indicator illuminates gray with a strikethrough when the system is not available.

Note: *You can display the reason why the system is not available in the information display.*

AUTO-START-STOP – TROUBLESHOOTING

AUTO-START-STOP – INFORMATION MESSAGES

A message appears in the instrument cluster display if the system requires you to take action.

Message	Condition	Action
Auto StartStop Press Brake to Start Engine	The system needs to restart the engine but requires your confirmation.	Press the brake pedal to restart the engine.
Auto StartStop Press a Pedal to Start Engine	The system needs to restart the engine but requires your confirmation.	Press the brake pedal or the accelerator pedal to restart the engine.

Auto-Start-Stop - Gasoline

AUTO-START-STOP – FREQUENTLY ASKED QUESTIONS

Why does the engine not always stop when I expect it to?

The system is designed to work in a way that complements other vehicle systems, allowing them to operate at optimum performance.

The system does not stop the engine if:

- The driver door is open.
- Your vehicle is at high altitude.
- The heated windshield is on.
- The engine is warming up.
- The outside temperature is too low or too high.
- The battery charge is low.
- The battery temperature is outside the optimal operating range.
- The engine is required to run to maintain interior climate and reduce fogging.

Why does the engine sometimes restart when I do not expect it to?

The system is designed to work in a way that complements other vehicle systems, allowing them to operate at optimum performance.

The system restarts the engine if:

- You switch the heated windshield on.
- You switch maximum defrost on.
- Your vehicle starts to roll downhill in neutral.
- The engine is required to run to maintain adequate brake system assistance.
- The engine is required to run to maintain interior climate and reduce fogging.

Can I permanently switch the system off?

No. The system plays an important role in reducing the fuel consumption and the CO₂ emissions.

Will the frequent engine starts cause parts to wear out?

Your vehicle has an enhanced battery and starter motor that are designed for the increased number of engine starts.

Fuel and Refueling

FUEL AND REFUELING PRECAUTIONS



WARNING: Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.



WARNING: The fuel system may be under pressure. If you hear a hissing sound near the fuel filler inlet, do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.



WARNING: Fuels can cause serious injury or death if misused or mishandled.



WARNING: Fuel may contain benzene, which is a cancer-causing agent.



WARNING: When refueling always shut the engine off and never allow sparks or open flames near the fuel tank filler valve. Never smoke or use a cell phone while refueling. Fuel vapor is extremely hazardous under certain conditions. Avoid inhaling excess fumes.



WARNING: Read and follow all the instructions on the pump island.

Follow these guidelines when refueling:

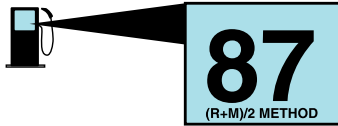
- Extinguish all smoking materials and any open flames before refueling your vehicle.
- Switch the engine off before refueling.
- Automotive fuels can be harmful or fatal if swallowed. Fuel is highly toxic and if swallowed can cause death or permanent injury. If fuel is swallowed immediately call a physician, even if no symptoms are immediately apparent. The toxic effects of fuel may not be apparent for hours.

- Avoid inhaling fuel vapors. Inhaling fuel vapor can lead to eye and respiratory tract irritation. In severe cases, excessive or prolonged breathing of fuel vapor can cause serious illness and permanent injury.
- Avoid getting fuel in your eyes. If you splash fuel in your eyes, immediately remove contact lenses, if worn, flush with water for 15 minutes and seek medical attention. Failure to seek proper medical attention could lead to permanent injury.
- Fuels can be harmful if absorbed through the skin. If you splash fuel on your skin, clothing or both, promptly remove contaminated clothing and thoroughly wash your skin with soap and water. Repeated or prolonged skin contact causes skin irritation.
- Be particularly careful if you are taking Antabuse or other forms of Disulfiram for the treatment of alcoholism. Breathing fuel vapors could cause an adverse reaction, serious personal injury or sickness. Immediately call a physician if you experience any adverse reactions.

Fuel and Refueling

FUEL QUALITY

SELECTING THE CORRECT FUEL



Your vehicle operates on regular unleaded gasoline with a minimum pump (R+M)/2 octane rating of 87.

Some fuel stations, particularly those in high altitude areas, offer fuels posted as regular unleaded gasoline with an octane rating below 87. The use of these fuels could result in engine damage that will not be covered by the vehicle Warranty.

For best overall vehicle and engine performance, premium fuel with an octane rating of 91 or higher is recommended. The performance gained by using premium fuel is most noticeable in hot weather as well as other conditions, for example when towing a trailer. See **Towing a Trailer** (page 388).

Do not be concerned if the engine sometimes knocks lightly. However, if the engine knocks heavily while using fuel with the recommended octane rating, contact an authorized dealer to prevent any engine damage.

We recommend Top Tier detergent gasolines, where available to help minimize engine deposits and maintain optimal vehicle and engine performance.

For additional information, visit www.toptiergas.com.

Note: *Use of any fuel for which the vehicle was not designed can impair the emission control system, cause loss of vehicle performance, and cause damage to the engine which may not be covered by the vehicle Warranty.*

Do not use:

- Diesel fuel.
- Fuels containing kerosene or paraffin.
- Fuel containing more than 15% ethanol or E85 fuel.
- Fuels containing methanol.
- Fuels containing metallic-based additives, including manganese-based compounds.
- Fuels containing the octane booster additive, methylcyclopentadienyl manganese tricarbonyl (MMT).
- Leaded fuel, using leaded fuel is prohibited by law.

The use of fuels with metallic compounds such as methylcyclopentadienyl manganese tricarbonyl, which is a manganese-based fuel additive, will impair engine performance and affect the emission control system.

LOCATING THE FUEL FILLER FUNNEL

The fuel filler funnel is under the luggage compartment floor covering.

Fuel and Refueling

RUNNING OUT OF FUEL

FILLING A PORTABLE FUEL CONTAINER



WARNING: Flow of fuel through a fuel pump nozzle can produce static electricity. This can cause a fire if you are filling an ungrounded fuel container.

Use the following guidelines to avoid electrostatic charge build-up, which can produce a spark, when filling an ungrounded fuel container:

- Only use an approved fuel container to transfer fuel to your vehicle. Place the container on the ground when filling it.
- Do not fill a fuel container when it is inside your vehicle (including the cargo area).
- Keep the fuel pump nozzle in contact with the fuel container when filling it.
- Do not use a device that holds the fuel pump nozzle lever in the fill position.

ADDING FUEL FROM A PORTABLE FUEL CONTAINER



WARNING: Do not insert the nozzle of a fuel container or an aftermarket funnel into the fuel filler neck. This may damage the fuel system filler neck or its seal and cause fuel to run onto the ground.



WARNING: Do not pry open the fuel tank filler valve. This could damage the fuel system. Failure to follow this instruction could result in fire, personal injury or death.



WARNING: Do not dispose of fuel in the household refuse or the public sewage system. Use an authorized waste disposal facility.

When refueling the vehicle fuel tank from a fuel container, use the fuel filler funnel included with your vehicle. See **Locating the Fuel Filler Funnel** (page 224).

Note: *Do not use aftermarket funnels as they may not work with the capless fuel system and can damage it.*

When refueling the vehicle fuel tank from a fuel container, do the following:

1. Fully open the fuel filler door.



2. Fully insert the fuel filler funnel into the fuel filler inlet.
3. Add fuel to your vehicle from the fuel container.
4. Remove the fuel filler funnel.
5. Fully close the fuel filler door.

Fuel and Refueling

6. Clean the fuel filler funnel and place it back in your vehicle or correctly dispose of it.

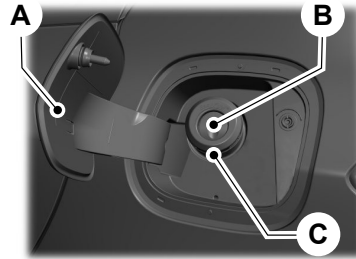
Note: If your vehicle runs out of fuel add a minimum of 1.3 gal (5 L) of fuel to restart the engine.

Note: You may need to switch the ignition from off to on several times after refueling to allow the fuel system to pump the fuel from the tank to the engine. When restarting, cranking time takes a few seconds longer than normal.

Note: Extra funnels can be purchased from an authorized dealer if you choose to dispose of the funnel.

REFUELING

REFUELING SYSTEM OVERVIEW



- A Fuel filler door.
- B Fuel filler inlet.
- C Fuel tank filler pipe.

REFUELING YOUR VEHICLE - EXCLUDING: PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

WARNING: Do not pry open the fuel tank filler valve. This could damage the fuel system. Failure to follow this instruction could result in fire, personal injury or death.

WARNING: Do not remove the fuel pump nozzle from its fully inserted position when refueling.

WARNING: Stop refueling when the fuel pump nozzle automatically shuts off for the first time. Failure to follow this will fill the expansion space in the fuel tank and could lead to fuel overflowing.

WARNING: Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.

Fuel and Refueling

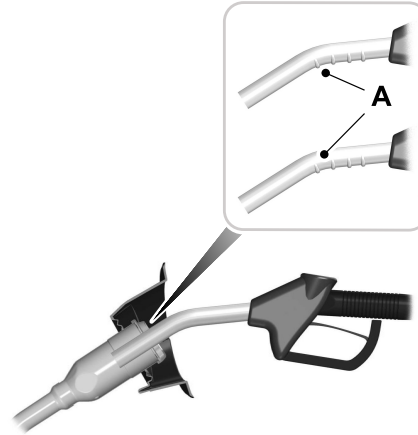


WARNING: Wait at least five seconds before removing the fuel pump nozzle to allow any residual fuel to drain into the fuel tank.

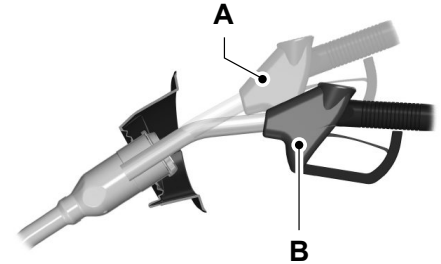


WARNING: Read and follow all the instructions on the pump island.

1. Fully open the fuel filler door.
2. Select the correct fuel pump nozzle for your vehicle.

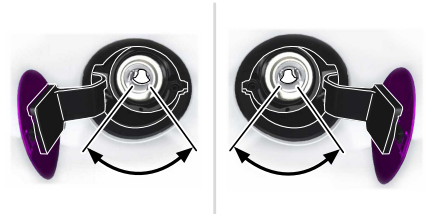


3. Insert the fuel pump nozzle up to the first notch on the nozzle A. Keep the fuel pump nozzle resting on the fuel tank filler pipe.



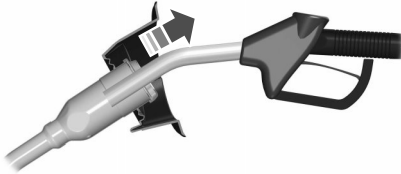
E139203

4. Hold the fuel pump nozzle in position B when refueling. Holding the fuel pump nozzle in position A can affect the flow of fuel and shut off the fuel pump nozzle before the fuel tank is full.



5. Operate the fuel pump nozzle within the area shown.


Fuel and Refueling





REFUELING YOUR VEHICLE - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)


6. When the nozzle shuts off, wait at least 5 seconds, then slightly raise the fuel pump nozzle and slowly remove it.
7. Fully close the fuel filler door.


Do not attempt to start the engine if you have filled the fuel tank with incorrect fuel. Incorrect fuel use could cause damage not covered by the vehicle Warranty. Have your vehicle immediately checked.


 **WARNING:** Do not pry open the fuel tank filler valve. This could damage the fuel system. Failure to follow this instruction could result in fire, personal injury or death.

 **WARNING:** Do not remove the fuel pump nozzle from its fully inserted position when refueling.

 **WARNING:** Stop refueling when the fuel pump nozzle automatically shuts off for the first time. Failure to follow this will fill the expansion space in the fuel tank and could lead to fuel overflowing.

 **WARNING:** Do not overfill the fuel tank. The pressure in an overfilled tank may cause leakage and lead to fuel spray and fire.

 **WARNING:** Wait at least five seconds before removing the fuel pump nozzle to allow any residual fuel to drain into the fuel tank.

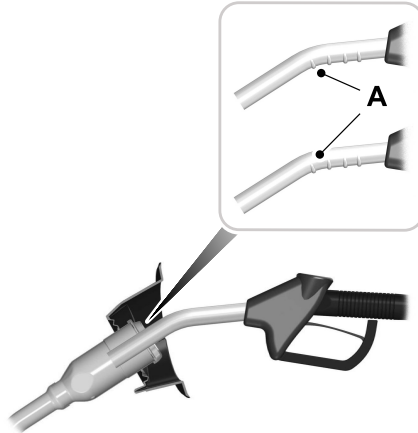
 **WARNING:** Read and follow all the instructions on the pump island.

1. When you stop your vehicle, shift into park (P) and switch the ignition off.

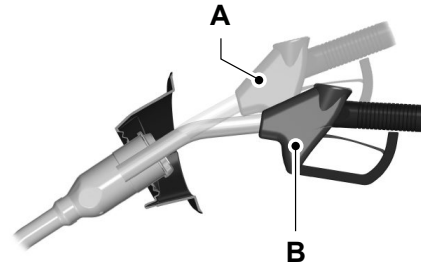


Fuel and Refueling

2. Press the button on the left side of the instrument panel next to the headlamp switch to open the fuel filler door. The fuel filler door can take up to 15 seconds to open before you can insert a fuel filler nozzle.

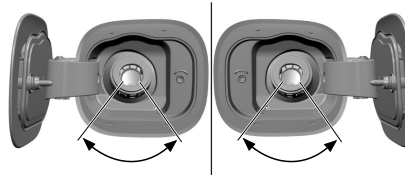


3. Insert the fuel pump nozzle up to the first notch on the nozzle A. Keep it resting on the cover of the fuel tank filler pipe opening.

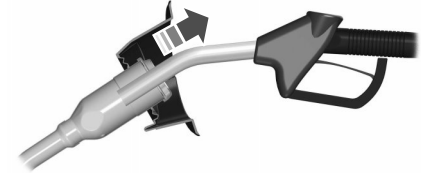


E139203

4. Hold the fuel pump nozzle in position B when refueling. Holding the fuel pump nozzle in position A can affect the flow of fuel and shut off the fuel pump nozzle before the fuel tank is full.



5. Operate the fuel pump nozzle within the area shown.



6. When the nozzle shuts off, wait at least 5 seconds, then slightly raise the fuel pump nozzle and slowly remove it.
7. Fully close the fuel filler door.

Note: Leaving the fuel door open could set a check engine lamp. See **Fuel and Refueling – Troubleshooting** (page 231).

Complete the refueling process within 20 minutes. If 20 minutes elapses, press the button on the left side of the instrument panel again. Fuel pump nozzle automatic shut off could occur if you do not press the button on the left side of the instrument panel.

Fuel and Refueling

Do not attempt to start the engine if you have filled the fuel tank with incorrect fuel. Incorrect fuel use could cause damage not covered by the vehicle Warranty. Have your vehicle immediately checked.

MANUALLY OPENING THE FUEL FILLER DOOR

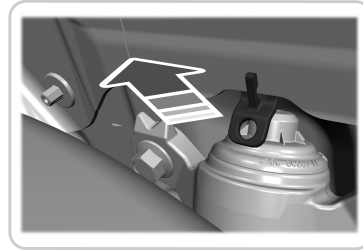


WARNING: The fuel system may be under pressure. If you hear a hissing sound near the fuel filler inlet, do not refuel until the sound stops. Otherwise, fuel may spray out, which could cause serious personal injury.

Note: The transmission must be in park (P) or neutral (N).

When using the manual override lever do the following:

1. Switch the ignition on.



Note: The manual override lever is in the driver side rear wheel well area.

2. Pull the manual override lever.

3. Switch the ignition off.
4. Complete the refueling process within 20 minutes.

Note: Only follow this procedure if the fuel filler door fails to open. If the problem remains, have your vehicle checked as soon as possible.

FUEL TANK CAPACITY

Advertised Capacity

The advertised capacity is the maximum amount of fuel that you can add to the fuel tank when the fuel gauge indicates empty.

In addition, the fuel tank contains an empty reserve. The empty reserve is an unspecified amount of fuel that remains in the fuel tank when the fuel gauge indicates empty.

Note: The amount of fuel in the empty reserve varies and should not be relied upon to increase driving range.

Fuel and Refueling

FUEL AND REFUELING – TROUBLESHOOTING

FUEL AND REFUELING – WARNING LAMPS



If it illuminates when you are driving, refuel as soon as possible.

FUEL AND REFUELING – INFORMATION MESSAGES - EXCLUDING: PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Message	Action
Fuel Level Low	An early reminder of a low fuel condition. Refill your vehicle.
Check Fuel Fill Inlet	Check to make sure the fuel fill inlet is fully closed.

Fuel and Refueling

FUEL AND REFUELING – INFORMATION MESSAGES - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Message	Action
Fuel Level Low	An early reminder of a low fuel condition.
Check Fuel Fill Inlet	The fuel fill inlet may not be properly closed.
Please wait for fuel door to open	The information message appears while the fuel system is depressurizing with the fuel filler door closed. Wait for the fuel system to depressurize and for the fuel filler door to unlatch.
Fuel Door Open	The information message appears when the fuel system has depressurized and opened the fuel filler door. Fully open the fuel filler door to refuel and fully close the fuel filler door when refueling is complete.
Fuel door ajar Close fully to avoid Check engine light	Your vehicle is equipped with a sealed fuel system that requires the fuel filler door to be fully closed after refueling. This warning message appears when the fuel filler door is ajar. Please fully close the fuel filler door to avoid a "Check Engine" Light. If you see this message and a "Check Engine" lamp illuminates, please fully close the fuel filler door. The "Check Engine" Light should clear within five seconds. If the "Check Engine" light persists, please see your dealer.
Refuel Error See Manual	The information message appears when the fuel system fails to depressurize, or the fuel filler door fails to open. You could have to use the fuel filler door manual override lever when opening the fuel door.

Catalytic Converter

WHAT IS THE CATALYTIC CONVERTER

The catalytic converter is part of your vehicle's emissions system and filters harmful pollutants from the exhaust gas.

CATALYTIC CONVERTER PRECAUTIONS



WARNING: Do not park, idle or drive your vehicle on dry grass or other dry ground cover. The emission system heats up the engine compartment and exhaust system, creating the risk of fire.



WARNING: The normal operating temperature of the exhaust system is very high. Never work around or attempt to repair any part of the exhaust system until it has cooled. Use special care when working around the catalytic converter. The catalytic converter heats up to a very high temperature after only a short period of engine operation and stays hot after the engine is switched off.



WARNING: Exhaust leaks may result in entry of harmful and potentially lethal fumes into the passenger compartment. If you smell exhaust fumes inside your vehicle, have your vehicle inspected immediately. Do not drive if you smell exhaust fumes.

To avoid damaging the catalytic converter:

- Do not crank the engine for more than 10 seconds at a time.
- Do not run the engine with a spark plug lead disconnected.

- Do not push-start or tow-start your vehicle. Use booster cables. See **Jump Starting the Vehicle** (page 402).
- Use the correct fuel. See **Fuel and Refueling** (page 223).
- Do not switch the ignition off when your vehicle is moving.
- Avoid running out of fuel.
- Have the items listed in scheduled maintenance information performed according to the specified schedule.

Note: Do not make any unauthorized changes to your vehicle or engine. By law, vehicle owners and anyone who manufactures, repairs, or services a fleet of vehicles are not permitted to intentionally remove an emission control device or prevent it from working.

Catalytic Converter

CATALYTIC CONVERTER – TROUBLESHOOTING

CATALYTIC CONVERTER – WARNING LAMPS

Your vehicle has an on-board diagnostics system that monitors the emission control system. If any of the following warning lamps illuminate, this may indicate that the on-board diagnostics system has detected an emission control system malfunction.



Continuing to drive your vehicle may cause reduced power or the engine to stop. Failure to respond to a warning lamp may cause damage that your vehicle Warranty may not cover. Have your vehicle checked as soon as possible.

High Voltage Battery - Plug-In Hybrid Electric Vehicle (PHEV)

WHAT IS THE HIGH VOLTAGE BATTERY

The high voltage battery is a highly sophisticated lithium ion battery system, used to store electrified energy to power the vehicle.

HIGH VOLTAGE BATTERY PRECAUTIONS



WARNING: This battery pack should only be serviced by an authorized electric vehicle technician. Improper handling can result in personal injury or death.



WARNING: Keep your hands and clothing clear of the cooling fan.



WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you open the hood or have any service or repair work completed. If you do not switch the ignition off, the engine could restart at any time. Failure to follow this instruction could result in personal injury or death.



WARNING: Do not touch the electronic ignition system parts after you have switched the ignition on or when the engine is running. The system operates at high voltage. Failure to adhere to this warning could result in serious personal injury or death.

Your vehicle consists of various high-voltage components and wiring. All of the high-voltage power flows through specific wiring assemblies labeled as such or covered with a solid orange convolute, or orange striped tape, or both. Do not come in contact with these components.

RECYCLING AND DISPOSING OF THE HIGH VOLTAGE BATTERY


Please recycle in accordance with local regulations.


Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)


WHAT IS AC CHARGING

AC charging is the preferred method of charging. AC charging preserves the health of the battery for longer battery life.

CHARGING YOUR VEHICLE PRECAUTIONS

 **WARNING:** Do not allow charging equipment to be immersed in water or liquids. Failure to follow this warning could result in fire, serious personal injury or death.

 **WARNING:** Do not attempt to open the charging equipment. Failure to follow this instruction could result in personal injury, death or property damage.

 **WARNING:** Do not use the charging equipment if it is faulty or has been damaged. Failure to follow this instruction could result in personal injury, death or property damage.



WARNING: Install charging equipment in compliance with local regulations. Failure to follow this warning could result in fire, serious personal injury or death.

CHARGING EQUIPMENT

Charging Solution One (If Equipped)

IMPORTANT SAFETY INSTRUCTIONS



WARNING: Do not use the dual-voltage charging cord in commercial garages.



WARNING: This equipment has arcing or sparking parts. Do not expose to flammable vapors. Position this equipment at least 18 in (450 mm) above the floor.

RISK OF FIRE or ELECTRIC SHOCK



WARNING: The AC wall plug must fit firmly into the AC outlet. If the connection feels loose, worn or the AC outlet is damaged, please have a qualified electrician replace the AC outlet. Using a dual-voltage charging cord with a worn outlet may cause burns, property damage and increase the risk of electric shock or fire.



WARNING: Do not use the dual-voltage charging cord with an extension cord, two-prong adapter, surge protector, timer or other adapter. Failure to follow this instruction could result in electric shock or fire.



WARNING: Do not allow charging equipment to be immersed in water or liquids. Failure to follow this warning could result in fire, electric shock, or serious personal injury or death.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)



WARNING: Do not attempt to open the charging equipment. Failure to follow this instruction could result in personal injury, fire, electric shock, death or property damage.



WARNING: Do not use the charging equipment if it is faulty or has been damaged. Failure to follow this instruction could result in personal injury, fire, electric shock, death or property damage.



WARNING: You risk death, fire, or serious injury to yourself and others if you do not follow the instruction highlighted by the warning symbol.



WARNING: Install charging equipment in compliance with local regulations. Failure to follow this warning could result in fire, electric shock, serious personal injury or death.



WARNING: Do not use an ungrounded wall outlet. The wall outlet must be in good condition and meet up-to-date local codes. Have a qualified electrician check the wall outlet, if you suspect that it is not properly grounded. Failure to follow this instruction could result in electric shock, personal injury, or death.



WARNING: Do not modify the dual-voltage charging cord plug. If the dual-voltage charging cord plug does not properly fit into the wall outlet, have a qualified electrician install the correct wall outlet. Failure to follow this instruction could result in personal injury, fire, electric shock, or death.

- Do not use this product if the flexible power cord or electric vehicle cable has broken insulation, or any other signs of damage.
- Do not use this product if the enclosure or the electric vehicle connector is broken, cracked, open, or shows any other indication of damage.

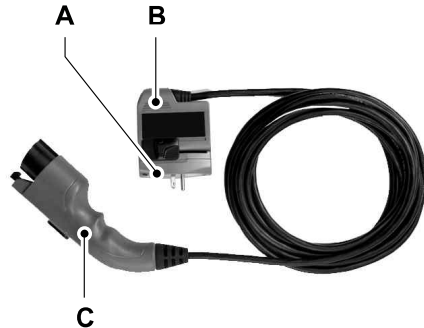
Note: *Ground this product. If it malfunctions or breaks down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product comes with a cord having an equipment grounding conductor and a grounding plug. Make sure you plug it into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.*

OPERATION INSTRUCTIONS

- Read all the instructions before using this product.
- Supervise this device when in use around children.
- Do not put fingers into the electric vehicle connector.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Charging Equipment



- A Wall Plug.
- B Control Box.
- C Coupler.

Your vehicle has a dual-voltage charging cord in the luggage compartment.

Note: You need to plug the dual-voltage charging cord into a dedicated outlet.

Note: Firmly fit the AC wall plug into the AC outlet. If the connection feels loose, worn or the AC outlet is damaged, please have a qualified electrician replace the AC outlet. Using a dual-voltage charging cord with a worn outlet could cause burns, property damage and increase the risk of electric shock.

Note: Do not use the dual-voltage charging cord with an extension cord, two-prong adapter, surge protector, timer or other adapter.

Note: If charging for your plug-in vehicle fails, please call the Customer Relationship Center, or click on Call for support or Live Chat at our website.

CAUTION: TO REDUCE THE RISK OF FIRE- Use a three-prong AC outlet that is properly grounded, 15-20 amps or greater, and in good condition. Use a dedicated line. You cannot have other appliances connected to the same circuit. If you do not use a dedicated circuit, the circuit breaker could trip or open. If you do not have a dedicated circuit, contact a licensed professional electrician for proper installation.

Note: Make sure the electrical source meets the requirements for the high-voltage batteries to charge.

Make sure that the dual-voltage charging cord is completely unwrapped before charging. Always plug the cord into the AC outlet before connecting the charged coupler into the charge port on your vehicle.

Note: If the power indicator light is off after plugging in the dual-voltage charging cord and you cannot determine a charge status, use a different outlet.

Note: Store the dual-voltage charging cord in a clean dry place between the temperature of -40–158°F (-40–70°C)

Note: For further information on the dual-voltage charging cord, please refer to the user manual provided with the dual-voltage charging cord.

MOVING AND STORAGE INSTRUCTIONS

Make sure that you completely wrap the dual-voltage charging cord after charging.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

When complete, replace the dual-voltage charging cord in the luggage compartment.

Note: Do not hold the dual-voltage charging cord by the flexible power cable.

Note: Store the dual-voltage charging cord in a clean, dry place between the temperature of -40 – 158°F (-40 – 70°C).

Charging Solution Two (If Equipped)



WARNING: Do not use an ungrounded wall outlet. The wall outlet must be in good condition and meet up-to-date local codes. Have a qualified electrician check the wall outlet, if you suspect that it is not properly grounded. Failure to follow this instruction could result in electric shock, personal injury, or death.



WARNING: It is recommended that electrical outlets for use with your charging equipment be installed by a licensed, qualified electrician. Installations must comply with the provisions of all local codes. Failure to follow this warning could result in personal injury or death.



WARNING: Do NOT DROP the control box or coupler.



WARNING: Do NOT use if stored outside temperature range specified.



WARNING: Do not attempt to repair the charging equipment. Contact your local dealer for assistance.



WARNING: Read all warnings on the charging equipment before using for the first time.



WARNING: Read all instructions in this publication before using the charging equipment.



WARNING: To reduce the risk of fire, connect only to a circuit provided with 40 amps maximum branch circuit overcurrent protection installed in accordance with NEC and local electrical code.



WARNING: Do not use the charging equipment with an extension cord, surge protector, timer or other adapter. Failure to follow this instruction could result in electric shock or fire.



WARNING: The wall plug must fit firmly into the outlet. If the connection feels loose, worn or the outlet is damaged, have a qualified electrician replace the outlet. Using charging equipment with a worn outlet may cause burns, property damage and increase the risk of electric shock.



WARNING: Fully insert the plug into the wall outlet. Failure to follow this instruction could result in electric shock.





WARNING: Children should be supervised when in the vicinity of the charging equipment while plugged in.





WARNING: Do not put fingers into the electric charge coupler. Failure to follow this instruction could result in electric shock.


Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)


 **WARNING:** This equipment has arcing or sparking parts. Do not expose to flammable vapors. Position this equipment at least 18 in (450 mm) above the floor.


 **WARNING:** Do not connect or disconnect any pluggable components of the charging equipment when in use or charging. Failure to follow this instruction can cause damage to the charging equipment.


 **WARNING:** Do not use the charging equipment in temperatures outside of the operation range of -22°F (-30°C) to 122°F (50°C).


 **WARNING:** Store the charging equipment in a clean dry place between the temperatures of -22°F (-30°C) to 185°F (85°C).


 **WARNING:** Do not plug the charging equipment into an electrical outlet that is submerged in water or covered in snow.


 **WARNING:** Do not use charging equipment in severe rain, snow or electrical storm.


 **WARNING:** Do not allow charging equipment to be immersed in water or liquids. Failure to follow this warning could result in fire, electric shock, or serious personal injury or death.


 **WARNING:** When using the charging equipment avoid moisture, water, snow and foreign objects at all times.

 **WARNING:** Do not replace the plug on the connector. There are critical safety devices in the plug, and the charging equipment will not operate, if the plug is replaced. Failure to follow this instruction could result in electric shock, personal injury, death, or fire.

 **WARNING:** Charging equipment contains no user modifiable or repairable parts. If the charging equipment plug does not properly fit into the wall outlet, have a qualified electrician install the correct wall outlet. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** High voltage is present in your electric meter housing and power distribution service panel. Contact with high voltage can cause death or serious personal injury.

 **WARNING:** Visually inspect the charging equipment before each use. Do not use the charging equipment if it is damaged.

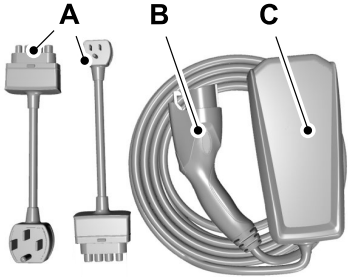
 **WARNING:** Keep charging equipment inside when not in use. Stow the control box on the hanger or all the charging equipment in the bag after use to prevent damage to the charging equipment and personal injury.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Your vehicle comes with a mobile power cord that has a low power connector to use with a 120V plug NEMA 5-15 and a high power connector to use with a 240V plug NEMA 14-50.

Specification Type	Specification Value
Charger Model	SAE
Voltage	120-240 VAC
Maximum Current	32 Amps max continuous
Frequency	60Hz
Power draw when idle	< 2 Watts
Cable length	Approximately 20 ft (6.1 m)
Weight	8.6 lb (3.9 kg)
Operating temperature	-22°F (-30°C) to 122°F (50°C)

Specification Type	Specification Value
Storage temperature	-22°F (-30°C) to 185°F (85°C)
CCID Environmental	IP67
Ventilation	Not required



- A Connector.
- B Coupler.
- C Control box.

The mobile power cord is located in the luggage compartment and allows you to charge the vehicle's battery using a standard household outlet.

You must plug the connector into the charger control box first. Then plug the connector into the household outlet, and then plug the coupler into the vehicle charge port.

The power indicator illuminates blue when the connector is properly inserted into the charger control box and dedicated wall outlet.

Note: To insert the connector, firmly grasp the connector by the cable or plug and push into the charger control box until an audible click is heard. Make sure the connector is fully inserted and flush with the charger control box before inserting it into the outlet. Improper insertion of the connector results in an amber fault light or intermittent charging, and a longer charge session.

Note: Follow the installation instructions provided with the mobile power cord.

Note: We recommend using the supplied plugs and connectors.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

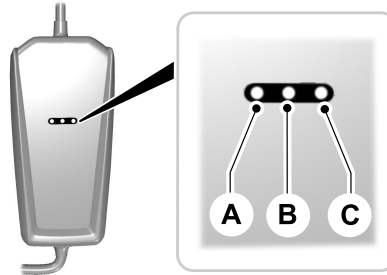
Note: If you do not use a dedicated circuit, the circuit breaker could trip or open. If a dedicated circuit is not available, contact a licensed professional electrician regarding the installation of a dedicated outlet.

Note: The mobile power cord does not charge and gives a fault indication if ground is not present.

Note: Plug the connector for the mobile power cord directly into the wall plug receptacle. Do not plug the mobile power cord into any form of extension cord.

Note: The wall bracket must be used to support the charge control box. The charge control box cannot be hung from the outlet or wall plug.

Mobile Power Cord Indicator Lights



- A Amber fault indicator light.
- B Blue status indicator light.
- C Red trouble indicator light.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Mobile Power Cord Fault Indicator Type	Indicator Description
AMBER	The amber fault indicator illuminates to communicate that the charger is rebooting after an error.
BLUE	When plugged into the wall outlet, the blue indicator illuminates to communicate that the charger is ready to use.
RED	The red indicator illuminates when the charger has detected an error. If the red indicator is illuminated, the charger will not deliver power to the vehicle. The error must be corrected before a charging cycle can begin or continue.

Note: When first plugged into a wall outlet the amber, blue and red indicators blink once. Then the blue indicator turns on, followed by a blink of the red indicator. After, the blue indicator turns off then back on. This cycle happens twice if a different connector is used from a previous charge.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

AMBER	BLUE	RED	MODE	ACTION
OFF	OFF	OFF	UNPOWERED; The mobile power cord is not powered.	Make sure the outlet is operational, and the circuit breaker is in the ON position or try using another outlet. Make sure the connector is fully inserted into the mobile power cord and the plug is not severely degraded. If the error persists, contact us.
OFF	PULSING	OFF	CHARGING; The mobile power cord is charging.	No action required.
OFF	ON	OFF	STANDBY; The mobile power cord is powered and ready to charge. At the current time the mobile power cord is not charging the vehicle.	If you expect the mobile power cord to be charging the vehicle, make sure the vehicle coupler is properly inserted into the vehicle. Check and adjust your charging time preferences in the on-screen display. If your vehicle is still not charging, contact us.
ON	ON	ON	REBOOTING; The mobile power cord is recovering after encountering an error.	Wait for the mobile power cord to return to standby. If the mobile power cord cycles for more than 2-3 minutes, unplug the vehicle coupler. Unplug and replug in the connector. If the issue persists, contact us.
ON	PULSING	OFF	CHARGING REDUCED; The mobile power cord is charging at a reduced rate due to overheating.	Make sure the connector and the control box are properly connected. Unplug and replug in the connector. If the mobile power cord is warm or in a hot environment, try charging in a cooler area. Try a different outlet. Try a different connector if you have one available. If the error persists, contact us.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

AMBER	BLUE	RED	MODE	ACTION
1 FLASH	PULSING	OFF	CHARGING REDUCED, AC PLUG OR WALL OUTLET; The mobile power cord is charging at a reduced rate due to overheating of the connector or the wall outlet.	Make sure the connector and control box are properly connected. Unplug and replug in the connector. If the mobile power cord is warm or in a hot environment, try charging in a cooler area. Try a different outlet. Try a different connector if you have one available. If the error persists, contact us.
ON	OFF	OFF	USER TROUBLESHOOTING; The mobile power cord has encountered a fault that requires troubleshooting.	Make sure the connector and control box are properly connected. Unplug and replug in the connector. If the mobile power cord is warm or in a hot environment, try charging in a cooler area. Try a different outlet. Try a different connector if you have one available. If the error persists, contact us.
OFF	OFF	ON	NON - RECOVERABLE FAULT; There is an internal fault in the mobile power cord that cannot be recovered.	Try a different connector if you have one available. If the error persists, contact us.
OFF	OFF	1 FLASH	NON - RECOVERABLE FAULT; There is an internal fault in the connector that cannot be recovered.	Try using another connector if you have one available. If not, contact us about obtaining a replacement. If your warranty has expired, you can order a replacement from your Ford dealer.
OFF	OFF	PULSING	GROUND LEAKAGE FAULT; Electrical current is leaking through a potentially unsafe path.	Potential shock hazard - immediately turn off circuit breaker for the outlet within home. Discontinue use. Contact us about obtaining a replacement.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Note: *When plugging into an unfamiliar wall outlet, let the vehicle charge for several minutes before leaving it unattended. The red indicator illuminates if not charging. The unit turns off if a breaker or infrastructure ground fault circuit interrupter (GFCI) is tripped. You can view vehicle charging status remotely via the Lincoln Way app.*

Mobile Power Cord Auto-Restart

Auto-restart helps make sure that your vehicle is charged and ready for use when needed. A charge could be interrupted if errors are detected. Charging resumes once the error is no longer detected. The red indicator illuminates during an error condition.

The exception to the immediate auto-restart is when the interruption is due to a charger ground fault circuit interrupter (GFCI) event. The charger attempts to restart 15 minutes after a ground fault circuit interrupter (GFCI) event. After the fourth attempt to restart, the charger shuts down and the red indicator stays on.

If the fault persists, do not continue to try to charge your vehicle. Contact your authorized dealer.

MOVING AND STORAGE INSTRUCTIONS

Make sure you wrap the mobile power cord after charging. Store the mobile power cord in the storage bag supplied with the mobile power cord.

When charging is complete, replace the mobile power cord in the luggage compartment.

Note: *Do not hold the mobile power cord by the power cable. Hold the complete unit and carefully place back in the storage bag.*

Note: *To remove the connector, firmly grasp the connector by the cable or plug and pull away from the control box.*

CARE INSTRUCTIONS

Do not use cleaners or solvents as this could damage your mobile power cord. Do not place stress on the charger cables. If the unit overheats, remove the mobile power cord from direct sunlight.

SAFETY FEATURES

The charger includes the following safety features to protect against the risk of electric shock:

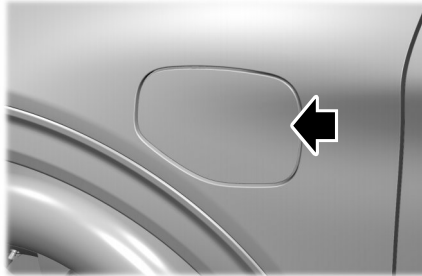
- Service ground check: The charger constantly checks for the presence of a service ground connection. If the service ground ever fails, the charger red indicator turns on and shuts down power to the vehicle.
- Thermal event sensor: Charger module senses out-of-ordinary thermal events and decreases the charging current or shuts the unit down if required.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

- Ground fault circuit interrupter (GFCI) Protection: The charger has a ground fault circuit interrupter (GFCI) reaction system to protect against electric shock. If the charger module detects an output ground fault, it shuts down power to the output cable and illuminates the red indicator.
- Insulation: The charger module, connector, cable assembly, and charge coupler are completely insulated. There are no exposed live parts, to protect against electric shock.
- Unintentional disconnection: The charge coupler is designed to minimize unintentional disconnection. A pilot signal wire in the cable and charge coupler eliminates the possibility of electric shock when not connected to a vehicle or if an unintended disconnect occurs during a charge. Disconnection during charging is safe.

LOCATING THE CHARGE PORT

The charge port is between the front left-hand side door and the front left-hand wheel well. To open, press the center right edge of the charge port door, and then release.



Note: Do not force the charge port door open or closed. Forcing the door open or closed damages the charge port.

CHARGE PORT INDICATORS

The charge status indicator around the charge port indicates the charge status of the high voltage battery in your vehicle.

Divided into five zones, the charge status indicator displays the state of charge in 20 percent increments.

We use the color white as a courtesy light to help with plugging in and to acknowledge actions such as plugging in, unplugging or pressing the charge times button.

We use the color blue when you plug the vehicle in and are either charging or waiting to charge.

We use the color orange to indicate charge faults.

The charge status indicator displays how far along the charge is:

- When the bottom zone is pulsing, the charge is between 0-20 percent.
- When the bottom zone illuminates and the next is pulsing, the charge is between 20-40 percent.

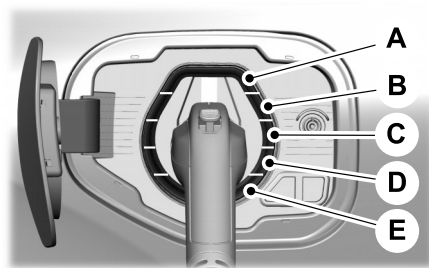
Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

- When two zones illuminate and the next is pulsing, the charge is between 40-60 percent.
- When three zones illuminate and the next is pulsing, the charge is between 60-80 percent.
- When four zones illuminate and the top zone is pulsing, the charge is between 80-100 percent.
- When all zones illuminate, the charge is 100 percent.

- C. 40%-60% state of charge.
- D. 20%-40% state of charge.
- E. 0%-20% state of charge.

Note: When charging stops, the charge status indicator shows all the completed zones illuminate in a blue color for 30 seconds before turning off. For example, if charging stops at 70 percent, then the bottom three zones illuminate to indicate a battery charge level of at least 60 percent but less than 80 percent. Charging stops when complete or when paused due to preferred charge settings or charge station actions.

Note: If the charge status indicator does not light up or pulse after plugging in, please verify that the charge port light setting is On. If you do not wish to have the charge status indicator light up at all while charging, then you can switch it Off. See charge port light settings under access menu in features on your touchscreen.



- A. 80%-100% state of charge.
- B. 60%-80% state of charge.

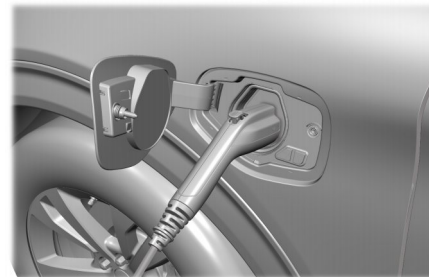
AC CHARGING

CONNECTING THE CHARGER



To charge the high voltage battery:

1. Put the vehicle in park (P).
2. Press and release the center right edge of the charge port door to open.
3. Plug the charging coupler into the charge port receptacle on your vehicle. Make sure the button clicks confirming that you have completely engaged the coupler.



Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

4. Verify that the cord acknowledgment feature activates. This indicates the beginning of a normal charge cycle. The charge status indicator lights up each zone alternately from bottom to top and from bottom to top again.
5. If using a charging station, follow the instructions on the charge station to begin the charging process.



Note: You can identify charging faults by the color orange on the charge status indicator. Faults can occur within the vehicle charging system or outside the vehicle, such as with the charge cord, charge station or electrical supply.

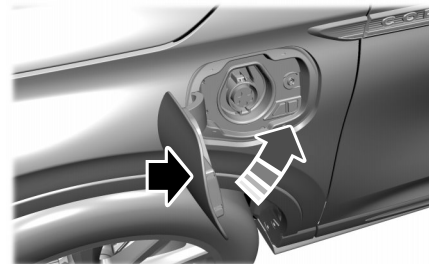
Note: If the system detects a fault in the vehicle charging system at any point in a charge cycle, the entire charge status indicator illuminates in an orange color for 30 seconds and then turns off. If this happens, unplug the charging coupler and then plug it back into the charge port receptacle. If the problem persists, have your vehicle checked as soon as possible.

Note: If the system detects a fault outside the vehicle, such as with the charge station or charge cord, the entire charge status indicator flashes continuously for 30 seconds and then turns off. If this happens, check the charge cord and the charge station or electrical supply.

Note: Put your vehicle in park (P) to charge, and for the charge status indicator to illuminate.

STOPPING CHARGING

1. Press the button on the charging coupler.
2. While holding the button, remove the charging coupler from the charge port receptacle.



3. Press the center right edge of the charge port door to close.

Note: Do not pull the wall plug from the wall when your vehicle is charging. Doing so could damage the outlet and the cord.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

SETTING THE CHARGING SCHEDULE AND PREFERENCES



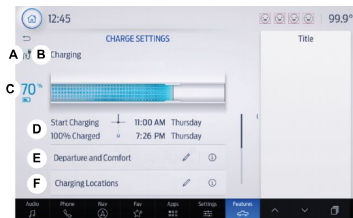
You can schedule charging to take advantage of lower cost electricity rates during off-peak hours if you have signed up for a time of use pricing plan with your utility provider. You can also set a max charge limit for your battery and a departure time and cabin temperature so your vehicle is ready to go when you are.

Scheduled charging can be set up on the touchscreen or in the LincolnWay app.

To view your charge settings:

1. Press **Features** on the touchscreen.
2. Press Charge Settings on the touchscreen.

Charge Settings Screen



- A Charging status icon.
- B Charging status.
- C High voltage battery state of charge.
- D Charging time information.
- E Departure and comfort settings.
- F Charging locations.

Charging Status Icons

Displays when your vehicle is plugged in.



Not charging due to a fault.



Not currently charging.



Charging.



Waiting to charge based on charge time settings.

Charging Status

Shows the present state of the charging system.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Charge Status	Action
Will charge when plugged in	The vehicle is unplugged and starts charging once plugged in.
Will wait for preferred charging time	The vehicle is unplugged at a location with charging time preferences enabled. Charging is scheduled to start at the time displayed based on your settings. You must plug in prior to the start time shown for the vehicle to begin charging at that time.
Waiting for preferred charging time	The vehicle is plugged in at a location with charging time preferences enabled. Charging starts at the time displayed based on your charge time settings.
Charging stopped	The vehicle is plugged in and charging has been stopped through the LincolnWay app.
Charging	The vehicle is plugged in and charging.
Charged	The vehicle finished charging to the max charge limit setting.
Charging 12V battery	The vehicle is plugged in and charging the 12V battery.
Conditioning the cabin	The vehicle is plugged in and the climate control system is operating according to the departure and comfort settings.
Conditioning the battery	The vehicle is plugged in and conditioning the high voltage battery.
Vehicle charging fault	The vehicle is plugged in and there is a fault within the vehicle charging system. Unplug and plug back in. If the fault is still present, contact your authorized dealer.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Charge Status	Action
Charging station fault	The vehicle is plugged in and a fault has been detected with the charge station or charging cord. Check the charging cord and the charging station or electrical supply.
Charging station not detected	A charging coupler has been plugged into the vehicle but there is no connection with a charging power source.
Charging station paused	The vehicle is plugged in and charging has been paused at the charge station.

High Voltage Battery State of Charge

Displays the remaining charge percentage with 100% representing the total amount of energy you can get from an external charge.

Charging Time Information

When charging, the start and estimated end time displays.

When your vehicle is at a saved charging location and not plugged in, the start and end times display based on known charging infrastructure.

Note: *Charging time information is estimated. Certain conditions could result in longer charging times. See **Charging Your Vehicle** (page 236).*

Departure and Comfort



Press the edit button for departure and comfort settings.

Setting departure times allows you to control charging schedules and warm or cool your cabin and the high voltage battery when your vehicle is plugged in, so your vehicle is ready to drive when you are. By setting a departure time, your vehicle can use your charging time preferences to minimize your electricity costs but still prioritize finishing charging before your scheduled departure. The calendar view allows you to program two departure times per day for each day of the week.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

Note: By using energy from your charging source while plugged in, battery temperature can be managed for best driving performance and less energy is needed for heating or cooling of the cabin at the start of your drive. This helps maximize your driving range.

Note: You can also access this feature using the LincolnWay app.

Departure and Comfort Setup

Follow these steps to set departure times and cabin comfort level.

1. Press the edit button for departure and comfort on the charge settings screen.
2. Two time settings show for each day of the week on the departure times schedule screen. Select any one.
3. On the Departure Times settings screen, set your desired time, cabin comfort level and days of the week to repeat. Press Save.

4. Your settings are now shown on the departure times schedule screen. Press back to return to the main charge settings screen. The next departure time and cabin temperature display.

Note: Cabin conditioning comfort level could vary depending on whether you plug into a normal household outlet or a higher power outlet or charging station. The power available for conditioning is limited to the charging station power available. At low ambient temperatures and low charge power, a small amount of high voltage battery power in addition to the charging power could be used to heat the cabin.

Charging Locations



Press the edit button to set preferred charging times for a specific charging location.

Your vehicle prioritizes charging based on your preferred time settings. You can set two preferred charging time windows for weekdays and two for weekends. This feature allows you to take advantage of electric utility rate plans that offer lower pricing during certain times of day. Contact your utility company to see what plans are available.

Note: Your vehicle charges during your preferred time windows. Charging outside these windows only occurs when additional charging time is needed to reach the maximum charge limit set for this location by your next departure time. In this case, the vehicle begins charging right away after plugging in.

Note: You can also access this feature using the LincolnWay app.

Charging Location Setup



Follow these steps to set time and charge level preferences for a charging location.

1. Press the edit button for charging locations on the charge settings screen.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

2. On the charging locations screen select add new location. You can also edit settings for previously saved locations listed on this screen.
3. Select an address from the list of recent charge locations.
4. Confirm that this is the location you want to save with the help of the map view. Edit the location name if desired and set a maximum charge limit. Press continue to schedule.

Note: Depending on the GPS location, the address on the navigation may not precisely match up with your charging location. Confirm on the map that the pin is in the expected location.

Note: Charging stops when your vehicle reaches the maximum charge limit setting.



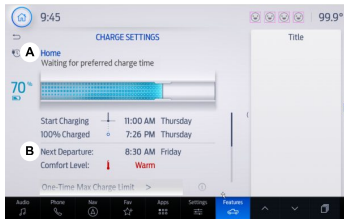
5. Set preferred charging times for weekday and/or weekend by pressing and dragging along the 24 hour time wheel. You can set up two blocks of time charge windows. Press Continue once you have your desired time settings for weekday and weekend

Note: Selecting all or none of the 24 hours results in any time of day given equal priority for charging.

6. The summary screen displays your settings for this location. Press save or press back to change your settings. Whenever your vehicle is at a saved charging location, the charge settings screen displays the location name, and the charging times are based on your preferred time settings for that location plus the next departure time.

Note: Reaching your max charge limit by your next departure time is always the priority. When charging time preferences are set, charging outside your preferred charging time windows could be necessary to finish by your next departure time. In this case, the vehicle begins charging immediately after plugging in. Charging pauses when the rest of the charge can be done within the preferred charging windows.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)



- A Charging location name.
- B Next departure time and cabin temperature.



- A On/Off switch for departure and comfort.
- B On/Off switch for charging locations.

Charging Location Name

Displays when your vehicle is at a saved charging location.

Next Departure Time and Cabin Comfort Level

Displays the next departure time and associated cabin comfort setting.

On/Off Switch for Departure and Comfort

This switch is visible when you have at least one departure time set. Use this switch to turn all departure times off and on. Switching off departure and comfort does not delete your settings, however, you must switch back on to re-enable them.

On/Off Switch for Charging Locations

This switch is visible when your vehicle is at a saved charging location. Use this switch to turn your settings off and on for this location only. Switching off for this location does not delete your settings, however, you must switch back on to re-enable them.

Note: If the charging locations switch is off, the vehicle begins charging to 100% once plugged in.

USING LINCOLNWAY AND CHARGING

The LincolnWay app allows you to do the following:

- Monitor and manage your vehicle's charging, including charge schedules and preferences.
- Locate a charger and activate a charger on the BlueOval Charge Network.
- Plan a trip and charging options along your route.
- Check charging station plug availability.
- Initiate a charge session automatically at Plug and Charge capable charge stations.
- Override charge preferences and starting and stopping charging.

For additional information, visit www.owner.lincoln.com.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

CHARGING YOUR VEHICLE – TROUBLESHOOTING

CHARGING YOUR VEHICLE – INFORMATION MESSAGES

Message	Action
Vehicle Plugged In ? Yes No	Your vehicle needs confirmation that you unplugged it before allowing a start. Make sure your vehicle is unplugged and you respond to the message before starting your vehicle.
Unplug Prior to Starting Vehicle	Your vehicle detects it is still plugged in after you attempt to start it.
Charge Station Fault See Manual	A charging fault has been detected. Check the charging cord and the charge station or electrical supply.
Charge Station Communication Error Contact Station Provider	The charging station cannot communicate with your vehicle. Contact the station provider.

Charging Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV)

CHARGING YOUR VEHICLE – FREQUENTLY ASKED QUESTIONS

Why does my vehicle have a hum or fan noise when charging?

A hum or a fan noise could be present when charging the high voltage battery. This is a normal operation as your vehicle is keeping the battery cool while charging.

CHARGING YOUR VEHICLE VIDEOS

[Lincoln Corsair Grand Touring: Charging and the Charge Status Indicator Video Link](#)

Automatic Transmission

AUTOMATIC TRANSMISSION PRECAUTIONS



WARNING: When your vehicle is stationary, keep the brake pedal fully pressed when shifting gears. Failure to follow this instruction could result in personal injury, death or property damage.



WARNING: Do not apply the brake pedal and accelerator pedal simultaneously. Applying both pedals simultaneously for more than a few seconds will limit power, which may result in difficulty maintaining speed in traffic and could lead to serious injury.



WARNING: Apply the parking brake, shift into park (P), switch the vehicle off and remove the key or remote control before you leave your vehicle. Failure to follow this instruction could result in personal injury or death.

AUTOMATIC TRANSMISSION POSITIONS

PARK (P)



WARNING: Shift into park (P) only when your vehicle is stationary.

In park (P) power is not transmitted to the driven wheels.

Note: A tone sounds if you attempt to exit your vehicle without the vehicle in park (P).

Note: Your vehicle may not shift out of park (P) if the 12V battery has run out of charge.

Note: Your vehicle may not shift out of park (P) if a fuse is blown.

Note: Your vehicle may not shift out of park (P) unless the key or remote control is inside your vehicle.

Note: The electronic parking brake could apply when you power your vehicle on with the selector in park (P).

Note: The electronic parking brake could apply if you shift to park (P) without fully pressing the brake pedal.

Note: The electronic parking brake could apply if you shift to park (P) on a slope.

Note: Do not manually release the parking brake when the selector is in park (P). See **Automatically Releasing the Electric Parking Brake** (page 273).

Note: Your vehicle could shift into park (P) if you attempt to exit your vehicle without the transmission in park (P). See **How Does Automatic Return to Park (P) Work** (page 261).

Note: A tone could sound when you select park (P).

REVERSE (R)



WARNING: Shift into reverse (R) only when your vehicle is stationary.

In reverse (R) power is transmitted to the driven wheels.

Automatic Transmission

NEUTRAL (N)



WARNING: In neutral (N) your vehicle is free to roll.

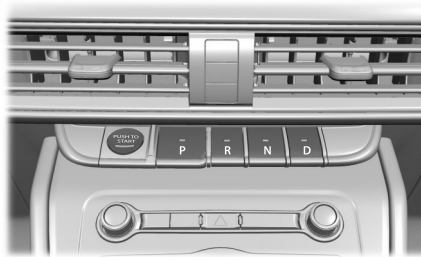
In neutral (N) power is not transmitted to the driven wheels.

DRIVE (D)

In drive (D) power is transmitted to the driven wheels.

SHIFTING YOUR VEHICLE INTO GEAR

The transmission selector is on the center stack.



1. Press and hold the brake pedal.
2. Press a button to select a position.

Note: The position illuminates on the transmission selector.

AUTOMATIC TRANSMISSION POSITION INDICATORS

The instrument cluster displays the current position.



Note: The position could illuminate on the transmission selector.

MANUALLY SHIFTING GEARS

SHIFTING USING THE PADDLE SHIFTERS

The instrument cluster displays the current gear. The current gear flashes when your vehicle cannot shift into the requested gear. Your vehicle will not shift if the requested gear raises or lowers the engine speed beyond the limit.

Your vehicle could shift when you fully press the accelerator or brake pedal.

Note: Prolonged driving with high engine speed could cause vehicle damage not covered by vehicle warranty.

Automatic Transmission

Note: Drive modes could affect when the vehicle shifts into the requested gear.



Manually Shifting in Drive (D)

Use this feature to temporarily change gear.

Note: We recommend using this feature for engine braking or driving on hilly or mountainous roads.

- Pull any paddle to switch the feature on.
- Pull the right (+) paddle to upshift.
- Pull the left (-) paddle to downshift.
- Hold the (+) paddle for a few seconds to switch the feature off.

Note: The feature switches off after a short period of time if neither paddle is pulled.

TEMPORARY NEUTRAL MODE

WHAT IS TEMPORARY NEUTRAL MODE

This mode keeps your vehicle in neutral (N), for a limited time, when you exit your vehicle or switch your vehicle off.

Note: Do not tow your vehicle in this mode.

HOW DOES TEMPORARY NEUTRAL MODE WORK

Use this mode to keep your vehicle in neutral (N) when you exit your vehicle or switch your vehicle off. For example, if you exit your vehicle before an automatic car wash.

Note: You do not need to use this mode at an automatic car wash if you stay in your vehicle with power on.

Note: Do not tow your vehicle in this mode.

Note: Automatic return to park (P) is delayed when your vehicle is in this mode. See **What Is Automatic Return to Park (P)** (page 261).

TEMPORARY NEUTRAL MODE LIMITATIONS

Your vehicle could shift to park (P) after 30 minutes, or when the vehicle battery charge level is low. Prolonged use of this mode can cause the 12 V battery to run out of charge.

Do not tow your vehicle in this mode. Failure to follow these instructions could result in vehicle damage not covered by the vehicle warranty.

ENTERING TEMPORARY NEUTRAL MODE

1. Bring your vehicle to a complete stop.
2. Press and hold the brake pedal.
3. Power your vehicle on.
4. Shift into neutral (N).

Note: An instructional message appears.

5. Press the neutral (N) button

Note: A confirmation message appears when your vehicle enters the mode.

6. Release the brake pedal.

Automatic Transmission

Note: *Your vehicle is free to roll.*

7. Switch your vehicle off.

Note: *Do not tow your vehicle in this mode.*

Note: *The neutral (N) indicator on the transmission selector may flash in this mode.*

EXITING TEMPORARY NEUTRAL MODE

1. Press the brake pedal.
2. Shift into park (P), or power your vehicle on and shift into drive (D) or reverse (R).

AUTOMATIC RETURN TO PARK (P)

WHAT IS AUTOMATIC RETURN TO PARK (P)

Your vehicle shifts into park (P) if you attempt to exit your vehicle without the vehicle in park (P).

HOW DOES AUTOMATIC RETURN TO PARK (P) WORK

Your vehicle shifts into park (P) when your vehicle is stationary and any of the following occur:

- You switch the vehicle off.
- You open the driver door with your seatbelt unlatched.
- You unlatch the driver seatbelt when the driver door is open.

Note: *Do not use automatic return to park (P) when your vehicle is moving, except in an emergency. See **Stopping the Engine When Your Vehicle is Moving** (page 208).*

AUTOMATIC RETURN TO PARK (P) LIMITATIONS

Automatic return to park (P) may not work if the door ajar sensor or seatbelt sensor are malfunctioning.

See an authorized dealer if any of the following occur:

- Seatbelt indicator illuminates or tone sounds with the seatbelt fastened.
- Door ajar indicator does not illuminate with the driver door open.
- Door ajar indicator illuminates with the driver door closed.
- Transmission not in park message appears with the driver door closed, after you shift out of park (P).

GRADE ASSIST - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

WHAT IS GRADE ASSIST

Provides additional grade braking with a combination of engine motoring and high-voltage battery charging to help maintain vehicle speed when descending a grade.

Automatic Transmission

MANUAL PARK RELEASE - GASOLINE

(IF EQUIPPED)

WHAT IS MANUAL PARK RELEASE

Manual park release allows you to shift your vehicle out of park (P) in the event of an electrical malfunction or emergency.

MANUAL PARK RELEASE PRECAUTIONS

WARNING: When doing this procedure, you need to take the transmission out of park (P) which means your vehicle can roll freely. To avoid unwanted vehicle movement, apply the parking brake prior to doing this procedure. Use wheel chocks if appropriate.

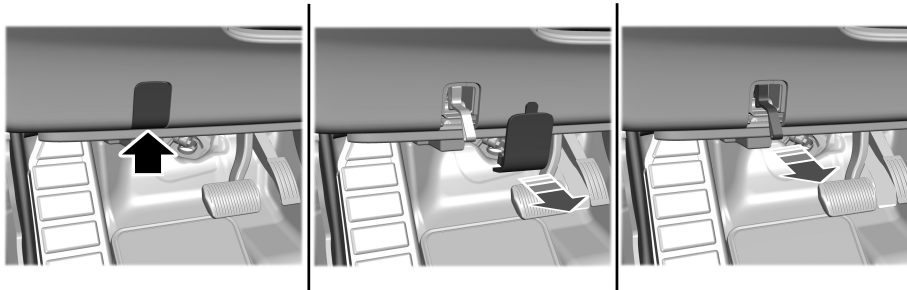
WARNING: Do not drive your vehicle until you verify that the stoplamps are working.

USING MANUAL PARK RELEASE

Activating the Manual Park Release

1. Apply the parking brake. See **What Is the Electric Parking Brake** (page 272).

Note: If the battery has run out of charge, use an external power source to apply the parking brake.



Automatic Transmission

2. Remove the access cover located to the bottom left hand side of the steering column on the lower instrument panel using a plastic wedge or pry tool.

Note: Do not pull the tether.

3. Sit in the driver seat.
4. Power your vehicle on without your foot on the brake pedal.

Note: Do not attempt this procedure when the engine is running. Failure to follow this instruction could result in vehicle damage not covered by the vehicle warranty.

5. Press and hold the brake pedal.
6. Pull the tether towards you until the lever engages.

Note: Do not use excessive force. Failure to follow this instruction could result in vehicle damage not covered by the vehicle warranty.

Note: A message appears when your vehicle is out of park (P). If you do not receive a message attempt the procedure again.

Note: A warning lamp could illuminate.

7. Release the parking brake. See **What Is the Electric Parking Brake** (page 272).
8. Switch your vehicle off.
9. Release the brake pedal.

Note: Your vehicle is free to roll.

10. Disconnect the negative battery cable from the battery as soon as it is safe to do so.

Note: If your vehicle detects wheel speed when the battery is connected, the electronic parking brake could apply.

Returning Your Vehicle to Normal Mode

1. Connect the negative battery cable to the battery as soon as it is safe to do so.

Note: If your vehicle detects wheel speed when the battery is connected, the electronic parking brake could apply.

2. Apply the parking brake. See **What Is the Electric Parking Brake** (page 272).

Note: If the battery has run out of charge, use an external power source to apply the parking brake.

3. Sit in the driver seat.
4. Press and hold the brake pedal.

Note: Do not start your vehicle.

5. Pull the tether towards you until you feel a hard stop.
6. Release tension and return tether to the stowed position.
7. Start your vehicle.
8. Confirm the instrument cluster displays park (P).

Note: If the instrument cluster does not display park (P), the warning lamp remains illuminated, or a message persists contact an authorized dealer for service.

9. Switch your vehicle off.
10. Release the brake pedal.
11. Install the access cover.

Automatic Transmission

SHIFTING YOUR IMMOBILE VEHICLE OUT OF PARK (P) - GASOLINE



WARNING: When doing this procedure, you need to take the transmission out of park (P) which means your vehicle can roll freely. To avoid unwanted vehicle movement, apply the parking brake prior to doing this procedure. Use wheel chocks if appropriate.

Use this procedure to shift your vehicle out of park (P) if you cannot start the engine.

Note: *If the battery is out of charge, use an external power source.*

Note: *Do not tow your vehicle in this mode. See **Temporary Neutral Mode Limitations** (page 260).*

Shifting Your Vehicle Out of Park (P)

1. Apply the parking brake.

Note: *If the battery is out of charge, use an external power source to apply the parking brake.*

2. Power your vehicle on without your foot on the brake pedal.
3. Fully press and hold the brake pedal.
4. Fully press and hold the accelerator pedal.
5. Shift into neutral (N).
6. Press the neutral (N) button.
7. Attempt to start your vehicle.

Note: *A confirmation message appears when your vehicle enters the mode.*

Note: *You must complete this procedure within 20 seconds. If your vehicle shifts into park (P) attempt the procedure again.*

8. Release accelerator and brake pedals.
9. Release the parking brake.

Note: *Your vehicle is free to roll.*

10. Switch your vehicle off.

Note: *Do not tow your vehicle in this mode.*

Returning Your Vehicle to Normal Mode

1. Press the brake pedal.
2. Shift into park (P).

AUTOMATIC TRANSMISSION AUDIBLE WARNINGS

Transmission Not In Park (P) Audible Warning

Sounds if you open the driver door before shifting into park (P).

Park Selection Audible Warning

Sounds when you shift into park (P).

Automatic Transmission

AUTOMATIC TRANSMISSION – TROUBLESHOOTING

AUTOMATIC TRANSMISSION – INFORMATION MESSAGES

Message	Description
Park Brake Not Applied	The electric parking brake is not fully applied.
Transmission Not in Park	A reminder to shift into park. In addition, this message is typically after reconnecting or recharging the battery until you cycle the ignition to the on mode.
SHIFT SYS FAULT Apply Park Brake Before Exiting the Vehicle	Displays when there is a system fault and the park brake needs to be pressed before exiting the vehicle. See your authorized dealer.

Message	Description
Transmission Malfunction Service Now	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
Select L To Confirm Stay In Neutral Mode	Displays when you shift into neutral (N).
Stay in Neutral Mode Engaged	Displays to confirm that your vehicle has entered Stay in Neutral Mode.
Select M To Confirm Stay In Neutral Mode	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.

All-Wheel Drive (If Equipped)

HOW DOES ALL-WHEEL DRIVE WORK

The all-wheel drive system is designed to continuously monitor and adjust power delivery to the front and rear wheels to optimize both traction and handling. The AWD system turns on when needed and does not require input from you.

Your all-wheel drive vehicle is not intended for off-road use. The AWD feature gives your vehicle some limited off-road capabilities in which driving surfaces are relatively level, obstruction-free and otherwise similar to normal on-road driving conditions. Operating your vehicle in conditions other than those, could subject the vehicle to excess stress which might result in damage which is not covered under your warranty.

ALL-WHEEL DRIVE PRECAUTIONS



WARNING: Do not become overconfident in the ability of all-wheel drive vehicles. Although an all-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in low traction situations, it won't stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

ALL-WHEEL DRIVE LIMITATIONS

Using different size tires other than the provided spare could cause system damage or disable the all-wheel drive system.

All-Wheel Drive (If Equipped)

ALL-WHEEL DRIVE – TROUBLESHOOTING

ALL-WHEEL DRIVE – INFORMATION MESSAGES

Message	Action
AWD Temporarily Disabled	The all-wheel drive system temporarily turns off to protect itself from overheating.
AWD Restored	The all-wheel drive system will resume normal function and clear this message after driving a short distance with the road tire re-installed or after the system cools.
AWD OFF	The all-wheel drive system temporarily turns off to protect itself from overheating or if you are using the temporary spare tire.
AWD Malfunction Service Required	The all-wheel drive system is not operating properly. If the warning stays on or continues to come on, contact an authorized dealer.

Brakes

BRAKE PRECAUTIONS

Wet brakes result in reduced braking efficiency. Gently press the brake pedal a few times when leaving a car wash or driving from standing water to dry the brakes.

Note: Depending on applicable laws and regulations in the country where your vehicle was originally built, the stoplamps could flash during heavy braking. The hazard warning flashers could also turn on when your vehicle comes to a stop.

ANTI-LOCK BRAKING SYSTEM

ANTI-LOCK BRAKING SYSTEM LIMITATIONS

The anti-lock braking system does not eliminate the risk of crash when:

- You drive too closely to the vehicle in front of you.
- Your vehicle is hydroplaning.
- You take corners too fast.
- The road surface is poor.

Note: If the system activates, the brake pedal could pulse and travel further. Maintain pressure on the brake pedal.

ANTI-LOCK BRAKING SYSTEM INDICATORS

This system helps you maintain steering control during emergency stops by keeping the brakes from locking.



If the warning lamp illuminates when you are driving, this indicates a malfunction. Your vehicle continues to have normal braking without the anti-lock brake system function. Have your vehicle checked as soon as possible.

The warning lamp also momentarily illuminates when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked by an authorized dealer.

BRAKE



The warning lamp illuminates when you engage the parking brake and the ignition is on.

If it illuminates when your vehicle is moving, make sure the parking brake is disengaged. If the parking brake is disengaged, this indicates low brake fluid level or a brake system fault. Have your vehicle checked as soon as possible.

The warning lamp also momentarily illuminates when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked by an authorized dealer.

BRAKE OVER ACCELERATOR

In the event the accelerator pedal becomes stuck or entrapped, apply steady and firm pressure to the brake pedal to slow the vehicle and reduce engine power. If you experience this condition, apply the brakes and bring your vehicle to a safe stop. Move

Brakes

the transmission to park (P), switch the engine off and apply the parking brake. Inspect the accelerator pedal for any interference. If none are found and the condition persists, have your vehicle towed to the nearest authorized dealer.

LOCATING THE BRAKE FLUID RESERVOIR

See **Under Hood Overview** (page 428).

CHECKING THE BRAKE FLUID



WARNING: Do not use any fluid other than the recommended brake fluid as this will reduce brake efficiency. Use of incorrect fluid could result in the loss of vehicle control, serious personal injury or death.



WARNING: Only use brake fluid from a sealed container. Contamination with dirt, water, petroleum products or other materials may result in brake system damage or failure. Failure to adhere to this warning could result in the loss of vehicle control, serious personal injury or death.



WARNING: Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your physician.



WARNING: The brake system could be affected if the brake fluid level is below the **MIN** mark or above the **MAX** mark on the brake fluid reservoir.



1. Park your vehicle on a level surface.
2. Look at the brake fluid reservoir to see where the brake fluid level is relative to the **MIN** and the **MAX** marks on the reservoir.

Note: To avoid fluid contamination, the reservoir cap must remain in place and fully tight, unless you are adding fluid.

Brakes

Only use fluid that meets our specifications. See **Capacities and Specifications** (page 495).

BRAKE FLUID SPECIFICATION

See **Brake Fluid Specification** (page 511).

BRAKES – TROUBLESHOOTING

BRAKES – WARNING LAMPS



WARNING: Driving your vehicle with the warning lamp on is dangerous. A significant decrease in braking performance may occur. It may take you longer to stop your vehicle. Have your vehicle checked as soon as possible. Driving extended distances with the parking brake engaged can cause brake failure and the risk of personal injury.



If the ABS indicator illuminates when you are driving, this indicates a malfunction. Your vehicle continues to have normal braking without the anti-lock braking system function. See an authorized dealer.

It also momentarily illuminates when you switch the ignition on to confirm the lamp is functional. If it does not illuminate when you switch the ignition on, or begins to flash at any time, have the system checked by an authorized dealer.



The brake indicator momentarily illuminates when you switch the ignition on to confirm the lamp is functional. It may also illuminate when you apply the parking brake and the ignition is on. If it illuminates when your vehicle is moving, make sure the parking brake is disengaged. If the parking brake is disengaged, this indicates low brake fluid level or a brake system fault. See an authorized dealer.

BRAKES – INFORMATION MESSAGES

Brake Fluid Level Low	The brake fluid level is low and the brake system should be inspected immediately. See Checking the Brake Fluid (page 269).
Check Brake System	The brake system needs servicing. Stop the vehicle in a safe place. Contact an authorized dealer.

BRAKES – FREQUENTLY ASKED QUESTIONS

Is brake dust on the wheels normal?

Brake dust could accumulate on the wheels, even under normal driving conditions. Some dust is inevitable as the brakes wear and does not contribute to brake noise. See **Cleaning Wheels** (page 453).

Brakes

Will wet driving conditions effect my braking abilities?

Wet brakes result in reduced braking efficiency. Gently press the brake pedal a few times when driving from a car wash or standing water to dry the brakes.

Is brake noise considered normal?

Occasional brake noise is normal. If a metal-to-metal, continuous grinding or continuous squeal sound is present, the brake linings may be worn-out and an authorized dealer should check them. If the vehicle has continuous vibration or shudder in the steering wheel while braking, an authorized dealer should check your vehicle.

When should you replace the brake fluid?

Brake fluid absorbs water over time which degrades the effectiveness of the brake fluid. Change the brake fluid at the specified intervals to prevent degraded braking performance. See **Normal Scheduled Maintenance** (page 568).

Electric Parking Brake

WHAT IS THE ELECTRIC PARKING BRAKE

The electric parking brake is used to hold your vehicle on slopes and flat roads.

APPLYING THE ELECTRIC PARKING BRAKE



WARNING: Apply the parking brake, shift into park (P), switch the ignition off and remove the key before you leave your vehicle. Failure to follow this instruction could result in personal injury or death.



WARNING: If you drive extended distances with the parking brake applied, you could cause damage to the brake system.



WARNING: The electric parking brake does not operate if the vehicle battery has run out of charge.



The switch is on the lower part of the instrument panel.

Pull the switch up to apply the electric parking brake. The red warning lamp flashes, then steadily illuminates when the parking brake is applied.

Note: You can apply the electric parking brake when the ignition is off.

Note: The electric parking brake could automatically apply when park (P) is selected. See **Park (P)** (page 258).

APPLYING THE ELECTRIC PARKING BRAKE IN AN EMERGENCY

You can use the electric parking brake to slow or stop your vehicle in an emergency.

Pull the switch up and hold it.

The red warning lamp illuminates, a tone sounds and the stoplamps turn on when you use the electric parking brake in an emergency.

The electric parking brake continues to slow your vehicle down unless you release the switch.

Note: Do not apply the electric parking brake when your vehicle is moving, except in an emergency. If you repeatedly use the electric parking brake to slow or stop your vehicle, you could cause damage to the brake system.

MANUALLY RELEASING THE ELECTRIC PARKING BRAKE

1. Switch the ignition on.
2. Press and hold the brake pedal.
3. Push the switch down.

The red warning lamp turns off.

Pulling Away on a Hill When Towing a Trailer

1. Press and hold the brake pedal.
2. Pull the switch upward and hold it.
3. Shift into gear.

Electric Parking Brake

4. Press the accelerator pedal until engine has developed sufficient torque to prevent your vehicle from rolling down the hill.
5. Release the switch and pull away in a normal manner.

AUTOMATICALLY RELEASING THE ELECTRIC PARKING BRAKE

1. Close the driver door.
2. Shift into gear.
3. Press the accelerator pedal and pull away in a normal manner.

ELECTRIC PARKING BRAKE AUDIBLE WARNING

Sounds when the parking brake is on and your vehicle is moving. If the warning tone continues after you have released the parking brake, this indicates a malfunction. Have your vehicle checked as soon as possible.

