# 2007 Owner's Manual

ELANTRA

HYUNDAI Drive your way™

#### WARRANTIES FOR YOUR HYUNDAI VEHICLE

Please consult your Owner's Handbook & Warranty Information booklet for your vehicle's specific warranty coverage.

#### **RESPONSIBILITY FOR MAINTENANCE**

The maintenance requirements for your new Hyundai are found in Section 7. As the owner, it is your responsibility to see that all maintenance operations specified by the manufacturer are carried out at the appropriate intervals. When the vehicle is used in severe driving conditions, more frequent maintenance is required for some operations. Maintenance requirements for severe operating conditions are also included in Section 7.

## HYUNDAI





### **OWNER'S MANUAL**

Operation Maintenance Specifications

All information in this Owner's Manual is current at the time of publication. However, Hyundai reserves the right to make changes at any time so that our policy of continual product improvement may be carried out.

This manual applies to all Hyundai models and includes descriptions and explanations of optional as well as standard equipment. As a result, you may find material in this manual that does not apply to your specific vehicle.

#### CAUTION: MODIFICATIONS TO YOUR HYUNDAI

Your Hyundai should not be modified in any way. Such modifications may adversely affect the performance, safety or durability of your Hyundai and may, in addition, violate conditions of the limited warranties covering the vehicle. Certain modifications may also be in violation of regulations established by the U.S. Department of Transportation and other federal or state agencies.

#### TWO-WAY RADIO OR CELLULAR TELEPHONE INSTALLATION

Your vehicle is equipped with electronic fuel injection and other electronic components. It is possible for an improperly installed/adjusted two-way radio or cellular telephone to adversely affect electronic systems. For this reason, we recommend that you carefully follow the radio manufacturer's instructions or consult your Hyundai dealer for precautionary measures or special instructions if you choose to install one of these devices.

#### SAFETY AND VEHICLE DAMAGE WARNING

This manual includes information titled as WARNING, CAUTION and NOTICE. These titles indicate the following:

#### **A** WARNING

This indicates that a condition may result in harm, serious injury or death to you or other persons if the warning is not heeded. Follow the advice provided with the warning.

#### 

This indicates that a condition may result in damage to your vehicle or its equipment if the caution is not heeded. Follow the advice provided with the caution.

#### **\* NOTICE**

This indicates that interesting or helpful information is being provided.

#### FOREWORD

Thank you for choosing Hyundai. We are pleased to welcome you to the growing number of discriminating people who drive Hyundais. The advanced engineering and high-quality construction of each Hyundai we build is something of which we're very proud.

Your Owner's Manual will introduce you to the features and operation of your new Hyundai. It is suggested that you read it carefully because the information it contains can contribute greatly to the satisfaction you receive from your new car.

The manufacturer also recommends that all service and maintenance on your car be performed by an authorized Hyundai dealer. Hyundai dealers are prepared to provide high-quality service, maintenance and any other assistance that may be required.

#### **HYUNDAI MOTOR COMPANY**

Note : Because future owners will also need the information included in this manual, if you sell this Hyundai, please leave the manual in the vehicle for their use. Thank you.

## 

Severe engine and transaxle damage may result from the use of poor quality fuels and lubricants that do not meet Hyundai specifications. You must always use high quality fuels and lubricants that meet the specifications listed on Page 9-4 in the Vehicle Specifications section of the Owner's Manual and which also appear in the Service Station Information on the back cover of the Owner's Manual.

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#### **Guide to Hyundai Genuine Parts**

#### 1. What are Hyundai Genuine Parts?

Hyundai Genuine Parts are the same parts used by Hyundai Motor Company to manufacture vehicles. They are designed and tested for the optimum safety, performance, and reliability to our customers.

#### 2. Why should you use genuine parts?

Hyundai Genuine Parts are engineered and built to meet rigid manufacturing requirements. Using imitation, counterfeit or used salvage parts is not covered under the Hyundai New Vehicle Limited Warranty or any other Hyundai warranty. In addition, any damage to or failure of Hyundai Genuine Parts caused by the installation or failure of an imitation, counterfeit or used salvage part is not covered by any Hyundai Warranty.

#### 3. How can you tell if you are purchasing Hyundai Genuine Parts?

Look for the Hyundai Genuine Parts Logo on the package (see below).

Hyundai Genuine Parts exported to the United States are packaged with labels written only in English.

Hyundai Genuine Parts are only sold through authorized Hyundai Dealerships.

## To find the closest authorized dealer call 1-800-826-CARS



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## TABLE OF CONTENTS

Introduction	1
Your vehicle at a glance	2
Safety system of your vehicle	3
Features of your vehicle	4
Driving your vehicle	5
What to do in an emergency	6
Maintenance	7
Consumer information	8
Specifications	9
Index	Ι

## Introduction

How to use this manual / 1-2 Fuel requirements / 1-3 Vehicle break-in process / 1-5 Vehicle data collection and event data recorders / 1-6 Indicator symbols on the instrument cluster / 1-7

#### HOW TO USE THIS MANUAL

We want to help you get the greatest possible driving pleasure from your vehicle. Your Owner's Manual can assist you in many ways. We strongly recommend that you read the entire manual. In order to minimize the chance of death or injury, you must read the WARNING and CAU-TION sections spread throughout the manual.

Illustrations complement the words in this manual to best explain how to enjoy your vehicle. By reading your manual, you learn about features, important safety information, and driving tips under various road conditions. The general layout of the manual is provided in the Table of Contents. A good place to start is the index; it has an alphabetical listing of all information in your manual.

Sections: This manual has nine sections plus an index. Each section begins with a brief list of contents so you can tell at a glance if that section has the information you want. You'll find various WARNING's, CAUTION's, and NOTICE's in this manual. These were prepared to enhance your personal safety. You should carefully read and follow ALL procedures and recommendations provided in these WARNING's, CAUTION's and NOTICE's.

## 

A WARNING indicates a situation in which harm, serious bodily injury or death could result if the warning is ignored.

#### 

A CAUTION indicates a situation in which damage to your vehicle could result if the caution is ignored.

#### **\* NOTICE**

A NOTICE indicates interesting or helpful information is being provided.

## FUEL REQUIREMENTS

#### Gasoline engine

#### Unleaded

Your new vehicle is designed to use only unleaded fuel having an Octane Rating of RON (Research Octane Number) 91 / AKI (Anti-Knock Index) 87 or higher.

Your new vehicle is designed to obtain maximum performance with UNLEADED FUEL, as well as minimize exhaust emissions and spark plug fouling.

## 

NEVER USE LEADED FUEL. The use of leaded fuel is detrimental to the catalytic converter and will damage the engine control system's oxygen sensor and affect emission control.

Never add any fuel system cleaning agents to the fuel tank other than what has been specified. (Consult an authorized Hyundai dealer for details.)

## 

- Do not "top off" after the nozzle automatically shuts off when refueling.
- Always check that the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

## Gasoline containing alcohol and methanol

Gasohol, a mixture of gasoline and ethanol (also known as grain alcohol), and gasoline or gasohol containing methanol (also known as wood alcohol) are being marketed along with or instead of leaded or unleaded gasoline.

Do not use gasohol containing more than 10% ethanol, and do not use gasoline or gasohol containing any methanol. Either of these fuels may cause drivability problems and damage to the fuel system.

Discontinue using gasohol of any kind if drivability problems occur.

Vehicle damage or driveability problems may not be covered by the manufacturer's warranty if they result from the use of:

- 1. Gasohol containing more than 10% ethanol.
- 2. Gasoline or gasohol containing methanol.
- 3. Leaded fuel or leaded gasohol.

## 

Never use gasohol which contains methanol. Discontinue use of any gasohol product which impairs drivability.

#### Use of MTBE

We recommend that fuels containing MTBE (Methyl Tertiary Butyl Ether) over 15.0% vol. (Oxygen Content 2.7% weight) should not be used in your vehicle.

Fuel containing MTBE over 15.0% vol. (Oxygen Content 2.7% weight) may reduce vehicle performance and produce vapor lock or hard starting.

## 

Your New Vehicle Limited Warranty may not cover damage to the fuel system and any performance problems that are caused by the use of fuels containing methanol or fuels containing MTBE (Methyl Tertiary Butyl Ether) over 15.0% vol. (Oxygen Content 2.7% weight.)

#### Do not use methanol

Fuels containing methanol (wood alcohol) should not be used in your vehicle. This type of fuel can reduce vehicle performance and damage components of the fuel system.

## 

Your New Vehicle Limited Warranty may not cover damage to the fuel system and performance problems that are caused by the use of methanol or fuels containing methanol.

#### Gasolines for cleaner air

To help contribute to cleaner air, we recommend that you use gasolines treated with detergent additives, which help prevent deposit formation in the engine. These gasolines will help the engine run cleaner and enhance performance of the Emission Control System.

#### **Operation in foreign countries**

If you are going to drive your vehicle in another country, be sure to:

- Observe all regulations regarding registration and insurance.
- Determine that acceptable fuel is available.

#### **VEHICLE BREAK-IN PROCESS**

No special break-in period is needed. By following a few simple precautions for the first 600 miles (1,000 km) you may add to the performance, economy and life of your vehicle.

- Do not race the engine.
- While driving, keep your engine speed (rpm, or revolutions per minute) between 2,000 rpm and 4,000 rpm.
- Do not maintain a single speed for long periods of time, either fast or slow. Varying engine speed is needed to properly break-in the engine.
- Avoid hard stops, except in emergencies, to allow the brakes to seat properly.
- Don't let the engine idle longer than 3 minutes at one time.
- Don't tow a trailer during the first 1,200 miles (2,000 km) of operation.

#### **VEHICLE DATA COLLECTION AND EVENT DATA RECORDERS**

Your Hyundai vehicle is equipped with many high technology, electronically controlled systems that help to ensure your vehicle operates properly and provides the performance that you expect. These systems utilize computers to monitor the operation of various systems and components and help to control their operation. These computerized system operations are wide-ranging and involve components to reduce emissions, to continuously evaluate the readiness of the airbad and seat belt pretensioner systems, to determine when the airbag and seat belt pre-tensioner systems should be deployed and then to activate the deployment, and if equipped, to operate anti-lock braking, traction control and electrical stability control to assist the driver to control the vehicle in difficult driving situations. These systems electronically store information that is useful to service technicians when they need to diagnose and repair these systems.

Additional information is stored only when a crash occurs that results in the deployment of the airbags or seat belt pre-tensioners. This type of data storage is done by devices called event data recorders(EDR).

After a crash event, the airbag and seat belt pre-tensioner computer system, known as the Supplemental **Restraint System Control Module** (SRSCM) or Airbag Control Unit (ACU), may record some information about the condition of the vehicle and how it was being operated. This information consists of data related to seat belt usage and if there was diagnostic information in the airbag or seat belt systems at the time that a crash occurred, and if the ACU sensed that a crash of sufficient severity occurred to require seat belt pre-tensioner or airbag deployment.

To retrieve this information, special equipment is needed and access to the vehicle or the device that stores the data is required. Hyundai will not access information about a crash event or share it with others except:

- in response to an official request of police or similar government office, or
- with the consent of the vehicle owner or, if the vehicle is leased, with the consent of the lessee, or
- as part of Hyundai's defense of litigation, or
- as required by law.

### INDICATOR SYMBOLS ON THE INSTRUMENT CLUSTER



Door ajar warning light



Seat belt warning light



High beam indicator



Turn signal indicator lights



Front fog light indicator (If equipped)



ESC indicator (If equipped)



ESC OFF indicator (If equipped)



ABS warning light (If equipped)



Parking brake & Brake fluid warning



Engine oil pressure warning



Charging system warning

\* For more detailed explanations, refer to section 4, "Instrument cluster".



Malfunction indicator lamp (If equipped)



Air bag warning light (If equipped)



CRUISE Cruise indicator (If equipped)



Cruise SET indicator (If equipped)



Trunk lid open warning light



Low fuel level warning



Low washer fluid level warning indicator



Electronic power steering (EPS) system warning light

## Your vehicle at a glance

Interior overview / 2-2 Instrument panel overview / 2-3

### **INTERIOR OVERVIEW**



1. Door lock/unlock button	4-8
2. Outside rearview mirror control switch*	4-37
3. Central door lock switch*	4-9
4. Power window lock switch*	4-17
5. Power window switches*	4-14
6. Trunk lid release button	4-12
7. Fuse box	7-46
8. ESC OFF button*	5-21
9. Instrument panel illumination	4-39
10. Steering wheel tilt	4-29
11. Hood release lever	4-18
12. Brake pedal	5-16
13. Accelerator pedal	5-6
14. Parking brake lever	5-18
* : if equipped	

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## **INSTRUMENT PANEL OVERVIEW**



1. Driver's air bag	.3-37
2. Light control / Turn signals	.4-51
3. Instrument cluster	.4-38
4. Wiper/Washer	.4-54
5. Auto cruise controls*	.5-26
6. Ignition switch	5-4
7. Steering wheel	.4-28
8. Digital clock	.4-85
9. Audio controls*4-88,	4-92
10. Climate control system*	.4-60
11. Hazard warning flasher switch	.4-50
12. Seat warmer*	3-6
13. Shift lever	5-7
14. Cigar lighter	.4-82
15. Power outlet	.4-84
16. Ashtray	.4-82
17. Passenger's air bag	.3-38
18. Storage compartment	.4-80
19. Vent controls	.4-63
20. Glove box	.4-80
* : if equipped	

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Seat / 3-2

Seat belts / 3-12 Child restraint system / 3-21 Airbag-advanced supplemental restraint system / 3-29

## Safety system of your vehicle

#### SEAT



Front seat

- (1) Forward and backward (driver seat)
- (2) Seatback angle (driver seat)
- (3) Seat cushion height (driver seat)\*
- (4) Seat warmer (driver seat)\*
- (5) Headrest (driver seat)
- (6) Forward and backward (passenger seat)
- (7) Seatback angle (passenger seat)
- (8) Headrest (passenger seat)
- (9) Seat warmer (passenger seat)\*

#### **Rear seats**

- (10) Center armrest\*
- (11) Headrest
- (12) Seatback folding lever
- \* if equipped

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A WARNING - Loose objects

Loose objects in the driver's foot area could interfere with the operation of the foot pedals, possibly causing an accident. Do not place anything under the front seats.

## WARNING - Uprighting seat

When you return the seatback to its upright position, hold the seatback and return it slowly and be sure there are no other occupants around the seat. If the seatback is returned without being held and controlled, the back of the seat could spring forward resulting in accidental injury to a person struck by the seatback.

#### A WARNING - Driver's seat

- Never attempt to adjust seat while the vehicle is moving. This could result in loss of control, and an accident causing death, serious injury, or property damage.
- Do not allow anything to interfere with the normal position of the seatback. Storing items against a seatback or in any other way interfering with proper locking of a seatback could result in serious or fatal injury in a sudden stop or collision.
- Always drive and ride with your seatback upright and the lap portion of the seat belt snug and low across the hips. This is the best position to protect you in case of an accident.
- In order to avoid unnecessary and perhaps severe air bag injuries, always sit as far back as possible from the steering wheel while maintaining comfortable control of the vehicle. It is recommended that your chest is at least 10 inches (250 mm) away from the steering wheel.



#### Front seat adjustment

Forward and backward

To move the seat forward or backward:

- 1. Pull the seat slide adjustment lever under the front edge of the seat cushion up and hold it.
- 2. Slide the seat to the position you desire.
- 3. Release the lever and make sure the seat is locked in place.

## A WARNING

After adjusting the seat, always check that it is securely locked into place by attempting to move the seat forward or reverse without using the lock release lever. Sudden or unexpected movement of the driver's seat could cause you to lose control of the vehicle resulting in an accident.



#### Seatback angle

To recline the seatback:

- 1. Lean forward slightly and lift up on the seatback recline lever located on the outside of the seat at the rear.
- Carefully lean back on the seat and adjust the seatback of the seat to the position you desire.
- 3. Release the lever and make sure the seatback is locked in place. (The lever MUST return to its original position for the seatback to lock.)

#### WARNING - Driver responsibility for front seat passenger

Riding in a vehicle with a front seatback reclined could lead to serious or fatal injury in an accident. If a front seat is reclined during an accident, the occupant's hips may slide under the lap portion of the seat belt applying great force to the unprotected abdomen. Serious or fatal internal injuries could result. The driver must advise the front passenger to keep the seatback in an upright position whenever the vehicle is in motion.



Seat cushion height (for driver's seat) To change the height of the seat cushion, push the lever up or down located on the outside of the seat cushion.

- To lower the seat cushion, push down the lever several times.
- To raise the seat cushion, pull up the lever several times.

Headrest

## **A** WARNING

- For maximum effectiveness in case of an accident the headrest should be adjusted so the middle of the headrest is at the same height as the top of the occupant's eyes. Also adjust the headrest so its distance from the head is as wide as your fist. For this reason, the use of a cushion that holds the body away from the seatback is not recommended.
- Do not operate the vehicle with the headrests removed as severe injury to the occupants may occur in the event of an accident. Headrests may provide protection against neck injuries when properly adjusted.
- Do not adjust the headrest height while the vehicle is in motion.



Active headrest (if equipped)

The active headrest is designed to move forward and upward during a rear impact. This helps to prevent the driver's and front passenger's head from moving backward and thus helps prevent neck injuries.



Forward and backward adjustment (if equipped)

The headrest may be adjusted forward to three different positions by pulling the headrest forward. To adjust the headrest backward, pull it fully forward to the farthest position and release it. Adjust the headrest so that it properly supports the head and neck.



Adjusting the height up and down

To raise the headrest, pull it up to the desired position (1). To lower the headrest, push and hold the release button (2) on the headrest support and lower the headrest to the desired position (3).



#### Removal

To remove the headrest, raise it as far as it can go then press the release button (1) while pulling upward (2).



#### Seat warmer (if equipped)

The seat warmer is provided to warm the front seats during cold weather. With the ignition switch in the ON position, push either of the switches to warm the driver's seat or the front passenger's seat.

During mild weather or under conditions where the operation of the seat warmer is not needed, keep the switches in the "OFF" position.

#### **\* NOTICE**

With the seat warmer switch in ON position, the heating system in the seat turns off or on automatically depending on the seat temperature.

## 

- When cleaning the seats, do not use an organic solvent such as thinner, benzene, alcohol and gasoline. Doing so may damage the surface of the heater or seats.
- To prevent overheating the seat warmer, do not place blankets, cushions or seat covers on the seats while the seat warmer is in operation.
- Do not place heavy or sharp objects on seats equipped with seat warmers. Damage to the seat warming components could occur.

## WARNING - Seat warmer burns

Passengers should use extreme caution when using seat warmers due to the possibility of excess heating or burns. In particular, the driver must exercise extreme care for the following types of passengers:

- 1. Infants, children, elderly or handicapped persons, or hospital outpatients
- 2. Persons with sensitive skin or those that burn easily
- 3. Fatigued individuals
- 4. Intoxicated individuals
- 5. Individuals taking medication that can cause drowsiness or sleepiness (sleeping pills, cold tablets, etc.)