RELEASING THE ELECTRIC PARKING BRAKE IF THE VEHICLE BATTERY HAS RUN OUT OF CHARGE



WARNING: The electric parking brake does not operate if the vehicle battery has run out of charge.

Connect a booster battery to the vehicle battery to release the electric parking brake if the vehicle battery has run out of charge. See **Jump Starting the Vehicle** (page 402).

ELECTRIC PARKING BRAKE – TROUBLESHOOTING

ELECTRIC PARKING BRAKE – WARNING LAMPS

Brake System



It illuminates red when you apply the parking brake and your vehicle is on. If the lamp flashes when the parking brake has been released, this indicates the parking brake system requires service. Have your vehicle checked as soon as possible.

Note: Lamps may vary depending on region.

Electric Parking Brake



When the lamp illuminates yellow, it indicates a malfunction in the electric parking brake. Have your vehicle checked as soon as possible.

Note: Lamps may vary depending on region.

Electric Parking Brake

ELECTRIC PARKING BRAKE – INFORMATION MESSAGES

Message	Action
To Release: Press Brake and Switch	The electric parking brake is set and a manual release is attempted without the brake pedal being pressed.
Park Brake Use Switch to Release	The electric parking brake is set and an automatic release is attempted but cannot be performed. Perform a manual release.
Release Park Brake	The electric parking brake is set and your vehicle speed exceeds 3 mph (5 km/h). Release the electric parking brake before continuing to drive.
Park Brake Not Applied	The electric parking brake is not fully applied.
Park Brake Not Released	The electric parking brake is not fully released.
Brake maintenance mode	The electric parking brake system has been put into a special mode to allow brake service. Have the system checked as soon as possible.
Park Brake Limited Function Service Required	The electric parking brake system has detected a condition that requires service. Some functionality may still be available. Have the system checked as soon as possible.
Park Brake Malfunction Service Now	The electric parking brake system has detected a condition that requires service. Have the system checked as soon as possible.

Reverse Braking Assist (If Equipped)

WHAT IS REVERSE BRAKING ASSIST

Reverse braking assist is designed to reduce impact damage or assist in avoiding a collision while in reverse (R). Using sensors on the rear of the vehicle, it can detect a possible collision and apply the brakes. If full braking occurs, the system attempts to stop the vehicle a safe distance from the obstacle.

HOW DOES REVERSE BRAKING ASSIST WORK

Reverse braking assist functions when in reverse (R) and traveling at a speed of 1–7 mph (2–12 km/h).

If the system detects an obstacle behind your vehicle, it provides a warning through the rear parking aid or cross traffic alert system.

REVERSE BRAKING ASSIST PRECAUTIONS



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: To help avoid personal injury, always use caution when in reverse (R) and when using the sensing system.



WARNING: The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.



WARNING: Traffic control systems, fluorescent lamps, inclement weather, air brakes, external motors and fans may affect the correct operation of the sensing system. This may cause reduced performance or false alerts.



WARNING: Some situations and objects prevent hazard detection. For example low or direct sunlight, inclement weather, unconventional vehicle types, and pedestrians. Apply the brakes when necessary. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Do not use the system with accessories that extend beyond the front or rear of your vehicle, for example a trailer hitch or bike rack. The system is not able to make corrections for the additional length of the accessories.

Reverse Braking Assist (If Equipped)

The system only applies the brakes for a short period of time when an event occurs. Act as soon as you notice the brakes apply to remain in control of the vehicle. If you do not intervene the vehicle may start to move again.

Note: Certain add-on devices around the bumper or fascia may create false alerts. For example, large trailer hitches, bicycle or surfboard racks, license plate brackets, bumper covers or any other device that may block the normal detection zone of the system. Remove the add-on device to prevent false alerts.

Note: The system does not react to small or moving objects, particularly those close to the ground.

Note: The system does not operate during hard acceleration or steering.

Note: If your vehicle sustains damage to the bumper or fascia leaving it misaligned or bent, it could alter the sensing zone causing inaccurate measurement of obstacles or false alerts.

Note: Vehicle loading and suspension changes can impact the angle of the sensors and may change the normal detection zone of the system resulting in inaccurate measurement of obstacles or false alerts.

Note: When you connect a trailer, the system may detect the trailer and provide an alert, or the system turns off. If the system does not turn off, manually switch the system off after you connect the trailer.

Note: You may experience reduced system performance on road surfaces that limit deceleration. For example, roads with ice, loose gravel, mud or sand.

SWITCHING REVERSE BRAKING ASSIST ON AND OFF

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Switch **Reverse Brake Assist** on or off.

Note: The system is unavailable when the rear parking aid, cross traffic alert or traction control is off.

Note: If your vehicle is not equipped with cross traffic alert the reverse braking assist relies on input from the rear parking aid and rear camera sensors.

Note: The default setting is on in some regions.

OVERRIDING REVERSE BRAKING ASSIST

There could be instances when unexpected or unwanted braking occurs. Firmly pressing the accelerator pedal or switching the feature off overrides the system.

REVERSE BRAKING ASSIST INDICATORS

If the system determines that a collision with an obstacle may occur, full braking may apply.



A message and warning indicator appear when the system applies the brakes.

Reverse Braking Assist (If Equipped)

REVERSE BRAKING ASSIST – TROUBLESHOOTING

REVERSE BRAKING ASSIST – INFORMATION MESSAGES

Message	Description
Reverse Brake Assist	Displays when the system applies the brakes and remains on for a few seconds.
Reverse Brake Assist Not Available See Manual	Make sure that all doors, liftgate or tailgate and hood are closed. Drive the vehicle on a straight road for a short period. Make sure the parking aids and cross traffic alert systems are on. If the message remains on, have the system checked as soon as possible.
Reverse Brake Assist Fault	Displays when a system error has occurred. Have your vehicle checked as soon as possible.
Reverse Brake Assist Off	Displays when reverse brake assist is off.

Reverse Braking Assist (If Equipped)

REVERSE BRAKING ASSIST – FREQUENTLY ASKED QUESTIONS

Why is reverse braking assist unavailable?

- Make sure the reverse braking assist is on. See **Switching Reverse Braking Assist On and Off** (page 276).
- Make sure that all doors, liftgate or tailgate and hood are closed. Drive the vehicle on a straight road for a short period. If the message remains, have the system checked.
- If your vehicle has the cross traffic alert system, make sure it is on. See **Switching Cross Traffic Alert On and Off** (page 358).
- Make sure the rear parking aid system is on. See **Rear Parking Aid** (page 294).
- Make sure the traction control is on. See **Switching Traction Control On and Off** (page 286).

Note: *The traction control automatically turns off if four-wheel drive low and certain drive modes such as mud/ruts and snow/sand is activated.*

- Your vehicle may have sustained a rear end impact. Have the sensors checked for proper coverage and operation.
- An anti-lock brake, traction control or stability control event may have occurred. Reverse braking assist resumes operation when the event is complete.
- Make sure the rear view camera and 360 degree camera are not dirty or obstructed. If dirty, clean the camera. If the message still appears after cleaning the camera, wait a short time for the message to clear. If the message does not clear, have the system checked.
- Make sure the cross traffic alert, rear parking aid and side parking aid sensors are not blocked or faulty. See **Locating the Cross Traffic Alert Sensors** (page 358). See **Locating the Rear Parking Aid Sensors** (page 294). See **Locating the Side Parking Aid Sensors** (page 297).
- You recently had your vehicle serviced, or the battery disconnected. Drive your vehicle a short distance to resume system operation.
- Reverse braking assist does not function when you connect a trailer. Operation resumes when you disconnect the trailer.

Note: *If the answers to why the system is unavailable do not assist in returning reverse braking assist to available, have the system checked as soon as possible.*

REVERSE BRAKING ASSIST VIDEOS

[Lincoln Reverse Brake Assist Video Link](#)

Cross Traffic Braking (If Equipped)

WHAT IS CROSS TRAFFIC BRAKING

The system is designed to reduce impact damage or assist in avoiding a collision by using the sensors on the rear of your vehicle to detect a possible collision and applying the brakes.

HOW DOES CROSS TRAFFIC BRAKING WORK


The system only reacts for vehicles approaching from the sides when you shift into reverse (R).


If the system detects a vehicle approaching your vehicle, it provides a warning through the cross traffic alert system. See **What Is Cross Traffic Alert** (page 357).


The system only applies the brakes for a short period of time when an event occurs. Take action as soon as you notice the system applying the brakes in order to remain in control of your vehicle, the system does not do this for you.


Note: You need to enable cross traffic alert for the system to function.


CROSS TRAFFIC BRAKING PRECAUTIONS

 **WARNING:** You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** To help avoid personal injury, always use caution when in reverse (R) and when using the sensing system.

 **WARNING:** The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.

 **WARNING:** Do not use the system with accessories that extend beyond the front or rear of your vehicle, for example a trailer hitch or bike rack. The system is not able to make corrections for the additional length of the accessories.

 **WARNING:** Some situations and objects prevent hazard detection, for example, inclement weather, unconventional vehicle types and pedestrians. Apply the brakes when necessary. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

Note: If your vehicle sustains damage to the bumper or fascia leaving it misaligned or bent, it could alter the sensing zone causing inaccurate measurement of obstacles or false alerts.

Note: Vehicle loading and suspension changes can impact the angle of the sensors and may change the normal detection zone of the system resulting in inaccurate measurement of obstacles or false alerts.

Cross Traffic Braking (If Equipped)

Note: When you connect a trailer, the system may detect the trailer and provide an alert, or the system turns off. If the system does not turn off, switch the system off manually after you connect the trailer.

Note: You may experience reduced system performance on road surfaces that limit deceleration. For example, roads with ice, loose gravel, mud or sand.

SWITCHING CROSS TRAFFIC BRAKING ON AND OFF

1. Press **Features** on the touchscreen.

2. Press **Driver Assistance**.
3. Switch **Cross Traffic Braking** on or off.

OVERRIDING CROSS TRAFFIC BRAKING

There could be instances when unexpected or unwanted braking occurs. Firmly pressing the accelerator pedal or switching the feature off overrides the system.

CROSS TRAFFIC BRAKING INDICATORS

If the system determines that a collision with an obstacle may occur, full braking may apply. Bring your vehicle to a stop a safe distance away from the obstacle.



A message and warning indicator appear when the system applies the brakes.

Cross Traffic Braking (If Equipped)

CROSS TRAFFIC BRAKING – TROUBLESHOOTING

CROSS TRAFFIC BRAKING – INFORMATION MESSAGES

Message	Action
Reverse Brake Assist Not Available See Manual	Drive the vehicle on a straight road for a short period. Make sure the parking aids and cross traffic alert systems are on. If the message remains on, have the system checked as soon as possible.
Reverse Brake Assist Fault	Displays when a system error has occurred. Have your vehicle checked as soon as possible.
Reverse Brake Assist Off	Displays when cross traffic braking is off.

CROSS TRAFFIC BRAKING – FREQUENTLY ASKED QUESTIONS

Why is cross traffic braking unavailable?

- Make sure the cross traffic alert system is on. See **Cross Traffic Alert** (page 357).
- The vehicle has sustained a rear end impact. Contact an authorized dealer to have the sensors checked for proper coverage and operation.
- An ABS, traction control or stability control event may have occurred. Cross traffic braking resumes operation when the event is complete.
- Make sure there are no blocked or faulted sensors. See **Cross Traffic Alert** (page 357).
- You recently had your vehicle serviced, or the battery disconnected. Drive your vehicle a short distance to resume system operation.

Note: *If the answers to why the system is unavailable do not assist in returning cross traffic braking to available, have the system checked as soon as possible.*

Hill Start Assist

WHAT IS HILL START ASSIST


Hill Start Assist makes it easier for you to pull away when your vehicle is on a slope without using the parking brake.


HOW DOES HILL START ASSIST WORK

When the system activates, your vehicle remains stationary for a few seconds after you release the brake pedal. This gives you time to move your foot from the brake pedal to the accelerator pedal. The brakes release when you apply the accelerator pedal and the vehicle begins to move forward, or the vehicle is stationary beyond hill start assist hold time.

The system activates when your vehicle is in any forward gear and facing uphill, or when your vehicle is in reverse (R) and facing downhill.

HILL START ASSIST PRECAUTIONS

**WARNING:** The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake.

**WARNING:** You must remain in your vehicle when the system turns on. At all times you are responsible for controlling your vehicle, supervising the system, and intervening if required. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

HILL START ASSIST – TROUBLESHOOTING

HILL START ASSIST – INFORMATION MESSAGES

Message	Action
Hill Start Assist Not Available	Displays when system is not available. Have your vehicle checked as soon as possible.

Auto Hold

HOW DOES AUTO HOLD WORK

Auto hold applies the brakes to hold your vehicle after you bring the vehicle to a stop. This can help when waiting on a hill or in traffic.

SWITCHING AUTO HOLD ON AND OFF



WARNING: The system does not replace the parking brake. When you leave your vehicle, always apply the parking brake.



WARNING: You must remain in your vehicle when the system turns on. At all times you are responsible for controlling your vehicle, supervising the system, and intervening if required. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

You can switch the system on or off by accessing the menu in the SYNC display screen.

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.

Note: You can only switch the system on after you close the driver door, and fasten your seatbelt.

Note: The system remembers the last setting when you start your vehicle.

Note: When using an automatic car wash, make sure to switch auto hold off, or shift to neutral (N) with the brake pedal applied to ensure auto hold is not active.

USING AUTO HOLD

1. Bring your vehicle to a complete stop. The auto hold active indicator illuminates in the information display.
2. Release the brake pedal. The system holds your vehicle at a standstill. The auto hold active indicator remains illuminated in the information display.

3. Apply the accelerator and drive off in a normal manner. The system releases the brakes and the auto hold active indicator switches off.

Note: The system only activates if you apply enough brake pressure on the brake pedal to bring the vehicle to a standstill.

Note: Under certain conditions, the system could apply the electric parking brake. The brake system warning lamp illuminates. The electric parking brake releases when you press the accelerator pedal. See **Automatically Releasing the Electric Parking Brake** (page 273).

Note: The system switches off if you shift into reverse (R) or neutral (N) while pressing the brake pedal.

There could be actions that can cause the auto hold system not to work when the following occur:

- When you use active park assist.
- Your vehicle is in stay in neutral mode.
- The driver door is open.
- You shift into reverse (R) or neutral (N) before the system is active.

Auto Hold

AUTO HOLD INDICATORS



Illuminates when the system is active.



Illuminates when the system is on but cannot hold your vehicle at a standstill at this particular time.

AUTO HOLD VIDEOS

[*Auto Hold Video Link*](#)

Traction Control

HOW DOES TRACTION CONTROL WORK

If your vehicle begins to slide, the system applies the brakes to individual wheels and, when needed, reduces power at the same time. If the wheels spin when accelerating on slippery or loose surfaces, the system reduces power in order to increase traction.

SWITCHING TRACTION CONTROL ON AND OFF



WARNING: Operating your vehicle with the traction control disabled could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.

The traction control system turns on each time you switch the power on.

If your vehicle is stuck in mud or snow, switching traction control off may be beneficial as this allows the wheels to spin.

Note: When you switch traction control off, stability control remains fully active.

TRACTION CONTROL INDICATOR

Stability and Traction Control Indicator



If the indicator does not illuminate when you switch the ignition on, or remains on when the engine is running, this indicates a malfunction. Have your vehicle checked by an authorized dealer as soon as possible.



The traction control off indicator illuminates when you switch the traction control system off, or when an alternative stability control mode is selected that requires the traction control off depending on the drive mode selected.

TRACTION CONTROL – TROUBLESHOOTING

TRACTION CONTROL – WARNING LAMPS

System Messages



The traction control light temporarily illuminates on start-up and flashes when activated by a driving condition.

The traction control off light temporarily illuminates on start-up and stays on:

- When you switch the traction control system off.
- When you select an alternative stability control mode.
- If a problem occurs in the system.

Traction Control

TRACTION CONTROL – INFORMATION MESSAGES

AdvanceTrac™ and Traction Control

Message	Action
Service AdvanceTrac	The system detects a condition that requires service. Contact an authorized dealer as soon as possible.
AdvanceTrac Off	The status of the AdvanceTrac system after you switched it off.
AdvanceTrac On	The status of the AdvanceTrac system after you switched it on.
AdvanceTrac SPORT MODE	The status of the AdvanceTrac sport mode after you switched it on.
Traction Control Off	The status of the traction control system after you switched it off.
Traction Control On	The status of the traction control system after you switched it on.

Stability Control

HOW DOES STABILITY CONTROL WORK



WARNING: Vehicle modifications involving braking system, aftermarket roof racks, suspension, steering system, tire construction and wheel and tire size may change the handling characteristics of your vehicle and may adversely affect the performance of the electronic stability control system. In addition, installing any stereo loudspeakers may interfere with and adversely affect the electronic stability control system. Install any aftermarket stereo loudspeaker as far as possible from the front center console, the tunnel, and the front seats in order to minimize the risk of interfering with the electronic stability control sensors. Reducing the effectiveness of the electronic stability control system could lead to an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.



WARNING: Remember that even advanced technology cannot defy the laws of physics. It's always possible to lose control of a vehicle due to inappropriate driver input for the conditions. Aggressive driving on any road condition can cause you to lose control of your vehicle increasing the risk of personal injury or property damage. Activation of the electronic stability control system is an indication that at least some of the tires have exceeded their ability to grip the road; this could reduce the operator's ability to control the vehicle potentially resulting in a loss of vehicle control, vehicle rollover, personal injury and death. If your electronic stability control system activates, **SLOW DOWN**.

If a driving condition activates either the stability control or the traction control system you may experience the following conditions:

- The stability and traction control light flashes.
- Your vehicle slows down.
- Reduced engine power.

The stability control system has several features built into it to help you maintain control of your vehicle:

Electronic Stability Control

Electronic stability control enhances your vehicle's ability to prevent skids or lateral slides by applying brakes to one or more of the wheels individually and, if necessary, reducing engine power.

Roll Stability Control

Roll stability control enhances your vehicle's ability to prevent rollovers by detecting your vehicle's roll motion and the rate at which it changes by applying the brakes to one or more wheels individually.

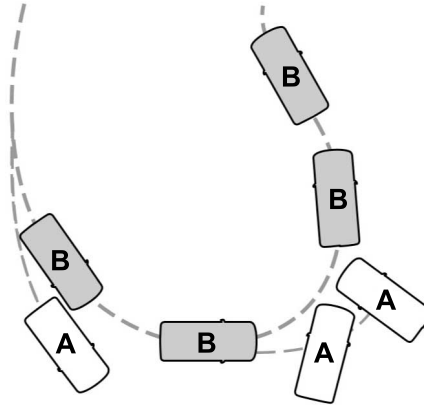
Stability Control

Curve Control

Curve control enhances your vehicle's ability to follow the road when cornering severely or avoiding objects in the roadway. Curve control operates by reducing engine power and, if necessary, applying brakes to one or more of the wheels individually.

Traction Control

Traction control enhances your vehicle's ability to maintain traction of the wheels by detecting and controlling wheel spin. See **How Does Traction Control Work** (page 286).



- A Vehicle without stability control skidding off its intended route.
- B Vehicle with stability control maintaining control on a slippery surface.

SWITCHING STABILITY CONTROL ON AND OFF

The system turns on each time you switch the ignition on.

When you shift the transmission into reverse (R), the systems are disabled.

You can switch the traction control system off or on independently. See **Switching Traction Control On and Off** (page 286).

STABILITY CONTROL INDICATOR



The system turns on each time you switch the ignition on. You can switch off the traction control portion of the system independently. See **How Does Traction Control Work** (page 286).

Stability Control

STABILITY CONTROL – TROUBLESHOOTING

STABILITY CONTROL – WARNING LAMPS

Stability Control



It flashes when the system is active. If it remains illuminated or does not illuminate when you switch the ignition on, this indicates a system error. During a system error the system switches off. Have the system checked by an authorized dealer immediately.

Stability Control Off



Illuminates when you switch the system off. It goes out when you switch the system back on or when you switch the ignition off.

STABILITY CONTROL – INFORMATION MESSAGES

Service AdvanceTrac	Displayed when the system has detected a condition that requires service. Contact your authorized dealer as soon as possible.
AdvanceTrac Off On	The traction control has been disabled or enabled by the driver

Steering

ELECTRIC POWER STEERING

HOW DOES ELECTRIC POWER STEERING WORK

The electric power steering system assists the brake system to help operate advanced stability control and accident avoidance systems.

If your vehicle loses electrical power or detects a concern when you are driving the system switches off and you retain normal steering function. Additionally, whenever the battery is disconnected or a new battery is installed, you must drive your vehicle a short distance before the system relearns the strategy and reactivates all systems.

ELECTRIC POWER STEERING PRECAUTIONS



WARNING: The electric power steering system has diagnostic checks that continuously monitor the system. If a fault is detected, a message displays in the information display. Stop your vehicle as soon as it is safe to do so. Switch the vehicle off. After at least 10 seconds, switch the vehicle on and watch the information display for a steering system warning message. If a steering system warning message returns, have the system checked as soon as possible.



WARNING: If the system detects an error, you may not feel a difference in the steering, however a serious condition may exist. Have your vehicle checked as soon as possible. Failure to do so may result in loss of steering control.

Adapt your speed and driving behavior according to reduced steering assist.

Extreme continuous steering may increase the effort to steer. This occurs to prevent internal overheating and damage to the steering system. If this occurs, you will not lose the ability to steer your vehicle manually nor will it cause damage to the system. Normal steering and driving allows the system to cool down and steering assist returns to normal.

Note: *There is no fluid reservoir to check or fill.*

STEERING – TROUBLESHOOTING

STEERING – WARNING INDICATORS



The electric power steering system indicator illuminates if the system detects a fault during the continuous diagnostic checks.

Note: *If a red warning message displays, stop your vehicle as soon as it is safe to do so.*

Steering

STEERING – INFORMATION MESSAGES

Message	Action
Steering Fault Service Now	The power steering system has detected a condition that requires service. Have your vehicle checked as soon as possible.
Steering Loss Stop Safely	The power steering system is not working. Stop your vehicle in a safe place. Have your vehicle checked as soon as possible.
Steering Assist Fault Service Required	The power steering system has detected a condition that requires service. Have your vehicle checked as soon as possible.
Steering Lock Malfunction Service Now	The steering system has detected a condition that requires service. Have your vehicle checked as soon as possible.

Parking Aids

PARKING AID PRECAUTIONS



WARNING: To help avoid personal injury, always use caution when in reverse (R) and when using the sensing system.



WARNING: The system may not detect objects with surfaces that absorb reflection. Always drive with due care and attention. Failure to take care may result in a crash.



WARNING: Traffic control systems, fluorescent lamps, inclement weather, air brakes, external motors and fans may affect the correct operation of the sensing system. This may cause reduced performance or false alerts.



WARNING: The system may not detect small or moving objects, particularly those close to the ground.



WARNING: The parking aid system can only assist you to detect objects when your vehicle is moving at parking speeds. To help avoid personal injury you must take care when using the parking aid system.



WARNING: The system may not function if the sensor is blocked.



WARNING: In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.



WARNING: If damage occurs in the immediate area surrounding the sensor, have your vehicle checked as soon as possible.

Note: If your vehicle sustains damage leaving the sensors misaligned, this will cause inaccurate measurements or false alerts.

When you connect a trailer to your vehicle, the rear parking aid detects the trailer and provides an alert. Disable the parking aid when you connect a trailer to prevent the alert.

Note: Connected trailers might be detected by the vehicle and parking aid turns off automatically in those instances.

Note: Certain add-on devices installed around the bumper or fascia may create false alerts, for example, large trailer hitches, bike or surfboard racks, license plate brackets, bumper covers or any other device that could block the normal detection zone of the parking aid system. Aftermarket spare tires or spare tire covers mounted to the rear liftgate could cause false alerts from the park aid system. Remove the add-on device to prevent false alerts.

Note: Keep the sensors free from snow, ice and large accumulations of dirt. If the sensors are covered, the system's accuracy can be affected.

Do not clean the sensors with sharp objects.

Parking Aids

SWITCHING PARKING AID ON AND OFF



Press the parking aid button on the touchscreen and use the menu to switch the system on and off.



You can also switch the system on and off by pressing the button on the rear view camera screen.

REAR PARKING AID

WHAT IS THE REAR PARKING AID

Rear parking sensors detect objects behind your vehicle when in reverse (R).

REAR PARKING AID LIMITATIONS

There is a decreased coverage area at the outer corners.

The rear parking aid sensors are active when your vehicle is in reverse (R) and the vehicle speed is less than 5 mph (8 km/h).

The sensor coverage area is up to 71 in (180 cm) from the rear bumper.

The rear parking aid detects large objects when you shift into reverse (R) and any of the following occur:

- Your vehicle is moving backward at a low speed.
- Your vehicle is stationary but an object is approaching the rear of your vehicle at a low speed.
- Your vehicle is moving backward at a low speed and an object is moving towards your vehicle, for example another vehicle at a low speed.

The system shall provide no audible warning for the object behind the vehicle when in neutral (N) gear.

LOCATING THE REAR PARKING AID SENSORS



The rear parking aid sensors are in the rear bumper.

Parking Aids

REAR PARKING AID AUDIBLE WARNINGS

A warning tone sounds when your vehicle approaches an object. As your vehicle moves closer to an object, the rate of the tone increases. The warning tone continuously sounds when an object is 12 in (30 cm) or less from the rear bumper.

If your vehicle remains stationary for a few seconds, the audible warning turns off. If your vehicle moves backward the tone sounds again.

Note: *When the parking aid system sounds a tone, the audio system could reduce the set volume.*

FRONT PARKING AID

WHAT IS THE FRONT PARKING AID

Front parking sensors detect objects in front of your vehicle.

FRONT PARKING AID LIMITATIONS

The front parking aid sensors are active when your vehicle is in any position other than park (P) and the vehicle speed is less than 5 mph (8 km/h).

The sensor coverage area is up to 28 in (70 cm) from the bumper.

If your vehicle is in reverse (R), the front parking aid detects objects when your vehicle is moving at a low speed or an object is moving toward your vehicle and provides an audible warning, for example another vehicle at a low speed. If your vehicle remains stationary for a few seconds, the audible warning turns off. Visual indication is always active in reverse (R).

If your vehicle is in any forward gear, the front parking aid provides audible warnings and visual indication when your vehicle is moving at a speed of 5 mph (8 km/h) or below and the system detects an object within the detection zone. If your vehicle remains stationary for a few seconds, the visual indication and audible warning turns off.

If your vehicle is in neutral (N), the front and rear sensors provide visual indication only when your vehicle is moving below a speed of 5 mph (8 km/h) and obstacles are detected inside the detection areas. Once your vehicle stops, the visual indication and audible warning stops after a few seconds.

LOCATING THE FRONT PARKING AID SENSORS



The front parking aid sensors are in the front bumper.

Parking Aids

FRONT PARKING AID AUDIBLE WARNINGS

A warning tone sounds when there is an object within 28 in (70 cm) from the front bumper. As your vehicle moves closer to an object, the rate of the tone increases.

The warning tone continuously sounds when an object is 12 in (30 cm) or less from the front bumper.

Note: *If the detected object is 12 in (30 cm) or less from your vehicle, visual indication remains on.*

SIDE PARKING AID

WHAT IS THE SIDE PARKING AID

The front and rear outermost parking aid sensors map objects that are near to the sides of your vehicle.

SIDE PARKING AID LIMITATIONS

The sensor coverage is up to 24 in (60 cm) from the sides of your vehicle.

The side parking aid may not function if:

- Your vehicle remains stationary for over two minutes.
- The anti-lock brake system activates.
- The traction control system activates.
- Your vehicle is in park (P).
- The steering wheel angle information is not available. You must drive at least 492 ft (150 m) above 19 mph (30 km/h) to reset the steering wheel angle information.

Note: *If you switch traction control off, the side sensing system also turns off.*

To reinitialize the system, drive the length of your vehicle.

The side parking aid does not detect an object that is moving toward the side of your vehicle, for example another vehicle moving at a low speed, if it does not pass a front or rear parking aid sensor.

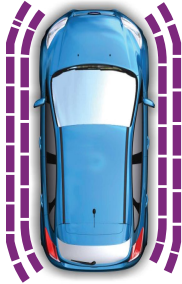
If the transmission is in reverse (R), the side sensing system provides audible warnings. When your vehicle is moving slowly, obstacles are detected within 24 in (60 cm) and are inside the driving path of your vehicle. If your vehicle remains stationary for a few seconds, the audible warning turns off. Visual indication is always present in reverse (R).

If your vehicle is in neutral (N), the side sensing system provides visual indication only when your vehicle is moving slowly and there is a front or rear parking aid obstacle detected, and the side obstacle is within 24 in (60 cm) from the side of your vehicle. If your vehicle remains stationary for a few seconds, the visual indication turns off.

If the transmission is in drive (D) or any other forward gear, the side sensing system provides audible and visual warnings. When your vehicle is moving slowly, obstacles are detected within 24 in (60 cm) and are inside the driving path of your vehicle. If your vehicle remains stationary for a few seconds, the visual indication and audible warning turns off.

Parking Aids

LOCATING THE SIDE PARKING AID SENSORS

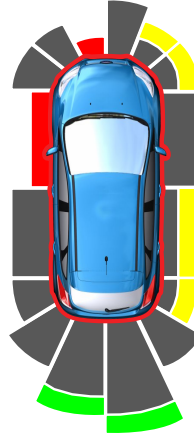


The side parking sensors are located in the sides of the front and rear bumpers.

SIDE PARKING AID AUDIBLE WARNINGS

When the side parking aid detects an object within the coverage area and the driving path of your vehicle, an audible warning sounds. As your vehicle moves closer to the object, the rate of the tone increases.

PARKING AID INDICATORS



The system provides object distance indication through the information and entertainment display.

- As the distance to the object decreases, the indicator waves and the lines move toward the vehicle icon.
- If there is no object detected, the distance indicator lines are grey.

Visual indication remains on when your vehicle is in reverse (R). In any other gear, when you stop your vehicle, visual indication turns off after four seconds.

If the parking aids are not available, the side distance indicator lines do not display.

PARKING AIDS – TROUBLESHOOTING

PARKING AIDS – INFORMATION MESSAGES

If a fault is present in the parking aids, a warning message appears in the instrument cluster or the touchscreen.

Note: When the front or rear park aid presents a fault message, the side parking aid also disables.

Parking Aids

Message	Action
Check Front Park Aid	The system detects a condition that requires service. Have your vehicle checked as soon as possible.
Check Rear Park Aid	The system detects a condition that requires service. Have your vehicle checked as soon as possible.
Front Park Aid On Off	Displays the park aid status.
Rear Park Aid On Off	Displays the park aid status.

Rear View Camera (If Equipped)

WHAT IS THE REAR VIEW CAMERA

The rear view camera provides a video image of the area behind your vehicle when the transmission is in reverse (R).

REAR VIEW CAMERA PRECAUTIONS



WARNING: The rear view camera system is a reverse aid supplement device that still requires the driver to use it in conjunction with the interior and exterior mirrors for maximum coverage.



WARNING: Objects that are close to either corner of the bumper or under the bumper, might not be seen on the screen due to the limited coverage of the camera system.



WARNING: Reverse your vehicle slowly. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Use caution when the liftgate is ajar. If the liftgate is ajar, the camera is out of position and the video image could be incorrect. All guide lines disappear when the liftgate is ajar. Failure to follow this instruction could result in personal injury.



WARNING: Use caution when turning camera features on or off when the transmission is not in park (P). Make sure your vehicle is not moving.

Note: When towing, the camera only sees what you are towing. This might not provide adequate coverage and you might not see some objects. In some vehicles, the guide lines may disappear when you connect the trailer tow connector.

LOCATING THE REAR VIEW CAMERA

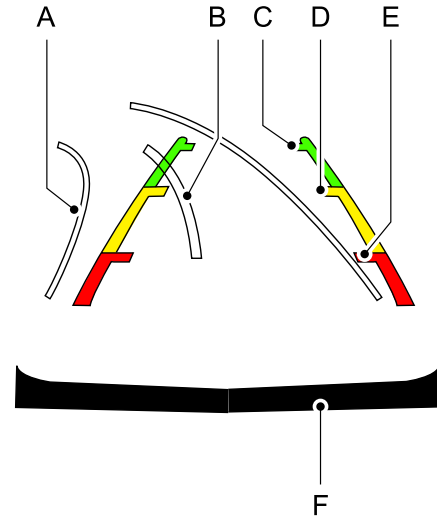
The rear view camera is on the liftgate. It provides a video image of the area behind your vehicle.

REAR VIEW CAMERA GUIDE LINES

Note: Active guide lines and fixed guide lines are only available when the transmission is in reverse (R).

Note: The centerline is only available if the active or fixed guide lines are on.

Rear View Camera (If Equipped)



- A. Active guide lines.
- B. Centerline.
- C. Fixed guide line: Green zone.

- D. Fixed guide line: Yellow zone.
- E. Fixed guide line: Red zone.
- F. Rear bumper.

Active guide lines only show with fixed guide lines. To use active guide lines, turn the steering wheel to point the guide lines toward an intended path. If the steering wheel position changes while reversing, your vehicle might deviate from the intended path.

The fixed and active guide lines fade in and out depending on the steering wheel position. The active guide lines do not display when the steering wheel position is straight.


Use caution while reversing. Objects in the red zone are closest to your vehicle and objects in the green zone are farther away. Objects get closer to your vehicle as they move from the green zone to the yellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of your vehicle.

REAR VIEW CAMERA OBJECT DISTANCE INDICATORS

The system provides an image of your vehicle and the sensor zones. The zones highlight green, yellow, and red when the parking aid sensors detect an object in the coverage area.

REAR VIEW CAMERA SETTINGS

ZOOMING THE REAR VIEW CAMERA IN AND OUT

 **WARNING:** When manual zoom is on, the full area behind your vehicle may not show. Be aware of your surroundings when using the manual zoom feature.

Selectable settings for this feature are zoom in (+) and zoom out (-). Press the symbol on the camera screen to change the view. The default setting is zoom off.

Rear View Camera (If Equipped)

This allows you to get a closer view of an object behind your vehicle. The zoomed image keeps the bumper in the image to provide a reference. The zoom is only active while the transmission is in reverse (R).

Note: *Manual zoom is only available when the transmission is in reverse (R).*

Note: *Only the centerline shows when you enable manual zoom.*

SWITCHING REAR VIEW CAMERA DELAY ON AND OFF

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Rear View Camera**.
4. Switch **Rear View Camera Delay** on or off.

When shifting the transmission out of reverse (R) and into any gear other than park (P), the camera image remains in the display until:

- Your vehicle speed reaches approximately 5 mph (8 km/h).
- You shift your vehicle into park (P).

360 Degree Camera (If Equipped)

WHAT IS THE 360 DEGREE CAMERA

The 360 degree camera system provides visibility around your vehicle in parking maneuvers such as:

- Centering in a parking space.
- Obstacles near your vehicle.
- Parallel parking.

The 360 degree camera system consists of front, side and rear cameras.

HOW DOES THE 360 DEGREE CAMERA WORK

The 360 Degree Camera system:

- Allows you to see what is directly in front of or behind your vehicle.
- Provides a cross traffic view in front of and behind your vehicle.
- Allows you to see a top-down view of the area outside your vehicle, including the blind spots and obstacles near your vehicle.

360 DEGREE CAMERA PRECAUTIONS



WARNING: The 360 degree camera system still requires the driver to use it in conjunction with looking out of the windows, and checking the interior and exterior mirrors for maximum coverage.



WARNING: Objects that are close to either corner of the bumper or under the bumper, might not be seen on the screen due to the limited coverage of the camera system.



WARNING: Use caution when turning camera features on or off when the transmission is not in park (P). Make sure your vehicle is not moving.



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Use caution when the liftgate is ajar. If the liftgate is ajar, the camera is out of position and the video image could be incorrect. All guide lines disappear when the liftgate is ajar. Failure to follow this instruction could result in personal injury.



WARNING: When manual zoom is on, the full area behind your vehicle may not show. Be aware of your surroundings when using the manual zoom feature.

360 Degree Camera (If Equipped)

360 DEGREE CAMERA LIMITATIONS

Note: Use caution if a door is ajar. The 360 degree camera could be out of position and the image could be incorrect.

LOCATING THE 360 DEGREE CAMERAS

Rear View Camera

The rear view camera is on the liftgate. It provides a video image of the area behind your vehicle.

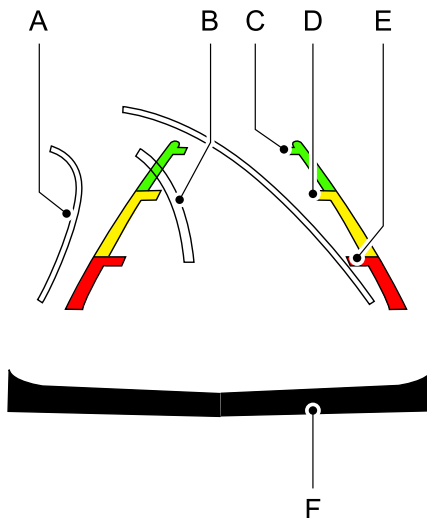
Front View Camera

The front view camera is in the grille. It provides a video image of the area in front of your vehicle.

Side View Camera

The side view camera is on the outside mirror. It provides a video image of the area on the sides of your vehicle to aid you when parking.

360 DEGREE CAMERA GUIDE LINES



A. Active guide lines.

B. Centerline.

C. Fixed guide line: Green zone.

D. Fixed guide line: Yellow zone.

E. Fixed guide line: Red zone.

F. Rear bumper.

Active guide lines only show with fixed guide lines. Turn the steering wheel to point the guide lines toward an intended path. If the steering wheel position changes when reversing, your vehicle could deviate from the intended path.

The fixed and active guide lines fade in and out depending on the steering wheel position. The active guide lines do not display when the steering wheel position is straight.

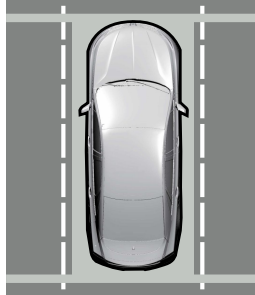
Objects in the red zone are closest to your vehicle and objects in the green zone are farther away. Objects get closer to your vehicle as they move from the green zone to the yellow or red zones. Use the side view mirrors and rear view mirror to get better coverage on both sides and rear of your vehicle.

360 Degree Camera (If Equipped)

Note: Active guide lines and fixed guide lines are only available when the transmission is in reverse (R).

Note: The centerline is only available if the active or fixed guide lines are on.

Keep Out Zone



E225016

The yellow dotted lines running parallel to your vehicle represent the keep out zone.

360 DEGREE CAMERA SETTINGS

SWITCHING THE 360 DEGREE CAMERA ON AND OFF



The 360 degree camera system button is on the instrument panel and allows you to toggle through different camera views. The front and rear cameras have multiple screens which consist of:

- Normal view
- Normal view with 360
- Split view

When in park (P), neutral (N) or drive (D), only the front images display when you press the button. When in reverse (R), only the rear images display when you press the button.

Note: The 360 degree camera system turns off when your vehicle is in motion at low speed, except when in reverse (R).

SWITCHING THE 360 DEGREE CAMERA VIEW



Press to access the different camera views.



Front normal view provides an image of what is directly in front of your vehicle.



Front split view provides an extended view of what is in front of your vehicle.



Normal + 360 degree view contains the normal camera view next to a 360 degree camera view.



Rear normal view provides an image of what is directly behind your vehicle.



Rear split view provides an extended view of what is behind your vehicle.



Zooms in on the image.

WHAT IS ACTIVE PARK ASSIST

Assists you with parking in and out of parking spaces.

HOW DOES ACTIVE PARK ASSIST WORK

Active park assist uses sensors to detect parking spaces. The system steers, accelerates, brakes and shifts gears as necessary to maneuver into or out of a parking space.

ACTIVE PARK ASSIST PRECAUTIONS



WARNING: You must remain in your vehicle when the system turns on. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required. Failure to take care may result in the loss of control of your vehicle, serious personal injury or death.



WARNING: The sensors may not detect objects in heavy rain or other conditions that cause interference.



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Do not use the system with accessories that extend beyond the front or rear of your vehicle, for example a trailer hitch or bike rack. The system is not able to make corrections for the additional length of the accessories.

SWITCHING ACTIVE PARK ASSIST ON AND OFF



Press the parking aid button, then press the active park assist icon on the touchscreen to bring up full screen notifications.

Press the soft keys on the touchscreen to switch between the parallel park in, perpendicular park in, or parallel park out parking modes.

Cancelling Active Park Assist

To cancel parking assistance at any time, shift out of neutral (N).

Pausing Active Park Assist

To pause parking assistance at any time, release the parking aid button.

If you open the passenger or rear doors, active park assist pauses.

To resume parking, press and hold the parking aid button again.

Active Park Assist (If Equipped)

ENTERING A PARALLEL PARKING SPACE

1. Press the parking aid button.

Note: *The system detects other vehicles and curbs to find a parking space.*

2. Press the active park assist icon on the touchscreen.
3. Use the turn signal lever to search for a parking space on the driver or passenger side of your vehicle.

Note: *If you do not use the turn signal lever, the system searches for a parking space on the passenger side of your vehicle.*

4. Drive your vehicle approximately 3 ft (1 m) away from and parallel to the other parked vehicles when searching for a parking space.

Note: *A tone sounds and a message appears in the information and entertainment display when active park assist finds a suitable parking space.*

5. Press and hold the brake pedal.

6. Release the steering wheel and shift into neutral (N).
7. Press and hold the parking aid button.
8. Release the brake pedal to allow your vehicle to park.

Note: *You can slow down your vehicle at any time by pressing the brake pedal.*

Note: *When parallel parking between objects, the system parks closer to the object in front of your vehicle to allow easier access to the luggage compartment.*

Note: *When parking is complete, your vehicle shifts into park (P).*

ENTERING A PERPENDICULAR PARKING SPACE

1. Press the parking aid button.

Note: *Active park assist does not recognize parking space lines and centers your vehicle between objects.*

2. Press the active park assist icon on the touchscreen.
3. Select perpendicular parking.

4. Use the turn signal lever to search for a parking space on the driver or passenger side of your vehicle.

Note: *If you do not use the turn signal lever, the system searches for a parking space on the passenger side of your vehicle.*

5. Drive your vehicle approximately 3 ft (1 m) away from and perpendicular to the other parked vehicles when searching for a parking space.

Note: *A tone sounds and a message appears in the information and entertainment display when active park assist finds a parking space.*

6. Press and hold the brake pedal.
7. Release the steering wheel and shift into neutral (N).
8. Press and hold the parking aid button.
9. Release the brake pedal to allow the vehicle to park.

Note: *Active park assist backs your vehicle into parking spaces.*

Active Park Assist (If Equipped)

Note: Active park assist aligns the front end of your vehicle with the lane side of the object next to it.

Note: When the system detects only one object, it allows enough distance to open the door on either side.

Note: You can slow down your vehicle at any time by pressing the brake pedal.

Note: When parking is complete, your vehicle shifts into park (P).

EXITING A PARKING SPACE

Active park assist only assists leaving parallel parking spaces.

1. Press the parking aid button.
2. Press the active park assist icon on the touchscreen.
3. Select parallel park exit.
4. Use the turn signal to choose the direction to exit the parking space.
5. Press and hold the brake pedal.
6. Release the steering wheel and shift into neutral (N).

7. Release the parking brake.
8. Press and hold the parking aid button.
9. Release the brake pedal to allow your vehicle to move.

Note: After active park assist drives your vehicle to a position where you can exit the parking space in a forward movement, a message appears instructing you to take full control of your vehicle.

10. Take control of your vehicle.

Note: You can slow down your vehicle at any time by pressing the brake pedal.

ACTIVE PARK ASSIST – TROUBLESHOOTING

ACTIVE PARK ASSIST – INFORMATION MESSAGES

Message	Action
Active Park Fault	The system requires service. Have your vehicle checked as soon as possible.

ACTIVE PARK ASSIST – FREQUENTLY ASKED QUESTIONS

Why does active park assist not operate correctly?

The system is unable to detect a vehicle, curb or object to park next to or in between. The system needs boundary objects to operate correctly.

Why does active park assist not search for a parking space?

You have switched traction control off.

Active Park Assist (If Equipped)

Why does active park assist not search for a parking space?

The transmission is in reverse (R). Your vehicle must be moving forward to be able to detect a parking space.

Why does active park assist not offer a parking space?

The sensors could be blocked. For example, snow, ice or large accumulations of dirt. Blocked sensors can affect how the system functions.

Why does active park assist not offer a parking space?

The sensors in the front or rear bumper could be damaged.

Why does active park assist not offer a parking space?

There is not enough room in the parking space for your vehicle to safely park.

Why does active park assist not offer a parking space?

There is not enough space for the parking maneuver on the opposite side of the parking space.

Why does active park assist not offer a parking space?

The parking space is more than 5 ft (1.5 m) or less than 2 ft (0.5 m) away from your vehicle.

Why does active park assist not offer a parking space?

Your vehicle's speed is greater than 22 mph (35 km/h) for parallel parking or greater than 19 mph (30 km/h) for perpendicular parking.

Why does active park assist not offer a parking space?

You recently disconnected or replaced the battery. After you reconnect the battery you must drive your vehicle on a straight road for a short period of time.

Why does active park assist not correctly position the vehicle into a parking space?

An irregular curb along the parking space prevents the system from correctly aligning your vehicle.

Why does active park assist not correctly position the vehicle into a parking space?

Vehicles or objects bordering the space could not be correctly parked.

Why does active park assist not correctly position the vehicle into a parking space?

Your vehicle stopped too far past the parking space.

Why does active park assist not correctly position the vehicle into a parking space?

The tires are not correctly installed or maintained. For example, using a spare tire, not inflated correctly, improper size, or of different sizes.

Why does active park assist not correctly position the vehicle into a parking space?

A repair or alteration changed the detection capabilities.

Why does active park assist not correctly position the vehicle into a parking space?

A parked vehicle has a high attachment. For example, a salt sprayer, snowplow or moving truck bed.

Active Park Assist (If Equipped)

Why does active park assist not correctly position the vehicle into a parking space?

The parking space length, or position of parked objects, changes after your vehicle passes the space.

Why does active park assist not correctly position the vehicle into a parking space?


The temperature around your vehicle quickly changes. For example, driving from a heated garage into a cold outside temperature, or after leaving a car wash.


Adaptive Cruise Control


HOW DOES ADAPTIVE CRUISE CONTROL WITH STOP AND GO WORK


Adaptive cruise control with stop and go uses radar and camera sensors to maintain a set gap between your vehicle and the vehicle in front of you while following it to a complete stop. Stop and go can also be set to follow a vehicle directly in front of you and adjust the set speed, while you are at a complete stop.


ADAPTIVE CRUISE CONTROL PRECAUTIONS


 **WARNING:** You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.


 **WARNING:** Do not use adaptive cruise control on winding roads, in heavy traffic or when the road surface is slippery. This could result in loss of vehicle control, serious injury or death.


 **WARNING:** Pay close attention to changing road conditions such as entering or leaving a highway, on roads with intersections or roundabouts, roads without visible lanes of travel, roads that are unpaved, or steep slopes. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** The system is not a crash warning or avoidance system.


 **WARNING:** Do not use the system when towing a trailer that has aftermarket electronic trailer brake controls. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** Do not use tire sizes other than those recommended because this can affect the normal operation of the system. Failure to do so may result in a loss of vehicle control, which could result in serious injury.

 **WARNING:** Do not use the system with a snow plow blade installed.

 **WARNING:** Do not use the system in poor visibility, for example fog, heavy rain, spray or snow.

When Following a Vehicle

 **WARNING:** When following a vehicle that is braking, your vehicle does not always decelerate quickly enough to avoid a crash without driver intervention. Apply the brakes when necessary. Failure to follow this instruction could result in personal injury or death.

Adaptive Cruise Control

Hilly Condition Usage

Select a lower gear when the system is active in situations such as prolonged downhill driving on steep slopes, for example in mountainous areas.

ADAPTIVE CRUISE CONTROL LIMITATIONS

Sensor Limitations

WARNING: On rare occasions, detection issues can occur due to the road infrastructures, for example bridges, tunnels and safety barriers. In these cases, the system may brake late or unexpectedly. At all times, you are responsible for controlling your vehicle, supervising the system and intervening, if required.

WARNING: If the system malfunctions, have your vehicle checked as soon as possible.

WARNING: Large contrasts in outside lighting can limit sensor performance.

WARNING: The system only warns of vehicles detected by the radar sensor. In some cases there may be no warning or a delayed warning. Apply the brakes when necessary. Failure to follow this instruction could result in personal injury or death.

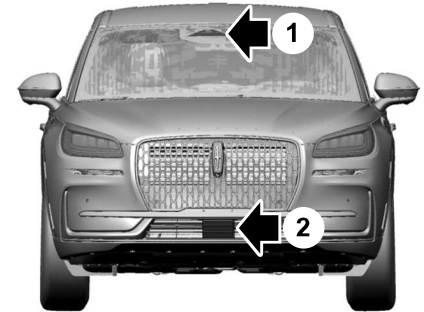
WARNING: The system may not detect stationary or slow moving vehicles below 6 mph (10 km/h).

WARNING: The system does not detect pedestrians or objects in the road.

WARNING: The system does not detect oncoming vehicles in the same lane.

WARNING: The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.

WARNING: The sensor may incorrectly track lane markings as other structures or objects. This can result in a false or missed warning.



1. Camera.
2. Radar sensor.

The camera is on the windshield behind the interior mirror.

Adaptive Cruise Control

The radar sensor is in the lower grille.

Note: *You cannot see the sensor. It is behind a fascia panel.*

Note: *Keep the front of your vehicle free of dirt, metal badges or objects. Vehicle front protectors, aftermarket lights, additional paint or plastic coatings could also degrade sensor performance.*

A message displays if something obstructs the camera or the sensor. When something blocks the sensor, the system cannot detect a vehicle ahead and does not function. See

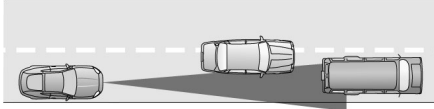
Adaptive Cruise Control – Information Messages (page 325).

The radar sensor has a limited field of view. It may not detect vehicles at all or detect a vehicle later than expected in some situations. The lead vehicle image does not illuminate if the system does not detect a vehicle in front of you.

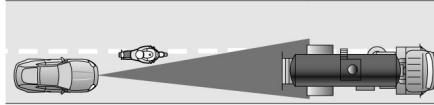
Adaptive Cruise Control

Detection Issues Can Occur:

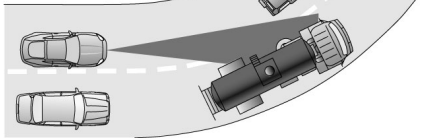
A



B



C



- A** When driving on a different line than the vehicle in front.

- B** With vehicles that edge into your lane. The system can only detect these vehicles once they move fully into your lane.
- C** There may be issues with the detection of vehicles in front when driving into and coming out of a bend or curve in the road.

In these cases, the system may brake late or unexpectedly.

If something hits the front end of your vehicle or damage occurs, the radar-sensing zone may change. This could cause missed or false vehicle detection.

Optimal system performance requires a clear view of the road by the windshield camera.

Optimal performance may not occur if:

- The camera is blocked.
- There is poor visibility or lighting conditions.
- There are bad weather conditions.

SWITCHING ADAPTIVE CRUISE CONTROL ON AND OFF

The cruise controls are on the steering wheel.

Switching Adaptive Cruise Control On



Press the button to activate the system. When the system activates, the set speed is equal to whichever is greater, the current vehicle speed, or 15 mph when in imperial units or 20 km/h when in metric units. If the speed is too low, or other conditions are not correct for adaptive cruise control activation, the system enters standby mode. When you are below 15 mph when in imperial units or 20 km/h when in metric units, adaptive cruise control does not activate unless you are following another vehicle.

The indicator, current gap setting and set speed appear in the instrument cluster display.

Adaptive Cruise Control

Switching Adaptive Cruise Control Off



Press the button when the system is in standby mode or switch the ignition off.

Note: When you switch the system off, the set speed clears.

ADAPTIVE CRUISE CONTROL AUTOMATIC CANCELLATION

The system may cancel if:

- The tires lose traction.
- You apply the parking brake.

The system may cancel and set the parking brake if:

- You unbuckle the seatbelt and open the driver door after adaptive cruise control stops your vehicle.
- Adaptive cruise control holds your vehicle at a stop continuously for more than three minutes.

The system may deactivate or prevent activating when requested if:

- The vehicle has a blocked sensor.
- The brake temperature is too high.
- There is a failure in the system or a related system.

SETTING THE ADAPTIVE CRUISE CONTROL SPEED

Drive to the speed you prefer.

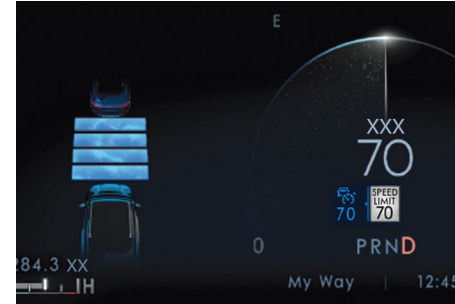
SET+

Press either button to set the current speed.

SET-

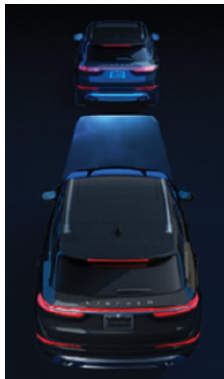
Take your foot off the accelerator pedal.

The indicator, current gap setting and set speed appear in the instrument cluster display when initially activating adaptive cruise control.



After a few seconds, the graphic in the instrument cluster display changes to show that adaptive cruise control is active.

Adaptive Cruise Control



A vehicle image illuminates if there is a vehicle detected in front of you.

Note: When adaptive cruise control is active, the speedometer can vary slightly from the set speed displayed in the instrument cluster display.

Setting the Adaptive Cruise Speed from a Complete Stop

SET+

Press the SET+ or SET- buttons while keeping the brake pedal fully depressed.

SET-

The set speed adjusts to 20 km/h when in metric units or 15 mph when in imperial units.

The indicator, current gap setting and set speed appear in the instrument cluster display.

Note: The system activates from a complete stop only when it detects a lead vehicle in close proximity.

Manually Changing the Set Speed

SET+

Press the button to increase the set speed in small increments. Press and hold the button to increase the set speed in large increments. Release the button when the set speed is equal to the desired speed.

SET-

Press the button to decrease the set speed in small increments. Press and hold the button to decrease the set speed in large increments. Release the button when the set speed is equal to the desired speed.

You can also press the accelerator or brake pedal until you reach the speed you prefer. Press either button to select the current speed as the set speed.

The system could apply the brakes to slow the vehicle to the new set speed. The set speed continuously displays in the instrument cluster display when the system is active.

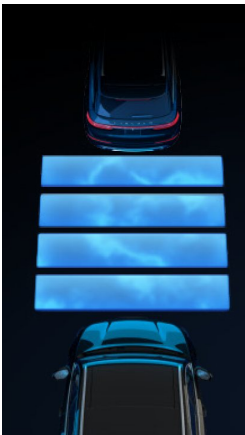
SETTING THE ADAPTIVE CRUISE CONTROL GAP

You can decrease or increase the distance between your vehicle and the vehicle in front by pressing the gap control.



Press the button to cycle through the four gap settings.

Adaptive Cruise Control



The selected gap appears in the instrument cluster display as shown by the bars in the image.

Note: *The gap setting is time dependent and therefore, the distance adjusts with your vehicle speed.*

Note: *It is your responsibility to select a gap appropriate to the driving conditions.*

Adaptive Cruise Control Gap Settings

Graphic Display, Bars Indicated Between Vehicles	Gap Distance	Dynamic Behavior
1	Closest	Sport
2	Close	Normal
3	Medium	Normal
4	Far	Comfort

Each time you switch the system on, it selects the last chosen gap setting.

Following a Vehicle

When a vehicle ahead of you enters the same lane or a slower vehicle is ahead in the same lane, the vehicle speed adjusts to maintain the gap setting.

Note: *When you are following a vehicle and you switch on a turn signal lamp, adaptive cruise control may provide a small, temporary acceleration to help you pass.*

Your vehicle maintains a consistent gap from the vehicle ahead until:

- The vehicle in front of you accelerates to a speed above the set speed.
- The vehicle in front of you moves out of the lane you are in.
- You set a new gap distance.

The system applies the brakes to slow down your vehicle to maintain a safe gap distance from the vehicle in front of you. The system only applies limited braking. You can override the system by applying the brakes.

Note: *The brakes may emit noise when applied by the system.*

If the system determines that its maximum braking level is not sufficient, an audible warning sounds, a message appears in the instrument cluster display and an indicator flashes when the system continues to brake. Take immediate action.

Adaptive Cruise Control

CANCELING THE SET SPEED



Press the button or tap the brake pedal.

The set speed does not erase.

RESUMING THE SET SPEED



Press the button.

The vehicle speed returns to the previously set speed and gap setting. The set speed displays continuously in the instrument cluster display when the system is active.

Note: *Only use resume if you are aware of the set speed and intend to return to it.*

Resuming the Set Speed from a Complete Stop (If Equipped)

If your vehicle follows a vehicle to a complete stop and remains stationary for less than a few seconds, your vehicle accelerates from a stationary position to follow the vehicle ahead.

If your vehicle follows a vehicle to a complete stop and remains stationary for more than a few seconds, an indicator and message displays.



Message	Action
Stopped	Cruise control does not resume automatically when this display is active.
Press button to resume	If the lead vehicle begins to move, you are prompted to press the resume button.

Adaptive Cruise Control

Message	Action
	Press and release the button or use the accelerator pedal to resume following the lead vehicle.
Auto-Resume	Displays when on a limited access highway after following a vehicle to a complete stop. In this situation, your vehicle resumes following the lead vehicle without a button press or pressing the accelerator pedal. The system can remain in auto-resume state for approximately 30 seconds, after which it no longer automatically resumes.

OVERRIDING THE SET SPEED



WARNING: If you override the system by pressing the accelerator pedal, it does not automatically apply the brakes to maintain a gap from any vehicle ahead.

When you press the accelerator pedal, you override the set speed and gap distance.

Use the accelerator pedal to intentionally exceed the set speed limit.

When you override the system, the indicator remains blue, the set speed is dimmed and the lead vehicle icon does not appear in the instrument cluster display.

The system resumes operation when you release the accelerator pedal. The vehicle speed decreases to the set speed, or a lower speed if following a slower vehicle.

ADAPTIVE CRUISE CONTROL INDICATORS



Illuminates when you switch adaptive cruise control on. The color of the indicator changes to indicate the system status.

White indicates the system is on but inactive.

Blue indicates that you set the speed and the system is active.

SWITCHING FROM ADAPTIVE CRUISE CONTROL TO CRUISE CONTROL



WARNING: Normal cruise control will not brake when your vehicle is approaching slower vehicles. Always be aware of which mode you have selected and apply the brakes when necessary.

Adaptive Cruise Control

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press **Normal Cruise Control**.



The cruise control indicator replaces the adaptive cruise control indicator if you select normal cruise control. The gap setting does not display, and the system does not respond to lead vehicles. Automatic braking remains active to maintain set speed. The system remembers the last setting when you start your vehicle.

LANE CENTERING

HOW DOES LANE CENTERING WORK

Adaptive cruise control with lane centering uses the vehicle's front radar sensor and front windshield camera sensor, together with the steering sensor to operate.

Using these sensors, the system applies continuous steering assistance towards driving in the middle of the lane you choose on highway roads.

Note: *The gap setting for adaptive cruise control with lane centering, operates in the same way as normal adaptive cruise control.*

LANE CENTERING PRECAUTIONS



WARNING: Do not use the system when towing a trailer. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Do not use the system if any changes or modifications to the steering wheel have been made. Any changes or modifications to the steering wheel could affect the functionality or performance of the system. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

Adaptive cruise control precautions apply to lane centering unless stated otherwise or contradicted by a lane centering precaution. See **Adaptive Cruise Control Precautions** (page 310).

LANE CENTERING REQUIREMENTS

You must keep your hands on the steering wheel at all times.

Lane centering only activates when all of the following occur:

- Adaptive cruise control with lane centering is enabled in your information and entertainment screen. See **Switching Lane Centering On and Off** (page 320).
- You have adaptive cruise control with stop and go enabled and set.
- The steering sensor detects your hands on the steering wheel.
- The system detects both lane markings when driving on a straight road.
- Your vehicle is initially centered in the lane between two visible line markings.

Adaptive Cruise Control

Note: *If the system does not detect valid lane line markings, the system will remain in standby until valid line markings are available.*

LANE CENTERING LIMITATIONS

Adaptive cruise control limitations apply to lane centering unless stated otherwise or contradicted by a lane centering limitation. See **Adaptive Cruise Control Limitations** (page 311).

Lane centering may not correctly operate in any of the following conditions:

- The lane width is too narrow or wide.
- The curve in the road is too small.
- The system does not detect the minimum required lane markings or when lanes merge or split.
- When the required steering effort to maintain lane center exceeds the lane centering system limit.
- When driving in areas that are under construction or when road work is in progress.

- If the front windshield camera and/or the front radar are blocked.
- When using a spare tire.
- Inclement weather conditions including, but not limited to, high wind, heavy rain, and fog.
- Driving into direct sunlight.
- When modification to the steering system has been made, including alterations to the steering wheel.
- When towing a trailer.

See **Lane Centering Precautions** (page 319).

Note: *The system steering assistance is limited and may not have sufficient effort for all driving situations and/or conditions, such as driving through tight curves or driving through curves at high speeds.*

Note: *In exceptional conditions, the system may deviate from the lane center.*

SWITCHING LANE CENTERING ON AND OFF

You must keep your hands on the steering wheel at all times.

The controls are on the steering wheel.



Press the button.

The indicator appears in the instrument cluster. When the lane centering system is on, the color of the indicator changes to indicate the system status.

You can override the system at any time by steering your vehicle.

Note: *The lane centering requirements must be met before you can enable the feature. See **Lane Centering Requirements** (page 319).*

Enabling and Disabling Lane Centering

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press **Adaptive Cruise Control**.
5. Switch Lane Centering on or off.

Adaptive Cruise Control

LANE CENTERING ALERTS

You must keep your hands on the steering wheel at all times.


When the system is active and detects no steering activity for a period of time, the system alerts you to put your hands on the steering wheel. If you do not react appropriately to the warnings the adaptive cruise control with lane centering system cancels and slows your vehicle down to idle speeds while maintaining steering control. See **Lane Centering Automatic Cancellation** (page 321).

The system also alerts you if your vehicle crosses lane line markings without detected steering activity.

Note: *The system could detect a light grip or light touch on the steering wheel as hands-off driving.*

LANE CENTERING AUTOMATIC CANCELLATION

When an external condition cancels the system, for example, no lane line markings available, a tone sounds and a message appears in the instrument cluster display.

 If your vehicle starts to slow down after system cancellation, you must take full control of the vehicle. To re-enable adaptive cruise control with lane centering after cancellation, press and release the resume button.

Automatic cancellation can also occur if:

- The lane becomes too wide or narrow.
- The system cannot detect valid lane markings.
- Lane markings cross over one another.
- The curve of the road is too sharp.

Note: *If your vehicle slows down due to your inactivity twice within a key cycle, the system disables. To reset the system, when the vehicle is stationary, return the gear selector to park (P) and turn the vehicle off. Then, restart the vehicle with your foot on the brake pedal.*

LANE CENTERING MANUAL CANCELLATION

When you perform the following actions, adaptive cruise control with lane centering will cancel:

- The brake pedal is pressed.
- Adaptive cruise control button is switched off on the steering wheel.

The lane centering system is momentarily suppressed when either of the following actions are performed:

- Turn signal indicator is latched or tapped.
- You steer the vehicle out of lane.

Adaptive Cruise Control

LANE CENTERING INDICATORS



Illuminates when you switch lane centering on. The color of the indicator changes to indicate the system status.

Gray status indicates the system is on but in standby mode.

Green status indicates the system is enabled and applying steering assistance to keep the vehicle in the center of the lane.

Amber status with an audible tone, that then changes to gray status, indicates a system automatic cancellation.

PREDICTIVE SPEED ASSIST

HOW DOES PREDICTIVE SPEED ASSIST WORK

Predictive Speed Assist works with adaptive cruise control and adjusts the vehicle speed to the road geometry and to the speed limit detected by the speed sign recognition system. As the system identifies curves and highway exits, the vehicle speed temporarily decreases ahead of and during the changing road geometry. When passing new speed signs, the set speed updates. See **Predictive Speed Assist Precautions** (page 322).

There are limitations that affect the accuracy of the speed sign recognition system and its ability to determine the current speed limit. Predictive speed assist and its ability to determine the current speed limit shares these limitations. See **Speed Sign Recognition** (page 374).

Note: *The adaptive cruise control gap setting operates normally when the feature is enabled.*

PREDICTIVE SPEED ASSIST PRECAUTIONS



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Pay close attention to changing road conditions. You may need to override the system by pressing the brake or accelerator pedal if the adjusted speed becomes higher or lower than necessary.



WARNING: The system only provides limited braking. Your vehicle may not always decelerate quickly enough to avoid a crash without driver intervention. Apply the brakes when necessary.

Adaptive Cruise Control



WARNING: The system does not activate the turn signal.

Adaptive cruise control precautions apply to predictive speed assist unless stated otherwise or contradicted by a predictive speed assist precaution. See **Adaptive Cruise Control Precautions** (page 310).

The system only applies limited braking. You can override the system with the accelerator pedal or cancel the system by applying the brakes.

The system may adapt to various factors such as time of day, lane width. This could influence speed adjustments and accelerations.

The system may adapt to various drive modes. See **Drive Mode Control** (page 338). This could influence speed adjustments and accelerations.

Note: *The system does not activate the turn signal automatically.*

PREDICTIVE SPEED ASSIST LIMITATIONS



WARNING: The system may not always adjust vehicle speed in certain road or weather conditions such as crossing traffic, yield or stop signs, right of way, traffic lights, speed bumps, rain, snow, fog. You must always apply the brake or accelerator pedal when necessary.

The road geometry and speed limit information provided by the navigation map data could be inaccurate or out of date.

The system may not detect and read speed limit signs with conditional information, for example, when a sign is flashing, during specific time ranges, or when children are present.

Note: *The system does not set the vehicle speed to speed limits shown with a supplementary traffic sign.*

Under certain conditions, the system may not adjust the vehicle speed until after your vehicle passes the speed limit.

Detection of road geometry operates only where related information is available. Road geometry information may not be available in some areas.

SWITCHING PREDICTIVE SPEED ASSIST MODE ON AND OFF

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press **Adaptive Cruise Control**.
5. Switch **Predictive Speed Assist** on or off.

ADJUSTING THE SET SPEED TOLERANCE

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press **Adaptive Cruise Control**.
5. Switch **Predictive Speed Assist** on.
6. Press **Tolerance**.
7. Adjust the slider to set the tolerance.

Adaptive Cruise Control

Note: You can set tolerance for vehicle speed adjustment based on speed sign recognition only.

PREDICTIVE SPEED ASSIST ALERTS

If the speed sign recognition system detects a speed limit below the minimum adaptive cruise control set speed, a tone sounds and the system returns to standby mode.

PREDICTIVE SPEED ASSIST INDICATORS

A blue marker around the speed sign and a blue arrow next to the set speed indicates that the system is active.

Speed sign indicator



When the system detects a new speed sign, a gray indicator appears above the set speed while the system adjusts the vehicle speed to the speed limit. When the speed limit is reached, the set speed updates and the gray indicator disappears.

Road geometry indicator

When the system detects a curve or highway exit, the vehicle starts to decelerate, and the indicator appears and changes color.

Road geometry indicator symbols



Left curve.



Right curve.

Adaptive Cruise Control

PREDICTIVE SPEED ASSIST – TROUBLESHOOTING

PREDICTIVE SPEED ASSIST – INFORMATION MESSAGES

Message	Action
Adaptive Cruise Control Speed Sign Recognition Not Available	Navigation system based speed limit information is not available. If the message continues to appear, have your vehicle checked as soon as possible.
Driver Resume Control	The system is going to cancel and you must take control.

ADAPTIVE CRUISE CONTROL – TROUBLESHOOTING

ADAPTIVE CRUISE CONTROL – INFORMATION MESSAGES - VEHICLES WITH: LANE CENTERING

Note: *Depending on your vehicle options and instrument cluster type, some messages can appear different or not at all.*

Adaptive Cruise Control

Message	Action
Keep Hands on Steering Wheel	You must return your hands to the steering wheel and provide steering input to cancel the message.
Lane Centering Assist Not Available	Lane centering is currently not available, due to conditions that prevent the system from becoming active. To reset the system, when the vehicle is stationary, return the gear selector to park (P) and turn the vehicle off. Then, restart the vehicle with your foot on the brake pedal.
Resume Control	Adaptive cruise control with lane centering is about to cancel. You must immediately take full control of the vehicle.
Press Accelerator Pedal to Resume	Adaptive cruise control with lane centering is in standby mode. When safe to do so, you can resume adaptive cruise control with lane centering by applying pressure on the accelerator pedal. Alternatively, you can also re-enable adaptive cruise control with lane centering by pressing the resume button on the steering wheel.

ADAPTIVE CRUISE CONTROL – INFORMATION MESSAGES - VEHICLES WITH: STOP AND GO

Note: Depending on your vehicle options and instrument cluster type, not all messages display or are available.

Note: The system could abbreviate or shorten certain messages depending upon which cluster type you have.

Adaptive Cruise Control

Message	Action
Adaptive Cruise Malfunction	A malfunction is preventing the adaptive cruise from engaging.
Front Sensor Not Aligned	Contact an authorized dealer to have the radar checked for proper coverage and operation.
Adaptive Cruise Not Available	Conditions exist preventing the system from being available.
Adaptive Cruise Not Available Sensor Blocked See Manual	You have a blocked radar because of poor radar visibility due to inclement weather or ice, mud, or water in front of the radar. You can typically clean the sensor to resolve this. Due to the nature of radar technology, it is possible to get a blockage warning with no actual block. This happens, for example, when driving in sparse rural or desert environments. A false blocked condition either self clears, or clears after you restart your vehicle.
Normal Cruise Active Adaptive Braking Off	You have selected normal cruise control. The system does not brake or react to traffic.
Adaptive Cruise - Driver Resume Control	Displays when the adaptive cruise control is going to cancel and you must take control.
Adaptive Cruise Speed Too Low to Activate	Displays when the vehicle speed is too slow to activate the adaptive cruise control and there is no lead vehicle in range.

ADAPTIVE CRUISE CONTROL VIDEOS

[*Adaptive Cruise Control with Stop-and-Go
and Lane Centering Assist Video Link*](#)

WHAT IS ACTIVEGLIDE™

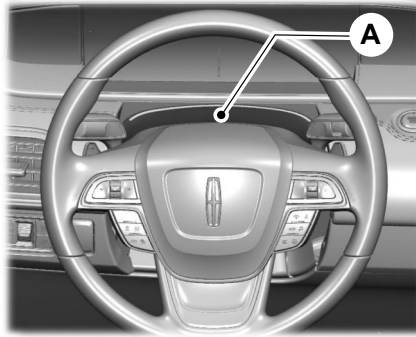
ActiveGlide keeps your vehicle centered in the lane and offers a hands-free driving mode in certain situations when using adaptive cruise control.

HOW DOES ACTIVEGLIDE™ WORK

ActiveGlide uses cameras to monitor your vehicle position within a lane and applies steering support to keep your vehicle centered in the lane.

Using the cameras and location information, ActiveGlide allows you to remove your hands from the steering wheel and offers a hands-free driving mode in certain areas.

When active, ActiveGlide uses a driver facing camera and infrared lighting to monitor your eyes and head position to detect if you are distracted. If the system determines you are distracted, it alerts you to return your eyes to the road.



A Lighting and camera area.

Note: When ActiveGlide is active, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, camera data may record through the vehicle event data recorder. See **Event Data** (page 28).

Note: No data records under normal driving conditions.

ACTIVEGLIDE™ PRECAUTIONS

WARNING: You are responsible for keeping your eyes on the road at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

WARNING: Do not use the system when towing a trailer. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Obstructions to the driver facing camera or infrared lighting could prevent the system from properly operating. Keep the camera and lighting areas free from obstruction. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Do not use the system if any changes or modifications to the steering wheel have been made. Any changes or modifications to the steering wheel could affect the functionality or performance of the system. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: The system may not function if the sensor is blocked.



WARNING: Pay close attention to changing road conditions such as entering or leaving a highway, on roads with intersections or roundabouts, roads without visible lanes of travel, roads that are winding, slippery, unpaved, or steep slopes.



WARNING: The system is not a crash warning or avoidance system.



WARNING: Large contrasts in outside lighting can limit sensor performance.



WARNING: The system attempts to keep your vehicle in the center of the lane as well as maintain speed and gap control. The system may not be able to perform these tasks in all situations. Do not use the system in complex or uncertain driving conditions. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Your vehicle could drift out of the lane of travel. Always be prepared to manually steer your vehicle. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: The system will not operate if the sensor cannot track the road lane markings.

ACTIVEGLIDE™ REQUIREMENTS

ActiveGlide only activates when all of the following occur:

- ActiveGlide is enabled in your touchscreen. See **ActiveGlide™ Settings** (page 330).
- Adaptive cruise control is on.
- The system detects both lane markings.
- Your hands are on the steering wheel.
- Your eyes are on the road.

Note: The system must meet certain location requirements for the hands-free mode of ActiveGlide to work.

Note: The system may require software updates for hands-free mode. See **Vehicle Software Updates** (page 554).

ACTIVEGLIDE™ LIMITATIONS

Any of the following conditions could result in ActiveGlide not operating correctly:

- You do not have your vehicle centered in the lane.
- The lane is too narrow or too wide.
- The system does not detect at least one lane marking or when lanes merge or split.
- You have limited steering input.
- Using the system in areas under construction.
- If you make any aftermarket modifications to the steering system.
- When using a spare tire.