#### Seatback pocket

The seatback pocket is provided on the back of the front passenger's and driver's seatbacks.

## WARNING - Seatback pockets

Do not put heavy or sharp objects in the seatback pockets. In an accident they could come loose from the pocket and injure vehicle occupants.

## A WARNING

For proper operation of the occupant classification system:

- Do not place any items cumulatively weighing over 2.2 lbs (1 kg) in the seatback pocket or on the seat.
- Do not hang onto the front passenger seat.



#### Rear seat adjustment

#### Headrest

The headrest not only provides comfort for passengers, but also helps to protect the head and neck in the event of a collision.

#### Adjusting the height up and down

To raise the headrest, pull it up to the desired position (1). To lower the headrest, push and hold the release button (2) on the headrest support and lower the headrest to the desired position (3).



#### Removal

To remove the headrest, raise it as far as it can go then press the release button (1) while pulling upward (2).

## A WARNING

- For maximum effectiveness in case of an accident, the headrest should be adjusted so the middle of the headrest is at the same height as the top of the occupant's eyes. The use of a cushion that holds the body away from the seatback is not recommended.
- Do not operate the vehicle with the headrests removed as severe injury to an occupant may occur in the event of an accident. Headrests may provide protection against severe neck injuries when properly adjusted.



*Armrest (if equipped)* To use the armrest, pull it forward from the seatback.

## 

- Make sure the engine is off, the transaxle is in P and the parking brake is applied whenever loading or unloading cargo. Vehicle may move if shift lever is inadvertently moved to another position.
- Be careful when loading cargo through the rear passenger seats to prevent damage to the vehicle interior.
- When cargo is loaded through the rear passenger seats, ensure the cargo is properly secured to prevent it from moving while driving. Unsecured cargo in the passenger compartment can cause damage to the vehicle or injury to it's occupants.

#### Folding the rear seat

The rear seatbacks may be folded to facilitate carrying long items or to increase the luggage capacity of the vehicle.

## **A** WARNING

The purpose of the fold-down rear seatbacks is to allow you to carry longer objects than could otherwise be accommodated.

Never allow passengers to sit on top of the folded down seatback while the car is moving as this is not a proper seating position and no seat belts are available for use. This could result in serious injury or death in case of an accident or sudden stop. Objects carried on the folded down seatback should not extend higher than the top of the front seats. This could allow cargo to slide forward and cause injury or damage during sudden stops.



#### To fold down the rear seatback:

- 1. Set the front seatback to the upright position and if necessary, slide the front seat forward.
- Lower the rear headrests to the lowest position.
- 3. Pull out the seatback locking knob in the trunk, then fold the seat toward the front of the vehicle.



- 4. For center shoulder belt, insert the belt webbing in the right side rear shoulder belt guide to prevent the belt from being trapped under the seat.
- 5. When you return the seatback to its upright position, always be sure it has locked into position by pushing on the top of the seatback.

## A WARNING

When you return the rear seatback to its upright position after being folded down:

Be careful not to damage the seat belt webbing or buckle. Do not allow the seat belt webbing or buckle to get caught or pinched in the rear seat. Ensure that the seatback is completely locked into its upright position by pushing on the top of the seaback. Otherwise, in an accident or sudden stop, the seat could fold down and allow cargo to enter the passenger compartment, which could result in serious injury or death.



CAUTION - Rear seat belts When returning the rear seatbacks to the upright position, remember to return the rear center shoulder belt to its proper position.

### A WARNING - Cargo

Cargo should always be secured to prevent it from being thrown about the vehicle in a collision and causing injury to the vehicle occupants. Special care should be taken of objects placed in the rear seats, since those may hit the front seat occupants in a frontal collision.

A WARNING - Cargo loading Make sure the engine is off, the transaxle is in P and the parking brake is applied whenever loading or unloading cargo. Failure to take these steps may allow the vehicle to move if shift lever is inadvertently moved to another position.

#### SEAT BELTS

#### Seat belt restraint system

### **A** WARNING

- For maximum restraint system protection, the seat belts must always be used whenever the car is moving.
- Seat belts are most effective when seatbacks are in the upright position.
- Children age 12 and younger must always be properly restrained in the rear seat. Never allow children to ride in the front passenger seat. If a child over 13 must be seated in the front seat, he/she must be properly belted and the seat should be moved as far back as possible.
- Never wear the shoulder belt under your arm or behind your back. An improperly positioned shoulder belt can cause serious injuries in a crash. The shoulder belt should be positioned midway over your shoulder across your collarbone.

(Continued)

#### (Continued)

- Avoid wearing twisted seat belts. A twisted belt can't do its job as well. In a collision, it could even cut into you. Be sure the belt webbing is straight and not twisted.
- Be careful not to damage the belt webbing or hardware. If the belt webbing or hardware is damaged, replace it.



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#### Seat belt warning

#### Seat belt warning light

If the driver's seat belt is not fastened when the ignition key is turned ON, the seat belt warning light blinks for approximately 6 seconds. And if the vehicle speed exceeds 10km/h with the seat belt unfastened, the seat belt warning light blinks with the pattern of 6 seconds on and 24 seconds off for 11 times. The seat belt warning light will stop if the seat belt is fastened or the vehicle speed is reduced to below 5km/h.

#### Seat belt warning chime

If the driver's seat belt is not fastened when the ignition key is turned ON, the seat belt warning chime sounds for approximately 6 seconds. And if the vehicle speed exceeds 10km/h with the seat belt unfastened, the seat belt warning chime sounds with the pattern of 6 seconds on and 24 seconds off for 11 times. The seat belt warning chime will stop if the seat belt is fastened or the vehicle speed is reduced to below 5km/h.



Seat belt - Driver's 3-point system with emergency locking retractor To fasten your seat belt:

To fasten your seat belt, pull it out of the retractor and insert the metal tab (1) into the buckle (2). There will be an audible "click" when the tab locks into the buckle. The seat belt automatically adjusts to the proper length only after the lap belt portion is adjusted manually so that it fits snugly around your hips. If you lean forward in a slow, easy motion, the belt will extend and let you move around. If there is a sudden stop or impact, however, the belt will lock into position. It will also lock if you try to lean forward too quickly.



You can adjust the height of the shoulder belt anchor to one of 4 positions for maximum comfort and safety.

If the height of the adjusting seat belt is too near your neck, you will not be getting the most effective protection. The shoulder portion should be adjusted so that it lies across your chest and midway over your shoulder nearest the door and not your neck.

To adjust the height of the seat belt anchor, lower or raise the height adjuster into an appropriate position. To raise the height adjuster, pull it up (1). To lower it, push it down (3) while pressing the height adjuster button (2).

Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.

## A WARNING

- Verify the shoulder belt anchor is locked into position at the appropriate height. Never position the shoulder belt across your neck or face. Improperly positioned seat belts can cause serious injuries in an accident.
- Failure to replace seat belts after an accident could leave you with damaged seat belts that will not provide protection in the event of another collision leading to personal injury or death. Replace your seat belts after being in an accident as soon as possible.



### **A** WARNING

You should place the lap belt portion as low as possible and snugly across your hips, not on your waist. If the lap belt is located too high on your waist, it may increase the chance of injury in the event of a collision. Both arms should not be under or over the belt. Rather, one should be over and the other under, as shown in the illustration. Never wear the seat belt under the arm nearest the door.

## Seat belts - Front passenger and rear seat 3-point system with combination locking retractor

#### To fasten your seat belt

Combination retractor type seat belts are installed in the rear seat positions to help accommodate the installation of child restraint systems. Although a combination retractor is also installed in the front passenger seat position, we strongly recommend that children always be seated in the rear seat. NEVER place any infant restraint system in the front seat of the vehicle.

This type of seat belt combines the features of both an emergency locking retractor seat belt and an automatic locking retractor seat belt. To fasten your seat belt, pull it out of the retractor and insert the metal tab into the buckle. There will be an audible "click" when the tab locks into the buckle. When not securing a child restraint, the seat belt operates in the same way as the driver's seat belt (Emergency Locking Retractor Type). It automatically adjusts to the proper length only after the lap belt portion of the seat belt is adjusted manually so that it fits snugly around your hips. When the seat belt is fully extended from the retractor to allow the installation of a child restraint system, the seat belt operation changes to allow the belt to retract, but not to extend (Automatic Locking Retractor Type). Refer to "Using a child restraint system" in this section.

#### **\* NOTICE**

Although the combination retractor provides the same level of protection for seated passengers in either emergency or automatic locking modes, it is recommended that seated passengers use the emergency locking feature for improved convenience. The automatic locking function is intended to facilitate child restraint installation. To convert from the automatic locking feature to the emergency locking operation mode, allow the unbuckled seat belt to fully retract.



To release the seat belt:

The seat belt is released by pressing the release button (1) in the locking buckle. When it is released, the belt should automatically draw back into the retractor. If this does not happen, check the belt to be sure it is not twisted, then try again.



#### Pre-tensioner seat belt

Your vehicle is equipped with driver's and front passenger's pre-tensioner seat belts. The purpose of the pre-tensioner is to make sure that the seat belts fit tightly against the occupant's body in certain frontal collisions. The pre-tensioner seat belts can be activated, where the frontal collision is severe enough, together with the air bags. When the vehicle stops suddenly, or if the occupant tries to lean forward too quickly, the seat belt retractor will lock into position. In certain frontal collisions, the pre-tensioner will activate and pull the seat belt into tighter contact against the occupant's body.

If the system senses excessive seat belt tension on the driver or passenger's seat belt when the pre-tensioner activates, the load limiter inside the pre-tensioner will release some of the pressure on the affected seat belt.



The seat belt pre-tensioner system consists mainly of the following components. Their locations are shown in the illustration:

- 1. SRS air bag warning light
- 2. Retractor pre-tensioner assembly
- 3. SRS control module

## A WARNING

To obtain maximum benefit from a pre-tensioner seat belt:

- 1. The seatbelt must be working correctly and adjusted to the proper position. Please read and follow all of the important information and precautions about your vehicle's occupant safety features – including seat belts and air bags – that are provided in this manual.
- 2. Be sure you and your passengers always wear seat belts and wear them properly.

### **\* NOTICE**

• Both the driver's and front passenger's pre-tensioner seat belts will be activated in certain frontal collisions. The pre-tensioner seat belts can be activated where the frontal collision is severe enough, together with the air bags.

The pre-tensioners will not be activated if the seat belts are not being worn at the time of the collision.

- When the pre-tensioner seat belts are activated, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartment. These are normal operating conditions and are not hazardous.
- Although it is harmless, the fine dust may cause skin irritation and should not be breathed for prolonged periods. Wash all exposed skin areas thoroughly after an accident in which the pre-tensioner seat belts were activated.

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- Because the sensor that activates the SRS air bag is connected with the pre-tensioner seat belt, the SRS air bag warning light the on the instrument panel will illuminate for approximately 6 seconds after the ignition key has been turned to the "ON" position, and then it should turn off.
- If the pre-tensioner seat belt is not working properly, this warning light will illuminate even if there is no malfunction of the SRS air bag. If the SRS air bag warning light does not illuminate when the ignition key is turned to "ON", or if it remains illuminated after illuminating for approximately 6 seconds, or if it illuminates while the vehicle is being driven, please have an authorized Hyundai dealer inspect the pre-tensioner seat belt or SRS air bag system as soon as possible.

## **A** WARNING

- Pre-tensioners are designed to operate only one time. After activation, pre-tensioner seat belts must be replaced. All seat belts, of any type, should always be replaced after they have been worn during a collision.
- The pre-tensioner seat belt assembly mechanisms become hot during activation. Do not touch the pre-tensioner seat belt assemblies for several minutes after they have been activated.
- Do not attempt to inspect or replace the pre-tensioner seat belts yourself. This must be done by an authorized Hyundai dealer.
- Do not strike the pre-tensioner seat belt assemblies.
- Do not attempt to service or repair the pre-tensioner seat belt system in any manner.

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### (Continued)

- Improper handling of the pre-tensioner seat belt assemblies, and failure to heed the warnings not to strike, modify, inspect, replace, service or repair the pre-tensioner seat belt assemblies may lead to improper operation or inadvertent activation and serious injury.
- Always wear the seat belts when driving or riding in a motor vehicle.

### Seat belt precautions

# A WARNING

All occupants of the vehicle must wear their seat belts at all times. Seat belts and child restraints reduce the risk of serious or fatal injuries for all occupants in the event of a collision or sudden stop. Without a seat belt, occupants could be shifted too close to a deploying air bag, strike the interior structure or be thrown from the vehicle. Properly worn seat belts greatly reduce these hazards. Even with advanced air bags. unbelted occupants can be severely injured by a deploying air bag. Always follow the precautions about seat belts, air bags and occupant seat contained in this manual.

### Infant or small child

All 50 states have child restraint laws. You should be aware of the specific requirements in your state. Child and/or infant seats must be properly placed and installed in the rear seat. For more information about the use of these restraints, refer to "Child restraint system" in this section.

# **A** WARNING

Every person in your vehicle needs to be properly restrained at all times, including infants and children. Never hold a child in your arms or lap when riding in a vehicle. The violent forces created during a crash will tear the child from your arms and throw the child against the interior. Always use a child restraint appropriate for your child's height and weight.

# **\* NOTICE**

Small children are best protected from injury in an accident when properly restrained in the rear seat by a child restraint system that meets the requirements of the the Federal Motor Vehicle Safety Standards. Before buying any child restraint system, make sure that it has a label certifying that it meets Federal Motor Vehicle Safety Standard 213. The restraint must be appropriate for your child's height and weight. Check the label on the child restraint for this information. Refer to "Child restraint system" in this section.

### Larger children

Children who are too large for child restraint systems should always occupy the rear seat and use the available lap/shoulder belts. The lap portion should be fastened snug on the hips and as low as possible. Check belt fit periodically. A child's sauirming could put the belt out of position. Children are afforded the most safety in the event of an accident when they are restrained by a proper restraint system in the rear seat. If a larger child (over age 13) must be seated in the front seat, the child should be securely restrained by the available lap/shoulder belt and the seat should be placed in the rearmost position. Children under the age of 13 should be restrained securely in the rear seat. NEVER place a child under the age of 13 in the front seat. NEVER place a rear facing child seat in the front seat of a vehicle.

If the shoulder belt portion slightly touches the child's neck or face, try placing the child closer to the center of the vehicle. If the shoulder belt still touches their face or neck they need to be returned to a child restraint system. In addition, aftermarket devices are available from independent manufacturers which help pull the shoulder belt down and away from the child's face or neck.

# WARNING - Shoulder belts on small children

- Never allow a shoulder belt to be in contact with a child's neck or face while the vehicle is in motion.
- If seat belts are not properly worn and adjusted on children, there is a risk of death or serious injury.

### Pregnant women

The use of a seat belt is recommended for pregnant women to lessen the chance of injury in an accident. When a seat belt is used, the lap belt portion should be placed as low and snugly as possible on the hips, not across the abdomen. For specific recommendations, consult a physician.

### Injured person

A seat belt should be used when an injured person is being transported. When this is necessary, you should consult a physician for recommendations.

### One person per belt

Two people (including children) should never attempt to use a single seat belt. This could increase the severity of injuries in case of an accident.

### Do not lie down

To reduce the chance of injuries in the event of an accident and to achieve maximum effectiveness of the restraint system, all passengers should be sitting up and the front seats should be in an upright position when the car is moving. A seat belt cannot provide proper protection if the person is lying down in the rear seat or if the front seat is in a reclined position.

# A WARNING

Riding with a reclined seatback increases your chance of serious or fatal injuries in the event of a collision or sudden stop. The protection of your restraint system (seat belts and air bags) is greatly reduced by reclining your seat. Seat belts must be snug against your hips and chest to work properly. The more the seatback is reclined, the greater the chance that an occupant's hips will slide under the lap belt causing serious internal injuries or the occupant's neck could strike the shoulder belt. **Drivers and passengers should** always sit well back in their seats, properly belted, and with the seatbacks upright.

# Care of seat belts

Seat belt systems should never be disassembled or modified. In addition, care should be taken to assure that seat belts and belt hardware are not damaged by seat hinges, doors or other abuse.

# A WARNING

When you return the rear seatback to its upright position after the rear seatback was folded down, be careful not to damage the seat belt webbing or buckle. Be sure that the webbing or buckle does not get caught or pinched in the rear seat. A seat belt with damaged webbing or buckle will not be as strong and could possibly fail during a collision or sudden stop, resulting in serious injury.

### Periodic inspection

It is recommended that all seat belts be inspected periodically for wear or damage of any kind. Parts of the system that are damaged should be replaced as soon as possible.

### Keep belts clean and dry

Seat belts should be kept clean and dry. If belts become dirty, they can be cleaned by using a mild soap solution and warm water. Bleach, dye, strong detergents or abrasives should not be used because they may damage and weaken the fabric.

### When to replace seat belts

Entire in-use seat belt assembly or assemblies should be replaced if the vehicle has been involved in an accident. This should be done even if no damage is visible. Additional questions concerning seat belt operation should be directed to an authorized Hyundai dealer.

# CHILD RESTRAINT SYSTEM

Children riding in the car should sit in the rear seat and must always be properly restrained to minimize the risk of injury in an accident, sudden stop or sudden maneuver. According to accident statistics, children are safer when properly restrained in the rear seats than in the front seat. Larger children not in a child restraint should use one of the seat belts provided.

You should be aware of the specific requirements in your state. Child and/or infant safety seats must be properly placed and installed in the rear seat. You must use a commercially available child restraint system that meets the requirements of the Federal Motor Vehicle Safety Standards (FMVSS).

Children could be injured or killed in a crash if their restraints are not properly secured. For small children and babies, a child seat or infant seat must be used. Before buying a particular child restraint system, make sure it fits your car seat and seat belts, and fits your child. Follow all the instructions provided by the manufacturer when installing the child restraint system.

# **A** WARNING

- A child restraint system must be placed in the rear seat. Never install a child or infant seat on the front passenger's seat. Should an accident occur and cause the passenger side air bag to deploy, it could severely injure or kill an infant or child seated in an infant or child seat. Thus only use a child restraint in the rear seat of your vehicle.
- A seat belt or child restraint system can become very hot if it is left in a closed vehicle on a sunny day, even if the outside temperature does not feel hot. Be sure to check the seat cover and buckles before placing a child there.
- When the child restraint system is not in use, store it in the trunk or fasten it with a seat belt so that it will not be thrown forward in the case of a sudden stop or an accident.
- Children may be seriously injured or killed by an inflating air bag. All children, even those too large for child restraints, must ride in the rear seat.

# A WARNING

To reduce the chance or serious or fatal injuries:

- Children of all ages are safer when restrained in the rear seat. A child riding in the front passenger seat can be forcefully struck by an inflating air bag resulting in serious or fatal injuries.
- Always follow the instructions for installation and use of the child restraint maker.
- Always make sure the child seat is secured properly in the car and your child is securely restrained in the child seat.
- Never hold a child in your arms or lap when riding in a vehicle. The violent forces created during a crash will tear the child from your arms and throw the child against the car's interior.
- Never put a seat belt over yourself and a child. During a crash, the belt could press deep into the child causing serious internal injuries.

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## (Continued)

- Never leave children unattended in a vehicle – not even for a short time. The car can heat up very quickly, resulting in serious injuries to children inside. Even very young children may inadvertently cause the vehicle to move, entangle themselves in the windows, or lock themselves or others inside the vehicle.
- Never allow two children, or any two persons, to use the same seat belt.
- Children often squirm and reposition themselves improperly. Never let a child ride with the shoulder belt under their arm or behind their back. Always properly position and secure children in rear seat.
- Never allow a child to stand-up or kneel on the seat or floorboard of a moving vehicle. During a collision or sudden stop, the child can be violently thrown against the vehicles interior, resulting in serious injury.

(Continued)

- Never use an infant carrier or a child safety seat that "hooks" over a seatback, it may not provide adequate security in an accident.
- Seat belts can become very hot, especially when the car is parked in direct sunlight. Always check seat belt buckles before fastening them over a child.
- Always store or secure a child seat, even when it is not in use. During a collision or sudden stop, the child seat could be thrown inside the vehicle.

### Rearward-facing child restraint system



Forward-facing child restraint system



## Using a child restraint system

For small children and babies, the use of a child seat or infant seat is required. This child seat or infant seat should be of appropriate size for the child and should be installed in accordance with the manufacturer's instructions. It is further required that the seat be placed in the vehicle's rear seat. Your vehicle is provided with child restraint hook holders for installing the child seat or infant seat.



Placing a passenger seat belt into the auto lock mode

The use of the auto lock mode will ensure that the normal movement of the child in the vehicle does not cause the seat belt to be pulled out and loosen the firmness of its hold on the child restraint system. To secure a child restraint system, use the following procedure.

To install a child restraint system on the outboard or center rear seats, do the following:

1. Place the child restraint system in the seat and route the lap/shoulder belt around or through the restraint, following the restraint manufacturer's instructions. Be sure the seat belt webbing is not twisted.



Fasten the lap/shoulder belt latch into the buckle. Listen for the distinct "click" sound.

Position the release button so that it is easy to access in case of an emergency.

# A WARNING

A child can be seriously injured or killed in a collision if the child restraint is not properly anchored to the car and the child is not properly restrained in the child restraint. Always follow the child seat manufacturer's instructions for installation and use.



3. Pull the shoulder portion of the seat belt all the way out. When the shoulder portion of the seat belt is fully extended, it will shift the retractor to the "Auto Lock" (child restraint) mode.



4. Slowly allow the shoulder portion of the seat belt to retract and listen for an audible "clicking" or "ratcheting" sound. This indicates that the retractor is in the "Auto Lock" mode. If no distinct sound is heard, repeat steps 3 and 4.



- Remove as much slack from the belt as possible by pushing down on the child restraint system while feeding the shoulder belt back into the retractor.
- 6. Push and pull on the child restraint system to confirm that the seat belt is holding it firmly in place. If it is not, release the seat belt and repeat steps 2 through 6.
- 7. Double check that the retractor is in the "Auto Lock" mode by attempting to pull more of the seat belt out of the retractor. If you cannot, the retractor is in the "Auto Lock" mode.

To remove the child restraint, press the release button on the buckle and then pull the lap/shoulder belt out of the restraint and allow the seat belt to retract fully.

# WARNING - Auto lock mode

The lap/shoulder belt automatically returns to the "emergency lock mode" whenever the belt is allowed to retract fully. Therefore, the preceding seven steps must be followed each time a child restraint is installed.

If the retractor is not in the Automatic Locking mode, the child restraint can move when your vehicle turns or stops suddenly. A child can be seriously injured or killed if the child restraint is not properly anchored to the car, including setting the retractor to the Automatic Locking mode.

When the seat belt is allowed to retract to its fully stowed position, the retractor will automatically switch from the "Auto Lock" mode to the emergency lock mode for normal adult usage.



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Securing a child restraint seat with "Tether Anchor" system Child restraint hook holders are located on the shelf behind the rear seats.



1. Route the child restraint seat strap over the seatback.

For vehicles with adjustable headrest, route the tether strap under the headrest and between the headrest posts, otherwise route the tether strap over the top of the seatback.

2. Connect the tether strap hook to the appropriate child restraint hook holder and tighten to secure the seat.

# A WARNING

When using the vehicle's "Tether Anchor" system to install a child restraint system in the rear seat, all unused vehicle rear seat belt metal latch plates or tabs must be latched securely in their seat belt buckles and the seat belt webbing must be retracted behind the child restraint to prevent the child from reaching and taking hold of unretracted seat belts. Unlatched metal latch plates or tabs may allow the child to reach the unretracted seat belts which may result in strangulation and a serious injury or death to the child in the child restraint.

# **WARNING -** Tether strap

- A child can be seriously injured or killed in a collision if the child restraint is not properly anchored. Always follow the child seat manufacturer's instructions for installation and use.
- Never mount more than one child restraint to a single tether or to a single lower anchorage point. The increased load caused by multiple seats may cause the tethers or anchorage points to break, causing serious injury or death.

# A WARNING

- Child restraint anchorage
- Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.
- The tether strap may not work properly if attached somewhere other than the correct tether anchor.

# WARNING - Child restraint check

Check that the child restraint system is secure by pushing and pulling it in different directions. Incorrectly fitted child restraints may swing, twist, tip or separate causing death or serious injury.

Follow the child seat manufacturer's instructions to properly install child restraint seats with ISOFIX or ISOFIX-compatible attachments.

Once you have installed the ISOFIX child restraint, assure that the seat is properly attached to the ISOFIX and tether anchors. Also, test the child restraint seat before you place the child in it. Tilt the seat from side to side. Also try to tug the seat forward. Check to see if the anchors hold the seat in place.

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When using the vehicle's "ISOFIX" system to install a child restraint system in the rear seat, all unused vehicle rear seat belt metal latch plates or tabs must be latched securely in their seat belt buckles and the seat belt webbing must be retracted behind the child restraint to prevent the child from reaching and taking hold of unretracted seat belts. Unlatched metal latch plates or tabs may allow the child to reach the unretracted seat belts which may result in strangulation and a serious injury or death to the child in the child restraint.

Child seat lower anchors Some child seat manufacturers make

child restraint seats that are labeled as International Standards Organization Fixed (ISOFIX) or ISOFIX-compatible child restraint seats. These seats include two rigid or webbing mounted attachments that connect to two ISOFIX anchors at specific seating positions in your vehicle. This type of child restraint seat eliminates the need to use seat belts to attach the child seat for forwardfacing child restraint seats in the rear seats. ISOFIX anchors have been provided in your vehicle. The ISOFIX anchors are located in the left and right outboard rear seating positions. Their locations are shown in the illustration. There is no ISOFIX anchor provided for the center rear seating position.

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The ISOFIX anchors are located between the seatback and the seat cushion of the rear seat left and right outboard seating positions.

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# WARNING - ISOFIX Anchors

- A child can be seriously injured or killed in a collision if the child restraint is not properly anchored. Always follow the child seat manufacturer's instructions for installation and use.
- Never install a child restraint using the ISOFIX anchors at the center position of the rear seat. In a crash, the ISOFIX anchors may break if a car seat is improperly placed in the center position resulting in serious or fatal injuries. Only place a ISOFIX or ISOFIX-compatible child seat in the left or right out-board rear seating positions (as shown) to the appropriate ISOFIX anchors provided.
- Never mount more than one child restraint to a single tether or to a single lower anchorage point. The increased load caused by multiple seats may cause the tethers or anchorage points to break, causing serious injury or death.

# A WARNING

Install the child restraint seat fully rearward against the seatback with the seatback in a vertical position, not reclined.

# AIR BAG - ADVANCED SUPPLEMENTAL RESTRAINT SYSTEM (IF EQUIPPED)



## SRS components and functions

The SRS consists of the following components:

- 1. Front Impact Sensors
- 2. "PASSENGER AIR BAG OFF" Indicator (Front passenger's seat only)
- 3. SRS "AIR BAG" warning light
- 4. Passenger's Air bag Module
- 5. Driver's Air Bag Module
- 6. SRS Control Module (SRSCM)
- 7. Occupant Classification Svstem (Front passenger's seat only)
- 8. Driver's Seat Track Position Sensor
- 9. Driver's and Front Passenger's Seat Belt Buckle Sensors
- 10. Side Impact Sensors\*
- 11. Retractor Pre-tensioner Assemblies
- 12. Side Air Bag Modules\*
- 13. Curtain Air bag Modules\*
- \* : If equipped

The SRSCM continually monitors all SRS components while the ignition switch is ON to determine if a crash impact is severe enough to require air bag deployment or pre-tensioner seat belt deployment.

The SRS AIR BAG warning light on the instrument panel will illuminate for about 6 seconds after the ignition switch is turned to the ON position, after which the AIR BAG warning light should go out.

If any of the following conditions occurs. this indicates a malfunction of the SRS. Have an authorized Hvundai dealer inspect the air bag system as soon as possible.

- · The light does not turn on briefly when you turn the ignition ON.
- The light stays on after illuminating for approximately 6 seconds.
- · The light comes on while the vehicle is in motion.

Driver's front air bag (1)



The air bag modules are located both in the center of the steering wheel and in the front passenger's panel above the glove box. When the SRSCM detects a sufficiently severe impact to the front of the vehicle, it will automatically deploy the front air bags.



Upon deployment, tear seams molded directly into the pad covers will separate under pressure from the expansion of the air bags. Further opening of the covers then allows full inflation of the air bags.



A fully inflated air bag, in combination with a properly worn seat belt, slows the driver's or the passenger's forward motion, reducing the risk of head and chest injury.

After complete inflation, the air bag immediately starts deflating, enabling the driver to maintain forward visibility and the ability to steer or operate other controls.



# A WARNING

- Do not install or place any accessories (drink holder, cassette holder, sticker, etc.) on the front passenger's panel above the glove box in a vehicle with a passenger's air bag. Such objects may become dangerous projectiles and cause injury if the passenger's air bag inflates.
- When installing a container of liquid air freshener inside the vehicle, do not place it near the instrument cluster nor on the instrument panel surface.

It may become dangerous projectiles and cause injury if the passenger's air bag inflates.

# **A** WARNING

 If an air bag deploys, there may be a loud noise followed by a fine dust released in the vehicle. These conditions are normal and are not hazardous - the air bags are packed in this fine powder. The dust generated during air bag deployment may cause skin or eye irritation as well as aggravate asthma for some persons. Always wash all exposed skin areas thoroughly with lukewarm water and a mild soap after an accident in which the air bags were deployed.

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- The SRS can function only when the ignition key is in the "ON" position. If the SRS "AIR BAG" warning light does not illuminate, or continuously remains on after illuminating for about 6 seconds when the ignition key is turned to the ON position, or after the engine is started, comes on while driving, the SRS is not working properly. If this occurs, have your vehicle immediately inspected by an authorized Hyundai dealer.
- Before you replace a fuse or disconnect a battery terminal, turn the ignition key to the LOCK position and remove the ignition key. Never remove or replace the air bag related fuse(s) when the ignition key is in the ON position. Failure to heed this warning will cause the SRS AIR BAG warning light to illuminate.



# **Occupant classification system**

Your vehicle is equipped with an occupant classification system in the front passenger's seat.

The occupant classification system is designed to detect the presence of a properly-seated front passenger and determine if the passenger's front air bag should be enabled (may inflate) or not. The driver's front air bag is not affected or controlled by the occupant classification system. If the front passenger seat is occupied by a person that the system determines to be of adult size, and he/she sits properly (sitting upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor), the "PASSENGER AIR BAG OFF" indicator will be turned off and the front passenger's air bag will be able to inflate, if necessary, in frontal crashes.

You will find the "PASSENGER AIR BAG OFF" indicator on the center facia panel. This system detects the conditions 1~4 in the following table and activates or deactivates front passenger air bag based on these conditions.

Indicator/Warning light Devices Condition detected by the "PASSENGER SRS warning Front passenoccupant classi-AIR BAG OFF" Side air bag Curtain air bag liaht ger air bag fication system indicator light 1. Adult \*1 Off Off Activated Activated Activated 2. Child\*2 or Off Deactivated Activated Activated child restraint On svstem\*3 Deactivated Activated Off Deactivated 3. Unoccupied On 4. There is a Activated On Activated Activated Off malfunction in the system

Condition and operation in the front passenger occupant classification system

- \*1) The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may recognize him/her as a child depending on his/her physique and posture.
- \*2) Do not allow children to ride in the front passenger seat. When a larger child who has outgrown a child restraint system sits in the front passenger seat, the system may recognize him/her as an adult depending on his/her physique or posture.
- \*3) Never install a child restraint system on the front passenger seat.

# A WARNING

Riding in an improper position or placing weight on the front passenger's seat when it is unoccupied by a passenger adversely affects the occupant classification system (OCS).

# Safety system of your vehicle

# (Continued)



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 Never put a heavy load in the front passenger seat or seatback pocket.



- Never sit with hips shifted towards the front of the seat.



- Never place feet on the dashboard.



 Never place feet on the front passenger seatback.



- Never excessively recline the front passenger seatback.



- Never lean on the center console.
- Never sit on one side of the front passenger seat.



When an adult is seated in the front passenger seat, if the "PASSENGER AIR BAG OFF" indicator is on, turn the ignition key to "LOCK" and ask the passenger to sit properly (sitting upright with the seat back in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor). Restart the engine and have the person remain in that position. This will allow the system to detect the person and to enable the passenger air bag. If the "PASSENGER AIR BAG OFF" indicator is still on, ask the passenger to move to the rear seat.

# **A** WARNING

Do not allow a passenger to ride in the front seat when the "PASSEN-GER AIR BAG OFF" indicator is illuminated, because the air bag will not deploy in the event of a crash. If the "PASSENGER AIR BAG OFF" indicator remains illuminated after the passenger repositions themselves properly and the car is restarted, we recommend that passenger move to the rear seat because the passenger's front air bag will not deploy.

Front seat passengers must stay properly seated to avoid serious injury from a deploying air bag.

# **\* NOTICE**

The "PASSENGER AIR BAG OFF" indicator illuminates for about 4 seconds after the ignition key is turned to the "ON" position or after the engine is started. If the front passenger seat is occupied, the occupant classification sensor will then classify the front passenger after several more seconds.

# A WARNING

Do not put a heavy load in the front passenger seatback pocket or on the front passenger seat. Do not hang onto the front passenger seat. Do not hang any items such as seatback table on the front passenger seatback. Do not place feet on the front passenger seatback. Do not place any items under the front passenger seat. Any of these could interfere with proper sensor operation.

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If the occupant classification svstem is not working properly, the SRS air bag warning light All on the instrument panel will illuminate because the passenger's front air bag is connected with the occupant classification system. If there is a malfunction of the occupant classification system, the "PASSENGER AIR BAG OFF" indicator will not illuminate and the passenger's front air bag will inflate in frontal impact crashes even if there is no occupant in the front passenger's seat. If the SRS air bag warning light does not illuminate when the ignition key is turned to the "ON" position. remains illuminated after approximately 6 seconds when the ignition key is turned to the "ON" position, or if it illuminates while the vehicle is being driven, have an authorized Hyundai dealer inspect the occupant classification system and the SRS air bag system as soon as possible.

# A WARNING

- Even though your vehicle is equipped with the occupant classification system, never install a child restraint system in the front passenger's seat. A deploying air bag can forcefully strike a child resulting in serious injuries or death. Any child under 13 years of age should ride in the rear seat. Children too large for child restraints should use the available lap/shoulder belts. No matter what type of crash, children of all ages are safer when restrained in the rear seat.
- If the "PASSENGER AIR BAG OFF" indicator is illuminated when the front passenger's seat is occupied by an adult and he/she sits properly (sitting upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor), have that person sit in the rear seat.

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### (Continued)

- Do not modify or replace the front passenger seat. Don't place anything on or attach anything such as a blanket or after market seat heater to the front passenger seat. This can adversely affect the occupant classification system.
- Do not sit on sharp objects such as tools when occupying the front passenger seat. This can adversely affect the occupant classification system.
- Do not use accessory seat covers on the front seats.

### (Continued)

- Accident statistics show that children are safer if they are restrained in the rear, as opposed to the front seat. It is recommended that child restraints be secured in a rear seat, including an infant riding in a rear-facing infant seat, a child riding in a forward-facing child seat and an older child riding in a booster seat.
- Air bags can only be used once have an authorized Hyundai dealer replace the air bag immediately after deployment.
- A smaller-stature adult who is not seated correctly (for example: seat excessively reclined, leaning on the center console, or hips shifted forward in the seat) can cause a condition where the advanced frontal air bag system senses less weight than if the occupant were seated properly (sitting upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor).

### (Continued)

This condition can result in an adult potentially being misclassified and illumination of the "PAS-SENGER AIR BAG OFF" indicator.



# Driver's and passenger's front air bag

Your vehicle is equipped with a Supplemental Restraint (Air bag) System. The indications of the system's presence are the letters "SRS AIR BAG" embossed on the air bag pad cover in the steering wheel and the passenger's side front panel pad above the glove box.

The SRS consists of air bags installed under the pad covers in the center of the steering wheel and the passenger's side front panel above the glove box.

Passenger's front air bag

The purpose of the SRS is to provide the vehicle's driver and/or the front passenger with additional protection than that offered by the seat belt system alone in case of a frontal impact of sufficient severity. The SRS uses sensors to gather information about the driver's seat position, the driver's and front passenger's seat belt usage and impact severity. The driver's seat track position sensors, which are installed on the seat track, determine if the seat is fore or aft of a reference position. The seat belt buckle sensors determine if the driver and front passenger's seat belts are fastened. These sensors provide the ability to control the SRS deployment based on how close the driver's seat is to the steering wheel, whether or not the seat belts are fastened, and how severe the impact is.

The advanced SRS offers the ability to control the air bag inflation with two levels. A first stage level is provided for moderate-severity impacts. A second stage level is provided for more severe impacts.

According to the impact severity, seating position and seat belt usage, the SRSCM(SRS Control Module) controls the air bag inflation. Failure to properly wear seat belts can increase the risk or severity of injury in an accident. Additionally, your vehicle is equipped with an occupant classification system in the front passenger's seat. The occupant classification system detects the presence of a passenger in the front passenger's seat and will turn off the front passenger's air bag under certain conditions. For more detail, see "Occupant Classification System" in this section.