The driver-facing camera may not operate correctly due to any of the following:

- If you have a pre-existing eye condition, such as an eye misalignment, or have had eye surgery.
- You cover your facial features by a mask, hat or other items.
- The lighting conditions change significantly.
- You are not in the field of view of the camera.
- You position or tilt yourself to one side.
- You are moving around extensively.
- You are wearing glasses or sunglasses that are too dark or reflective.

Note: The system has limited steering assistance and may not be sufficient for all driving situations.

Note: In exceptional conditions, such as inclement weather or direct sunlight, the system could deviate from the center line.

Note: The information provided by the navigation map data could be inaccurate or out of date.

ACTIVEGLIDE™ SETTINGS

Enabling ActiveGlide

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press **Adaptive Cruise Control**.
5. Press **Lane Centering with Hands-Free**.

Enabling Activation Prompts

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press **Adaptive Cruise Control**.
5. Press **Activation Prompts**.

SWITCHING ACTIVEGLIDE™ ON AND OFF

Switching ActiveGlide On

The controls are on the steering wheel.

Using Activation Prompts



When the prompt appears, press the button to switch ActiveGlide on.

The indicator appears in the instrument cluster. When the system is on, the color of the indicator changes to indicate the system status.

Note: You must enable activation prompts in the touchscreen.

Using Steering Wheel Controls



Using the adaptive cruise control and lateral support buttons, make sure both systems are active. ActiveGlide activates.



Switching ActiveGlide Off



Press either the lateral support or adaptive cruise control button when system is active or in standby mode.



ActiveGlide turns off through each ignition cycle.

ACTIVEGLIDE™ ALERTS

When ActiveGlide is providing hands-on driving or transitioning to hands-on driving from hands-free driving and detects no steering activity for a certain period of time, the system alerts you with a message in the instrument cluster to put your hands on the steering wheel. After the first alert, the system alerts you with a message in the instrument cluster and an audible warning.

When ActiveGlide is providing hands-on or hands-free driving and detects you are not looking at the road for a certain period of time, the system alerts you to return your eyes to the road. Depending on where you are looking, the alert can be a message in the instrument cluster and an audible warning.

If you do not react to the warnings, ActiveGlide cancels, quickly activates and releases the brakes, and slows your vehicle down to low speeds while maintaining steering control.

If your vehicle slows down and you resume control, a message appears to prompt you to press the accelerator pedal to allow the system to resume.

Note: If the system detects repeated inactivity, it disables until the next key cycle.

ACTIVEGLIDE™ AUTOMATIC CANCELLATION

When an external condition cancels ActiveGlide, for example, no lane markings available, a tone sounds and a message appears in the instrument cluster.

RESUME

If your vehicle starts to slow down, you must take control of steering and press and release the button to reactivate ActiveGlide.

System cancellation can also occur if:

- The lane becomes too narrow.
- The system cannot detect valid lane markings.

- Lane markings cross.
- Your eyes are not on the road or your hands are not the steering wheel.

If you have your hands on the steering wheel and your eyes are on the road when the feature is active and a cancellation occurs, the system sounds a tone and displays a cancelled graphic in the instrument cluster.

If you are not paying attention to the road or your hands are not on the steering wheel and a cancellation occurs, the system displays a message and a tone sounds until you resume control. If you do not resume control in time, ActiveGlide quickly activates and releases the brakes, and slows your vehicle down to low speeds while maintaining steering control. If your vehicle slows down and you resume control, a message appears to prompt you to press the accelerator pedal to allow the system to resume.

Note: *The system disables until the next key cycle if it detects repeated inactivity.*

ACTIVEGLIDE™ INDICATORS



When on, the color of the indicator changes to indicate the status.

Gray indicates ActiveGlide is on but inactive.

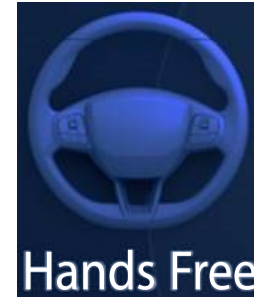
Blue indicates ActiveGlide is active.

Hands-On Driving Support Available



When this indicator is present, you must keep your hands on the steering wheel.

Hands-Free Driving Support Available



A graphic in the instrument cluster of a steering wheel without hands indicates the hands-free driving mode is available.

When this indicator is present, you can remove your hands from the steering wheel.

LANE CHANGE ASSIST

HOW DOES LANE CHANGE ASSIST WORK



Lane change assist can automatically perform a single lane change when you request the lane change using the turn signal lever. This feature is available down to 40 mph (65 km/h).



WARNING: Do not use the lane change assist system as a replacement for using the interior and exterior mirrors or looking over your shoulder before changing lanes. The lane change assist system is not a replacement for careful driving.

1. Make sure the lane you are requesting is clear of traffic or obstacles.
2. Tap or latch the lever in the direction of your planned lane change.
3. Once the lane change is complete, move the turn signal lever back to the middle position if necessary.

Note: When using lane change assist you can tap or latch the lever.

Lane Change Suggestion

If you are approaching or have been following a slower moving vehicle, the system may suggest a lane change to pass that vehicle using an available passing lane.

LANE CHANGE ASSIST LIMITATIONS

Lane change assist will not perform the requested maneuver if traffic is identified in the selected lane.

SWITCHING LANE CHANGE ASSIST ON AND OFF

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.
4. Press Lane Change Assist to toggle the system on and off.

LANE CHANGE ASSIST CANCELLATION

To cancel lane change assist, manually steer your vehicle or return the turn signal lever to the middle position.

LANE CHANGE ASSIST - TROUBLESHOOTING

LANE CHANGE ASSIST - INFORMATION MESSAGES

Message	Details
Lane is busy	The lane you have selected to enter has a vehicle or obstacle.
No lane detected	A lane is not recognized or available to perform the requested maneuver.
Driver canceled	The driver has manually overridden the lane change.
Changing lanes	The requested lane change is being performed.
Lane change suggested	If desired, press the turn signal lever in the direction indicated by the lane change suggestion to initiate the lane change.

Note: *The instrument cluster display may abbreviate or shorten certain messages.*

IN-LANE REPOSITIONING

HOW DOES IN-LANE REPOSITIONING WORK

ActiveGlide with in-lane repositioning uses the vehicle's front and corner radar sensors together with the front windshield camera sensor to operate.

Using these sensors, the system automatically adjusts your vehicle's position in the lane based on the current driving situation.

Note: *In-lane repositioning is active only when ActiveGlide is enabled while traveling on divided highways and when any of the following situations occur:*

ActiveGlide™ (If Equipped)

- Passing or being passed by adjacent lane vehicles in close proximity.
- Driving in a curve.
- Driving in outer lanes.

Note: In certain situations, the vehicle may bias without showing the indicators.

Note: Keep the front of your vehicle free of dirt, metal badges or objects. Vehicle front protectors, aftermarket lights, additional paint or plastic coatings could also degrade sensor performance.

Note: The radar sensor has a limited field of view. It may not detect vehicles at all or detect a vehicle later than expected in some situations.

SWITCHING IN-LANE REPOSITIONING ON AND OFF

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Cruise Control**.

4. Press **Adaptive Cruise Control**.
5. Press **Lane Centering with Hands-Free**.
6. Press In-Lane Repositioning to toggle the system on or off.

IN-LANE REPOSITIONING INDICATORS



Biased towards right-hand side of the lane.



Biased towards left-hand side of the lane.

ACTIVEGLIDE™ – TROUBLESHOOTING

ACTIVEGLIDE™ – INFORMATION MESSAGES

Depending on your vehicle options and instrument cluster type, not all messages display or are available.

Message	Details
Keep Hands on Steering Wheel	Make sure you return your hands to the steering wheel and provide steering input.
Resume Control	The system is going to cancel and you must take control.
Watch the Road	Return your attention to the road.
ActiveGlide not available	Conditions exist preventing the system from being available. If the message continues to display, have the system checked as soon as possible.
Press Accelerator Pedal to Resume	Press the accelerator pedal and follow the prompts.
Driver monitor camera cannot detect face See manual	Make sure your facial features are visible and in the field of view of the driver facing camera. It is possible that the steering column is positioned too high or low for the driver facing camera to see you, adjust the steering column or seat so your face is in the field of view.
Driver monitor camera is blocked See manual	Make sure your hands, arms or other objects are not obscuring the camera.

ActiveGlide™ (If Equipped)

Message	Details
Driver monitor camera fault See manual	Conditions exist preventing the system from being available. If the message continues to display, have the system checked as soon as possible.
ActiveGlide On Watch the road Be prepared to resume control	ActiveGlide is active, keep your attention on the road.
ActiveGlide available Press {ICON} to activate	The system is in standby mode, press the button on the steering wheel to activate.

Note: *The instrument cluster display may abbreviate or shorten certain messages depending on which cluster type you have.*

ACTIVEGLIDE™ VIDEOS

[Lincoln ActiveGlide Driver-Assist Technology](#)

Drive Mode Control

WHAT IS DRIVE MODE CONTROL

The system delivers a driving experience through a suite of sophisticated electronic vehicle systems. These systems optimize steering, handling and powertrain response. This provides a single location to control multiple systems performance settings.

Changing the drive mode automatically changes the functionality of the following systems:

- Electronically power-assisted steering system adjusts steering effort and feel based on the mode you select. See **How Does Electric Power Steering Work** (page 291).
- Electronic stability control and traction control maintains your vehicle control in adverse conditions or high performance driving. See **Stability Control** (page 288).
- Electronic throttle control enhances the powertrain response to your driving inputs.

- Transmission controls optimize with shift schedules tuned to each mode.
- AWD settings become optimized and tuned to each mode.

The system automatically tailors your vehicle configuration for each mode you select.

Note: *Not all settings, or modes, may be available.*

Note: *The system has diagnostic checks that continuously monitor the system for proper operation. If a mode is unavailable due to a system fault, the mode defaults to Normal.*

SELECTING A DRIVE MODE

Note: *Drive mode changes may not be available when the ignition is off.*



Rotate the drive mode dial on the center console to change the drive mode.

DRIVE MODES

CONSERVE

Enables efficient driving. It helps to deliver maximum fuel efficiency and helps to increase driving range.

Drive Mode Control

EXCITE

For sporty on-road driving. This mode increases throttle response, provides a sportier exhaust sound and steering feel, along with quicker shifting. The suspension could stiffen, with an emphasis on handling and control. The transmission also holds gears longer, helping your vehicle accelerate faster when shifting gears.

Note: *Sportier exhaust sound may not be available depending on vehicle configuration.*

NORMAL

For everyday driving. This mode is a perfect balance of excitement, comfort and convenience. This is the default mode after each ignition cycle.

PRESERVE EV - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Your vehicle runs the engine as needed to save electric driving range for later use in another drive mode. For example, you first drive at high speeds on open roads where engine operation is appropriate. Later, you drive at low speeds in an urban area where electric only is most efficient.

If the battery charge is low when you select this mode, the engine begins to charge the high voltage battery to provide some electric range for later.

PURE EV - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

This mode can provide an electric only driving experience. Your vehicle could accelerate slower, and the top speed could be reduced. For more power, fully press the accelerator pedal to temporarily engage the engine.

Your vehicle could enable the engine if system conditions require it. An engine enabled message displays if this occurs.

The engine could enable if the climate control is in a defrost mode and the outside temperature is cold. If the vehicle does not need defrost, select a different climate control mode to permit pure EV.

Your vehicle changes from pure EV mode to normal mode when the vehicle electric range is zero.

Note: *When in pure EV mode, your vehicle stays in this mode if there is all electric driving range available and the system does not fault.*

SLIPPERY

For less than ideal road conditions, such as snow or ice covered roads. Slippery mode inspires confidence without taking away from driving pleasure. Slippery mode lowers throttle response and optimizes shifting for slippery surfaces.

Note: *Using slippery mode on dry hard surfaces could produce some vibration, driveline bind up, and potential excessive tire wear as the intent of this mode is for slippery and loose surfaces.*

Drive Mode Control

DRIVE MODE CONTROL VIDEOS

[*Lincoln Drive Modes Video Link*](#)

WHAT IS ECO COACH

Eco coach is designed to monitor certain driving characteristics to help you drive more efficiently.

HOW DOES ECO COACH WORK

Eco coach provides feedback through the instrument cluster display about your driving behaviour.

Note: *The efficiency levels do not result in a defined fuel consumption figure.*

Note: *The system only indicates the efficiency level for the current trip. The system resets each time you switch the ignition on.*

HOW DOES INSTANTANEOUS EFFICIENCY LEVEL WORK

The display ring increases as the instantaneous efficiency level increases and illuminates when it reaches maximum efficiency. The level continuously updates to indicate the efficiency level for the current trip.

VIEWING THE INSTANTANEOUS EFFICIENCY LEVEL

1. Press the menu button on the steering wheel to enter the instrument cluster display main menu.
2. Select **Display Setup**.
3. Select **Eco Coach**.
4. Select a setting and press the **OK** button.

HOW DOES TRIP SUMMARY WORK

The calculated trip summary is shown as four colored bars. The bars travel from left to right as the calculated efficiency levels increase. The bars indicate the average efficiency level for acceleration, deceleration, speed and gear shifting during the total distance traveled by your vehicle for the current trip.

Note: *Vehicles with an automatic transmission do not have a bar for gear shifting.*

VIEWING THE TRIP SUMMARY

1. Press the menu button on the steering wheel to enter the instrument cluster display main menu.
2. Select **Select Screens**.
3. Select **Eco Behavior**.
4. Select the screen on your main screen. See **Instrument Cluster Display Main Menu** (page 153).

Lane Keeping System

WHAT IS THE LANE KEEPING SYSTEM

The lane keeping system alerts you by providing temporary steering assistance or steering wheel vibration when it detects an unintended lane departure.

HOW DOES THE LANE KEEPING SYSTEM WORK

The lane keeping system uses a forward looking camera mounted on the windshield to monitor vehicle movement within the travel lane.

When the camera detects a drift out of the travel lane, the lane keeping system alerts the driver by vibrating the steering wheel, or aids the driver by providing a small steering input to move the vehicle back into the travel lane.

The driver can select one of three modes:

- Alert (If Equipped)
- Aid
- Alert + Aid

LANE KEEPING SYSTEM PRECAUTIONS



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: The system will not operate if the sensor cannot track the road lane markings.



WARNING: The sensor may incorrectly track lane markings as other structures or objects. This can result in a false or missed warning.



WARNING: In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.



WARNING: The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.



WARNING: If damage occurs in the immediate area surrounding the sensor, have your vehicle checked as soon as possible.



WARNING: The system may not correctly operate if your vehicle is fitted with a suspension kit not approved by us.



WARNING: Large contrasts in outside lighting can limit sensor performance.

Lane Keeping System

LANE KEEPING SYSTEM LIMITATIONS

The lane keeping system only operates when the vehicle speed is greater than 40 mph (64 km/h).

The system works when the camera can detect at least one lane marking or the edge of the road.

The lane keeping system may not correctly operate in any of the following conditions:

- The lane keeping system does not detect at least one lane marking.
- You switch the turn signal on.
- You apply direct steering, accelerate fast or brake hard.
- The vehicle speed is less than 40 mph (64 km/h).
- The anti-lock brake, stability control or traction control system activates.

- The lane is too narrow.
- Something is obscuring the camera or it is unable to detect the lane markings due to environment, traffic or vehicle conditions.

The lane keeping system may not correct lane positioning in any of the following conditions:

- High winds.
- Uneven road surfaces.
- Heavy or uneven loads.
- Incorrect tire pressure.

SWITCHING THE LANE KEEPING SYSTEM ON AND OFF



To activate the lane keeping system, press the button on the direction indicator stalk.

To deactivate the lane keeping system, press the button again.

Note: When switching the system on or off a message appears in the instrument cluster display to show the status.

Note: The system stores the on or off setting until manually changed.

Lane Keeping System

SWITCHING THE LANE KEEPING SYSTEM MODE

The lane keeping system has different settings that you can view or adjust using the instrument cluster display.

The system stores the last known selection for each of these settings. You do not need to readjust your settings each time you switch on the system.

To change the lane keeping system mode, use the touchscreen:

1. Press **Settings** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Lane-Keeping System**.
4. Press **Lane-Keeping Mode**.
5. Select a mode.

Note: *The system remembers the last setting when you start your vehicle.*

LANE KEEPING SYSTEM SETTINGS

Adjusting the Steering Wheel Vibration Intensity

1. Access the vehicle drawer on the touchscreen.
2. Press **SETTINGS**.
3. Press **Driver Assistance**.
4. Press **Lane-Keeping System**.
5. Press **Lane-Keeping Intensity**.
6. Select a setting.

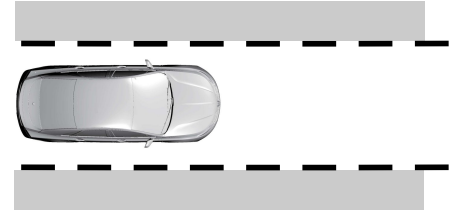
Note: *This setting is not available in all modes.*

ALERT MODE

WHAT IS ALERT MODE

Alert mode vibrates the steering wheel when it detects an unintended lane departure.

HOW DOES ALERT MODE WORK



When in alert mode, the lane keeping system alerts you by vibrating the steering wheel. The intensity of the vibration is set through the lane keeping system menu.

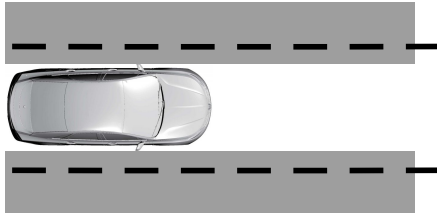
AID MODE

WHAT IS AID MODE

Aid mode provides temporary steering assistance toward the center of the lane.

Lane Keeping System

HOW DOES AID MODE WORK



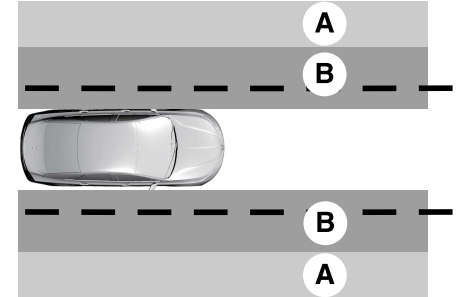
The lane keeping system aids you when an unintentional lane departure occurs. The system provides a small steering input to move the vehicle towards the center of the lane.

ALERT AND AID MODE

WHAT IS ALERT AND AID MODE

Alert and aid mode uses multiple features to keep you in your lane. The system first provides a small steering input to bring your vehicle back towards the center of the lane. If your vehicle moves too far out of the center of the lane the system alerts you with vibration in the steering wheel.

HOW DOES ALERT AND AID MODE WORK



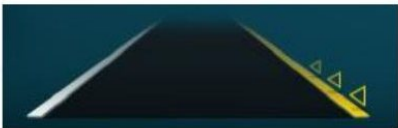
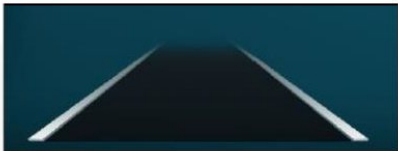
A Alert.

B Aid.

The lane keeping system detects a lane departure and provides aid when the vehicles enters **B** and applies the additional alert warning if **A** is entered.

Lane Keeping System

LANE KEEPING SYSTEM INDICATORS



If you switch the lane keeping system on, a graphic with lane markings appears in the information display.

When you switch the system off, the lane marking graphics do not display.

Note: *The overhead vehicle graphic may still display if adaptive cruise control is enabled.*

While the lane keeping system is on, the color of the lane markings change to indicate the system status.

Gray	White	Yellow	Red
Indicates that the system is temporarily unavailable to provide a warning or intervention on the indicated side.	Indicates that the system is available or ready to provide a warning or intervention on the indicated side.	Indicates that the system is providing or has just provided a lane keeping aid intervention.	Indicates that the system is providing or has just provided a lane keeping alert warning.

Lane Keeping System

BLIND SPOT ASSIST

WHAT IS BLIND SPOT ASSIST

Blind spot assist is an extension of the lane keeping system.

It may help you identify adjacent vehicles during a lane change.

Blind spot assist provides a blind spot warning and steering assistance to help during lane changes.

HOW DOES BLIND SPOT ASSIST WORK



Activate and deactivate the system using the lane keeping system button on the steering wheel.

During lane changes, the design of the blind spot assist feature detects vehicles in, or approaching, your blind spot and provides a warning, plus steering assistance to direct your vehicle back into your lane.

When active, this system functions with or without the use of direction indicators and hazard flashers.

You must keep your hands on the steering wheel at all times.

BLIND SPOT ASSIST LIMITATIONS

All system limitations present in the basic lane keeping system also apply to blind spot assist.

Blind spot assist does not function under the following conditions:

- The system does not detect lane markings.
- One or both rear radar sensors become blocked or faulty.
- You attach a trailer with a wiring connection to your vehicle.

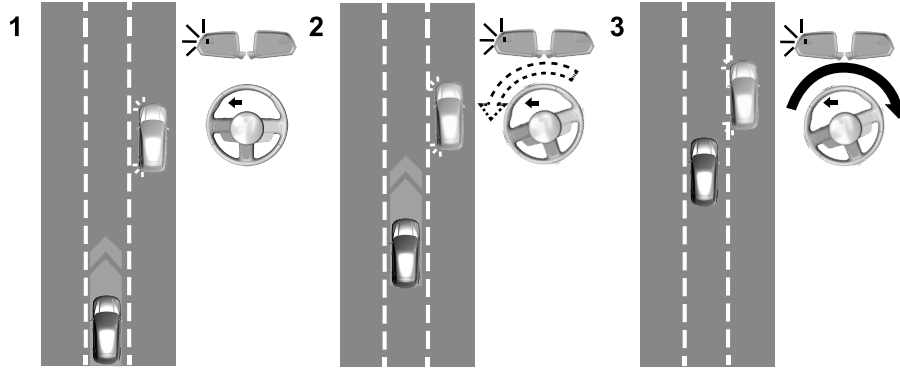
Note: *Blind spot assist may have reduced performance if you attach a trailer to your vehicle without a wiring connection.*

Blind spot assist may have difficulty detecting hazards under the following conditions:

- If a vehicle is approaching in an adjacent lane at a relative speed much higher than your vehicle.
- Bad weather conditions are present that obstruct the sensors.
- You attach a bicycle rack to your vehicle.

Lane Keeping System

BLIND SPOT ASSIST INDICATORS



The lane keeping aid warning lamp or yellow lane marking in your instrument cluster indicate blind spot assist activation. In addition, the blind spot information system alert indicator flashes on the exterior mirror on the same side as the detection. For more information See **Blind Spot Information System** (page 353).

Lane Keeping System

Blind Spot Assist Information Messages

Message	Details
Blind Spot Assist Not Available Trailer Attached	Displays if you attach a trailer to your vehicle.
Blind Spot Assist Not Available Side Sensor Blocked	Displays if the blind spot information system sensors are blocked.
Blind Spot Assist System fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.

Lane Keeping System

LANE KEEPING SYSTEM – TROUBLESHOOTING

LANE KEEPING SYSTEM – INFORMATION MESSAGES

Message	Action
Lane Keeping Sys. Malfunction Service Required	The system has malfunctioned. Have your vehicle checked as soon as possible.
Front Camera Temporarily Not Available	The system has detected a condition that has caused the system to be temporarily unavailable.
Front Camera Low Visibility Clean Screen	The system has detected a condition that requires you to clean the windshield in order for it to operate properly.
Front Camera Malfunction Service Required	The system has malfunctioned. Have your vehicle checked as soon as possible.
Keep Hands on Steering Wheel	The system requests that you keep your hands on the steering wheel.

Lane Keeping System

LANE KEEPING SYSTEM – FREQUENTLY ASKED QUESTIONS

Why is the feature not available (lane markings are gray) when I can see the lane markings on the road?
Your vehicle speed is less than 40 mph (65 km/h).
The sun is shining directly into the camera lens.
A quick intentional lane change has occurred.
Your vehicle stays too close to the lane markings for an extended interval of time.
Driving at high speeds in curves.
The last alert warning or aid intervention occurred a short time ago.
Ambiguous lane markings, for example, in construction zones.
Rapid transition from light to dark, or from dark to light.
Sudden offset in lane markings.
ABS or AdvanceTrac™ is active.
There is a camera blockage due to dirt, grime, fog, frost or water on the windshield.
You are driving too close to the vehicle in front of you.
Transitioning between no lane markings to lane markings, or vice versa.
There is standing water on the road.
Faint lane markings, for example, partial yellow lane markings on concrete roads.

Lane Keeping System

Why is the feature not available (lane markings are gray) when I can see the lane markings on the road?

Lane width is too narrow or too wide.

You have not calibrated the camera after a windshield replacement.

Driving on tight or on uneven roads.

Why does the vehicle not come back toward the middle of the lane, as expected, in the Aid, or Aid + Alert mode?

High cross winds are present.

There is a large road crown.

Rough roads, grooves or shoulder drop-offs.

Heavy, uneven loading of the vehicle or improper tire inflation pressure.

You changed the tires or modified the suspension.

LANE KEEPING SYSTEM VIDEOS

[Lane-Keeping System Video Link](#)

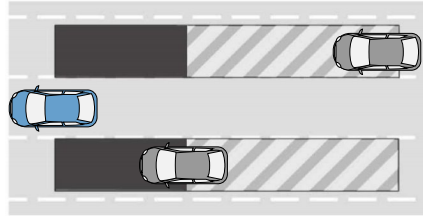
Blind Spot Information System

WHAT IS BLIND SPOT INFORMATION SYSTEM

Blind spot information system detects vehicles that may have entered the blind spot zone.

HOW DOES BLIND SPOT INFORMATION SYSTEM WORK

Blind spot information system uses sensors on both sides of your vehicle, detecting rearward from the exterior mirrors to approximately 13 ft (4 m) beyond the rear bumper. The detection area extends to approximately 59 ft (18 m) beyond the rear bumper when the vehicle speed is greater than 30 mph (48 km/h) to alert you of faster approaching vehicles.



BLIND SPOT INFORMATION SYSTEM PRECAUTIONS

WARNING: Do not use the blind spot information system as a replacement for using the interior and exterior mirrors or looking over your shoulder before changing lanes. The blind spot information system is not a replacement for careful driving.



WARNING: The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.

Note: *Blind spot information system does not prevent contact with other vehicles. It does not detect parked vehicles, pedestrians, animals or other infrastructure.*

BLIND SPOT INFORMATION SYSTEM LIMITATIONS

Blind spot information system does not operate in park (P) or reverse (R).

The system may not alert you if a vehicle quickly passes through the detection zone.

Blind Spot Information System

Note: For vehicles without blind spot information system with trailer coverage, aftermarket trailer tow modules or tow bars may interfere with the system. In this situation it is recommended that you switch the system off when you attach a trailer. For vehicles with a trailer tow module and tow bar approved by the manufacturer, the system automatically turns off when you attach a trailer.

BLIND SPOT INFORMATION SYSTEM REQUIREMENTS

Blind spot information system turns on when all the following occur:

- You start your vehicle.
- You shift into drive (D).
- The vehicle speed is greater than 6 mph (10 km/h).

SWITCHING BLIND SPOT INFORMATION SYSTEM ON AND OFF

To switch blind spot information system on or off, use the touchscreen:

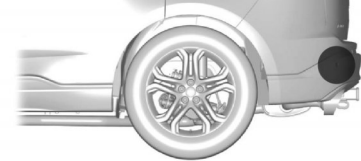
1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Blind Spot Information System**.
4. Switch the feature on or off.

When you switch blind spot information system off, a warning lamp illuminates. When you switch the system on or off, the alert indicators flash twice.

Note: The system remembers the last setting when you start your vehicle.

To permanently switch the system off, contact an authorized dealer.

LOCATING THE BLIND SPOT INFORMATION SYSTEM SENSORS



The sensors are behind the rear fascia on both sides of your vehicle.

Note: Keep the sensors free from snow, ice and large accumulations of dirt.

Note: Do not cover the sensors with bumper stickers, repair compound or other objects.

Note: Bike and cargo racks could cause false alerts due to obstruction of the sensor. We recommend switching the feature off when using a bike or cargo rack.

Note: Blocked sensors may affect system accuracy.

Blind Spot Information System

If the sensors become blocked, a message appears in the instrument cluster display. See **Blind Spot Information System – Information Messages** (page 356). The alert indicators illuminate but the system does not alert you.

BLIND SPOT INFORMATION SYSTEM INDICATORS



When blind spot information system detects a vehicle, an alert indicator illuminates in the exterior mirror on the side the approaching vehicle is coming from. If you turn the turn signal on for that side of your vehicle, the alert indicator flashes.

Blind Spot Information System

BLIND SPOT INFORMATION SYSTEM – TROUBLESHOOTING

BLIND SPOT INFORMATION SYSTEM – INFORMATION MESSAGES

Message	Action
Blind Spot System Fault	A fault with the system has occurred. Have your vehicle checked as soon as possible.
Blind Spot Not Available Sensor Blocked See Manual	Something is blocking the sensors. Clean the sensors.
Blind Spot Alert Deactivated Trailer Attached	The system automatically turns off and displays this message when you connect a trailer to the vehicle that does not have a trailer blind spot system or when you switch the trailer blind spot system off through the touchscreen.

Note: When connecting a trailer, the system may detect the trailer and turn the system OFF. If the system does not turn OFF automatically, switch the blind spot information system OFF manually. If equipped with blind spot with trailer tow, you will be prompted to set up a trailer that allows the feature to function with that trailer.

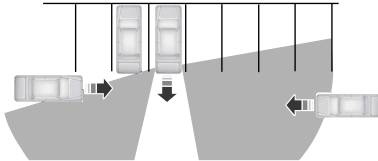
Cross Traffic Alert

WHAT IS CROSS TRAFFIC ALERT

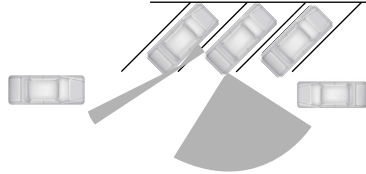
The system alerts you of vehicles approaching from the sides behind your vehicle when you shift into reverse (R).

HOW DOES CROSS TRAFFIC ALERT WORK

Cross traffic alert detects vehicles that approach at a speed between 4–37 mph (6–60 km/h). Coverage decreases when the sensors are partially, mostly or fully obstructed.



The sensor on the left-hand side is only partially obstructed and zone coverage on the right-hand side is maximized.



Zone coverage also decreases when parking at narrow angles. The sensor on the left-hand side is mostly obstructed and zone coverage on that side is severely reduced.

Note: *Slowly reversing helps increase the coverage area and effectiveness.*

CROSS TRAFFIC ALERT PRECAUTIONS



WARNING: Do not use the cross traffic alert system as a replacement for using the interior and exterior mirrors or looking over your shoulder before reversing out of a parking space. The cross traffic alert system is not a replacement for careful driving.



WARNING: The system may not operate properly during severe weather conditions, for example snow, ice, heavy rain and spray. Always drive with due care and attention. Failure to take care may result in a crash.

Cross Traffic Alert

CROSS TRAFFIC ALERT LIMITATIONS

The system may not correctly operate when any of the following occur:

- Something is blocking the sensors.
- Adjacently parked vehicles or objects are obstructing the sensors.
- Vehicles approach at speeds less than 4 mph (6 km/h) or greater than 37 mph (60 km/h).
- Your vehicle speed is greater than 7 mph (12 km/h).
- You reverse out of an angled parking space.

Cross Traffic Alert Limitations with a Trailer Attached

The system remains on when you attach a trailer in vehicles with blind spot information system with trailer tow under the following conditions:

- You connect a trailer.
- The trailer is a bike rack or cargo rack with a maximum length of 3 ft (1 m).
- You set the trailer length to 3 ft (1 m) in the instrument cluster display.

Note: *The system may not correctly operate when towing a trailer. For vehicles with a trailer tow module and tow bar approved by the manufacturer, the system turns off when you attach a trailer. For vehicles with an aftermarket trailer tow module or tow bar, we recommend that you switch the system off when you attach a trailer.*

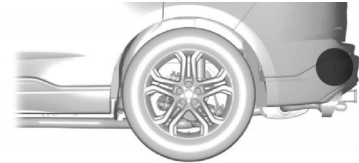
SWITCHING CROSS TRAFFIC ALERT ON AND OFF

To switch cross traffic alert on or off use the touchscreen.

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Switch **Cross Traffic Alert** on or off.

Note: *The system switches on every time you switch the ignition on. To permanently switch the system off, contact an authorized dealer.*

LOCATING THE CROSS TRAFFIC ALERT SENSORS



The sensors are behind the rear fascia on both sides of your vehicle.

Note: *Keep the sensors free from snow, ice and large accumulations of dirt.*

Cross Traffic Alert

Note: Do not cover the sensors with bumper stickers, repair compound or other objects.

Note: Blocked sensors may affect system accuracy.

If something is blocking the sensors, a message may appear in the information display when you shift into reverse (R).

Note: Bike and cargo racks could cause false alerts due to obstruction of the sensor. We recommend switching the feature off when using a bike or cargo rack.

CROSS TRAFFIC ALERT INDICATORS



When the cross traffic alert detects an approaching vehicle, a tone sounds, a warning lamp illuminates in the relevant exterior mirror and arrows appear in the information display to show which side the vehicle is approaching from.

If the system malfunctions, a message appears in the instrument cluster. Have your vehicle checked as soon as possible.

Note: If arrows do not display, a message appears in the information display.

Note: In some conditions, the system could alert you, even when there is nothing in the detection zone, for example a vehicle passing further away from your vehicle.

Cross Traffic Alert

CROSS TRAFFIC ALERT – TROUBLESHOOTING

CROSS TRAFFIC ALERT – INFORMATION MESSAGES

Message	Action
Cross Traffic Alert	Displays instead of indication arrows when the system detects a vehicle. Check for approaching traffic.
Cross Traffic Not Available Sensor Blocked See Manual	Indicates blocked cross traffic alert system sensors. Clean the sensors. If the message continues to appear, have your vehicle checked as soon as possible.
Cross Traffic System Fault	The system has malfunctioned. Have your vehicle checked as soon as possible.
Cross Traffic Alert Deactivated Trailer Attached	Displays if you attach a trailer to your vehicle.

Note: When connecting a trailer, the system may detect the trailer and turn the system OFF. If the system does not turn OFF automatically, switch the cross traffic alert system OFF manually.

Pre-Collision Assist

WHAT IS PRE-COLLISION ASSIST

Pre-collision assist detects and warns of approaching hazards in the roadway. The system provides multiple levels of assistance to help avoid a collision if your vehicle is rapidly approaching another stationary vehicle, a vehicle traveling in the same direction as yours, or a pedestrian or cyclist within your driving path.

HOW DOES PRE-COLLISION ASSIST WORK

The system warns the driver of potential hazards by providing three levels of assistance.



If your vehicle is rapidly approaching potential hazards the system provides the following levels of functionality:

1. Alert.
2. Brake Support.

3. Automatic Emergency Braking.



Alert: When active, a flashing visual warning appears and an audible warning tone sounds.

Brake Support: The system is designed to help reduce the impact speed by preparing the brakes for rapid braking. The system does not automatically apply the brakes. If you press the brake pedal, the system could apply additional braking up to maximum braking force, even if you lightly press the brake pedal.

Automatic Emergency Braking: Automatic emergency braking may activate if the system determines that a collision is imminent.

Note: *If you perceive the pre-collision assist alerts as being too frequent or disturbing, then you can reduce the alert sensitivity. Setting the low sensitivity would result in fewer and later warnings of a potential forward collision. The manufacturer recommends using the high sensitivity setting where possible.*

Note: *Automatic emergency braking performance is not affected by the sensitivity setting.*

Each system has various levels of detection capabilities. See **Pre-Collision Assist Limitations** (page 363).

PRE-COLLISION ASSIST PRECAUTIONS



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

Pre-Collision Assist



WARNING: The system does not detect vehicles moving in a different direction or animals. Apply the brakes when necessary. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: The system does not operate during hard acceleration or steering. Failure to take care may lead to a crash or personal injury.



WARNING: The system may operate with reduced function during cold and inclement weather conditions. Snow, ice, rain, spray and fog can adversely affect the system. Keep the front camera and radar free of snow and ice. Failure to follow this instruction may result in the loss of control of your vehicle, serious personal injury or death.



WARNING: Take additional care if your vehicle is heavily loaded or you are towing a trailer. These conditions could result in reduced performance of this system. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: The system cannot help prevent all crashes. Do not rely on this system to replace driver judgment and the need to maintain a safe distance and speed.



WARNING: System performance could be reduced in situations where the vehicle camera has limited detection capability. These situations include but are not limited to direct or low sunlight, vehicles at night without tail lights, unconventional vehicle types, and pedestrians and cyclists with complex, partially obscured backgrounds. Failure to take care may result in the loss of control of your vehicle, personal injury or death.

PRE-COLLISION ASSIST LIMITATIONS

Pre-collision assist depends on the detection ability of its camera and sensors. Any obstructions or damage to these areas can limit detection or prevent the system from functioning. See **Locating the Pre-Collision Assist Sensors** (page 365).

The system is active at 3 mph (5 km/h) and above.

Note: *The pre-collision assist system automatically disables when you select four-wheel drive low or manually disable AdvanceTrac™.*

Note: *Brake support and automatic emergency braking are active at speeds up to 80 mph (130 km/h). If your vehicle has a radar sensor included with adaptive cruise control, then brake support and automatic emergency braking are active up to the maximum speed of your vehicle.*

Pre-Collision Assist

Pedestrian Detection Limitations

Pedestrian detection is active at speeds up to 50 mph (80 km/h).

Pedestrian detection operates optimally when detected hazards are clearly identifiable. System performance may reduce in situations where pedestrians are running, partly obscured, have a complex background, or cannot be distinguished from a group.

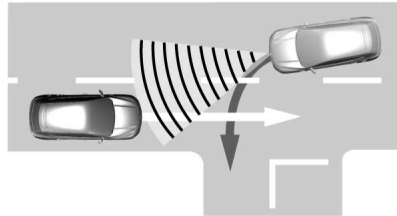
Cyclist Detection Limitations

Cyclist detection is active at speeds up to 50 mph (80 km/h).

Cyclist detection functions optimally when detected hazards are clearly identifiable. System performance may reduce in situations where cyclists are fast-moving, partly obscured, have a complex background, or cannot be distinguished from a group.

Intersection Assist (If Equipped)

If your vehicle comes with a radar sensor included in adaptive cruise control, the pre-collision assist system may operate in a scenario where you are turning across an oncoming vehicle's path. Detection of vehicles driving in an oncoming direction is active if your vehicle is driving at speeds up to 19 mph (30 km/h).



PRE-COLLISION ASSIST LIMITATIONS - VEHICLES WITH: INTERSECTION ASSIST

Pre-collision assist depends on the detection ability of its camera and sensors. Any obstructions or damage to these areas can limit detection or prevent the system from functioning. See **Locating the Pre-Collision Assist Sensors** (page 365).

The system is active at 3 mph (5 km/h) and above.

Note: *Brake support and automatic emergency braking are active up to the maximum speed of the vehicle.*

Pedestrian Detection Limitations

Pedestrian detection is active at speeds up to 50 mph (80 km/h).

Pre-Collision Assist

Pedestrian detection operates optimally when detected hazards are clearly identifiable. System performance may reduce in situations where pedestrians are running, partly obscured, have a complex background, or cannot be distinguished from a group.

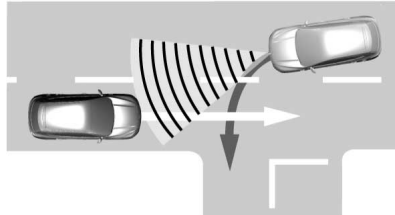
Cyclist Detection Limitations

Cyclist detection is active at speeds up to 50 mph (80 km/h).

Cyclist detection functions optimally when detected hazards are clearly identifiable. The system's detection level may be less in situations where cyclists are moving fast, partly hidden, have a complex background, or the system cannot distinguish the cyclist from a group.

Intersection Assist (If Equipped)

The pre-collision assist system may operate in a scenario where you are turning across the path of an oncoming vehicle, or with crossing pedestrians and cyclists. Detection of vehicles driving in an oncoming direction is active if your vehicle is driving at speeds up to 50 mph (80 km/h). Detection of crossing pedestrians and cyclists at an intersection is active if your vehicle is driving at speeds up to 19 mph (30 km/h).



SWITCHING PRE-COLLISION ASSIST ON AND OFF

You cannot switch the system off.

Adjusting the Pre-Collision Assist Settings

You can adjust the following settings by using the touchscreen controls in the pre-collision assist menu:

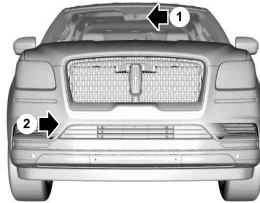
- Change alert and distance alert sensitivity to one of three possible settings.
- Switch distance indication and alert on or off.
- If required, switch automatic emergency braking on or off.
- If required, switch evasive steering assist on or off.

Note: Automatic emergency braking and evasive steering automatically turns on every time you switch the ignition on.

Note: If you switch automatic emergency braking off, evasive steering assist switches off.

Pre-Collision Assist

LOCATING THE PRE-COLLISION ASSIST SENSORS



1. Camera.
2. Radar sensor (if equipped).

If a message regarding a blocked sensor or camera appears in the information display, something is obstructing the radar signals or camera images. The radar sensor is behind the fascia cover in the center of the lower grille. With a blocked sensor or camera, the system may not function, or performance may reduce. See **Pre-Collision Assist – Information Messages** (page 369).

Note: Proper system operation requires a clear view of the road by the camera. Have any windshield damage in the area of the camera's field of view repaired.

Note: If something hits the front end of your vehicle or damage occurs and your vehicle has a radar sensor, the radar sensing zone could change. This could cause missed or false vehicle detections. Have your vehicle serviced to have the radar checked for proper coverage and operation.

Note: If your vehicle detects excessive heat at the camera or a potential misalignment condition, a message could display in the information display indicating temporary sensor unavailability. When operational conditions are correct, the message deactivates. For example, when the ambient temperature around the sensor decreases or the sensor recalibrates successfully.

DISTANCE INDICATION

WHAT IS DISTANCE INDICATION

Distance indication displays the gap between your vehicle and the vehicle ahead of you.

Note: The graphic does not display if you switch on cruise control or adaptive cruise control.

Pre-Collision Assist

Vehicle Speed	System Sensitivity	Distance Indicator Color	Distance Gap	Time Gap
62 mph (100 km/h).	Normal.	Blue.	Greater than 82 ft (25 m).	Greater than 0.9 seconds.
		Yellow.	56–82 ft (17–25 m).	0.6-0.9 seconds.
		Red.	Less than 56 ft (17 m).	Less than 0.6 seconds.

SWITCHING DISTANCE INDICATION ON AND OFF

To switch the system on or off, use the touchscreen:

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Pre-Collision Assist**.
4. Switch **Distance Indication** on or off.

DISTANCE INDICATION INDICATOR

The indicator displays the time gap between your vehicle and vehicles traveling in the same direction ahead of you. The area in front your vehicle changes shape and color as the vehicle in front of you gets closer or farther away.

Pre-Collision Assist

DISTANCE ALERT

WHAT IS DISTANCE ALERT

The system alerts you with a warning lamp if the distance to the vehicle ahead is small.

Note: *The warning lamp does not illuminate if cruise control or adaptive cruise control is active.*

ADJUSTING THE SENSITIVITY OF DISTANCE ALERT

To adjust the sensitivity of the system, use the touchscreen:

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Pre-Collision Assist**.
4. Press **Alert Sensitivity**.
5. Select a setting.

AUTOMATIC EMERGENCY BRAKING

WHAT IS AUTOMATIC EMERGENCY BRAKING

Automatic emergency braking may activate if the system determines that a collision is imminent. The system may help reduce impact damage to avoid the crash completely.

Automatic emergency braking is only available up to certain speeds. See **Pre-Collision Assist Limitations** (page 363).

SWITCHING AUTOMATIC EMERGENCY BRAKING ON AND OFF

To switch the system on or off, use the touchscreen:

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Pre-Collision Assist**.
4. Press **Auto Emergency Braking**.
5. Switch the feature on or off.

EVASIVE STEERING ASSIST

WHAT IS EVASIVE STEERING ASSIST

If your vehicle is rapidly approaching a road user, evasive steering assist helps you steer around the road user.

After you turn the steering wheel in an attempt to avoid a crash with the road user, the system applies additional steering torque to help you steer around the road user. After you pass the road user, the system applies steering torque when you turn the steering wheel to steer back into the lane. The system deactivates after you fully pass the road user.

Note: *Road users are defined as pedestrians or bicyclists in your vehicle's path or another stationary vehicle in the same lane or a vehicle traveling in the same lane in the same direction as you. See **Pre-Collision Assist Precautions** (page 361).*

Pre-Collision Assist

EVASIVE STEERING ASSIST LIMITATIONS

Evasive steering assist only activates when all the following occur:

- Automatic emergency braking and evasive steering assist are on.
- The system detects a road user ahead and starts to apply the brakes.
- You significantly turn the steering wheel to steer around a road user.

Note: *Evasive steering assist does not automatically steer around a road user. If you do not turn the steering wheel, evasive steering assist does not activate.*

Note: *Evasive steering assist does not activate if the distance to the road user ahead is too small and the system cannot avoid a crash.*

SWITCHING EVASIVE STEERING ASSIST ON AND OFF

To switch the system on or off, use the touchscreen:

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Pre-Collision Assist**.
4. Switch **Evasive Steering** on or off.

Note: *If you switch automatic emergency braking off, evasive steering assist turns off.*

Note: *Automatic emergency braking and evasive steering assist turn on every time you switch the ignition on.*

PRE-COLLISION ASSIST – TROUBLESHOOTING

PRE-COLLISION ASSIST – WARNING LAMPS



A telltale illuminates in the cluster to indicate if the system is disabled or unavailable.

PRE-COLLISION ASSIST – INFORMATION MESSAGES

Message	Action
Pre-Collision Assist Not Available Sensor Blocked	You have a blocked sensor due to bad weather, ice, mud or water in front of the radar sensor. You can typically clean the sensor to resolve.
Pre-Collision Assist Not Available	A fault with the system has occurred. Have your vehicle checked as soon as possible.

Pre-Collision Assist

PRE-COLLISION ASSIST – FREQUENTLY ASKED QUESTIONS

Camera Troubleshooting

The windshield in front of the camera is dirty or obstructed.

Clean the outside of the windshield in front of the camera.

The windshield in front of the camera is clean, but the message remains in the instrument cluster display.

Wait a short time. It could take several minutes for the camera to detect that there is no obstruction.

Radar Troubleshooting (If Equipped)

The surface of the radar in the grille is dirty or obstructed.

Clean the grille surface in front of the radar or remove the object causing the obstruction.

The surface of the radar in the grille is clean, but the message remains in the instrument cluster display.

Wait a short time. It could take several minutes for the radar to detect that there is no obstruction.

Heavy rain, spray or fog is interfering with the radar signals.

The pre-collision assist system is temporarily disabled. Pre-collision assist reactivates a short time after the weather conditions improve.

Swirling water or snow or ice on the surface of the road is interfering with the radar signals.

The pre-collision assist system is temporarily disabled. Pre-collision assist reactivates a short time after the weather conditions improve.

Radar is out of alignment due to a front-end impact.

Have your vehicle serviced to have the radar checked for proper coverage and operation.

PRE-COLLISION ASSIST – FREQUENTLY ASKED QUESTIONS

Camera Troubleshooting

The windshield in front of the camera is dirty or obstructed.

Clean the outside of the windshield in front of the camera.

The windshield in front of the camera is clean, but the message remains in the instrument cluster display.

Wait a short time. It could take several minutes for the camera to detect that there is no obstruction.

Radar Troubleshooting (If Equipped)

The surface of the radar in the grille is dirty or obstructed.

Clean the grille surface in front of the radar or remove the object causing the obstruction.

The surface of the radar in the grille is clean, but the message remains in the instrument cluster display.

Wait a short time. It could take several minutes for the radar to detect that there is no obstruction.

Heavy rain, spray or fog is interfering with the radar signals.

The pre-collision assist system is temporarily disabled. Pre-collision assist reactivates a short time after the weather conditions improve.

Swirling water or snow or ice on the surface of the road could interfere with the radar signals.

The pre-collision assist system is temporarily disabled. Pre-collision assist reactivates a short time after the weather conditions improve.

Radar is out of alignment due to a front end impact.

Have your vehicle serviced to have the radar checked for proper coverage and operation.

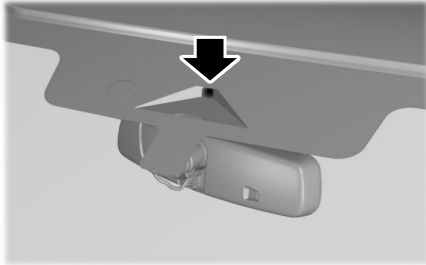
Driver Alert

WHAT IS DRIVER ALERT


Driver alert alerts you if it determines that you are becoming drowsy or if your driving deteriorates.


HOW DOES DRIVER ALERT WORK


Driver Alert calculates your alertness level based on your driving behavior in relation to the lane markings and other factors through use of the front camera sensor behind the interior mirror.





DRIVER ALERT PRECAUTIONS


 **WARNING:** You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.


 **WARNING:** Take regular rest breaks if you feel tired. Do not wait for the system to warn you.


 **WARNING:** Certain driving styles may result in the system warning you even if you are not feeling tired.

 **WARNING:** In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.

 **WARNING:** The system will not operate if the sensor cannot track the road lane markings.

 **WARNING:** If damage occurs in the immediate area surrounding the sensor, have your vehicle checked as soon as possible.

 **WARNING:** The system may not correctly operate if your vehicle is fitted with a suspension kit not approved by us.

 **WARNING:** The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.

Note: *If something is blocking the camera or damaged the windshield, Driver Alert may not function.*

Driver Alert

DRIVER ALERT LIMITATIONS

Driver alert may not function correctly if:

- The sensor cannot track the road lane markings.
- Your vehicle's speed is less than approximately 40 mph (65 km/h).

SWITCHING DRIVER ALERT ON AND OFF

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Switch **Driver Alert** on or off.

Note: *The system remains on or off depending on how it was last set.*

Resetting Driver Alert

You can reset the system by either:

- Switching the ignition off and on.
- Opening and closing the driver door when your vehicle is stationary, and it is safe to do so.

DRIVER ALERT – TROUBLESHOOTING

DRIVER ALERT – INFORMATION MESSAGES

Message	Action
Driver Alert Warning Rest Now	Stop and rest as soon as it is safe to do so.
Driver Alert Warning Rest Suggested	Take a rest soon.

Speed Sign Recognition

WHAT IS SPEED SIGN RECOGNITION

Speed sign recognition detects speed limit signs to inform you of the current speed limit. Detected speed signs appear in the instrument cluster display.

HOW DOES SPEED SIGN RECOGNITION WORK

Speed sign recognition uses a sensor behind the interior mirror to detect speed signs.

If your vehicle has speed sign recognition with navigation, stored speed sign data may influence the indicated speed limit value.

SPEED SIGN RECOGNITION PRECAUTIONS



WARNING: You are responsible for controlling your vehicle at all times. The system is designed to be an aid and does not relieve you of your responsibility to drive with due care and attention. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: In cold and severe weather conditions the system may not function. Rain, snow and spray can all limit sensor performance.



WARNING: The system may not operate properly if the sensor is blocked. Keep the windshield free from obstruction.



WARNING: Do not perform windshield repairs in the area surrounding the sensor.



WARNING: The system may not correctly operate if your vehicle is fitted with a suspension kit not approved by Ford.



WARNING: Not all traffic signs can be recognized by the system and displayed correctly.

Note: Always fit our original parts when replacing headlamp bulbs. Other bulbs may reduce system performance. See **Exterior Bulb Specification Chart** (page 450).

SPEED SIGN RECOGNITION LIMITATIONS

Speed sign recognition may not operate correctly due to:

- Outdated map data.
- Incorrect recognition of speed limits by the sensor of signs on parallel roads or exit ramps.
- Missed recognition of faded, dirty, or distorted signs.

Speed Sign Recognition

SPEED SIGN RECOGNITION INDICATORS



When the system detects a speed limit sign, it appears in the instrument cluster display.

Note: *Sign indicator image may vary based on your vehicle's display type.*

SETTING THE SPEED SIGN RECOGNITION SPEED WARNING

To set the speed warning, use the touchscreen:

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Speed Limit Assist**.

4. Select to switch the feature on or off.

SETTING THE SPEED SIGN RECOGNITION SPEED TOLERANCE

To set the tolerance of the speed warning, use the touchscreen.

1. Press **Features** on the touchscreen.
2. Press **Driver Assistance**.
3. Press **Speed Limit Assist**.
4. Press **Tolerance**.
5. Use the slider bar to select the required level.

Speed Sign Recognition

SPEED SIGN RECOGNITION – TROUBLESHOOTING

SPEED SIGN RECOGNITION – INFORMATION MESSAGES

Message	Action
Traffic Sign Reduced Performance See Manual	The traffic sign data provided by the navigation system is unavailable due to weak or no signal. Wait for a short period of time for the signal to improve. If the message continues to appear, have the system checked as soon as possible.

Speed Sign Recognition

SPEED SIGN RECOGNITION – FREQUENTLY ASKED QUESTIONS

Why does the speed limit change without any sign on the road?

The speed limit changes due to the speed limit data stored in the map data.


Why does speed sign recognition show a wrong speed limit?


The system shows a wrong speed limit due to incorrect and outdated map data or due to incorrect recognition of the speed limits by the camera.


Load Carrying


LOAD CARRYING PRECAUTIONS


Keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle provides maximum return of vehicle design performance. Before you load your vehicle, become familiar with the following terms for determining your vehicle's weight rating, with or without a trailer, from the vehicle's Tire and Loading Information label or Safety Compliance Certification label.


 **WARNING:** The appropriate loading capacity of your vehicle can be limited either by volume capacity (how much space is available) or by payload capacity (how much weight the vehicle should carry). Once you have reached the maximum payload of your vehicle, do not add more cargo, even if there is space available. Overloading or improperly loading your vehicle can contribute to loss of vehicle control and vehicle rollover.

 **WARNING:** Exceeding the Safety Compliance Certification label vehicle weight limits can adversely affect the performance and handling of your vehicle, cause vehicle damage and can result in the loss of control of your vehicle, serious personal injury or death.

 **WARNING:** Do not use replacement tires with lower load carrying capacities than the original tires because they may lower your vehicle's GVWR and GAWR limitations. Replacement tires with a higher limit than the original tires do not increase the GVWR and GAWR limitations.

 **WARNING:** Do not exceed the GVWR or the GAWR specified on the certification label.

 **WARNING:** Exceeding any vehicle weight rating can adversely affect the performance and handling of your vehicle, cause vehicle damage and can result in the loss of control of your vehicle, serious personal injury or death.

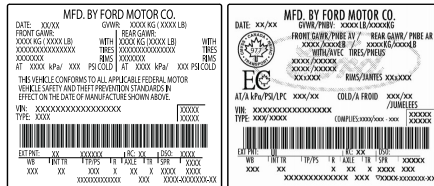
 **WARNING:** When loading the roof racks, we recommend you evenly distribute the load, as well as maintain a low center of gravity. Loaded vehicles, with higher centers of gravity, may handle differently than unloaded vehicles. Take extra precautions, such as slower speeds and increased stopping distance, when driving a heavily loaded vehicle.

The gross combined weight must never exceed the Gross Combined Weight Rating.

Load Carrying

LOCATING THE SAFETY COMPLIANCE CERTIFICATION LABELS

Safety Compliance Certification Label
Example:



The Safety Compliance Certification label is located on the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver seating position.

WHAT IS THE GROSS AXLE WEIGHT RATING

GAWR (Gross Axle Weight Rating)

GAWR is the maximum allowable weight that a single axle (front or rear) can carry. These numbers are on the Safety Compliance Certification label.

WHAT IS THE GROSS VEHICLE WEIGHT RATING

GVWR is the maximum allowable weight of the fully loaded vehicle. This includes all options, equipment, passengers and cargo. It appears on the Safety Compliance Certification label.

WHAT IS THE GROSS COMBINED WEIGHT RATING

Gross Combined Weight Rating (GCWR) is the maximum allowable weight of the vehicle and the loaded trailer, including all cargo and passengers, that the vehicle can handle without risking damage. (Important: The towing vehicle's braking system is rated for operation at Gross Vehicle Weight Rating, not at Gross Combined Weight Rating.) Separate functional brakes should be used for safe control of towed vehicles and for trailers where the Gross Combined Weight of the towing vehicle plus the trailer exceed the Gross Vehicle Weight Rating of the towing vehicle. See **Recommended Towing Weights** (page 391).

Load Carrying

CALCULATING PAYLOAD

Tire and Loading Label Information Example:



TIRE AND LOADING INFORMATION

SEATING CAPACITY TOTAL : 5 FRONT: 2 REAR: 3

The combined weight of occupants, and cargo should never exceed **385 kg or 850 lbs.**

TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION
FRONT	235/45R18 94V	235 KPA, 34 PSI	
REAR	235/45R18 94V	235 KPA, 34 PSI	
SPARE	NONE	NONE	



TIRE AND LOADING INFORMATION RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT

SEATING CAPACITY NOMBRE DE PLACES TOTAL 5 FRONT AVANT 2 REAR ARRIERE 3

The combined weight of occupants and cargo should never exceed 396 kg or 875 lbs.
Le poids total des occupants et du chargement ne doit jamais dépasser 396 kg ou 875 lbs.

TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS A FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS
FRONT AVANT	235/40R19 96V	255 KPA, 37 PSI	
REAR ARRIERE	235/40R19 96V	255 KPA, 37 PSI	
SPARE DE SECOURS	T125/80R16 97M	415 KPA, 60 PSI	

Payload is the combined weight of cargo and passengers that your vehicle is carrying. The maximum payload for your vehicle appears on the Tire and Loading label. The label is either on the B-pillar or the edge of the driver door. Vehicles exported outside the US and Canada may not have a tire and loading label. Look for “The combined weight of occupants and cargo should never exceed XXX kg or XXX lb” for maximum payload. The payload listed on the Tire and Loading Information label is the maximum payload for your vehicle as built by the assembly plant. If you install any additional equipment on your vehicle, you must determine the new payload. Subtract the weight of the equipment from the payload listed on the Tire and Loading label. When towing, trailer tongue weight or king pin weight is also part of payload.

CALCULATING THE LOAD LIMIT

Steps for determining the correct load limit:

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lb." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lb.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1,400 lb. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lb. $(1400 - 750 (5 \times 150) = 650 \text{ lb.})$
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

Load Carrying

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Helpful examples for calculating the available amount of cargo and luggage load capacity

Suppose your vehicle has a 1400-pound (635-kilogram) cargo and luggage capacity. You decide to go golfing. Is there enough load capacity to carry you, four of your friends and all the golf bags? You and four friends average 220 pounds (99 kilograms) each and the golf bags weigh approximately 30 pounds (13.5 kilograms) each. The calculation would be: $1400 - (5 \times 220) - (5 \times 30) = 1400 - 1100 - 150 = 150$ pounds. Yes, you

have enough load capacity in your vehicle to transport four friends and your golf bags. In metric units, the calculation would be: $635 \text{ kilograms} - (5 \times 99 \text{ kilograms}) - (5 \times 13.5 \text{ kilograms}) = 635 - 495 - 67.5 = 72.5$ kilograms.

Suppose your vehicle has a 1400-pound (635-kilogram) cargo and luggage capacity. You and one of your friends decide to pick up cement from the local home improvement store to finish that patio you have been planning for the past two years. Measuring the inside of the vehicle with the rear seat folded down, you have room for twelve 100-pound (45-kilogram) bags of cement. Do you have enough load capacity to transport the cement to your home? If you and your friend each weigh 220 pounds (99 kilograms), the calculation would be: $1400 - (2 \times 220) - (12 \times 100) = 1400 - 440 - 1200 = -240$ pounds. No, you do not have enough cargo capacity to carry that much weight. In metric units, the calculation would be: $635 \text{ kilograms} - (2 \times 99 \text{ kilograms}) - (12 \times 45 \text{ kilograms}) = 635 -$

$198 - 540 = -103$ kilograms. You will need to reduce the load weight by at least 240 pounds (104 kilograms). If you remove three 100-pound (45-kilogram) cement bags, then the load calculation would be: $1400 - (2 \times 220) - (9 \times 100) = 1400 - 440 - 900 = 60$ pounds. Now you have the load capacity to transport the cement and your friend home. In metric units, the calculation would be: $635 \text{ kilograms} - (2 \times 99 \text{ kilograms}) - (9 \times 45 \text{ kilograms}) = 635 - 198 - 405 = 32$ kilograms.

The above calculations also assume that the loads are positioned in your vehicle in a manner that does not overload the front or the rear gross axle weight rating specified for your vehicle on the Safety Compliance Certification label.

Load Carrying

ROOF RACK (IF EQUIPPED)

Make sure that you securely fasten the load.
Check the tightness of the load before
driving and at each fuel stop.

ROOF RACK PRECAUTIONS



WARNING: Read and follow the manufacturer's instructions when you are fitting a roof rack.




WARNING: When loading the roof racks, we recommend you evenly distribute the load, as well as maintain a low center of gravity. Loaded vehicles, with higher centers of gravity, may handle differently than unloaded vehicles. Take extra precautions, such as slower speeds and increased stopping distance, when driving a heavily loaded vehicle.


Note: *If you use a roof rack, the fuel consumption of your vehicle will be higher and you may experience different driving characteristics.*


Note: *Never place loads directly on the roof panel. The roof panel is not designed to directly carry a load.*


Luggage Compartment


LUGGAGE COMPARTMENT PRECAUTIONS

 **WARNING:** Make sure that you properly secure objects in the luggage compartment. Failure to follow this instruction could result in personal injury in the event of a sudden stop or crash.

 **WARNING:** Do not place objects on the luggage cover. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.


 **WARNING:** The appropriate loading capacity of your vehicle can be limited either by volume capacity (how much space is available) or by payload capacity (how much weight the vehicle should carry). Once you have reached the maximum payload of your vehicle, do not add more cargo, even if there is space available. Overloading or improperly loading your vehicle can contribute to loss of vehicle control and vehicle rollover.


 **WARNING:** Make sure that you fully close the liftgate to prevent exhaust fumes from entering your vehicle. If you are unable to fully close the liftgate, open the air vents or the windows to allow fresh air to enter your vehicle. Failure to follow this instruction could result in personal injury or death.

 **WARNING:** Do not exceed the maximum front and rear axle loads for your vehicle.

Note: *When loading long objects into your vehicle, for example pipes, timber or furniture, be careful not to damage the interior trim.*

INSTALLING AND REMOVING THE LUGGAGE COMPARTMENT COVER

 **WARNING:** Make sure that you properly secure the luggage cover. Failure to follow this instruction could result in personal injury in the event of a sudden stop or crash.

 **WARNING:** Do not place objects on the luggage cover. Failure to follow this instruction could result in personal injury or death in the event of a sudden stop or crash.

Installing the Luggage Cover

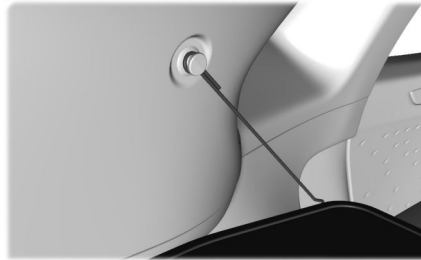
1. Insert the luggage cover.

Luggage Compartment

3. Attach the retaining cord to the luggage compartment trim panel.

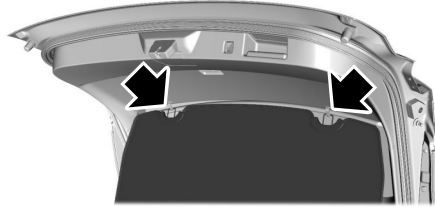
Removing the Luggage Cover

1. Open the liftgate.



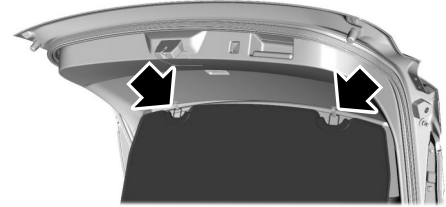
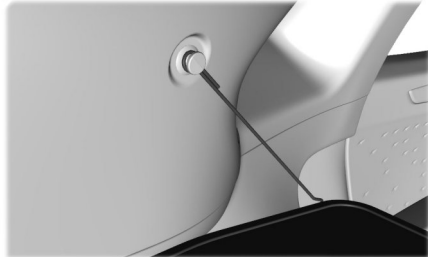
2. Detach the retaining cord on the luggage compartment trim panel.

Note: Support the luggage cover when detaching the retaining cord.



2. Insert the retaining clips into the liftgate trim panel.

Note: Make sure to support the luggage cover when inserting the retaining clips.



3. Detach the retaining clips on the liftgate trim panel.
4. Lift the luggage cover out of the liftgate.

The luggage cover can be stowed in the luggage compartment.

Luggage Compartment

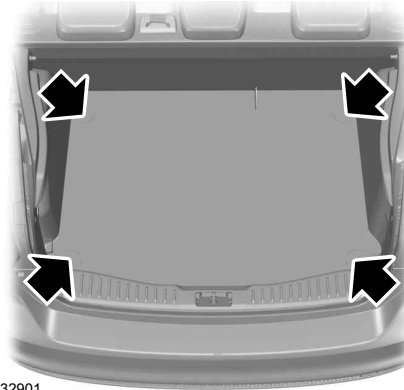
LUGGAGE COMPARTMENT ANCHOR POINTS

LUGGAGE COMPARTMENT ANCHOR POINT PRECAUTIONS



WARNING: Make sure that you properly secure objects in the luggage compartment. Failure to follow this instruction could result in personal injury in the event of a sudden stop or crash.

LOCATING THE LUGGAGE COMPARTMENT ANCHOR POINTS



E132901

Connecting a Trailer (If Equipped)

CONNECTING A TRAILER PRECAUTIONS

Do not tow a trailer until you drive your vehicle at least 1,000 mi (1,600 km).

Consult your local motor vehicle laws for towing a trailer.

See the instructions included with towing accessories for the proper installation and adjustment specifications.

Service your vehicle more frequently if you tow a trailer. See **Normal Scheduled Maintenance** (page 568).

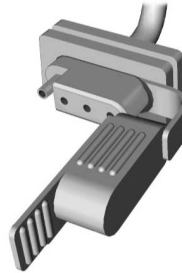
If you use a rental trailer, follow the instructions the rental agency gives you.

Account for the trailer coupler weight as part of your vehicle load when calculating the total vehicle weight.

Do not exceed the load limits. See **Calculating the Load Limit** (page 380).

CONNECTING A TRAILER

Trailer Towing Connector (If Equipped)



When attaching the trailer wiring connector to your vehicle, only use a proper fitting connector that works with the vehicle and trailer functions.

Note: *Install the waterproof protection cap back onto the trailer towing connector whenever it is not in use. This helps to prevent water damage and trailer towing connector malfunction.*

Trailer Lamps



WARNING: Never connect any trailer lamp wiring to the vehicle's tail lamp wiring; this may damage the electrical system resulting in fire. Contact your authorized dealer as soon as possible for assistance in proper trailer tow wiring installation. Additional electrical equipment may be required.

Trailer lamps are required on most towed vehicles. Make sure all running lights, brake lights, turn signals and hazard lights are working.

Hitches

Do not use a hitch that either clamps onto the bumper or attaches to the axle.

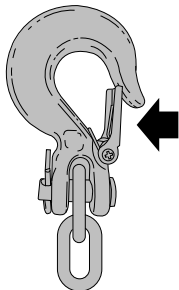
Distribute the trailer load so 10-15% of the total trailer weight is on the tongue.

Connecting a Trailer (If Equipped)

Safety Chains

Note: Do not attach safety chains to the bumper. Always connect the safety chains to the frame or hook retainers of your trailer hitch.


Install trailer safety chains to the trailer hitch as recommended by the manufacturer. Cross the chains under the trailer coupler and allow enough slack for turning tight corners. Do not allow the chains to drag on the ground.





If the trailer safety chain hook has a latch, make sure the latch is fully closed.


Towing a Trailer (If Equipped)


TOWING A TRAILER PRECAUTIONS


 **WARNING:** Do not exceed the GVWR or the GAWR specified on the certification label.

 **WARNING:** Towing trailers beyond the maximum recommended gross trailer weight exceeds the limit of your vehicle and could result in engine damage, transmission damage, structural damage, loss of vehicle control, vehicle rollover and personal injury.


 **WARNING:** Do not exceed the lowest rating capacity for your vehicle or trailer hitch. Overloading your vehicle or trailer hitch can impair your vehicle stability and handling. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.


 **WARNING:** Make sure that the vertical load on the tow ball is between the minimum and maximum recommended weight at all times. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** Do not cut, drill, weld or modify the trailer hitch. Modifying the trailer hitch could reduce the hitch rating.

 **WARNING:** The anti-lock brake system does not control the trailer brakes.

TRAILER BRAKE PRECAUTIONS

 **WARNING:** Do not connect a trailer's hydraulic brake system directly to your vehicle's brake system. Your vehicle may not have enough braking power and your chances of having a collision greatly increase.

 **WARNING:** Do not tow a trailer fitted with electric trailer brakes unless your vehicle is fitted with a compatible aftermarket electronic trailer brake controller. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death. For additional information and assistance, we recommend that you contact an authorized dealer.

Electric brakes and manual, automatic or surge-type trailer brakes are safe if you install them properly and adjust them to the manufacturer's specifications. The trailer brakes must meet local and federal regulations.

Towing a Trailer (If Equipped)

The rating for the tow vehicle's braking system operation is at the gross vehicle weight rating, not the gross combined weight rating.

Certain states require functioning trailer brakes for trailers over a specified weight. Be sure to check state regulations for this specified weight.

Ford Motor Company recommends separate functioning brake systems for trailers weighing more than 1,500 lb (680 kg) when loaded.

TOWING A TRAILER LIMITATIONS

The vehicle's load capacity designation is by weight, not by volume, so you cannot necessarily use all available space when loading a vehicle or trailer.

Note: *Your vehicle could have reduced performance when operating at high altitudes and when heavily loaded or towing a trailer. When driving at elevation, to match driving performance as perceived at sea level, reduce gross vehicle weight and gross combination weight by 2% per 1,000 ft (300 m) elevation.*

LOADING YOUR TRAILER

To help minimize how trailer movement affects your vehicle when driving:

- Load the heaviest items closest to the trailer floor.
- Load the heaviest items centered between the left and right side trailer tires.

- Load the heaviest items above the trailer axles or just slightly forward toward the trailer tongue. Do not allow the final trailer tongue weight to go above or below 10-15% of the loaded trailer weight. The trailer tongue weight should never exceed 10% of the maximum towing capacity.
- Select a ball mount with the correct rise or drop. When both the loaded vehicle and trailer are connected, the trailer frame should be level, or slightly angled down toward your vehicle, when viewed from the side.

TRAILER TOWING HINTS

Towing a trailer places an extra load on your vehicle's engine, transmission, axle, brakes, tires and suspension. Periodically inspect these components during and after any towing operation.

When driving with a trailer or payload, a slight takeoff vibration or shudder may be present due to the increased payload weight.

Towing a Trailer (If Equipped)

Your vehicle may have a temporary or conventional spare tire. A temporary spare tire is different in diameter or width, tread-type, or is from a different manufacturer than the road tires on your vehicle. Consult information on the tire label or Safety Compliance label for limitations when using.

When towing a trailer:

- Obey country specific regulations for towing a trailer.
- Do not drive faster than 70 mph (113 km/h) during the first 500 mi (800 km).
- Do not make full-throttle starts.
- Check your hitch, electrical connections and trailer wheel lug nuts thoroughly after you have traveled 50 mi (80 km).
- When stopped in congested or heavy traffic during hot weather, place the transmission in park (P) to aid engine and transmission cooling and to help A/C performance.
- Turn off the speed control with heavy loads or in hilly terrain. The speed control may turn off when you are towing on long, steep slopes.

- Shift to a lower gear when driving down a long or steep hill. Do not continuously apply the brakes, as they may overheat and become less effective.
- If your transmission has Grade Assist or Tow/Haul, use this feature when towing. This provides engine braking and helps eliminate excessive transmission shifting for optimum fuel economy and transmission cooling.
- Your vehicle has AdvanceTrac with roll stability control. When towing a trailer, additional loads could cause the AdvanceTrac system to engage during cornering maneuvers. Reduce cornering speeds to make sure that you can maintain control of the vehicle and trailer if the AdvanceTrac system engages.

- Allow more distance for stopping with a trailer attached. Anticipate stops and gradually brake.
- Avoid parking on a slope. However, if you must park on a slope, turn the steering wheel to point your vehicle tires away from traffic flow, set the parking brake, place the transmission in park (P) and place wheel chocks in front and back of the trailer wheels.

Note: *Chocks are not included with your vehicle.*

LAUNCHING OR RETRIEVING A BOAT OR PERSONAL WATERCRAFT

When backing down a ramp during boat launching or retrieval:

- Do not allow the static water level to rise above the bottom edge of the rear bumper.
- Do not allow waves to break higher than 6 in (15 cm) above the bottom edge of the rear bumper.

Towing a Trailer (If Equipped)

Exceeding 6 in (15 cm) could allow water to enter vehicle components, causing internal damage to the components and affecting driveability, emissions and reliability.

Note: Replace the rear axle lubricant anytime the rear axle has been submerged in water.

Note: Disconnect the trailer wiring connector before backing the trailer into the water.

Note: Reconnect the trailer wiring connector after removing the trailer from the water.

TOWING WEIGHTS AND DIMENSIONS

RECOMMENDED TOWING WEIGHTS

Market	Website
United States of America	https://www.fleet.ford.com/towing-guides/
Canada	https://www.fleet.ford.ca/towing-guides/

Towing a Trailer (If Equipped)

WHAT IS THE MAXIMUM LOADED TRAILER WEIGHT

The maximum loaded trailer weight is the highest possible weight of a fully loaded trailer the vehicle can tow.

CALCULATING THE MAXIMUM LOADED TRAILER WEIGHT FOR YOUR VEHICLE

1. Start with the gross combined weight rating for your vehicle model and axle ratio.
2. Subtract all of the following that apply to your vehicle:
 - Vehicle curb weight.
 - Hitch hardware weight, for example a draw bar, ball, locks or weight distributing hardware.
 - Driver weight.
 - Passenger weight.
 - Payload, cargo and luggage weight.
 - Aftermarket equipment weight.