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If a seat track position sensor or an occupant classification system is not working properly, the SRS air bag warning light A on the instrument panel will illuminate because the SRS air bag warning light is connected with the seat track position sensor and the occupant classification system. If the SRS air bag warning light does not illuminate when the ignition key is turned to the "ON" position, remains illuminated after approximately 6 seconds when the ignition key is turned to the "ON" position. or if it illuminates while the vehicle is being driven, have an authorized Hyundai dealer inspect the advanced SRS air bag system as soon as possible.

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- Modification to the seat structure can adversely affect the seat track position sensor and cause the air bag to deploy at a different level than should be provided.
- Do not place any objects underneath the front seats as they could damage the seat track position sensor or interfere with the occupant classification system.
- Do not place any objects that may cause magnetic fields near the front seat. These may cause a malfunction of the seat track position sensor.

# **\* NOTICE**

- Be sure to read information about the SRS on the labels provided on the sun visor and in the glove box.
- Advanced air bags are combined with pre-tensioner seat belts to help provide enhanced occupant protection in frontal crashes. Front air bags are not intended to deploy in collisions in which sufficient protection can be provided by the pre-tensioner seat belt.
- If you are considering modification of your vehicle due to a disability, please contact the Hyundai Customer Assistance Center at 1-800-633-5151.

# A WARNING

Always use seat belts and child restraints – every trip, every time, everyone! Air bags inflate with considerable force and in the blink of an eye. Seat belts help keep occupants in proper position to obtain maximum benefit from the air bag. Even with advanced air bags, improperly and unbelted occupants can be severely injured when the air bag inflates. Always follow the precautions about seat belts, air bags and occupant safety contained in this manual.

To reduce the chance of serious or fatal injuries and receive the maximum safety benefit from your restraint system:

- Never place a child in any child or booster seat in the front seat.
- ABC Always Buckle Children in the back seat. It is the safest place for children of any age to ride.
- Front and side air bags can injure occupants improperly positioned in the front seats.

### (Continued)

- Move your seat as far back as practical from the front air bags, while still maintaining control of the vehicle.
- You and your passengers should never sit or lean unnecessarily close to the air bags. Improperly positioned drivers and passengers can be severely injured by inflating air bags.
- Never lean against the door or center console always sit in an upright position.
- Do not allow a passenger to ride in the front seat when the "PAS-SENGER AIR BAG OFF" indicator is illuminated, because the air bag will not deploy in the event of a moderate or severe frontal crash.

(Continued)

### (Continued)

- No objects should be placed over or near the air bag modules on the steering wheel, instrument panel, and the front passenger's panel above the glove box, because any such object could cause harm if the vehicle is in a crash severe enough to cause the air bags to deploy.
- Never place covers, blankets or aftermarket seat warmers on the passenger seat as these may interfere with the occupant classification system.
- Do not tamper with or disconnect SRS wiring or other components of the SRS system. Doing so could result in injury, due to accidental deployment of the air bags or by rendering the SRS inoperative.
- If the SRS air bag warning light remains illuminated while the vehicle is being driven, have an authorized Hyundai dealer inspect the air bag system as soon as possible.

(Continued)

# (Continued)

- Air bags can only be used once have an authorized Hyundai dealer replace the air bag immediately after deployment.
- The SRS is designed to deploy the front air bags only when an impact is sufficiently severe and when the impact angle is less than 30° from the forward longitudinal axis of the vehicle. Additionally, the air bags will only deploy once. Seat belts must be worn at all times.
- Front air bags are not intended to deploy in side-impact, rearimpact or rollover crashes. In addition, front air bags will not deploy in frontal crashes below the deployment threshold.



Rollover



### (Continued)

- Even though your vehicle is equipped with the occupant classification system, do not install a child restraint system in the front passenger seat position. A child restraint system must never be placed in the front seat. The infant or child could be severely injured or killed by an air bag deployment in case of an accident.
- Children younger than 13 years must always be properly restrained in the rear seat. Never allow children to ride in the front passenger seat. If a child over 13 must be seated in the front seat, he or she must be properly belted and the seat should be moved as far back as possible.
- For maximum safety protection in all types of crashes, all occupants including the driver should always wear their seat belts whether or not an air bag is also provided at their seating position to minimize the risk of severe injury or death in the event of a crash. Do not sit or lean unnecessarily close to the air bag while the vehicle is in motion.

### (Continued)

- Sitting improperly or out of position can result in serious or fatal injury in a crash. All occupants should sit upright with the seat back in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor until the vehicle is parked and the ignition key is removed.
- The SRS air bag system must deploy very rapidly to provide protection in a crash. If an occupant is out of position because of not wearing a seat belt, the air bag may forcefully contact the occupant causing serious or fatal injuries.



# Side air bag (if equipped)

Your vehicle is equipped with a side air bag in each front seat. The purpose of the air bag is to provide the vehicle's driver and/or the front passenger with additional protection than that offered by the seat belt alone. The side air bags are designed to deploy only during certain side-impact collisions, depending on the crash severity, angle, speed and point of impact. The side air bags are not designed to deploy in all side impact situations.

# **A** WARNING

- The side air bag is supplemental to the driver's and the passenger's seat belt systems and is not a substitute for them. Therefore your seat belts must be worn at all times while the vehicle is in motion. The air bags deploy only in certain side impact conditions severe enough to cause significant injury to the vehicle occupants.
- For best protection from the side air bag system and to avoid being injured by the deploying side air bag, both front seat occupants should sit in an upright position with the seat belt properly fastened. The driver's hands should be placed on the steering wheel at the 9:00 and 3:00 positions. The passenger's arms and hands should be placed on their laps. (Continued)

- Do not use any accessory seat covers.
- Use of seat covers could reduce or prevent the effectiveness of the system.
- Do not install any accessories on the side or near the side air bag.
- Do not place any objects over the air bag or between the air bag and yourself.
- Do not place any objects (an umbrella, bag, etc.) between the front door and the front seat. Such objects may become dangerous projectiles and cause injury if the supplemental side air bag inflates.
- To prevent unexpected deployment of the side air bag that may result in personal injury, avoid impact to the side impact sensor when the ignition key is on.
- If seat or seat cover is damaged, have the vehicle checked and repaired by an authorized Hyundai dealer. Inform them that your vehicle is equipped with side air bags and an occupant classification system.



Curtain air bag (if equipped)

Curtain air bags are located along both sides of the roof rails above the front and rear doors.

They are designed to help protect the heads of the front seat occupants and the rear outboard seat occupants in certain side impact collisions.

The curtain air bags are designed to deploy only during certain side impact collisions, depending on the crash severity, angle, speed and impact. The curtain air bags are not designed to deploy in all side impact situations, collisions from the front or rear of the vehicle or in most rollover situations.

# A WARNING

- In order for side and curtain air bags to provide its best protection, both front seat occupants and both outboard rear occupants should sit in an upright position with the seat belts properly fastened. Importantly, children should sit in a proper child restraint system in the rear seat.
- When children are seated in the rear outboard seats, they must be seated in the proper child restraint system. Make sure to put the child restraint system as far away from the door side as possible, and secure the child restraint system in a locked position.

(Continued)

## (Continued)

- Do not allow the passengers to lean their heads or bodies onto doors, put their arms on the doors, stretch their arms out of the window, or place objects between the doors and passengers when they are seated on seats equipped with side and/or curtain air bags.
- Never try to open or repair any components of the side curtain air bag system. This should only be done by an authorized Hyundai dealer.

Failure to follow the above mentioned instructions can result in injury or death to the vehicle occupants in an accident. Why didn't my air bag go off in a collision? (Inflation and non-inflation conditions of the air bag) There are many types of accidents in which the air bag would not be expected to provide additional protection. These include rear impacts, second or third collisions in multiple impact accidents, as well as low speed impacts. In other words, just because your vehicle is damaged and even if it is totally unusable, don't be surprised that the air bags did not inflate.



Air bag collision sensors (1) SRS control module (2) Front impact sensor OHD036026/OHD036028/OHD036029/OHD036030

(3) Side impact sensor (if equipped)

# A WARNING

• Do not hit or allow any objects to impact the locations where air bag or sensors are installed.

This may cause unexpected air bag deployment, which could result in serious personal injury or death.

 If the installation location or angle of the sensors is altered in any way, the air bags may deploy when they should not or they may not deploy when they should, causing severe injury or death. Therefore, do not try to perfore in

maintenance on or around the air bag sensors. Have the vehicle checked and repaired by an authorized Hyundai dealer.

(Continued)

### (Continued)

- Problems may arise if the sensor installation angles are changed due to the deformation of the front bumper, body or B pillar where side collision sensors are installed. Have the vehicle checked and repaired by an authorized Hyundai dealer.
- Your vehicle has been designed to absorb impact and deploy the air bag(s) in certain collisions. Installing aftermarket bumper guards or replacing a bumper with non-genuine parts may adversely affect your vehicle's collision and air bag deployment performance.



Air bag inflation conditions Front air bag

Front air bags are designed to inflate in a frontal collision depending on the intensity, speed or angles of impact of the front collision - generally from an area a little to the left to a little to the right of straight ahead.



Side and/or air bags (if equipped) Side and/or curtain air bags are designed to inflate when an impact is detected by side collision sensors depending on the strength, speed or angles of impact resulting from a side impact collision or rollover. Although the front air bags (driver's and front passenger's air bags) are designed to inflate only in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient impact. Side air bags (side and/or curtain air bags) are designed to inflate only in side impact collisions, but they may inflate in other collisions if the side impact sensors detect a sufficient impact.

If the vehicle chassis is impacted by bumps or objects on unimproved roads or sidewalks, air bags may deploy. Drive carefully on unimproved roads or on surfaces not designed for vehicle traffic to prevent unintended air bag deployment.



Air bag non-inflation conditions

 In certain low-speed collisions the air bags may not deploy. The air bags are designed not to deploy in such cases because they may not provide benefits beyond the protection of the seat belts in such collisions.



• Frontal air bags are not designed to inflate in rear collisions, because occupants are moved backward by the force of the impact. In this case, inflated air bags would not be able to provide any additional benefit.



 Front air bags may not inflate in side impact collisions, because occupants move to the direction of the collision, and thus in side impacts, frontal air bag deployment would not provide additional occupant protection.

However, side or curtain air bags may inflate depending on the intensity, vehicle speed and angles of impact.



 In a slant or angled collision, the force of impact may direct the occupants in a direction where the air bags would not be able to provide any additional benefit, and thus the sensors may not deploy any air bags.





- · Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to "ride" under a vehicle with a higher ground clearance. Air bags may not inflate in this "under-ride" situation because deceleration forces that are detected by sensors may be significantly reduced by such "under-ride" collisions.
- · Air bags may not inflate in rollover accidents because air bag deployment would not provide protection to the occupants.

However, side and/or curtain air bags may inflate when the vehicle is rolled over by a side impact collision, if the vehicle is equipped with side air bags and curtain air bags.



· Air bags may not inflate if the vehicle collides with objects such as utility poles or trees, where the point of impact is concentrated to one area and the full force of the impact is not delivered to the sensors.

# How does the air bag system operate

- Air bag only operates when the ignition switch is turned to ON or START position.
- Air bags inflate instantly in the event of serious frontal or side collision (if equipped with side air bag or curtain air bag) in order to help protect the occupants from serious physical injury.
- There is no single speed at which the air bags will inflate.

Generally, air bags are designed to inflate by the severity of a collision and its direction. These two factors determine whether the sensors send out an electronic deployment/inflation signal.

- Air bag deployment depends on a number of factors including vehicle speed, angles of impact and the density and stiffness of the vehicles or objects which your vehicle hits in the collision. Though, factors are not limited to those mentioned above.
- The front air bags will completely inflate and deflate in an instant.

It is virtually impossible for you to see the air bags inflate during an accident. It is much more likely that you will simply see the deflated air bags hanging out of their storage compartments after the collision.  In order to help provide protection in a severe collision, the air bags must inflate rapidly. The speed of air bag inflation is a consequence of the extremely short time in which a collision occurs and the need to get the air bag between the occupant and the vehicle structures before the occupant impacts those structures. This speed of inflation reduces the risk of serious or lifethreatening injuries in a severe collision and is thus a necessary part of air bag design.

However, air bag inflation can also cause injuries which normally can include facial abrasions, bruises and broken bones, and sometimes more severe injuries because the inflation speed also causes the air bags to expand with a great deal of force.

• There are even circumstances under which contact with the steering wheel air bag can cause fatal injuries, especially if the occupant is positioned excessively close to the steering wheel.

# **A** WARNING

- To avoid severe personal injury or death caused by deploying air bags in a collision, the driver should sit as far back from the steering wheel air bag as possible (at least 10 inches (250 mm) away). The front passenger should always move their seat as far back as possible and sit back in their seat.
- Air bag inflates instantly in an event of collision, passengers may be injured by the air bag expansion force if they are not in proper position.
- Air bag inflation may cause injuries which normally include facial or bodily abrasions, injuries by the broken glasses or burns by the explosives.

### Noise and smoke

When the air bags inflate, they make a loud noise and they leave smoke and powder in the air inside of the vehicle. This is normal and is a result of the ignition of the air bag inflator. After the air bag inflates, you may feel substantial discomfort in breathing due to the contact of your chest to both the seat belt and the air bag, as well as from breathing the smoke and powder. We strongly urge you to open your doors and/or windows as soon as possible after impact in order to reduce discomfort and prevent prolonged exposure to the smoke and powder.

Though smoke and powder are nontoxic, it may cause irritation to the skin (eyes, nose and throat etc). If this is the case, wash and rinse with the cold water immediately and consult the doctor if the symptom persists.

# **A** WARNING

When the air bags deploy, the air bag related parts in steering wheel and/or instrument panel and/or in both sides of the roof rails above the front and rear doors are very hot. To prevent injury, do not touch the air bag storage area's internal components immediately after an air bag has inflated.



# Installing a child restraint on a front passenger's seat is forbidden

Never place a rear-facing child restraint in the front passenger's seat. If the air bag deploys, it would impact the rear-facing child restraint, causing serious or fatal injury.

In addition, do not place front-facing child restraint in the front passenger's seat either. If the front passenger air bag inflates, it would cause serious or fatal injuries to the child.

# A WARNING

- Never put child restraint in the front passenger's seat. If the front passenger air bag inflates, it would cause serious or fatal injuries.
- When children are seated in the rear outboard seats in which side air bags are equipped, be sure to put the child restraint system as far away from the door side as possible, and secure the child restraint system to be locked in position.

Inflation of side or curtain air bag could cause serious injury or death due to the expansion impact.

# AIR BAG

# Air bag warning light

The purpose of air bag warning light in your instrument panel is to alert you of a potential problem with your air bag -Supplemental Restraint System (SRS). When the ignition switch is turned ON, the indicator light should illuminate for approximately 6 seconds, then go off. Have the system checked if:

- The light does not turn on briefly when you turn the ignition ON.
- The light stays on after illuminating for approximately 6 seconds.
- The light comes on while the vehicle is in motion.

# **SRS Care**

The SRS is virtually maintenance-free and so there are no parts you can safely service by yourself. If the SRS "AIR BAG" warning light does not illuminate, or continuously remains on, have your vehicle immediately inspected by an authorized Hyundai dealer.

Any work on the SRS system, such as removing, installing, repairing, or any work on the steering wheel must be performed by an authorized Hyundai dealer. Improper handling of the SRS system may result in serious personal injury.

# A WARNING

- Do not install a child restraint system in the front passenger seat position. A child restraint system must never be placed in the front seat. The infant or child could be severely injured by an air bag deployment in case of an accident.
- Modification to SRS components or wiring, including the addition of any kind of badges to the pad covers or modifications to the body structure, can adversely affect SRS performance and lead to possible injury.
- For cleaning the air bag pad covers, use only a soft, dry cloth or one which has been moistened with plain water. Solvents or cleaners could adversely affect the air bag covers and proper deployment of the system.
- No objects should be placed over or near the air bag modules on the steering wheel, instrument panel, and the front passenger's panel above the glove box, because any such object could cause harm if the vehicle is in a crash severe enough to cause the air bags to inflate.

### by rendering the SRS inoperative.

(Continued)

Hvundai dealer.

 If components of the air bag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed. An authorized Hyundai dealer knows these precautions and can give you the necessary information. Failure to follow these precautions and procedures could increase the risk of personal injury.

• If the air bags inflate, they must

Do not tamper with or disconnect

SRS wiring, or other components

of the SRS system. Doing so

could result in injury, due to acci-

dental inflation of the air bags or

be replaced by an authorized

 If your car was flooded and has soaked carpeting or water on flooring, you shouldn't try to start the engine; have the car towed to an authorized Hyundai dealer.

# Additional safety precautions

- Never let passengers ride in the cargo area or on top of a foldeddown back seat. All occupants should sit upright, fully back in their seats with their seat belts on and their feet on the floor.
- Passengers should not move out of or change seats while the vehicle is moving. A passenger who is not wearing a seat belt during a crash or emergency stop can be thrown against the inside of the vehicle, against other occupants, or out of the vehicle.
- Each seat belt is designed to restrain one occupant. If more than one person uses the same seat belt, they could be seriously injured or killed in a collision.
- Do not use any accessories on seat belts. Devices claiming to improve occupant comfort or reposition the seat belt can reduce the protection provided by the seat belt and increase the chance of serious injury in a crash.
- Passengers should not place hard or sharp objects between themselves and the air bags. Carrying hard or sharp objects on your lap or in your mouth can result in injuries if an air bag inflates.

- Keep occupants away from the air bag covers. All occupants should sit upright, fully back in their seats with their seat belts on and their feet on the floor. If occupants are too close to the air bag covers, they could be injured if the air bags inflate.
- Do not attach or place objects on or near the air bag covers. Any object attached to or placed on the front or side air bag covers could interfere with the proper operation of the air bags.
- Do not modify the front seats. Modification of the front seats could interfere with the operation of the supplemental restraint system sensing components or side air bags.
- Do not place items under the front seats. Placing items under the front seats could interfere with the operation of the supplemental restraint system sensing components and wiring harnesses.
- Never hold an infant or child on your lap. The infant or child could be seriously injured or killed in the event of a crash. All infants and children should be properly restrained in appropriate child safety seats or seat belts in the rear seat.

# **A** WARNING

- Sitting improperly or out of position can cause occupants to be shifted too close to a deploying air bag, strike the interior structure or be thrown from the vehicle resulting in serious injury or death.
- Always sit upright with the seatback in an upright position, centered on the seat cushion with your seat belt on, legs comfortably extended and your feet on the floor.

## Adding equipment to or modifying your air bag-equipped vehicle

If you modify your vehicle by changing your vehicle's frame, bumper system, front end or side sheet metal or ride height, this may affect the operation of your vehicle's air bag system.


OHD036027/OHD036117L/1VQA2097/OHD036121L/OHD036122L

#### Air bag warning label

Air bag warning labels required by the U.S. National Highway Traffic Safety Administration (NHTSA) are attached to alert driver and passengers of potential risks of the air bag system.