This equals the maximum loaded trailer weight for this combination.

Note: *The trailer tongue load is considered part of the payload for your vehicle. Reduce the total payload by the final trailer tongue weight.*

Note: *Consult an authorized dealer to determine the maximum trailer weight allowed for your vehicle if you are not sure.*

Trailer Sway Control (If Equipped)

HOW DOES TRAILER SWAY CONTROL WORK

The system applies the brakes to the individual wheels and reduces engine torque to aid vehicle stability.

If the trailer begins to sway, the stability control lamp flashes and the message **Trailer Sway Reduce Speed** appears in the information display.

Stop your vehicle as soon as it is safe to do so. Check the vertical weight on the tow ball and trailer load distribution.

TRAILER SWAY CONTROL PRECAUTIONS



WARNING: Turning off trailer sway control increases the risk of loss of vehicle control, serious injury or death. Ford does not recommend disabling this feature except in situations where speed reduction may be detrimental (such as hill climbing), the driver has significant trailer towing experience, and can control trailer sway and maintain safe operation.

Note: *This feature only activates when significant trailer sway occurs.*

Note: *This feature does not prevent trailer sway, but reduces it once it begins.*

Note: *This feature cannot stop all trailers from swaying.*

Note: *In some cases, if vehicle speed is too high, the system may activate multiple times, gradually reducing vehicle speed.*

Driving Hints

COLD WEATHER PRECAUTIONS

The functional operation of some components and systems can be affected at temperatures below approximately -13°F (-25°C).

DRIVING ON SNOW AND ICE



WARNING: If you are driving in slippery conditions that require tire chains or cables, then it is critical that you drive cautiously. Keep speeds down, allow for longer stopping distances and avoid aggressive steering to reduce the chances of a loss of vehicle control which can lead to serious injury or death. If the rear end of your vehicle slides while cornering, steer in the direction of the slide until you regain control of your vehicle.

On ice and snow, you should drive more slowly than usual. Your vehicle has a four wheel anti-lock brake system, do not pump the brake pedal. See **Anti-Lock Braking System Limitations** (page 268).

In snow and ice, all-wheel drive vehicles have advantages over two-wheel drive vehicles but can still skid. When driving on snowy or icy roads, should you start to slide, turn the steering wheel in the direction of the slide until you regain control.

On snow and ice, avoid suddenly applying power and avoid quick change of direction. Apply the accelerator slowly and steadily when starting from a stop.

Avoid sudden braking. An all-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in snow and ice. However, an all-wheel drive vehicle will not stop any faster, as braking occurs at all four wheels. Do not become overconfident to road conditions.

BREAKING-IN

You need to break in new tires for approximately 300 mi (480 km). During this time, your vehicle may exhibit some unusual driving characteristics.

DRIVING ECONOMICALLY

The following helps to improve fuel consumption:

- Drive smoothly, accelerate gently and anticipate the road ahead to avoid heavy braking.
- Regularly check your tire pressures and make sure that they are inflated to the correct pressure.
- Follow the recommended maintenance schedule and carry out the recommended checks.
- Plan your journey and check the traffic before you set off. It is more efficient to combine errands into a single trip whenever possible.
- Avoid idling the engine in cold weather or for extended periods. Start the engine only when you are ready to set off.
- Do not carry unnecessary weight in your vehicle as extra weight wastes fuel.

Driving Hints

- Do not add unnecessary accessories to the exterior of your vehicle, for example running boards. If you use a roof rack, remember to fold it down or remove it when not in use.
- Do not shift into neutral when you are braking or when your vehicle is slowing down.
- Shut all windows when driving at high speeds.
- Switch off all electric systems when not in use, for example air conditioning. Make sure that you unplug any accessories from the auxiliary power points when not in use.

DRIVING IN SPECIAL CONDITIONS

DRIVING THROUGH MUD AND WATER

Mud

Be cautious of sudden changes in vehicle speed or direction when you are driving in mud. Even all-wheel drive and four-wheel drive vehicles can lose traction in mud. If your vehicle slides, steer in the direction of the slide until you regain control of your vehicle. After driving through mud, clean off residue stuck to rotating driveshafts and tires. Excess residue can cause an imbalance that could damage drive components.

Note: *If your vehicle gets stuck in mud, it could be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.*

Note: *Do not rock your vehicle if the engine is not at normal operating temperature, as damage to the transmission could occur.*

Note: *Do not rock your vehicle for more than a minute, as damage to the transmission and tires could occur or the engine could overheat.*

Water

If you must drive through water approach it cautiously. See **Driving Through Shallow Water** (page 396).

DRIVING ON HILLY OR SLOPING TERRAIN



WARNING: Extreme care should be used when steering the vehicle in reverse down a slope so as not to cause the vehicle to swerve out of control.

Although natural obstacles could make it necessary to travel diagonally up or down a hill or steep incline, you should try to drive straight up or straight down.

Driving Hints

Note: *Avoid turning on steep slopes or hills. A danger lies in losing traction, slipping sideways and possible vehicle rollover. Whenever driving on a hill, determine beforehand the route you can use. Do not drive over the crest of a hill without seeing what conditions are on the other side. Do not drive in reverse over a hill without the aid of an observer.*

Apply just enough power to the wheels to climb the hill. Too much power causes the tires to slip, spin or lose traction, and you could lose control of your vehicle. When descending a steep hill, do not descend the hill in neutral. Avoid sudden hard braking to keep the front wheels rolling and to maintain your vehicle's steering.

Note: *Your vehicle has anti-lock brakes, apply the brakes steadily. Do not pump the brakes.*

DRIVING IN SAND

When driving over sand, try to keep all four wheels on the most solid area of the trail. Steadily drive through the terrain. Apply the accelerator slowly and avoid excessive wheel slip. Do not drive your vehicle in deep sand for an extended period of time. This could overheat the system. A message appears in the instrument cluster display.

Note: *If your vehicle gets stuck driving on hilly or sloping terrain, it could be rocked out by shifting between forward and reverse gears, stopping between shifts in a steady pattern. Press lightly on the accelerator in each gear.*

Note: *Do not rock your vehicle if the engine is not at normal operating temperature, as damage to the transmission could occur.*

Note: *Do not rock your vehicle for more than a minute, as damage to the transmission and tires could occur or the engine could overheat*

DRIVING THROUGH SHALLOW WATER



WARNING: Do not attempt to cross a deep or flowing body of water. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

Note: *Driving through standing water can cause vehicle damage.*

Note: *Engine damage can occur if water enters the air filter.*

Before driving through standing water, check the depth. Never drive through water that is higher than the bottom of the front rocker area of your vehicle.

Driving Hints




When driving through standing water, drive very slowly and do not stop your vehicle. Your brake performance and traction could be limited. After driving through water and as soon as it is safe to do so:


- Lightly press the brake pedal to dry the brakes and to check that they work.
- Turn the steering wheel to check that the steering power assist works.


Check the function of the following:


- Horn
- Exterior lights


FLOOR MATS

 **WARNING:** Use a floor mat designed to fit the footwell of your vehicle that does not obstruct the pedal area. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** Pedals that cannot move freely can cause loss of vehicle control and increase the risk of serious personal injury.

 **WARNING:** Secure the floor mat to both retention devices so that it cannot slip out of position and interfere with the pedals. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** Do not place additional floor mats or any other covering on top of the original floor mats. This could result in the floor mat interfering with the operation of the pedals. Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.

 **WARNING:** Always make sure that objects cannot fall into the driver foot well while your vehicle is moving. Objects that are loose can become trapped under the pedals causing a loss of vehicle control.



Driving Hints

To install floor mats that have eyelets, position the floor mat eyelet over the retention post and press down to lock in position. Repeat for all eyelets on the floor mat.

To remove the floor mats, reverse the installation procedure.

Note: *Regularly check the floor mats to make sure they are secure.*

Crash and Breakdown Information

ROADSIDE ASSISTANCE

Vehicles Sold in the United States: Getting Roadside Assistance

If you have a vehicle concern, Lincoln offers a complimentary roadside assistance program. This program is separate from the New Vehicle Limited Warranty.

The service is available:

- Throughout the life of the vehicle for original owners.
- For six years or 70,000 mi (110,000 km), whichever comes first, for subsequent owners.

Roadside Assistance covers:

- A flat tire change with a good spare. For vehicles with an unusable tire inflation kit, we provide towing service.
- Battery jump start.
- Lock-out assistance - key replacement cost is the client's responsibility.

- Fuel delivery — independent service contractors, if not prohibited by state, local or municipal law shall deliver up to 2 gal (8 L) of gasoline fuel to a disabled vehicle. Roadside Assistance limits fuel delivery service to two no-charge occurrences within a 12-month period.
- Winch out — available within 100 ft (30 m) of a paved or county maintained road, no recoveries.

- Towing — independent service contractors, if not prohibited by state, local or municipal law shall tow Lincoln eligible vehicles to the client's selling or preferred dealer within 100 mi (160 km) of the disablement location or to the nearest Lincoln dealer. If a client requests a tow to a selling or preferred dealer that is more than 100 mi (160 km) from the disablement location, the client is responsible for any mileage costs in excess of 100 mi (160 km).
- Roadside Assistance includes up to \$200 for a towed trailer if the disabled eligible vehicle requires service at the nearest authorized dealer. If the towing vehicle is operational but the trailer is not, then the trailer does not qualify for any roadside services.

Vehicles Sold in the United States: Using Roadside Assistance

United States clients who require roadside assistance, call 1-800-521-4140 or contact Roadside Assistance using the Lincoln Way mobile app.

Crash and Breakdown Information

If you need to arrange roadside assistance on your own, Lincoln reimburses a reasonable amount for towing to the nearest Lincoln dealership within 100 mi (160 km). To obtain reimbursement information, United States clients, call 1-800-521-4140. Clients need to submit their original receipts.

Vehicles Sold in Canada: Getting Roadside Assistance

If you have a vehicle concern, Lincoln offers a complimentary roadside assistance program. This program is eligible within Canada or the continental United States.

The service is available 24 hours a day, seven days a week.

This program is separate from the New Vehicle Limited Warranty, beginning from the original warranty start date and lasts the life of the vehicle for the original owner. Subsequent owners receive coverage that is concurrent with the 6 years or 70,000 mi (110,000 km), whichever occurs first, powertrain warranty coverage period.

Note: *Canadian roadside coverage and benefits may differ from the U.S. coverage.*

For complete program coverage details, review your warranty guide, contact your dealer, call us in Canada at 1-844-665-2007, or visit our website at www.lincolncanada.com.

If you purchased your vehicle in Canada and require roadside assistance, please call 1-844-665-2007 or contact Roadside Assistance using the Lincoln Way mobile app.

Note: *For quick reference, complete the roadside assistance identification card found in the glove compartment of your vehicle and place it in your wallet.*

HIGH VOLTAGE BATTERY VEHICLE PRECAUTIONS - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

In the event of damage or fire involving an electric vehicle or hybrid-electric vehicle:

- Assume the high-voltage battery and associated components are energized and fully charged.
- Exposed electrical components, wires and high-voltage batteries present potential high-voltage shock hazards.
- Venting high-voltage battery vapors are potentially toxic and flammable.
- Physical damage to the vehicle or high-voltage battery could result in immediate or delayed release of toxic, flammable gases and fire.

Vehicle information and general safety practices include reviewing the owner's manual and becoming familiar with your vehicle's safety information and recommended safety practices.

Crash and Breakdown Information

Crashes

A crash or impact significant enough to require an emergency response for conventional vehicles would also require the same response for an electric or hybrid-electric vehicle.

If Possible:

1. Move your vehicle to a safe, nearby location and remain on the scene.
2. Roll down the windows before you switch your vehicle off.
3. Place your vehicle in park (P), set the parking brake, switch off the vehicle, activate the hazard flashers and move your key(s) at least 16 ft (5 m) away from the vehicle.

Always:

- Call emergency assistance if needed and advise that an electric or hybrid-electric vehicle is involved.
- Avoid contact with leaking fluids and gases, and remain out of the way of oncoming traffic until emergency responders arrive.
- When emergency responders arrive, tell them that the vehicle involved is an electric vehicle or hybrid-electric vehicle.

Fires

As with any vehicle, call emergency assistance immediately if you see sparks, smoke or flames coming from the vehicle. Remain a safe distance from the vehicle and try to stay clear of the smoke.

1. Exit the vehicle immediately.
2. Advise emergency assistance that an electric or hybrid-electric vehicle is involved.
3. As with any vehicle fire, do not inhale smoke, vapors or gas from the vehicle, as they may be hazardous.

Post-Incident

1. Do not store a severely damaged vehicle with a lithium-ion battery inside a structure or within 49 ft (15 m) of any structure or vehicle.
2. Make sure that passenger and luggage compartments remain ventilated.
3. Call emergency assistance if you observe leaking fluids, sparks, smoke or flames, or hear gurgling or bubbling from the high-voltage battery.

SWITCHING THE HAZARD FLASHERS ON AND OFF



The hazard flasher button is on the instrument panel. Press the button to switch the hazard flashers on if your vehicle is creating a safety hazard for other road users.

When you switch the hazard flashers on, all front and rear direction indicators flash.

Crash and Breakdown Information

Note: The hazard flashers operate when the ignition is in any position, or if the key is not in the ignition. The battery loses charge and could have insufficient power to restart your vehicle.

Press the button again to switch them off.

JUMP STARTING THE VEHICLE

JUMP STARTING PRECAUTIONS



WARNING: Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide correct ventilation.



WARNING: Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Shield your eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes and get prompt medical attention. If acid is swallowed, call a physician immediately.



WARNING: Use only adequately sized cables with insulated clamps.



WARNING: Make sure that the cables are clear of any moving parts and fuel delivery system parts.



WARNING: Connect batteries with only the same nominal voltage.



WARNING: If the engine is running while the hood is open, stay clear of moving engine components. Failure to follow this warning could result in serious personal injury or death.

Do not attempt to push-start an automatic transmission vehicle. This could cause transmission damage.

Do not disconnect the battery of the disabled vehicle. This could damage your vehicle's electrical system.

PREPARING THE VEHICLE

Use only a 12 volt supply to start your vehicle.

Park the booster vehicle close to the hood of the disabled vehicle, making sure the two vehicles do not touch.

JUMP STARTING THE VEHICLE - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

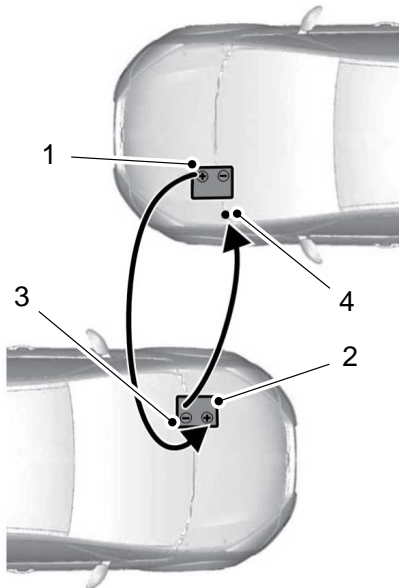
Connecting the Jumper Cables



WARNING: Do not connect the negative jumper cable to any other part of your vehicle. Use the ground point.

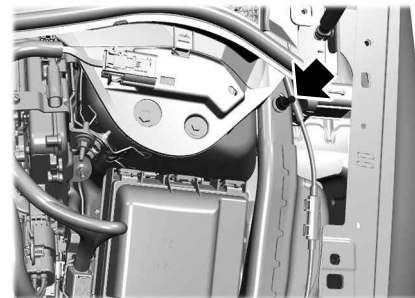
Crash and Breakdown Information

Note: If you are using a jump pack or booster box, follow the manufacturer's instructions.



E142664

1. Pull the red rubber boot backward. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.
2. Connect the other end of the positive (+) jumper cable to the positive (+) terminal of the booster vehicle battery.
3. Connect the negative (-) jumper cable to the negative (-) terminal of the booster vehicle battery.
4. Make the final connection of the negative (-) jumper cable to an exposed metal part of the disabled vehicle's engine, as shown in the following illustration, away from the battery and fuel injection system, or connect the negative (-) jumper cable to a ground connection point if available.



Starting the Engine

1. Start the engine of the booster vehicle and moderately rev the engine, or gently press the accelerator to keep the engine speed between 2000 RPM and 3000 RPM, as shown in your tachometer.
2. Start the engine of the disabled vehicle.
3. Once you start the disabled vehicle, run both vehicle engines for an additional three minutes before disconnecting the jumper cables.

Crash and Breakdown Information

Removing the Jumper Cables

Remove the jumper cables in the reverse order that they were connected.

Note: Do not switch the headlamps on when disconnecting the cables. The peak voltage could blow the bulbs.

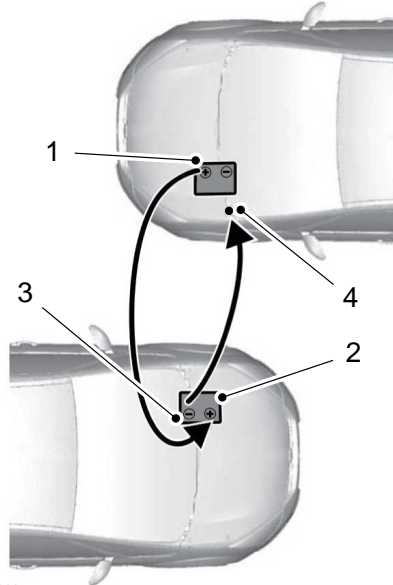
JUMP STARTING THE VEHICLE - GASOLINE

Connecting the Jumper Cables



WARNING: Do not connect the negative jumper cable to any other part of your vehicle. Use the ground point.

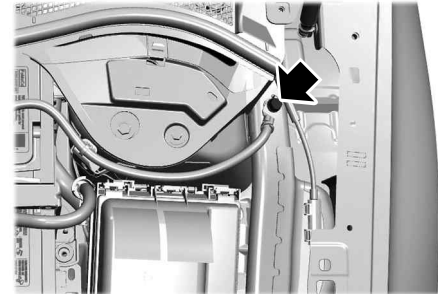
Note: If you are using a jump pack or booster box, follow the manufacturer's instructions.



E142664

1. Pull the red rubber boot backward. Connect the positive (+) jumper cable to the positive (+) terminal of the discharged battery.

2. Connect the other end of the positive (+) jumper cable to the positive (+) terminal of the booster vehicle battery.
3. Connect the negative (-) jumper cable to the negative (-) terminal of the booster vehicle battery.
4. Make the final connection of the negative (-) jumper cable to an exposed metal part of the disabled vehicle's engine, as shown in the following illustration, away from the battery and fuel injection system, or connect the negative (-) jumper cable to a ground connection point if available.



Crash and Breakdown Information

Starting the Engine

1. Start the engine of the booster vehicle and moderately rev the engine, or gently press the accelerator to keep the engine speed between 2000 RPM and 3000 RPM, as shown in your tachometer.
2. Start the engine of the disabled vehicle.
3. Once you start the disabled vehicle, run both vehicle engines for an additional three minutes before disconnecting the jumper cables.

Removing the Jumper Cables

Remove the jumper cables in the reverse order that they were connected.

Note: Do not switch the headlamps on when disconnecting the cables. The peak voltage could blow the bulbs.

POST-CRASH ALERT SYSTEM

WHAT IS THE POST-CRASH ALERT SYSTEM

The system helps draw attention to your vehicle in the event of a serious impact.

HOW DOES THE POST-CRASH ALERT SYSTEM WORK

The system is designed to turn the hazard flashers on, turn the courtesy lamps on, intermittently sound the horn and unlock all doors in the event of a serious impact that deploys an airbag or the seatbelt pretensioners.

POST-CRASH ALERT SYSTEM LIMITATIONS

Depending on applicable laws in the country your vehicle was built for, the horn does not sound in the event of a serious impact.

SWITCHING THE POST-CRASH ALERT SYSTEM OFF

Press the hazard flasher switch, the unlock button on the remote control, the panic button on the remote control or cycle the ignition to switch the system off.

Note: The alert turns off when the vehicle battery runs out of charge.

POST IMPACT BRAKING

HOW DOES POST IMPACT BRAKING WORK

In the event of a moderate to severe crash, the braking system reduces the vehicle's speed to prevent or reduce the impact of a potential secondary crash.

POST IMPACT BRAKING LIMITATIONS

Post impact braking does not activate if any of the following occur:

Crash and Breakdown Information

- The anti-lock braking system is damaged during the collision.
- Electronic stability control is disabled.
- Vehicle speed is below 5 mph (10 km/h).

OVERRIDING POST IMPACT BRAKING

You can override post impact braking by pressing the brake or accelerator pedal.

POST IMPACT BRAKING INDICATORS



It flashes when a post impact braking event is occurring.

AUTOMATIC CRASH SHUTOFF

WHAT IS AUTOMATIC CRASH SHUTOFF

The automatic crash shutoff is designed to stop the fuel going to the engine in the event of a moderate or severe crash.

Note: *Not every impact causes a shutoff.*

AUTOMATIC CRASH SHUTOFF PRECAUTIONS



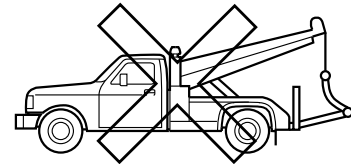
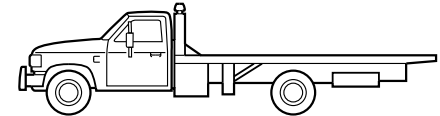
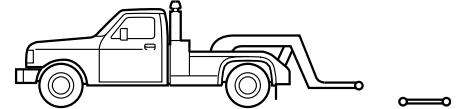
WARNING: If your vehicle has been involved in a crash, have the fuel system checked. Failure to follow this instruction could result in fire, personal injury or death.

RE-ENABLING YOUR VEHICLE

1. Switch the ignition off.
2. Attempt to start your vehicle.
3. Switch the ignition off.
4. Attempt to start your vehicle.

Note: *If your vehicle does not start after the third attempt, have your vehicle checked as soon as possible.*

TRANSPORTING THE VEHICLE



Crash and Breakdown Information

If you need to tow your vehicle, contact a professional towing service or your roadside assistance service provider.

Your manufacturer produces a towing manual for all authorized tow truck operators. Have your tow truck operator refer to this manual for proper hook-up and towing procedures.

We recommend the use of a wheel lift and dollies or flatbed equipment to tow your vehicle. Vehicle damage could occur if towed incorrectly, or by any other means.

Front-wheel and rear-wheel drive vehicles must have their designated drive wheels off the ground regardless of towing direction. Use tow dollies to prevent damage to the transmission.

All-wheel or four-wheel drive vehicles require that all wheels be off the ground using a wheel lift and dollies or flatbed equipment. This prevents damage to the transmission and drive system.

Note: *You need to switch on the ignition to unlock the steering.*

Note: *Make sure you check the steering column before towing. It could lock if the battery is dead.*

FAIL-SAFE COOLING

WHAT IS FAIL-SAFE COOLING

Fail-safe cooling allows you to temporarily drive your vehicle before any incremental component damage occurs due to overheating.

The fail-safe distance depends on outside temperature, vehicle load and terrain.

HOW DOES FAIL-SAFE COOLING WORK

If the engine reaches a preset over-temperature condition, the engine automatically switches to alternating cylinder operation. Each disabled cylinder acts as an air pump and cools the engine.

When this occurs, your vehicle still operates, however:

- Engine power is limited.
- The air conditioning system turns off.

Continued operation increases the engine temperature, causing the engine to completely shut down. Your steering and braking effort increases in this situation.

When the engine temperature cools, you can re-start the engine.

Note: *Have your vehicle checked as soon as possible to minimize engine damage.*

DRIVING WHEN FAIL-SAFE MODE IS ACTIVATED



WARNING: Fail-safe mode is for use during emergencies only. Operate your vehicle in fail-safe mode only as long as necessary to bring your vehicle to rest in a safe location and seek immediate repairs. When in fail-safe mode, your vehicle will have limited power, will not be able to

Crash and Breakdown Information

maintain high-speed operation, and may completely shut down without warning, potentially losing engine power, power steering assist, and power brake assist, which may increase the possibility of a crash resulting in serious injury.



WARNING: Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.

Continued operation increases the engine temperature, causing the engine to completely shut down. Your steering and braking effort increases in this situation.

When the engine temperature cools, you can re-start the engine. Have your vehicle checked as soon as possible to minimize engine damage.

Your vehicle has limited engine power when in the fail-safe mode, drive your vehicle with caution. Your vehicle does not maintain high-speed operation and the engine may operate poorly.

Remember that the engine is capable of automatically shutting down to prevent engine damage. In this situation:

1. Pull off the road as soon as safely possible and switch the engine off.
2. If you are a member of a roadside assistance program, we recommend that you contact your roadside assistance service provider.
3. If this is not possible, wait for a short period of time for the engine to cool.
4. Check the coolant level. If the coolant level is at or below the minimum mark, add prediluted coolant immediately.
5. When the engine temperature cools, you can re-start the engine. Have your vehicle checked as soon as possible to minimize engine damage.

Note: *Driving your vehicle without repair increases the chance of engine damage.*

FAIL-SAFE COOLING INDICATORS



If the engine begins to overheat, the coolant temperature gauge moves toward the red zone.



A warning lamp illuminates and a message may appear in the instrument cluster display.

Towing Your Vehicle

TOWING YOUR VEHICLE PRECAUTIONS

Use the following guidelines when towing your vehicle. Failure to follow this instruction could result in vehicle damage not covered by the vehicle warranty.

Note: Make sure you properly secure your vehicle to the tow vehicle.

Note: If you are unsure of the vehicle's configuration, contact an authorized dealer.

RECREATIONALLY TOWING YOUR VEHICLE - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Follow these guidelines if you have a need for recreational towing. An example of recreational towing is towing your vehicle behind a motorhome. These guidelines ensure that you do not damage the transmission.

Note: Put your climate control system in recirculated air mode to prevent exhaust fumes from entering your vehicle. See **Climate Control** (page 168).

You can tow your vehicle with all four wheels on the ground under the following conditions:

- You switch **Neutral Tow** on.
- Your vehicle is facing forward for towing in a forward direction.
- You release the parking brake.
- You do not exceed 70 mph (113 km/h).

Switching **Neutral Tow** On

1. Switch your vehicle on in accessory mode.
2. Press the menu button on the steering wheel to enter the information display main menu.
3. Select **Settings**.
4. Select **Neutral Tow**.
5. Follow the instructions on the information display.
6. Fully press the brake pedal.

7. Shift into neutral (N).

8. Switch the ignition off.

Note: Switching neutral tow on requires battery power.

Note: If the parking brake is applied, a message appears in the information display.

Note: If your vehicle has an ignition key, you cannot remove the key from the ignition when the transmission is in neutral (N) and your vehicle is off.

Note: Start the engine and allow it to run for a few minutes at the beginning of each day, and every six hours or fewer. With the engine running and your foot on the brake, shift into drive (D) and then into reverse (R) before shifting back into neutral (N). Before continuing to tow, switch neutral tow on.

Towing Your Vehicle

RECREATIONALLY TOWING YOUR VEHICLE - GASOLINE, AWD

You cannot recreational tow your vehicle with all wheels on the ground because vehicle or transmission damage could occur. You must recreational tow your vehicle with all four wheels off the ground, such as when using a car-hauling trailer. Otherwise, you cannot recreational tow your vehicle.

RECREATIONALLY TOWING YOUR VEHICLE - GASOLINE, FWD

You cannot recreational tow your vehicle with all wheels on the ground because vehicle or transmission damage could occur. Place the front wheels on a two-wheel tow dolly. If you are using a tow dolly, follow the instructions specified by the equipment provider.

Note: Release the parking brake before towing your vehicle. See **Manually Releasing the Electric Parking Brake** (page 272).

EMERGENCY TOWING - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

If your vehicle becomes inoperable without access to wheel dollies or a vehicle transport trailer, it can be flat-towed with all wheels on the ground, regardless of the powertrain and transmission configuration, under the following conditions:

- Your vehicle is facing forward for towing in a forward direction.
- You switch **Neutral Tow** on.
- You release the parking brake.
- Maximum speed is 35 mph (55 km/h).
- Maximum distance is 50 mi (80 km).

Switching Neutral Tow On

1. Switch your vehicle on in accessory mode.
2. Press the menu button on the steering wheel to enter the instrument cluster display main menu.
3. Select **Settings**.

4. Select **Neutral Tow**.
5. Follow the instructions on the information display.
6. Fully press the brake pedal.
7. Shift into neutral (N).
8. Switch the ignition off.

Note: Failure to follow these instructions could result in damage to the transmission.

Note: Switching neutral tow on requires battery power.

Note: Put your climate control system in recirculated air mode to prevent exhaust fumes from entering your vehicle. See **Climate Control** (page 168).

Switching Neutral Tow Off

1. Switch your vehicle on in accessory mode.
2. Fully press the brake pedal.
3. Shift into park (P).

Towing Your Vehicle

EMERGENCY TOWING - GASOLINE

If you need to tow your vehicle, contact a

professional towing service or, if you are a member of a roadside assistance program, your roadside assistance service provider.


TOWING YOUR VEHICLE – TROUBLESHOOTING


TOWING YOUR VEHICLE – INFORMATION MESSAGES - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)


Message	Description
Neutral Tow Engaged Turn Ignition Off for Towing	Reminder to switch off the ignition when in neutral tow.
Neutral tow engaged Depress Brake and Select Park to Exit Neutral Tow	Displays when neutral tow is active and you want to exit neutral tow.
Neutral Tow Remove Park Brake for Towing	Reminder to remove park brake when in neutral tow.
Neutral Tow Disengaged	Displays when the neutral tow is off.
Neutral Tow Enabled Leave Transmission in Neutral	Displays when neutral tow is on.

Fuses

FUSE PRECAUTIONS

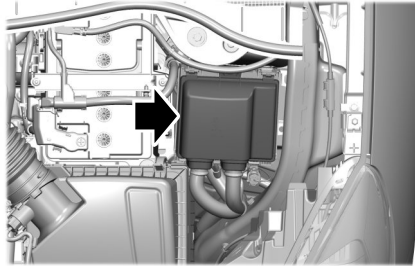
 **WARNING:** Always disconnect the battery before servicing high current fuses.

 **WARNING:** To reduce risk of electrical shock, always replace the cover to the power distribution box before reconnecting the battery or refilling fluid reservoirs.

 **WARNING:** Always replace a fuse with one that has the specified amperage rating. Using a fuse with a higher amperage rating can cause severe wire damage and could start a fire.

UNDER HOOD FUSE BOX

LOCATING THE UNDER HOOD FUSE BOX

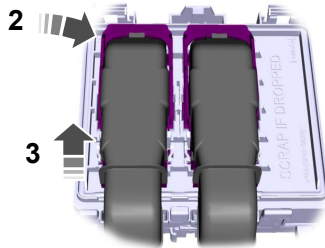


ACCESSING THE UNDER HOOD FUSE BOX



1. Pull the latch toward you and remove the top cover.

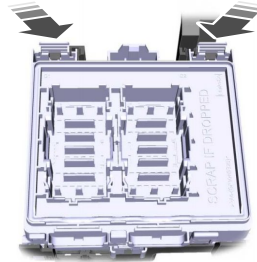
Fuses



E253689

2. Pull the connector lever upward.

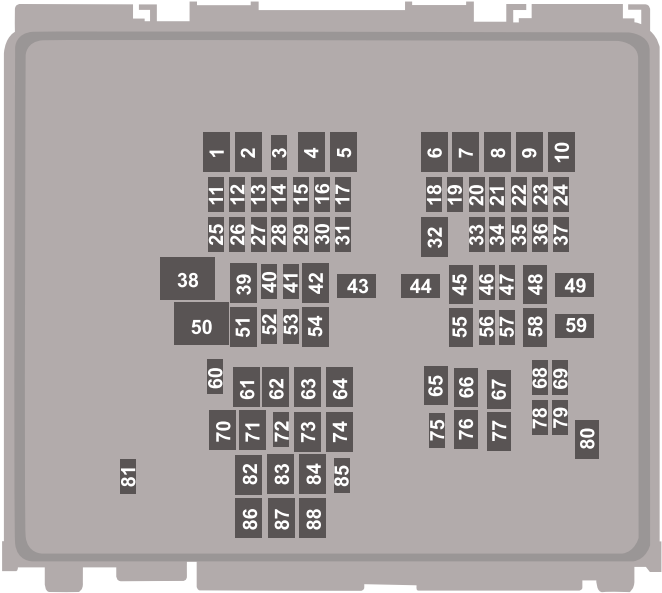
3. Pull the connector upward to remove it.



4. Pull both latches toward you and remove the fuse box.
5. Turn the fuse box over and open the lid.

Fuses

IDENTIFYING THE FUSES IN THE UNDER HOOD FUSE BOX



Fuses

Item	Rating	Protected Component
1	—	Not used.
2	30 A	Rear defrost.
3	10 A	Not used (spare).
4	50 A	Electric water pump (hybrid).
5	—	Not used.
6	—	Not used.
7	40 A	Driveline control module.
8	—	Not used.
9	30 A	Second row seat release.
10	—	Not used.
11	15 A	Powertrain control module.
12	15 A	Powertrain control module.
13	15 A	Powertrain control module.
14	15 A	Powertrain control module.
15	10 A	Vehicle dynamics module.

Fuses

Item	Rating	Protected Component
16	—	Not used.
17	15 A	Heated wiper park.
18	10 A	Air conditioning clutch.
19	10 A	Not used (spare).
20	5 A	DC/DC converter (hybrid).
21	10 A	Battery charge control module (hybrid).
22	5 A	Not used (spare).
23	5 A	Charge port light ring (hybrid).
24	5 A	Battery electronic control module (hybrid).
25	25 A	Left-hand enhanced exterior lighting module.
26	25 A	Right-hand enhanced exterior lighting module.
27	5 A	Powertrain control module (hybrid).
28	10 A	Anti-lock brake system module.
29	10 A	Powertrain control module.
30	10 A	Electronic stability control. Transmission oil pump.

Fuses

Item	Rating	Protected Component
31	5 A	Electronic power assist steering.
32	30 A	Body control module.
33	20 A	Advanced Driver Assistance System (ADAS).
34	10 A	Headlamp leveling.
35	15 A	Heated steering wheel.
36	10 A	Powertrain control module (hybrid).
37	20 A	Horn.
38	40 A	Blower motor.
39	—	Not used.
40	5 A	USB smart charger.
41	20 A	Amplifier.
42	30 A	Driver power seat.
43	40 A	Anti-lock brake control valves.
44	40 A	Not used (spare).
45	30 A	Passenger power seat.
46	20 A	Not used (spare).

Fuses

Item	Rating	Protected Component
47	20 A	Heated seats.
48	30 A	Power liftgate.
49	60 A	Anti-lock brake control pump.
50	60 A	Cooling fan.
51	30 A	Moonroof.
52	5 A	USB charge port - rear console.
53	5 A	USB charge port - rear console.
54	20 A	Rear heated seat module.
55	30 A	Starter motor.
56	20 A	Amplifier.
57	10 A	Data link connector.
58	30 A	Climate controlled seat module.
59	40 A	Body control module.
60	20 A	Rear window washer pump.
61	—	Not used.
62	—	Not used.

Fuses

Item	Rating	Protected Component
63	—	Not used.
64	—	Not used.
65	—	Not used.
66	—	Not used.
67	—	Not used.
68	5 A	Mass air flow and intake air temperature sensor.
69	15 A	Port fuel injectors.
70	20 A	Rear cargo power point.
71	20 A	Rear console power point.
72	20 A	Rear window wiper.
73	—	Not used.
74	30 A	Windshield wiper motor.
75	20 A	Not used (spare).
76	—	Not used.
77	—	Not used.

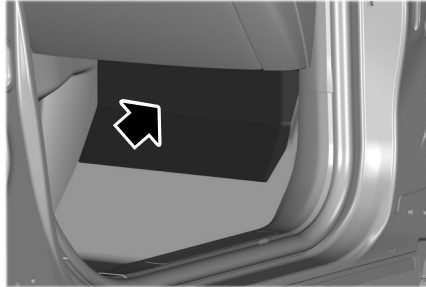
Fuses

Item	Rating	Protected Component
78	15 A	Multi-contour seats.
79	10 A	Not used (spare).
80	20 A	Fuel pump.
81	—	Not used.
82	40 A	Not used (spare).
83	—	Not used.
84	40 A	Auxiliary power distribution box (hybrid).
85	5 A	Rain sensor.
86	—	Not used.
87	—	Not used.
88	—	Not used.

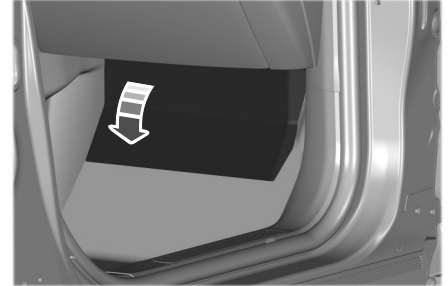
Fuses

BODY CONTROL MODULE FUSE BOX

LOCATING THE BODY CONTROL MODULE FUSE BOX

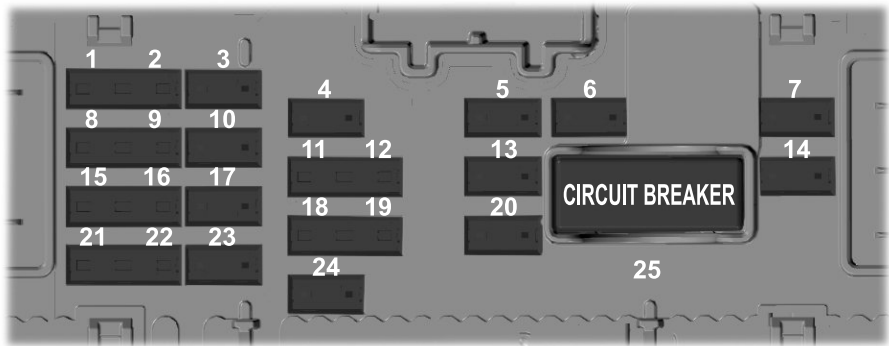


ACCESSING THE BODY CONTROL MODULE FUSE BOX



Fuses

IDENTIFYING THE FUSES IN THE BODY CONTROL MODULE FUSE BOX



Item	Rating	Protected Component
1	5 A	Not used.
2	5 A	Rear heated seats. Air quality sensor. Particulate matter sensor.
3	10 A	Not used (spare).
4	10 A	Integrated control panel.

Fuses

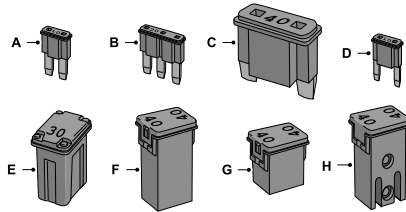
Item	Rating	Protected Component
		Center stack display. Gateway module.
5	20 A	Lock. Unlock.
6	10 A	Moonroof.
7	30 A	Passenger door module.
8	5 A	Driveline control module.
9	5 A	Electrochromatic mirror.
10	10 A	Extended power module.
11	5 A	Power liftgate. Hands-free liftgate actuation module. Telematics control unit module.
12	5 A	Keyless keypad switch. Heads up display.
13	15 A	Driver door lock.
14	30 A	Driver door module.
15	15 A	Extended power module.
16	15 A	Not used (spare).

Fuses

Item	Rating	Protected Component
17	15 A	SYNC. RF transceiver module.
18	7.5 A	Driver power seat switch. Passenger power seat switch. Wireless accessory charging module. Selectable drive mode switch. Driver state monitor.
19	7.5 A	Headlamp switch pack. Telematics control unit module. Bluetooth low energy module.
20	10 A	Not used (spare).
21	7.5 A	Climate control. E-shifter module.
22	7.5 A	Instrument cluster. Steering column control module.
23	20 A	Audio unit.
24	20 A	Not used (spare).
25	30 A	Not used (spare).

Fuses

IDENTIFYING FUSE TYPES



- A Micro 2.
- B Micro 3.
- C Maxi.
- D Mini.
- E M Case.
- F J Case.
- G J Case Low Profile.
- H Slotted M Case.

FUSES – TROUBLESHOOTING

FUSES – FREQUENTLY ASKED QUESTIONS

When do I need to check a fuse?

If electrical components in the vehicle are not working.

When do I need to replace a fuse?

If a fuse has blown.

How do I identify a blown fuse?

You can identify a blown fuse by a broken wire within the fuse.

Maintenance

MAINTENANCE PRECAUTIONS

Service your vehicle regularly to help maintain its roadworthiness and resale value. There is a large network of authorized dealers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialized tools developed specifically for servicing your vehicle.

If your vehicle requires professional service, an authorized dealer can provide the necessary parts and service. Check your warranty information to find out which parts and services are covered.

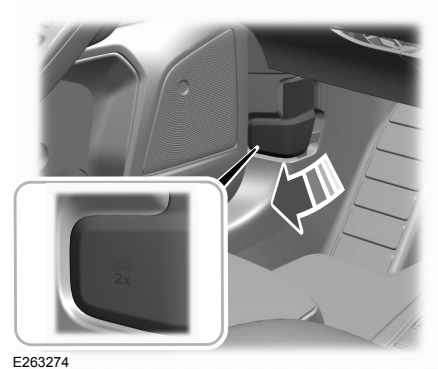
Use only recommended fuels, lubricants, fluids and service parts conforming to specifications. See **Capacities and Specifications** (page 495).

- Do not work on a hot engine.
- Make sure that nothing gets caught in moving parts.

- Do not work on a vehicle with the engine running in an enclosed space, unless you are sure you have enough ventilation.
- Keep all open flames and other burning material, such as cigarettes, away from the battery and all fuel related parts.
- Set the parking brake, shift the transmission to park (P) and block the wheels.

OPENING AND CLOSING THE HOOD

Opening the Hood



E263274

1. Open the left-hand front door.
2. Fully pull the hood release lever and let it completely retract.

Note: *This action releases the hood latch.*

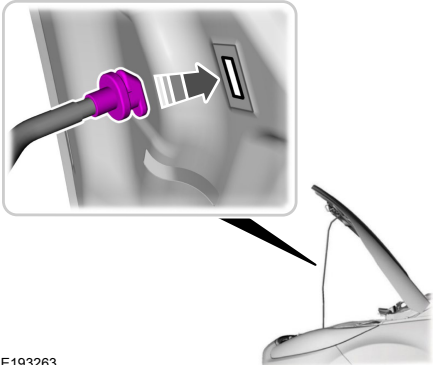
3. Fully pull the hood release lever for a second time.

Maintenance

Note: This action fully releases the hood.

4. Open the hood.

Note: There is no secondary hood release under the hood.




E193263

5. Support the hood with the strut.

Information Messages


Message	Action
Hood Ajar	Stop your vehicle as soon as it is safe to do so and close the hood.

Closing the Hood

**WARNING:** Make sure that you fully latch the hood before driving. Failure to follow this instruction could result in personal injury or death.

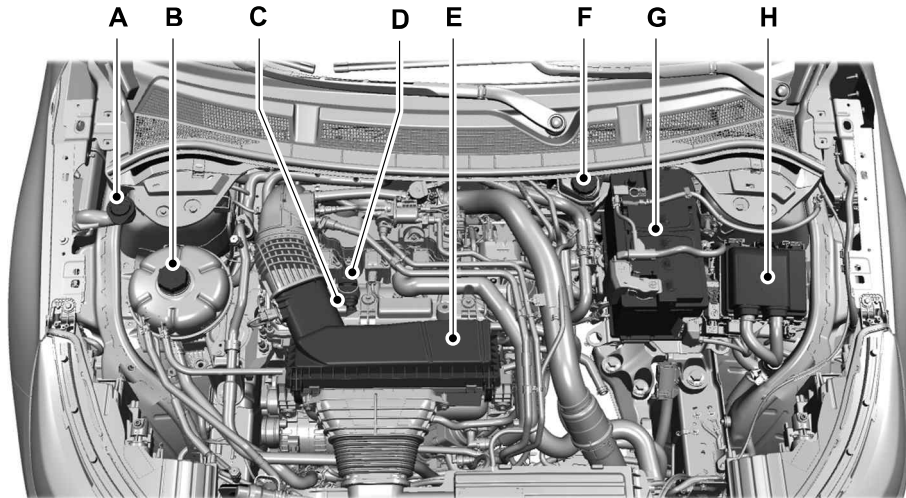
1. Remove the strut from the catch and secure it correctly in the clip.
2. Lower the hood and allow it to drop under its own weight for the last 10–14 in (25–35 cm).

Warning Lamps and Indicators

 This lamp illuminates when the ignition is on and the hood is not completely closed.

Maintenance

UNDER HOOD OVERVIEW - 2.0L ECOBOOST™

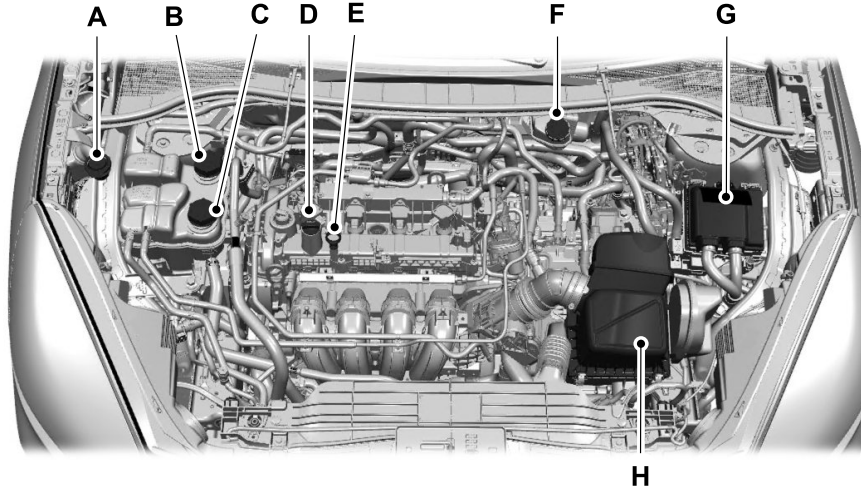


Maintenance

- A Windshield washer fluid reservoir. See **Adding Washer Fluid** (page 117).
- B Engine coolant reservoir. See **Changing the Coolant** (page 439).
- C Engine oil dipstick. See **Engine Oil Dipstick Overview** (page 432).
- D Engine oil filler cap. See **Adding Engine Oil** (page 432).
- E Air filter assembly. See **Changing the Engine Air Filter** (page 434).
- F Brake fluid reservoir. See **Locating the Brake Fluid Reservoir** (page 269).
- G Battery. See **Changing the 12V Battery** (page 444).
- H Engine compartment fuse box. See **Fuses** (page 412).

Maintenance

UNDER HOOD OVERVIEW - 2.5L, PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)



- A Windshield washer fluid reservoir: See **Adding Washer Fluid** (page 117).
- B Low temperature coolant cap: See **Checking the Coolant Level** (page 437).
- C High temperature coolant cap: See **Checking the Coolant Level** (page 437).

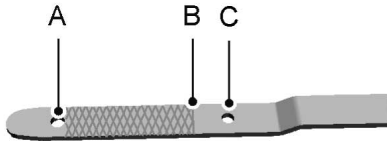
Maintenance

- D Engine oil filler cap: See **Adding Engine Oil** (page 432).
- E Engine oil dipstick: See **Engine Oil Dipstick Overview** (page 432).
- F Brake fluid reservoir: See **Checking the Brake Fluid** (page 269).
- G Power distribution box: See **Under Hood Fuse Box** (page 414).
- H Air filter assembly: See **Changing the Engine Air Filter** (page 436).

Maintenance

ENGINE OIL

ENGINE OIL DIPSTICK OVERVIEW



E225040

- A Minimum.
- B Fill Level.
- C Maximum.

CHECKING THE ENGINE OIL LEVEL

1. Make sure that your vehicle is on level ground.
2. Check the oil level before starting the engine, or switch the engine off after warm up and wait 15 minutes for the oil to drain into the oil pan.

Note: Checking the oil level too soon could result in an inaccurate reading.

3. Remove the dipstick and wipe it with a clean, lint-free cloth.
4. Reinstall the dipstick and make sure it is fully seated.
5. Remove the dipstick again to check the oil level.

Note: If the oil level is between the maximum and minimum marks, the oil level is acceptable. Do not add oil.

6. If the oil level is at the minimum mark, immediately add oil.
7. Reinstall the dipstick. Make sure it is fully seated.

Note: The oil consumption of new engines reaches its normal level after approximately 3,000 mi (5,000 km).

Note: Increases in oil level can occur from frequent short trips that do not allow the engine to get to operating temperature, as well as frequent idling or low speed driving for long periods of time.

Note: If oil levels are continuously noted above the maximum mark, schedule a visit to your authorized dealer.

ADDING ENGINE OIL



WARNING: Do not remove the filler cap when the engine is running.



WARNING: Do not add engine oil when the engine is hot. Failure to follow this instruction could result in personal injury.

Maintenance

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that the vehicle warranty may not cover.

- 1. Clean the area surrounding the engine oil filler cap before you remove it.
- 2. Remove the engine oil filler cap.
- 3. Add engine oil that meets our specifications. See **Capacities and Specifications** (page 495).
- 4. Reinstall the engine oil filler cap. Turn it clockwise until you feel a strong resistance.

Note: Do not add oil further than the maximum mark. Oil levels above the maximum mark may cause engine damage.

Note: Immediately soak up any oil spillage with an absorbent cloth.

INTELLIGENT OIL LIFE MONITOR

Under certain conditions the vehicle’s intelligent oil life monitor may determine your oil requires replacement prior to your general service. Should this occur it is recommended you replace your oil within two weeks or 500 mi (800 km) of being alerted.

Your authorized dealer will be able to advise you whether only an engine oil and filter change is recommended or whether you should complete your general service inclusive of oil and oil Filter.

RESETTING THE INTELLIGENT OIL LIFE MONITOR

Use the information display controls on the steering wheel to reset the oil change indicator.

From the main menu scroll to:

Message	Action and description
Settings	Press the right arrow button, then from this menu scroll to the following message.
Vehicle	Press the right arrow button, then from this menu scroll to the following message.
Oil Life	Press the right arrow button, then from this menu scroll to the following message.
Hold OK to Reset	Press and hold the OK button until the instrument cluster displays the following message. Reset Successful
	When the oil change indicator resets the instrument cluster displays 100%. Remaining Life {00}%

Maintenance


Message	Action and description
	If the instrument cluster displays one of the following messages, repeat the process. Not Reset Reset Cancelled

ENGINE OIL CAPACITY AND SPECIFICATION

For filling information, please refer to the Capacities and Specifications section of your owner's manual. See **Engine Oil Capacity and Specification** (page 434).

ENGINE AIR FILTER

CHANGING THE ENGINE AIR FILTER - 2.0L ECOBOOST™

**WARNING:** To reduce the risk of vehicle damage and personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

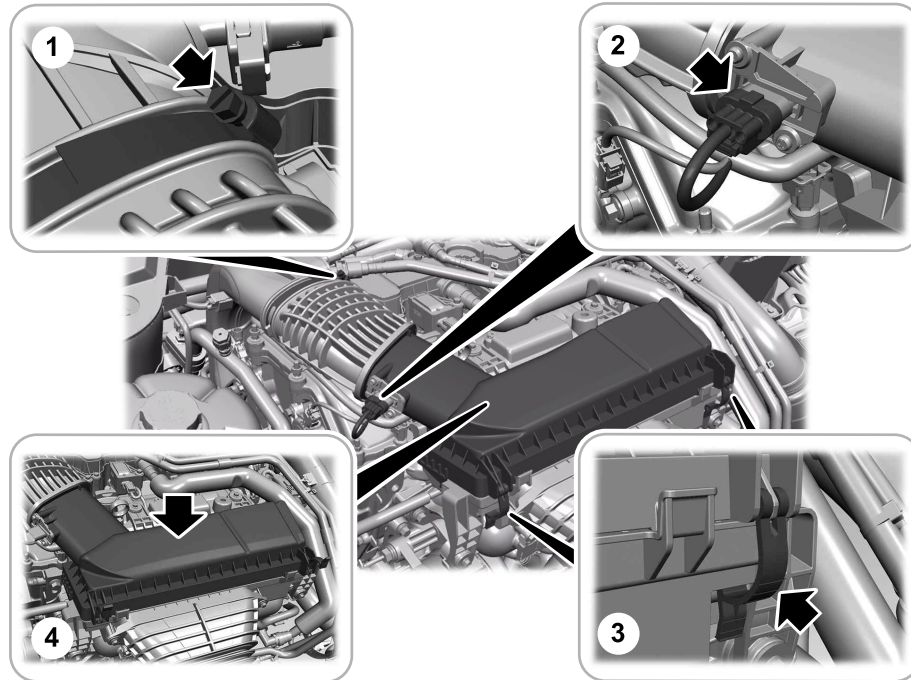
Change the air filter element at the proper intervals.

When changing the air filter element, use only the air filter element listed. See **Motorcraft Parts** (page 497).

Note: *Failure to use the correct air filter element could result in severe engine damage that the vehicle warranty may not cover.*

Note: *When servicing the air filter, do not allow foreign material to enter the air induction system. The engine is susceptible to damage from even small particles.*

Maintenance



Maintenance

1. Loosen the clamp. See **Maintenance Videos** (page 450).
2. Disconnect the connector.
3. Release the two clips securing the airbox cover to the housing.
4. Lift up on the airbox cover.
5. Remove the air filter element from the housing.
6. Wipe any dirt or debris from the housing.

Note: Do not allow dirt or debris to enter the air filter housing and make sure you have a good seal.

7. Install the new air filter element.

Note: Be careful not to crimp the air filter element edges between the housing and cover. This can cause filter damage and allow unfiltered air to enter the engine if not properly seated.

8. Install the airbox cover back into the housing. Make sure that all four cover fingers are seated in their corresponding housing windows. Press down with your right hand on the flexible tube, while pulling back on the housing bracket with your left hand.
9. Reverse Steps 3, 2 and 1. Make sure the clamp joint is fully seated.

CHANGING THE ENGINE AIR FILTER - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

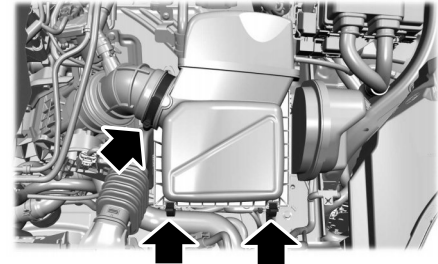


WARNING: To reduce the risk of vehicle damage and personal burn injuries, do not start your engine with the air cleaner removed and do not remove it while the engine is running.

When changing the air filter element, use only parts that meet or exceed our specifications.

Change the air filter element at the proper interval. See **Maintenance** (page 426).

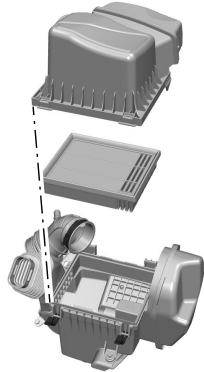
Note: If you do not use the correct air filter element, your vehicle warranty could be void.



1. Using a screwdriver, loosen the clamp on air filter housing cover.
2. Gently pull the boot back away from the air filter housing cover.
3. Release the two clips from the air filter housing cover.
4. Remove air filter housing cover.
5. Remove the air filter element from the air filter housing.

Maintenance

6. Wipe any dirt or debris from the air filter housing assembly to make sure no dirt gets in the engine and to make sure you have a good seal.




7. Install a new air filter element. Be careful not to crimp the filter element edges between the air filter housing and cover. This could cause filter damage and allow unfiltered air to enter the engine if it is not properly seated.
8. Install the air filter housing cover.

9. Engage the clips to secure the air filter housing cover to the air filter housing.
10. Reconnect the boot to the air filter housing cover and tighten securely.

COOLANT

CHECKING THE COOLANT LEVEL

 **WARNING:** Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.



WARNING: To reduce the risk of personal injury, make sure the engine is cool before unscrewing the coolant pressure relief cap. The cooling system is under pressure. Steam and hot liquid can come out forcefully when you loosen the cap slightly.

When the engine is cold, check the concentration and level of the coolant at the intervals listed in the scheduled maintenance information. See **Scheduled Maintenance** (page 563).

Note: Make sure that the coolant level is between the **MIN** and the **MAX** marks on the coolant reservoir.

Note: Coolant expands when it is hot. The level may extend beyond the **MAX** mark. This is normal.

Maintenance

Maintain coolant concentration within 48% to 50%, which equates to a freeze point between -29°F (-34°C) and -35°F (-37°C). Coolant concentration should be checked using a refractometer. We do not recommend the use of hydrometers or coolant test strips for measuring coolant concentration.

ADDING COOLANT



WARNING: Do not add coolant when the vehicle is on or the cooling system is hot. Failure to follow this instruction could result in personal injury.



WARNING: Do not remove the coolant reservoir cap when the engine is on or the cooling system is hot. Wait 10 minutes for the cooling system to cool down. Cover the coolant reservoir cap with a thick cloth to prevent the possibility of scalding and slowly remove the cap. Failure to follow this instruction could result in personal injury.



WARNING: Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your physician.



WARNING: Do not put coolant in the windshield washer reservoir. If sprayed on the windshield, coolant could make it difficult to see through the windshield.



WARNING: Do not add coolant further than the **MAX** mark.

Note: Do not use stop leak pellets, cooling system sealants, or non-specified additives as they can cause damage to the engine cooling or heating systems. Resulting component damage may not be covered by the vehicle Warranty.

Note: Automotive fluids are not interchangeable.

It is very important to use prediluted coolant approved to the correct specification in order to avoid plugging the small passageways in the engine cooling system. See **Capacities and Specifications** (page 495). Do not mix different colors or types of coolant in your vehicle. Mixing of engine coolants or using an incorrect coolant may harm the engine or cooling system components and may not be covered by the vehicle Warranty.

Note: If prediluted coolant is not available, use the approved concentrated coolant diluting it to 50/50 with deionised or distilled water. See **Capacities and Specifications** (page 495). Using water that has not been deionised may contribute to deposit formation, corrosion and plugging of the small cooling system passageways.

Note: Coolants marketed for all makes and models may not be approved to our specifications and may cause damage to the cooling system. Resulting component damage may not be covered by the vehicle Warranty.

Maintenance

If the coolant level is at or below the minimum mark, add prediluted coolant immediately.

To top up the coolant level do the following:

1. Unscrew the cap slowly. Any pressure escapes as you unscrew the cap.
2. Add prediluted coolant approved to the correct specification. See **Capacities and Specifications** (page 495).
3. Add enough prediluted coolant to reach the correct level.
4. Replace the coolant reservoir cap. Turn the cap clockwise until it contacts the hard stop.
5. Check the coolant level in the coolant reservoir the next few times you drive your vehicle. If necessary, add enough prediluted engine coolant to bring the coolant level to the correct level.

If you have to add more than 1.1 qt (1 L) of engine coolant per month, have your vehicle checked as soon as possible. Operating an engine with a low level of coolant can result in engine overheating and possible engine damage.

In case of emergency, you can add a large amount of water without engine coolant in order to reach a vehicle service location.

Water alone, without engine coolant, can cause engine damage from corrosion, overheating or freezing.

Do not use the following as a coolant substitute:

- Alcohol.
- Methanol.
- Brine.
- Any coolant mixed with alcohol or methanol antifreeze.

Alcohol and other liquids can cause engine damage from overheating or freezing.

Do not add extra inhibitors or additives to the coolant. These can be harmful and compromise the corrosion protection of the coolant.

CHANGING THE COOLANT

For coolant change, see your authorized dealer.

Changing the coolant is necessary at specific mileage intervals listed in the scheduled maintenance information.

MANAGING THE COOLANT TEMPERATURE

If you tow a trailer with your vehicle, the engine may temporarily reach a higher temperature during severe operating conditions, for example ascending a long or steep grade in high ambient temperatures.

At this time, you may notice the coolant temperature gauge moves toward the red zone and a message may appear in the information display.



WARNING: To reduce the risk of crash and injury, be prepared that the vehicle speed may reduce and the vehicle may not be able to accelerate with full power until the coolant temperature reduces.

Maintenance



WARNING: If you continue to drive your vehicle when the engine is overheating, the engine could stop without warning. Failure to follow this instruction could result in the loss of control of your vehicle.

You may notice a reduction in vehicle speed caused by reduced engine power in order to manage the engine coolant temperature. Your vehicle may enter this mode if certain high-temperature and high-load conditions take place. The amount of speed reduction depends on vehicle loading, grade and outside temperature. If this occurs, there is no need to stop your vehicle. You can continue to drive. See **Fail-Safe Cooling** (page 407).

The air conditioning may automatically turn on and off during severe operating conditions to protect the engine from overheating. When the coolant temperature decreases to the normal operating temperature, the air conditioning turns on.

If the coolant temperature gauge moves fully into the red zone, or if the coolant temperature warning or service engine soon messages appear in your information display, do the following:

1. Stop your vehicle as soon as it is safe to do so. Fully apply the parking brake, shift into park (P) or neutral (N).
2. Leave the engine running until the coolant temperature gauge needle returns to the normal position. If the temperature does not drop after several minutes, follow the remaining steps.

3. Switch the engine off and wait for it to cool. Check the coolant level.
4. If the coolant level is at or below the minimum mark, add prediluted coolant immediately.
5. If the coolant level is normal, restart the engine and continue.

COOLANT – WARNING LAMPS



If the engine begins to overheat, the coolant temperature gauge moves toward the red zone.



A warning lamp illuminates and a message may appear in the information display.

Maintenance

COOLANT – INFORMATION MESSAGES

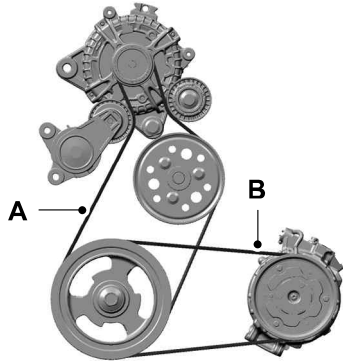
Message	Description and Action
High engine temperature Stop safely	Displays when the engine temperature is too high. Stop your vehicle as soon as it is safe to do so, switch the engine off and allow it to cool. If the problem persists, have your vehicle checked as soon as possible. See Checking the Coolant Level (page 437).

CHANGING THE FUEL FILTER

Your vehicle has a lifetime fuel filter that integrates with the fuel tank. It does not need regular maintenance or replacement.

Maintenance

DRIVE BELT ROUTING OVERVIEW - 2.0L ECOBOOST™



- A. The long drive belt is on the first pulley groove closest to the engine.
- B. The short drive belt is on the second pulley groove farthest from engine.

12V BATTERY

12V BATTERY PRECAUTIONS



WARNING: Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks or lighted substances to come near the battery. When working near the battery, always shield your face and protect your eyes. Always provide correct ventilation.



WARNING: When lifting a plastic-cased battery, excessive pressure on the end walls could cause acid to flow through the vent caps, resulting in personal injury and damage to the vehicle or battery. Lift the battery with a battery carrier or with your hands on opposite corners.



WARNING: Keep batteries out of reach of children. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Shield your eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes and get prompt medical attention. If acid is swallowed, call a physician immediately.



WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling.**

Maintenance



WARNING: This vehicle may have more than one battery. Removing the battery cables from only one battery does not disconnect your vehicle electrical system. Make sure you disconnect the battery cables from all batteries when disconnecting power. Failure to do so may cause serious personal injury or property damage.



WARNING: For vehicles with Auto-Start-Stop the battery requirement is different. You must replace the battery with one of exactly the same specification.

WHAT IS THE BATTERY MANAGEMENT SYSTEM

The battery management system monitors battery conditions and takes actions to extend battery life.

HOW DOES THE BATTERY MANAGEMENT SYSTEM WORK

If excessive battery drain is detected, the system temporarily disables some electrical systems to protect the battery.

Systems included are:

- Heated rear window.
- Heated seats.
- Climate control.
- Heated steering wheel.
- Audio unit.
- Navigation system.

A message could appear in the information display to alert you that battery protection actions are active. This message is only for notification that an action is taking place, and not intended to indicate an electrical problem or that the battery requires replacement.

BATTERY MANAGEMENT SYSTEM LIMITATIONS

After battery replacement, or in some cases after charging the battery with an external charger, the battery management system requires eight hours of vehicle sleep time to relearn the battery state of charge. During this time, your vehicle must remain fully locked with the ignition switched off.

Note: *Prior to relearning the battery state of charge, the battery management system could temporarily disable some electrical systems.*

Electrical Accessory Installation

To make sure the battery management system works correctly, do not connect an electrical device ground connection directly to the battery negative post. This can cause inaccurate measurements of the battery condition and potential incorrect system operation.

Maintenance

Note: *If you add electrical accessories or components to the vehicle, it could adversely affect battery performance and durability. This could also affect the performance of other electrical systems in the vehicle.*

CHANGING THE 12V BATTERY

The battery is in the engine compartment. See **Maintenance** (page 426).

Your vehicle has a maintenance-free battery. It does not require additional water during service.

If the vehicle battery has a cover, make sure you correctly install it after cleaning or replacing the battery.

For longer, trouble-free operation, keep the top of the battery clean and dry and the battery cables tightly fastened to the battery terminals. If any corrosion is present on the battery or terminals, remove the cables from the terminals and clean with a wire brush. You can neutralize the acid with a solution of baking soda and water.

We recommend that you disconnect the negative battery cable terminal from the battery if you plan to store your vehicle for an extended period.

Note: *If you only disconnect the negative battery cable terminal, make sure it is isolated or placed away from the battery terminal to avoid unintended connection or arcing.*

If you disconnect or replace the battery and your vehicle has an automatic transmission, it must relearn its adaptive strategy. Because of this, the transmission may shift firmly when first driven. This is normal operation while the transmission fully updates its operation to optimum shift feel.

Removing the Battery

1. Apply the parking brake and switch the ignition off.
2. Switch all electrical equipment off, for example lights and radio.
3. Wait a minimum of two minutes before disconnecting the battery.

Note: *The engine management system has a power hold function and remains powered for a period of time after you switch the ignition off. This is to allow diagnostic and adaptive tables to be stored. Disconnecting the battery without waiting can cause damage not covered by the vehicle Warranty.*

4. Disconnect and isolate the negative battery cable terminal.
5. Disconnect and isolate the positive battery cable terminal.
6. Remove the battery securing clamp.
7. Remove the battery.

If you disconnect or replace the vehicle battery, you must reset the following features:

- Window bounce-back. See **Window Bounce-Back** (page 131).
- Clock Settings.
- Pre-set radio stations.

Maintenance

Replacing the Battery

Note: Before reconnecting the battery, make sure the ignition remains switched off.

You must replace the battery with one of exactly the same specification.

To install, reverse the removal procedure.

Note: Make sure that you correctly install the battery terminal covers, battery cover and battery cable terminals.

CHANGING THE 12V BATTERY - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

The battery is in the luggage compartment.

Your vehicle has a maintenance-free battery. It does not require additional water during service.

If the vehicle battery has a cover, make sure you correctly install it after cleaning or replacing the battery.

For longer, trouble-free operation, keep the top of the battery clean and dry and the battery cables tightly fastened to the battery terminals. If any corrosion is present on the battery or terminals, remove the cables from the terminals and clean with a wire brush. You can neutralize the acid with a solution of baking soda and water.

Note: If you only disconnect the negative battery cable terminal, make sure it is isolated or placed away from the battery terminal to avoid unintended connection or arcing.

If you disconnect or replace the battery and your vehicle has an automatic transmission, it must relearn its adaptive strategy. Because of this, the transmission may shift firmly when first driven. This is normal operation while the transmission fully updates its operation to optimum shift feel.

Removing the Battery

1. Apply the parking brake and switch the ignition off.
2. Switch all electrical equipment off, for example lights and radio.

3. Wait a minimum of two minutes before disconnecting the battery.

Note: The engine management system has a power hold function and remains powered for a period of time after you switch the ignition off. This is to allow diagnostic and adaptive tables to be stored. Disconnecting the battery without waiting can cause damage not covered by the vehicle Warranty.

4. Remove the battery securing clamp.
5. Disconnect and isolate the negative battery cable terminal.
6. Disconnect and isolate the positive battery cable terminal.
7. Remove the battery.

If you disconnect or replace the vehicle battery, you must reset the following features:

- Window bounce-back. See **What Is Window Bounce-Back** (page 131).
- Clock Settings.
- Pre-set radio stations.

Maintenance

Replacing the Battery

Note: Before reconnecting the battery, make sure the ignition remains switched off.

You must replace the battery with one of exactly the same specification.

To install, reverse the removal procedure.

Note: Make sure that you correctly install the battery terminal covers, battery cover and battery cable terminals.

RESETTING THE BATTERY SENSOR

When you install a new battery, reset the battery sensor by doing the following:

1. Switch the ignition on, and leave the engine off.

Note: Complete Steps 2 and 3 within 10 seconds.

2. Flash the high beam headlamps five times, ending with the high beams off.

3. Press and release the brake pedal three times.

The battery warning lamp flashes three times to confirm that the reset is successful.

RECYCLING AND DISPOSING OF THE 12V BATTERY



Make sure that you dispose of old batteries in an environmentally friendly way. Seek advice from your local authority about recycling old batteries.

CHARGING THE 12V BATTERY - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Your vehicle has a high voltage to low voltage energy transfer feature that keeps the 12 volt battery charged by the high voltage battery. If the 12 volt battery level is low, the high voltage battery transfers energy to the 12 volt battery when the vehicle is off.

12V BATTERY – TROUBLESHOOTING

12V BATTERY – WARNING LAMPS



If it illuminates while driving, it indicates a charging system error. Switch off all unnecessary electrical equipment and have your vehicle immediately checked.

12V BATTERY – WARNING LAMPS - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)



If it illuminates when the green ready to drive indicator is activated, this indicates your vehicle requires service. Have your vehicle checked as soon as possible.

Maintenance

12V BATTERY – INFORMATION MESSAGES

Message	Details
Check Charging System	The charging system needs servicing. If the warning stays on or continues to come on, have your vehicle checked as soon as possible.
Charging System Service Soon	The charging system needs servicing. If the warning stays on or continues to come on, have your vehicle checked as soon as possible.
Charging System Service Now	The charging system needs servicing. Have your vehicle immediately checked.
Battery State of Charge Low	The battery management system determines that the 12V battery is at a low state of charge. Start the engine to charge the battery or charge the battery using an aftermarket battery charger. Always use the vehicle ground point when connecting the negative cable of the external battery charger. See Jump Starting the Vehicle (page 404). This message clears once you restart your vehicle and the battery state of charge has recovered. Do not switch on the ignition when a battery charger is in use to charge the battery.
Turn Power Off To Save Battery	The battery management system determines that the battery is at a low state of charge. Turn the ignition off as soon as possible to protect the battery. This message will clear once the vehicle has been started and the battery state of charge has recovered. Turning off unnecessary electrical loads will allow faster battery state-of-charge recovery.
Electrical Power Saver Active Some Features Turned Off See Manual	Displayed when the battery management system detects an extended low-voltage condition. Various vehicle features will be disabled to help preserve the battery. Turn off as many of the electrical loads as soon as possible to improve system voltage. If the system voltage has recovered, the disabled features will operate again as normal.

Maintenance

12V BATTERY – INFORMATION MESSAGES - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

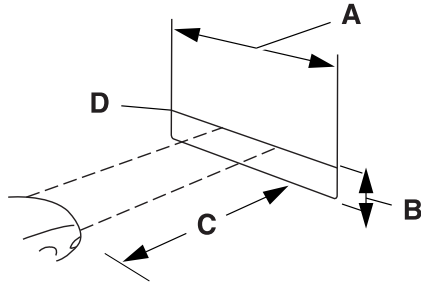
Message	Action
12V Battery Fault Service Soon	Your vehicle has a 12 volt battery problem. We recommend having the battery system checked by an authorized EV dealer.
Electric Range Reduced due to Park/Hazard Lamps On While Vehicle Off	The electric vehicle range is reduced due to the park and/or hazard lamps on while your vehicle was off.
Electrical System Drain Service Required	Your vehicle has an electrical drain within the vehicle. Please check for any aftermarket devices that could be draining the battery. If none are found, please have your vehicle serviced by an authorized EV dealer.

ADJUSTING THE HEADLAMPS

Vertical Aim Adjustment

The headlamps on your vehicle are properly aimed at the assembly plant. If your vehicle has been in an accident, the alignment of your headlamps should be checked by your authorized dealer.

Maintenance



- A 8 feet (2.4 meters)
- B Center height of lamp to ground
- C 25 feet (7.6 meters)
- D Horizontal reference line

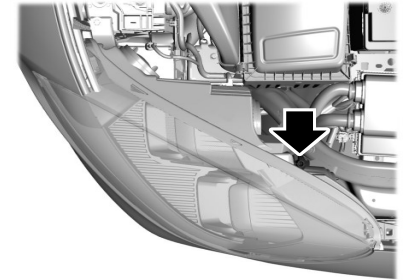
1. Park the vehicle directly in front of a wall or screen on a level surface, approximately 25 ft (7.6 m) away.
2. Measure the height of the headlamp bulb center from the ground and mark an 8 ft (2.4 m) horizontal reference line on the vertical wall or screen at this height.

Note: To see a clearer light pattern for adjusting, you may want to block the light from one headlamp when adjusting the other.

3. Switch on the low beam headlamps to illuminate the wall or screen and open the hood.



4. On the wall or screen you will observe a flat zone of high intensity light located at the top of the right hand portion of the beam pattern. If the top edge of the high intensity light zone is not at the horizontal reference line, the headlamp does need to be adjusted.



5. Locate the vertical adjuster on each headlamp. Using a Phillips #2 screwdriver, turn the adjuster either clockwise or counterclockwise in order to aim the headlamp. The horizontal edge of the brighter light should touch the horizontal reference line.
6. Close the hood and switch off the lamps.

Horizontal Aim Adjustment

Horizontal aim is not required for this vehicle and is non-adjustable.

Maintenance

EXTERIOR BULBS

EXTERIOR BULB SPECIFICATION CHART

Your vehicle has LED lamps. These are not serviceable items. See an authorized dealer if they fail.

INTERIOR BULBS

INTERIOR BULB SPECIFICATION CHART

Your vehicle has LED lamps. These are not serviceable items. See an authorized dealer if they fail.

MAINTENANCE VIDEOS

[2.0L Engine Air Filter Replacement Video Link](#)

Vehicle Care

CLEANING PRODUCTS

For best results, use the following products or products of equivalent quality:

For additional information and assistance, we recommend that you contact an authorized dealer.

Materials

Name	Specification
Motorcraft® Bug and Tar Remover, ZC-42 (U.S. & Canada)	
Motorcraft® Custom Bright Metal Cleaner, ZC-15 (U.S. & Canada)	ESR-M5B194-B
Motorcraft® Detail Wash, ZC-3-A (U.S. & Canada)	ESR-M14P4-A
Motorcraft® Engine Shampoo and Degreaser, ZC-20 (U.S.)	ESR-M14P3-A
Motorcraft® Engine Shampoo, CXC-66-A (Canada)	
Motorcraft® Premium Leather and Vinyl Cleaner, ZC-56 (U.S. & Canada)	
Motorcraft® Multi-Purpose Cleaner, CXC-101 (Canada)	
Motorcraft® Premium Windshield Wash Concentrate with Bitterant, ZC-32-B2 (U.S.)	WSS-M14P19-A
Motorcraft® Premium Quality Windshield Washer Fluid, CXC-37-F/M (Canada)	WSS-M14P19-A
Motorcraft® Professional Strength Carpet & Upholstery Cleaner, ZC-54 (U.S. & Canada)	
Motorcraft® Premium Glass Cleaner, CXC-100 (Canada)	ESR-M14P5-A

Vehicle Care

Name	Specification
Motorcraft® Spot and Stain Remover, ZC-14 (U.S.)	
Motorcraft® Ultra-Clear Spray Glass Cleaner, ZC-23 (U.S.)	ESR-M14P5-A
Motorcraft® Wheel and Tire Cleaner, ZC-37-A (U.S. & Canada)	

CLEANING THE EXTERIOR

CLEANING THE EXTERIOR PRECAUTIONS

Immediately remove fuel spillages, additive residuals, bird droppings, insect deposits and road tar. These may cause damage to your vehicle's paintwork or trim over time. Remove any exterior accessories, for example antennas, before entering a car wash.

CLEANING HEADLAMPS AND REAR LAMPS

We recommend that you only use cold or lukewarm water containing car shampoo to clean the headlamps and the rear lamps.

Do not scrape the lamps.

Do not wipe lamps when they are dry.

CLEANING WINDOWS AND WIPER BLADES

To clean the windshield and wiper blades:

- Clean the windshield with a non-abrasive glass cleaner.

Note: When cleaning the interior of the windshield, avoid getting any glass cleaner on the instrument panel or door panels. Wipe any glass cleaner off these surfaces immediately.

- Clean the wiper blades with washer fluid or water applied with a soft sponge or cloth.

Note: Do not use razor blades or other sharp objects to clean or remove decals from the inside of the heated rear window. This can cause damage not covered by the vehicle Warranty.

Vehicle Care

CLEANING CHROME, ALUMINIUM OR STAINLESS STEEL

We recommend that you only use a car shampoo, a soft cloth and water on bumpers and other chrome, aluminium or stainless steel parts.

Note: *For additional information and assistance, we recommend that you contact an authorized dealer.*

Note: *Rinse the area well after cleaning.*

Note: *Do not use abrasive materials, for example steel wool or plastic pads, as they can scratch these surfaces.*

Note: *Do not use chrome cleaner, metal cleaner or polish on wheels or wheel covers.*

CLEANING WHEELS

Only use a recommended wheel and tire cleaner to clean the wheels weekly. For additional information and assistance, we recommend that you contact an authorized dealer.

1. Use a sponge to remove heavy deposits of dirt and brake dust.
2. Rinse well after cleaning.

Note: *Do not apply a cleaning chemical to warm or hot wheel rims and covers.*

If you intend on parking your vehicle for an extended period after cleaning the wheels with a wheel cleaner, drive your vehicle for a few minutes before parking your vehicle. This reduces the risk of corrosion of the brake discs, brake pads and linings.

Do not clean the wheels when they are hot.

Note: *Some car washes could damage wheel rims and covers.*

Note: *Using non-recommended cleaners, harsh cleaning products, chrome wheel cleaners or abrasive materials could damage wheel rims and covers.*

CLEANING THE ENGINE COMPARTMENT

Use a vacuum cleaner to remove debris from the screen area below windshield.

Note: *If you are not familiar with the parts around the engine do not wash the engine compartment. Avoid frequent engine washes.*

When washing the engine compartment:

- Never wash or rinse the engine while it is hot or running.
- Never wash or rinse any ignition coil, spark plug wire or spark plug well.
- Cover the battery, power distribution box, and air filter assembly to prevent water damage.

Note: *If your vehicle has an engine cover remove the cover before application of shampoo and degreaser.*

- Spray an approved engine shampoo and degreaser on all parts that require cleaning and rinse with water.

CLEANING STRIPES OR GRAPHICS

It is recommended to wash your vehicle by hand however, pressure washing may be used under the following conditions:

Vehicle Care

- Use a spray with a 40° wide spray angle pattern.
- Keep the nozzle at a 12 in (305 mm) distance and 90° angle to your vehicle's surface.
- Do not use water pressure higher than 2,000 psi (14,000 kPa).
- Do not use water hotter than 179°F (82°C).

Note: *Holding the pressure washer nozzle at an angle to the vehicle's surface may damage graphics and cause the edges to peel away from the vehicle's surface.*

CLEANING CAMERA LENSES AND SENSORS

We recommend that you only use lukewarm or cold water and a soft cloth to clean the camera lens and sensors.

Note: *Do not pressure wash camera lens and sensors.*

CLEANING THE UNDERBODY

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt.

Rear suspension components may require regular cleaning with a power washer or a thorough rinse with a strong stream of water if the vehicle is operated in dusty or muddy environments. Rear leaf springs or other suspension components may emit squeaking or popping noises while operating the vehicle if particles, such as dirt, rocks, or other debris, are present in the components.

CLEANING THE INTERIOR

CLEANING THE INSTRUMENT PANEL



WARNING: Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel to avoid contamination of the airbag system.

We recommend that you only clean the instrument panel and cluster lens with a damp soft cloth. Dry the area with a clean, soft cloth.

For additional information and assistance, we recommend that you contact an authorized dealer.

Note: *Avoid cleaners or polishes that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect you from undesirable windshield reflection.*

CLEANING PLASTIC

We recommend that you only use a mild soap and water solution on a soft cloth. Dry the area with a clean, soft cloth.

CLEANING DISPLAYS AND SCREENS

We recommend that you only use a microfiber cloth in a circular motion to clean off the fingerprint or dust.

Vehicle Care

If dirt or fingerprints are still on the screen, apply a small amount of alcohol to the cloth and try to clean it again.

Note: Do not pour or spray alcohol onto the touchscreen.

Note: Do not use detergent or any type of solvent to clean the touchscreen.

CLEANING FABRIC



WARNING: On vehicles equipped with seat-mounted airbags, do not use chemical solvents or strong detergents. Such products could contaminate the side airbag system and affect performance of the side airbag in a crash.

We recommend that you only clean fabric in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.

3. For additional information and assistance, we recommend that you contact an authorized dealer.

For heavy stains, spot clean the area. If a ring forms on the fabric, clean the entire area immediately, but do not oversaturate or the ring could set.

CLEANING LEATHER



WARNING: On vehicles equipped with seat-mounted airbags, do not use chemical solvents or strong detergents. Such products could contaminate the side airbag system and affect performance of the side airbag in a crash.

We recommend that you only clean the leather surfaces in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.

3. Make sure the leather is dry, then apply a small amount of conditioner to a clean, dry cloth.
4. Rub the conditioner into the leather until it disappears. Allow the conditioner to dry, then repeat the process for the entire interior. If a film appears, wipe it off with a dry, clean cloth.
5. For additional information and assistance, we recommend that you contact an authorized dealer.

CLEANING VINYL



WARNING: On vehicles equipped with seat-mounted airbags, do not use chemical solvents or strong detergents. Such products could contaminate the side airbag system and affect performance of the side airbag in a crash.

We recommend that you only clean vinyl surfaces in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.

Vehicle Care

2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
3. For additional information and assistance, we recommend that you contact an authorized dealer.

CLEANING CARPETS AND FLOOR MATS

We recommend that you only clean your carpets in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.
3. For additional information and assistance, we recommend that you contact an authorized dealer.

For heavy stains, spot clean the area. If a ring forms on the fabric, clean the entire area immediately, but do not oversaturate or the ring could set.

We recommend that you only clean your floor mats in the following way:

1. Remove dust and loose dirt with a vacuum cleaner.
2. Wash rubber floor mats using mild soap and lukewarm or cold water.
3. Completely dry the floor mat before placing them back in your vehicle.

CLEANING SEATBELTS



WARNING: Do not use cleaning solvents, bleach or dye on the vehicle's seatbelts, as these actions may weaken the belt webbing.

1. Wipe the surface with a soft, damp cloth and a mild soap and water solution. Dry the area with a clean, soft cloth.

CLEANING MOONROOF TRACKS

1. Remove debris from the tracks with a vacuum cleaner.

2. Wipe the bulb seal and mating painted roof metal surface with a soft, damp cloth and a mild soap and water solution.

Note: *The moonroof rail tracks are greased to maintain proper functionality. Do not wipe off the grease.*

REPAIRING MINOR PAINT DAMAGE

We recommend that you contact an authorized dealer to identify your vehicle color code. Authorized dealers have touch-up paint to match your vehicle's color.

Before repairing minor paint damage, use a cleaner to remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout.

Read the instructions before using cleaning products.

WAXING YOUR VEHICLE

Wax the high-gloss painted surface of your prewashed vehicle once or twice a year.

Vehicle Care

We recommend that you only use an approved quality wax that does not contain abrasives. Follow the manufacturer's instructions to apply and remove the wax. For additional information and assistance, we recommend that you contact an authorized dealer.

When washing and waxing, park your vehicle in a shaded area out of direct sunlight.

Note: *Avoid waxing unpainted or low-gloss black colored parts, they discolor over time.*

Storing Your Vehicle

PREPARING YOUR VEHICLE FOR STORAGE

If you plan on storing your vehicle for 30 days or more, the following maintenance recommendations ensures your vehicle stays in good operating condition.

Under various conditions, long-term storage may lead to degraded engine performance or failure unless you use specific precautions to preserve your vehicle.

General

- Store all vehicles in a dry, ventilated place.
- If vehicles are stored outside, they require regular maintenance to protect against rust and weather damage.
- Make sure all linkages, cables, levers and pins under your vehicle are covered with grease to prevent rust.

- Move vehicles at least 25 ft (7.5 m) every 15 days to lubricate working parts and prevent corrosion.
- Fill the fuel tank with high-quality fuel until the first automatic shutoff of the fuel pump nozzle.

Engine

- Change the engine oil and filter prior to storage because used engine oil contains contaminants which may cause engine damage.
- Start the engine every 15 days for a minimum of 15 minutes. Run at fast idle with the climate controls set to defrost until the engine reaches normal operating temperature.
- With your foot on the brake, shift through all the gears while the engine is running.

Body

- Wash your vehicle thoroughly to remove dirt, grease, oil, tar or mud from exterior surfaces, rear wheel housings and the underside of front fenders.
- Periodically wash your vehicle if it is stored in exposed locations.
- Touch-up exposed or primed metal to prevent rust.
- Cover chrome and stainless steel parts with a thick coat of auto wax to prevent discoloration. Rewax as necessary when you wash your vehicle.
- Lubricate all hood, door and luggage compartment hinges and latches with a light grade oil.
- Cover interior trim to prevent fading.
- Keep all rubber parts free from oil and solvents.

Storing Your Vehicle

12 Volt Battery

- When storing your vehicle for greater than 30 days the state of charge should be approximately 50%. Additionally, we recommend disconnecting the 12v battery which will reduce system loads on the battery.
- Check and recharge as necessary. Keep connections clean.

Note: *It is necessary to reset memory features if you disconnect the battery cables.*

Brakes

Make sure the brakes and parking brake release fully.

Note: *If you intend on parking your vehicle for an extended period after cleaning the wheels with a wheel cleaner, drive your vehicle for a few minutes before doing so to reduce the risk of increased corrosion of the brake discs, brake pads and linings.*

Tires

Maintain recommended air pressure.

Note: *If you intend on parking your vehicle for an extended period after cleaning the wheels with a wheel cleaner, drive your vehicle for a few minutes before doing so. This reduces the risk of corrosion of the brake discs, brake pads and linings.*

REMOVING YOUR VEHICLE FROM STORAGE

When your vehicle is ready to come out of storage, do the following:

- We recommend that you change the engine oil before you use your vehicle again.
- Wash your vehicle to remove any dirt or grease film build-up on window surfaces.
- Check windshield wipers for any deterioration.
- Check the underhood for any foreign materials such as mice or squirrel nests.
- Check the exhaust for any foreign materials.
- Check tire pressures and set tire inflation per the Tire Label.

- Check brake pedal operation. Corroded brake rotors could cause brake noise. Drive your vehicle and gently apply and release the brakes repeatedly over a 10-minute drive to reduce the corrosion from the brakes.
- Check fluid levels (including coolant, oil and gas) to make sure there are no leaks, and fluids are at recommended levels.
- If you remove the battery, clean the battery cable ends and check for damage.

Contact an authorized dealer if you have any concerns or issues.

Wheel and Tire Information

LOCATING THE TIRE LABEL

The tire label or safety certification label is on the driver side B-pillar or the edge of the driver door. It contains information on the recommended front and rear tire inflation pressures. See **Locating the Safety Compliance Certification Labels** (page 379).

DEPARTMENT OF TRANSPORTATION UNIFORM TIRE QUALITY GRADES



Tire Quality Grades apply to new pneumatic passenger car tires. The Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example: **Treadwear 200 Traction AA Temperature A.**

These Tire Quality Grades are determined by standards that the United States Department of Transportation has set.

Tire Quality Grades apply to new pneumatic passenger car tires. They do not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, light truck or LT type tires, tires with nominal rim diameters of 10 to 12 inches or limited production tires as defined in Title 49 Code of Federal Regulations Part 575.104 (c)(2).

U.S. Department of Transportation Tire quality grades: The U.S. Department of Transportation requires us to give you the following information about tire grades exactly as the government has written it.

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear 1½ times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climate.

Traction AA A B C



WARNING: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning or peak traction characteristics.

Wheel and Tire Information

The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

Temperature A B C



WARNING: The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

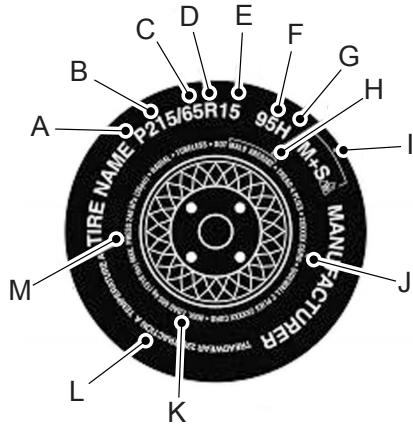
The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause

the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 139. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

INFORMATION ON THE TIRE SIDEWALL

Both United States and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

Information on P Type Tires



P215/65R15 95H is an example of a tire size, load index and speed rating. The definitions of these items are listed below. (Note that the tire size, load index and speed rating for your vehicle may be different from this example.)

Wheel and Tire Information

A. P: Indicates a tire, designated by the Tire and Rim Association, that may be used for service on cars, sport utility vehicles, minivans and light trucks. **Note:** If your tire size does not begin with a letter this may mean it is designated by either the European Tire and Rim Technical Organization or the Japan Tire Manufacturing Association.

B. 215: Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

C. 65: Indicates the aspect ratio which gives the tire's ratio of height to width.

D. R: Indicates a radial type tire.

E. 15: Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

F. 95: Indicates the tire's load index. It is an index that relates to how much weight a tire can carry. You may find this information in your owner's manual. If not, contact a local tire dealer.

Note: *You may not find this information on all tires because it is not required by federal law.*

G. H: Indicates the tire's speed rating. The speed rating denotes the speed at which a tire is designed to be driven for extended periods of time under a standard condition of load and inflation pressure. The tires on your vehicle may operate at different conditions for load and inflation pressure. These speed ratings may need to be adjusted for the difference in conditions. The ratings range from 81 mph (130 km/h) to 186 mph (299 km/h). These ratings are listed in the following chart.

Note: *You may not find this information on all tires because it is not required by federal law.*

Letter rating	Speed rating
M	81 mph (130 km/h)
N	87 mph (140 km/h)
Q	99 mph (159 km/h)
R	106 mph (171 km/h)
S	112 mph (180 km/h)
T	118 mph (190 km/h)
U	124 mph (200 km/h)
H	130 mph (210 km/h)
V	149 mph (240 km/h)

Wheel and Tire Information

Letter rating	Speed rating
W	168 mph (270 km/h)
Y	186 mph (299 km/h)

Note: For tires with a maximum speed capability over 149 mph (240 km/h), tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 186 mph (299 km/h), tire manufacturers always use the letters ZR.

H. U.S. DOT Tire Identification Number (TIN): This begins with the letters DOT and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000, the numbers

go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

I. M+S or M/S: Mud and Snow, or

AT: All Terrain, or

AS: All Season.

J. Tire Ply Composition and Material Used: Indicates the number of plies or the number of layers of rubber-coated fabric in the tire tread and sidewall. Tire manufacturers also must indicate the ply materials in the tire and the sidewall, which include steel, nylon, polyester, and others.

K. Maximum Load: Indicates the maximum load in kilograms and pounds that can be carried by the tire. See the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), for the correct tire pressure for your vehicle.

L. Treadwear, Traction and Temperature Grades:

***Treadwear** The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half times as well on the government course as a tire graded 100.

Wheel and Tire Information

***Traction:** The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

***Temperature:** The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

M. Maximum Inflation Pressure:

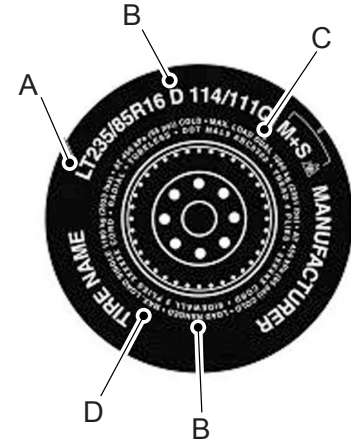
Indicates the tire manufacturers' maximum permissible pressure or the pressure at which the maximum load can be carried by the tire. This pressure is normally higher than the vehicle manufacturer's recommended cold inflation pressure which can be found on the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to

the driver's seating position), or Tire Label which is located on the B-Pillar or the edge of the driver's door. The cold inflation pressure should never be set lower than the recommended pressure on the vehicle label.

The tire suppliers may have additional markings, notes or warnings such as standard load or radial tubeless.

Additional Information Contained on the Tire Sidewall for LT Type Tires

Note: *Tire Quality Grades do not apply to this type of tire.*



LT type tires have some additional information beyond those of P type tires; these differences are described below.

A. LT: Indicates a tire, designated by the Tire and Rim Association, that is intended for service on light trucks.

Wheel and Tire Information

B. Load Range and Load Inflation

Limits: Indicates the tire's load-carrying capabilities and its inflation limits.

C. Maximum Load Dual lb (kg) at psi

(kPa) cold: Indicates the maximum load and tire pressure when the tire is used as a dual, defined as four tires on the rear axle (a total of six or more tires on the vehicle).

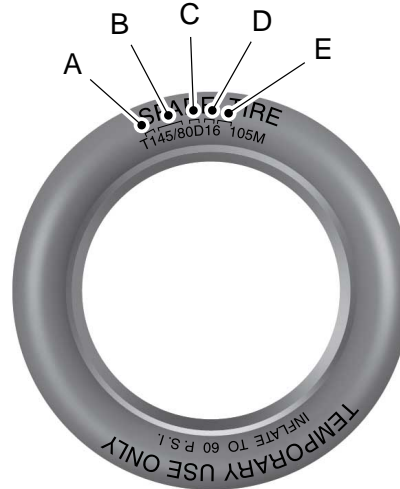
D. Maximum Load Single lb (kg) at psi

(kPa) cold: Indicates the maximum load and tire pressure when the tire is used as a single, defined as two tires (total) on the rear axle.

Information on T Type Tires

T145/80D16 is an example of a tire size.

Note: *The temporary tire size for your vehicle may be different from this example. Tire Quality Grades do not apply to this type of tire.*



T type tires have some additional information beyond those of P type tires; these differences are described below:

A. T: Indicates a type of tire, designated by the Tire and Rim Association, that is intended for temporary service on cars, sport utility vehicles, minivans and light trucks.

B. 145: Indicates the nominal width of the tire in millimeters from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

C. 80: Indicates the aspect ratio which gives the tire's ratio of height to width. Numbers of 70 or lower indicate a short sidewall.

D. D: Indicates a diagonal type tire.

R: Indicates a radial type tire.

E. 16: Indicates the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

Wheel and Tire Information

GLOSSARY OF TIRE TERMINOLOGY

***Tire label:** A label showing the original equipment tire sizes, recommended inflation pressure and the maximum weight the vehicle can carry.

***Tire Identification Number (TIN):** A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size and date of manufacture. Also referred to as DOT code.

***Inflation pressure:** A measure of the amount of air in a tire.

***Standard load:** A class of P-metric or Metric tires designed to carry a maximum load at set pressure. For example: For P-metric tires 35 psi (2.4 bar) and for Metric tires 36 psi (2.5 bar). Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.

***Extra load:** A class of P-metric or Metric tires designed to carry a heavier maximum load at 42 psi (2.9 bar). Increasing the inflation pressure beyond this pressure will not increase the tire's load carrying capability.

***kPa:** Kilopascal, a metric unit of air pressure.

***PSI:** Pounds per square inch, a standard unit of air pressure.

***Cold tire pressure:** The tire pressure when the vehicle has been stationary and out of direct sunlight for an hour or more and prior to the vehicle being driven for 1 mi (1.6 km).

***Recommended inflation pressure:** The cold inflation pressure found on the Safety Compliance Certification Label (affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position), or Tire Label located on the B-Pillar or the edge of the driver door.

***B-pillar:** The structural member at the side of the vehicle behind the front door.

***Bead area of the tire:** Area of the tire next to the rim.

***Sidewall of the tire:** Area between the bead area and the tread.

***Tread area of the tire:** Area of the perimeter of the tire that contacts the road when mounted on the vehicle.

***Rim:** The metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

TIRE REPLACEMENT REQUIREMENTS

Your vehicle is equipped with tires designed to provide a safe ride and handling capability.

Wheel and Tire Information



WARNING: Only use replacement tires and wheels that are the same size, load index, speed rating, and type as those originally provided for your vehicle. The recommended tire and wheel sizes can be found on the Tire Label on the driver side door frame or the edge of the driver door. If this information is not found in those locations, or for additional options, contact your authorized dealer. Use of any tire or wheel not recommended, could affect the safety and performance of your vehicle, which could result in an increased risk of loss of vehicle control, vehicle rollover, personal injury and death.



WARNING: To reduce the risk of serious injury, when mounting replacement tires and wheels, you should not exceed the maximum pressure indicated on the sidewall of the tire to set the beads without additional precautions listed below. If the beads do not seat at the maximum pressure indicated, re-lubricate and try again.



WARNING: For a mounting pressure more than 20 psi (1.38 bar) greater than the maximum pressure, a Ford dealer or other tire service professional should do the mounting.



WARNING: Always inflate steel carcass tires with a remote air fill with the person inflating standing at a minimum of 12 ft (3.66 m) away from the wheel and tire assembly.



WARNING: Only use the specified jacking points. If you use any other locations you could damage vehicle components, such as brake lines.



WARNING: When inflating the tire for mounting pressures up to 20 psi (1.38 bar) greater than the maximum pressure on the tire sidewall, the following precautions must be taken to protect the person mounting the tire:

- Make sure that you have the correct tire and wheel size.
- Lubricate the tire bead and wheel bead seat area again.
- Stand at a minimum of 12 ft (3.66 m) away from the wheel and tire assembly.
- Use both eye and ear protection.

Important: Remember to replace the wheel valve stems when the road tires are replaced on your vehicle.

Wheel and Tire Information

It is recommended that the two front tires or two rear tires generally be replaced as a pair if the worn tires still have usable depth.

To avoid potential All-Wheel Drive (AWD) malfunction or (AWD) system damage, it is recommended to replace all four tires rather than mixing significantly worn tires with new tires.

The tire pressure sensors mounted in the wheels (originally installed on your vehicle) are not designed to be used in aftermarket wheels.

The use of wheels or tires not recommended may affect the operation of your tire pressure monitoring system.

If the tire pressure monitoring system indicator is flashing, your system is malfunctioning. Your replacement tire might be incompatible with your tire pressure monitoring system, or some component of the system may be damaged.

Age



WARNING: Tires degrade over time depending on many factors such as weather, storage conditions, and conditions of use (load, speed, inflation pressure) the tires experience throughout their lives.

In general, tires should be replaced after six years regardless of tread wear. However, heat caused by hot climates or frequent high loading conditions can accelerate the aging process and may require tires to be replaced more frequently.

You should replace your spare tire when you replace the road tires or after six years due to aging even if it has not been used.

U.S. DOT Tire Identification Number

Both United States and Canada Federal regulations require tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a U.S. DOT Tire Identification Number for safety standard certification and in case of a recall.

This begins with the letters DOT and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code designating where it was manufactured, the next two are the tire size code and the last four numbers represent the week and year the tire was built. For example, the numbers 317 mean the 31st week of 1997. After 2000, the numbers go to four digits. For example, 2501 means the 25th week of 2001. The numbers in between are identification codes used for traceability. This information is used to contact customers if a tire defect requires a recall.

Wheel and Tire Information

USING SNOW CHAINS



WARNING: Do not exceed 30 mph (50 km/h). Failure to follow this instruction could result in the loss of control of your vehicle, personal injury or death.



WARNING: Do not use snow chains on snow-free roads.



WARNING: Only fit snow chains to specified tires.



WARNING: If your vehicle is fitted with wheel trims, remove them before fitting snow chains.



WARNING: If you are driving in slippery conditions that require tire chains or cables, then it is critical that you drive cautiously. Keep speeds down, allow for longer stopping distances and avoid aggressive steering to reduce the chances of a loss of vehicle control which can lead to serious injury or death. If the rear end of your vehicle slides while cornering, steer in the direction of the slide until you regain control of your vehicle.



WARNING: Remember that even advanced technology cannot defy the laws of physics. It's always possible to lose control of a vehicle due to inappropriate driver input for the conditions. Aggressive driving on any road condition can cause you to lose control of your vehicle increasing the risk of personal injury or property damage. Activation of the electronic stability control system is an

indication that at least some of the tires have exceeded their ability to grip the road; this could reduce the operator's ability to control the vehicle potentially resulting in a loss of vehicle control, vehicle rollover, personal injury and death.



WARNING: Wheels and tires must be the same size, load index and speed rating as those originally fitted on the vehicle. Use of any other tire or wheel can affect the safety and performance of your vehicle. Additionally, the use of non-recommended tires and wheels can cause steering, suspension, axle, transfer case or power transfer unit failure. Follow the recommended tire inflation pressures found on the Safety Compliance Certification label, or the Tire Label on the B-Pillar or the edge of the driver door. Failure to follow this instruction could result in loss of vehicle control, vehicle rollover, or personal injury or death.

Wheel and Tire Information

The tires on your vehicle could have all-weather treads to provide traction in rain and snow. In some climates you will need to use snow tires and chains on your vehicle in emergency situations or if required by law.

Note: *The suspension insulation and bumpers will help prevent vehicle damage. Do not remove these components from your vehicle when using snow tires and chains.*

Note: *Driving too fast for road conditions creates the possibility of loss of vehicle control. Driving at very high speeds for extended periods of time may result in damage to vehicle components.*

Follow these guidelines when using snow tires and chains:

- The snow chains or cables must be mounted in pairs on the front tires only.
- Chains may damage aluminum wheels.
- Use ultra low profile cables, 10 mm or less in dimension as measured on the sidewall of your tire, only with 225/60R18 all season tires.
- Do not use snow chains or cables with 225/55R19, or 245/45R20.

- Not all S-class snow chains or cables meet these restrictions. Chains of this size restriction will include a tensioning device.
- Purchase chains or cables from a manufacturer that clearly labels body to tire dimension restrictions.
- When driving with snow chains do not exceed 30 mph (50 km/h) or the maximum speed recommended by the chain manufacturer, whichever is less.
- Install cables securely, verifying that the cables do not touch any wiring or brake lines.
- Drive cautiously. If you hear the cables rub or bang against the vehicle, stop and retighten them. If this does not work, remove the cables to prevent vehicle damage.
- Remove the tire chains when they are no longer needed. Do not use tire chains on dry roads.

If you have any questions regarding snow chains or cables, please contact your authorized dealer.

Tire Care

CHECKING THE TIRE PRESSURES

Safe operation of your vehicle requires that your tires are properly inflated. Every day before you drive, check your tires.

At least once a month and before long trips, inspect each tire and check the tire pressure with a tire gauge. Inflate all tires to the recommended inflation pressure. See **Inflating the Tires** (page 471).

INFLATING THE TIRES



WARNING: Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or blowout, with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup

and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!



WARNING: Do not use the tire pressure displayed in the information display as a tire pressure gauge. Failure to follow this instruction could result in personal injury or death.

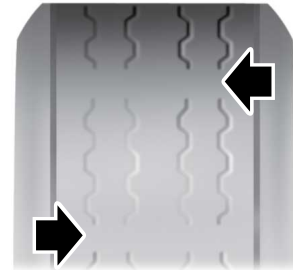
Use the recommended cold inflation pressure for optimum tire performance and wear. Under-inflation or over-inflation may cause uneven treadwear patterns.

Inflate your tires to the recommended inflation pressure even if it is less than the maximum inflation pressure information found on the tire. You can find the tire label with the recommended tire inflation pressure next to the tire size on the B-Pillar or the edge of the driver door.

The recommended tire inflation pressure is also found on the Safety Compliance Certification Label, affixed to either the door hinge pillar, door-latch post, or the door edge that meets the door-latch on the B-pillar, or on the edge of the driver door.

Failure to follow the tire pressure recommendations can cause uneven treadwear patterns and adversely affect the way your vehicle handles.

INSPECTING THE TIRE FOR WEAR



Tire Care

When the tread is worn down to one sixteenth of an inch (2 mm), tires must be replaced to help prevent your vehicle from skidding and hydroplaning. Built-in treadwear indicators, or wear bars, which look like narrow strips of smooth rubber across the tread will appear on the tire when the tread is worn down to one sixteenth of an inch (2 mm).

When the tire tread wears down to the same height as these wear bars, the tire is worn out and must be replaced.

The tires should also be balanced periodically. An unbalanced tire and wheel assembly may result in irregular tire wear.

Periodically inspect the tire treads for uneven or excessive wear and remove objects such as stones, nails or glass that may be wedged in the tread grooves.

INSPECTING THE TIRE FOR DAMAGE

Inspect the tire sidewalls for cracking, cuts, bruises and other signs of damage or excessive wear. If internal damage to the tire is suspected, have the tire dismantled and inspected in case it needs to be repaired or replaced. For your safety, tires that are damaged or show signs of excessive wear should not be used because they are more likely to blow out or fail.

Periodically inspect the tire treads and sidewalls for damage, such as bulges in the tread or sidewalls, cracks in the tread groove and separation in the tread or sidewall. If damage is observed or suspected, have the tire inspected by a tire professional.

Safety Practices



WARNING: If your vehicle is stuck in snow, mud or sand, do not rapidly spin the tires; spinning the tires can tear the tire and cause an explosion. A tire can explode in as little as three to five seconds.



WARNING: Do not spin the wheels at over 34 mph (55 km/h). The tires may fail and injure a passenger or bystander.

Highway Hazards

No matter how carefully you drive, there is always the possibility that you could eventually have a flat tire on the highway. Drive slowly to the closest safe area out of traffic. This could further damage the flat tire, but your safety is more important.

Tire Care

If you feel a sudden vibration or ride disturbance while driving, or you suspect your tire or vehicle has been damaged, immediately reduce your speed. Drive with caution until you can safely pull off the road. Stop and inspect the tires for damage. If a tire is under-inflated or damaged, deflate it, remove the wheel and replace it with your spare tire and wheel. If you cannot detect a cause, have the vehicle towed to the nearest repair facility or tire dealer to have the vehicle inspected.

Tire and Wheel Alignment

A bad jolt from hitting a curb or pothole can cause the front end of your vehicle to become misaligned or cause damage to your tires. If your vehicle seems to pull to one side when you are driving, the wheels could be out of alignment. Have an authorized dealer check the wheel alignment periodically.

Wheel misalignment in the front or the rear can cause uneven and rapid treadwear of your tires and should be corrected by an authorized dealer.

INSPECTING THE WHEEL VALVE STEMS

Check the valve stems for holes, cracks, or cuts that could permit air leakage.

TIRE ROTATION



WARNING: If the tire label shows different tire pressures for the front and rear tires and the vehicle has a tire pressure monitoring system, then you need to update the settings for the system sensors. Always perform the system reset procedure after tire rotation. If you do not reset the system, it may not provide a low tire pressure warning when necessary.

Rotating your tires at the recommended interval will help your tires wear more evenly, providing better tire performance and longer tire life.

Note: If your tires show any uneven wear have the alignment checked by an authorized dealer before rotating tires.

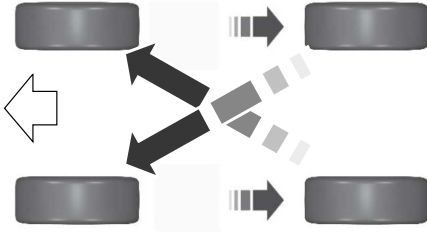
Note: If you have a dissimilar spare wheel and tire assembly, it is intended for temporary use only and should not be used in a tire rotation.

Note: After having your tires rotated, inflation pressure must be checked and adjusted to the vehicle requirements.

Tire Rotation Diagram

Follow the diagram indicating the correct tire locations for rotating the tires.

Tire Care



Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)

WHAT IS THE TIRE SEALANT AND INFLATOR KIT

The kit consists of an air compressor to re-inflate the tire and a canister of sealing compound that effectively seals most punctures. This kit provides a temporary tire repair allowing you to drive your vehicle up to 120 mi (200 km) at a maximum speed of 50 mph (80 km/h) to reach a tire service location.

Note: *The temporary mobility kit contains enough sealant compound in the canister for one tire repair only. See an authorized dealer for replacement sealant canisters.*

TIRE SEALANT AND INFLATOR KIT PRECAUTIONS



WARNING: Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.



WARNING: Do not run the engine when operating the air compressor unless the vehicle is outdoors or in a well-ventilated area.

Note: *Do not use the kit if a tire has become severely damaged. Only punctures located within the tire tread can be sealed with the kit.*

Do not attempt to repair punctures larger than 0.24 in (6 mm) or damage to the tire's sidewall. The tire may not completely seal.

- Drive carefully and avoid abrupt steering maneuvers.
- Periodically monitor tire inflation pressure in the affected tire; if the tire is losing pressure, have the vehicle towed.
- Read the information in the Tips for Use of the Kit section to make sure safe operation of the kit and your vehicle.

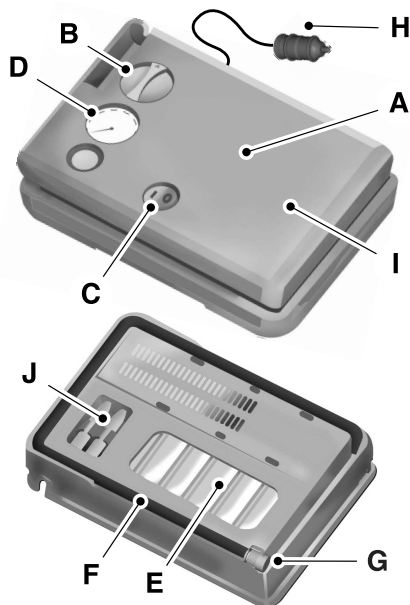
After sealant use, the tire pressure monitoring system sensor and valve stem on the wheel must be replaced by an authorized dealer.

LOCATING THE TIRE SEALANT AND INFLATOR KIT

The kit is located under the load floor in the rear of the vehicle.

Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)

TIRE SEALANT AND INFLATOR KIT COMPONENTS



- A Air compressor (inside)
- B Selector switch
- C On and Off button
- D Air pressure gauge
- E Sealant bottle and canister
- F Dual purpose hose: air and repair
- G Tire valve connector
- H Accessory power plug
- I Casing/housing
- J Bike/raft/sports ball adapters

USING THE TIRE SEALANT AND INFLATOR KIT

Tips for use of the kit

To make sure the kit operates safely and properly, observe the following:

- Before operating the kit, make sure your vehicle is safely off the road and away from moving traffic.
- Do not remove any foreign objects, such as nails or screws, from the tire.
- Do not allow the compressor to operate continuously for more than 15 minutes. This prevents the compressor from overheating.
- Only use the kit when the ambient temperature is between -22°F (-30°C) and 158°F (70°C).
- Only use the sealing compound before the use-by date. The use-by date is on a label on the sealant canister and can be seen through the rectangular viewing window on the bottom of the compressor. Check the use-by date regularly and replace the canister when the sealant expires.

Note: Sealant compound contains latex. Use appropriate precautions to avoid any allergic reactions.



When inflation only is required for a tire or other objects, the selector must be in the Air position.

Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)

What to do when a tire is punctured

A tire puncture within the tire's tread area can be repaired in two stages with the kit.

- In the first stage, the tire is reinflated with a sealing compound and air. After the tire has been inflated, drive the vehicle a short distance approximately 4 mi (6 km) to distribute the sealant in the tire.
- In the second stage, check the tire pressure and adjust, if necessary, to the vehicle's specified tire inflation pressure.

First Stage: Reinflating the Tire with sealing compound and air



WARNING: Do not stand directly over the kit while inflating the tire. If you notice any unusual bulges or deformations in the tire's sidewall during inflation, stop and call roadside assistance.



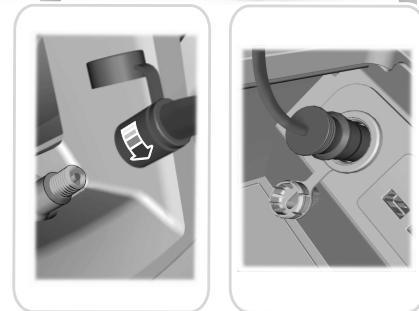
WARNING: If the tire does not inflate to the recommended tire pressure within 15 minutes, stop and call roadside assistance.

Park the vehicle in a safe, level and secure area, away from moving traffic.

Turn the hazard lights on. Apply the parking brake and power off the vehicle. Inspect the flat tire for visible damage.

If a puncture is located in the tire sidewall, stop and call roadside assistance.

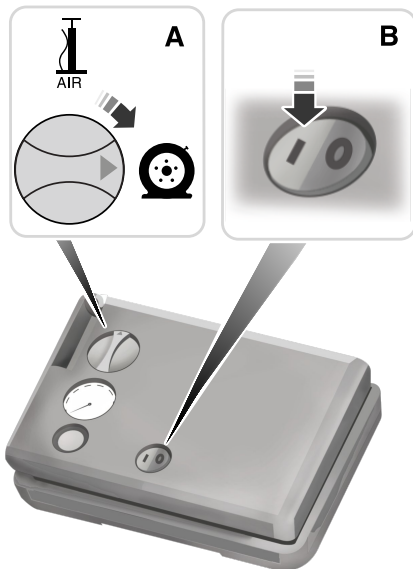
1. Remove the valve cap from the tire valve.
2. Unwrap the dual purpose hose (black tube) from the back of the compressor housing.
3. Fasten the hose to the tire valve by turning the connector clockwise. Tighten the connection securely.



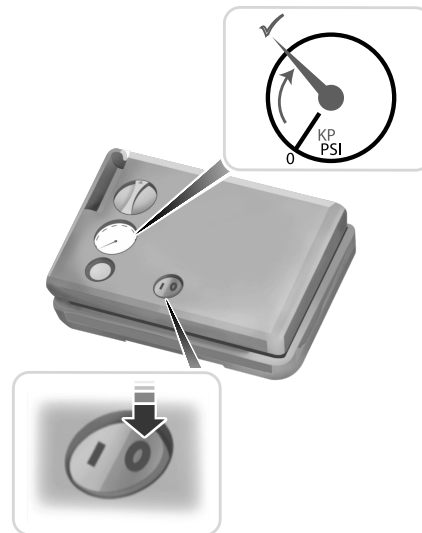
4. Plug the power cable into the 12-volt power point in the vehicle.

Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)

5. Remove the warning sticker found on the casing/housing and place it on the top of the instrument panel or the center of the dash.



6. Turn dial (A) clockwise to the sealant position. Turn the kit on by pressing the on/off button (B).
7. Inflate the tire to the pressure listed on the tire label located on the driver door or the door jamb area. Check the final tire pressure with the compressor turned off to get an accurate pressure reading.



Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)

- When the recommended tire pressure is reached, turn off the kit, unplug the power cable, and disconnect the hose from the tire valve. Re-install the valve cap on the tire valve and return the kit to the rear of the vehicle.
- Drive the vehicle 4 mi (6 km) to distribute the sealant evenly inside the tire.

Note: *If you experience any unusual vibration, ride disturbance or noise while driving, reduce your speed until you can safely pull off to the side of the road to call for roadside assistance. Do not proceed to the second stage of this operation.*

Second Stage: Checking the tire pressure with the inflator kit



WARNING: If the tire does not inflate to the recommended tire pressure within 15 minutes, stop and call roadside assistance.



WARNING: The power plug may get hot after use and should be handled carefully when unplugging.

Check the air pressure of your tires as follows:

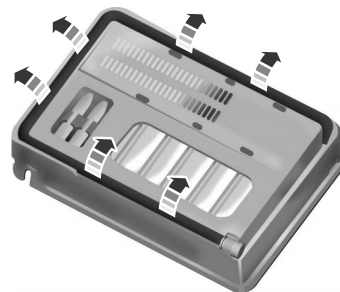


- Remove the valve cap from the tire valve.
- Firmly screw the air compressor hose onto the valve stem by turning clockwise.
- Push and turn the dial clockwise to the air position.
- If required, turn on the compressor and adjust the tire to the recommended inflation pressure.
- Unplug the hoses, re-install the valve cap on the tire and return the kit to the rear of the vehicle.

What to do after the tire has been sealed

After using the kit to seal your tire, replace the sealant canister. Sealant canisters and spare parts can be obtained at an authorized dealer. Empty sealant canisters may be disposed of at home. However, canisters still containing liquid sealant should be disposed of in accordance with local waste disposal regulation.

Removal of the sealant canister from the kit



- Unwrap the dual purpose hose (black tube) from the compressor housing.

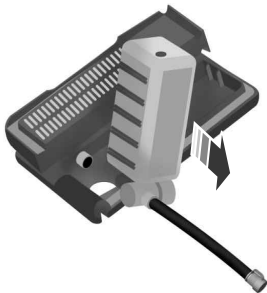
Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)



2. Unwrap the power cord.



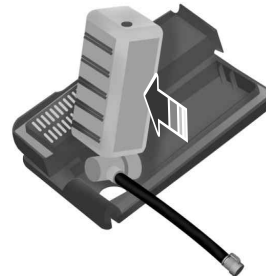
3. Remove the back cover.



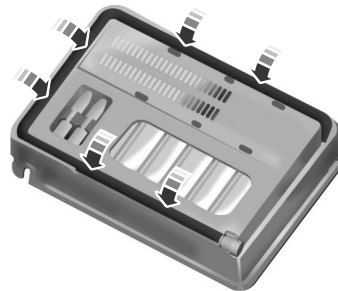
4. Rotate the sealant canister up 90 degrees and pull away from casing/housing to remove.

Installation of the sealant canister to the kit

1. With the canister held perpendicular to the housing, insert the canister nozzle into the connector and push until seated.
2. Rotate the canister 90 degrees down into the housing/casing.



3. Snap the back cover back into place.



4. Wrap the dual purpose hose (black tube) around the channel on the bottom of the housing/casing.

Tire Sealant and Inflator Kit - Plug-In Hybrid Electric Vehicle (PHEV)



5. Wrap the power cord around the housing and stow the accessory power plug.

Tire Pressure Monitoring System

WHAT IS THE TIRE PRESSURE MONITORING SYSTEM



The tire pressure monitoring system measures the vehicle's tire pressures. A warning lamp illuminates if one or more tires are significantly underinflated or if there is a system malfunction.

TIRE PRESSURE MONITORING SYSTEM OVERVIEW



WARNING: Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or blowout, with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in

heat buildup and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!



WARNING: To determine the required pressure(s) for your vehicle, see the Safety Compliance Certification Label (on the door hinge pillar, door-latch post or the door edge that meets the door-latch post, next to the driver seat) or the Tire Label on the B-Pillar or the edge of the driver door.

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires).

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Tire Pressure Monitoring System

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

This device complies with Part 15 of the FCC Rules and with License exempt RSS Standards of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

TIRE PRESSURE MONITORING SYSTEM PRECAUTIONS



WARNING: The tire pressure monitoring system is not a substitute for manually checking tire pressures. You should periodically check tire pressures using a pressure gauge. Failure to correctly maintain tire pressures could increase the risk of tire failure, loss of control, vehicle rollover and personal injury.



WARNING: Do not use the tire pressure displayed in the information display as a tire pressure gauge. Failure to follow this instruction could result in personal injury or death.



WARNING: To determine the required pressure(s) for your vehicle, see the Safety Compliance Certification Label (on the door hinge pillar, door-latch post or the door edge that meets the door-latch post, next to the driver seat) or the Tire Label on the B-Pillar or the edge of the driver door.

Tire Pressure Monitoring System

Note: The use of tire sealants can damage the tire pressure monitoring system.

Note: If the tire pressure monitor sensor becomes damaged it may not function.

TIRE PRESSURE MONITORING SYSTEM LIMITATIONS

When the outside temperature drops significantly, the tire pressure could decrease and activate the low tire pressure warning lamp.

The warning lamp could also illuminate when you use a spare wheel, or tire sealant from the inflator kit.

Note: Regularly checking the vehicle tire pressures can reduce the possibility for the warning lamp to illuminate due to outside air temperature changes.

Note: After you inflate the tires to the recommended pressure it could take up to two minutes of driving over 20 mph (32 km/h) for the warning indicator to turn off.

VIEWING THE TIRE PRESSURES



To view the current tire pressures, use the information display or touchscreen.

TIRE PRESSURE MONITORING SYSTEM – TROUBLESHOOTING

TIRE PRESSURE MONITORING SYSTEM – WARNING LAMPS



The low tire pressure warning lamp has combined functions, as it warns you when your tires need air, and when the system is no longer capable of functioning as intended.

Tire Pressure Monitoring System

Warning Lamp	Possible Cause	Action Required
Solid warning lamp	One or more tires are significantly under inflated	After inflating your tires to the manufacturer's recommended pressure as shown on the tire label, on the edge of driver door or the B-pillar, drive your vehicle for at least two minutes over 20 mph (32 km/h) before the light turns off.
Solid warning lamp or flashing warning lamp	Temporary spare wheel in use	Repair the damaged road wheel and tire and refit it to your vehicle to restore operation of the system.
	Tire pressure monitoring system malfunction	If the tires are inflated to the recommended tire pressures and the temporary spare wheel is not in use, the system detected a fault that requires service. Have your vehicle checked as soon as possible.


Tire Pressure Monitoring System


TIRE PRESSURE MONITORING SYSTEM – INFORMATION MESSAGES


Message	Action
Tire Pressure Low	After inflating your tires to the manufacturer’s recommended pressure as shown on the tire label, on the edge of the driver door or the B-pillar, drive your vehicle for at least two minutes over 20 mph (32 km/h) before the light turns off.
Tire Pressure Monitor Fault	The system has detected a fault that requires service. Have your vehicle checked as soon as possible.
Tire Pressure Sensor Fault	The system has detected a fault that requires service or a spare tire is in use. Have your vehicle checked as soon as possible.


Changing a Road Wheel (If Equipped)


CHANGING A FLAT TIRE


 **WARNING:** Failure to follow these guidelines could result in an increased risk of loss of vehicle control, injury or death.

 **WARNING:** Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to not obstruct the flow of traffic and avoid the danger of being hit when operating the jack or changing the wheel.

 **WARNING:** Switch the ignition off and apply the parking brake. If your vehicle has a manual transmission, shift into first or reverse gear. If your vehicle has an automatic transmission, shift into park (P).

 **WARNING:** Make sure that your vehicle is on firm and level ground with the front wheels pointing straight ahead and set up a warning triangle if available.

 **WARNING:** To help prevent your vehicle from moving when changing a wheel, use an appropriate block or wheel chock to secure the wheel diagonally opposite to the wheel being changed. For example, when changing the front left wheel, place an appropriate block or wheel chock on the right rear wheel.

 **WARNING:** Do not switch off stability control or select sport mode, when using a temporary spare wheel or after repairing a tire using the temporary mobility kit.

Make sure all passengers are out of your vehicle.

If the spare wheel is the same type and size as the your vehicle road wheels, you can fit the spare wheel and continue to drive in the normal manner. We recommend that you have the damaged road wheel and tire repaired or replaced as soon as possible.

If the spare wheel is not the same type and size as your vehicle road wheels, it has a label showing the maximum driving speed limit.

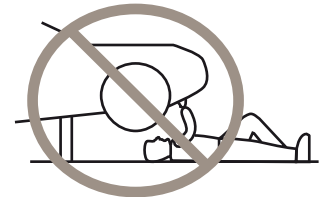
Note: Your vehicle may exhibit some different driving characteristics if you fit the spare wheel.

Note: The ground clearance of your vehicle may be reduced when the spare wheel is fitted. Take care when parking next to a curb.

Note: If the spare wheel is fitted to your vehicle, do not drive through an automatic car wash.

On Plug-in and Full Hybrid Electric Vehicles you can find the jack and wrench to the left of the spare tire.

On Non Plug-in or Full Hybrid Electric Vehicles, you can find the jack and wrench under the spare tire.



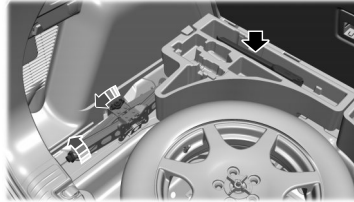
Changing a Road Wheel (If Equipped)



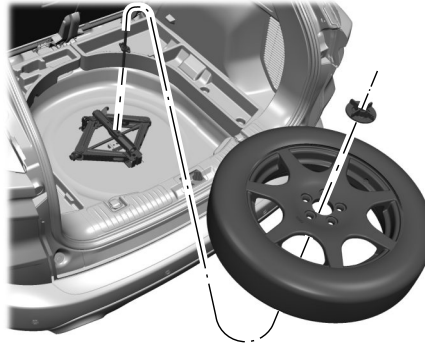
WARNING: No person should place any portion of their body under a vehicle that is supported by a jack.

Note: The jack does not require maintenance or additional lubrication over the service life of your vehicle with normal usage.

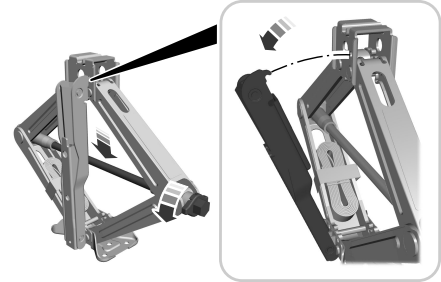
1. Park on a level surface, set the parking brake and activate the hazard flashers.
2. Place the transmission in park (P) and turn the engine off.
3. Lift and remove the carpeted cargo area floor to access the spare tire, jack and wheel nut wrench.
4. Remove the wing nut that secures the spare tire by turning it counterclockwise.
5. Remove the spare tire and jack kit from the spare tire compartment.



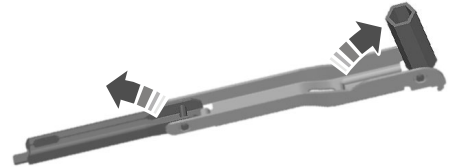
6. Remove the jack and the flat tire retainer strap from the jack base.



7. Turn the jack hex nut drive screw counterclockwise to detach the wheel nut wrench from the jack. This lowers the jack and releases the mechanical lock.

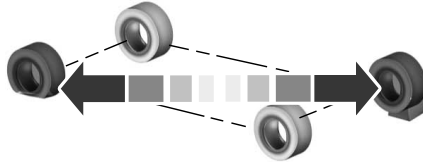


8. Unfold the wheel nut wrench for use.



9. Block the diagonally opposite wheel.

Changing a Road Wheel (If Equipped)

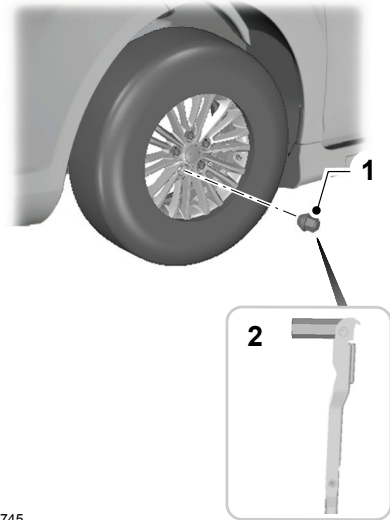


10. Loosen each wheel nut one-half turn counterclockwise, but do not remove them until the wheel is raised off the ground.

E181745



WARNING: Only use the jack provided as original equipment with your vehicle.



WARNING: The jack supplied with this vehicle is only intended for changing a flat tire in an emergency. Do not attempt to do any other work on your vehicle when it is supported by the jack, as your vehicle could slip off the jack. Failure to follow this instruction could result in personal injury or death.



WARNING: Only use the specified jacking points. If you use any other locations you could damage vehicle components, such as brake lines.



WARNING: Never place anything between the vehicle jack and the ground.



WARNING: Never place anything between the vehicle jack and your vehicle.

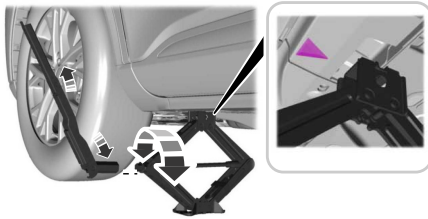
11. The vehicle jacking points shown here are also depicted on the warning label on the jack. Small arrow-shaped marks on the vehicle sills show the location of the jacking points.

Changing a Road Wheel (If Equipped)



E145908

12. Turn the wrench clockwise to raise the vehicle until the flat tire is completely off the ground.



13. Remove the wheel nuts with the wheel nut wrench.

Note: For vehicles with full wheel covers with exposed wheel nuts, remove the wheel nuts prior to removing the wheel cover or damage to the wheel cover may occur.

14. Replace the flat tire with the spare tire, making sure the valve stem is facing outward. Reinstall the wheel nuts until the wheel is snug against the hub. Do not fully tighten the wheel nuts until the wheel has been lowered.
15. Lower the wheel by turning the jack handle counterclockwise.
16. Remove the jack and fully tighten the wheel nuts in the order shown.



WARNING: Make sure there is no grease or oil on the threads or the surface between the wheel studs and the wheel nuts. This can cause the wheel nuts to loosen while driving.



WARNING: Only use the spare wheel and tire assembly provided as original equipment with your vehicle.

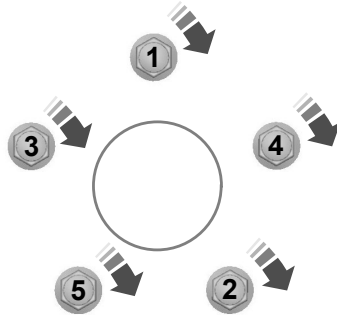


WARNING: When you install a wheel, remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Make sure to secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces of the wheel. Installing wheels without following these steps can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion, resulting in loss of vehicle control, personal injury or death.



WARNING: Have the wheel nuts checked for tightness and the tire pressure checked as soon as possible.

Changing a Road Wheel (If Equipped)



Note: To store the jack and wrench on Plug-in and Full Hybrid Electric Vehicles, fold the jack and wrench into the closed position, and place the wrench into the storage compartment. Position the jack assembly into the closed position and make sure the jack is fastened securely before you drive.

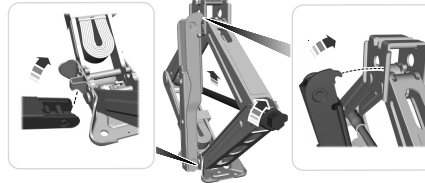
2. When attaching the folded wrench on the jack, swing the wrench upward and adjust the jack height until the wrench hook engages the hole on the jack. Tighten the hex nut clockwise until secure.

5. Stow the flat tire on the floor in the cargo area. Secure with the flat tire retainer strap by following the next steps:



Stowing the flat tire

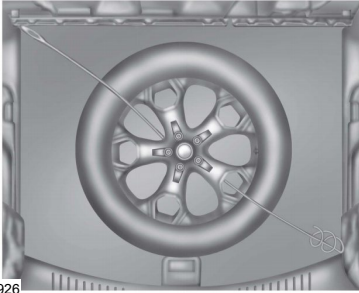
1. To store the jack kit on Non Plug-in or Full Hybrid Electric Vehicles, fold the jack and wrench handle and engage it to the bracket of the jack base using the wheel nut wrench pin.



3. Re-position the jack kit assembly into the original vehicle position and secure with the plastic wing nut. Make sure the jack is fastened securely before you drive.
4. Unblock the wheels.

6. Locate the cargo tie-down near the seatback. Push the loop of the retainer strap through the tie-down. Thread the non-loop end through the loop.

Changing a Road Wheel (If Equipped)



7. Weave the retainer strap through the wheel openings.
8. Locate the front cargo tie-down at the opposite corner of the cargo area to the tie-down used in Step 6. Thread the retainer strap through the tie-down and pull tight.
9. Secure by tying a 2-half hitch knot.

1



2



3



Changing a Road Wheel (If Equipped)

WHEEL NUTS



WARNING: When you install a wheel, remove any corrosion, dirt or foreign materials present on the mounting surfaces of the wheel or the surface of the wheel hub, brake drum or brake disc that contacts the wheel. Make sure to secure any fasteners that attach the rotor to the hub so they do not interfere with the mounting surfaces of the wheel. Installing wheels without following these steps can cause the wheel nuts to loosen and the wheel to come off while your vehicle is in motion, resulting in loss of vehicle control, personal injury or death.

Bolt size	lb.ft (Nm)
M12 x 1.5	100 lb.ft (135 Nm)

Torque specifications are for nut and bolt threads free of dirt and rust. Use only Ford recommended replacement fasteners.

Retighten the wheel nuts to the specified torque within 100 mi (160 km) after any wheel disturbance (such as tire rotation, changing a flat tire, wheel removal).

Changing a Road Wheel (If Equipped)



A Wheel pilot bore.

Inspect the wheel pilot bore and mounting surface prior to installation. Remove any visible corrosion or loose particles.

Capacities and Specifications

ENGINE SPECIFICATIONS - 2.0L ECOBOOST™

Engine	Specification
Compression ratio.	10.8:1
Displacement.	121.7 in ³ (1,995 cm ³)
Firing order.	1-3-4-2
Ignition system.	Coil on plug
Spark plug gap.	0.026–0.030 in (0.65–0.75 mm)

Capacities and Specifications

ENGINE SPECIFICATIONS - 2.5L, PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Engine	Specification
Compression ratio.	13.0:1
Displacement.	152 in ³ (2,490 cm ³)
Firing order.	1-3-4-2
Ignition system.	Coil on plug
Spark plug gap.	0.049–0.053 in (1.25–1.35 mm)

Capacities and Specifications

MOTORCRAFT PARTS - 2.0L ECOBOOST™

Component	Motorcraft Part Number
Air filter element.	FA-2064
Battery.	BAGM-94RH7-800
Cabin air filter.	FP-103
Engine oil filter. ¹	FL-2107
Spark plug.	SP-597-X
Windshield wiper blade.	WW-2765-A (driver side) WW-1814-A (passenger side) WW-1003 (rear window)

¹ If a Motorcraft oil filter is not available, use an oil filter that aligns to SAE/USCAR – 36 Performance Specifications. Filter Type B.

We recommend Motorcraft parts that are available at your authorized dealer or at www.fordparts.com. We engineer these parts for your vehicle to meet or exceed our specifications. Use of other parts could impact vehicle performance, emissions and durability. Your warranty could be void for any damage related to use of other parts.

Capacities and Specifications

MOTORCRAFT PARTS - 2.5L, PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Component	Motorcraft Part Number
Air filter element.	FA-1948
Oil filter. ¹	FL-910-S
Battery.	BAGM-48H6-760
Spark plug.	SP-530-X
Cabin air filter.	FP-103
Windshield wiper blade.	WW-2765 (driver side) WW-1814 (passenger side) WW-1003 (rear window)

¹ If a Motorcraft oil filter is not available, use an oil filter that aligns to SAE/USCAR – 36 Performance Specifications. Filter Type B.

We recommend Motorcraft parts that are available at your authorized dealer or at www.fordparts.com. We engineer these parts for your vehicle to meet or exceed our specifications. Use of other parts could impact vehicle performance, emissions and durability. Your warranty could be void for any damage related to use of other parts.

Capacities and Specifications

ENGINE OIL CAPACITY AND SPECIFICATION - 2.0L ECOBOOST™

Use oil that meets the defined specification and viscosity grade.

If you do not use oil that meets the defined specification and viscosity grade, it could result in:

- Component damage that your vehicle warranty does not cover.
- Longer engine cranking periods.
- Increased emission levels.

- Reduced vehicle performance.
- Reduced fuel economy.



An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of ILSAC.

We recommend Motorcraft motor oil for your vehicle. If Motorcraft oil is not available, use motor oils of the recommended viscosity grade that display the API Certification Mark for gasoline engines.

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that your vehicle warranty does not cover.

Capacities

Variant	Including the Oil Filter
All.	6.1 qt (5.8 L)

Capacities and Specifications

Materials

Name	Specification
Motorcraft® SAE 5W-30 Synthetic Blend Motor Oil(U.S.) Motorcraft® SAE 5W-30 Super Premium Motor Oil / Huile moteur de très haute qualité SAE 5W-30 Motorcraft®(Canada) XO-5W30-Q1SP(U.S.) CXO-5W30-LSP6(Canada)	WSS-M2C961-A1

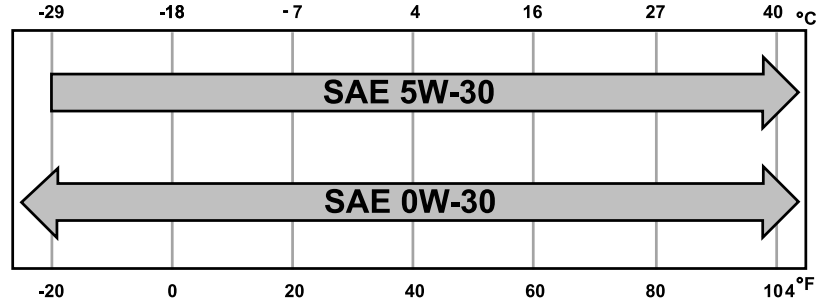
Alternative Engine Oil for Extremely Cold Climates

To improve engine cold start performance, we recommend that you use the following alternative engine oil in extremely cold climates, where the ambient temperature reaches -22.0°F (-30°C) or below.

Materials

Name	Specification
Engine Oil - SAE 0W-30 - Synthetic Blend	WSS-M2C963-A1

Capacities and Specifications



Note: If you use your vehicle regularly above the altitude of 7,500 ft (2,286 m) and under the temperature of -4.0°F (-20°C), it is recommended to use the alternative engine oil.

ENGINE OIL CAPACITY AND SPECIFICATION - 2.5L, PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Use oil that meets the defined specification and viscosity grade.

If you do not use oil that meets the defined specification and viscosity grade, it could result in:

- Component damage that your vehicle warranty does not cover.
- Longer engine cranking periods.
- Increased emission levels.
- Reduced vehicle performance.
- Reduced fuel economy.

Capacities and Specifications



An oil that displays this symbol conforms to current engine, emission system and fuel economy performance standards of ILSAC.

We recommend Motorcraft motor oil for your vehicle. If Motorcraft oil is not available, use motor oils of the recommended viscosity grade that display the API Certification Mark for gasoline engines.

Do not use supplemental engine oil additives because they are unnecessary and could lead to engine damage that your vehicle warranty does not cover.

Capacities

Variant	Including the Oil Filter
All.	5.7 qt (5.4 L)

Materials

Name	Specification
Motorcraft® SAE 0W-20 Full Synthetic Motor Oil(U.S.) (Canada) XO-0W20-QFS(U.S.)	WSS-M2C962-A1

Capacities and Specifications

COOLING SYSTEM CAPACITY AND SPECIFICATION - 2.0L ECOBOOST™

Use coolant that meets the defined specification.

If you do not use coolant that meets the defined specification, it could result in:

- Component damage that your vehicle warranty does not cover.
- Reduced vehicle performance.

Capacities

Variant	Quantity
All.	9.0 qt (8.5 L)

Materials

Name	Specification
Motorcraft® Yellow Prediluted Antifreeze/Coolant(U.S.) Motorcraft® Yellow Prediluted Antifreeze/Coolant / Antigél/liquide de refroidissement prédi-lué jaune Motorcraft®(Canada) VC-13DL-G(U.S.) CVC-13DL-G(Canada)	WSS-M97B57-A2

Capacities and Specifications

COOLING SYSTEM CAPACITY AND SPECIFICATION - 2.5L, PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Use coolant that meets the defined specification.

If you do not use coolant that meets the defined specification, it could result in:

- Component damage that your vehicle warranty does not cover.
- Reduced vehicle performance.

Capacities

Variant	Quantity
Low temperature cooling circuit.	6.6 qt (6.2 L)
High temperature cooling circuit.	10.1 qt (9.6 L)

Materials

Name	Specification
Motorcraft® Yellow Prediluted Antifreeze/Coolant(U.S.) Motorcraft® Yellow Prediluted Antifreeze/Coolant / Antigél/liquide de refroidissement prédilué jaune Motorcraft®(Canada) VC-13DL-G(U.S.) CVC-13DL-G(Canada)	WSS-M97B57-A2

Capacities and Specifications

FUEL TANK CAPACITY - EXCLUDING: PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Capacities

Variant	Quantity
2.0L	16.9 gal (64 L)

Capacities and Specifications

FUEL TANK CAPACITY - PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

Capacities

Variant	Quantity
PHEV.	11.1 gal (42 L)

Capacities and Specifications

AIR CONDITIONING SYSTEM CAPACITY AND SPECIFICATION - 2.0L ECOBOOST™



WARNING: The air conditioning refrigerant system contains refrigerant

under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Use refrigerant and oil that meets the defined specifications.

If you do not use refrigerant and oil that meets the defined specifications, it could result in:

- Component damage that your vehicle warranty does not cover.
- Reduced vehicle performance.

Capacities

Variant	Refrigerant	Refrigerant Oil
All.	19.4 oz (0.55 kg)	3.4 fl oz (100 ml)

Capacities and Specifications

Materials

Name	Specification
R-1234yf Refrigerant(U.S.) R-1234yf Refrigerant / Frigorigène R-1234yf(Canada) YN-33-A(U.S.) HS7Z-19B519-BA(Canada)	WSS-M17B21-A
Motorcraft® R-1234yf Refrigerant PAG Oil(U.S.) Motorcraft® R-1234yf Refrigerant PAG Oil / Huile PAG pour frigorigène R-1234yf Motorcraft®(Canada) YN-35(U.S. & Canada)	WSS-M2C300-A2

Capacities and Specifications

AIR CONDITIONING SYSTEM CAPACITY AND SPECIFICATION - 2.5L, PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)



WARNING: The air conditioning refrigerant system contains refrigerant under high pressure. Only qualified personnel should service the air conditioning refrigerant system. Opening the air conditioning refrigerant system can cause personal injury.

Use refrigerant and oil that meet the defined specifications.

If you do not use refrigerant and oil that meet the defined specifications, it could result in:

- Component damage that your vehicle warranty does not cover.
- Reduced vehicle performance.

Capacities

Variant	Refrigerant	Refrigerant Oil
All.	19.4 oz (0.55 kg)	4.7 fl oz (140 ml)

Capacities and Specifications

Materials

Name	Specification
R-1234yf Refrigerant(U.S.) R-1234yf Refrigerant / Frigorigène R-1234yf(Canada) YN-33-A(U.S.) HS7Z-19B519-BA(Canada)	WSS-M17B21-A
Motorcraft® R-1234yf Refrigerant POE Oil(U.S.) Motorcraft® R-1234yf Refrigerant POE Oil / Huile POE pour frigorigène R-1234yf Motorcraft®(Canada) YN-34(U.S. & Canada)	WSS-M2C31-B2

WASHER FLUID SPECIFICATION

Capacities

Variant	Quantity
All.	Fill as required.

Capacities and Specifications

Materials

Name	Specification
Motorcraft® Premium Windshield Wash Concentrate with Bitterant(U.S.) Motorcraft® Premium Quality Windshield Washer Fluid / Liquide lave-glace de haute qualité Motorcraft®(Canada) ZC-32-B2(U.S.) CXC-37-F/M(Canada)	WSS-M14P19-A

BRAKE FLUID SPECIFICATION

Use fluid that meets the defined specification and viscosity grade.

If you do not use fluid that meets the defined specification and viscosity grade, it could result in:

- Component damage that your vehicle warranty does not cover.
- Reduced brake performance.

Note: We recommend you use Dot 4 Low Viscosity (LV) High Performance Brake Fluid meeting WSS-M6C65-A2 specifications or ISO 4925 Class 6 standards. If you use any fluid other than the recommended fluid, it could cause reduced brake performance and not meet our performance standards. Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials could result in brake system damage and possible failure.

Capacities

Variant	Quantity
All.	Fill as required.

Capacities and Specifications

Materials

Name	Specification
Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid(U.S.) Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid / Liquide de frein automobile haute performance DOT 4 LV Motorcraft®(Canada) PM-20(U.S. & Canada)	WSS-M6C65-A2

Connected Vehicle

WHAT IS A CONNECTED VEHICLE

A connected vehicle has technology that allows your vehicle to connect to a mobile network and for you to access a range of features. When used in conjunction with the Lincoln Way app, it could allow you to monitor and control your vehicle further, for example checking the tire pressures, and the vehicle location. For additional information, refer to the local Lincoln website.

CONNECTED VEHICLE REQUIREMENTS

Connected service and related feature functionality requires a compatible vehicle network.

Some remote features require a subscription. For additional information, see the Lincoln Way app. Some restrictions, third party terms and message or data rates may apply.

CONNECTED VEHICLE LIMITATIONS

Evolving technology, cellular networks, or regulations could affect functionality and availability, or continued provision of some features. These changes could even stop some features from functioning.

CONNECTING THE VEHICLE TO A MOBILE NETWORK

WHAT IS THE MODEM



The modem allows access to a range of features built into your vehicle.

ENABLING AND DISABLING THE MODEM

1. Press **Settings**.
2. Press **Connectivity**.
3. Press **Connected Vehicle Features**.

4. Switch vehicle connectivity on or off.

CONNECTING LINCOLN WAY TO THE MODEM

1. Make sure that the modem is enabled using the vehicle settings menu.
2. Open the Lincoln Way app on your device and log in.
3. Add your vehicle or select your vehicle if already added.
4. Select the option for vehicle details.
5. Select the option to activate your vehicle.
6. Make sure that the name on the screen matches the name shown in your Lincoln Way account.
7. Confirm that your Lincoln Way account is connected to the modem.

CONNECTING THE VEHICLE TO A WI-FI NETWORK



Select the settings option on the feature bar.

Connected Vehicle

1. Press **Connectivity**.
2. Press **Manage Wi-Fi Networks**.
3. Switch **Wi-Fi** on.
4. Press **View Available Networks**.
5. Select an available Wi-Fi network.

Note: *Enter the network password to connect to a secure network.*

CONNECTED VEHICLE – TROUBLESHOOTING

CONNECTED VEHICLE – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: MODEM

Why can I not confirm the connection of my Lincoln Way account to the modem?

- The modem is not enabled. Switch vehicle connectivity on.
- The network signal is weak. Move your vehicle closer to a place where the network signal is not obstructed.

Connected Vehicle

CONNECTED VEHICLE – FREQUENTLY ASKED QUESTIONS - VEHICLES WITH: SYNC

Symptom	Possible Cause and Resolution
I cannot connect to a Wi-Fi network.	<ul style="list-style-type: none">– Password error.<ul style="list-style-type: none">• Enter the correct network password.– Weak network signal.<ul style="list-style-type: none">• Move your vehicle closer to the Wi-Fi hotspot or to a place where the network signal is not obstructed.– Multiple access points in range with the same SSID.<ul style="list-style-type: none">• Use a unique name for your SSID. Do not use the default name unless it contains a unique identifier, for example as part of the MAC address.
The Wi-Fi connection disconnects after successful connection.	<ul style="list-style-type: none">– Weak network signal.<ul style="list-style-type: none">• Move your vehicle closer to the Wi-Fi hotspot or to a place where the network signal is not obstructed.
I am close to a Wi-Fi hotspot but the network signal strength is weak.	<ul style="list-style-type: none">– Obstructed network signal.<ul style="list-style-type: none">• If your vehicle has a heated windshield, position your vehicle so that the windshield is not facing the Wi-Fi hotspot.• If your vehicle has metallic tinting on the windows but not on the windshield, position your vehicle so that the windshield is facing the Wi-Fi hotspot or open the windows that are facing the hotspot.• If your vehicle has metallic tinting on the windows and the windshield, open the windows that are facing the hotspot.