Keys / 4-2 Remote keyless entry / 4-3 Theft-alarm system / 4-6 Door locks / 4-8 Trunk / 4-12 Windows / 4-14 Hood / 4-18 Fuel filler lid / 4-20

# Features of your vehicle

Sunroof / 4-23 Steering wheel / 4-28 Mirrors / 4-30 Instrument cluster / 4-38 Hazard warning flasher / 4-50 Lighting / 4-51 Wipers and washers / 4-54 Interior light / 4-56 Defroster / 4-59 Manual climate control system / 4-60 Automatic climate control system / 4-69 Windshield defrosting and defogging / 4-77 Storage compartment / 4-80 Interior features / 4-82 Audio system / 4-87

## Features of your vehicle

## **KEYS**



#### Record your key number

The key code number is stamped on the bar code tag attached to the key set. Should you lose your keys, this number will enable an authorized Hyundai dealer to duplicate the keys easily. Remove the bar code tag and store it in a safe place. Also, record the code number and keep it in a safe and handy place, but not in the vehicle.



OHD046101

### Key operations

Used to start the engine, lock and unlock the doors.

A WARNING - Ignition key Leaving children unattended in a vehicle with the ignition key is dangerous even if the key is not in the ignition. Children copy adults and they could place the key in the ignition. The ignition key would enable children to operate power windows or other controls, or even make the vehicle move, which could result in serious bodily injury or even death. Never leave the keys in your vehicle with unsupervised children.

# **A** WARNING

Use only Hyundai original parts for the ignition key in your vehicle. If an aftermarket key is used, the ignition switch may not return to ON after START. If this happens, the starter will continue to operate causing damage to the starter motor and possible fire due to excessive current in the wiring.

# **REMOTE KEYLESS ENTRY (IF EQUIPPED)**



# Remote keyless entry system operations

Lock (1)

All doors are locked if the lock button is pressed.

If all doors are closed, the hazard warning lights blink once to indicate that all doors are locked. However, if any door remains open, the hazard warning lights don't blink. After this, if all doors are closed, the hazard warning lights blink. Unlock (2)

Driver's door is unlocked if the unlock button is pressed once.

The hazard warning lights will blink twice to indicate that the driver's door is unlocked.

All doors are unlocked if the unlock button is pressed twice within 4 seconds.

The hazard warning lights will blink twice again to indicate that all doors are unlocked.

After depressing this button, the doors will be locked automatically unless you open any door within 30 seconds.

#### Trunk lid open (3)

The trunk lid opens if this button is pressed (more than 0.5 second).

#### Alarm (4)

The horn sounds and hazard warning lights flash for about 30 seconds if this button is pressed. To stop the horn and lights, press any button on the transmitter.

### Transmitter precautions \* NOTICE

The transmitter will not work if any of following occur:

- The ignition key is in ignition switch.
- You exceed the operating distance limit (about 30 feet [10 m]).
- The battery in the transmitter is weak.
- Other vehicles or objects may be blocking the signal.
- The weather is extremely cold.
- The transmitter is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the transmitter.

When the transmitter does not work correctly, open and close the door with the ignition key. If you have a problem with the transmitter, contact an authorized Hyundai dealer.

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Keep the transmitter away from water or any liquid. If the keyless entry system is inoperative due to exposure to water or liquids, it will not be covered by your manufacturer vehicle warranty.

Operational distance may vary depending upon the area the transmitter is used in. For example, if the vehicle is parked near police stations, government and public offices, broadcasting stations, military installations, airports, or transmitting towers, etc. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

### 

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



OHD046103

#### **Battery replacement**

Transmitter uses a 3 volt lithium battery which will normally last for several years. When replacement is necessary, use the following procedure.

- 1. Insert a slim tool into the slot and gently pry open the transmitter center cover (1).
- 2. Replace the battery with new one. When replacing the battery, make sure the battery positive "+" symbol faces up as indicated in the illustration.
- 3. Install the battery in the reverse order of removal.

For replacement transmitters, see an authorized Hyundai dealer for reprogramming.

# 

The keyless entry system transmitter is designed to give you years of trouble-free use, however it can malfunction if exposed to moisture or static electricity. If you are unsure how to use your transmitter or replace the battery, contact an authorized Hyundai dealer.

# 

- Using the wrong battery can cause the transmitter to malfunction. Be sure to use the correct battery.
- To avoid damaging the transmitter, don't drop it, get it wet, or expose it to heat or sunlight.

# THEFT-ALARM SYSTEM (IF EQUIPPED)



This system is designed to provide protection from unauthorized entry into the car. This system is operated in three stages: the first is the "Armed" stage, the second is the "Theft-alarm" stage, and the third is the "Disarmed" stage. If triggered, the system provides an audible alarm with blinking of the hazard warning lights.

#### Armed stage

Park the car and stop the engine. Arm the system as described below.

- 1. Remove the ignition key from the ignition switch.
- 2. Make sure that all doors, the engine hood and trunk lid are closed and latched.
- 3. Lock the doors using the transmitter of the keyless entry system.

After completion of the steps above, the hazard warning lights will blink once to indicate that the system is armed.

If any door, trunk lid or engine hood remains open, the hazard warning lights won't operate and theft-alarm will not arm. After this, if all doors, trunk lid and engine hood are closed, the hazard warning lights blink once.

The system can be armed by locking the doors with the key from the front doors or trunk lid. However, the hazard warning lights are not operated.

• Do not arm the system until all passengers have left the vehicle. If the system is armed while a passenger(s) remains in the vehicle, the alarm may be activated when the remaining passenger(s) leave the vehicle. If any door, trunk lid or engine hood is opened within 30 seconds after entering the armed stage, the system is disarmed to prevent unnecessary alarm.

#### Theft-alarm stage

The alarm will be activated if any of the following occurs while the system is armed.

- A front or rear door is opened without using the ignition key or transmitter.
- The trunk lid is opened without using the ignition key or transmitter.
- The engine hood is opened.

The siren will sound and the hazard warning lights will blink continuously for 27 seconds, and repeat the alarm 3 times unless the system is disarmed. To turn off the system, unlock the doors with the ignition key or transmitter.

#### Withheld alarm

If the trunk lid is opened with the transmitter during the armed stage, the alarm will not be activated but the armed state will be maintained for the doors and hood.

#### **Disarmed stage**

The system will be disarmed when the doors are unlocked by depressing the unlock button on the transmitter or unlocked with the ignition key.

After depressing unlock button, the hazard warning lights will blink twice to indicate that the system is disarmed.

After depressing unlock button, if any door is not opened within 30 seconds, the system will be rearmed.

### **\* NOTICE**

- Avoid trying to start the engine while the alarm is activated. The vehicle starting motor is disabled during the theft-alarm stage. If the system is not disarmed with the ignition key or transmitter, insert the key into the ignition switch, turn the ignition switch to the ON position and wait for 30 seconds. Then the system will be disarmed.
- If you lose your keys, consult your authorized Hyundai dealer.

## DOOR LOCKS



#### Operating door locks from outside the vehicle

- Turn the key toward rear of vehicle to unlock and toward front of vehicle to lock.
- If you lock/unlock the door with a key, all vehicle doors will lock/unlock automatically.
- From the driver's door, turn the key to the right once to unlock the driver's door and once more within 4 seconds to unlock all doors. (if equipped)

- Doors can also be locked and unlocked with the transmitter key (if equipped).
- Once the doors are unlocked, they may be opened by pulling the door handle.
- When closing the door, push the door by hand. Make sure that doors are closed securely.

## **\* NOTICE**

In cold and wet climates, door lock and door mechanisms may not work properly due to freezing conditions.

## **\* NOTICE**

If the door is locked/unlocked multiple times in rapid succession with either the vehicle key or door lock switch, the system may stop operating temporarily in order to protect the circuit and prevent damage to system components.



- To lock a door without the key, push the inside door lock button (1) or central door lock switch (2) (if equipped) to the "Lock" position and close the door (3).
- If you lock the door with the central door lock switch, all vehicle doors will lock automatically. (if equipped)

## **\* NOTICE**

Always remove the ignition key, engage the parking brake, close all windows and lock all doors when leaving your vehicle unattended.



# Operating door locks from inside the vehicle

With the door lock button

- To unlock a door, push the door lock button (1) to the "Unlock" position. The red mark (2) on the button will be visible.
- To lock a door, push the door lock button (1) to the "Lock" position. If the door is locked properly, the red mark (2) on the door lock button will not be visible.
- To open a door, pull the door handle (3) outward.
- If the inner door handle of the front door is pulled when the door lock button is in lock position, the button is unlocked and door opens. (if equipped)

• Front doors cannot be locked if the ignition key is in the ignition switch and any front door is open.

#### WARNING - Door lock malfunction

If a power door lock ever fails to function while you are in the vehicle, try one or more of the following techniques to exit:

- Operate the door unlock feature repeatedly (both electronic and manual) while simultaneously pulling on the door handle.
- Operate the other door locks and handles, front and rear.
- Lower a front window and use the key to unlock the door from outside.



With central door lock switch (if equipped)

It is operated by depressing the door lock switch. If the "Lock" position is switched when any door is open, the door will remain locked when closed.

- When pushing down on the front portion (1) of the switch, all vehicle doors will lock.
- When pushing down on the rear portion (2) of the switch, all vehicle doors will unlock.
- However, if the key is in the ignition switch and any front door is open, the doors will not lock when the front portion of central door lock switch is pressed.

# A WARNING - Doors

- The doors should always be fully closed and locked while the vehicle is in motion to prevent accidental opening of the door. Locked doors will also discourage potential intruders when the vehicle stops or slows.
- Be careful when opening doors and watch for vehicles, motorcycles, bicycles or pedestrians approaching the vehicle in the path of the door. Opening a door when something is approaching can cause damage or injury.

# A WARNING - Unlocked vehicles

Leaving your vehicle unlocked can invite theft or possible harm to you or others from someone hiding in your vehicle while you are gone. Always remove the ignition key, engage the parking brake, close all windows and lock all doors when leaving your vehicle unattended.

# WARNING - Unattended children

An enclosed vehicle can become extremely hot, causing death or severe injury to unattended children or animals who cannot escape the vehicle. Furthermore, children might operate features of the vehicle that could injure them, or they could encounter other harm, possibly from someone gaining entry to the vehicle. Never leave children or animals unattended in your vehicle.

# Impact sensing door unlock system (if equipped)

All doors will be automatically unlocked when the impact is delivered to impact sensors while the ignition switch ON. However, the doors may not be unlocked when there are some problems of mechanical door lock system or battery.

# Speed sensing door lock system (if equipped)

When the speed of the vehicle keeps above 20 km/h for 1 second, it will automatically lock all doors. For activation of this feature, contact an authorized Hyundai dealer.



### Child-protector rear door lock

The child safety lock is provided to help prevent children from accidentally opening the rear doors from inside the vehicle. The rear door safety locks should be used whenever children are in the vehicle.

1. Open the rear door.

3. Close the rear door.

To open the rear door, pull the outside door handle (1).

Even though the doors may be unlocked, the rear door will not open by pulling the inner door handle (2) until rear door child safety lock is unlocked ( <u>1</u>).

# WARNING - Rear door locks

If children accidentally open the rear doors while the vehicle is in motion, they could fall out and be severely injured or killed. To prevent children from opening the rear doors from the inside, the rear door safety locks should be used whenever children are in the vehicle.

## TRUNK



### Opening the trunk

With remote trunk lid release

To open the trunk lid without using the key, push the trunk lid release button.



#### With the key

To open the trunk lid, insert the key and turn it clockwise to unlock. The trunk compartment light will illuminate when the trunk lid is opened.

#### **Closing the trunk**

To close, lower the trunk lid, then press down on it until it locks. To be sure the trunk lid is securely fastened, always check by trying to pull it up again.

# A WARNING

The trunk lid should be always kept completely closed while the vehicle is in motion. If it is left open or ajar, poisonous exhaust gases may enter the car and serious illness or death may result. See additional warnings concerning exhaust gases in section 5, "Engine exhaust can be dangerous!".



#### Emergency trunk safety release

Your vehicle is equipped with an emergency trunk release cable located inside the trunk. The lever glows in the dark when the trunk lid is closed. If someone is inadvertently locked in the trunk, pulling this handle will release the trunk latch mechanism and open the trunk.

# A WARNING

No one should be allowed to occupy the trunk of the vehicle at any time. If the trunk is partially or totally latched and the person is unable to get out, severe injury or death could occur due to lack of ventilation, exhaust fumes and rapid heat build-up, or because of exposure to cold weather conditions. The trunk is also a highly dangerous location in the event of a crash because it is not a protected occupant space but merely a part of the vehicle's crush zone.

## 

- If a person is locked in the trunk, they can pull the emergency release to open the trunk lid.
- We recommend that cars be kept locked and keys be kept out of the reach of children, and that parents teach their children about the dangers of playing in trunks.

## WINDOWS



#### Power windows (if equipped)

- (1) Driver's door power window switch
- (2) Front passenger's door power window switch
- (3) Rear door (left) power window switch
- (4) Rear door (right) power window switch
- (5) Window opening and closing
- (6) Automatic power window up\*/down\* (Driver's window)
- (7) Power window lock switch
- \*: if equipped

## **\* NOTICE**

In cold and wet climates, power windows may not work properly due to freezing conditions. The ignition switch must be in the ON position for power windows to operate. Each door has a power window switch that controls the door's window. However, the driver has a power window lock switch which can block the operation of passenger windows.

The power windows can be operated for approximately 30 seconds after the ignition key is removed or turned to the ACC or LOCK position. However, if the front doors are opened, the power windows cannot be operated even within the 30 seconds after the ignition key removal. While driving, if you notice buffeting and pulsation (wind shock) with either side window open, you should open the opposite window slightly to reduce the condition.

# 

• To prevent the power window system from the possibility of damage, do not open or close two windows at the same time. This will also ensure the longevity of the fuse.

(Continued)

#### (Continued)

• Never try to operate the main switch on the driver's door and the individual door window switch in opposing directions at the same time. If this is done, the window will stop and cannot be opened or closed.

## A WARNING - Windows

- Always double check to make sure all arms, hands, head and other obstructions are safely out of the way before closing a window.
- Do not allow children to play with the power windows. Keep the driver's door power window lock switch in the LOCK position (depressed). Serious injury can result from unintentional window operation by the child.
- Do not extend face or arms outside through the window opening while driving.

#### Window opening and closing

The driver's door has a master power window switch that controls all the windows in the vehicle.

• To open or close a window, press down or pull up the front portion of the corresponding switch to the first detent position (5).

#### Auto down window (if equipped) (driver's window)

Depressing the power window switch momentarily to the second detent position (6) completely lowers the driver's window even when the switch is released. To stop the window at the desired position while the window is in operation, pull up the switch momentarily to the opposite direction of the window movement.

#### Auto up/down window (if equipped) (Driver's window)

Depressing or pulling up the power window switch momentarily to the second detent position (6) completely lowers or lifts the window even when the switch is released. To stop the window at the desired position while the window is in operation, pull up or depress and release the switch to the opposite direction of the movement.

If the power window is not operated correctly, the automatic power window system must be reset as follows:

- 1. Turn the ignition switch to the ON position.
- 2. Close driver's window and continue pulling up on driver's power window switch for at least 1 second after the window is completely closed.

#### Automatic reversal

If the upward movement of the window is blocked by an object or part of the body, the window will detect the resistance and will stop upward movement. The window will then lower approximately 11.8 in. (30 cm) to allow the object to be cleared.

If the window detect the resistance while the power window switch is pulled up continuously, the window will stop upward movement then lower approximately 1in. (2.5cm). And if the power window switch is pulled up continuously again within 5 seconds after the window is lowered by the automatic window reversal feature, the automatic window reversal will not operate.

# A WARNING

- The automatic reverse feature for the driver's window is only active when the "auto up" feature is used by fully pulling up the switch. The automatic reverse feature will not operate if the window is raised using the halfway position on the power window switch.
- Always check for obstructions before raising any window to avoid injuries or vehicle damage. If an object less than 0.16 in. (4 mm) in diameter is caught between the window glass and the upper window channel, the automatic reverse window may not detect the resistance and will not stop and reverse direction.

# A WARNING

- Passengers can be injured if their head, hands or other body parts are trapped by a closing window. Always check for obstructions before raising any window.
- NEVER leave the ignition key in the vehicle.
- NEVER leave any child unattended in the vehicle. Even very young children may inadvertently cause the vehicle to move, entangle themselves in the windows, or otherwise injure themselves or others.
- Do not attempt to operate the main switch on the driver's door and a switch on another door in opposing directions at the same time. If this is done, the window will stop and cannot be opened or closed.



Power window lock button

- The driver can disable the power window switches on a passenger door by depressing the power window lock switch located on the driver's door to LOCK (pressed).
- When the power window lock switch is ON, the driver's master control cannot operate the passenger door power windows.



#### Manual windows (if equipped)

To raise or lower the window, turn the window regulator handle clockwise or counterclockwise.

# **A** WARNING

When opening or closing the windows, make sure your passenger's arms, hands and body are safely out of the way.

## Features of your vehicle

## HOOD



#### Opening the hood

- 1. Pull the release lever to unlatch the hood. The hood should pop open slightly.
- OHD046012 2. Go to the front of the vehicle, raise the hood slightly, pull the secondary latch (1) inside of the hood center and lift the hood (2).



- 3. Pull the support rod from the engine room.
- 4. Hold the hood open with the support rod.

## **A** WARNING - Hot parts

Grasp the support rod in the area wrapped in rubber. The rubber will help prevent you from being burned by hot metal when the engine is hot.

# **A** WARNING

- Always double check to be sure that the hood is firmly latched before driving away. If it is not latched, the hood could fly open while the vehicle is being driven, causing a total loss of visibility, which might result in an accident.
- The support rod must be inserted completely into the hole provided in the hood whenever you inspect the engine compartment. This will prevent the hood from falling and possibly injuring you.
- Do not move the vehicle with the hood in the raised position, as vision is obstructed and the hood could fall or be damaged.

#### Closing the hood

- 1. Before closing the hood, check the following:
  - All filler caps in engine compartment must be correctly installed.
  - Gloves, rags or any other combustible material must be removed from the engine compartment.
- 2. Return the support rod to its clip to prevent it from rattling.
- 3. Lower the hood until it is about 1 ft. (30 cm) above the closed position and let it drop. Make sure that it locks into place.

## **A** WARNING

Make sure the hood is properly locked before driving.

## A WARNING - Hood

- Before closing the hood, ensure that all obstructions are removed from the hood opening. Closing the hood with an obstruction present in the hood opening may result in property damage or severe personal injury.
- Do not leave gloves, rags or any other combustible material in the engine compartment. Doing so may cause a heat-induced fire.

## FUEL FILLER LID



#### Opening the fuel filer lid

The fuel-filler lid must be opened from inside the vehicle by pulling up on the fuel-filler lid opener located on the front floor area on the left side of the car.