Connected Vehicle

Symptom	Possible Cause and Resolution
	<ul style="list-style-type: none">• If your vehicle is in a garage and you have the garage door closed, open the garage door.
I cannot see a network in the list of available networks that I expect to see.	<ul style="list-style-type: none">– Hidden network.<ul style="list-style-type: none">• Make the network visible and try again.
I cannot see the Wi-Fi hotspot name when I search for Wi-Fi networks on my cell phone or other device.	<ul style="list-style-type: none">– System limitation.<ul style="list-style-type: none">• Make sure Wi-Fi hotspot visibility is on.• The system does not provide a Wi-Fi hotspot at this time.
Software downloads take too long.	<ul style="list-style-type: none">– Weak network signal.<ul style="list-style-type: none">• Move your vehicle closer to the Wi-Fi hotspot or to a place where the network signal is not obstructed.– Wi-Fi hotspot in high demand or has a slow Internet connection.<ul style="list-style-type: none">• Use a more reliable Wi-Fi hotspot.
The system seems to connect to a Wi-Fi network and the signal strength is excellent but the software does not update.	<ul style="list-style-type: none">– No software update available.– Wi-Fi network requires a subscription or acceptance of terms and conditions.<ul style="list-style-type: none">• Test the connection using another device. If the network requires a subscription or acceptance of terms and conditions, contact the network service provider.

Connected Vehicle

CONNECTED VEHICLE VIDEOS

[*Lincoln Way App Overview Video Link*](#)

[*Lincoln Way: Vehicle Details Overview Video Link*](#)

[*How to Activate Lincoln Connect Video Link*](#)

Vehicle Wi-Fi Hotspot

CREATING A VEHICLE WI-FI HOTSPOT

You can create a Wi-Fi hotspot in your vehicle and allow devices to connect to it for access to the Internet.



Select the settings option on the feature bar.

1. Press **Vehicle Hotspot**.

Note: The vehicle hotspot default setting is on.

2. Press **Settings**.
3. Press **Edit**.
4. Press **Hotspot visibility**.

Note: The hotspot visibility default setting is on.

Finding the Wi-Fi Hotspot Name and Password



Select the settings option on the feature bar.

1. Press **Vehicle Hotspot**.

2. Press **Settings**.

Note: The network name is the hotspot name.

3. Press **View Password**.

Connecting a Device to the Wi-Fi Hotspot

1. On your device, switch Wi-Fi on and select the hotspot from the list of available Wi-Fi networks.
2. When prompted, enter the password.

Purchasing a Data Plan

1. Connect a device to the hotspot.

Note: The vehicle network carrier's portal opens on your device.

2. If the portal does not open on your device, open a website and it redirects to the vehicle network carrier's portal.

Note: Secure websites do not redirect.

3. Follow the instructions on the carrier portal to purchase a plan.

Note: If you have an active plan, the system does not redirect to the vehicle network carrier's portal when you connect a device. Visit the vehicle network carrier's website to purchase more data.

Note: If data usage information is available in the vehicle hotspot menu, it is approximate.

Note: If you carry out a master reset, the system does not remove your vehicle from your vehicle network carrier's account. To remove your vehicle from the account, contact your vehicle network carrier.

Note: The vehicle network carrier provides Vehicle Hotspot services, subject to your vehicle network carrier agreement, coverage and availability.

CHANGING THE VEHICLE WI-FI HOTSPOT NAME OR PASSWORD



Select the settings option on the feature bar.

1. Press **Vehicle Hotspot**.

Vehicle Wi-Fi Hotspot

2. Press **Settings**.
3. Press **Edit**.
4. Press **Change Network Name**.
5. Enter your required network name.
6. Press **Done**.
7. Press **Change Password**.
8. Enter your required password.
9. Press **Done**.

Changing the Wi-Fi Hotspot Frequency

Note: *The vehicle hotspot frequency band is selectable depending upon your device capabilities. You will not be able to connect your device to the vehicle hotspot if it does not support the selected frequency band.*



Select the settings option on the feature bar.

1. Press **Vehicle Hotspot**.
2. Press **Settings**.
3. Press **Edit**.
4. Select a frequency.

VEHICLE WI-FI HOTSPOT – TROUBLESHOOTING

VEHICLE WI-FI HOTSPOT – FREQUENTLY ASKED QUESTIONS

Why can I not see the Wi-Fi hotspot name when I search for Wi-Fi networks on my cell phone or other device?

- Make sure Wi-Fi hotspot visibility is on.
- The system does not provide a Wi-Fi hotspot at this time.
- Check what frequency the hotspot is transmitting in the vehicle hotspot settings menu. If the frequency is 5 GHz and your device cannot see the network, change the frequency to 2.4 GHz.

Audio System

AUDIO SYSTEM PRECAUTIONS



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Listening to loud audio for long periods of time could damage your hearing.

SWITCHING THE AUDIO UNIT ON AND OFF



Press the button on the volume control.

SELECTING THE AUDIO SOURCE

Audio Unit



Press the button to open the media source menu.

You can press this multiple times to change to the audio source or scroll through the media sources.

Touchscreen

Press **Sources** on the touchscreen to open the media source menu.

PLAYING OR PAUSING THE AUDIO SOURCE

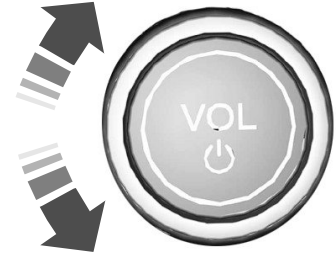
Touchscreen



Press to pause playback. Press again to resume playback.

Note: *Not all sources can be paused.*

ADJUSTING THE VOLUME



Turn to adjust the volume.

Some vehicles may be able to adjust the volume using buttons on the steering wheel.

Audio System

SWITCHING SHUFFLE MODE ON AND OFF



Press the button on the touchscreen to switch shuffle mode on or off.

Note: *Not all sources have shuffle mode.*

SWITCHING REPEAT MODE ON AND OFF



Press the button on the touchscreen to switch repeat mode on or off.

Note: *Not all sources have repeat mode.*

SETTING A MEMORY PRESET

1. Select a station or channel.
2. Press and hold a memory preset button on the touchscreen.

Note: *The audio mutes briefly while the system saves the preset and returns once it is stored.*

Note: *You can save presets from multiple sources to the memory preset bar.*

MUTING THE AUDIO



Press the button on the steering wheel to mute the audio.



Press to mute the signal. Press again to restore the signal.

ADJUSTING THE SOUND SETTINGS

Balance and Fade (If Equipped)

1. Press **Settings** on the touchscreen.
2. Press **Sound Settings**.
3. Press **Balance / Fade**.
4. Press the arrows to adjust the settings.

Tone Settings

1. Press **Settings** on the touchscreen.
2. Press **Sound Settings**.

3. Press **Tone Settings**.
4. Press the arrows or slider bar to adjust the settings.

Speed Compensated Volume

1. Press **Settings** on the touchscreen.
2. Press **Sound Settings**.
3. Press **Speed Compensated Volume**.
4. Press a setting.

Occupancy Mode (If Equipped)

1. Press **Settings** on the touchscreen.
2. Press **Sound Settings**.
3. Press **Occupancy Mode**.
4. Press a setting.

Sound Mode (If Equipped)

1. Press **Settings** on the touchscreen.
2. Press **Sound Settings**.
3. Press **Sound Mode**.
4. Press a setting.

Audio System

SETTING THE CLOCK AND DATE

1. Press **Settings** on the touchscreen.
2. Press **Clock Settings**.
3. Set the time.

Note: The **AM** and **PM** options are not available if **24-hour mode** is on.

Switching Automatic Time Updates On and Off

1. Press **Settings** on the touchscreen.
2. Press **Clock Settings**.
3. Switch **Auto Time Update** on or off.

AM/FM RADIO

AM/FM RADIO LIMITATIONS

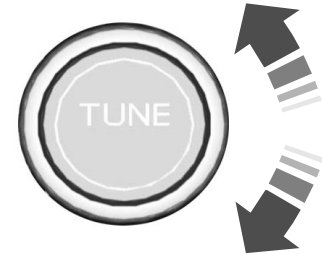
The further you travel from an AM or FM station, the weaker the signal and the weaker the reception.

Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with the reception.

When you pass a ground-based broadcast repeating tower, a stronger signal may overtake a weaker one and result in the audio system muting.

SELECTING A RADIO STATION

Manually Selecting a Radio Station



Turn to search through the radio frequency band.

Using Direct Tune

1. Press **Direct Tune** to open the number pad.
2. Enter the station you prefer.

Audio System

Note: You can only enter a valid station for the audio source you are currently listening to.

Using Seek



Press either button. The system stops at the first station it finds in that direction.



Using the Station List

1. Press **Browse**.

Note: Available on FM radio only.

2. Press a station.

SWITCHING THE DISPLAY ON AND OFF

Audio Unit



Press the button.

Touchscreen

To switch the display off:

1. Press **Settings** on the touchscreen.
2. Press **Display Settings**.
3. Press **Display Off**.

Note: The display defaults to on each time you switch your vehicle on.

To switch the display on, press anywhere on the touchscreen.

DIGITAL RADIO (IF EQUIPPED)

WHAT IS DIGITAL RADIO

HD Radio™ technology is the digital evolution of analog AM/FM radio.

For additional information, visit www.HDRadio.com.

HD Radio Technology is manufactured under license from iBiquity Digital Corporation and foreign patents. HD Radio and the HD and HD Radio logos are proprietary trademarks of XPERI. The vehicle manufacturer and XPERI are not responsible for the content sent using HD Radio technology. Content may be changed, added or deleted at any time at the station owner's discretion.

HOW DOES DIGITAL RADIO WORK

Your system has a special receiver that allows it to receive digital broadcasts in addition to analog broadcasts.

HD1 signifies the main programming status and is available in both analog and digital broadcasts. Other multicast stations are only available digitally and could contain new or different content.

Note: When the system first receives an HD1 station, it plays the station in the analog version until it verifies the station is an HD Radio station. Then it shifts to the digital version.

Audio System

Note: *There is an audio mute delay when switching to an HD2 or HD3 station because the system has to reacquire and decode the digital signal.*

DIGITAL RADIO LIMITATIONS

If you are outside the reception area, the system could not work.

If you are on the fringe of the reception area, the station could mute due to weak signal strength.

Note: *If you are listening to HD1, the system changes back to the analog broadcast until the digital broadcast is available again. If you are listening to any other multicast channels, the station mutes and stays muted unless it is able to connect to the digital signal again.*

Depending on the station quality, you could hear a slight sound change when the station changes between analog and digital audio.

You cannot access a saved HD station if your vehicle is outside the station's reception area.

SWITCHING DIGITAL RADIO RECEPTION ON AND OFF

1. Press **Settings** on the touchscreen.
2. Press **Radio Settings**.
3. Switch **AM HD Radio** or **FM HD Radio** on or off.

DIGITAL RADIO INDICATORS

HD Radio Indicator

The indicator appears when HD Radio is on and you tune to a station broadcasting HD Radio technology.



The color of the indicator changes to indicate the system status.

Gray indicates the system is acquiring a digital station.

Orange indicates digital audio is playing.

Multicast Indicator

The multicast indicator appears if the current station is broadcasting multiple digital broadcasts. The highlighted numbers indicate additional digital channels available.

Note: *For stations that have more than one HD multicast, the HD indicator and radio text appears as a button. Press the button to cycle through all of the HD stations on that specific frequency.*

SATELLITE RADIO (IF EQUIPPED)

WHAT IS SATELLITE RADIO

Your factory-installed SiriusXM radio system includes a limited subscription term, which begins on the date of sale or lease of your vehicle. See an authorized dealer for availability.

Audio System

For additional information about extended subscription terms, visit www.SiriusXM.com in the United States, www.SiriusXM.ca in Canada, or call SiriusXM at 1-888-539-7474.

Note: *SiriusXM reserves the unrestricted right to change, rearrange, add or delete programming including canceling, moving or adding particular channels, and its prices, at any time, with or without notice to you. Neither SiriusXM and its affiliates nor Ford Motor Company and its affiliates will be liable to you or any third party for any such modification, suspension or termination.*

SATELLITE RADIO LIMITATIONS

For optimal reception performance, keep the antenna clear of snow and ice build-up and keep luggage and other material as far away from the antenna as possible. Placing luggage over the antenna may reduce performance. Factory-installed and aftermarket vehicle structures including, but not limited to, roof racks and soft top roofs in a partially open position could reduce reception performance.

Hills, mountains, tall buildings, bridges, tunnels, freeway overpasses, parking garages, dense tree foliage and thunderstorms can interfere with your reception.

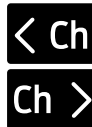
When you pass a ground-based broadcast-repeating tower, a stronger signal may overtake a weaker one and could result in the audio system muting. Your display could show an error message to indicate the interference.

LOCATING THE SATELLITE RADIO IDENTIFICATION NUMBER

1. Select SiriusXM as the audio source.
2. Tune to channel 0.

SELECTING A CHANNEL

Manually Selecting a Channel



Press the button to find the previous or next available radio channel.

Linear Tuner

The linear tuner is displayed when manually selecting a channel. You can swipe left or right on the linear tuner carousel to navigate through the channel list. Tap on a channel title to listen to it.

Using Direct Tune

1. Press the channel up or down button to open the linear tuner screen.
2. Press **Direct Tune** to open the number pad.
3. Enter the channel you prefer.

Using Seek



Press either button.

Using the Channel List

1. Press **Browse**.
2. Select a channel.

Audio System

SATELLITE RADIO SETTINGS

Subscription

Your subscription status is displayed. You can subscribe or manage your subscription directly from the touchscreen.

SiriusXM Favorites

While you are listening to SiriusXM, you can save favorites by:

- Tapping the currently tuned channel or show logo on the SiriusXM audio screen.
- Tuning to a channel or show you want to save as a favorite. Navigate to the SiriusXM Favorites screen and press the Add Current button. The currently tuned channel or show is saved as a favorite.
- Saving a radio preset. This saves the currently tuned SiriusXM channel or show as a favorite

Note: Requires a trial or active subscription to use.

Listening History

Listening history is a list of recently listened to SiriusXM content. You can view, manage and reset the listening history using the controls on the touchscreen.

Note: Requires a trial or active subscription to use.

Help and Support

You can contact SiriusXM Customer Care directly from SYNC and view information required to manage your SiriusXM account.

SETTING AN ALERT



Set a notification for the current song, artist, or sports team by pressing the icon. The system alerts you when it plays again on any channel. Selecting this button allows you to enable and edit alerts.

Note: Notifications can be switched on or off and edited in the satellite radio settings.

Audio System

AUDIO SYSTEM – TROUBLESHOOTING (IF EQUIPPED)

AUDIO SYSTEM – INFORMATION MESSAGES

Satellite Radio Troubleshooting

Error Message	Potential Effects	Recommended Action
Connectivity Disabled	Internet streaming and On Demand shows are unavailable and some SiriusXM features are disabled.	Internet connectivity is turned off. See Connected Vehicle (page 514).
No Internet	Audio system may mute. Switch to Satellite button may be displayed on the SiriusXM audio screen if the channel is also available via satellite.	SYNC attempts to connect. See Satellite Radio Limitations (page 526). Switch to a satellite connection for the current channel if the option is available.
No Satellite Signal	Audio system may mute. Switch to Internet button may be displayed on the SiriusXM audio screen if the channel is also available via streaming.	Antenna may be obstructed or satellite reception is weak in your location. See Satellite Radio Limitations (page 526). Switch to an internet connection for the current channel if the option is available.
Slow Network Connection	Audio system may mute while the audio attempts to load.	Allow some time for the audio to load or tune to a different channel.

Audio System

Error Message	Potential Effects	Recommended Action
Channel Unavailable	Audio system may mute. Radio may tune to a different channel.	A temporary update may be in progress. Allow some time before retrying to tune to the channel. If the issue continues, the channel may no longer be available.
Episode Unavailable	Audio system may mute. Radio may tune to a different channel.	A temporary update may be in progress. Allow some time before retrying to play the episode. If the issue continues, the episode may no longer be available.
Something went wrong	Audio system may mute. Radio may tune to a different channel.	Allow some time and retry the action.
Subscribe to Listen	Cannot listen to selected content. Content may appear grayed out and some features may be disabled.	<p>Your subscription has expired or you have not yet subscribed for access to the listed content. Navigate to Subscription under the Satellite Radio Settings menu. If you have an active subscription which includes the listed channel or content and you see this error, you may need to refresh your radio. To refresh your SiriusXM radio, visit www.siriusxm.com/refresh in the US, or www.siriusxm.ca/refresh in Canada.</p> <p>You may need to provide your SiriusXM Radio identification number. See Locating the Satellite Radio Identification Number (page 526).</p>

Audio System

Error Message	Potential Effects	Recommended Action
Upgrade to Listen	Cannot listen to selected content. Content may appear grayed out and some features may be disabled.	Your subscription does not include access to the listed content. You may need to upgrade your subscription. Navigate to Subscription under the Satellite Radio Settings menu. If you have an active subscription which includes the listed channel or content and you see this error, you may need to refresh your radio. To refresh your SiriusXM radio, visit www.siriusxm.com/refresh in the US, or www.siriusxm.ca/refresh in Canada. You may need to provide your SiriusXM Radio identification number. See Locating the Satellite Radio Identification Number (page 526).
Location Restricted Content	Audio may mute. Not available in your location or Unable to determine your location may be displayed.	Content is not available in your location or SiriusXM is unable to determine your location. Tuning to a different channel may resolve the issue.
Channel Blocked	Audio may mute. Radio may tune to a different channel.	The Block Explicit Content filter is turned on. Navigate to Listener Settings under the Satellite Radio Settings menu to access the Block Explicit Content filter. Navigate to Listener Settings. See Satellite Radio Settings (page 527).

Audio System

Error Message	Potential Effects	Recommended Action
Antenna Problem or Hardware Problem	Audio may mute. Access to SiriusXM features may be unavailable.	If issue persists, you may need to visit an authorized dealer for service.
SiriusXM Updating...	Audio may mute.	Allow SiriusXM some time to complete updating.
Loading...	Audio may mute. Content may be temporarily unavailable while loading.	No action necessary. If loading time is longer than usual, See Satellite Radio Settings (page 527).
SiriusXM Loading...	Audio may mute. Content and controls may be temporarily unavailable.	No action necessary. Allow SiriusXM some time to finish loading.

AUDIO SYSTEM VIDEOS

[Lincoln SiriusXM with 360L Video Link](#)

Center Display Overview

CENTER DISPLAY PRECAUTIONS



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

CENTER DISPLAY LIMITATIONS

Speed-restricted Features

For your safety, some features are not available while the vehicle is in motion at or above 5 mph (8 km/h). Settings that are not critical while driving your vehicle are shown as restricted on your display. Some of these settings include:

- Software updates.
- Personal profiles setup.
- Valet mode setup.
- Driver assistance settings.
- Door keypad code setup.

These restricted features become available when your vehicle is no longer in motion.

STATUS BAR

The bar is on top of the display and indicates the status of your vehicle's features.

Audio System



Audio system muted.

Connected Device



Cell phone microphone muted.



Phone call in progress.



Media player connected using **Bluetooth®**.



Cell phone network signal strength.



Cell phone roaming.



Text message received.



Unread email message.



Automatic crash notification system off.



Cell phone battery status.

Vehicle Data



Wi-Fi available.



Wi-Fi connected.

Center Display Overview



Vehicle data sharing on.



Vehicle data sharing off.



Vehicle location sharing on.



Vehicle data and vehicle location sharing on.

Vehicle Software Update

See **Software Update Indicators** (page 555).

Wireless Accessory Charger



Wireless accessory charger active.

HOME SCREEN

Features, such as navigation, audio and phone, are located in the main portion of the display. The icons located on the side of the display allow you to access other vehicle features and settings.



Press to adjust system settings.



Press to view features.

Note: *The icon may be different depending on your vehicle.*



Press to search for and use compatible apps on your iOS or Android device.

INFORMATION ON DEMAND SCREEN

The information on demand screen displays cards on the side of the display and allows you to see information from different features.

You can swipe up or down to view a different card.

You can swipe toward the main screen to move the content into the main screen.

Note: *This can only be done with some information on demand screens.*

REBOOTING THE CENTER DISPLAY

You can reboot the center display using the controls on the steering wheel.

1. Simultaneously press and hold the seek forward and audio system power button for 10 seconds.

CENTER DISPLAY OVERVIEW VIDEOS

[Lincoln SYNC 4 Basics Video Link](#)

Voice Interaction

LINCOLN PERSONAL ASSISTANT

USING LINCOLN PERSONAL ASSISTANT

The digital assistant allows you to control vehicle features using conversational requests.

To begin a voice interaction using the wake word, say the selected wake word, then say your command.



Press the voice interaction button on the steering wheel. A tone sounds before you can say your command.

Note: You may need to enable your vehicle's modem to use certain voice commands. See **Enabling and Disabling the Modem** (page 514).

Note: When you are not driving, additional commands are available by using popular chat applications. Use *LincolnWay* to setup a conversation with your Lincoln assistant.

Voice Command Examples

To see examples of what voice commands you can use with different features:



Press the button on the touchscreen.

1. Press **Lincoln Assistant**.
2. Press **Voice Command Help**.
3. Select a feature.

LINCOLN PERSONAL ASSISTANT SETTINGS

To access the settings menu:



Press the button on the touchscreen.

1. Press **Lincoln Assistant**.

From the settings menu you can do the following:

- Switch listen for wake word on or off.
- Set the preferred wake word.
- Switch advance mode on or off.
- Switch phone confirmation on or off.

- Switch the commands list on or off.
- View the commands help menu.



Press the button next to a menu option for more information.

LINCOLN PERSONAL ASSISTANT – FREQUENTLY ASKED QUESTIONS

Why does the system not understand what I am saying?

- You are speaking too soon. When using the button of the steering wheel, wait for the tone before you speak.

Voice Interaction

Why does the system not understand the name of a track or artist?

- **Bluetooth®** does not support voice commands. Connect your device to a USB port.
- You are not saying the name exactly as it appears on your device. Say the name of the track or artist exactly as it appears on your device. Spell out any abbreviations in the name.
- The system does not recognize some special characters contained in the name of a song or artist, for example *, - or +. Rename the files on your device or use the touchscreen to select and play the track.

Why does the system not understand the name of a contact in the phonebook on my device and calls the wrong contact?

- You are not saying the name exactly as it appears on your device. Say the first and last name of the contact exactly as it appears on your device. Spell out any abbreviations in the name.
- The name contains special characters, for example *, - or +. Rename the contact on your device or use the touchscreen to select and call the contact.

Why does the system not understand foreign names of contacts in the phonebook on my device?

- The system applies phonetic pronunciation rules of the selected language to the names of contacts in the phonebook on your device. Select the name of the contact on the touchscreen and use the Hear it option to get an idea of how the system expects you to pronounce it.

Why do the system voice prompts and the pronunciation of some words not seem accurate?

- The system uses text-to-speech technology and a synthetically generated voice rather than a pre-recorded human voice.

Alexa Built-In

WHAT IS ALEXA BUILT-IN

Allows you to use Alexa in your vehicle for auto specific use cases on the road and gives you access to an ever evolving number of skills that help to make your life more productive, entertaining, and connected while using your vehicle.

ALEXA BUILT-IN REQUIREMENTS

To use Alexa, all of the following must occur:

- Your vehicle modem is enabled.
- You are logged into an existing Amazon account.
- Vehicle location services are enabled.
- Vehicle connectivity and vehicle data sharing is enabled.

SIGNING INTO YOUR ACCOUNT



Press the button in the status bar and follow the on-screen prompts.

To sign in using the settings menu:

1. Press **Settings** on the touchscreen.
2. Press **Amazon Alexa**.
3. Press **Get Started**.
4. Sign into your account by either scanning the QR code or entering the on-screen code into the Amazon website.
5. Once logged in, follow the on-screen prompts.
6. When complete, the vehicle informs you that Alexa is ready to be used in the vehicle.

Signing Out of Your Account

1. Press **Settings** on the touchscreen.
2. Press **Amazon Alexa**.
3. Press **Sign Out**.

USING ALEXA BUILT-IN

To use Alexa, say “Alexa” or press the voice interaction button on the steering wheel and then say “Alexa” to invoke Alexa to start listening.

Note: If the wake word is not enabled, you can only use the voice interaction button.

You can use Alexa for the following and more:

- Entertainment.
- Hands-free calling.
- Traffic and navigation.
- Vehicle controls.
- Smart home device control.
- Weather and news information.

ALEXA BUILT-IN SETTINGS

Enabling the Wake Word

1. Press **Settings** on the touchscreen.
2. Press **Amazon Alexa**.
3. Switch **Listen for Wake Word** on or off.

Note: If the wake word is not enabled, you can only use the voice interaction button.

Contact List

Displays a list of connected phones and contact sharing status for each phone.

To change the contact sharing status:

1. Press **Settings** on the touchscreen.
2. Press **Amazon Alexa**.
3. Press **Contact List**.
4. Enable or disable sharing for each phone.

Note: *You can share contacts from more than one phone at a time.*

Note: *If a contact list is not shared, hands-free calling does not work via Alexa.*

Things to Try

Learn more about what you can do with Alexa by browsing the things to try.

1. Press **Settings** on the touchscreen.
2. Press **Amazon Alexa**.
3. Press **Things to Try**.

Phone

PHONE PRECAUTIONS



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

CONNECTING YOUR PHONE

Go to the settings menu on your device and switch **Bluetooth®** on.



Press the phone option on the feature bar.

1. Press **Add Phone**.

Note: A prompt alerts you to search for your vehicle on your cell phone.

2. Select your vehicle on your cell phone.

Note: A number appears on your cell phone and on the touchscreen.

3. Confirm the number on your cell phone matches the number on the touchscreen.

Note: The touchscreen indicates that you have successfully paired your cell phone.

4. Download the phonebook from your cell phone when you are prompted.

Note: If you pair more than one cell phone, use the phone settings on the center display to specify the primary phone. You can change this setting at any time.

PHONE MENU

This menu becomes available after pairing a phone.

Recent Call List

Display and select an entry from a list of previous calls.

Contacts

Display a smart search form to look up your contacts. Use the List button to alphabetically sort your contacts.

Favorites

Display the list of favorite contacts that are set up on your phone.

Messaging

Displays the list of text messages to read, listen to, or respond to.

Email

Displays the list of emails to read, listen to, or respond to.

Phone List

Display the list of paired or connected devices that you can select.

Note: Up to 12 devices can be stored.

Phone

Do Not Disturb

Reject incoming calls and switch ring tones and alerts off.

Phone Keypad

Directly dial a number.

Voice Control

Press the button and say a command to use the Google or Siri voice assistant available on your connected phone to access supported features.

Note: *Some features under the phone menu may not be available if the feature is not supported through the phone.*

Phone

MAKING AND RECEIVING A PHONE CALL

Making Calls

To call a number in your contacts, select:

Menu Item	Action and Description
Contacts	You can then select the name of the contact you want to call. Any numbers stored for that contact display along with any stored contact photos. You can then select the number that you want to call. The system begins the call.

To call a number from your recent calls, select:

Menu Item	Action and Description
Recent Call List	You can then select an entry that you want to call. The system begins the call.

To call a number from your favorites, select:

Menu Item	Action and Description
Favorites	You can then select an entry that you want to call. The system begins the call.

To call a number that is not stored in your phone, select:

Menu Item	Action and Description
Phone Keypad	Select the digits of the number you wish to call.
Call	The system begins the call.

Pressing the backspace button deletes the last digit you typed.

Receiving Calls

During an incoming call, an audible tone sounds. Caller information appears in the display if it is available.

To accept the call, select:

Menu Item
Accept

Note: You can also accept the call by pressing the phone button on the steering wheel.

To reject the call, select:

Menu Item
Reject

Ignore the call by doing nothing. The system logs it as a missed call.

During a Phone Call

During a phone call, the contacts name and number display on the screen along with the call duration.

The phone status items are also visible:

- Signal Strength.
- Battery.

Phone

You can select any of the following during an active phone call:

Item	
End Call	Immediately end a phone call. You can also press the button on the steering wheel.
Keypad	Press this to access the phone keypad.
Mute	You can switch the microphone off so the caller does not hear you.
Privacy	Transfer the phone call audio to the cell phone or back to the touchscreen.

Phone

SENDING AND RECEIVING A TEXT MESSAGE

Menu Item	Description
Hear It	Hear the text message.
View	View the text message.
Call	Call the sender.
Reply	Reply to the text message with a standard text message.

SWITCHING TEXT MESSAGE NOTIFICATION ON AND OFF

The settings on your device must be enabled to receive text message notifications on the center display. Check your device settings to enable these features.

CONNECTING A BLUETOOTH® DEVICE

1. Make sure **Bluetooth®** is enabled on your device.
2. Press **Settings** on the touchscreen.
3. Press **Connectivity**.
4. Press **Bluetooth**.
5. Press **Add a Bluetooth Device**.

Note: A prompt alerts you to search for your vehicle on your device.

6. Select your vehicle on your device.

Note: A number appears on your device and on the touchscreen.

7. Confirm that the number on your device matches the number on the touchscreen.

Note: The touchscreen indicates that you have successfully paired your device.

The **Bluetooth®** word mark and logos are registered trademarks owned by **Bluetooth SIG, Inc.** and any use of such marks by Ford Motor Company is under license. Other trademarks and trade names are those of their respective owners.

PLAYING MEDIA USING BLUETOOTH®



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Connect your device.



Press the audio button on the feature bar.



Press **Sources**.



Press the **Bluetooth®** option.



Press to play a track. Press again to pause the track.



Press to skip to the next track.



Press and hold to fast forward through the track.



Press once to return to the beginning of a track. Repeatedly press to return to previous tracks.

Press and hold to fast rewind through the track.

APP PRECAUTIONS



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

APP REQUIREMENTS

When you start an app through the system for the first time, you could be asked to grant certain permissions. You can review and change the permissions that you have granted at any time when your vehicle is not moving. We recommend that you check your data plan before using your apps through

the system. Using them could result in additional charges. We also recommend that you check the app provider's terms and conditions and privacy policy before using their app. Make sure that you have an active account for apps that you want to use through the system. Some apps will work with no setup. Others require you to configure some personal settings before you can use them.

ACCESSING APPS



Select the apps option on the feature bar.

ENABLING APPS ON AN IOS DEVICE



Select the apps option on the feature bar.

1. Select Mobile Apps Help.
2. Follow the instructions to pair and connect your device via **Bluetooth®** or with a USB cable.

3. Start the apps on your device that you want to use.
4. Select the app that you want to use on the touchscreen.

Note: Some apps may run through Apple CarPlay if it is enabled.

Note: Closing an app on your device will close it on the touchscreen.

Note: For troubleshooting assistance select *Mobile Apps List* under *Mobile Apps Help*.

ENABLING APPS ON AN ANDROID DEVICE



Select the apps option on the feature bar.

1. Select Mobile Apps Help.
2. Follow the instructions to pair and connect your device via **Bluetooth®** or with a USB cable.
3. Start the apps on your device that you want to use.
4. Select **Find Mobile Apps**.

Apps

5. Select the app that you want to use on the touchscreen.

Note: Some devices may lose the ability to play music over USB when Mobile Apps are enabled.

Note: Some apps may run through Android Auto if it is enabled.

Note: Closing an app on your device will close it on the touchscreen.

Note: For troubleshooting assistance select Mobile Apps List under Mobile Apps Help.

SWITCHING APPLE CARPLAY ON AND OFF

Enabling Apple CarPlay with USB

1. Connect your device to a USB port.
2. Follow the instructions on your device and the touchscreen.

Note: Selecting "Enable Wireless CarPlay" on your device prepares the device for wireless CarPlay when you re-enter the vehicle.

Enabling Apple CarPlay with Wireless

1. Pair your device to **Bluetooth®**.
2. Follow the instructions on your device and the touchscreen.

Disabling Apple CarPlay



Select the settings option on the feature bar.

1. Press Phone List.
2. Select your device from the list.
3. Press Disable.

Re-Enabling Apple CarPlay



Select the settings option on the feature bar.

1. Press Phone List.
2. Select your device from the list.
3. Press Connect to Apple CarPlay.

SWITCHING ANDROID AUTO ON AND OFF

Enabling Android Auto with USB (If

Equipped)

1. Connect your device to a USB port.
2. Follow the instructions on the touchscreen.

Note: Certain features of the system are not available when you are using Android Auto.

Enabling Android Auto with Wireless

1. Pair your device to **Bluetooth®**.
2. Follow the instructions on your device and the touchscreen.

Note: Certain Android Devices do not support Android Auto Wireless. Please check your Android OS version for compatibility.

Disabling Android Auto



Select the settings option on the feature bar.

1. Press Phone List.

2. Select your device from the list.
3. Press Disable.

Re-Enabling Android Auto



Select the settings option on the feature bar.

1. Press Phone List.
2. Select your device from the list.
3. Press Connect to Android Auto.

Personal Profiles

HOW DO PERSONAL PROFILES WORK

This feature allows you to create multiple personal profiles enabling users to personalize vehicle's settings such as seats and mirrors, as well as non-positional settings like radio, navigation, driver assist system settings. Positional settings are saved by holding a memory seat button.

Non-positional settings are saved you change a setting while a profile is active. You can create one profile for each preset memory seat button along with a guest profile.

Recalling and Changing a Profile

You can recall a profile using the touchscreen or the preset button you selected when you created your profile. You can also link a remote control and a mobile device to your profile, which are used to recall it.

ENABLING OR DISABLING PERSONAL PROFILES

1. Switch the vehicle on and leave the vehicle in park (P).
2. Press **Settings** on the touchscreen.
3. Press **Personal Profiles**.
4. Switch **Personal Profiles** on or off.

When enabled:

- Unlocking a door with a remote control or mobile device that is not linked to a driver profile does not change the active profile, but remains in the last known profile. It does not change the positional settings.
- Pressing a memory seat button that is not linked to a driver profile or saved to a preset setting does not change the active profile, but remains in the last known profile. It does not change the positional settings.
- Pressing a memory seat button that is not linked to a driver profile but is saved to a preset setting does not change the active profile, but remains in the last known profile. It recalls the positional settings that you saved to that memory seat button.

Personal Profiles

When disabled:

- Unlocking a door with a remote control or mobile device does not recall any non-positional settings but still recalls positional settings from the driver profile which the remote control or mobile device is linked to.
- Pressing a memory seat button that is not linked to a driver profile or saved to a preset setting does not change the positional or non-positional settings.
- Pressing a memory seat button that is linked to a driver profile or has saved to a preset setting recalls the positional settings that you saved to that memory seat button.

CREATING A PERSONAL PROFILE

Use the touchscreen to create a personal profile.

1. Switch the vehicle on and leave the vehicle in park (P).
2. Select the Personal Profiles button under Settings.

3. Follow the instructions on the display.

LINKING OR UNLINKING A PERSONAL PROFILE TO A REMOTE CONTROL

You can save preset memory positions for up to three remote controls by assigning a remote control to a personal profile using the touchscreen.

Use the touchscreen to link a remote control to a personal profile.

1. Switch the vehicle on and leave the vehicle in park (P).
2. Select the Personal Profiles button under Settings.
3. Touch the arrow for the profile you wish to link to a remote control.
4. Select remote control.
5. Follow the instructions on the display.

Note: *If more than one linked remote control is in range, the memory function moves to the settings of the first key to initiate a memory recall.*

Note: *The guest profile consists of existing settings when there is no driver profile created. After you create a driver profile, the guest profile serves as an additional driver profile.*

Note: *You cannot link a remote control to a guest profile.*

LINKING OR UNLINKING A PERSONAL PROFILE TO A DEVICE

Use the touchscreen to link a mobile device to a personal profile.

1. Switch the vehicle on and leave the vehicle in park (P).
2. Select the Personal Profiles button under Settings.
3. Touch the arrow for the profile you wish to link to a mobile device.
4. Select mobile device.
5. Follow the instructions on the display.

Personal Profiles

Note: *To successfully link a mobile device, the mobile device must be in your vehicle, and must have previously been setup as a remote control for your vehicle.*

Note: *The guest profile consists of existing settings when there is no driver profile created. After you create a driver profile, the guest profile serves as an additional driver profile.*

Note: *You cannot link a personalized name to a guest profile.*

Navigation

CONNECTED NAVIGATION (IF

EQUIPPED)

Your vehicle may be equipped with connected navigation. Depending on your version, you are given a 90 day or 3 year trial. After the trial period, you need to sign up to continue the experience. For additional information, visit lincoln.com/connectedservices.

Note: If you do not sign up or renew your subscription, you can still use navigation through a connected device.

ACCESSING NAVIGATION



Press the button to access Navigation.

Note: As the driver, be aware of all local traffic regulations and road attributes, and operate your vehicle in a safe and legal manner.

NAVIGATION MAP UPDATES

To update your map data over Wi-Fi, your vehicle must be connected to a Wi-Fi access point. For USB updates and other details, contact dealers at 1-866-462-8837 in the United States and Canada, or 800-557-5539 in Mexico.

Note: If you find map data errors, you may report them by going to www.here.com/mapcreator.

ADJUSTING THE MAP

ZOOMING THE MAP IN AND OUT

You can use pinch gestures to zoom in and out. Place two fingers on the screen and move them apart to zoom in. Place two fingers on the screen and bring them together to zoom out.

CHANGING THE FORMAT OF THE MAP



Press the Menu button.

1. Press the Map Orientation tile.
2. Select a map orientation.

LIVE TRAFFIC

WHAT IS LIVE TRAFFIC

You can observe real-time road congestion when live traffic is on.

SWITCHING LIVE TRAFFIC ON AND OFF



Press the Menu button.

1. Press the Traffic on Map tile.
2. Press Traffic on or Traffic Off.

Navigation

SETTING A DESTINATION

SETTING A DESTINATION USING THE TEXT ENTRY SCREEN

1. Press the search bar at the top of the screen.
2. Enter your destination using the keyboard.
3. Press Search.
4. Select a destination from the list.
5. Press Start to begin navigation.

SETTING A DESTINATION USING THE MAP SCREEN

Press and hold on the map to place a pin at that location. Information about the location of the pin appears on the screen.



Press the button to begin navigation to the pin.

SETTING A DESTINATION USING A PREDICTIVE DESTINATION

Press the predicted destination card on the screen to navigate to it. These appear when the navigation system has learned your driving habits.

SETTING A DESTINATION USING A RECENT DESTINATION

1. Press the Recents tile.
2. Select a destination from the list.

SETTING A DESTINATION USING A SAVED DESTINATION

1. Press Saved Places.
2. Select a saved destination.

Note: Press the star icon next when viewing location details to save the location.

SETTING A DESTINATION USING A POINT OF INTEREST

Press a point of interest icon on the map. Information about the location of the point of interest appears on the screen.



Press the button to begin navigation to the point of interest.

WAYPOINTS

ADDING A WAYPOINT



Press the Add Waypoint button when in an active navigation session.

1. Select a category or enter your waypoint on the keyboard and press Search.
2. Select a waypoint from the list.
3. Press Add to Trip.

EDITING WAYPOINTS

1. Press the waypoint you would like to edit.

2. Select an option to reorder or delete the waypoint.

ROUTE GUIDANCE

ADJUSTING THE GUIDANCE PROMPT VOLUME

Turn the volume control when a guidance prompt plays to adjust the volume.

REPEATING AN INSTRUCTION

Press the turn indicator to hear the last voice instruction.

CANCELING ROUTE GUIDANCE



Press the button to cancel route guidance to the selected location.

Vehicle Software Updates

This introduces new features and provides updates to the vehicle's software systems. Make sure to switch Automatic Updates on, set a recurring update schedule and connect your vehicle to Wi-Fi. Updates could take longer when not connected to Wi-Fi or could not download at all. See **Connecting the Vehicle to a Wi-Fi Network** (page 514). See **Connecting the Vehicle to a Wi-Fi Network** (page 514).

Your vehicle may be able to receive drivable software updates, non-drivable software updates or both. Drivable software updates happen during normal vehicle usage and require limited input from you. You are notified on your touchscreen and connected device prior to a non-drivable update.

Most updates complete in less than 30 minutes, although some updates could take up to a few hours. Check your touchscreen or connected device for the most accurate estimated update time.

You are notified of the status of the vehicle software update in the touchscreen and on your connected device. See **Software Update Indicators** (page 555).

Vehicle Software Update Requirements

Non-drivable software updates do not install if any of the following occur:

- Your vehicle is running.
- Your vehicle is switched on.
- Your vehicle is not parked.
- The 12 V battery charge is too low.
- The hazard indicators are switched on.
- The alarm is sounding.
- The doors are open.
- The parking lamps are switched on.
- You are pressing the brake pedal.
- An emergency call is in process.
- Your vehicle is in limp home mode.

Vehicle Software Update Limitations

Once you begin a non-drivable software update, you cannot:

- Cancel the update.
- Lock, unlock or enter your vehicle unless you have a key blade.
 - You can open the doors using the mechanical latch if child locks are not on.
- Drive your vehicle.
- Start your vehicle.
- Use the remote control to lock, unlock or start your vehicle.
- Use the alarm, central locks or door tones.
- Use the electronic door locks.
- Charge your vehicle.
 - Charging resumes once the update completes.

SOFTWARE UPDATE SETTINGS

To access the Software Updates menu:

Vehicle Software Updates

1. Press **Settings** on the touchscreen.
2. Press **Software Updates**.

You can do the following in the Software Updates menu:

- Switch Automatic Updates on and off.
- Schedule and install software updates.
- View software update details.



Press the button next to a menu option for more information.

Switching Automatic Updates On and Off

Your vehicle may come with Automatic Updates switched on. To make sure your vehicle always has the latest software, which could include security or other enhancements, we do not recommend switching Automatic Updates off.

Note: Software updates require approval to download or install with Automatic Updates switched off.

Scheduling and Installing Software Updates

Scheduling Software Updates

From the Software Updates menu:

1. Press **Schedule Updates**.
2. Select the days and time for updates.
3. Press **Save**.

The more days that updates are scheduled, the more frequently your vehicle installs new updates. We recommend selecting a time you normally do not need your vehicle, such as overnight.

Some updates require your vehicle to be switched off.

Note: *The schedule you set is recurring. If Automatic Updates is on, every time a non-drivable update is available, it installs on this schedule unless you change it. You are notified on your touchscreen and connected device prior to a non-drivable update, with an option to reschedule it.*

Installing Software Updates

Using the Status Bar

1. Press a Software Update indicator on your touchscreen when it appears.
2. Follow the instructions on the touchscreen.

Using the Touchscreen

From the Software Updates menu:

1. Press **Update Details**.
2. Press **Update Now**.

Viewing Software Update Details

From the Software Updates menu:

1. Press **Update Details**.

SOFTWARE UPDATE INDICATORS

You can press the indicators in the status bar when they appear for more information.

Vehicle Software Updates



Vehicle software update reminder, schedule required, confirmation of default schedule required, or consent required.



Vehicle software update canceled, update not successful, or precondition not met.



Vehicle software update successful.

Vehicle System Reset

PERFORMING A SYSTEM RESET

Performing a system reset allows you to remove all personal information and restore settings to their factory defaults.

1. Press **Settings** on the touchscreen.
2. Press **General**.
3. Press **Reset**.
4. Press **Master Reset**.
5. Follow the prompts on the screen to complete the reset.

Accessories

For a complete listing of the accessories that are available for your vehicle, please contact your authorized dealer or visit the online store web site:

Web Address (United States)
www.Accessories.Ford.com

Web Address (Canada)
www.Accessories.Ford.ca

We will repair or replace any properly authorized dealer-installed Ford Original Accessory found to be defective in factory-supplied materials or workmanship during the warranty period, as well as any component damaged by the defective accessories.

We will warrant your Ford Original Accessory through the warranty that provides the greatest benefit:

- 24 months, unlimited mileage.
- The remainder of your new vehicle limited warranty.

Contact an authorized dealer for details and a copy of the warranty.

Ford Licensed Accessories are the accessory manufacturer's designs. The manufacturer develops and therefore warrants Ford Licensed Accessories, and does not design or test these accessories to Ford Motor Company engineering requirements. Contact an authorized Ford dealer for the manufacturer's limited warranty details, and request a copy of the Ford Licensed Accessories product limited warranty from the accessory manufacturer.

For maximum vehicle performance, keep the following information in mind when adding accessories or equipment to your vehicle:

- When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front or rear axle (GVWR or GAWR as indicated on the Safety Compliance Certification label). Ask an authorized dealer for specific weight information.
- The Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulate the use of mobile communications systems that are equipped with radio transmitters, for example two-way radios, telephones and theft alarms. Any such equipment installed in your vehicle should comply with Federal Communications Commission (FCC) and Canadian Radio Telecommunications Commission (CRTC) regulations and should be installed only by an authorized dealer.

Accessories

- An authorized dealer needs to install mobile communications systems. Improper installation may harm the operation of your vehicle, particularly if the manufacturer did not design the mobile communication system specifically for automotive use.
- If you or an authorized Ford dealer add any non-Ford electrical or electronic accessories or components to your vehicle, you may adversely affect battery performance and durability. In addition, you may also adversely affect the performance of other electrical systems in the vehicle.

Lincoln Protect

WHAT IS LINCOLN PROTECT

Protect yourself from the rising cost of vehicle repairs with the Lincoln Protect extended service plan.

Lincoln Protect Extended Service Plans (United States Only)

Lincoln Protect means peace of mind. It is the extended service plan backed by Lincoln, and provides more protection beyond the New Vehicle Limited Warranty coverage. When you visit your Lincoln Dealer, insist on genuine Lincoln Protect extended service plans.

Lincoln Protect Extended Service Plan Can Quickly Pay for Itself

One trip to the Service Center could easily exceed the price of your Lincoln Protect extended service plan. With Lincoln Protect, you minimize your risk for unexpected repair bills and rising repair costs.

Up to 1000+ Covered Vehicle Components

There are four mechanical Lincoln Protect extended service plans with different levels of coverage. Ask your authorized dealer for details.

1. PremiumCARE - Our most comprehensive coverage. With over 1,000 covered components, this plan is so complete it is probably easier to list what is not covered.
2. ExtraCARE - Covers 113 components, and includes many high-tech items.
3. BaseCARE - Covers 84 components.
4. PowertrainCARE - Covers 29 critical components.

Lincoln Protect extended service plans are honored by all authorized Lincoln dealers in the United States, Canada and Mexico.

That means you get:

- Reliable, quality service at any Lincoln or Ford dealership.
- Repairs performed by factory trained technicians, using genuine parts.

Rental Car Reimbursement

First Day Rental Benefit

If you bring your car into your dealer for service, we will give you a rental vehicle to use for the day.

Extended Rental Benefits

If your vehicle is kept overnight for covered repairs, you are eligible for rental car coverage, including bumper to bumper warranty repairs, and field service actions.

Roadside Assistance

Exclusive 24/7 roadside assistance, including:

- Towing, flat-tire change and battery jump starts.
- Out of fuel and lock-out assistance.
- Travel expense reimbursement for lodging, meals and rental car.
- Assistance for taxi, shuttle, rental car coverage and other transportation.

Lincoln Protect

Transferable Coverage

If you sell your vehicle before your Lincoln Protect extended service plan coverage expires, you can transfer any remaining coverage to the new owner. This should give you and your potential buyer a little more peace of mind.

Less Cost to Properly Maintain Your Vehicle

The Lincoln Protect extended service plan also offers a Premium Maintenance Plan that covers all scheduled maintenance, and selected wear items. The coverage is prepaid, so you never have to worry about the cost of your vehicle's maintenance.

Covered maintenance includes:

- Windshield wiper blades.
- Spark plugs.
- The clutch disc - if equipped.
- Brake pads and linings.
- Shock absorbers and struts.
- Engine cooling hoses, clamps and o-rings.

- Engine belts.
- Diesel exhaust fluid replenishment - if equipped.

Interest Free Finance Options

Just a 5% down payment will provide you with an affordable, no interest, no fee payment program allowing you all the security and benefits Lincoln Protect extended service plan has to offer while paying over time. You are pre-approved with no credit check or hassles. To learn more, call our Lincoln Protect extended service plan specialists at 800-367-3377.

Complete the information below and mail to:

Lincoln Protect Extended Service Plan
P.O. Box 321067
Detroit, MI 48232

Lincoln Protect (Canada Only)

You can get more protection for your vehicle by purchasing a Lincoln Protect extended service plan. The Lincoln Protect extended service plan is the only service contract backed by Lincoln, Limited. Depending on the plan you purchase, the Lincoln Protect extended service plan provides benefits such as:

- Rental reimbursement.
- Coverage for certain maintenance and wear items.
- Protection against repair costs after your New Vehicle Limited Warranty Coverage expires.
- Roadside Assistance benefits.

Lincoln Protect

There are several Lincoln Protect extended service plans available in various time, distance and deductible combinations. Each plan is tailored to fit your own driving needs, including reimbursement for towing and rental. When you purchase a Lincoln Protect extended service plan, you receive added peace-of-mind protection throughout Canada, the United States and Mexico, provided by a network of participating authorized Lincoln dealers.

Note: *Repairs performed outside of Canada, the United States and Mexico are not eligible for Lincoln Protect extended service plan coverage.*

This information is subject to change. For more information, visit your local Lincoln of Canada dealer or www.LincolnCanada.com to find the Lincoln Protect extended service plan that is right for you.

Scheduled Maintenance

GENERAL MAINTENANCE INFORMATION

Why Maintain Your Vehicle?

Carefully following the maintenance schedule helps protect against major repair expenses resulting from neglect or inadequate maintenance and may help to increase the value of your vehicle when you sell or trade it. Keep all receipts for completed maintenance with your vehicle.

We have established regular maintenance intervals for your vehicle based upon rigorous testing. It is important that you have your vehicle serviced at the proper times. These intervals serve two purposes; one is to maintain the reliability of your vehicle and the second is to keep your cost of owning your vehicle down.

It is your responsibility to have all scheduled maintenance performed and to make sure that the materials used meet the specifications identified in this owner's manual. See **Capacities and Specifications** (page 495).

Failure to perform scheduled maintenance invalidates warranty coverage on parts affected by the lack of maintenance.

Why Maintain Your Vehicle at Your Dealership?

Factory-Trained Technicians

Service technicians participate in extensive factory-sponsored certification training to help them become experts on the operation of your vehicle. Ask your dealership about the training and certification their technicians have received.

Genuine Ford and Motorcraft® Replacement Parts

Dealerships stock Ford, Motorcraft and Ford-authorized branded re-manufactured replacement parts. These parts meet or exceed our specifications. Parts installed at your dealership carry a nationwide 24-month or unlimited mile (kilometer) parts and labor limited warranty.

If you do not use our authorized parts, they may not meet our specifications and depending on the part, it could affect emissions compliance.

Convenience

Many dealerships have extended evening and Saturday hours to make your service visit more convenient and they offer one stop shopping. They can perform any services that are required on your vehicle, from general maintenance to collision repairs.

Note: *Not all dealers have extended hours or body shops. Please contact your dealer for details.*

Protecting Your Investment

Maintenance is an investment that pays dividends in the form of improved reliability, durability and resale value. To maintain the proper performance of your vehicle and its emission control systems, make sure you have scheduled maintenance performed at the designated intervals.

Scheduled Maintenance

Your vehicle has an Intelligent Oil-Life Monitor system, a message appears in the information display at the proper oil change interval. This interval may be up to one year or 10,000 mi (16,000 km), hybrid vehicles may exceed 10,000 mi (16,000 km).

Your vehicle can be driven in such a way that dilutes and increases the level of oil by short trips that do not allow the engine to get to operating temperature, extended idling, and low speed driving for long periods of time.

When the oil change message appears in the information display, it is time for an oil change. Make sure you perform the oil change within two weeks or 500 mi (800 km) of the message appearing. Make sure you reset the Intelligent Oil-Life Monitor after each oil change. See **Intelligent Oil Life Monitor** (page 433).

If your information display resets prematurely or becomes inoperative, you should perform the oil change interval at six months or 5,000 mi (8,000 km) from your last oil change. Never exceed one year or 10,000 mi (16,000 km) between oil change intervals,

Your vehicle is very sophisticated and built with multiple, complex, performance systems. Every manufacturer develops these systems using different specifications and performance features. That is why it is important to rely upon your dealership to properly diagnose and repair your vehicle.

We have recommended maintenance intervals for various parts and component systems based upon engineering testing. We rely upon this testing to determine the most appropriate mileage for replacement of oils and fluids to protect your vehicle at the lowest overall cost to you and recommends against maintenance schedules that deviate from the scheduled maintenance information.

We strongly recommend the use of only genuine Ford, Motorcraft or Ford-authorized re-manufactured replacement parts engineered for your vehicle.

Additives and Chemicals

This owner's manual and our Workshop Manual list the recommended additives and chemicals for your vehicle. We do not recommend using chemicals or additives not approved by us as part of your vehicle's normal maintenance. Please consult your warranty information.

Oils, Fluids and Flushing

In many cases, fluid discoloration is a normal operating characteristic and, by itself, does not necessarily indicate a concern or that the fluid needs to be changed. However, a qualified expert, such as the factory-trained technicians at your dealership, should inspect discolored fluids that also show signs of overheating or foreign material contamination immediately.

Scheduled Maintenance

Make sure to change your vehicle’s oils and fluids at the specified intervals or in conjunction with a repair. Flushing is a viable way to change fluid for many vehicle sub-systems during scheduled maintenance.

It is critical that systems are flushed only with new fluid that is the same as that required to fill and operate the system or using a Ford-approved flushing chemical.

Owner Checks and Services

Make sure you perform the following basic maintenance checks and inspections every month or at six-month intervals.

Check Every Month
Engine oil level.
Function of all interior and exterior lights.
Tires (including spare) for wear and proper pressure.
Windshield washer fluid level.
Fuel and water separator. Drain if necessary (or if indicated by the information display).
Holes and slots in the tail pipe to make sure they are functional and clear of debris.

Check Every Six Months
Battery connections. Clean if necessary.
Body and door drain holes for obstructions. Clean if necessary.
Cooling system fluid level and coolant strength.
Door weatherstrips for wear. Lubricate if necessary.

Scheduled Maintenance

Check Every Six Months
Hinges, latches and outside locks for proper operation. Lubricate if necessary.
Parking brake for proper operation.
Seatbelts and seat latches for wear and function.
Safety warning lamps (brake, ABS, airbag and seatbelt) for operation.
Washer spray and wiper operation. Clean or replace blades as necessary.

Multi-Point Inspection

In order to keep your vehicle running right, it is important to have the systems on your vehicle checked regularly. This can help identify potential issues and prevent major problems. We recommend having the following multi-point inspection performed at every scheduled maintenance interval to help make sure your vehicle keeps running great.

Scheduled Maintenance

Multi-Point Inspection	
Accessory drive belt(s)	Hazard warning system operation
Battery performance	Horn operation
Engine air filter	Radiator, cooler, heater and air conditioning hoses
Exhaust system	Suspension components for leaks or damage
Exterior lamps operation	Steering and linkage
Fluid levels ¹ ; fill if necessary	Tires (including spare) for wear and proper pressure ²
For oil and fluid leaks	Windshield for cracks, chips or pits
Half-shaft dust boots	Washer spray and wiper operation

¹ Brake, coolant recovery reservoir, automatic transmission and window washer.

² If your vehicle comes with a temporary mobility kit, check the tire sealant expiration Use By date on the canister. Replace as needed.

Be sure to ask your dealership service advisor or technician about the multi-point vehicle inspection. It is a comprehensive way to perform a thorough inspection of your vehicle. Your checklist gives you immediate feedback on the overall condition of your vehicle.

Scheduled Maintenance

NORMAL SCHEDULED MAINTENANCE

Intelligent Oil-Life Monitor™

Your vehicle has an Intelligent Oil-Life Monitor that determines when you should change the engine oil based on how you use your vehicle. By using several important

factors in its calculations, the monitor helps reduce the cost of owning your vehicle and reduces environmental waste at the same time.

This means you do not have to remember to change the oil on a mileage-based schedule. Your vehicle lets you know when an oil change is due by displaying a message in the instrument cluster display.

The following table provides examples of vehicle use and its impact on oil change intervals. It is a guideline only. Actual oil change intervals depend on several factors and generally decrease with severity of use.

When to Expect the OIL CHANGE REQUIRED Message	
Interval ¹	Vehicle Use and Example
7,500–10,000 mi (12,000–16,000 km)	Normal
	Normal commuting with highway driving No, or moderate, load or towing Flat to moderately hilly roads No extended idling
5,000–7,500 mi (8,000–12,000 km)	Severe
	Moderate to heavy load or towing Mountainous or off-road conditions Extended idling Extended hot or cold operation

Scheduled Maintenance

When to Expect the OIL CHANGE REQUIRED Message	
Interval ¹	Vehicle Use and Example
3,000–5,000 mi (5,000–8,000 km)	Extreme
	Maximum load or towing Extreme hot or cold operation Extended engine idling

¹Hybrid vehicles may achieve longer distances between oil changes, but do not exceed the one year max oil change interval. Remaining oil life can be accessed through the instrument cluster display.

Maintenance Intervals

At Every Oil Change Interval as Indicated by the Instrument Cluster Display ¹
Change the engine oil and filter. ²
Rotate the tires.
Perform a multi-point inspection, recommended.
Inspect the automatic transmission fluid level. Consult your dealer for requirements.
Inspect the brake pads, rotors, hoses and the parking brake.
Inspect the engine coolant level and strength and the hoses.

Scheduled Maintenance

At Every Oil Change Interval as Indicated by the Instrument Cluster Display ¹
Inspect the exhaust system and heat shields.
Inspect the rear axle and U-joints for all-wheel drive vehicles.
Inspect the half-shaft boots.
Inspect the steering linkage, ball joints, suspension, tie-rod ends, driveshaft and the U-joints.
Inspect the tires, tire wear and measure the tread depth.
Inspect the wheels and related components for abnormal noise, wear, looseness or drag.

¹Do not exceed one year or 10,000 mi (16,000 km) between service intervals. Hybrid vehicles may achieve longer distances between oil changes, but do not exceed the one year max oil change interval.

²Reset the Intelligent Oil-Life Monitor after engine oil and filter changes. See **Intelligent Oil Life Monitor** (page 433).

Brake Fluid Maintenance ¹	
Every Three Years	Change the brake fluid. ²

¹ Perform this maintenance item every three years. Do not exceed the designated time for the interval.

² Brake fluid servicing requires special equipment available at your authorized dealer.

Scheduled Maintenance

Other Maintenance Items ¹	
Every 20,000 mi (32,000 km)	Replace the cabin air filter.
Every 30,000 mi (48,000 km)	Replace the engine air filter.
Every 100,000 mi (160,000 km)	Replace the spark plugs.
	Inspect the accessory drive belt or belts. ²
Every 150,000 mi (240,000 km)	Change the automatic transmission fluid.
	Replace the accessory drive belt or belts. ³
At 200,000 mi (320,000 km)	Change the engine coolant. ⁴

¹ Perform these maintenance items within 3,000 mi (4,800 km) of the last engine oil and filter change. Do not exceed the designated distance for the interval.

² After initial inspection, inspect every other oil change until replaced.

³ If not replaced within the last 100,000 mi (160,000 km).

⁴ Initial replacement at 10 years or 200,000 mi (320,000 km), then every 5 years or 100,000 mi (160,000 km).

Scheduled Maintenance

SPECIAL OPERATING CONDITIONS SCHEDULED MAINTENANCE

If you operate your vehicle **primarily** in any of the following conditions, you need to perform extra maintenance as indicated. If you operate your vehicle **occasionally** under any of these conditions, it is not necessary to perform the extra maintenance. For specific recommendations, see your dealership service advisor or technician.

Perform the services shown in the following tables when specified or within 3,000 mi (4,800 km) of the message appearing in the instrument cluster display prompting you to change your oil.

- **Example 1:** The message comes on at 28,750 mi (46,270 km). Perform the 30,000 mi (48,000 km) automatic transmission fluid replacement.
- **Example 2:** The message has **not** come on, but the odometer reads 30,000 mi (48,000 km) (for example, the Intelligent Oil-Life Monitor was reset at 25,000 mi (40,000 km)). Perform the engine air filter replacement.

Scheduled Maintenance

Towing a Trailer or Using a Car-top Carrier	
As required	Change engine oil and filter as indicated by the instrument cluster display and perform services listed in the Normal Scheduled Maintenance chart.
Inspect frequently, service as required	Inspect rear axle and U-joints (AWD).
Every 30,000 mi (48,000 km)	Change automatic transmission fluid.
Every 60,000 mi (96,000 km)	Replace spark plugs.

Scheduled Maintenance

Extensive Idling or Low-speed Driving for Long Distances, as in Heavy Commercial Use (Such as Delivery, Taxi, Patrol Car or Livery) Short Trips that do not allow the engine to get to operating temperature causing fuel dilution and an increase of the engine oil level	
As required	Change engine oil and filter as indicated by the instrument cluster display and perform services listed in the Normal Scheduled Maintenance chart.
Inspect frequently, service as required	Replace cabin air filter.
	Replace engine air filter.
Every 30,000 mi (48,000 km)	Change automatic transmission fluid.
Every 60,000 mi (96,000 km)	Replace spark plugs.

Operating in Dusty or Sandy Conditions Such as Unpaved or Dusty Roads	
Inspect frequently, service as required	Replace cabin air filter.
	Replace engine air filter.
Every 5,000 mi (8,000 km)	Inspect the wheels and related components for abnormal noise, wear, looseness or drag.
	Rotate tires, inspect tires for wear and measure tread depth.
Every 5,000 mi (8,000 km) or six months	Change engine oil and filter. ²

Scheduled Maintenance

Operating in Dusty or Sandy Conditions Such as Unpaved or Dusty Roads	
	Perform multi-point inspection.
Every 30,000 mi (48,000 km)	Change automatic transmission fluid.

² Reset your Intelligent Oil-Life Monitor after engine oil and filter changes. See **Intelligent Oil Life Monitor** (page 433).

Exceptions

There are several exceptions to the Normal Schedule:

Axle and PTU Maintenance

The Power Transfer Unit (PTU) and rear axle (AWD only) in your vehicle does not require any normal scheduled maintenance unless the vehicle has experienced extended periods of extreme/severe duty cycle driving or the PTU and/or the rear axle has been submerged in water. Checking the PTU and rear axle fluid is not necessary unless the unit shows signs of leakage. Contact an authorized dealer for service.

California Fuel Filter Replacement

If you register your vehicle in California, the California Air Resources Board has determined that the failure to perform this maintenance item does not nullify the emission warranty or limit recall liability before the completion of your vehicle's useful life. We however, urge you to have all recommended maintenance services performed at the specified intervals and to record all vehicle service.

Engine Air Filter and Cabin Air Filter Replacement

The life of the engine air filter and cabin air filter is dependent on exposure to dusty and dirty conditions. Vehicles operated in these conditions require frequent inspection and replacement of the engine air filter and cabin air filter.

Customer Information

ROLLOVER WARNING



WARNING: Utility vehicles have a significantly higher rollover rate than other types of vehicles.



WARNING: Vehicles with a higher center of gravity (utility and four-wheel drive vehicles) handle differently than vehicles with a lower center of gravity (passenger cars). Avoid sharp turns, excessive speed and abrupt steering in these vehicles. Failure to drive cautiously increases the risk of losing control of your vehicle, vehicle rollover, personal injury and death.



WARNING: In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seatbelt.



WARNING: Do not become overconfident in the ability of four-wheel drive vehicles. Although a four-wheel drive vehicle may accelerate better than a two-wheel drive vehicle in low traction situations, it won't stop any faster than two-wheel drive vehicles. Always drive at a safe speed.

Utility vehicles and trucks handle differently than passenger cars in the various driving conditions that are encountered on streets, highways and off-road. Utility vehicles and trucks are not designed for cornering at speeds as high as passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions.

THE BETTER BUSINESS BUREAU AUTO LINE PROGRAM

Your satisfaction is important to Ford Motor Company and to your dealer. If a warranty concern has not been resolved using the three-step procedure outlined earlier in this chapter in the Getting the Services you need section, you may be eligible to participate in the BBB AUTO LINE program.

The BBB AUTO LINE program consists of two parts – mediation and arbitration. During mediation, a representative of the BBB will contact both you and Ford Motor Company to explore options for settlement of the claim. If an agreement is not reached during mediation or you do not want to participate in mediation, and if your claim is eligible, you may participate in the arbitration process. An arbitration hearing will be scheduled so that you can present your case in an informal setting before an impartial person. The arbitrator considers the testimony provided and makes a decision after the hearing.

Customer Information

Disputes submitted to the BBB AUTO LINE program are usually decided within 40 days after you file your claim with the BBB. You are not bound by the decision, and may reject the decision and proceed to court where all findings of the BBB Auto Line dispute, and decision, are admissible in the court action. Should you choose to accept the BBB AUTO LINE decision, Ford is then bound by the decision, and must comply with the decision within 30 days of receipt of your acceptance letter.

BBB AUTO LINE Application: Using the information that follows, call or write to request a program application. You will be asked for your name and address, general information about your new vehicle, information about your warranty concerns, and any steps you have already taken to try to resolve them. A Customer Claim Form will be mailed that needs to be completed, signed and returned to the BBB along with proof of ownership. Upon receipt, the BBB reviews the claim for eligibility under the Program Summary Guidelines.

You can get more information by calling BBB AUTO LINE at 1-800-955-5100, or writing to:

**BBB AUTO LINE a Division of BBB National Programs, Inc.
1676 International Drive, Suite 550
McLean, VA 22102**

BBB AUTO LINE applications can also be requested by calling the Ford Motor Company Customer Relationship Center at 1-800-392-3673.

For additional information, refer to the Better Business Bureau website.

Note: *Ford Motor Company reserves the right to change eligibility limitations, modify procedures, or to discontinue this process at any time without notice and without obligation.*

THE MEDIATION AND ARBITRATION PROGRAM

For vehicles delivered to authorized Canadian dealers. In those cases where you continue to feel that the efforts by Ford of Canada and the authorized dealer to resolve a factory-related vehicle service concern have been unsatisfactory, Ford of Canada participates in an impartial third party mediation/arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The CAMVAP program is a straightforward and relatively speedy alternative to resolve a disagreement when all other efforts to produce a settlement have failed. This procedure is without cost to you and is designed to eliminate the need for lengthy and expensive legal proceedings.

Customer Information

In the CAMVAP program, impartial third-party arbitrators conduct hearings at mutually convenient times and places in an informal environment. These impartial arbitrators review the positions of the parties, make decisions and, when appropriate, render awards to resolve disputes. CAMVAP decisions are fast, fair, and final as the arbitrator's award is binding on both you and Ford of Canada.

CAMVAP services are available in all Canadian territories and provinces. For more information, without charge or obligation, call your CAMVAP Provincial Administrator directly at 1-800-207-0685 or visit www.camvap.ca.

ORDERING A CANADIAN FRENCH OWNER'S MANUAL

You can obtain a French owner's manual from an authorized dealer or by contacting Helm, LLC at:

HELM, LLC
47911 Halyard Drive, Suite 200
Plymouth, Michigan 48170
Attention: Customer Service
Call toll free: 1-800-782-4356
Monday-Friday 8:00 a.m. - 6:00 p.m. EST
For additional information, visit
www.helminc.com.

REPORTING SAFETY DEFECTS IN THE UNITED STATES

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Ford Motor Company.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ford Motor Company.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to www.safercar.gov; or write to:

Administrator

1200 New Jersey Avenue, Southeast
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from www.safercar.gov.

Customer Information

REPORTING SAFETY DEFECTS IN CANADA

If you believe that your vehicle has a defect

which could cause a crash or could cause injury or death, you should immediately inform Transport Canada and Ford of Canada.

Transport Canada Contact Information	
Website (English)	http://tc.canada.ca/recalls
Website (French)	http://tc.canada.ca/rappels
Phone	1-800-333-0510

Lincoln of Canada Contact Information	
Website	www.LincolnCanada.com
Phone	1-800-387-9333

Customer Information

THIRD PARTY SOFTWARE COPYRIGHT ACKNOWLEDGMENT

Your vehicle could have components that use open source software. For additional information, visit <http://corporate.ford.com/ford-open-source.html>.

RADIO FREQUENCY CERTIFICATION LABELS

BLIND SPOT INFORMATION SYSTEM SENSORS

Argentina



Brazil



Djibouti

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéro d'agrément : 195/MCPT/DDTIC
Date d'agrément : 06/09/2021

Customer Information

Europe Union EU



Jamaica

This product has been Type Approved by Jamaica: SMA – F5TR.

Mexico



Ghana

NCA APPROVED: SRO-1M-7E4-X0E

Mauritania

AGREE PAR L'ANEMAURITANIE
Numéro d'agrément : 0985/ARE/2021
Date d'agrément : 24/08/2021

Customer Information

IFETEL: RCPAPF520-0480

Morocco

AGREE PAR L'ANRT MAROC
Numéro d'agrément : MR00030033ANRT2021
Date d'agrément : 16/09/2021

Paraguay



2020-10-I-0753

Singapore

Complies with IMDA Standards

DA 00461

South Africa



Customer Information

South Korea



2. *This radiocommunication equipment has the electromagnetic field strength in compliance with the Safety Standard for the Use of Radiocommunication Equipment on Human Health announced by the National Telecommunications Commission.*

United Kingdom



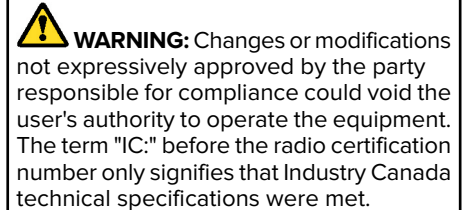
Taiwan



United Arab Emirates (U.A.E.)

TRA
REGISTERED NO: ER80144/20
DEALER NO: DA83047/19

United States and Canada



Thailand

1. *This telecommunication equipment conforms to NTC technical requirement.*

FCC ID: L2CF5TR

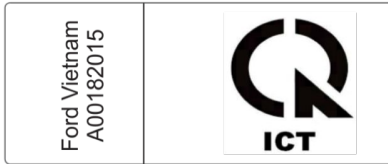
IC: 3432A-F5TR

Customer Information

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Vietnam



REMOTE FUNCTION ACTUATOR

China

CMIIT ID: 2018DJ4563

United States and Canada



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: HYQS2NA0

IC: 1551A-S2NA0

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

BODY CONTROL MODULE

South Korea




Customer Information

R-R-175-P005

United Arab Emirates (U.A.E.)

TRA
REGISTERED NO: ER81343/20
DEALER NO: DA88113/20

United States and Canada

 **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: LXPP004

IC: 2298A-P004

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

CRUISE CONTROL MODULE

Argentina



Brazil



Customer Information

Djibouti

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéro d'agrément : 594/dpt/2017
Date d'agrément : 09/04/2017

Ghana

NCA PRODUCT IDENTIFIER: OR2-9H-7E1-x4D

Indonesia

SERTIFIKAT NOMOR : 53104/SDPPI/2017
PLG ID: 4927



Jamaica

This product has been Type Approved
by Jamaica: SMA - L2C0065TR.

Malaysia



RALM/61A/0318/S(18-0852)

Customer Information

Mauritania

AGREE PAR L'ANE MAURITANIE
Numéro d'agrément: 0409/ARE/2017
Date d'agrément: 12/04/2017

Morocco

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR 13639 ARNT 2017
Date d'agrément: 28/03/2017

Paraguay



Moldova



Pakistan



Serbia



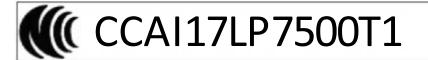
Customer Information

Singapore

South Korea

Taiwan, China

Complies with IMDA Standards
DA105753



South Africa

R-CMM-DLH-L2C0065TR

Syria

Ukraine



SyTRA
REGISTERED No:
FR00085-17



Customer Information

United Arab Emirates



United States and Canada

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: L2C0065TR

IC: 3432A-0065TR

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Zambia



GARAGE DOOR OPENER

United States and Canada

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: NZLSAHL5E

IC: 4112A-SAHL5E

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Customer Information

KEYS AND REMOTE CONTROLS

Argentina

CNC: H-16366

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

CNC ID: H-22290

Brazil

 **ANATEL**
Agência Nacional de Telecomunicações
02445-16-01821

Djibouti

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéro d'agrément : 287/MCPT/SC/16
Date d'agrément : 02/07/2016

Ghana

NCA APPROVED: 2R9-8M-7E0-x94

Jamaica

This product has been Type Approved by Jamaica: SMA – M3N-A2C931426

This product has been Type Approved
by Jamaica: SMA – A2C97102000

Jordan

Moldova



Morocco

NR: 2016-9-I-000222

Customer Information

Serbia



VO11 16

South Africa



TA-2016/2013

MSIP-CRM-TAL-A2C97102000

Ukraine



UA.TR.028

Singapore

Complies with IMDA Standards

DA 00461

South Korea



Customer Information

United Arab Emirates (U.A.E.)

TRA
REGISTERED No: ER47690/16
DEALER No: DA37380/15


This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Zambia



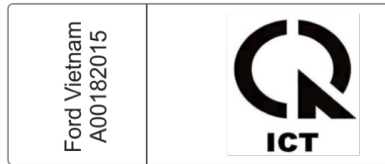
United States and Canada

 **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: M3N-A2C931426

IC: 7812A-A2C931426

Vietnam



RADIO TRANSCEIVER MODULE

Argentina



Customer Information

Brazil



China

CMIIT ID: 2016DJ0249

Djibouti

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéro d'agrément : 033/DDTIC/2020
Date d'agrément : 07/06/2020

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéros d'agrément : 034/DDTIC/2020
Date d'agrément : 07/06/2020

Ghana

NCA PRODUCT IDENTIFIER: SRO-1M-7E4-114

NCA PRODUCT IDENTIFIERS: SRO-1M-7E4-108

Indonesia

SERTIFIKAT NOMOR : 44813/SDPPI/2016
PLG ID: 4940

Jamaica

This product has been Type Approved by
Jamaica: SMA – FO3-AM433RX

This product has been Type Approved by
Jamaica: SMA - FO4-AM902TRB.

Customer Information

Mauritania

AGREE PAR L'ANE MAURITANIE
Numéro d'agrément : 0803/ARE/2020
Date d'agrément : 03/06/2020

Moldova



Pakistan



Morocco

AGREE PAR L'ANE MAURITANIE
Numéro d'agrément : 0802/ARE/2020
Date d'agrément : 03/06/2020

AGREE PAR L'ANE MAROC
Numéro d'agrément : MR 24102 ANRT 2020
Date d'agrément : 18/05/2020

Paraguay



NR: 2016-9-I-00244

Customer Information

Serbia



South Korea



KCC-REM-DDG-FO3

Syria

SyTRA
REGISTERED No:
1508/4NK

Taiwan



Ukraine



South Africa




Customer Information

United Arab Emirates (U.A.E.)

TRA
REGISTERED No: ER81341/20
DEALER No.: DA88113/20

United States and Canada

 **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: L2C0062TR

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Zambia



SYNC

Argentina

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

CNC ID: C-24008

CNC COMISIÓN NACIONAL
DE COMUNICACIONES

CNC ID: C-24009

Customer Information

Brazil



08657-19-01505

Este equipamento não tem direito à proteção
contra interferência prejudicial e não pode causar
interferência em sistemas devidamente autorizados.



08658-19-01505

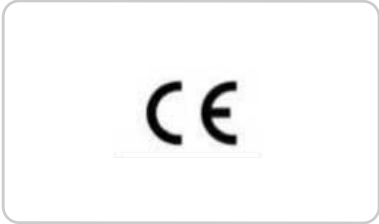
Este equipamento não tem direito à proteção
contra interferência prejudicial e não pode causar
interferência em sistemas devidamente autorizados.

Djibouti

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéro d'agrément : 124/DDTIC/2019
Date d'agrément : 07/08/2019

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)
Numéro d'agrément : 125/DDTIC/2019
Date d'agrément : 07/08/2019

European Union EU



Ghana

NCA APPROVED: ZRO-1H-7E3-182

NCA APPROVED: ZRO-1H-7E3-180

Customer Information

Indonesia

Model: SYNC-G4
Sertifikat Nomor: 80700/SDPPI/2022
PLG ID: 13493



Model: SYNC-G4L
Sertifikat Nomor: **81116**/SDPPI/2022
PLG ID: 13493



Jamaica

This product has been Type Approved by
Jamaica: SMA – SYNC-G4.

This product has been Type Approved by Jamaica: SMA – SYNC-G4L.

Malaysia



SQASI/TA/19/4047

SQASI/TA/19/4046

Mauritania

AGREE PAR L'ANE MAURITANIE
Numéro d'agrément : 0692/ARE/2018
Date d'agrément : 08/08/2019

Customer Information

AGREE PAR L'ANEMAURITANIE
Numéro d'agrément : 0691/ARE/2018
Date d'agrément : 08/08/2019

Morocco

AGREE PAR L'ANRT MAROC
N° D'AGRÈMENT: MR 20608 ANRT 2019
07 AOÛT 2019

Pakistan

Pakistan Telecommunication Authority



Approved by PTA 2019

Moldova



AGREE PAR L'ANRT MAROC
N° D'AGRÈMENT: MR 20606 ANRT 2019
07 AOÛT 2019

Paraguay



Customer Information

2020-03-I-00192

2020-03-I-00193

Serbia



I005 20

Singapore

Complies with IMDA Standards

DA 00461

South Africa



South Korea



MSIP-R-C-FDM-SYNCG4




MSIP-R-C-FDM-SYNCG4L

TA-2019/2466



Customer Information

Taiwan

 CCAB20LP0290T8

Ukraine




TRA
REGISTERED No: ER74903/19
DEALER No: DA37380/15

United Arab Emirates (U.A.E.)

 CCAB20LP0300T1



United States and Canada

 **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: KMH-SYNCG4

FCC ID: KMH-SYNCG4L

IC: 1422A-SYNCG4

Customer Information

IC: 1422A-SYNG4L

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Zambia



TELEMATICS CONTROL UNIT


Brazil



United Arab Emirates (U.A.E.)

TRA
REGISTERED No: ER79019/20
DEALER No: DA36975/14

United States and Canada

 **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: LHJ-FB40ND1

IC: 2807E-FB40ND1

Customer Information

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

TIRE PRESSURE MONITORING SYSTEM SENSORS - VEHICLES WITH: 315 MHZ SENSORS

Brazil



Mexico

IFT: RCPSGAG18-1886
"La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este
equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar
cualquier interferencia, incluyendo la que pueda causar
su operación no deseada."

Nigeria

Connection and use of this
communications
equipment is permitted by the Nigerian
Communications Commission

Singapore

Complies with IMDA Standards

DA 105282

Taiwan



Customer Information

United Kingdom



United States and Canada



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

FCC ID: MRXAG2SM3

IC: 2546A-AG2SM3

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

TIRE PRESSURE MONITORING SYSTEM SENSORS - VEHICLES WITH: 433 MHZ SENSORS

Argentina



Customer Information

Brazil



Democratic Republic of Congo

Agréé par l'ARPTC

N° d'homologation: HIR -0081/6/2018

Date d'homologation: 18/6/2018

Djibouti

AGREE PAR LE MCPT (REPUBLIQUE DE DJIBOUTI)

Numéro d'agrément:

045/DDTIC/2018

Date d'agrément:

06/05/18

European Union EU



The RED 2014/53/EU (replacing R&TTE Directive 1999/5/EC on 13 June 2016) explicitly states that instructions for intentional radiators include reference to "(a) frequency band(s) in which the radio equipment operates; and (b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates," in addition to carrying over the general operational instruction and Declaration of Conformity inclusion requirements from the R&TTE Directive.

Hereby, Schrader Electronics Ltd. declares that the radio equipment type AG2SM4 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

http://www.tpmseuroshop.com/documents/declaration_conformities

תחום תדירים (מח"צ)	הספק (ואט)	רוחב פס (מח"צ)	סוג אנטנה
13.4	0.000010	0.000000	0.000000

Customer Information

Mexico

IFT: RLVSAG18-1012
"La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este
equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar
cualquier interferencia, incluyendo la que pueda causar
su operación no deseada."

Morocco

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR 16506 ANRT 2018
Date d'agrément: 09/05/2018

Oman

OMAN TRA
R/5505/18
D172249

Moldova



Nigeria

Connection and use of this
communications
equipment is permitted by the Nigerian
Communications Commission

Pakistan



Customer Information

Paraguay

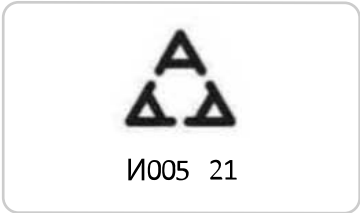


NR: 2018-06-I-000224

**Customs Union (CU) - Belarus,
Kazakhstan and Russia**



Serbia

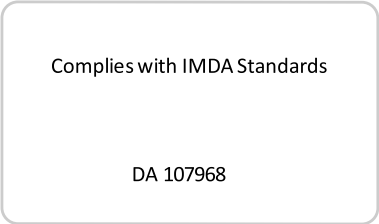


Sierra Leone



TAN: 2018-002-0025

Singapore



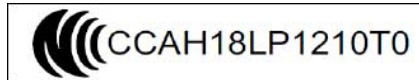
Customer Information

South Africa

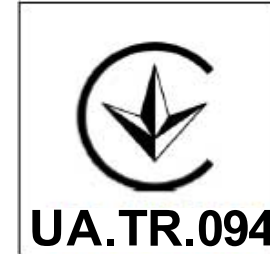


R-CRM-SRD-AG2SM4

Taiwan



Ukraine



South Korea



United Arab Emirates (U.A.E.)

TRA REGISTERED No:

ER97590/21

DEALER No:

DA37380/15

Customer Information

United Kingdom



United States and Canada



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

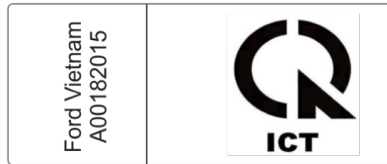
FCC ID: MRXAG2SM4

IC: 2546A- AG2SM4

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Vietnam



C0170230620AF04A2

Zambia



Customer Information

WIRELESS ACCESSORY CHARGING MODULE

Argentina



Brazil

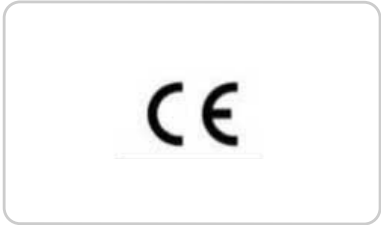


Democratic Republic of Congo

Agréé par l'ARPTC
N° d'homologation : HER-0054/Juin/2021
Date d'homologation : 02/06/2021

Customer Information

European Union



Ghana

NCA APPROVED: 7ES-7M-XB1-RDR

Indonesia

Model: WCFDM00N2A1
Sertifikat Nomor: 80110/SDPPI/2022
PLG ID: 13493



Model: WCFDM00N2A5
Sertifikat Nomor: 80112/SDPPI/2022
PLG ID: 13493



Israel

Model: WCFDM00N2A3
Sertifikat Nomor: 80111/SDPPI/2022
PLG ID: 13493



1. מספר אישור התאמה מטעם משרד התקשורת : 51-80014
2. חל איסור לבצע פעולות במבשור שיש בהן כדי לשנות את תכונותיו האלחוטיות של המבשור, ובכלל זה שינוי תוכנה, החלפת אנטנה מקורית או הוספת אנטנה אפסרות לחיבור לאנטנה חיצונית, בלא קבלת אישור משרד התקשורת, בשל החשש להפרעות אלחוטיות

Customer Information

Jamaica

This product has been Type Approved by Jamaica:
SMA - WCFDM00N2A.

Malaysia



RGEZ/35A/0521/S(21-2033)

RGEZ/35A/0521/S(21-2032)

RGEZ/35A/0521/S(21-2031)

Mauritania

AGREE PAR L'ANE MAURITANIE
Numéro d'agrément : 0935/ARE/2021
Date d'agrément : 23/03/2021

AGREE PAR L'ANE MAURITANIE
Numéro d'agrément : 0934/ARE/2021
Date d'agrément : 23/03/2021

1. מספר אישור התאמה מטעם משרד התקשורת: 51-80015
2. חל איסור לבצע פעולות במכשיר שיש בן כדי לשכות את תכונותיו האלחוטיות של המכשיר, ובכלל זה שינוי תכונה, החלפת אנטנה מקורית או הוספת אפשרות לחיבור לאנטנה חיצונית, בלא קבלת אישור משרד התקשורת, בשל החשש להפרעות אלחוטיות

1. מספר אישור התאמה מטעם משרד התקשורת: 51-80013
2. חל איסור לבצע פעולות במכשיר שיש בן כדי לשכות את תכונותיו האלחוטיות של המכשיר, ובכלל זה שינוי תכונה, החלפת אנטנה מקורית או הוספת אפשרות לחיבור לאנטנה חיצונית, בלא קבלת אישור משרד התקשורת, בשל החשש להפרעות אלחוטיות

Customer Information

Morocco

AGREE PAR L'ANEMAURITANIE
Numéro d'agrément : 0933/ARE/2021
Date d'agrément : 23/03/2021

AGREE PAR L'ANRT MAROC
Numéro d'agrément : MR 00027924ANRT 2021
Date d'agrément : 25/03/2021

AGREE PAR L'ANRT MAROC
Numéro d'agrément : MR 00027923ANRT 2021
Date d'agrément : 25/03/2021

Moldova



AGREE PAR L'ANRT MAROC
Numéro d'agrément : MR 00027925ANRT 2021
Date d'agrément : 25/03/2021

Paraguay



2021-04-I-0204

Customer Information

2021-04-I-0203
2021-04-I-0202

Russia



Serbia



V005 21

Sierra Leone



TAN: 2021-002-0099

Singapore

Complies with IMDA Standards

DA 00461

South Africa



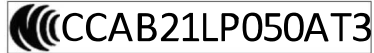
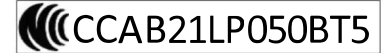
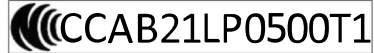
South Korea



Customer Information

R-R-LGE-WCFDM00N2A1

Taiwan



品名 (Product name): 無線充電座

型號 (Type Designation): WCFDM00N2A1, WCFDM00N2A3, WCFDM00N2A5 **產地 (Origin):** 馬來西亞

額定電壓 (Input rating): 12V

製造日期 (Approval date): 2021.04.21



R43208
Rolls

申請廠商名稱 (Approval name): 福特六和汽車股份有限公司

申請廠商地址 (Approval address): 桃園市中壢區中華路一段705號

Customer Information

Ukraine



United Kingdom



United Arab Emirates (U.A.E.)

TRA REGISTERED No:

ER98638/21

DEALER No:

DA37380/15

TRA REGISTERED No:

ER00421/21

DEALER No:

DA37380/15

TRA REGISTERED No:

ER00422/21

DEALER No:

DA37380/15

United States and Canada

FCC ID: BEJWCDFM00N2A

IC: 2703H-WCFDM00N2A

Customer Information

This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, please consult the dealer.

This product is not end-user serviceable.

RF Radiation Exposure Statement: This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1. L'appareil ne doit pas produire de brouillage;*
- 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

Customer Information

Zambia



PERCHLORATE

Certain components in your vehicle such as airbag modules, seatbelt pretensioners and remote control batteries may contain perchlorate material. Special handling may apply for service or vehicle end of life disposal.

For more information visit:
www.dtsc.ca.gov/hazardouswaste/perchlorate.

REPLACEMENT PARTS RECOMMENDATION

We have built your vehicle to the highest standards using quality parts. We recommend that you demand the use of genuine Ford and Motorcraft parts whenever your vehicle requires scheduled maintenance or repair. You can clearly identify genuine Ford and Motorcraft parts by looking for the Ford, FoMoCo or Motorcraft branding on the parts or their packaging.

Scheduled Maintenance and Mechanical Repairs

One of the best ways for you to make sure that your vehicle provides years of service is to have it maintained in line with our recommendations using parts that conform to the specifications detailed in this Owner's Manual.

Genuine Ford and Motorcraft parts meet or exceed these specifications.

Collision Repairs

We hope that you never experience a collision, but accidents happen sometimes.

Genuine Ford replacement collision parts meet our stringent requirements for fit, finish, structural integrity, corrosion protection and dent resistance. During vehicle development we validate that these parts deliver the intended level of protection as a whole system. A great way to know for sure you are getting this level of protection is to use genuine Ford replacement collision parts.

Warranty on Replacement Parts

Genuine Ford and Motorcraft replacement parts are the only replacement parts that benefit from a Ford Warranty.

The Ford Warranty may not cover damage caused to your vehicle as a result of failed non-Ford parts.

For additional information, refer to the terms and conditions of the Ford Warranty.

Customer Information

MOBILE COMMUNICATIONS EQUIPMENT



WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

Using mobile communications equipment is becoming increasingly important in the conduct of business and personal affairs. However, you must not compromise your own or others' safety when using such equipment. Mobile communications can enhance personal safety and security when appropriately used, particularly in emergency situations. Safety must be paramount when

using mobile communications equipment to avoid negating these benefits. Mobile communication equipment includes, but is not limited to, cellular phones, pagers, portable email devices, text messaging devices and portable two-way radios.

FEDERAL HIGHWAY ADMINISTRATION REGULATION

Regulations such as those issued by the Federal Highway Administration or issued pursuant to the Occupational Safety and Health Act (OSHA), and state and local laws and regulations may require additional equipment for the way you intend to use your vehicle. It is the responsibility of the registered owner to determine the applicability of such laws and regulations to your intended use for the vehicle, and to arrange for the installation of required equipment. The dealer has information about the availability of equipment which can be ordered for your vehicle.

END USER LICENSE AGREEMENT

VEHICLE SOFTWARE END USER LICENSE AGREEMENT (EULA)

- You ("You" or "Your" as applicable) have acquired a vehicle having several devices, including SYNC[®] and various control modules, ("DEVICES") that include software licensed or owned by Ford Motor Company and its affiliates ("FORD MOTOR COMPANY"). Those software products of FORD MOTOR COMPANY origin, as well as associated media, printed materials, and "online" or electronic documentation ("SOFTWARE") are protected by international intellectual property laws and treaties. The SOFTWARE is licensed, not sold. All rights reserved.
- The SOFTWARE may interface with and/or communicate with, or may be later upgraded to interface with and/or communicate with additional software and/or systems provided by FORD MOTOR COMPANY.

Customer Information

IF YOU DO NOT AGREE TO THIS END USER LICENSE AGREEMENT ("EULA") DO NOT USE THE DEVICES OR COPY THE SOFTWARE. ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DEVICES, WILL CONSTITUTE YOUR AGREEMENT TO THIS EULA (OR RATIFICATION OF ANY PREVIOUS CONSENT).

GRANT OF SOFTWARE LICENSE: This EULA grants you the following license:

- You may use the SOFTWARE as installed on the DEVICES and as otherwise interfacing with systems and/or services provide by or through FORD MOTOR COMPANY or its third party software and service providers.

Description of Other Rights and Limitations.

- **Speech Recognition:** If the SOFTWARE includes speech recognition component(s), you should understand that speech recognition is an inherently statistical process and that recognition errors are inherent in the process. Neither FORD MOTOR COMPANY nor

its suppliers shall be liable for any damages arising out of errors in the speech recognition process. It is your responsibility to monitor any speech recognition functions included in the system.

- **Limitations on Reverse Engineering, Decompilation and Disassembly:** You may not reverse engineer, decompile, translate, disassemble or attempt to discover any source code or underlying ideas or algorithms of the SOFTWARE nor permit others to reverse engineer, decompile or disassemble the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation or to the extent as may be permitted by the licensing terms governing use of any open source components included with the SOFTWARE.

- **Limitations on Distributing, Copying, Modifying and Creating Derivative Works:** You may not distribute, copy, make modifications to or create derivative works based on the SOFTWARE, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation or to the extent as may be permitted by the licensing terms governing use of any open source components included with the SOFTWARE.
- **Single EULA:** The end user documentation for the DEVICES and related systems and services may contain multiple EULAs, such as multiple translations and/or multiple media versions (e.g., in the user documentation and in the software). Even if you receive multiple EULAs, you are licensed to use only one (1) copy of the SOFTWARE.

Customer Information

- **SOFTWARE Transfer:** You may permanently transfer your rights under this EULA only as part of a sale or transfer of the DEVICES, provided you retain no copies, you transfer all of the SOFTWARE (including all component parts, the media and printed materials, any upgrades, and, if applicable, the Certificate(s) of Authenticity), and the recipient agrees to the terms of this EULA. If the SOFTWARE is an upgrade, any transfer must include all prior versions of the SOFTWARE.
- **Termination:** Without prejudice to any other rights, FORD MOTOR COMPANY may terminate this EULA if you fail to comply with the terms and conditions of this EULA.
- **Internet-Based Services Components:** The SOFTWARE may contain components that enable and facilitate the use of certain Internet-based services. You acknowledge and agree that FORD MOTOR COMPANY, third party software and service suppliers, its affiliates and/or its designated agent may

automatically check the version of the SOFTWARE and/or its components that you are utilizing and may provide upgrades or supplements to the SOFTWARE that may be automatically downloaded to your DEVICES.

- **Additional Software/Services:** The SOFTWARE may permit FORD MOTOR COMPANY, third party software and service suppliers, its affiliates and/or its designated agent to provide or make available to you SOFTWARE updates, supplements, add-on components, or Internet-based services components of the SOFTWARE after the date you obtain your initial copy of the SOFTWARE ("Supplemental Components"). SOFTWARE updates may cause you to incur additional charges from your wireless service provider. If FORD MOTOR COMPANY or third party software and services suppliers provide or make available to you Supplemental Components and no other EULA terms are provided along with the Supplemental Components, then the terms of this EULA shall apply. FORD

MOTOR COMPANY, its affiliates and/or its designated agent reserve the right to discontinue without liability any Internet-based services provided to you or made available to you through the use of the SOFTWARE.

Customer Information

- **Links to Third Party Sites:** The SOFTWARE may provide you with the ability to link to third party sites. The third party sites are not under the control of FORD MOTOR COMPANY, its affiliates and/or its designated agent. Neither FORD MOTOR COMPANY nor its affiliates nor its designated agent are responsible for (i) the contents of any third party sites, any links contained in third party sites, or any changes or updates to third party sites, or (ii) webcasting or any other form of transmission received from any third party sites. If the SOFTWARE provides links to third party sites, those links are provided to you only as a convenience, and the inclusion of any link does not imply an endorsement of the third party site by FORD MOTOR COMPANY, its affiliates and/or its designated agent.
- **Obligation to Drive Responsibly:** You recognize your obligation to drive responsibly and keep attention on the road. You will read and abide with the DEVICES operating instructions particularly as they pertain to safety and you agree to assume any risk associated

with the use of the DEVICES.

UPGRADES AND RECOVERY MEDIA: If the SOFTWARE is provided by FORD MOTOR COMPANY separate from the DEVICES on media such as a ROM chip, CD ROM disk(s) or via web download or other means, and is labeled "For Upgrade Purposes Only" or "For Recovery Purposes Only" you may install one (1) copy of such SOFTWARE onto the DEVICES as a replacement copy for the existing SOFTWARE, and use it in accordance with this EULA, including any additional EULA terms accompanying the upgrade SOFTWARE.

INTELLECTUAL PROPERTY RIGHTS: All title and intellectual property rights in and to the SOFTWARE (including but not limited to any images, photographs, animations, video, audio, music, text and "applets" incorporated into the SOFTWARE), the accompanying printed materials, and any copies of the SOFTWARE, are owned by FORD MOTOR COMPANY, or its affiliates or suppliers. The SOFTWARE is licensed, not sold. You may not copy the printed materials accompanying the SOFTWARE. All title and intellectual property rights in and to the content which

may be accessed through use of the SOFTWARE is the property of the respective content owner and may be protected by applicable copyright or other intellectual property laws and treaties. This EULA grants you no rights to use such content outside its intended use. All rights not specifically granted under this EULA are reserved by FORD MOTOR COMPANY, its affiliates, and third party software and service providers and suppliers. Use of any on-line services which may be accessed through the SOFTWARE may be governed by the respective terms of use relating to such services. If this SOFTWARE contains documentation that is provided only in electronic form, you may print one copy of such electronic documentation.

Customer Information

EXPORT RESTRICTIONS: You acknowledge that the SOFTWARE is subject to U.S. and European Union export jurisdiction. You agree to comply with all applicable international and national laws that apply to the SOFTWARE, including the U.S. Export Administration Regulations, as well as end-user, end-use and destination restrictions issued by U.S. and other governments.

TRADEMARKS: This EULA does not grant you any rights in connection with any trademarks or service marks of FORD MOTOR COMPANY, its affiliates, and third party software and service providers.

PRODUCT SUPPORT: Please refer to FORD MOTOR COMPANY instructions provided in the documentation for the DEVICES product support, such as the vehicle owner guide.

Should you have any questions concerning this EULA, or if you desire to contact FORD MOTOR COMPANY for any other reason, please refer to the address provided in the documentation for the DEVICES.

No Liability for Certain Damages: EXCEPT AS PROHIBITED BY LAW, FORD MOTOR COMPANY, ANY THIRD PARTY SOFTWARE OR SERVICES SUPPLIERS, AND THEIR AFFILIATES SHALL HAVE NO LIABILITY FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE SOFTWARE. THIS LIMITATION SHALL APPLY EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE. THERE ARE NO WARRANTIES OTHER THAN THOSE THAT MAY BE EXPRESSLY PROVIDED FOR YOUR NEW VEHICLE.

SYNC® Automotive Important Safety Information Read and follow instructions:

- Before using your SYNC® system, read and follow all instructions and safety information provided in this end user manual ("Owner Guide".) Not following precautions found in the Owner Guide can lead to an accident or other serious injuries.

General Operation

- **Voice Command Control:** Certain functions within the SYNC® system may be accomplished using voice commands. Using voice commands while driving helps you to operate the system without removing your hands from the wheel or eyes from the road.
- **Prolonged Views of Screen:** Do not access any function requiring a prolonged view of the screen while you are driving. Pull over in a safe and legal manner before attempting to access a function of the system requiring prolonged attention.
- **Volume Setting:** Do not raise the volume excessively. Keep the volume at a level where you can still hear outside traffic and emergency signals while driving. Driving while unable to hear these sounds could cause an accident.

Customer Information

- **Navigation Features:** Any navigation features included in the system are intended to provide turn by turn instructions to get you to a desired destination. Please make certain all persons using this system carefully read and follow instructions and safety information fully.
- **Distraction Hazard:** Any navigation features may require manual (non-verbal) setup. Attempting to perform such set-up or insert data while driving can distract your attention and could cause an accident or other serious injury. Stop the vehicle in a safe and legal manner before attempting these operations.
- **Let Your Judgment Prevail:** Any navigation features are provided only as an aid. Make your driving decisions based on your observations of local conditions and existing traffic regulations. Any such feature is not a substitute for your personal judgment. Any route suggestions made by this system should never replace any local traffic regulations or your personal judgment or knowledge of safe driving practices.
- **Route Safety:** Do not follow the route suggestions if doing so would result in an unsafe or illegal maneuver, if you would be placed in an unsafe situation, or if you would be directed into an area that you consider unsafe. The driver is ultimately responsible for the safe operation of the vehicle and therefore, must evaluate whether it is safe to follow the suggested directions.
- **Potential Map Inaccuracy:** Maps used by this system may be inaccurate because of changes in roads, traffic controls or driving conditions. Always use good judgment and common sense when following the suggested routes.
- **Emergency Services:** Do not rely on any navigation features included in the system to route you to emergency services. Ask local authorities or an emergency services operator for these locations. Not all emergency services such as police, fire stations, hospitals and clinics are likely to be contained in the map database for such navigation features.

Customer Information

Your Responsibilities and Assumptions of
Risk

Customer Information

- You agree to each of the following:(a) Any use of the SOFTWARE while driving an automobile or other vehicle in violation of applicable law or otherwise driving in an unsafe manner presents a significant risk of distracted driving and should not be attempted under any circumstances;(b) Use of the SOFTWARE at excessive volume poses a significant risk of hearing damage and should not be attempted under any circumstances;(c) The SOFTWARE may not be compatible with new or different versions of an operating system, third party software, or third party services, and the SOFTWARE may potentially cause a critical failure of an operating system, third party software, or third party service.(d) Any third party service accessed by or third party software used with the SOFTWARE (i) may charge an additional fee for access, (ii) may not work correctly, on an uninterrupted basis, or error free, (iii) may change streaming formats or discontinue operation, (iv) may contain adult, profane or offensive content; and (v) may contain inaccurate, false or misleading traffic, weather,

financial or safety information or other content; and (e) Use of the SOFTWARE may cause you to incur additional charges from your wireless service provider (WSP) and any data or minute calculators that may be included in the software program are for reference only, are not warranted in any way and should not be relied upon in anyway.

- When using the SOFTWARE, you agree to be responsible for and assume the entire risk to the items set forth in Section (a) – (e) above.

Disclaimer of Warranty

YOU EXPRESSLY ACKNOWLEDGE AND AGREE THAT USE OF THE DEVICES AND SOFTWARE IS AT YOUR SOLE RISK AND THAT THE ENTIRE RISK AS TO SATISFACTORY QUALITY, PERFORMANCE, COMPATIBILITY, ACCURACY AND EFFORT IS WITH YOU. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE SOFTWARE AND ANY THIRD PARTY SOFTWARE OR THIRD-PARTY SERVICES ARE PROVIDED "AS IS" AND "AS AVAILABLE", WITH ALL FAULTS AND

WITHOUT WARRANTY OF ANY KIND, AND FORD MOTOR COMPANY HEREBY DISCLAIMS ALL WARRANTIES AND CONDITIONS WITH RESPECT TO THE SOFTWARE, THIRD PARTY SOFTWARE, AND THIRD-PARTY SERVICES, EITHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES AND/OR CONDITIONS OF MERCHANTABILITY, OF SATISFACTORY QUALITY, OF FITNESS FOR AN ARTICULAR PURPOSE, OF ACCURACY, OF QUIET ENJOYMENT, AND NON-INFRINGEMENT OF THIRD-PARTY RIGHTS. FORD MOTOR COMPANY DOES NOT WARRANT (a) AGAINST INTERFERENCE WITH YOUR ENJOYMENT OF THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES, (b) THAT THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES WILL MEET YOUR REQUIREMENTS, (c) THAT THE OPERATION OF THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES WILL BE UNINTERRUPTED OR ERROR-FREE, (d) OR THAT DEFECTS IN THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES WILL BE CORRECTED. NO ORAL

Customer Information

OR WRITTEN INFORMATION OR ADVICE GIVEN BY FORD MOTOR COMPANY OR ITS AUTHORIZED REPRESENTATIVE SHALL CREATE A WARRANTY. SHOULD THE SOFTWARE, THIRD PARTY SOFTWARE, OR THIRD-PARTY SERVICES PROVE DEFECTIVE, YOU ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION. SOME JURISDICTIONS DO NOT ALLOW THE DISCLAIMER OF IMPLIED WARRANTIES OR LIMITATIONS ON APPLICABLE STATUTORY RIGHTS OF A CONSUMER, SO THE ABOVE DISCLAIMER MAY NOT FULLY APPLY TO YOU. THE SOLE WARRANTY PROVIDED BY FORD MOTOR COMPANY SHALL BE FOUND IN THE WARRANTY INFORMATION INCLUDING WITH YOUR OWNER GUIDE. TO THE EXTENT THAT THERE IS ANY CONFLICT BETWEEN THE TERMS OF THIS SECTION AND THE WARRANTY BOOKLET, THE WARRANTY BOOKLET SHALL CONTROL.

Applicable Law, Venue, Jurisdiction

- The laws of the State of Michigan govern this EULA and Your use of the SOFTWARE. Your use of the SOFTWARE may also be subject to other local, state, national, or international laws. Any litigation arising out of or related to this EULA shall be brought and maintained exclusively in a court of the State of Michigan located in Wayne County or in the United States District Court for the Eastern District of Michigan. You hereby consent to submit to the personal jurisdiction of a court in the State of Michigan located in Wayne County and the United States District Court for the Eastern District of Michigan for any dispute arising out of or relating to this EULA.

Binding Arbitration and Class Action Waiver

(a) Application. This Section applies to any dispute EXCEPT IT DOES NOT INCLUDE A DISPUTE RELATING TO COPYRIGHT INFRINGEMENT, OR TO THE ENFORCEMENT OR VALIDITY OF YOUR, FORD MOTOR COMPANY, OR ANY OF

FORD MOTOR COMPANY'S LICENSORS' INTELLECTUAL PROPERTY RIGHTS. Dispute means any dispute, action, or other controversy between You and FORD MOTOR COMPANY, other than the exceptions listed above, concerning the SOFTWARE (including its price) or this EULA, whether in contract, warranty, tort, statute, regulation, ordinance, or any other legal or equitable basis.

(b) Notice of Dispute. In the event of a Dispute, You or FORD MOTOR COMPANY must give the other a "Notice of Dispute", which is a written statement of the name, address, and contact information of the party giving it, the facts giving rise to the dispute, and the relief requested. You and FORD MOTOR COMPANY will attempt to resolve any dispute through informal negotiation within 60 days from the date the Notice of Dispute is sent. After 60 days, You or FORD MOTOR COMPANY may commence arbitration.

Customer Information

(c) Small claims court. You may also litigate any dispute in small claims court in your county of residence or FORD MOTOR COMPANY'S principal place of business, if the dispute meets all requirements to be heard in the small claims court. You may litigate in small claims court whether or not You negotiated informally first.

(d) Binding arbitration. If You and FORD MOTOR COMPANY, do not resolve any dispute by informal negotiation or in small claims court, any other effort to resolve the dispute will be conducted exclusively by binding arbitration. You are giving up the right to litigate (or participate in as a party or class member) all disputes in court before a judge or jury. Instead, all disputes will be resolved before a neutral arbitrator, whose decision will be final except for a limited right of appeal under the Federal Arbitration Act. Any court with jurisdiction over the parties may enforce the arbitrator's award.

(e) Class action waiver. Any proceedings to resolve or litigate any dispute in any forum will be conducted solely on an individual basis. Neither you nor FORD MOTOR COMPANY, will seek to have any dispute heard as a class action, as a private attorney general action, or in any other proceeding in which any party acts or proposes to act in a representative capacity. No arbitration or proceeding will be combined with another without the prior written consent of all parties to all affected arbitrations or proceedings.

(f) Arbitration procedure. Any arbitration will be conducted by the American Arbitration Association (the "AAA"), under its Commercial Arbitration Rules. If You are an individual and use the SOFTWARE for personal or vehicle use, or if the value of the dispute is \$75,000 or less whether or not You are an individual or how You use the SOFTWARE, the AAA Supplementary Procedures for Consumer-Related Disputes will also apply. To commence arbitration, submit a Commercial Arbitration Rules Demand for Arbitration form to the AAA. You may request a telephonic or in-person hearing by following the AAA rules. In a

dispute involving \$10,000 or less, any hearing will be telephonic unless the arbitrator finds good cause to hold an in-person hearing instead. For more information, see adr.org or call 1-800-778-7879. You agree to commence arbitration only in your county of residence or FORD MOTOR COMPANY'S principal place of business. The arbitrator may award the same damages to you individually as a court could. The arbitrator may award declaratory or injunctive relief only to you individually, and only to the extent required to satisfy your individual claim.

(g) Arbitration fees and incentives.

- I. Disputes involving \$75,000 or less. FORD MOTOR COMPANY will promptly reimburse your filing fees and pay the AAA's and arbitrator's fees and expenses. If you reject FORD MOTOR COMPANY'S last written settlement offer made before the arbitrator was appointed ("last written offer"), your dispute goes all the way to an arbitrator's decision (called an "award"), and the arbitrator awards you more than the last written offer, FORD MOTOR COMPANY will give

Customer Information

you three incentives: (1) pay the greater of the award or \$1,000; (2) pay twice your reasonable attorney's fees, if any; and (3) reimburse any expenses (including expert witness fees and costs) that your attorney reasonably accrues for investigating, preparing, and pursuing your claim in arbitration. The arbitrator will determine the amounts.

- ii. Disputes involving more than \$75,000. The AAA rules will govern payment of filing fees and the AAA's and arbitrator's fees and expenses.
- iii. Disputes involving any amount. In any arbitration you commence, FORD MOTOR COMPANY will seek its AAA or arbitrator's fees and expenses, or Your filing fees it reimbursed, only if the arbitrator finds the arbitration frivolous or brought for an improper purpose. In any arbitration FORD MOTOR COMPANY commences, it will pay all filing, AAA, and arbitrator's fees and expenses. It will not seek its attorney's fees or expenses from you in any arbitration. Fees and expenses are not counted in determining how much a dispute involves.

(h) Claims or disputes must be filed within one year. To the extent permitted by law, any claim or dispute under this EULA to which this Section applies must be filed within one year in small claims court (Section c) or in arbitration (Section d). The one-year period begins when the claim or dispute first could be filed. If such a claim or dispute is not filed within one year, it is permanently barred.

(I) Severability. If the class action waiver (Section e) is found to be illegal or unenforceable as to all or some parts of a dispute, then that portion of Section e will not apply to those parts. Instead, those parts will be severed and proceed in a court of law, with the remaining parts proceeding in arbitration. If any other provision of that portion Section e is found to be illegal or unenforceable, that provision will be severed with the remainder of Section e remaining in full force and effect.

Telenav Software End User License Agreement

Please read these terms and conditions carefully before you use the TeleNav Software. Your use of the TeleNav Software indicates that you accept these terms and conditions. If you do not accept these terms and conditions, do not break the seal of the package, launch, or otherwise use the TeleNav Software. TeleNav may revise this Agreement and the privacy policy at any time, with or without notice to you. You agree to visit <http://www.telenav.com> from time to time to review the then current version of this Agreement and of the privacy policy.

1. Safe and Lawful Use

You acknowledge that devoting attention to the TeleNav Software may pose a risk of injury or death to you and others in situations that otherwise require your undivided attention, and you therefore agree to comply with the following when using the TeleNav Software:

- (a) observe all traffic laws and otherwise drive safely;

Customer Information

(b) use your own personal judgment while driving. If you feel that a route suggested by the TeleNav Software instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or directs you into an area that you consider to be unsafe, do not follow such instructions;

(c) do not input destinations, or otherwise manipulate the TeleNav Software, unless your vehicle is stationary and parked;

(d) do not use the TeleNav Software for any illegal, unauthorized, unintended, unsafe, hazardous, or unlawful purposes, or in any manner inconsistent with this Agreement;

(e) arrange all GPS and wireless devices and cables necessary for use of the TeleNav Software in a secure manner in your vehicle so that they will not interfere with your driving and will not prevent the operation of any safety device (such as an airbag).

You agree to indemnify and hold TeleNav harmless against all claims resulting from any dangerous or otherwise inappropriate use of the TeleNav Software in any moving vehicle, including as a result of your failure to comply with the directions above.

2. Account Information

You agree: (a) when registering the TeleNav Software, to provide TeleNav with true, accurate, current, and complete information about yourself, and (b) to inform TeleNav promptly of any changes to such information, and to keep it true, accurate, current and complete.

3. Software License

- Subject to your compliance with the terms of this Agreement, TeleNav hereby grants to you a personal, non-exclusive, non-transferable license (except as expressly permitted below in connection with your permanent transfer of the TeleNav Software license), without the right to sublicense, to use the TeleNav Software (in object code form only) in order to access and use the TeleNav Software. This license shall terminate upon any termination or expiration of this Agreement. You agree that you will use the TeleNav Software only for your personal business or leisure purposes, and not to provide commercial navigation services to other parties.

3.1 License Limitations

- **(a)** reverse engineer, decompile, disassemble, translate, modify, alter or otherwise change the TeleNav Software or any part thereof; **(b)** attempt to derive the source code, audio library or structure of the TeleNav Software without the prior express written consent of TeleNav; **(c)** remove from the TeleNav Software, or alter, any of TeleNav's or its suppliers' trademarks, trade names, logos, patent or copyright notices, or other notices or markings; **(d)** distribute, sublicense or otherwise transfer the TeleNav Software to others, except as part of your permanent transfer of the TeleNav Software; or **(e)** use the TeleNav Software in any manner that
 - i. infringes the intellectual property or proprietary rights, rights of publicity or privacy or other rights of any party,
 - ii. violates any law, statute, ordinance or regulation, including but not limited to laws and regulations related to spamming, privacy, consumer and child protection, obscenity or defamation, or

Customer Information

iii. is harmful, threatening, abusive, harassing, tortuous, defamatory, vulgar, obscene, libelous, or otherwise objectionable; and (f) lease, rent out, or otherwise permit unauthorized access by third parties to the TeleNav Software without advanced written permission of TeleNav.

4. Disclaimers

- To the fullest extent permissible pursuant to applicable law, in no event will TeleNav, its licensors and suppliers, or agents or employees of any of the foregoing, be liable for any decision made or action taken by you or anyone else in reliance on the information provided by the TeleNav Software. TeleNav also does not warrant the accuracy of the map or other data used for the TeleNav Software. Such data may not always reflect reality due to, among other things, road closures, construction, weather, new roads and other changing conditions. You are responsible for the entire risk arising out of your use of the TeleNav Software. For example but without limitation, you agree not to rely

on the TeleNav Software for critical navigation in areas where the well-being or survival of you or others is dependent on the accuracy of navigation, as the maps or functionality of the TeleNav Software are not intended to support such high risk applications, especially in more remote geographical areas.

- TELENAV EXPRESSLY DISCLAIMS AND EXCLUDES ALL WARRANTIES IN CONNECTION WITH THE TELENAV SOFTWARE, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES WHICH MAY ARISE FROM COURSE OF DEALING, CUSTOM OR TRADE AND INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS WITH RESPECT TO THE TELENAV SOFTWARE.
- Certain jurisdictions do not permit the disclaimer of certain warranties, so this limitation may not apply to you.

5. Limitation of Liability

- TO THE EXTENT PERMITTED UNDER APPLICABLE LAW, UNDER NO CIRCUMSTANCES SHALL TELENAV OR ITS LICENSORS AND SUPPLIERS BE LIABLE TO YOU OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR EXEMPLARY DAMAGES (INCLUDING IN EACH CASE, BUT NOT LIMITED TO, DAMAGES FOR THE INABILITY TO USE THE EQUIPMENT OR ACCESS DATA, LOSS OF DATA, LOSS OF BUSINESS, LOSS OF PROFITS, BUSINESS INTERRUPTION OR THE LIKE) ARISING OUT OF THE USE OF OR INABILITY TO USE THE TELENAV SOFTWARE, EVEN IF TELENAV HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOTWITHSTANDING ANY DAMAGES THAT YOU MIGHT INCUR FOR ANY REASON WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ALL DAMAGES REFERENCED HEREIN AND ALL DIRECT OR GENERAL DAMAGES IN CONTRACT, TORT (INCLUDING NEGLIGENCE) OR

Customer Information

OTHERWISE), THE ENTIRE LIABILITY OF TELENV AND OF ALL OF TELENV'S SUPPLIERS SHALL BE LIMITED TO THE AMOUNT ACTUALLY PAID BY YOU FOR THE TELENV SOFTWARE. SOME STATES AND/OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

6. Arbitration and Governing Law

- You agree that any dispute, claim or controversy arising out of or relating to this Agreement or the TeleNav Software shall be settled by independent arbitration involving a neutral arbitrator and administered by the American Arbitration Association in the County of Santa Clara, California. The arbitrator shall apply the Commercial Arbitration Rules of the American Arbitration Association, and the judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction. Note that there is no judge or jury in an

arbitration proceeding and the decision of the arbitrator shall be binding upon both parties. You expressly agree to waive your right to a jury trial. This Agreement and performance hereunder will be governed by and construed in accordance with the laws of the State of California, without giving effect to its conflict of law provisions. To the extent judicial action is necessary in connection with the binding arbitration, both TeleNav and you agree to submit to the exclusive jurisdiction of the courts of the County of Santa Clara, California. The United Nations Convention on Contracts for the International Sale of Goods shall not apply.

7. Assignment

- You may not resell, assign, or transfer this Agreement or any of your rights or obligations, except in totality, in connection with your permanent transfer of the TeleNav Software, and expressly conditioned upon the new user of the TeleNav Software agreeing to be bound by the terms and conditions of this

Agreement. Any such sale, assignment or transfer that is not expressly permitted under this paragraph will result in immediate termination of this Agreement, without liability to TeleNav, in which case you and all other parties shall immediately cease all use of the TeleNav Software. Notwithstanding the foregoing, TeleNav may assign this Agreement to any other party at any time without notice, provided the assignee remains bound by this Agreement.

8. Miscellaneous

8.1

This Agreement constitutes the entire agreement between TeleNav and you with respect to the subject matter hereof.

8.2

Except for the limited licenses expressly granted in this Agreement, TeleNav retains all right, title and interest in and to the TeleNav Software, including without limitation all related intellectual property rights. No licenses or other rights which are

Customer Information

not expressly granted in this Agreement are intended to, or shall be, granted or conferred by implication, statute, inducement, estoppel or otherwise, and TeleNav and its suppliers and licensors hereby reserve all of their respective rights other than the licenses explicitly granted in this Agreement.

8.3

By using the TeleNav Software, you consent to receive from TeleNav all communications, including notices, agreements, legally required disclosures or other information in connection with the TeleNav Software (collectively, "Notices") electronically. TeleNav may provide such Notices by posting them on TeleNav's Website or by downloading such Notices to your wireless device. If you desire to withdraw your consent to receive Notices electronically, you must discontinue your use of the TeleNav Software.

8.4

TeleNav's or your failure to require performance of any provision shall not affect that party's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

8.5

If any provision herein is held unenforceable, then such provision will be modified to reflect the intention of the parties, and the remaining provisions of this Agreement will remain in full force and effect.

8.6

The headings in this Agreement are for convenience of reference only, will not be deemed to be a part of this Agreement, and will not be referred to in connection with the construction or interpretation of this Agreement. As used in this Agreement, the words "include" and "including" and variations thereof, will not be deemed to be terms of limitation, but rather will be deemed to be followed by the words "without limitation".

9. Other Vendors Terms and Conditions

- The Telenav Software utilizes map and other data licensed to Telenav by third party vendors for the benefit of you and other end users. This Agreement includes end-user terms applicable to these companies (included at the end of this Agreement), and thus your use of the Telenav Software is also subject to such terms. You agree to comply with the following additional terms and conditions, which are applicable to Telenav's third party vendor licensors.

Customer Information

9.1 End User Terms Required by HERE North America, LLC

The data (“Data”) is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms and conditions which are agreed to by you, on the one hand, and Telenav (“Telenav”) and its licensors (including their licensors and suppliers) on the other hand.

© 2013 HERE. All rights reserved.

The Data for areas of Canada includes information taken with permission from Canadian authorities, including: © Her Majesty the Queen in Right of Canada, © Queen's Printer for Ontario, © Canada Post Corporation, GeoBase®, © Department of Natural Resources Canada.

HERE holds a non-exclusive license from the United States Postal Service® to publish and sell ZIP+4® information.

©United States Postal Service® 2014. Prices are not established, controlled or approved by the United States Postal Service®. The following trademarks and registrations are owned by the USPS: United States Postal Service, USPS, and ZIP+4

The Data for Mexico includes certain data from Instituto Nacional de Estadística y Geografía.

9.2 End User Terms Required by NAV2 (Shanghai) Co., Ltd

The data (“Data”) is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms and conditions which are agreed to by you, on the one hand, and NAV2 (Shanghai) Co., Ltd (“NAV2”) and its licensors (including their licensors and suppliers) on the other hand. 20xx. All rights reserved

Terms and Conditions

Permitted Use. You agree to use this Data together with the Telenav Software solely for the internal business and personal purposes for which you were licensed, and not for service bureau, time-sharing or other similar purposes. Accordingly, but subject to the restrictions set forth in the following paragraphs, you agree not to otherwise reproduce, copy, modify, decompile, disassemble, create any derivative works of, or reverse engineer any portion of this Data, and may not transfer or distribute it in any form, for any purpose, except to the extent permitted by mandatory laws.

Restrictions. Except where you have been specifically licensed to do so by Telenav, and without limiting the preceding paragraph, you may not use this Data (a) with any products, systems, or applications installed or otherwise connected to or in communication with vehicles, capable of vehicle navigation, positioning, dispatch, real time route guidance, fleet management or similar applications; or (b) with or in

Customer Information

communication with any positioning devices or any mobile or wireless-connected electronic or computer devices, including without limitation cellular phones, palmtop and handheld computers, pagers, and personal digital assistants or PDAs.

Warning. The Data may contain inaccurate or incomplete information due to the passage of time, changing circumstances, sources used and the nature of collecting comprehensive geographic data, any of which may lead to incorrect results.

No Warranty. This Data is provided to you “as is,” and you agree to use it at your own risk. Telenav and its licensors (and their licensors and suppliers) make no guarantees, representations or warranties of any kind, express or implied, arising by law or otherwise, including but not limited to, content, quality, accuracy, completeness, effectiveness, reliability, fitness for a particular purpose, usefulness, use or results to be obtained from this Data, or that the Data or server will be uninterrupted or error-free.

Disclaimer of Warranty: TELENAV AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, OF QUALITY, PERFORMANCE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. Some States, Territories and Countries do not allow certain warranty exclusions, so to that extent the above exclusion may not apply to you.

Disclaimer of Liability: TELENAV AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) SHALL NOT BE LIABLE TO YOU: IN RESPECT OF ANY CLAIM, DEMAND OR ACTION, IRRESPECTIVE OF THE NATURE OF THE CAUSE OF THE CLAIM, DEMAND OR ACTION ALLEGING ANY LOSS, INJURY OR DAMAGES, DIRECT OR INDIRECT, WHICH MAY RESULT FROM THE USE OR POSSESSION OF THE INFORMATION; OR FOR ANY LOSS OF PROFIT, REVENUE, CONTRACTS OR SAVINGS, OR ANY OTHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF YOUR USE OF OR INABILITY TO USE

THIS INFORMATION, ANY DEFECT IN THE INFORMATION, OR THE BREACH OF THESE TERMS OR CONDITIONS, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, EVEN IF TELENAV OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some States, Territories and Countries do not allow certain liability exclusions or damages limitations, so to that extent the above may not apply to you.

Export Control. You shall not export from anywhere any part of the Data or any direct product thereof except in compliance with, and with all licenses and approvals required under, applicable export laws, rules and regulations, including but not limited to the laws, rules and regulations administered by the Office of Foreign Assets Control of the U.S. Department of Commerce and the Bureau of Industry and Security of the U.S. Department of Commerce. To the extent that any such export laws, rules or regulations prohibit HERE from complying with any of its obligations hereunder to deliver or distribute Data, such failure shall be excused and shall not constitute a breach of this Agreement.

Customer Information

Entire Agreement. These terms and conditions constitute the entire agreement between Telenav (and its licensors, including their licensors and suppliers) and you pertaining to the subject matter hereof, and supersedes in their entirety any and all written or oral agreements previously existing between us with respect to such subject matter.

Governing Law. The above terms and conditions shall be governed by the laws of the State of Illinois [insert “Netherlands” where European HERE Data is used], without giving effect to (i) its conflict of laws provisions, or (ii) the United Nations Convention for Contracts for the International Sale of Goods, which is explicitly excluded. You agree to submit to the jurisdiction of the State of Illinois [insert “The Netherlands” where European HERE Data is used] for any and all disputes, claims and actions arising from or in connection with the Data provided to you hereunder.

Government End Users. If the Data is being acquired by or on behalf of the United States government or any other entity seeking or applying rights similar to those customarily claimed by the United States government, this Data is a “commercial item” as that term is defined at 48 C.F.R. (“FAR”) 2.101, is licensed in accordance with these End-User Terms, and each copy of Data delivered or otherwise furnished shall be marked and embedded as appropriate with the following “Notice of Use,” and shall be treated in accordance with such Notice:

NOTICE OF USE
CONTRACTOR (MANUFACTURER/ SUPPLIER) NAME: HERE
CONTRACTOR (MANUFACTURER/ SUPPLIER) ADDRESS: c/o Nokia, 425 West Randolph Street, Chicago, Illinois 60606
This Data is a commercial item as defined in FAR 2.101 and is subject to these End- User Terms under which this Data was provided.
© 1987 – 2014 HERE – All rights reserved.

If the Contracting Officer, federal government agency, or any federal official refuses to use the legend provided herein, the Contracting Officer, federal government agency, or any federal official must notify HERE prior to seeking additional or alternative rights in the Data.

I. US/Canada Territory

A. United States Data. The End-User Terms for any Application containing Data for the United States shall contain the following notices:

“HERE holds a non-exclusive license from the United States Postal Service® to publish and sell ZIP+4® information.”

“©United States Postal Service® 20XX. Prices are not established, controlled or approved by the United States Postal Service®. The following trademarks and registrations are owned by the USPS: United States Postal Service, USPS, and ZIP+4.”

Customer Information

B. Canada Data. The following provisions apply to the Data for Canada, which may include or reflect data from third party licensors (“Third Party Data”), including Her Majesty the Queen in Right of Canada (“Her Majesty”), Canada Post Corporation (“Canada Post”) and the Department of Natural Resources of Canada (“NRCan”):

1. Disclaimer and Limitation: Client agrees that its use of the Third Party Data is subject to the following provisions:

a. Disclaimer: The Third Party Data is licensed on an “as is” basis. The licensors of such data, including Her Majesty, Canada Post and NRCan, make no guarantees, representations or warranties respecting such data, either express or implied, arising by law or otherwise, including but not limited to, effectiveness, completeness, accuracy or fitness for a particular purpose.

b. Limitation on Liability: The Third Party Data licensors, including Her Majesty, Canada Post and NRCan, shall not be liable: (i) in respect of any claim, demand or action, irrespective of the nature of the cause of the claim, demand or action alleging any loss, injury or damages, direct or indirect, which may result from the use or possession of such Data; or (ii) in any way for loss of revenues or contracts, or any other consequential loss of any kind resulting from any defect in the Data.

2. Copyright Notice: In connection with each copy of all or any portion of the Data for the Territory of Canada, Client shall affix in a conspicuous manner the following copyright notice on at least one of: (i) the label for the storage media of the copy; (ii) the packaging for the copy; or (iii) other materials packaged with the copy, such as user manuals or end user license agreements: “This data includes information taken with permis-

sion from Canadian authorities, including © Her Majesty the Queen in Right of Canada, © Queen's Printer for Ontario, © Canada Post Corporation, GeoBase®, © The Department of Natural Resources Canada. All rights reserved.”

3. End-User Terms: Except as otherwise agreed by the parties, in connection with the provision of any portion of the Data for the Territory of Canada to End-Users as may be authorized under the Agreement, Client shall provide such End-Users, in a reasonably conspicuous manner, with terms (set forth with other end user terms required to be provided

Customer Information

under the Agreement, or as otherwise may be provided, by Client) which shall include the following provisions on behalf of the Third Party Data licensors, including Her Majesty, Canada Post and NRCan:

The Data may include or reflect data of licensors, including Her Majesty the Queen in the Right of Canada (“Her Majesty”), Canada Post Corporation (“Canada Post”) and the Department of Natural Resources Canada (“NRCan”). Such data is licensed on an “as is” basis. The licensors, including Her Majesty, Canada Post and NRCan, make no guarantees, representations or warranties respecting such data, either express or implied, arising by law or otherwise, including but not limited to, effectiveness, completeness, accuracy or fitness for a particular purpose. The licensors, including Her Majesty, Canada Post and NRCan, shall not be liable in respect of any claim, demand or action, irrespective of the nature of the cause of the claim, demand or

action alleging any loss, injury or damages, direct or indirect, which may result from the use or possession of the data or the Data. The licensors, including Her Majesty, Canada Post and NRCan, shall not be liable in any way for loss of revenues or contracts, or any other consequential loss of any kind resulting from any defect in the data or the Data. End User shall indemnify and save harmless the licensors, including Her Majesty, Canada Post and NRCan, and their officers, employees and agents from and against any claim, demand or action, irrespective of the nature of

the cause of the claim, demand or action, alleging loss, costs, expenses, damages or injuries (including injuries resulting in death) arising out of the use or possession of the data or the Data.

4. Additional Provisions: The terms contained in this Section are in addition to all of the rights and obligations of the parties under the Agreement. To the extent that any of the provisions of this Section are inconsistent with, or conflict with, any other provisions of the Agreement, the provisions of this Section shall prevail.

Customer Information

II. Mexico. The following provision applies to the Data for Mexico, which includes certain data from the Instituto Nacional de Estadística y Geografía (“INEGI”):

A. Any and all copies of the Data and/or packaging containing Data for Mexico shall contain the following notice: “Fuente: INEGI (Instituto Nacional de Estadística y Geografía)”

III. Latin America Territory

A. Third Party Notices. Any and all copies of the Data and/or packaging relating thereto shall include the respective Third Party Notices set forth below and used as described below corresponding to the Territory (or portion thereof) included in such copy:

Territory	Notice
Argentina	IGN “INSTITUTO GEOGRAFICO NACIONAL ARGENTINO”

Ecuador	“INSTITUTO GEOGRAFICO MILITAR DEL ECUADOR AUTORIZACION N° IGM-2011-01- PCO-01 DEL 25 DE ENERO DE 2011” “source: © IGN 2009 - BD TOPO ®”
---------	--------------------------------------------------------------------------------------------------------------------------------------------

Guadeloupe, French Guiana and Martinique and Mexico	“Fuente: INEGI (Instituto Nacional de Estadística y Geografía)”
-----------------------------------------------------	-----------------------------------------------------------------

IV. Middle East Territory

A. Third Party Notices. Any and all copies of the Data and/or packaging relating thereto shall include the respective Third Party Notices set forth below and used as described below corresponding to the Territory (or portion thereof) included in such copy:

Country	Notice
Jordan	“© Royal Jordanian Geographic Centre”. The foregoing notice requirement for Jordan Data is a material term of the Agreement. If Client or any of its permitted sublicensees (if any) fail to meet such requirement, HERE shall have the right to terminate Client’s license with respect to the Jordan Data.

B. Jordan Data. Client and its permitted sublicensees (if any) are restricted from licensing and/or otherwise distributing HERE’s database for the country of Jordan (“Jordan Data”) for use in Enterprise Applications to (i) non-Jordanian entities for use of the Jordan Data solely in Jordan or (ii) Jordan-based customers. In addition, Client, its permitted sublicensees (if any) and End-Users are restricted from using the Jordan Data in Enterprise Applications if such party is (i) a non-Jordanian entity using the Jordan Data solely in Jordan or (ii) a Jordan-based customer. For purposes

Customer Information

of the foregoing, “Enterprise Applications” shall mean Geomarketing applications, GIS applications, mobile business asset management applications, call center applications, telematics applications, public organization Internet applications or for providing geocoding services.

V. Europe Territory

A. Use of Certain Traffic Codes in Europe

1. General Restrictions Applicable to Traffic Codes. Client acknowledges and agrees that in certain countries of the Europe Territory, Client will need to obtain rights directly from third party RDS-TMC code providers to receive and use the Traffic Codes in the Data and to deliver to End-Users Transactions in any way derived from or based on such Traffic Codes. For such countries, HERE shall deliver the Data incorporating Traffic Codes to Client only after receiving certification from Client of its having obtained such rights.

2. Display of Third Party Rights Legends for Belgium. Client shall, for each Transaction that uses Traffic Codes for Belgium, provide the following notice to the End-User: “Traffic Codes for Belgium are provided by the Ministerie van de Vlaamse Gemeenschap and the Ministère de l’Équipement et des Transports.”

B. Paper Maps. With respect to any license granted to Client relating to making, selling or distributing paper maps (i.e., a map fixed on a paper or paper-like medium): (a) such license with respect to Data for the Territory of Great Britain is conditioned on Client’s entering into and complying with a separate written agreement with the Ordnance Survey (“OS”) to create and sell paper maps, Client’s paying to the OS any and all applicable paper map royalties, and Client’s complying with the OS copyright notice requirements; (b) such license for selling or otherwise distributing for charge with respect to Data for the Territory of Czech Republic is conditioned on Client’s obtaining prior written consent from

Kartografie a.s.; (c) such license for selling or distributing with respect to Data for the Territory of Switzerland is conditioned on Client’s obtaining a permit from Bundesamt für Landestopografie of Switzerland; (d) Client is restricted from using Data for the Territory of France to create paper maps with a scale between 1:5,000 and 1:250,000; and (e) Client is restricted from using any Data to create, sell or distribute paper maps that are the same or substantially similar, in terms of data content and specific use of color, symbols and scale, to paper maps published by the European national mapping agencies, including without limitation, Landervermessungämter of Germany, Topografische Dienst of the Netherlands, Nationaal Geografisch Instituut of Belgium, Bundesamt für Landestopografie of Switzerland, Bundesamt für Eich-und Vermessungswesen of Austria, and the National Land Survey of Sweden.

Customer Information

C. OS Enforcement. Without limiting Section IV(B) above, with respect to Data for the Territory of Great Britain, Client acknowledges and agrees that the Ordnance Survey (“OS”) may bring a direct action against Client to enforce compliance with the OS copyright notice (see Section IV(D) below) and paper map requirements (see Section IV(B) above) contained in this Agreement.

D. Third Party Notices. Any and all copies of the Data and/or packaging relating thereto shall include the respective Third Party Notices set forth below and used as described below corresponding to the Territory (or portion thereof) included in such copy:

Country(ies)	Notice
Austria	“© Bundesamt für Eich- und Vermessungswesen”
Croatia Cyprus, Estonia, Latvia, Lithuania,	“© EuroGeographics”

Moldova,
Poland,
Slovenia
and/or
Ukraine

France “source: © IGN 2009 – BD TOPO ®”

Germany “Die Grundlagendaten wurden mit Genehmigung der zuständigen Behörden entnommen”

Great Britain “Contains Ordnance Survey data © Crown copyright and database right 2010
Contains Royal Mail data © Royal Mail copyright and database right 2010”

Greece “Copyright Geomatics Ltd.”

Hungary “Copyright © 2003; Top-Map Ltd.”

Italy “La Banca Dati Italiana è stata prodotta usando quale riferimento anche cartografia numerica ed al tratto prodotta e fornita dalla Regione Toscana.”

Norway “Copyright © 2000; Norwegian Mapping Authority”

Portugal “Source: IgeoE – Portugal”

Spain “Información geográfica propiedad del CNIG”

Sweden “Based upon electronic data © National Land Survey Sweden.”

Switzerland “Topografische Grundlage: © Bundesamt für Landestopographie.”

E. Respective Country Distribution. Client acknowledges that HERE has not received approvals to distribute map data for the following countries in such respective countries: Albania, Belarus, Kyrgyzstan, Moldova and Uzbekistan. HERE may

Customer Information

update such list from time to time. The license rights granted to Client under this TL with respect to the Data for such countries are contingent upon Client's compliance with all applicable laws and regulations, including, without limitation, any required licenses or approvals to distribute the Application incorporating such Data in such respective countries.

VI. Australia Territory

A. Third Party Notices. Any and all copies of the Data and/or packaging relating thereto shall include the respective Third Party Notices set forth below and used as described below corresponding to the Territory (or portion thereof) included in such copy:

Copyright. Based on data provided under license from PSMA Australia Limited (www.pasma.com.au).

Product incorporates data which is © 20XX Telstra Corporation Limited, GM Holden Limited, Intelematics Australia Pty Ltd and Continental Pty Ltd.

B. Third Party Notices for Australia. In addition to the foregoing, the End-User Terms for any Application containing RDS-TMC Traffic Codes for Australia shall contain the following notice: "Product incorporates traffic location codes which is © 20XX Telstra Corporation Limited and its licensors."

AT&T Vehicle Network Carrier Telematics Disclosure

END USER FOR PURPOSES OF THIS SECTION MEANS YOU AND YOUR HEIRS, EXECUTORS, LEGAL PERSONAL REPRESENTATIVES AND PERMITTED ASSIGNS. FOR PURPOSES OF THIS SECTION "UNDERLYING WIRELESS SERVICE CARRIER" INCLUDES ITS AFFILIATES AND CONTRACTORS AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, SUCCESSORS AND ASSIGNS. END USER HAS NO CONTRACTUAL RELATIONSHIP

WITH THE UNDERLYING WIRELESS SERVICE CARRIER AND END USER IS NOT A THIRD PARTY BENEFICIARY OF ANY AGREEMENT BETWEEN FORD AND UNDERLYING CARRIER. END USER UNDERSTANDS AND AGREES THAT THE UNDERLYING CARRIER HAS NO LEGAL, EQUITABLE, OR OTHER LIABILITY OF ANY KIND TO END USER. IN ANY EVENT, REGARDLESS OF THE FORM OF THE ACTION, WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, END USER'S EXCLUSIVE REMEDY FOR CLAIMS ARISING IN ANY WAY IN CONNECTION WITH THIS AGREEMENT, FOR ANY CAUSE WHATSOEVER, INCLUDING BUT NOT LIMITED TO ANY FAILURE OR DISRUPTION OF SERVICE PROVIDED HEREUNDER, IS LIMITED TO PAYMENT OF DAMAGES IN AN AMOUNT NOT TO EXCEED THE AMOUNT PAID BY END USER FOR THE SERVICES DURING THE TWO-MONTH PERIOD PRECEDING THE DATE THE CLAIM AROSE.

Customer Information

(ii) END USER AGREES TO INDEMNIFY AND HOLD HARMLESS THE UNDERLYING WIRELESS SERVICE CARRIER AND ITS OFFICERS, EMPLOYEES, AND AGENTS AGAINST ANY AND ALL CLAIMS, INCLUDING WITHOUT LIMITATION CLAIMS FOR LIBEL, SLANDER, OR ANY PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, ARISING IN ANY WAY, DIRECTLY OR INDIRECTLY, IN CONNECTION WITH THIS AGREEMENT OR THE USE, FAILURE TO USE, OR INABILITY TO USE THE DEVICE EXCEPT WHERE THE CLAIMS RESULT FROM THE UNDERLYING CARRIER'S GROSS NEGLIGENCE OR WILLFUL MISCONDUCT. THIS INDEMNITY WILL SURVIVE THE TERMINATION OF THE AGREEMENT.

(iii) END USER HAS NO PROPERTY RIGHT IN ANY NUMBER ASSIGNED TO THE DEVICE.

(iv) END USER UNDERSTANDS THAT FORD AND THE UNDERLYING CARRIER CANNOT GUARANTY THE SECURITY OF WIRELESS TRANSMISSIONS, AND WILL NOT BE LIABLE FOR ANY LACK OF SECURITY RELATING TO THE USE OF THE SERVICES

THE SERVICE IS FOR [END USER'S] USE ONLY AND END USER MAY NOT RESELL THE SERVICE TO ANY OTHER PARTY END USER UNDERSTANDS THAT THE UNDERLYING CARRIER DOES NOT GUARANTEE ANY END USER UNINTERRUPTED SERVICE OR COVERAGE. THE UNDERLYING CARRIER DOES NOT WARRANT THAT END USERS CAN OR WILL BE LOCATED USING THE SERVICE. THE UNDERLYING CARRIER MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SUITABILITY, OR PERFORMANCE REGARDING ANY SERVICES OR GOODS, AND IN NO EVENT SHALL AT&T BE LIABLE, WHETHER OR NOT DUE TO ITS OWN NEGLIGENCE, FOR ANY: (A) ACT OR OMISSION OF A THIRD PARTY; (B) MISTAKES, OMISSIONS, INTERRUPTIONS, ERRORS, FAILURES TO TRANSMIT, DELAYS, OR DEFECTS IN THE SERVICE PROVIDED BY OR THROUGH THE UNDERLYING CARRIER; (C) DAMAGE OR INJURY CAUSED BY SUSPENSION OR TERMINATION BY THE UNDERLYING CARRIER; OR (D) DAMAGE OR INJURY CAUSED BY A FAILURE OR DELAY IN CONNECTING A CALL TO ANY ENTITY,

INCLUDING 911 OR ANY OTHER EMERGENCY SERVICE. TO THE FULL EXTENT ALLOWED BY LAW, THE END USER RELEASES, INDEMNIFIES AND HOLDS THE UNDERLYING CARRIER HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS OF ANY PERSON OR ENTITY FOR DAMAGES OF ANY NATURE ARISING IN ANY WAY FROM OR RELATING TO, DIRECTLY OR INDIRECTLY, SERVICES PROVIDED BY THE UNDERLYING CARRIER OR ANY PERSON'S USE THEREOF, INCLUDING CLAIMS ARISING IN WHOLE OR IN PART FROM THE ALLEGED NEGLIGENCE OF THE UNDERLYING CARRIER.

VII. China Territory

Personal Use Only

You agree to use this Data together with [insert name of Client Application] for the solely personal, non-commercial purposes for which you were licensed, and not for service bureau, time-sharing or other similar purposes. Accordingly, but subject to the restrictions set forth in the following paragraphs, you may copy this Data only as necessary for your personal use to (i) view

Customer Information

it, and (ii) save it, provided that you do not remove any copyright notices that appear and do not modify the Data in any way. You agree not to otherwise reproduce, copy, modify, decompile, disassemble or reverse engineer any portion of this Data, and may not transfer or distribute it in any form, for any purpose, except to the extent permitted by mandatory laws.

Restrictions

Except where you have been specifically licensed to do so by NAV2 , and without limiting the preceding paragraph, you may not (a) use this Data with any products, systems, or applications installed or otherwise connected to or in communication with vehicles, capable of vehicle navigation, positioning, dispatch, real time route guidance, fleet management or similar applications; or (b) with or in communication with any positioning devices or any mobile or wireless-connected electronic or computer

devices, including without limitation cellular phones, palmtop and handheld computers, pagers, and personal digital assistants or PDAs. You agree to cease using this Data if you fail to comply with these terms and conditions.

Limited Warranty

NAV2 warrants that (a) the Data will perform substantially in accordance with the accompanying written materials for a period of ninety (90) days from the date of receipt, and (b) any support services provided by NAV2 shall be substantially as described in applicable written materials provided to you by NAV2, and NAV2's support engineers will make commercially reasonable efforts to solve any problem issues.

Customer Remedies

NAV2 and its suppliers' entire liability and your exclusive remedy shall be, at NAV2's sole discretion, either (a) return of the price paid, if any, or (b) repair or replacement of the Data that do not meet NAV2's Limited Warranty and that are returned to NAV2 with a copy of your receipt. This Limited Warranty

is void if failure of the Data has resulted from accident, abuse, or misapplication. Any replacement Data will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer. Neither these remedies nor any product support services offered by NAV2 are available without proof of purchase from an authorized international source.

No Other Warranty:

EXCEPT FOR THE LIMITED WARRANTY SET FORTH ABOVE AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, NAV2 AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, OF QUALITY, PERFORMANCE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OWNERSHIP OR NON-INFRINGEMENT. Certain warranty exclusions may not be permitted under applicable law, so to that extent the above exclusion may not apply to you.

Customer Information

Limited Liability:

TO THE EXTENT PERMITTED BY APPLICABLE LAW, NAV2 AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) SHALL NOT BE LIABLE TO YOU: IN RESPECT OF ANY CLAIM, DEMAND OR ACTION, IRRESPECTIVE OF THE NATURE OF THE CAUSE OF THE CLAIM, DEMAND OR ACTION ALLEGING ANY LOSS, INJURY OR DAMAGES, DIRECT OR INDIRECT, WHICH MAY RESULT FROM THE USE OR POSSESSION OF THE INFORMATION; OR FOR ANY LOSS OF PROFIT, REVENUE, CONTRACTS OR SAVINGS, OR ANY OTHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF YOUR USE OF OR INABILITY TO USE THIS INFORMATION, ANY DEFECT IN THE INFORMATION, OR THE BREACH OF THESE TERMS OR CONDITIONS, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, EVEN IF NAV2 OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. UNDER

NO CIRCUMSTANCES SHALL NAV2's OR ITS SUPPLIERS' LIABILITY HEREUNDER EXCEED THE PRICE PAID. Certain liability exclusions may not be permitted under applicable law, so to that extent the above exclusion may not apply to you.

Export Control

You agree not to export to anywhere any part of the Data provided to you or any direct product thereof except in compliance with, and with all licenses and approvals required under, applicable export laws, rules and regulations.

IP Protection

The Data are owned by NAV2 or its suppliers and are protected by applicable copyright and other intellectual property law and treaties. The Data are provided solely on the basis of a license to use, not sale.

Entire Agreement

These terms and conditions constitute the entire agreement between NAV2 (and its licensors, including their licensors and suppliers) and you pertaining to the subject matter hereof, and supersedes in their entirety any and all written or oral agreements previously existing between us with respect to such subject matter.

Governing Law.

The above terms and conditions shall be governed by the laws of the People's Republic of China, without giving effect to (i) its conflict of laws provisions, or (ii) the United Nations Convention for Contracts for the International Sale of Goods, which is explicitly excluded. Any dispute arising from or in connection with the Data provided to you hereunder shall be submitted to the Shanghai International Economic and Trade Arbitration Commission for arbitration.

Gracenote® Copyright

CD and music-related data from Gracenote, Inc., copyright©

Customer Information

2000-2007 Gracenote. Gracenote Software, copyright © 2000-2007 Gracenote. This product and service may practice one or more of the following U.S. Patents 5,987,525; 6,061,680; 6,154,773; 6,161,132; 6,230,192; 6,230,207; 6,240,459; 6,330,593 and other patents issued or pending. Some services supplied under license from Open Globe, Inc. for U.S. Patent 6,304,523.

Gracenote and CDDB are registered trademarks of Gracenote. The Gracenote logo and logotype, and the "Powered by Gracenote"™ logo are trademarks of Gracenote.

Gracenote® End User License Agreement (EULA)

This device contains software from Gracenote, Inc. of 2000 Powell Street Emeryville, California 94608 ("Gracenote").

The software from Gracenote (the "Gracenote Software") enables this device to do disc and music file identification and obtain music-related information, including name, artist, track, and title information ("Gracenote Data") from online servers ("Gracenote Servers"), and to perform other

functions. You may use Gracenote Data only by means of the intended End User functions of this device. This device may contain content belonging to Gracenote's providers. If so, all of the restrictions set forth herein with respect to Gracenote Data shall also apply to such content and such content providers shall be entitled to all of the benefits and protections set forth herein that are available to Gracenote. You agree that you will use the content from Gracenote ("Gracenote Content"), Gracenote Data, the Gracenote Software, and Gracenote Servers for your own personal, non-commercial use only. You agree not to assign, copy, transfer or transmit the Gracenote Content, Gracenote Software or any Gracenote Data (except in a Tag associated with a music file) to any third party. **YOU AGREE NOT TO USE OR EXPLOIT GRACENOTE CONTENT, GRACENOTE DATA, THE GRACENOTE SOFTWARE, OR GRACENOTE SERVERS, EXCEPT AS EXPRESSLY PERMITTED HEREIN.**

You agree that your non-exclusive licenses to use the Gracenote Content, Gracenote Data, the Gracenote Software, and Gracenote Servers will terminate if you violate these restrictions. If your licenses terminate, you agree to cease any and all use of the Gracenote Content, Gracenote Data, the Gracenote Software, and Gracenote Servers.

Gracenote, respectively, reserve all rights in Gracenote Data, the Gracenote Software, and the Gracenote Servers and Gracenote Content, including all ownership rights. Under no circumstances will either Gracenote become liable for any payment to you for any information that you provide, including any copyrighted material or music file information. You agree that Gracenote may enforce its respective rights, collectively or separately, under this agreement against you, directly in each company's own name.

Customer Information

Gracenote uses a unique identifier to track queries for statistical purposes. The purpose of a randomly assigned numeric identifier is to allow Gracenote to count queries without knowing anything about who you are. For more information, see the web page at www.gracenote.com for the Gracenote Privacy Policy.

THE GRACENOTE SOFTWARE, EACH ITEM OF GRACENOTE DATA AND THE GRACENOTE CONTENT ARE LICENSED TO YOU "AS IS". NEITHER GRACENOTE MAKES ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE ACCURACY OF ANY GRACENOTE DATA FROM THE GRACENOTE SERVERS OR GRACENOTE CONTENT. GRACENOTE COLLECTIVELY AND SEPARATELY RESERVE THE RIGHT TO DELETE DATA AND/OR CONTENT FROM THE COMPANIES' RESPECTIVE SERVERS OR, IN THE CASE OF GRACENOTE, CHANGE DATA CATEGORIES FOR ANY CAUSE THAT GRACENOTE DEEMS SUFFICIENT. NO WARRANTY IS MADE THAT EITHER GRACENOTE CONTENT OR THE GRACENOTE SOFTWARE OR GRACENOTE SERVERS ARE

ERROR-FREE OR THAT THE FUNCTIONING OF THE GRACENOTE SOFTWARE OR GRACENOTE SERVERS WILL BE UNINTERRUPTED. GRACENOTE IS NOT OBLIGATED TO PROVIDE YOU WITH ANY ENHANCED OR ADDITIONAL DATA TYPES THAT GRACENOTE MAY CHOOSE TO PROVIDE IN THE FUTURE AND IS FREE TO DISCONTINUE ITS ONLINE SERVICES AT ANY TIME. GRACENOTE DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NON-INFRINGEMENT. NEITHER GRACENOTE WARRANTS THE RESULTS THAT WILL BE OBTAINED BY YOUR USE OF THE GRACENOTE SOFTWARE OR ANY GRACENOTE SERVER. IN NO CASE WILL GRACENOTE BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OR FOR ANY LOST PROFITS OR LOST REVENUES FOR ANY REASON WHATSOEVER. © Gracenote 2007.