#### **\* NOTICE**

If the fuel-filler lid will not open because ice has formed around it, tap lightly or push on the lid to break the ice and release the lid. Do not pry on the lid. If necessary, spray around the lid with an approved de-icer fluid (do not use radiator anti-freeze) or move the vehicle to a warm place and allow the ice to melt.



- 1. Stop the engine.
- 2. To open the fuel filler lid, pull the fuel filler lid opener up.

# **A** WARNING

To avoid injury from sharp edges, it is recommended that protective gloves be worn if there is a need to open the fuel filler door manually.

- 3. Pull the fuel filler lid out to open.
- 4. To remove the cap, turn the fuel tank cap counterclockwise.
- 5. Refuel as needed.

#### Closing the fuel filer lid

- 1. To install the cap, turn it clockwise until it "clicks". This indicates that the cap is securely tightened.
- 2. Close the fuel filler lid and push it lightly and make sure that it is securely closed.

# A WARNING - Refueling

- If pressurized fuel sprays out, it can cover your clothes or skin and thus subject you to the risk of fire and burns. Always remove the fuel cap carefully and slowly. If the cap is venting fuel or if you hear a hissing sound, wait until the condition stops before completely removing the cap.
- Do not "top off" after the nozzle automatically shuts off when refueling.
- Tighten the cap until it clicks, otherwise the """ light will illuminate.
- Always check that the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

#### WARNING - Refueling dangers

Automotive fuels are flammable materials. When refueling, please note the following guidelines carefully. Failure to follow these guidelines may result in severe personal injury, severe burns or death by fire or explosion.

- Before refueling note the location of the Emergency Gasoline Shut-Off, if available, at the gas station facility.
- Before touching the fuel nozzle, you should eliminate potentially dangerous static electricity discharge by touching another metal part of the vehicle, a safe distance away from the fuel filler neck, nozzle, or other gas source. (Continued)

#### (Continued)

- Do not get back into a vehicle once you have begun refueling since you can generate static electricity by touching, rubbing or sliding against any item or fabric (polyester, satin, nylon, etc.) capable of producing static electricity. Static electricity discharge can ignite fuel vapors resulting in rapid burning. If you must reenter the vehicle, you should once again eliminate potentially dangerous static electricity discharge by touching a metal part of the vehicle, away from the fuel filler neck, nozzle or other gasoline source.
- When using an approved portable fuel container be sure to place the container on the ground prior to refueling. Static electricity discharge from the container can ignite fuel vapors causing a fire. Once refueling has begun, contact with the vehicle should be maintained until the filling is complete.

(Continued)

#### (Continued)

Use only approved portable plastic fuel containers designed to carry and store gasoline.

- Do not use cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors causing a fire.
- When refueling, always shut the engine off. Sparks produced by electrical components related to the engine can ignite fuel vapors causing a fire. Once refueling is complete, check to make sure the filler cap and filler door are securely closed, before starting the engine.
- DO NOT use matches or a lighter and DO NOT SMOKE or leave a lit cigarette in your vehicle while at a gas station especially during refueling. Automotive fuel is highly flammable and can, when ignited, result in fire.

(Continued)

#### (Continued)

• If a fire breaks out during refueling, leave the vicinity of the vehicle, and immediately contact the manager of the gas station and then contact the local fire department or 911. Follow any safety instructions they provide.

# 

- Make sure to refuel with unleaded fuel only.
- If the fuel filler cap requires replacement, use only a genuine Hyundai cap or the equivalent specified for your vehicle. An incorrect fuel filler cap can result in a serious malfunction of the fuel system or emission control system.

(Continued)

#### (Continued)

- Do not spill fuel on the exterior surfaces of the vehicle. Any type of fuel spilled on painted surfaces may damage the paint.
- If the fuel filler lid will not open in cold weather because the area around it is frozen, push or lightly tap the lid.
- After refueling, make sure the fuel cap is installed securely to prevent fuel spillage in the event of an accident.

## SUNROOF (IF EQUIPPED)



If your vehicle is equipped with this feature, you can slide or tilt your sunroof with the sunroof control buttons located on the overhead console.

- 1. Slide button
- 2. Tilt button
- 3. Close button

The sunroof can only be opened, closed, or tilted when the ignition switch is in the ON position.

# **\* NOTICE**

In cold and wet climates, sunroof may not work properly due to freezing conditions.

# **\*** NOTICE

After washing the car or after there is rain, be sure to wipe off any water that is on the sunroof before operating it.

# 

Do not continue to press the sunroof control button(s) after the sunroof is in the fully open, closed, or tilt position(s). Damage to the motor or system components could occur.

# **\*** NOTICE

The sunroof cannot slide when it is in the tilt position nor can it be tilted while in an open or slide position.

# A WARNING

Never adjust the sunshade while driving. This could result in loss of control and an accident that may cause death, serious injury, or property damage.



#### Sliding the sunroof

To open the sunroof (autoslide feature), press the slide button (1) on the overhead console (for more than 0.5 seconds).

The sunroof will slide all the way open. To stop the sunroof sliding at any point, press any sunroof control button.

To close the sunroof (autoslide feature), press the close button (3) on the overhead console (for more than 0.5 seconds).

The sunroof will slide all the way close. To stop the sunroof sliding at any point, press any sunroof control button.



Automatic reversal

If an object or part of the body is detected while the sunroof is closing automatically, it will reverse direction, and then stop.

Auto reverse function does not work if a tiny obstacle is blocked between the sliding glass and the sunroof sash. You should always check that all passengers and objects are away from the sunroof before closing it.

## **A** WARNING

Be careful that someone's head, hands and body are not trapped by a closing sunroof.



#### Tilting the sunroof

To open the sunroof (autotilt feature), press the tilt button (2) on the overhead console (for more than 0.5 seconds).

The sunroof will tilt all the way open. To stop the sunroof tilting at any point, press any sunroof control button.

To close the sunroof, press the close button (3) on the overhead console and hold it until the sunroof is closed.



## A WARNING - Sunroof

- Do not extend face, neck, arms or body outside through the sunroof opening while driving.
- Make sure hand and face are safely out of the way before closing a sunroof.

# 

- Do not press any sunroof control button longer than necessary. Damage to the motor or system components could occur.
- Periodically remove any dirt that may accumulate on the guide rail.
- If you try to open the sunroof when the temperature is below freezing or when the sunroof is covered with snow or ice, the glass or the motor could be damaged.
- The sunroof is made to slide together with sunshade. Do not leave the sunshade closed while the sunroof is open.

### Sunshade

The sunshade will be opened with the glass panel automatically when the glass panel is slid. You will have to close it manually if you want it closed.



In case of an emergency If the sunroof does not open electrically: 1. Open the sunglass holder.





- 2. Remove the two (2) screws, and then remove the overhead console.
- Insert the emergency handle (provided with the vehicle) and turn the handle clockwise to open or counterclockwise to close.

#### Resetting the sunroof

Whenever the vehicle battery is disconnected or discharged, or you use the emergency handle to operate the sunroof, you have to reset your sunroof system as follows:

- 1. Turn the ignition key to the ON position.
- 2. According to the position of the sunroof, do as follows.
  - 1) in case that the sunroof has closed completely or been tilted :

Press the tilt button until the sunroof has tilted upward completely.

2) in case that the sunroof has slideopened:

Press and hold the close button (for more than 5 seconds) until the sunroof has closed completely. Press the tilt button until the sunroof has tilted upward completely.

- 3. Release the tilt button.
- 4. Press and hold the tilt button (for more than 10 seconds) until the sunroof has returned to the original position of tilt after it is raised a little higher than the maximum tilt position. Then, release the button.

 Press and hold the tilt button (for more than 5 seconds) until the sunroof is operated as follows;

TILT DOWN  $\rightarrow$  SLIDE OPEN  $\rightarrow$  SLIDE CLOSE

Then, release the button.

When this is complete, the sunroof system is reset.

### STEERING WHEEL

#### **Electronic power steering**

Power steering uses the motor to assist you in steering the vehicle. If the engine is off or if the power steering system becomes inoperative, the vehicle may still be steered, but it will require increased steering effort.

The motor driven power steering is controlled by power steering control unit which sense the steering wheel torque, steering wheel position and vehicle speed to command the motor.

The steering wheel becomes heavier as the vehicle's speed increases and becomes lighter as the vehicle's speed decreases for the better control of the steering wheel.

Should you notice any change in the effort required to steer during normal vehicle operation, have the power steering checked by an authorized Hyundai dealer.

## **\* NOTICE**

The following symptoms may occur during normal vehicle operation:

- The EPS warning light does not illuminate.
- The steering wheel becomes heavier after turning the ignition switch on. This happens as the system performs the EPS system diagnostics. When the diagnostics is completed, the steering wheel will return to its normal condition.
- Click noise may be heard from the EPS relay after the ignition switch is turned to the ON or LOCK position.
- Motor noise may be heard when the vehicle is at a stop or at a low driving speed.
- The steering effort can suddenly increase, if the operation of EPS system is stopped to prevent serious accidents when the malfunction of EPS system is detected by self-diagnosis.

#### **Tilt steering**

A tilt steering wheel allows you to adjust the steering wheel before you drive. You can also raise it to the highest level to give your legs more room when you exit and enter the vehicle.

The steering wheel should be positioned so that it is comfortable for you to drive, while permitting you to see the instrument panel warning lights and gauges.

# **A** WARNING

- Never adjust the angle and height of steering wheel while driving. You may lose your steering control and cause severe personal injury or accidents.
- After adjusting, push the steering wheel both up and down to be certain it is locked in position.



To change the steering wheel angle, pull down the lock release lever (1), adjust the steering wheel to the desired angle (2) and height (3), then pull up the lockrelease lever to lock the steering wheel in place. Be sure to adjust the steering wheel to the desired position before driving.



#### Horn

To sound the horn, press the horn symbol on your steering wheel.

Check the horn regularly to be sure it operates properly.

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- To sound the horn, press the area indicated by the horn symbol on your steering wheel (see illustration). The horn will operate only when this area is pressed.
- Do not strike the horn severely to operate it, or hit it with your fist. Do not press on the horn with a sharp-pointed object.

## MIRRORS

#### Inside rearview mirror

#### Day/night rearview mirror

Adjust the rearview mirror to center on the view through the rear window. Make this adjustment before you start driving.

WARNING - Rear visibility Do not place objects in the rear seat or cargo area which would interfere with your vision out the rear window.



Make this adjustment before you start driving and while the day/night lever is in the day position.

Pull the day/night lever toward you to reduce glare from the headlights of vehicles behind you during night driving.

Remember that you lose some rearview clarity in the night position.

# *Electric chromic mirror (ECM) (if equipped)*

The electric rearview mirror automatically controls the glare from the headlights of the car behind you in nighttime or low light driving conditions. The sensor mounted in the mirror senses the light level around the vehicle, and through a chemical reaction, automatically controls the headlight glare from vehicles behind you.

When the engine is running, the glare is automatically controlled by the sensor mounted in the rearview mirror.

Whenever the shift lever is shifted into reverse (R), the mirror will automatically go to the brightest setting in order to improve the drivers view behind the vehicle.

# 

When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as that may cause the liquid cleaner to enter the mirror housing.







#### To operate the electric rearview mirror

- Press the ON/OFF button (1) to turn the automatic dimming function on. The mirror indicator light will illuminate.
  Press the ON/OFF button to turn the automatic- dimming function off. The mirror indicator light will turn off.
- The mirror defaults to the ON position whenever the ignition switch is turned on.

*Electric chromic mirror with homelink system (if equipped)* 

To operate the electric rearview mirror Press the I button (1) to turn the automatic- dimming function on. The mirror indicator light will illuminate.

Press the O button (2) to turn the automatic- dimming function off. The mirror indicator light will turn off.

#### HomeLink® Wireless Control System

Your new mirror comes with an integrated HomeLink Universal Transceiver, which allows you to program the mirror to activate your garage door(s), estate gate, home lighting, etc. The mirror actually learns the codes from your various existing transmitters.

# A WARNING

- When programming the HomeLink® Wireless Control System, you may be operating a garage door or gate operator. Make sure that people and objects are out of the way of the moving door or gate to prevent potential harm or damage.
- Do not use HomeLink with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards. (This includes any garage door opener model 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 risk of serious injury or death. For more information, call 1-800-355-3515 or on the internet at www.homelink.com.

Retain the original transmitter for future programming procedures (i.e., new vehicle purchase). It is also suggested that upon the sale of the vehicle, the programmed HomeLink buttons be erased for security purposes (follow step 1 in the "Programming" portion of this text).

#### Programming

Your vehicle may require the ignition switch to be turned to the ACC position for programming and/or operation of HomeLink. It is also recommended that a new battery be replaced in the hand-held transmitter of the device being programmed to HomeLink for quicker training and accurate transmission of the radio-frequency.

Follow these steps to train your HomeLink mirror:



 When programming the buttons for the first time, press and hold the left and center buttons (①, ①) simultaneously until the indicator light begins to flash after approximately 20 seconds. (This procedure erases the factory-set default codes. Do not perform this step to program additional hand-held transmitters.)

## **\* NOTICE**

For non rolling code garage door openers, follow steps 2 - 3.

For rolling code garage door openers, follow steps 2 - 6.

For Canadian Programming, please follow the Canadian Programming section. For help with determining whether your garage is non-rolling code or rolling code, please refer to the garage door openers owner's manual or contact HomeLink customer service at 1-800-355-3515.



- 2. Press and hold the button on the HomeLink system you wish to train and the button on the transmitter while the transmitter is approximately 1 to 3 inches away from the mirror. Do not release the buttons until step 3 has been completed.
- 3. The HomeLink indicator light will flash, first slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. (The rapid flashing light indicates successful programming of the new frequency signal.)

## **\* NOTICE**

Some gate operators and garage door openers may require you to replace step #3 with the "cycling" procedure noted in the "Canadian Programming" section of this document.

#### Rolling code programming

To train a garage door opener (or other rolling code equipped devices) with the rolling code feature, follow these instructions after completing the "Programming" portion of this text. (A second person may make the following training procedures quicker & easier.)

- 4. Locate the "learn" or "smart" button on the device's motor head unit. Exact location and color of the button may vary by product brand. If there is difficulty locating the "learn" or "smart" button, reference the device's owner's manual or contact HomeLink at 1-800-355-3515 or on the internet at www.homelink.com.
- 5. Press and release the "learn" or "smart" button on the device's motor head unit. You have 30 seconds to complete step number 6.
- 6. Return to the vehicle and firmly press and release the programmed HomeLink button up to three times. The rolling code equipped device should now recognize the HomeLink signal and activate when the HomeLink button is pressed. The remaining two buttons may now be programmed if this has not previously done. Refer to been the "Programming" portion of this text.

#### **Operating HomeLink**

To operate, simply press the programmed HomeLink button. Activation will now occur for the trained product (garage door, security system, entry door lock, estate gate, or home or office lighting). For convenience, the hand-held transmitter of the device may also be used at any time. The HomeLink Wireless Controls System (once programmed) or the original hand-held transmitter may be used to activate the device (e.g. garage door, entry door lock, etc.). In the event that there are still programming difficulties, contact HomeLink at 1-800-355-3515 or on the internet at www.homelink.com.



Erasing programmed HomeLink buttons

To erase the three programmed buttons (individual buttons cannot be erased):

 Press and hold the left and center buttons simultaneously, until the indicator light begins to flash (approximately 20 seconds). Release both buttons. Do not hold for longer than 30 seconds.

HomeLink is now in the train (or learning) mode and can be programmed at any time.

# Reprogramming a single HomeLink button

To program a device to HomeLink using a HomeLink button previously trained, follow these steps:

- 1. Press and hold the desired HomeLink button. Do NOT release until step 4 has been completed.
- 2. When the indicator light begins to flash slowly (after 20 seconds), position the hand-held transmitter 1 to 3 inches away from the HomeLink surface.
- 3. Press and hold the hand-held transmitter button (or press and "cycle" - as described in "Canadian Programming" above).
- 4. The HomeLink indicator light will flash, first slowly and then rapidly. When the indicator light begins to flash rapidly, release both buttons.

The previous device has now been erased and the new device can be activated by pushing the HomeLink button that has just been programmed. This procedure will not affect any other programmed HomeLink buttons.

# Gate operator programming & canadian programming

During programming, your hand-held transmitter may automatically stop transmitting. Continue to press and hold the HomeLink button (note steps 2 through 4 in the "Programming" portion of this text) while you press and re-press ("cycle") your handheld transmitter every two seconds until the frequency signal has been learned. The indicator light will flash slowly and then rapidly after several seconds upon successful training.

# 

If programming a garage door opener or gate, it is advised to unplug the device during the "cycling" process to prevent possible motor burn-up.

#### Accessories

If you would like additional information on the HomeLink Wireless Control System, HomeLink compatible products, or to purchase other accessories such as the HomeLink® Lighting Package, please contact HomeLink at 1-800-355-3515 or on the internet at www.homelink.com.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

## A WARNING

The HomeLink transmitter has been tested and complies with FCC and DOC/MDC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. IC: 4112104541A Gentex

MODEL/FCC ID: NZLSTDHL3

#### **Outside rearview mirror**

Be sure to adjust mirror angles before driving.

Your vehicle is equipped with both lefthand and right-hand outside rearview mirrors. The mirrors can be adjusted remotely with the remote switch. The mirror heads can be folded back to prevent damage during an automatic car wash or when passing in a narrow street.
## WARNING - Rearview mirrors

- The right outside rearview mirror is convex. Objects seen in the mirror are closer than they appear.
- Use your interior rearview mirror or direct observation to determine the actual distance of following vehicles when changing lanes.

## 

Do not scrape ice off the mirror face; this may damage the surface of the glass. If ice should restrict movement of the mirror, do not force the mirror for adjustment. To remove ice, use a deicer spray, or a sponge or soft cloth with very warm water.

## 

If the mirror is jammed with ice, do not adjust the mirror by force. Use an approved spray de-icer (not radiator antifreeze) to release the frozen mechanism or move the vehicle to a warm place and allow the ice to melt.

## **A** WARNING

Do not adjust or fold the outside rearview mirrors while the vehicle is moving. This could result in loss of control, and an accident which could cause death, serious injury or property damage.



## *Remote control* Manual type

The outside rearview mirrors are equipped with a remote control for your convenience. It is operated by the control lever in the bottom front corner of the window.

Before driving away, always check that your mirrors are positioned so you can see behind you, both to the left and right sides, as well as directly behind your vehicle. When using the mirror, always exercise caution when attempting to judge the distance of vehicles behind or along side of you.



## 

- The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is depressed. Do not depress the switch longer than necessary, the motor may be damaged.
- Do not attempt to adjust the outside rearview mirror by hand. Doing so may damage the parts.



*Folding the outside rearview mirror* To fold outside rearview mirror, grasp the housing of mirror and then fold it toward the rear of the vehicle.

## **Electric type (if equipped)**

The electric remote control mirror switch allows you to adjust the position of the left and right outside rearview mirrors. To adjust the position of either mirror, move the lever (1) to R or L to select the right side mirror or the left side mirror, then press a corresponding point ( $\blacktriangle$ ) on the mirror adjustment control to position the selected mirror up, down, left or right.

After adjustment, put the lever into neutral position to prevent the inadvertent adjustment.

## **INSTRUMENT CLUSTER**



- 1. Tachometer
- 2. Turn signal indicators
- 3. Speedometer
- 4. Engine temperature gauge
- 5. Warning and indicator lights
- 6. Shift position indicator
- (Automatic transaxle only)
- 7. Odometer/Trip computer
- 8. Fuel gauge

#### OHD046027N



## Instrument panel illumination

When the vehicle's parking lights or headlights are on, rotate the illumination control knob to adjust the instrument panel illumination intensity.

The instrument cluster illumination intensity can be adjusted by rotating the control knob with the headlight switch in any position when the ignition switch is in ON position.



## Gauges

#### Speedometer

The speedometer indicates the forward speed of the vehicle.

The speedometer is calibrated in miles per hour and/or kilometers per hour.



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## Tachometer

The tachometer indicates the approximate number of engine revolutions per minute (rpm).

Use the tachometer to select the correct shift points and to prevent lugging and/or over-revving the engine.

When the door is open, and if the engine is not started in 1 minute, the tachometer pointer may move slightly in ACC or ON position with the engine OFF. This movement is normal and will not affect the accuracy of the tachometer once the engine is running.

## 

Do not operate the engine within the tachometer's RED ZONE. This may cause severe engine damage.



## **A** WARNING

Never remove the radiator cap when the engine is hot. The engine coolant is under pressure and could erupt and cause severe burns. Wait until the engine is cool before adding coolant to the reservoir.



## Fuel gauge

The fuel gauge indicates the approximate amount of fuel remaining in the fuel tank. The fuel tank capacity is given in section 9. The fuel gauge is supplemented by a low fuel warning light, which will illuminate when the fuel tank is nearly empty.

WARNING - Fuel gauge Running out of fuel can expose vehicle occupants to danger. You must stop and obtain additional fuel as soon as possible after the warning light comes on or when the gauge indicator comes close to the E level.

#### Engine temperature gauge

This gauge shows the temperature of the engine coolant when the ignition switch is ON.

Do not continue driving with an overheated engine. If your vehicle overheats, refer to "If the engine overheats" in the Index.

## 

If the gauge pointer moves beyond the normal range area toward the "H" position, it indicates overheating that may damage the engine.



Odometer/Tripmeter (if equipped) You can choose the odometer, tripmeter A or tripmeter B by pressing the TRIP button for less than 1 second.

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#### Tripmeter

**TRIP A: Tripmeter A** 

TRIP B: Tripmeter B

The tripmeter indicates the distance of individual trips selected by the driver. Tripmeter A or B can be reset to 0 by pressing the TRIP button for 1 second or more, and then releasing.

## Odometer

The odometer indicates the total distance the vehicle has been driven.

You will also find the odometer useful to determine when periodic maintenance should be performed.

## **\* NOTICE**

It is forbidden that alteration of the odometer of any vehicle with the intent to change the mileage registered on the odometer. The alteration may void your warranty coverage.

OHD046033N







#### Distance to empty

This mode indicates the estimated distance to empty based on the current fuel in the fuel tank and the amount of fuel delivered to the engine. When the remaining distance is below 30 miles (50 km), a "----" symbol will be displayed. The meter's working range is from 30 to 999 miles (50 to 999 km).

## Trip computer (if equipped)

The trip computer is a microcomputercontrolled driver information system that displays information related to driving, including distance to empty, tripmeter, average fuel consumption and average speed on the display when the ignition switch is in ON position.

#### Mode selection

Push the TRIP button for less than 1 second to select distance to empty, tripmeter, average fuel consumption and average speed functions.

## **\* NOTICE**

• If the vehicle is not on level ground or the battery power has been interrupted, the "Distance to empty" function may not operate correctly.

The trip computer may not register additional fuel if less than 1.6 gallons (6 liters) of fuel are added to the vehicle.

- The fuel consumption and distance to empty values may vary significantly based on driving conditions, driving habits, and condition of the vehicle.
- The distance to empty value is an estimate of the available driving distance. This value may differ from the actual driving distance available.





#### Average fuel consumption

This mode calculates the average fuel consumption from the total fuel used and the distance since the last average consumption reset. The total fuel used is calculated from the fuel consumption input. For an accurate calculation, drive more than 0.03 miles (50 m).

OHD046039N

The meter's working range is from 0.1 to 199.9 miles per gallon (0.1 to 199.9 *l*/100 km).

Press the TRIP button for more than 1 second to reset the average fuel consumption to zero (---).

#### Average speed

This mode indicates the average speed from the starting of the engine to the ignition key "OFF".

Average speed is reset to zero if the battery is disconnected.

To reset the average speed to zero (---), press the TRIP button for more than 1 second.

The meter's working range is from 0 to 999 MPH.



#### Tripmeter

This mode indicates the total distance travelled since the last tripmeter reset. Total distance is also reset to zero if the battery is disconnected.

Pressing the TRIP button for more than 1 second when the tripmeter is being displayed clears the tripmeter to zero. The meter's working range is from 0 to 999.9 miles.

## Warnings and indicators

All warning lights are checked by turning the ignition switch ON (do not start the engine). Any light that does not illuminate should be checked by an authorized Hyundai dealer.

After starting the engine, check to make sure that all warning lights are off. If any are still on, this indicates a situation that needs attention. When releasing the parking brake, the brake system warning light should go off. The fuel warning light will stay on if the fuel level is low.

Air bag warning light (if equipped)

AIR BAG

This warning light will illuminate for approximately 6 seconds each time you turn the ignition switch to the ON position.

This light also comes on when the SRS is not working properly. If the AIR BAG warning light does not come on, or continuously remains on after operating for about 6 seconds when you turned the ignition switch to the ON position or started the engine, or if it comes on while driving, have the SRS inspected by an authorized Hyundai dealer. Anti-lock brake system (ABS) warning light (if equipped)



This light illuminates if the ignition switch is turned to ON and goes off in approximately 3 seconds if the system is operating normally.

If the ABS warning light remains on, comes on while driving, or does not come on when the ignition switch is turned to the ON position, this indicates that there may be a problem with the ABS.

If this occurs, have your vehicle checked by an authorized Hyundai dealer as soon as possible. The normal braking system will still be operational, but without the assistance of the anti-lock brake system. Electronic brake force distribution (EBD) system warning light



If two warning lights illuminate at the same time while driving, your vehicle has a problem with ABS and EBD system.

In this case, your ABS and regular brake system may not work normally. Have the vehicle checked by an authorized Hyundai dealer as soon as possible.

## A WARNING

If the both ABS and Brake warning lights are on and stay on, your vehicle's brake system will not work normally. So you may experience an unexpected and dangerous situation during sudden braking. In this case, avoid high speed driving and abrupt braking. Have your vehicle checked by an authorized Hyundai dealer as soon as possible. Seat belt warning

Seat belt warning light

## Ķ

Turn signal indicator lights



The blinking green arrows on the instrument panel show the direction indicated by the turn signals. If the arrow comes on but does not blink, blinks more rapidly than normal, or does not illuminate at all, a malfunction in the turn signal system is indicated. Your dealer should be consulted for repairs.

High beam indicator



This indicator illuminates when the headlights are on and in the high beam position or when the turn signal lever is pulled into the Flash-to-Pass position.

#### Seat belt warning chime

reduced to below 5km/h.

If the driver's seat belt is not fastened when the ignition key is turned ON, the seat belt warning chime sounds for approximately 6 seconds. And if the vehicle speed exceeds 10 km/h with the seat belt unfastened, the seat belt warning chime sounds with the pattern of 6 seconds on and 24 seconds off for 11 times. The seat belt warning chime will stop if the seat belt is fastened or the vehicle speed is reduced to below 5 km/h.

If the driver's seat belt is not fastened

when the ignition key is turned ON, the

seat belt warning light blinks for approxi-

mately 6 seconds. And if the vehicle

speed exceeds 10km/h with the seat belt

unfastened, the seat belt warning light

blinks with the pattern of 6 seconds on

and 24 seconds off for 11 times. The seat belt warning light will stop if the seat belt

is fastened or the vehicle speed is

Engine oil pressure warning



This warning light indicates the engine oil pressure is low.

If the warning light illuminates while driving:

- 1. Drive safely to the side of the road and stop.
- 2. With the engine off, check the engine oil level. If the level is low, add oil as required.

If the warning light remains on after adding oil or if oil is not available, call an authorized Hyundai dealer.

## 

If the engine is not stopped immediately after the engine oil pressure warning light is illuminated, severe damage could result.

## 

If the oil pressure warning light stays on while the engine is running, serious engine damage may result. The oil pressure warning light comes on whenever there is insufficient oil pressure. In normal operation, it should come on when the ignition switch is turned on, then go out when the engine is started. If the oil pressure warning light stays on while the engine is running, there is a serious malfunction.

If this happens, stop the car as soon as it is safe to do so, turn off the engine and check the oil level. If the oil level is low, fill the engine oil to the proper level and start the engine again. If the light stays on with the engine running, turn the engine off immediately. In any instance where the oil light stays on when the engine is running, the engine should be checked by an authorized Hyundai dealer before the car is driven again. Parking brake & brake fluid warning



#### Parking brake warning

This light is illuminated when the parking brake is applied with the ignition switch in the START or ON position. The warning light should go off when the parking brake is released.

#### Low brake fluid level warning

If the warning light remains on, it may indicate that the brake fluid level in the reservoir is low.

If the warning light remains on:

- 1. Drive carefully to the nearest safe location and stop your vehicle.
- 2. With the engine stopped, check the brake fluid level immediately and add fluid as required. Then check all brake components for fluid leaks.
- 3. Do not drive the vehicle if leaks are found, the warning light remains on or the brakes do not operate properly. Have it towed to any authorized Hyundai dealer for a brake system inspection and necessary repairs.

Your vehicle is equipped with dual-diagonal braking systems. This means you still have braking on two wheels even if one of the dual systems should fail. With only one of the dual systems working, more than normal pedal travel and greater pedal pressure are required to stop the car. Also, the car will not stop in as short a distance with only a portion of the brake system working. If the brakes fail while you are driving, shift to a lower gear for additional engine braking and stop the car as soon as it is safe to do so.

To check bulb operation, check whether the parking brake and brake fluid warning light illuminates when the ignition switch is in the ON position.

## **A** WARNING

Driving the vehicle with a warning light on is dangerous. If the brake warning light remains on, have the brakes checked and repaired immediately by an authorized Hyundai dealer.

Front fog light indicator (if equipped)

lights are ON.



Charging system warning



This light comes on when the front fog This warning light indicates a malfunction

Shift pattern indicators (if equipped)

The individual indicators illuminate to show the automatic transaxle shift lever selection.





of either the generator or electrical charging system.

If the warning light comes on while the vehicle is in motion:

- 1. Drive to the nearest safe location.
- 2. With the engine off, check the generator drive belt for looseness or breakage.
- 3. If the belt is adjusted properly, a problem exists somewhere in the electrical charging system. Have an authorized Hyundai dealer correct the problem as soon as possible.

Trunk lid open warning light



This warning light illuminates when the trunk lid is not closed securely with the ignition in any position.

Door ajar warning light



This warning light illuminates when a door is not closed securely with the ignition in any position.

Low fuel level warning



This warning light indicates the fuel tank is nearly empty. When it comes on, you should add fuel as soon as possible. Driving with the fuel level warning light on or with the fuel level below "E" can cause the engine to misfire and damage the catalytic converter. Malfunction indicator lamp (MIL) (check engine light)



This indicator light is part of the Engine Control System which monitors various emission control system components. If this light illuminates while driving, it indicates that a potential problem has been detected somewhere in the emission control system.

This light will also illuminate when the ignition switch is turned to the ON position, and will go out in a few seconds after the engine is started. If it illuminates while driving, or does not illuminate when the ignition key is turned to the ON position, take your vehicle to your nearest authorized Hyundai dealer and have the system checked.

Generally, your vehicle will continue to be drivable, but have the system checked by an authorized Hyundai dealer promptly.

## 

- Prolonged driving with the Emission Control System Malfunction Indicator Light ( 2) illuminated may cause damage to the emission control systems which could effect drivability and/or fuel economy.
- If the Emission Control System Malfunction Indicator Light ( ) illuminates, potential catalytic converter damage is possible which could result in loss of engine power. Have the Engine Control System inspected as soon as possible by an authorized Hyundai dealer.

Low washer fluid level warning indicator



This warning light indicates the washer fluid reservoir is near empty. Refill the washer fluid as soon as possible. ESC (Electronic Stability Control) indicator (if equipped)



The ESC indicator will illuminate when the ignition switch is turned ON, but should go off after approximately 3 seconds. When the ESC is on, it monitors the driving conditions and under normal driving conditions, the ESC light will remain off. When a slippery or low traction condition is encountered, the ESC will operate, and the ESC indicator will blink to indicate the ESC is operating.

#### ESC OFF indicator (if equipped)



The ESC OFF indicator will illuminate when the ignition switch is turned ON, but should go off after approximately 3 seconds. To switch to ESC OFF mode, press the ESC OFF button. The ESC OFF indicator will illuminate indicating the ESC is deactivated. If this indicator stays on in the ESC ON mode, the ESC may have a malfunction. Take your car to an authorized Hyundai dealer and have the system checked. Cruise indicator (if equipped)

#### **CRUISE** indicator



The indicator light illuminates when the cruise control system is enabled.

The cruise indicator light in the instrument cluster is illuminated when the cruise control ON/OFF button on the steering wheel is pulled.

The indicator light turns off when the cruise control ON/OFF button is pushed again. For more Information about the use of cruise control, refer to section 5, "Cruise control system".

**Cruise SET indicator** 



The indicator light illuminates when the cruise function switch (COAST/SET or RES/ACCEL) is ON.

The cruise SET indicator light in the instrument cluster is illuminated when the cruise control switch (COAST/SET or RES/ACCEL) is pushed. The cruise SET indicator light does not illuminate when the cruise control switch (CANCEL) is pushed or the system is disengaged.

## *Key reminder warning chime (if equipped)*

If the driver's door is opened while the ignition key is left in the ignition switch (ACC or LOCK position), the key reminder warning chime will sound. This is to prevent you from locking your keys in the vehicle. The chime sounds until the key is removed from the ignition switch or the driver's door is closed.

## Electronic power steering (EPS) system warning light



This indicator light comes on after the ignition key is turned to the ON position and then it will go out with the engine started.

This light also comes on when the EPS has some troubles. If it comes on while driving, have your vehicle inspected by an authorized Hyundai dealer.

## HAZARD WARNING FLASHER



The hazard warning flasher should be used whenever you find it necessary to stop the car in a hazardous location. When you must make such an emergency stop, always pull off the road as far as possible.

The hazard warning lights are turned on by pushing in the hazard switch. This causes all turn signal lights to blink. The hazard warning lights will operate even though the key is not in the ignition.

To turn the hazard warning lights off, push the switch a second time.

## LIGHTING

## **Battery saver function**

- The purpose of this feature is to prevent the battery from being discharged. The system automatically turns off the small light when the driver removes the ignition key and opens the driver- side door.
- With this feature, the parking lights will be turned off automatically if the driver parks on the side of road at night.

If necessary, to keep the lights on when the ignition key is removed, perform the following :

1) Open the driver-side door.

2) Turn the parking lights OFF and ON again using the light switch on the steering column.



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## Lighting control

The light switch has a Headlight and a Parking light position.

To operate the lights, turn the knob at the end of the control lever to one of the following positions:

(1) OFF position

(2) Parking light position

(3) Headlight position



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## Parking light position ( 2002)

When the light switch is in the parking light position (1st position), the tail, position, license and instrument panel lights are ON.



Headlight position ( **EDED** )

When the light switch is in the headlight position (2nd position) the head, tail, position, license and instrument panel lights are ON.

## **\* NOTICE**

The ignition switch must be in the ON position to turn on the headlights.



## High - beam operation

To turn on the high beam headlights, push the lever away from you. Pull it back for low beams.

The high-beam indicator will light when the headlight high beams are switched on.

To prevent the battery from being discharged, do not leave the lights on for a prolonged time while the engine is not running.



Flashing headlights

To flash the headlights, pull the lever towards you. It will return to the normal (low-beam) position when released. The headlight switch does not need to be on to use this flashing feature.



## Turn signals and lane change signals

The ignition switch must be on for the turn signals to function. To turn on the turn signals, move the lever up or down (A). Green arrow indicators on the instrument panel indicate which turn signal is operating. They will self-cancel after a turn is completed. If the indicator continues to flash after a turn, manually return the lever to the OFF position.

To signal a lane change, move the turn signal lever slightly and hold it in position (B). The lever will return to the OFF position when released.

If an indicator stays on and does not flash or if it flashes abnormally, one of the turn signal bulbs may be burned out and will require replacement.

## **\*** NOTICE

If an indicator flash is abnormally quick or slow, bulb may be burned out or have a poor electrical connection in the circuit.



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## Front fog light (if equipped)

Fog lights are used to provide improved visibility and avoid accidents when visibility is poor due to fog, rain or snow etc. The fog lights will turn on when fog light switch (1) is turned to ON after the headlights are turned on.

To turn off the fog lights, turn the switch to OFF.

## 

When in operation, the fog lights consume large amounts of vehicle electrical power. Only use the fog lights when visibility is poor or unnecessary battery and generator drain could occur.

## WIPERS AND WASHERS



## Windshield wipers

Operates as follows when the ignition switch is turned ON.

- For a single wiping cycle, push the lever upward and release it with the lever in the OFF position. The wipers will operate continuously if the lever is pushed upward and held.
- OFF : Wiper is not in operation

- INT : Wiper operates intermittently at the same wiping intervals. Use this mode in a light rain or mist. To vary the speed setting, turn the speed control knob(1). (S : slow operation, F: fast operation)
- LO : Normal wiper speed
- HI : Fast wiper speed

## **\* NOTICE**

If there is heavy accumulation of snow or ice on the windshield, defrost the windshield for about 10 minutes, or until the snow and/or ice is removed before using the windshield wipers to ensure proper operation.

## 

- To prevent possible damage to the wipers or windshield, do not operate the wipers when the windshield is dry.
- To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.
- To prevent damage to the wiper arms and other components, do not attempt to move the wipers manually.



## Windshield washers

In the OFF position, pull the lever gently toward you to spray washer fluid on the windshield and to run the wipers 1-3 cvcles.

Use this function when the windshield is dirty.

The spray and wiper operation will continue until you release the lever.