Taiwan Territory

According to the "Technical Specifications for Low Power Radio Frequency Equipment" formulated by the National Communications and Communication Committee of the Executive Yuan: 3.8.2. For the low-power radio frequency equipment that has obtained the verification certificate, the company, firm or user shall not change the frequency, increase the power or change the characteristics and functions of the original design without authorization.

The use of low-power radio frequency equipment must not affect flight safety and interfere with legal communications: when the system detects interference, immediately stop using it until there is no interference.

The aforementioned legal communication refers to the wireless communication operated in accordance with the provisions of the Telecommunications Management Law. Low-power radio frequency equipment needs to endure the interference of legal communication or industrial, scientific and medical radio wave radiation electrical equipment.

Customer Information

SUNA TRAFFIC CHANNEL – TERMS AND CONDITIONS

By activating, using and/or accessing the SUNA Traffic Channel, SUNA Predictive or other content or material provided by Intelematics (together, **SUNA Products and/or Services**), you must accept certain terms and conditions. The following is a brief summary of the terms and conditions that apply to you. To view the full terms and conditions relevant to your use of the SUNA Products and/or Services, please consult:

Website
www.sunatrafic.com.au/termsandconditions/

1. Acceptance

By using SUNA Products and/or Services, you will be deemed to have accepted and agreed to be bound by the terms and conditions fully detailed at:

Website
www.sunatrafic.com.au/termsandconditions/

2. Intellectual Property

SUNA Products and/or Services are for your personal use. You may not record, or retransmit the content, nor use the content in association with any other traffic information or route guidance service or device not approved by Intelematics. You obtain no right of ownership in any Intellectual Property Rights (including copyright) in the data that is used to provide SUNA Products and/or Services.

3. Appropriate Use

SUNA Products and/or Services are intended as an aid to personal motoring and travel planning, and do not provide comprehensive or accurate information on all occasions. On occasions, you may experience additional delay as a result of using SUNA Products and/or Services. You acknowledge that it is not intended, or suitable, for use in applications where time of arrival or driving directions may impact the safety of the public or yourself.

4. Use of SUNA Products and Services while driving

You, and other authorized drivers of the vehicle in which SUNA Products and/or Services are available or installed and active, remain at all times responsible for observing all relevant laws and codes of safe driving. In particular, you agree to only actively operate SUNA Products and/or Services when the Vehicle is at a complete stop and it is safe to do so.

5. Service Continuity and Reception of the SUNA Traffic Channel

Customer Information

We will use reasonable endeavors to provide the SUNA Traffic Channel 24 hours a day, 365 days a year. The SUNA Traffic Channel may occasionally be unavailable for technical reasons or for planned maintenance. We will try to perform maintenance at times when congestion is light. We reserve the right to withdraw SUNA Products and/or Services at any time.

Also, we cannot assure the uninterrupted reception of the SUNA Traffic Channel RDS-TMC signal at any particular location.

6. Limitation of Liability

Neither Intelematics (nor its suppliers or the manufacturer of your device (the “Suppliers”)) shall be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise arising out of the use of or inability to use SUNA Products and/or Services even if Intelematics or a Supplier has been advised of the possibility of such damages. You also acknowledge that neither Intelematics nor any Supplier guarantees nor make any warranties that relate to the availability, accuracy or completeness of SUNA Products

and/or Services, and to the extent which it is lawful to do so, both Intelematics and each Supplier excludes any warranties which might otherwise be implied by any State or Federal legislation in relation to SUNA Products and/or Services.

7. Please Note

Great care has been taken in preparing this manual. Constant product development may mean that some information is not entirely up-to-date. The information in this document is subject to change without notice.

EMISSION LAW



WARNING: Do not remove or alter the original equipment floor covering or insulation between it and the metal floor of the vehicle. The floor covering and insulation protect occupants of the vehicle from the engine and exhaust system heat

and noise. On vehicles with no original equipment floor covering insulation, do not carry passengers in a manner that permits prolonged skin contact with the metal floor. Failure to follow these instructions may result in fire or personal injury.

U.S. federal laws and certain state laws prohibit removing or rendering inoperative emission control system components. Similar federal or provincial laws may apply in Canada. We do not approve of any vehicle modification without first determining applicable laws.



Tampering with emissions control systems including related sensors or the Diesel Exhaust Fluid system can result in reduced engine power and the illumination of the service engine soon light.

Customer Information

Tampering With a Noise Control System

Federal laws prohibit the following acts:

- Removal or rendering inoperative by any person other than for purposes of maintenance.
- Repair or replacement of any device or element of the design incorporated into a new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use.
- The use of the vehicle after any person removes or renders inoperative any device or element of the design.

The U.S. Environmental Protection Agency may presume to constitute tampering as follows:

- Removal of hood blanket, fender apron absorbers, fender apron barriers, underbody noise shields or acoustically absorptive material.
- Tampering or rendering inoperative the engine speed governor, to allow engine speed to exceed manufacturer specifications.

If the engine does not start, runs rough, experiences a decrease in engine performance, experiences excess fuel consumption or produces excessive exhaust smoke, check for the following:

- A plugged or disconnected air inlet system hose.
- A plugged engine air filter element.
- Water in the fuel filter and water separator.
- A clogged fuel filter.
- Contaminated fuel.
- Air in the fuel system, due to loose connections.
- An open or pinched sensor hose.
- Incorrect engine oil level.
- Incorrect fuel for climatic conditions.
- Incorrect engine oil viscosity for climactic conditions.

Note: *Some vehicles have a lifetime fuel filter that is integrated with the fuel tank. Regular maintenance or replacement is not needed.*

Note: *If these checks do not help you correct the concern, have your vehicle checked as soon as possible.*

Noise Emissions Warranty, Prohibited Tampering Acts and Maintenance

On January 1, 1978, Federal regulation became effective governing the noise emission on trucks over 10,000 lb (4,536 kg) Gross Vehicle Weight Rating (GVWR). The preceding statements concerning prohibited tampering acts and maintenance, and the noise warranty found in the Warranty Guide, are applicable to complete chassis cabs over 10,000 lb (4,536 kg) GVWR.

EXPORT UNIQUE OPTIONS

For your particular global region, your vehicle may be equipped with features and options that are different from the features and options that are described in this Owner's Manual. A market unique supplement may be supplied that complements this book. By referring to the market unique supplement, if provided, you can properly identify those features, recommendations and

Customer Information

specifications that are unique to your vehicle. This Owner's Manual is written primarily for the U.S. and Canadian markets. Features or equipment listed as standard may be different on units built for export. **Refer to this Owner's Manual for all other required information and warnings.**

WARRANTY INFORMATION

The following warranties may apply to your vehicle:

- New vehicle limited warranties.
- Emissions warranties, if applicable. (Note: Fully-electric vehicles are not eligible for emissions warranties.)
- Other warranties, if applicable.

Detailed warranty information specific to your vehicle can be found in the Warranty Guide at www.owner.lincoln.com.

The following California Warranty Statement, required by California regulations, applies to vehicles certified to California emissions standards and registered in a state that requires California emissions warranty. If applicable, additional California Emissions Warranties can be found in the Warranty Guide at www.owner.lincoln.com.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Ford Motor Company are pleased to explain the emission control system warranty on your (year) vehicle. In California, new motor vehicles must be designated, built and equipped to meet the State's stringent anti-smog standards. Ford Motor Company must warrant the emission control system on your vehicle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your vehicle.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter and engine computer. Also included may be hoses, belts, connectors and other emission-related assemblies. Where a warrantable condition exists, Ford Motor Company will repair your vehicle at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

(For 1990 and subsequent model passenger cars, light-duty trucks, and medium-duty vehicles.)

- For 3 years or 50,000 miles (whichever occurs first);

1) If your vehicle fails a Smog Check inspection, all necessary repairs and adjustments will be made by Ford Motor Company to ensure that your emission control system **PERFORMANCE WARRANTY**.

Customer Information

2) If any emission-related part on your vehicle is defective, the part will be repaired or replaced by Ford Motor Company. This is your short-term emission control system DEFECTS WARRANTY.

- For 7 years or 70,000 miles (whichever occurs first);

1) If an emission-related part listed in this warranty booklet specially noted with coverage for 7 years or 70,000 miles is defective, the part will be repaired or replaced by Ford Motor Company. This is your long-term emission control system DEFECTS WARRANTY.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the vehicle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Ford Motor Company recommends that you retain all receipts covering maintenance on your vehicle, but Ford Motor Company cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

- You are responsible for presenting your vehicle to a Ford or Lincoln dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

- As the vehicle owner, you should also be aware that Ford Motor Company may deny you warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact Lincoln Concierge at 1-800-521-4140 or the California Air Resource Board at 9528 Telstar Avenue, El Monte, CA 91731.

Appendices

ELECTROMAGNETIC COMPATIBILITY



WARNING: Do not place objects or mount equipment on or near the airbag cover, on the side of the front or rear seatbacks, or in areas that may come into contact with a deploying airbag. Failure to follow these instructions may increase the risk of personal injury in the event of a crash.



WARNING: Do not fasten antenna cables to vehicle wiring, fuel pipes and brake pipes.



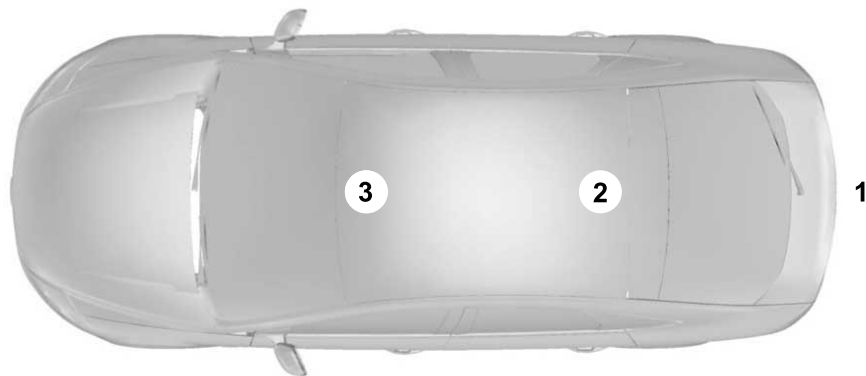
WARNING: Keep antenna and power cables at least 4 in (10 cm) from any electronic modules and airbags.

Note: We test and certify your vehicle to meet electromagnetic compatibility legislation. It is your responsibility to make sure that any equipment an authorized dealer installs on your vehicle complies with applicable local legislation and other requirements. Installation of some aftermarket electronic devices could degrade the performance of vehicle functions, which use radio frequency signals such as broadcast radio receiver, tire pressure monitoring system, push button start, **Bluetooth®** connectivity or satellite navigation.

Note: Any radio frequency transmitter equipment in your vehicle (such as cellular telephones and amateur radio transmitters) must keep to the parameters in the following illustrations and table. We do not provide any other special provisions or conditions for installations or use.

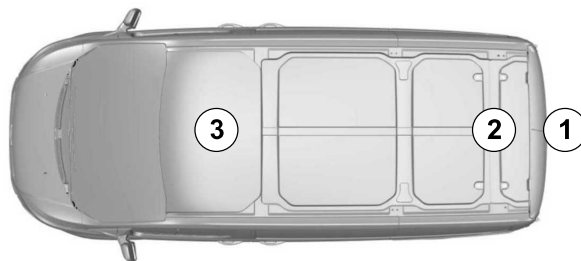
Appendices

Car/SUV



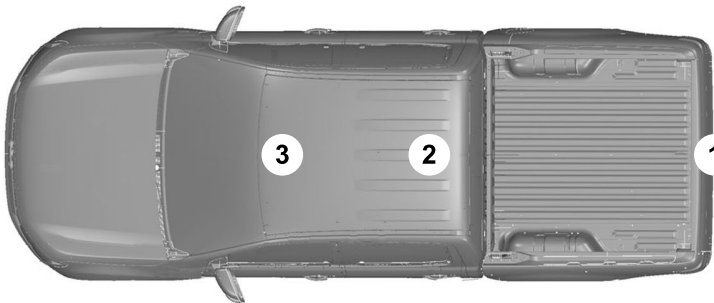
Appendices

Van



Appendices

Truck



Frequency Band MHz	Maximum Output Power Watt (Peak RMS)	Antenna Positions
1-30	50	1
50-54	50	2, 3
68-87	50	2, 3

Appendices

Frequency Band MHz	Maximum Output Power Watt (Peak RMS)	Antenna Positions
142-176	50	2, 3
380-512	50	2, 3
806-870	10	2, 3

Index

1

12V Battery.....	442
12V Battery Precautions.....	442
Battery Management System	
Limitations.....	443
Changing the 12V Battery.....	444
Charging the 12V Battery.....	446
How Does the Battery Management System	
Work.....	443
Recycling and Disposing of the 12V	
Battery.....	446
Resetting the Battery Sensor.....	446
What Is the Battery Management	
System.....	443
12V Battery – Troubleshooting.....	446
12V Battery – Information Messages.....	447
12V Battery – Warning Lamps.....	446

3

360 Degree Camera.....	302
360 Degree Camera Settings.....	304
360 Degree Camera Guide Lines.....	303
360 Degree Camera Limitations.....	303
360 Degree Camera Precautions.....	302

360 Degree Camera Settings.....	304
Switching the 360 Degree Camera On and	
Off.....	304
Switching the 360 Degree Camera	
View.....	304

9

911 Assist.....	76
-----------------	----

A

A/C	
See: Climate Control.....	168
About This Publication.....	21
ABS	
See: Brakes.....	268
Accessing Apps.....	545
Accessing Navigation.....	551
Accessing the Passive Key Backup	
Position.....	210
Accessing the Trip Computer.....	159
Accessories.....	558
AC Charging.....	248
Connecting the Charger.....	248
Stopping Charging.....	249
ActiveGlide™.....	328
ActiveGlide™ – Troubleshooting.....	335

In-Lane Repositioning.....	334
Lane Change Assist.....	333
Lane Change Assist - Troubleshooting.....	334
ActiveGlide™ Alerts.....	331
ActiveGlide™ Automatic Cancellation.....	331
ActiveGlide™ Indicators.....	332
ActiveGlide™ Limitations.....	330
ActiveGlide™ Precautions.....	328
ActiveGlide™ Requirements.....	329
ActiveGlide™ Settings.....	330
ActiveGlide™ – Troubleshooting.....	335
ActiveGlide™ – Information Messages.....	335
ActiveGlide™ Videos.....	337
Active Park Assist.....	305
Active Park Assist – Troubleshooting.....	307
Active Park Assist Precautions.....	305
Active Park Assist –	
Troubleshooting.....	307
Active Park Assist – Frequently Asked	
Questions.....	307
Active Park Assist – Information	
Messages.....	307
Adaptive Cruise Control.....	310
Adaptive Cruise Control –	
Troubleshooting.....	325
Lane Centering.....	319
Predictive Speed Assist.....	322

Index

Predictive Speed Assist – Troubleshooting.....	325	Adjusting the Seatbelt Height.....	60	Alert Mode.....	344
Adaptive Cruise Control Automatic Cancellation.....	314	Adjusting the Seatbelts During Pregnancy.....	59	How Does Alert Mode Work.....	344
Adaptive Cruise Control Indicators.....	318	Adjusting the Sound Settings.....	522	What Is Alert Mode.....	344
Adaptive Cruise Control Limitations.....	311	Adjusting the Steering Wheel - Vehicles With: Manual Adjustable Steering Column.....	111	Alexa Built-In.....	536
Adaptive Cruise Control Precautions.....	310	Adjusting the Steering Wheel - Vehicles With: Power Adjustable Steering Column.....	111	Alexa Built-In Requirements.....	536
Adaptive Cruise Control – Troubleshooting.....	325	Adjusting the Volume.....	521	Alexa Built-In Settings.....	536
Adaptive Cruise Control – Information Messages.....	325	Aid Mode.....	344	All-Wheel Drive.....	266
Adaptive Cruise Control Videos.....	327	How Does Aid Mode Work.....	345	All-Wheel Drive – Troubleshooting.....	267
Adaptive Front Lighting.....	125	What Is Aid Mode.....	344	All-Wheel Drive Limitations.....	266
How Does Adaptive Front Lighting Work.....	125	Airbag Precautions.....	68	All-Wheel Drive Precautions.....	266
Switching Adaptive Front Lighting On and Off.....	127	Airbags.....	65	All-Wheel Drive – Troubleshooting.....	267
Adaptive Front Lighting – Troubleshooting.....	127	Front Passenger Sensing System.....	69	All-Wheel Drive – Information Messages.....	267
Adaptive Front Lighting – Information Messages.....	127	Air Conditioning See: Climate Control.....	168	AM/FM Radio.....	523
Adjusting the Exterior Mirrors.....	134	Air Conditioning System Capacity and Specification - 2.0L EcoBoost™.....	507	AM/FM Radio Limitations.....	523
Adjusting the Headlamps.....	448	Air Conditioning System Capacity and Specification - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV).....	509	Selecting a Radio Station.....	523
Adjusting the Instrument Panel Lighting Brightness.....	129	Alert and Aid Mode.....	345	Ambient Lighting.....	129
Adjusting the Map.....	551	How Does Alert and Aid Mode Work.....	345	Adjusting Ambient Lighting.....	129
Changing the Format of the Map.....	551	What Is Alert and Aid Mode.....	345	Switching Ambient Lighting On and Off.....	129
Zooming the Map In and Out.....	551			Anti-Lock Braking System.....	268
				Anti-Lock Braking System Indicators.....	268
				Anti-Lock Braking System Limitations.....	268
				Anti-Theft Alarm System.....	107
				Arming the Anti-Theft Alarm System.....	108
				Disarming the Anti-Theft Alarm System.....	108
				How Does the Anti-Theft Alarm System Work.....	107
				What Are the Inclination Sensors.....	108

Index

What Are the Interior Sensors.....	108	Automatically Refreshing the Interior Air.....	176	Automatic Emergency Braking.....	368
What Is the Anti-Theft Alarm System.....	107	Checking the Interior Air Quality.....	174	Switching Automatic Emergency Braking On and Off.....	368
What Is the Battery Backup Alarm.....	108	How Does Auto Air Refresh Work.....	174	What Is Automatic Emergency Braking.....	368
What Is the Perimeter Alarm.....	108	Manually Refreshing the Interior Air.....	176	Automatic Engine Stop.....	209
Anti-Theft Alarm System Settings.....	108	What Is Auto Air Refresh.....	174	How Does Automatic Engine Stop Work.....	209
Setting the Alarm Security Level.....	109	Auto-Dimming Exterior Mirror.....	135	Overriding Automatic Engine Stop.....	209
Switching Ask on Exit On and Off.....	109	What Is the Auto-Dimming Exterior Mirror.....	135	Switching Automatic Engine Stop On and Off.....	209
What are the Alarm Security Levels.....	108	Auto-Dimming Interior Mirror.....	133	What Is Automatic Engine Stop.....	209
What Is Ask on Exit.....	109	Auto-Dimming Interior Mirror Limitations.....	133	Automatic High Beam Control.....	121
Appendices.....	655	What Is the Auto-Dimming Interior Mirror.....	133	Automatic High Beam Control Indicators.....	123
Applying the Electric Parking Brake.....	272	Auto Hold.....	284	Automatic High Beam Control Limitations.....	123
Applying the Electric Parking Brake in an Emergency.....	272	Auto Hold Indicators.....	285	Automatic High Beam Control Precautions.....	122
App Precautions.....	545	Auto Hold Videos.....	285	Automatic High Beam Control Requirements.....	122
App Requirements.....	545	Autolamps.....	119	How Does Automatic High Beam Control Work.....	121
Apps.....	545	Autolamp Settings.....	119	Overriding Automatic High Beam Control.....	123
Audio System.....	521	What Are Autolamps.....	119	Switching Automatic High Beam Control On and Off.....	123
AM/FM Radio.....	523	Autolock.....	89		
Audio System – Troubleshooting.....	528	Autolock Requirements.....	89		
Digital Radio.....	524	What Is Autolock.....	89		
Satellite Radio.....	525	Automatically Releasing the Electric Parking Brake.....	273		
Audio System Precautions.....	521	Automatic Crash Shutoff.....	406		
Audio System – Troubleshooting.....	528	Automatic Crash Shutoff Precautions.....	406		
Audio System – Information Messages.....	528	Re-Enabling Your Vehicle.....	406		
Audio System Videos.....	531	What Is Automatic Crash Shutoff.....	406		
Auto Air Refresh.....	174				
Auto Air Refresh Hints.....	177				
Auto Air Refresh Indicators.....	176				

Index

Automatic High Beam Control – Troubleshooting.....	124
Automatic High Beam Control – Information Messages.....	124
Automatic Locking Mode.....	58
Disengaging Automatic Locking Mode.....	59
Engaging Automatic Locking Mode.....	58
What Is Automatic Locking Mode.....	58
Automatic Return to Park (P).....	261
Automatic Return to Park (P) Limitations.....	261
How Does Automatic Return to Park (P) Work.....	261
What Is Automatic Return to Park (P).....	261
Automatic Transmission Audible Warnings.....	264
Automatic Transmission.....	258
Automatic Return to Park (P).....	261
Automatic Transmission Positions.....	258
Automatic Transmission – Troubleshooting.....	265
Automatic Transmission – Information Messages.....	265
Grade Assist - Plug-In Hybrid Electric Vehicle (PHEV).....	261
Manually Shifting Gears.....	259
Manual Park Release - Gasoline.....	262
Temporary Neutral Mode.....	260
Automatic Transmission Position Indicators.....	259

Automatic Transmission Positions.....	258
Drive (D).....	259
Neutral (N).....	259
Park (P).....	258
Reverse (R).....	258
Automatic Transmission Precautions.....	258
Automatic Transmission – Troubleshooting.....	265
Automatic Transmission – Information Messages.....	265
Auto Mode.....	170
Auto Mode Indicators.....	171
Switching Auto Mode On and Off.....	170
Switching Dual Mode On and Off.....	172
Auto-Start-Stop.....	220
Auto-Start-Stop – Troubleshooting.....	221
Auto-Start-Stop Indicators.....	220
Auto-Start-Stop Precautions.....	220
Auto-Start-Stop – Troubleshooting.....	221
Auto-Start-Stop – Frequently Asked Questions.....	222
Auto-Start-Stop – Information Messages.....	221
Autounlock.....	88
Autounlock Requirements.....	89
Switching Autounlock On and Off.....	89
What Is Autounlock.....	88

Autowipers.....	113
Adjusting the Sensitivity of the Rain Sensor.....	114
Autowipers Settings.....	113
What Are Autowipers.....	113
AWD See: All-Wheel Drive.....	266

B

Blind Spot Assist.....	347
Blind Spot Assist Indicators.....	348
Blind Spot Assist Limitations.....	347
How Does Blind Spot Assist Work.....	347
What Is Blind Spot Assist.....	347
Blind Spot Information System.....	353
Blind Spot Information System – Troubleshooting.....	356
Blind Spot Information System Indicators.....	355
Blind Spot Information System Limitations.....	353
Blind Spot Information System Precautions.....	353
Blind Spot Information System Requirements.....	354

Index

Blind Spot Information System – Troubleshooting.....	356
Blind Spot Information System – Information Messages.....	356
Bluetooth®.....	544
Body Control Module Fuse Box.....	421
Accessing the Body Control Module Fuse Box.....	421
Identifying the Fuses in the Body Control Module Fuse Box.....	422
Locating the Body Control Module Fuse Box.....	421
Bonnet Lock	
See: Opening and Closing the Hood.....	426
Booster Seats.....	52
Brake Coach.....	157
Brake Fluid Specification.....	270
Brake Over Accelerator.....	268
Brake Precautions.....	268
Brakes.....	268
Anti-Lock Braking System.....	268
Brakes – Troubleshooting.....	270
Brakes – Troubleshooting.....	270
Brakes – Frequently Asked Questions.....	270
Brakes – Information Messages.....	270
Brakes – Warning Lamps.....	270
Breaking-In.....	394

C

Calculating Payload.....	380
Calculating the Load Limit.....	380
Canceling the Set Speed.....	317
Capacities and Specifications.....	495
Catalytic Converter.....	233
Catalytic Converter – Troubleshooting.....	234
Catalytic Converter Precautions.....	233
Catalytic Converter – Troubleshooting.....	234
Catalytic Converter – Warning Lamps.....	234
Center Console.....	204
Opening the Center Console.....	204
Center Display Limitations.....	532
Center Display Overview.....	532
Center Display Overview Videos.....	533
Center Display Precautions.....	532
Changing a Flat Tire.....	487
Changing a Road Wheel.....	487
Changing the Fuel Filter.....	441
Changing the Language.....	158
Changing the Measurement Unit.....	158
Changing the Remote Control Battery.....	79
Changing the Temperature Unit.....	158
Changing the Tire Pressure Unit.....	158

Changing the Vehicle Wi-Fi Hotspot Name or Password.....	519
Charge Port Indicators.....	247
Charging a Device.....	199
Charging a Wireless Device.....	202
Charging Equipment.....	236
Charging Your Vehicle.....	236
AC Charging.....	248
Charging Your Vehicle – Troubleshooting.....	256
Charging Your Vehicle Precautions.....	236
Charging Your Vehicle – Troubleshooting.....	256
Charging Your Vehicle – Frequently Asked Questions.....	257
Charging Your Vehicle – Information Messages.....	256
Charging Your Vehicle Videos.....	257
Checking the Brake Fluid.....	269
Checking the Seatbelts.....	62
Checking the Tire Pressures.....	471
Checking the Wiper Blades.....	115
Children and Airbags.....	69
Child Restraint Anchor Points.....	43
Locating the Child Restraint Lower Anchor Points.....	44
Locating the Child Restraint Top Tether Anchor Points.....	44

Index

What Are the Child Restraint Anchor Points.....	43	Cleaning Moonroof Tracks.....	456	Connected Vehicle – Troubleshooting.....	515
Child Restraints.....	44	Cleaning Plastic.....	454	Connected Vehicle – Frequently Asked Questions.....	515
Child Restraint Position Information.....	44	Cleaning Seatbelts.....	456	Connected Vehicle Videos.....	518
Child Restraints Recommendation.....	46	Cleaning the Instrument Panel.....	454	Connecting a Bluetooth® Device.....	544
Child Safety.....	42	Cleaning Vinyl.....	455	Connecting a Trailer.....	386
Child Restraint Anchor Points.....	43	Climate Control.....	168	Connecting a Trailer Precautions.....	386
Child Restraints.....	44	Auto Mode.....	170	Connecting the Vehicle to a Mobile Network.....	514
Installing Child Restraints.....	47	Climate Control Hints.....	172	Connecting Lincoln Way to the Modem.....	514
Child Safety Locks.....	55	Closing the Liftgate.....	102	Enabling and Disabling the Modem.....	514
Child Safety Precautions.....	42	Closing the Hands-Free Liftgate.....	103	What Is the Modem.....	514
Cleaning Products.....	451	Closing the Liftgate From Inside Your Vehicle.....	102	Connecting the Vehicle to a Wi-Fi Network.....	514
Cleaning the Exterior.....	452	Closing the Liftgate From Outside Your Vehicle.....	102	Connecting Your Phone.....	538
Cleaning Camera Lenses and Sensors.....	454	Closing the Liftgate Using the Remote Control.....	103	Contacting Us.....	19
Cleaning Chrome, Aluminium or Stainless Steel.....	453	Cold Weather Precautions.....	394	Coolant.....	437
Cleaning Headlamps and Rear Lamps.....	452	Configuring the Trip Computer.....	159	Adding Coolant.....	438
Cleaning Stripes or Graphics.....	453	Connected Navigation.....	551	Changing the Coolant.....	439
Cleaning the Engine Compartment.....	453	Connected Vehicle.....	514	Checking the Coolant Level.....	437
Cleaning the Exterior Precautions.....	452	Connected Vehicle – Troubleshooting.....	515	Coolant – Information Messages.....	441
Cleaning the Underbody.....	454	Connecting the Vehicle to a Mobile Network.....	514	Coolant – Warning Lamps.....	440
Cleaning Wheels.....	453	Connected Vehicle Data.....	29	Managing the Coolant Temperature.....	439
Cleaning Windows and Wiper Blades.....	452	Connected Vehicle Limitations.....	514	Cooling System Capacity and Specification - 2.0L EcoBoost™.....	503
Cleaning the Interior.....	454	Connected Vehicle Requirements.....	514		
Cleaning Carpets and Floor Mats.....	456				
Cleaning Displays and Screens.....	454				
Cleaning Fabric.....	455				
Cleaning Leather.....	455				

Index

Cooling System Capacity and Specification - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV).....	504
Crash and Breakdown Information.....	399
Automatic Crash Shutoff.....	406
Fail-Safe Cooling.....	407
Jump Starting the Vehicle.....	402
Post-Crash Alert System.....	405
Post Impact Braking.....	405
Crash Sensors and Airbag Indicator.....	73
Creating a Personal Profile.....	549
Creating a Vehicle Wi-Fi Hotspot.....	519
Cross Traffic Alert.....	357
Cross Traffic Alert – Troubleshooting.....	360
Cross Traffic Alert Indicators.....	359
Cross Traffic Alert Limitations.....	358
Cross Traffic Alert Precautions.....	357
Cross Traffic Alert – Troubleshooting.....	360
Cross Traffic Alert – Information Messages.....	360
Cross Traffic Braking.....	279
Cross Traffic Braking – Troubleshooting.....	281
Cross Traffic Braking Indicators.....	280
Cross Traffic Braking Precautions.....	279

Cross Traffic Braking – Troubleshooting.....	281
Cross Traffic Braking – Frequently Asked Questions.....	282
Cross Traffic Braking – Information Messages.....	281
Customer Information.....	576
Radio Frequency Certification Labels.....	580
Customizing the Instrument Cluster Display.....	153

D

Data Privacy.....	26
Department of Transportation Uniform Tire Quality Grades.....	460
Digital Radio.....	524
Digital Radio Indicators.....	525
Digital Radio Limitations.....	525
How Does Digital Radio Work.....	524
Switching Digital Radio Reception On and Off.....	525
What Is Digital Radio.....	524
Directing the Flow of Air.....	170
Disposing of Airbags.....	74
Distance Alert.....	368
Adjusting the Sensitivity of Distance Alert.....	368

What Is Distance Alert.....	368
Distance Indication.....	365
Distance Indication Indicator.....	367
Switching Distance Indication On and Off.....	367
What Is Distance Indication.....	365
Door Lock Indicators.....	89
Door Lock Switch Inhibitor.....	88
How Does the Door Lock Switch Inhibitor Work.....	88
Doors and Locks Audible Warnings.....	90
Doors and Locks.....	87
Autolock.....	89
Autounlock.....	88
Door Lock Switch Inhibitor.....	88
Doors and Locks – Troubleshooting.....	90
Mislock.....	89
Operating the Doors From Inside Your Vehicle.....	88
Operating the Doors From Outside Your Vehicle.....	87
Doors and Locks – Troubleshooting.....	90
Doors and Locks – Frequently Asked Questions.....	91
Doors and Locks – Information Messages.....	90
Doors and Locks – Warning Lamps.....	90

Index

Drive Belt Routing Overview - 2.0L EcoBoost™	442
Drive Mode Control.....	338
Drive Modes.....	338
Drive Mode Control Videos.....	340
Drive Modes.....	338
Conserve.....	338
Excite.....	339
Normal.....	339
Preserve EV.....	339
Pure EV.....	339
Slippery.....	339
Driver Alert.....	372
Driver Alert – Troubleshooting.....	373
Driver Alert Limitations.....	373
Driver Alert Precautions.....	372
Driver Alert – Troubleshooting.....	373
Driver Alert – Information Messages.....	373
Driving Economically.....	394
Driving Hints.....	394
Driving in Special Conditions.....	395
Driving in Special Conditions.....	395
Driving In Sand.....	396
Driving on Hilly or Sloping Terrain.....	395
Driving Through Mud and Water.....	395
Driving on Snow and Ice.....	394
Driving Through Shallow Water.....	396

E

Easy Entry and Exit.....	98
Eco Coach.....	341
Electric Economy.....	156
Electric Parking Brake Audible Warning.....	273
Electric Parking Brake.....	272
Electric Parking Brake – Troubleshooting.....	273
Electric Parking Brake – Troubleshooting.....	273
Electric Parking Brake – Information Messages.....	274
Electric Parking Brake – Warning Lamps.....	273
Electric Power Steering.....	291
Electric Power Steering Precautions.....	291
How Does Electric Power Steering Work.....	291
Electromagnetic Compatibility.....	655
Emergency Call Limitations.....	77
Emergency Call Requirements.....	76
Emergency Call System Data.....	30
Emergency Towing - Gasoline.....	411
Emergency Towing - Plug-In Hybrid Electric Vehicle (PHEV).....	410
Emission Law.....	651

Enabling Apps on an Android Device.....	545
Enabling Apps on an iOS Device.....	545
Enabling or Disabling Personal Profiles.....	548
Enabling Remote Start.....	165
End User License Agreement.....	621
Engine Air Filter.....	434
Changing the Engine Air Filter.....	434
Engine Block Heater.....	207
Engine Block Heater Precautions.....	207
How Does the Engine Block Heater Work.....	208
Using the Engine Block Heater.....	208
Engine Coolant Temperature Gauge.....	140
Engine Oil Capacity and Specification - 2.0L EcoBoost™.....	499
Engine Oil Capacity and Specification - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV).....	501
Engine Oil.....	432
Adding Engine Oil.....	432
Checking the Engine Oil Level.....	432
Engine Oil Capacity and Specification.....	434
Engine Oil Dipstick Overview.....	432
Intelligent Oil Life Monitor.....	433
Resetting the Intelligent Oil Life Monitor.....	433

Index

Engine Specifications - 2.0L		
EcoBoost™	495	
Engine Specifications - 2.5L, Plug-In Hybrid		
Electric Vehicle (PHEV)	496	
Entering a Parallel Parking Space	306	
Entering a Perpendicular Parking		
Space	306	
Environment	31	
Evasive Steering Assist	368	
Evasive Steering Assist Limitations	369	
Switching Evasive Steering Assist On and		
Off	369	
What Is Evasive Steering Assist	368	
EV Coach	156	
Event Data	28	
Exiting a Parking Space	307	
Export Unique Options	652	
Extending the Remote Start		
Duration	166	
Exterior Bulbs	450	
Exterior Bulb Specification Chart	450	
Exterior Lamps	120	
Exterior Lamp Indicators	121	
Exterior Lamps On Audible Warning	121	
Switching the Daytime Running Lamps On		
and Off	120	
Switching Welcome Lighting On and Off	121	
Using the Turn Signal Lamps	120	
Exterior Lighting Control	118	
Exterior Lighting	118	
Adaptive Front Lighting	125	
Adaptive Front Lighting –		
Troubleshooting	127	
Autolamps	119	
Automatic High Beam Control	121	
Automatic High Beam Control –		
Troubleshooting	124	
Exterior Lamps	120	
Headlamps	118	
Headlamps – Troubleshooting	119	
Exterior Mirrors	134	
Auto-Dimming Exterior Mirror	135	
F		
Fail-Safe Cooling	407	
Driving When Fail-Safe Mode Is		
Activated	407	
Fail-Safe Cooling Indicators	408	
How Does Fail-Safe Cooling Work	407	
What Is Fail-Safe Cooling	407	
Fastening the Seatbelts	57	
Federal Highway Administration		
Regulation	621	
Flat Tire		
See: Changing a Flat Tire	487	
Floor Mats	397	
Folding the Exterior Mirrors	134	
Ford Power-Up		
See: Software Update Settings	554	
See: Vehicle Software Updates	554	
Front Exterior	38	
Front Parking Aid	295	
Front Parking Aid Audible Warnings	296	
Front Parking Aid Limitations	295	
Locating the Front Parking Aid Sensors	295	
What is the Front Parking Aid	295	
Front Passenger Sensing System	69	
Front Passenger Sensing System		
Indicators	72	
Front Passenger Sensing System		
Precautions	72	
How Does the Front Passenger Sensing		
System Work	69	
What Is the Front Passenger Sensing		
System	69	
Front Seat Precautions	178	
Front Seats	178	
Heated Seats	183	
Massage Seats	182	
Power Seats	179	
Ventilated Seats	184	
Fuel and Refueling	223	
Fuel and Refueling – Troubleshooting	231	

Index

Fuel Quality.....	224
Refueling.....	226
Running Out of Fuel.....	225
Fuel and Refueling Precautions.....	223
Fuel and Refueling – Troubleshooting.....	231
Fuel and Refueling – Information Messages.....	231
Fuel and Refueling – Warning Lamps.....	231
Fuel Economy Display.....	156
Fuel Gauge.....	139
Fuel Gauge Limitations.....	139
Locating the Fuel Filler Door.....	139
What Is Distance to Empty.....	140
What Is the Fuel Gauge.....	139
What Is the Low Fuel Reminder.....	139
Fuel Quality.....	224
Selecting the Correct Fuel.....	224
Fuel Tank Capacity - Excluding: Plug-In Hybrid Electric Vehicle (PHEV).....	505
Fuel Tank Capacity.....	230
Fuel Tank Capacity - Plug-In Hybrid Electric Vehicle (PHEV).....	506
Fuse Precautions.....	412
Fuses.....	412
Body Control Module Fuse Box.....	421
Fuses – Troubleshooting.....	425
Under Hood Fuse Box.....	412

Fuses – Troubleshooting.....	425
Fuses – Frequently Asked Questions.....	425

G

Garage Door Opener Additional Assistance.....	198
Garage Door Opener.....	194
Garage Door Opener Introduction.....	194
Garage Door Opener Precautions and Frequencies.....	194
General Maintenance Information.....	563
Global Opening and Closing.....	130
Switching Global Closing On and Off.....	131
Switching Global Opening On and Off.....	131
Using Global Closing.....	131
Using Global Opening.....	131
What Is Global Opening and Closing.....	130
Glossary of Tire Terminology.....	466
Glove Compartment.....	204
Opening the Glove Compartment.....	204
Grade Assist - Plug-In Hybrid Electric Vehicle (PHEV).....	261
What Is Grade Assist.....	261

H

Headlamp Adjusting See: Adjusting the Headlamps.....	448
Headlamps.....	118
Headlamp Indicators.....	118
Switching Headlamp Exit Delay On and Off.....	118
Using the High Beam Headlamps.....	118
Headlamps – Troubleshooting.....	119
Headlamps – Frequently Asked Questions.....	119
Head Up Display.....	160
Head Up Display – Troubleshooting.....	164
Head Up Display Indicators.....	162
Head Up Display Settings.....	160
Head Up Display – Troubleshooting.....	164
Head Up Display – Information Messages.....	164
Heated Seats.....	183
Heated Seat Precautions.....	183
Switching the Heated Seats On and Off.....	183
Heating See: Climate Control.....	168
High Voltage Battery.....	235
High Voltage Battery Precautions.....	235

Index

High Voltage Battery Vehicle Precautions - Plug-In Hybrid Electric Vehicle (PHEV).....	400	How Does Easy Entry and Exit Work.....	98	How Do the Knee Airbags Work.....	66
Hill Start Assist.....	283	How Does Eco Coach Work.....	341	How Do the Side Airbags Work.....	65
Hill Start Assist – Troubleshooting.....	283	How Does Hill Start Assist Work.....	283	Hybrid Electric Vehicle Driving Characteristics.....	213
Hill Start Assist Precautions.....	283	How Does Instantaneous Efficiency Level Work.....	341	Hybrid Electric Vehicle Indicators.....	213
Hill Start Assist – Troubleshooting.....	283	How Does Pre-Collision Assist Work.....	361	Hybrid Electric Vehicle Information.....	213
Hill Start Assist – Information Messages.....	283	How Does Reverse Braking Assist Work.....	275	Hybrid Electric Vehicle Information – Troubleshooting.....	214
Home Screen.....	533	How Does Speed Sign Recognition Work.....	374	Plug-In Hybrid Electric Vehicle Information.....	215
Hood Lock See: Opening and Closing the Hood.....	426	How Does Stability Control Work.....	288	Plug-In Hybrid Electric Vehicle Information – Troubleshooting.....	216
Horn.....	112	How Does the 360 Degree Camera Work.....	302	Power Flow.....	217
How Does 911 Assist Work.....	76	How Does the Lane Keeping System Work.....	342	Hybrid Electric Vehicle Information – Troubleshooting.....	214
How Does ActiveGlide™ Work.....	328	How Does the Memory Function Work.....	192	Hybrid Electric Vehicle Information – Frequently Asked Questions.....	214
How Does Active Park Assist Work.....	305	How Does the Personal Safety System Work.....	64	Hybrid Electric Vehicle Information – Information Messages.....	214
How Does Adaptive Cruise Control With Stop and Go Work.....	310	How Does the Rear Occupant Alert System Work.....	189	Hybrid Electric Vehicle Information – Warning Lamps.....	214
How Does a Hybrid Electric Vehicle Work.....	213	How Does the Safety Canopy™ Work.....	67		
How Does All-Wheel Drive Work.....	266	How Does Traction Control Work.....	286		
How Does Auto Hold Work.....	284	How Does Trailer Sway Control Work.....	393	Identifying Fuse Types.....	425
How Does Blind Spot Information System Work.....	353	How Does Trip Summary Work.....	341	Identifying the Climate Control Unit.....	168
How Does Cross Traffic Alert Work.....	357	How Do Personal Profiles Work.....	548	Inflating the Tires.....	471
How Does Cross Traffic Braking Work.....	279	How Do the Front Airbags Work.....	65	Information On Demand Screen.....	533
How Does Driver Alert Work.....	372				

Index

Information on the Tire Sidewall.....	461
In-Lane Repositioning.....	334
How Does In-Lane Repositioning Work.....	334
In-Lane Repositioning Indicators.....	335
Switching In-Lane Repositioning On and Off.....	335
Inspecting the Tire for Damage.....	472
Inspecting the Tire for Wear.....	471
Inspecting the Wheel Valve Stems.....	473
Installing and Removing the Luggage Compartment Cover.....	383
Installing Child Restraints.....	47
Combining the Seatbelt and Lower Anchors for Attaching Child Restraints.....	50
Installing a Child Restraint in a Center Seat.....	50
Using Lower Anchors and Tethers for Children.....	49
Using Seatbelts.....	47
Using Tether Straps.....	51
Instrument Cluster Display.....	152
Instrument Cluster Display Main Menu.....	153
Instrument Cluster Indicators.....	142
Instrument Cluster.....	138
Fuel Gauge.....	139
Instrument Cluster Overview.....	138
Instrument Cluster Warning Lamps.....	140

Instrument Panel.....	34
Interior Air Quality.....	174
Auto Air Refresh.....	174
Interior Air Quality – Troubleshooting.....	177
Interior Air Quality – Troubleshooting.....	177
Interior Air Quality – Information Messages.....	177
Interior Bulbs.....	450
Interior Bulb Specification Chart.....	450
Interior Lamp Function.....	129
Switching the Interior Lamp Function On and Off.....	129
What Is the Interior Lamp Function.....	129
Interior Lighting.....	128
Ambient Lighting.....	129
Interior Lamp Function.....	129
Interior Lighting – Troubleshooting.....	129
Interior Lighting – Troubleshooting.....	129
Interior Lighting – Frequently Asked Questions.....	129
Interior Mirror.....	133
Auto-Dimming Interior Mirror.....	133
Interior Mirror Precautions.....	133
Introduction.....	21

J

Jump Starting the Vehicle.....	402
Jump Starting Precautions.....	402
Jump Starting the Vehicle.....	402
Preparing the Vehicle.....	402

K

Keyless Entry.....	92
Keyless Entry – Troubleshooting.....	93
Keyless Entry Keypad.....	94
Keyless Entry Keypad – Troubleshooting.....	97
Keyless Entry Keypad Limitations.....	94
Keyless Entry Keypad Master Access Code.....	94
Keyless Entry Keypad Personal Access Codes.....	95
Keyless Entry Keypad – Troubleshooting.....	97
Keyless Entry Keypad – Frequently Asked Questions.....	97
Keyless Entry Limitations.....	92
Keyless Entry Settings.....	92
Keyless Entry – Troubleshooting.....	93
Keyless Entry – Frequently Asked Questions.....	93

Index

Keys and Remote Controls.....	78
Keys and Remote Controls –	
Troubleshooting.....	82
Keys and Remote Controls –	
Troubleshooting.....	82
Keys and Remote Controls – Information	
Messages.....	82

L

Lane Centering.....	319
How Does Lane Centering Work.....	319
Lane Centering Alerts.....	321
Lane Centering Automatic Cancellation.....	321
Lane Centering Indicators.....	322
Lane Centering Limitations.....	320
Lane Centering Manual Cancellation.....	321
Lane Centering Precautions.....	319
Lane Centering Requirements.....	319
Switching Lane Centering On and Off.....	320
Lane Change Assist.....	333
How Does Lane Change Assist Work.....	333
Lane Change Assist Cancellation.....	333
Lane Change Assist Limitations.....	333
Switching Lane Change Assist On and	
Off.....	333
Lane Change Assist -	
Troubleshooting.....	334
Lane Change Assist - Information	
Messages.....	334
Lane Keeping System Indicators.....	346
Lane Keeping System.....	342
Aid Mode.....	344
Alert and Aid Mode.....	345
Alert Mode.....	344
Blind Spot Assist.....	347
Lane Keeping System –	
Troubleshooting.....	350
Lane Keeping System Limitations.....	343
Lane Keeping System Precautions.....	342
Lane Keeping System Settings.....	344
Lane Keeping System –	
Troubleshooting.....	350
Lane Keeping System – Frequently Asked	
Questions.....	351
Lane Keeping System – Information	
Messages.....	350
Lane Keeping System Videos.....	352
Launching or Retrieving a Boat or Personal	
Watercraft.....	390
Liftgate.....	99
Closing the Liftgate.....	102
Liftgate – Troubleshooting.....	105
Opening the Liftgate.....	99
Liftgate Obstacle Detection.....	104
Liftgate Precautions.....	99
Liftgate – Troubleshooting.....	105
Liftgate – Frequently Asked Questions.....	106
Liftgate – Information Messages.....	105
Liftgate – Warning Lamps.....	105
Lincoln Personal Assistant.....	534
Lincoln Personal Assistant – Frequently Asked	
Questions.....	534
Lincoln Personal Assistant Settings.....	534
Using Lincoln Personal Assistant.....	534
Lincoln Protect.....	560
Linking or Unlinking a Personal Profile to	
a Device.....	549
Linking or Unlinking a Personal Profile to	
a Remote Control.....	549
Live Traffic.....	551
Switching Live Traffic On and Off.....	551
What Is Live Traffic.....	551
Load Carrying.....	378
Roof Rack.....	382
Load Carrying Precautions.....	378
Loading Your Trailer.....	389
Locating the 360 Degree Cameras.....	303
Locating the Blind Spot Information System	
Sensors.....	354
Locating the Brake Fluid Reservoir.....	269
Locating the Charge Port.....	247

Index

Locating the Cross Traffic Alert Sensors.....	358
Locating the Fuel Filler Funnel.....	224
Locating the Keyless Entry Keypad.....	94
Locating the Memory Function Buttons.....	192
Locating the Power Outlets.....	201
Locating the Pre-Collision Assist Sensors.....	365
Locating the Rear View Camera.....	299
Locating the Safety Compliance Certification Labels.....	379
Locating the Tire label.....	460
Locating the Tire Sealant and Inflator Kit.....	475
Locating the USB Ports.....	199
Locating the Wireless Accessory Charger.....	202
Locating Your Vehicle.....	79
Locking the Rear Window Controls.....	132
Luggage Compartment Anchor Points.....	385
Locating the Luggage Compartment Anchor Points.....	385
Luggage Compartment Anchor Point Precautions.....	385
Luggage Compartment.....	383
Luggage Compartment Anchor Points.....	385

Luggage Compartment Precautions.....	383
--------------------------------------	-----

M

Maintenance.....	426
12V Battery.....	442
12V Battery – Troubleshooting.....	446
Coolant.....	437
Engine Air Filter.....	434
Engine Oil.....	432
Exterior Bulbs.....	450
Interior Bulbs.....	450
Maintenance Precautions.....	426
Maintenance Videos.....	450
Making and Receiving a Phone Call.....	540
Manually Releasing the Electric Parking Brake.....	272
Manually Shifting Gears.....	259
Shifting Using the Paddle Shifters.....	259
Manual Park Release - Gasoline.....	262
Manual Park Release Precautions.....	262
Using Manual Park Release.....	262
What Is Manual Park Release.....	262
Manual Seats.....	185
Adjusting the Head Restraint.....	185
Adjusting the Seat Backrest.....	186
Folding the Seat Backrest.....	186
Head Restraint Components.....	185

Installing the Head Restraint.....	186
Moving the Seat Backward and Forward.....	186
Removing the Head Restraint.....	185
Unfolding the Seat Backrest.....	187
Massage Seats.....	182
Adjusting the Massage Seat Settings.....	182
Massage Seat Limitations.....	182
Memory Function.....	192
Memory Function Precautions.....	192
Mislock.....	89
Mislock Limitations.....	89
Switching Mislock On and Off.....	89
What Is Mislock.....	89
Mobile Communications Equipment.....	621
Mobile Device Data.....	29
Moonroof Bounce-Back.....	137
Overriding Moonroof Bounce-Back.....	137
What Is Moonroof Bounce-Back.....	137
Moonroof.....	136
Moonroof Bounce-Back.....	137
Motorcraft Parts - 2.0L EcoBoost™.....	497
Motorcraft Parts - 2.5L, Plug-In Hybrid Electric Vehicle (PHEV).....	498
Muting the Audio.....	522

Index

N

Navigation Map Updates.....	551
Navigation.....	551
Adjusting the Map.....	551
Live Traffic.....	551
Route Guidance.....	553
Setting a Destination.....	552
Waypoints.....	552
Normal Scheduled Maintenance.....	568

O

Opening and Closing the Hood.....	426
Opening and Closing the Moonroof.....	136
Opening and Closing the Sunshade.....	136
Opening and Closing the Windows.....	130
Opening the Liftgate.....	99
Opening the Hands-Free Liftgate.....	100
Opening the Liftgate From Inside Your Vehicle.....	99
Opening the Liftgate From Outside Your Vehicle.....	99
Opening the Liftgate Using the Remote Control.....	100

Operating the Doors From Inside Your Vehicle.....	88
Opening the Doors From Inside Your Vehicle.....	88
Unlocking and Locking the Doors Using the Central Locking.....	88
Operating the Doors From Outside Your Vehicle.....	87
Individually Unlocking and Locking the Doors Using the Key Blade.....	87
Unlocking and Locking the Doors Using the Key Blade.....	87
Unlocking and Locking the Doors Using the Remote Control.....	87
Operating a Canadian French Owner's Manual.....	578
OTA	
See: Software Update Settings.....	554
See: Vehicle Software Updates.....	554
Overhead Storage.....	204
Opening the Overhead Storage Compartment.....	204
Overriding Cross Traffic Braking.....	280
Overriding Reverse Braking Assist.....	276
Overriding the Set Speed.....	318
Over the air	
See: Software Update Settings.....	554

Over-the-air	
See: Software Update Settings.....	554
See: Vehicle Software Updates.....	554
See: Vehicle Software Updates.....	554

P

Parking Aid Indicators.....	297
Parking Aid Precautions.....	293
Parking Aids.....	293
Front Parking Aid.....	295
Parking Aids – Troubleshooting.....	297
Rear Parking Aid.....	294
Side Parking Aid.....	296
Parking Aids – Troubleshooting.....	297
Parking Aids – Information Messages.....	297
Passive Anti-Theft System.....	107
Arming the Passive Anti-Theft System.....	107
Disarming the Passive Anti-Theft System.....	107
How Does the Passive Anti-Theft System Work.....	107
What Is the Passive Anti-Theft System.....	107
Pedestrian Alert System.....	75
Perchlorate.....	620
Performing a System Reset.....	557
Personalized Settings.....	158
Personal Profiles.....	548

Index

Personal Safety System Components.....	64	Plug-In Hybrid Electric Vehicle Information		Adjusting the Seat Cushion.....	181
Personal Safety System™.....	64	– Troubleshooting.....	216	Adjusting the Seat Height.....	182
Phone as a Key Limitations.....	83	Plug-In Hybrid Electric Vehicle Information –		Folding the Seat Backrest.....	187
Phone as a Key.....	83	Information Messages.....	217	Head Restraint Components.....	179
Phone as a Key – Troubleshooting.....	85	Plug-In Hybrid Electric Vehicle Information –		Installing the Head Restraint.....	180
Phone as a Key – Troubleshooting.....	85	Warning Lamps.....	216	Moving the Seat Backward and	
Phone as a Key – Frequently Asked		Post-Crash Alert System.....	405	Forward.....	180
Questions.....	85	How Does the Post-Crash Alert System		Removing the Head Restraint.....	180
Phone as a Key Videos.....	86	Work.....	405	Pre-Collision Assist Limitations.....	362
Phone Menu.....	538	Post-Crash Alert System Limitations.....	405	Pre-Collision Assist Limitations - Vehicles	
Phone.....	538	Switching the Post-Crash Alert System		With: Intersection Assist.....	363
Phone Precautions.....	538	Off.....	405	Pre-Collision Assist Precautions.....	361
Playing Media Using Bluetooth®.....	544	What Is the Post-Crash Alert System.....	405	Pre-Collision Assist.....	361
Playing Media Using the USB Port.....	199	Post Impact Braking.....	405	Automatic Emergency Braking.....	368
Playing or Pausing the Audio Source.....	521	How Does Post Impact Braking Work.....	405	Distance Alert.....	368
Plug-In Hybrid Electric Vehicle		Overriding Post Impact Braking.....	406	Distance Indication.....	365
Information.....	215	Post Impact Braking Indicators.....	406	Evasive Steering Assist.....	368
How Does a Plug-In Hybrid Electric Vehicle		Post Impact Braking Limitations.....	405	Pre-Collision Assist – Troubleshooting.....	369
Work.....	215	Power Flow.....	217	Pre-Collision Assist –	
How Does Low Engine Use Mode Work.....	216	How Does Power Flow Work.....	217	Troubleshooting.....	369
Plug-In Hybrid Electric Vehicle Driving		What is Power Flow.....	217	Pre-Collision Assist – Frequently Asked	
Characteristics.....	215	Power Gauge.....	146	Questions.....	370
Plug-In Hybrid Electric Vehicle		Power Outlet.....	201	Pre-Collision Assist – Information	
Indicators.....	215	Power Outlet Precautions.....	201	Messages.....	369
What Is a Plug-In Hybrid Electric		Power Seats.....	179	Pre-Collision Assist – Warning Lamps.....	369
Vehicle.....	215	Adjusting the Head Restraint.....	179	Predictive Speed Assist.....	322
What Is Low Engine Use Mode.....	216	Adjusting the Lumbar Support.....	182	Adjusting the Set Speed Tolerance.....	323
		Adjusting the Seat Backrest.....	181		

Index

How Does Predictive Speed Assist Work.....	322
Predictive Speed Assist Alerts.....	324
Predictive Speed Assist Indicators.....	324
Predictive Speed Assist Limitations.....	323
Predictive Speed Assist Precautions.....	322
Switching Predictive Speed Assist Mode On and Off.....	323
Predictive Speed Assist – Troubleshooting.....	325
Predictive Speed Assist – Information Messages.....	325
Preparing Your Vehicle for Storage.....	458
Programming the Garage Door Opener.....	195
Programming the Remote Control.....	81
Programming Your Phone.....	83
Properly Adjusting the Driver and Front Passenger Seats.....	69
Protecting the Environment.....	31
Puncture See: Changing a Flat Tire.....	487
Push Button Ignition Switch.....	205

R

Radio Frequency Certification Labels.....	580
Blind Spot Information System Sensors.....	580
Body Control Module.....	584
Cruise Control Module.....	585
Garage Door Opener.....	589
Keys and Remote Controls.....	590
Radio Transceiver Module.....	593
Remote Function Actuator.....	584
SYNC.....	597
Telematics Control Unit.....	603
Tire Pressure Monitoring System Sensors.....	604
Wireless Accessory Charging Module.....	612
Rear Cross Traffic Braking See: Cross Traffic Braking.....	279
Rear Exterior.....	40
Rear Occupant Alert System Audible Warnings.....	191
Rear Occupant Alert System Indicators.....	191
Rear Occupant Alert System Limitations.....	190
Rear Occupant Alert System Precautions.....	190
Rear Occupant Alert System.....	189

Rear Occupant Alert System Settings.....	190
Rear Parking Aid.....	294
Locating the Rear Parking Aid Sensors.....	294
Rear Parking Aid Audible Warnings.....	295
Rear Parking Aid Limitations.....	294
What is the Rear Parking Aid.....	294
Rear Seats.....	185
Heated Seats.....	188
Manual Seats.....	185
Power Seats.....	187
Rear View Camera Guide Lines.....	299
Rear View Camera Object Distance Indicators.....	300
Rear View Camera Precautions.....	299
Rear View Camera.....	299
Rear View Camera Settings.....	300
Rear View Camera Settings.....	300
Switching Rear View Camera Delay On and Off.....	301
Zooming the Rear View Camera In and Out.....	300
Rebooting the Center Display.....	533
Recalling a Preset Position.....	192
Recreationally Towing Your Vehicle - Gasoline, AWD.....	410
Recreationally Towing Your Vehicle - Gasoline, FWD.....	410

Index

Recreationally Towing Your Vehicle - Plug-In Hybrid Electric Vehicle (PHEV).....	409
Recycling and Disposing of the High Voltage Battery.....	235
Refueling.....	226
Manually Opening the Fuel Filler Door.....	230
Refueling System Overview.....	226
Refueling Your Vehicle.....	226
Releasing the Electric Parking Brake if the Vehicle Battery Has Run Out of Charge.....	273
Remote Control Limitations.....	78
Remotely Starting and Stopping the Vehicle.....	165
Remote Start Limitations.....	165
Remote Start Precautions.....	165
Remote Start Remote Control Indicators.....	166
Remote Start.....	165
Remote Start Settings.....	166
Removing the Key Blade.....	79
Removing Your Vehicle From Storage.....	459
Repairing Minor Paint Damage.....	456
Replacement Parts Recommendation.....	620

Replacing a Lost Key or Remote Control.....	81
Replacing the Cabin Air Filter.....	174
Replacing the Front Wiper Blades.....	115
Replacing the Rear Wiper Blades.....	115
Reporting Safety Defects in Canada.....	579
Reporting Safety Defects in the United States.....	578
Resetting the Stopping Position - Vehicles With: Power Adjustable Steering Column.....	112
Resetting the Trip Computer.....	159
Restarting the Engine.....	220
Resuming the Set Speed.....	317
Reverse Braking Assist Indicators.....	276
Reverse Braking Assist Precautions.....	275
Reverse Braking Assist.....	275
Reverse Braking Assist – Troubleshooting.....	277
Reverse Braking Assist – Troubleshooting.....	277
Reverse Braking Assist – Frequently Asked Questions.....	278
Reverse Braking Assist – Information Messages.....	277
Reverse Braking Assist Videos.....	278
Reverse Wipe.....	114
Reverse Wipe Settings.....	114

What Is Reverse Wipe.....	114
Roadside Assistance.....	399
Rollover Warning.....	576
Roof Rack.....	382
Roof Rack Precautions.....	382
Route Guidance.....	553
Adjusting the Guidance Prompt Volume.....	553
Canceling Route Guidance.....	553
Repeating an Instruction.....	553
Running-In See: Breaking-In.....	394
Running Out of Fuel.....	225
Adding Fuel From a Portable Fuel Container.....	225
Filling a Portable Fuel Container.....	225

S

Satellite Radio.....	525
Locating the Satellite Radio Identification Number.....	526
Satellite Radio Limitations.....	526
Satellite Radio Settings.....	527
Selecting a Channel.....	526
Setting an Alert.....	527
What Is Satellite Radio.....	525
Saving a Preset Position.....	192

Index

Scheduled Maintenance.....	563	What is Sensitive Locking Mode.....	58	Setting the Speed Sign Recognition Speed Warning.....	375
Seatbelt Extensions.....	63	Service Data.....	27	Setting the Temperature.....	170
Seatbelt Precautions.....	56	Setting a Destination.....	552	Shifting Your Immobile Vehicle Out of Park (P) - Gasoline.....	264
Seatbelt Reminder.....	60	Setting a Destination Using a Point of Interest.....	552	Shifting Your Vehicle Into Gear.....	259
How Does the Seatbelt Reminder Work.....	60	Setting a Destination Using a Predictive Destination.....	552	Side Parking Aid.....	296
Seatbelt Reminder Audible Warnings.....	61	Setting a Destination Using a Recent Destination.....	552	Locating the Side Parking Aid Sensors.....	297
Seatbelt Reminder Indicators.....	60	Setting a Destination Using a Saved Destination.....	552	Side Parking Aid Audible Warnings.....	297
Switching the Seatbelt Reminder On and Off.....	62	Setting a Destination Using the Map Screen.....	552	Side Parking Aid Limitations.....	296
Seatbelts.....	56	Setting a Destination Using the Text Entry Screen.....	552	What is the Side Parking Aid.....	296
Automatic Locking Mode.....	58	Setting a Memory Preset.....	522	Signing Into Your Account.....	536
Seatbelt Reminder.....	60	Settings Data.....	28	Sitting in the Correct Position.....	178
Sensitive Locking Mode.....	58	Setting the Adaptive Cruise Control Gap.....	315	Software Update Indicators.....	555
Security.....	107	Setting the Adaptive Cruise Control Speed.....	314	Software Update Settings.....	554
Anti-Theft Alarm System.....	107	Setting the Blower Motor Speed.....	170	Software Update	
Anti-Theft Alarm System Settings.....	108	Setting the Charging Schedule and Preferences.....	250	See: Software Update Settings.....	554
Passive Anti-Theft System.....	107	Setting the Clock and Date.....	523	See: Vehicle Software Updates.....	554
Security – Troubleshooting.....	109	Setting the Liftgate Opening Height.....	101	Sounding the Panic Alarm.....	79
Security – Troubleshooting.....	109	Setting the Speed Sign Recognition Speed Tolerance.....	375	Special Operating Conditions Scheduled Maintenance.....	572
Security – Frequently Asked Questions.....	110			Speedometer.....	139
Security – Information Messages.....	109			Speed Sign Recognition Indicators.....	375
Selecting a Drive Mode.....	338			Speed Sign Recognition Limitations.....	374
Selecting the Audio Source.....	521			Speed Sign Recognition	
Sending and Receiving a Text Message.....	542			Precautions.....	374
Sensitive Locking Mode.....	58				
How Does Sensitive Locking Mode Work.....	58				

Index

Speed Sign Recognition.....	374	Starting and Stopping the Engine – Troubleshooting.....	210	Storage.....	204
Speed Sign Recognition – Troubleshooting.....	376	Starting and Stopping the Engine – Frequently Asked Questions.....	212	Center Console.....	204
Speed Sign Recognition – Troubleshooting.....	376	Starting and Stopping the Engine – Information Messages.....	211	Glove Compartment.....	204
Speed Sign Recognition – Frequently Asked Questions.....	377	Starting and Stopping the Engine – Warning Lamps.....	210	Overhead Storage.....	204
Speed Sign Recognition – Information Messages.....	376	Starting the Engine.....	206	Storing Your Vehicle.....	458
Stability Control Indicator.....	289	Restarting the Engine After Stopping it.....	207	Sunroof	
Stability Control.....	288	Starting a Gasoline Engine.....	206	See: Moonroof.....	136
Stability Control – Troubleshooting.....	290	Starting a Hybrid Electric Vehicle System.....	206	Switching ActiveGlide™ On and Off.....	330
Stability Control – Troubleshooting.....	290	Status Bar.....	532	Switching Active Park Assist On and Off.....	305
Stability Control – Information Messages.....	290	Steering.....	291	Switching Adaptive Cruise Control On and Off.....	313
Stability Control – Warning Lamps.....	290	Electric Power Steering.....	291	Switching Air Conditioning On and Off.....	168
Starting and Stopping the Engine – Precautions.....	205	Steering – Troubleshooting.....	291	Switching All of the Interior Lamps On and Off.....	128
Starting and Stopping the Engine.....	205	Steering – Troubleshooting.....	291	Switching Android Auto On and Off.....	546
Automatic Engine Stop.....	209	Steering – Information Messages.....	292	Switching Apple CarPlay On and Off.....	546
Engine Block Heater.....	207	Steering – Warning Indicators.....	291	Switching Auto Hold On and Off.....	284
Starting and Stopping the Engine – Troubleshooting.....	210	Steering Wheel.....	32	Switching Auto-Start-Stop On and Off.....	220
Starting the Engine.....	206	Stopping the Engine.....	220	Switching Blind Spot Information System On and Off.....	354
Stopping the Engine.....	208	Stopping the Engine When Your Vehicle is Moving.....	208	Switching Climate Control On and Off.....	168
		Stopping the Engine When Your Vehicle is Stationary.....	208	Switching Cross Traffic Alert On and Off.....	358
		Stopping the Liftgate Movement.....	104		

Index

Switching Cross Traffic Braking On and Off.....	280
Switching Defrost On and Off.....	168
Switching Driver Alert On and Off.....	373
Switching Easy Entry and Exit On and Off.....	98
Switching From Adaptive Cruise Control to Cruise Control.....	318
Switching Maximum Cooling On and Off.....	169
Switching Maximum Defrost On and Off.....	169
Switching Parking Aid On and Off.....	294
Switching Pre-Collision Assist On and Off.....	364
Switching Recirculated Air On and Off.....	168
Switching Repeat Mode On and Off.....	522
Switching Reverse Braking Assist On and Off.....	276
Switching Shuffle Mode On and Off.....	522
Switching Stability Control On and Off.....	289
Switching Text Message Notification On and Off.....	543
Switching the Audio Unit On and Off.....	521
Switching the Display On and Off.....	524

Switching the Front Interior Lamps On and Off.....	128
Switching the Hazard Flashers On and Off.....	401
Switching the Head Up Display On and Off.....	160
Switching the Heated Mirrors On and Off.....	170
Switching the Heated Rear Window On and Off.....	169
Switching the Heated Steering Wheel On and Off.....	112
Switching the Heated Wiper Park On and Off.....	169
Switching the Lane Keeping System Mode.....	344
Switching the Lane Keeping System On and Off.....	343
Switching the Rear Interior Lamps On and Off.....	128
Switching the Rear Window Wiper On and Off.....	114
Switching Traction Control On and Off.....	286
Symbols Glossary.....	23
Symbols Used on Your Vehicle.....	23

System Update	
See: Software Update Settings.....	554
See: Vehicle Software Updates.....	554

T	
Tachometer.....	139
Technical Specifications	
See: Capacities and Specifications.....	495
Temporary Neutral Mode.....	260
Entering Temporary Neutral Mode.....	260
Exiting Temporary Neutral Mode.....	261
How Does Temporary Neutral Mode Work.....	260
Temporary Neutral Mode Limitations.....	260
What Is Temporary Neutral Mode.....	260
The Better Business Bureau Auto Line Program.....	576
The Mediation and Arbitration Program.....	577
Third Party Software Copyright Acknowledgment.....	580
Tire Care.....	471
Tire Pressure Monitoring System Limitations.....	484
Tire Pressure Monitoring System Overview.....	482

Index

Tire Pressure Monitoring System	
Precautions.....	483
Tire Pressure Monitoring System.....	482
Tire Pressure Monitoring System –	
Troubleshooting.....	484
Tire Pressure Monitoring System –	
Troubleshooting.....	484
Tire Pressure Monitoring System –	
Information Messages.....	486
Tire Pressure Monitoring System – Warning	
Lamps.....	484
Tire Replacement Requirements.....	466
Tire Rotation.....	473
Tire Sealant and Inflator Kit	
Components.....	476
Tire Sealant and Inflator Kit	
Precautions.....	475
Tire Sealant and Inflator Kit.....	475
Towing a Trailer Limitations.....	389
Towing a Trailer Precautions.....	388
Towing a Trailer.....	388
Towing Weights and Dimensions.....	391
Towing Weights and Dimensions.....	391
Calculating the Maximum Loaded Trailer	
Weight for Your Vehicle.....	392
Recommended Towing Weights.....	391
What Is the Maximum Loaded Trailer	
Weight.....	392

Towing Your Vehicle Precautions.....	409
Towing Your Vehicle.....	409
Towing Your Vehicle – Troubleshooting.....	411
Towing Your Vehicle –	
Troubleshooting.....	411
Towing Your Vehicle – Information	
Messages.....	411
Traction Control Indicator.....	286
Traction Control.....	286
Traction Control – Troubleshooting.....	286
Traction Control – Troubleshooting.....	286
Traction Control – Information	
Messages.....	287
Traction Control – Warning Lamps.....	286
Trailer Brake Precautions.....	388
Trailer Sway Control Precautions.....	393
Trailer Sway Control.....	393
Trailer Towing Hints.....	389
Transporting the Vehicle.....	406
Trip Computer.....	159
Trip Data.....	159
Trip Summary.....	157

U

Under Hood Fuse Box.....	412
Accessing the Under Hood Fuse Box.....	412

Identifying the Fuses in the Under Hood Fuse	
Box.....	414
Locating the Under Hood Fuse Box.....	412
Under Hood Overview - 2.0L	
EcoBoost™.....	428
Under Hood Overview - 2.5L, Plug-In	
Hybrid Electric Vehicle (PHEV).....	430
USB Ports.....	199
Using Alexa Built-In.....	536
Using Auto Hold.....	284
Using Keyless Entry.....	92
Using LincolnWay and Charging.....	255
Using Snow Chains.....	469
Using the Backup Start Passcode.....	84
Using the Instrument Cluster Display	
Controls.....	152
Using the Keyless Entry Keypad.....	96
Using the Remote Control.....	78
Using the Tire Sealant and Inflator	
Kit.....	476
Using the Valet Mode.....	84
Using This Publication.....	22

V

Vehicle Care.....	451
Cleaning the Exterior.....	452
Cleaning the Interior.....	454

Vehicle Charging Status.....	157
Vehicle Identification Number.....	513
Locating the Vehicle Identification Number.....	513
Vehicle Identification Number Overview.....	513
Vehicle Identification.....	513
Vehicle Identification Number.....	513
Vehicle Interior.....	36
Vehicle Range Display.....	147
Vehicle Software Updates.....	554
Vehicle System Reset.....	557
Vehicle Wi-Fi Hotspot – Troubleshooting.....	520
Vehicle Wi-Fi Hotspot – Frequently Asked Questions.....	520
Vehicle Wi-Fi Hotspot.....	519
Vehicle Wi-Fi Hotspot – Troubleshooting.....	520
Ventilated Seats.....	184
Switching the Ventilated Seats On and Off.....	184
Ventilation See: Climate Control.....	168
Venting the Moonroof.....	137
Viewing the Instantaneous Efficiency Level.....	341
Viewing the Tire Pressures.....	484
Viewing the Trip Summary.....	341

Warranty Information.....	653
Washer Fluid Specification.....	510
Washers.....	116
Adding Washer Fluid.....	117
Switching the Courtesy Wipe On and Off.....	116
Using the Rear Window Washer.....	116
Using the Windshield Washer.....	116
Washer Fluid Specification.....	117
Washer Precautions.....	116
Washers	
See: Wipers and Washers.....	113
Waxing Your Vehicle.....	456
Waypoints.....	552
Adding a Waypoint.....	552
Editing Waypoints.....	552
What Are the Instrument Cluster Indicators.....	142
What Are the Instrument Cluster Warning Lamps.....	140
What Is 911 Assist.....	76
What is AC Charging.....	236

2023 Corsair (CTF) Canada/United States of America. enUSA. Edition date: 202208. DOM

Index

What Is the Gross Vehicle Weight Rating.....	379	Window Bounce-Back.....	131	Wireless Accessory Charger.....	202
What Is the Head Up Display.....	160	Overriding Window Bounce-Back.....	131	Wireless Accessory Charger –	
What Is the High Voltage Battery.....	235	What Is Window Bounce-Back.....	131	Troubleshooting.....	203
What Is the Keyless Entry Keypad.....	94	Windows.....	130		
What Is the Lane Keeping System.....	342	Global Opening and Closing.....	130		
What Is the Pedestrian Alert System.....	75	Window Bounce-Back.....	131		
What Is the Personal Safety System.....	64	Wipers and Washers –			
What Is the Power Outlet.....	201	Troubleshooting.....	117		
What Is the Rear Occupant Alert System.....	189	Wipers and Washers – Frequently Asked			
What Is the Rear View Camera.....	299	Questions.....	117		
What Is the Tire Pressure Monitoring System.....	482	Wipers and Washers – Warning Lamps.....	117		
What Is the Tire Sealant and Inflator Kit.....	475	Wipers and Washers.....	113		
What Is the Wireless Accessory Charger.....	202	Autowipers.....	113		
Wheel and Tire Information.....	460	Reverse Wipe.....	114		
Wheel Nuts.....	493	Washers.....	116		
Wi Fi		Wipers.....	113		
See: Changing the Vehicle Wi-Fi Hotspot Name or Password.....	519	Wipers and Washers – Troubleshooting.....	117		
See: Connecting the Vehicle to a Wi-Fi Network.....	514	Wipers.....	113		
See: Creating a Vehicle Wi-Fi Hotspot.....	519	Switching Windshield Wipers On and Off.....	113		
See: Vehicle Wi-Fi Hotspot.....	519	Wiper Precautions.....	113		
		Wireless Accessory Charger Precautions.....	202		
		Wireless Accessory Charger –			
		Troubleshooting.....	203		
		Wireless Accessory Charger – Information Messages.....	203		