If the washer does not work, check the washer fluid level. If the fluid level is not sufficient, you will need to add appropriate non-abrasive windshield washer fluid to the washer reservoir.

The reservoir filler neck is located in the front of the engine compartment on the passenger side.

## 

To prevent possible damage to the washer pump, do not operate the washer when the fluid reservoir is emptv.

## **WARNING**

Do not use the washer in freezing temperatures without first warming the windshield with the defrosters: the washer solution could freeze on contact with the windshield and obscure your vision.

## **INTERIOR LIGHT**

## **\* NOTICE**

Do not use the interior lights for extended periods when engine is not running. It may cause battery discharge.



## Map lamp

Push in the map lamp lens to turn the light on or off. This light produces a spot beam for convenient use as a map lamp at night or as a personal lamp for the driver and the passenger.



## Dome lamp

In the DOOR position, the light comes on when any door is opened regardless of the ignition switch position. The light goes out gradually after 30 seconds if the door is closed. However if the ignition switch is ON or all doors are locked, the light will turn off even within 30 seconds.

## ΟΝ

In the ON position, the light stays on at all times.

## 

Do not leave the switch in this position for an extended period of time when the vehicle is not running.

## OFF

In the OFF position, the light stays off at all times even though a door is open.



## Trunk room lamp

The trunk room lamp comes on when the trunk is opened.



## Glove box lamp

The glove box lamp comes on when the glove box is opened.

The parking lights or headlights must be ON for the glove box lamp to function.



## Vanity mirror lamp (if equipped)

Opening the lid of the vanity mirror will automatically turn on the mirror light.

## DEFROSTER

## 

- To prevent damage to the conductors bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the window.
- If you want to defrost and defog on the front windshield. refer to "Windshield Defrosting and Defogging" in this section.



Type B



Rear window defroster

The defroster heats the window to remove frost, fog and thin ice from the interior and exterior of the rear window. while engine is running.

To activate the rear window defroster. press the rear window defroster button located in the center facia switch panel. The indicator on the rear window defroster button illuminates when the defroster is ON.

If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.

The rear window defroster automatically turns off after 20 minutes or when the ignition switch is turned off. To turn off the defroster, press the rear window defroster button again.

#### Outside mirror defroster (if equipped)

If your vehicle is equipped with the outside mirror defroster, it will be operating at the same time when you operate the rear window defroster

## MANUAL CLIMATE CONTROL SYSTEM (IF EQUIPPED)



Temperature control knob
Fan speed control knob
Mode selection knob

4. Air conditioning button (if equipped)

- 5. Air intake control button
- 6. Rear window defroster button

#### OHD046056N

## Heating and air conditioning

- 1. Start the engine.
- 2. Set the mode to the desired position.
- 3. Set the temperature control to the desired position.
- 4. Set the air intake control to the outside (fresh) air position.
- 5. Set the fan speed control to the desired speed.
- 6. If air conditioning is desired, turn the air conditioning system (if equipped) on.



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#### Mode selection

The mode selection knob controls the direction of the air flow through the ventilation system.

Air can be directed to the floor, dashboard outlets, or windshield. Five symbols are used to represent Face, Bi-Level, Floor, Floor-Defrost and Defrost air position.

The MAX A/C mode is used to cool the inside of the vehicle faster. The "OFF" mode is used to turn the blower fan off.



Air is discharged through the face level vents.

If the "MAX A/C" mode is selected, the A/C will turn on automatically and "Recirculation" mode will be activated.



Face-Level (B, D)

Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.



## Bi-Level (B, D, C, E)

Air flow is discharged towards the face and floor.



The fan is turned off.



Floor-Level (C, E, A, D)

Most of the air flow is directed to the floor, with a small amount of the air being directed to the windshield and side window defroster.



Floor/Defrost-Level (A, C, E, D)

Most of the air flow is directed to the floor and the windshield with a small amount directed to the side window defrosters.



Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.



#### Instrument panel vents

If air flow control is not satisfactory, check the instrument panel vents. The outlet port can be opened or closed separately using the horizontal thumbwheel. To close the vent, rotate it left to the maximum position. To open the vent, rotate it right to the desired position.

Also, you can adjust the direction of air delivery from these vents using the vent control lever as shown.



#### **Temperature control**

The temperature control knob allows you to control the temperature of the air flowing from the ventilation system. To change the air temperature in the passenger compartment, turn the knob to the right position for warm and hot air or left position for cooler air.



## Air intake control

This is used to select outside (fresh) air position or recirculated air position. To change the air intake control position, push the control button.

#### **Recirculated air position**



The indicator light on the button is illuminated when the recirculated air position is selected.

With the recirculated air position selected, air from passenger compartment will be drawn through the heating system and heated or cooled according to the function selected.

## **\* NOTICE**

It should be noted that prolonged operation of the heating in recirculated air position will cause fogging of the windshield and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected, will result in excessively dry air in the passenger compartment.

## **A** WARNING

- Continued climate control system operation in the recirculated air position may allow humidity to increase inside vehicle which may fog the glass and obscure visibility.
- Do not sleep in a vehicle with air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.
- Continued climate control system operation in the recirculated air position can cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position as much as possible while driving.

#### Outside (fresh) air position



The indicator light on the button is not illuminated when the outside (fresh) air position is selected.

With the outside (fresh) air position selected, air enters the vehicle from outside and is heated or cooled according to the function selected.



## Fan speed control

The ignition switch must be in the ON position for fan operation.

The fan speed control knob allows you to control the fan speed of the air flowing from the ventilation system. To change the fan speed, turn the knob to the right for higher speed or left for lower speed. *Air conditioning (if equipped)* Push the A/C button to turn the air conditioning system on (indicator light will illuminate). Push the button again to turn the air conditioning system off.

## System operation

## Ventilation

- 1. Set the mode to the 💙 position.
- 2. Set the air intake control to the outside (fresh) air position.
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.

## Heating

- 1. Set the mode to the 😼 position.
- 2. Set the air intake control to the outside (fresh) air position.
- 3. Set the temperature control to the desired position.
- 4. Set the fan speed control to the desired speed.
- 5. If dehumidified heating is desired, turn the air conditioning system (if equipped) on.
- If the windshield fogs up, set the mode to the 🐨 or 🍿 position.

#### **Operation Tips**

- To keep dust or unpleasant fumes from entering the car through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.
- Air for the heating/cooling system is drawn in through the grilles just ahead of the windshield. Care should be taken that these are not blocked by leaves, snow, ice or other obstructions.
- To prevent interior fog on the windshield, set the air intake control to the fresh air position and fan speed to the desired position, turn on the air conditioning system, and adjust temperature control to desired temperature.

#### Air conditioning (if equipped)

All Hyundai Air Conditioning Systems are filled with environmentally friendly R-134a refrigerant which is not damaging to the ozone layer.

- 1. Start the engine. Push the air conditioning button.
- 2. Set the mode to the 💙 position.
- 3. Set the air intake control to the outside air or recirculated air position.
- 4. Adjust the fan speed control and temperature control to maintain maximum comfort.
- When maximum cooling is desired, set the temperature control to the extreme left position, set the mode control to the MAX A/C position, then set the fan speed control to the highest speed.

## **\* NOTICE**

- When using the air conditioning system, monitor the temperature gauge closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause engine overheating. Continue to use the blower fan but turn the air conditioning system off if the temperature gauge indicates engine overheating.
- When opening the windows in humid weather air conditioning may create water droplets inside the vehicle. Since excessive water droplets may cause damage to electrical equipment, air conditioning should only be run with the windows closed.

## Air conditioning system operation tips

- If the vehicle has been parked in direct sunlight during hot weather, open the windows for a short time to let the hot air inside the vehicle escape.
- To help reduce moisture inside of windows on rainy or humid days, decrease the humidity inside the vehicle by operating the air conditioning system.
- During air conditioning system operation, you may occasionally notice a slight change in engine speed as the air conditioning compressor cycles. This is a normal system operation characteristic.
- Use the air conditioning system every month if only for a few minutes to ensure maximum system performance.
- When using the air conditioning system, you may notice clear water dripping (or even puddling) on the ground under the passenger side of the vehicle. This is a normal system operation characteristic.
- Operating the air conditioning system in the recirculated air position does provide maximum cooling, however, continual operation in this mode may cause the air inside the vehicle to become stale.



## Climate control air filter (if equipped)

The climate control air filter installed behind the glove box filters the dust or other pollutants that come into the vehicle from the outside through the heating and air conditioning system. If dust or other pollutants accumulate in the filter over a period of time, the air flow from the air vents may decrease, resulting in moisture accumulation on the inside of the windshield even when the outside (fresh) air position is selected. If this happens, have the climate control air filter replaced by an authorized Hyundai dealer.

## 

- Replace the filter every 10,000 miles (15,000 km) or once a year. If the car is being driven in severe conditions such as dusty, rough roads, more frequent climate control air filter inspections and changes are required.
- When the air flow rate is suddenly decreased, the system should be checked at an authorized dealer.

## Checking the amount of air conditioner refrigerant and compressor lubricant

When the amount of refrigerant is low, the performance of the air conditioning is reduced. Overfilling also has a bad influence on the air conditioning system.

Therefore, if abnormal operation is found, have the system inspected by an authorized Hyundai dealer.

## 

The air conditioning system should be serviced by an authorized Hyundai dealer. Improper service may cause serious injury to the person performing the service.

## **\* NOTICE**

When the performance of the air conditioning system is reduced it is important that the correct type and amount of oil and refrigerant is used. Otherwise, damage to the compressor and abnormal system operation may occur.

## AUTOMATIC CLIMATE CONTROL SYSTEM (IF EQUIPPED)



- 1. Front windshield defrost button
- 2. Rear window defrost button
- 3. Air conditioning button
- 4. Air intake control button

- 5. Temperature control button
- 6. Fan speed control button
- 7. AUTO (automatic control) button
- 8. OFF button

9. Mode selection button10. Air quality system button (if equipped)11. A/C display

#### OHD046066



## Automatic heating and air conditioning

The automatic climate control system is controlled by simply setting the desired temperature.

The Full Automatic Temperature Control (FATC) system automatically controls the heating and cooling system as follows;

1. Push the AUTO button. It is indicated by AUTO on the display. The modes, fan speeds, air intake and air-conditioning will be controlled automatically by temperature setting. 2. Push the TEMP button to set the desired temperature.

If the temperature is set to the lowest setting LO, the air conditioning system will operate continuously.

3. To turn the automatic operation off, press any button except temperature control button. If you press the mode selection button, air-conditioning button, defrost button, air intake control button or fan speed button, the selected function will be controlled manually while other functions operate automatically.

Regardless of the temperature setting, when using automatic operation, the air conditioning system can automatically turn on to decrease the humidity inside the vehicle, even if the temperature is set to warm.



## 

Never place anything over the sensor located on the instrument panel to ensure better control of the heating and cooling system.

## Manual heating and air conditioning

The heating and cooling system can be controlled manually as well by pushing buttons other than the AUTO button. In this case, the system works sequentially according to the order of buttons selected.

When pressing any button except AUTO button while automatic operation, the functions of the buttons not selected will be controlled automatically.

- 1. Start the engine.
- 2. Set the mode to the desired position.
- 3. Set the temperature control to the desired position.
- 4. Set the air intake control to the outside (fresh) air position.
- 5. Set the fan speed control to the desired speed.
- 6. If air conditioning is desired, turn the air conditioning system (if equipped) on.

Press the AUTO button in order to convert to full automatic control of the system.



Mode selection

The mode selection button controls the direction of the air flow through the ventilation system.

The air flow outlet port is converted as follows:



Refer to the illustration in the "Manual climate control system".



Face-Level (B, D)

Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet.



Bi-Level (B, D, C, E)

Air flow is discharged towards the face and floor.



Floor-Level (C, E, A, D)

Most of the air flow is directed to the floor, with a small amount of the air being directed to the windshield and side window defroster.



Floor/Defrost-Level (A, C, E, D)

Most of the air flow is directed to the floor and the windshield with a small amount directed to the side window defrosters.


#### Defrost-level (A, D)

Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.



#### Instrument panel vents

If air flow control is not satisfactory, check the instrument panel vents. The outlet port can be opened or closed separately using the horizontal thumbwheel. To close the vent, rotate it left to the maximum position. To open the vent, rotate it right to the desired position.

Also, you can adjust the direction of air delivery from these vents using the vent control lever as shown.



#### **Temperature control**

The temperature will increase to the maximum HI by pushing the up button. Each push of the button will cause the temperature to increase by  $1^{\circ}F/0.5^{\circ}C$ . The temperature will decrease to the minimum LO by pushing the down button. Each push of the button will cause the temperature to decrease by  $1^{\circ}F/0.5^{\circ}C$ . When set to the lowest temperature setting, the air conditioning will operate continuously.

#### **Temperature conversion**

If the battery has been discharged or disconnected, the temperature mode display will reset to Fahrenheit.

This is normal condition. You can switch the temperature mode between Fahrenheit to Centigrade as follows; While depressing the AUTO button, depress the OFF button for 3 seconds or more. The display will change from Fahrenheit to Centigrade, or from Centigrade to Fahrenheit.



#### Air intake control

This is used to select outside (fresh) air position or recirculated air position. To change the air intake control position, push the control button.

#### **Recirculated air position**



The indicator light on the button is illuminated when the recirculated air position is selected.

With the recirculated air position selected, air from passenger compartment will be drawn through the heating system and heated or cooled according to the function selected.

#### Outside (fresh) air position



The indicator light on the button is not illumimated when the outside (fresh) air position is selected.

With the outside (fresh) air position selected, air enters the vehicle from outside and is heated or cooled according to the function selected.

#### **\* NOTICE**

It should be noted that prolonged operation of the heating in recirculated air position will cause fogging of the windshield and side windows and the air within the passenger compartment will become stale.

In addition, prolonged use of the air conditioning with the recirculated air position selected, will result in excessively dry air in the passenger compartment.

# A WARNING

- Continued climate control system operation in the recirculated air position may allow humidity to increase inside vehicle which may fog the glass and obscure visibility.
- Do not sleep in a vehicle with air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.
- Continued climate control system operation in the reciruclated air position can cause drowsiness or sleepiness, and loss of vehicle control. Set the air intake control to the outside (fresh) air position as much as possible while driving.



#### Air quality control (if equipped)

The air inflow from outside vehicle can be automatically controlled. Press the button to activate the air quality control system.

When using AQS mode, AQS(Air Quality Control System) automatically senses outdoor air pollutants and minimizes them from entering the vehicle, however, unpleasant or foul odors that might be present may still be noticeable within the vehicle.

#### Exhaust gas cutoff mode :

Air enters the vehicle from the outside.

But if exhaust gas enters the vehicle from the outside, the exhaust gas cutoff mode is automatically converted from the outside air position to the recirculated air position to prevent exhaust gas from entering the vehicle.

# **\* NOTICE**

It should be noted that prolonged operation of the heating system in recirculation mode will give rise to misting of the windshield and side windows and the air within the passenger compartment will become stale. In addition, prolonged use of the air conditioning with the recirculation mode selected may result in the air within the passenger compartment becoming excessively dry.

# 

If the windows fog up with the Recirculation or A.Q.S mode selected, set the air intake control to the Fresh air position or A.Q.S control to "OFF".



Fan speed control

The fan speed can be set to the desired speed by pressing the fan speed control button.

The higher the fan speed is, the more air is delivered.

Pressing the OFF button turns off the fan.



#### Air conditioning

Push the A/C button to turn the air conditioning system on (indicator light will illuminate).

Push the button again to turn the air conditioning system off.



TEMP A AUTO OFF OHD046076

#### Outside tempmeter

The current outer temperature is displayed in 1°C where the temperature range is between -40°F ~ 140°F (-40°C ~ 60°C).

#### OFF mode

Push the OFF button to turn off the air climate control system. However you can still operate the mode and air intake buttons as long as the ignition switch is in the position ON.

# WINDSHIELD DEFROSTING AND DEFOGGING

# CAUTION - Windshield heating

Do not use the view or mostion during cooling operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up, causing loss of visibility. In this case, set the mode selection knob or button to the view position and fan speed control knob or button to the lower speed.

- For maximum defrosting, set the temperature control to the extreme right/hot position and the fan speed control to the highest speed.
- If warm air to the floor is desired while defrosting or defogging, set the mode to the floor-defrost position.
- Before driving, clear all snow and ice from the windshield, rear window, outside rear view mirrors, and all side windows.
- Clear all snow and ice from the hood and air inlet in the cowl grill to improve heater and defroster efficiency and to reduce the probability of fogging up inside of the windshield.



#### Manual climate control system

To defog inside windshield

- 1. Select any fan speed except 0 position.
- 2. Select desired temperature.
- 3. Select the  $\checkmark$  or  $\checkmark$  position.
- 4. The outside (fresh) air and air conditioning will be selected automatically.

If the air-conditioning and outside (fresh) air position are not selected automatically, press the corresponding button manually.



To defrost outside windshield

- 1. Set the fan speed to the highest (extreme right) position.
- 2. Set the temperature to the extreme hot position.
- 3. Select the  $(\mathfrak{M})$  position.
- 4. The outside (fresh) air and air conditioning will be selected automatically.



#### Automatic climate control system

- To defog inside windshield
- 1. Select desired fan speed.
- 2. Select desired temperature.
- 3. Press the defrost button ( ).
- 4. The air-conditioning will be turned on according to the detected ambient temperature, outside (fresh) air position and higher fan speed will be selected automatically.

If the air-conditioning, outside (fresh) air position and higher fan speed are not selected automatically, adjust the corresponding button or knob manually.

If the (m) position is selected, lower fan speed is controlled to higher fan speed.



To defrost outside windshield

- 1. Set fan speed to the highest (extreme right) position.
- 2. Set temperature to the extreme hot (HI) position.
- 3. Press the defrost button ( m ).
- 4. The air-conditioning will be turned on according to the detected ambient temperature and outside (fresh) air position will be selected automatically.
  If the (m) position is selected, lower fan

speed is controlled to higher fan speed.

# **Defogging logic**

To reduce the probability of fogging up the inside of the windshield, the air intake or air conditioning are controlled automatically according to certain conditions such as to the conditions. To cancel or return the defogging logic, do the followings.



#### Manual climate control system

- 1. Turn the ignition switch to the ON position.
- 2. Turn the mode selection knob to the defrost position  $(\overline{\text{m}})$ .
- 3. Push the air intake control button ( <>> ) at least 5 times within 3 seconds.

The indicator light in the air intake control button will blink 3 times with 0.5 second of interval. It indicates that the defogging logic is canceled or returned to the programmed status.

If the battery has been discharged or disconnected, it is reset to the defog logic status.

Automatic climate control system

OHD046106

0|0

- 1. Turn the ignition switch to the ON position.
- Select the defrost position pressing defrost button (m).

The A/C display blinks 3 times with 0.5 second of interval. It indicates that the defogging logic is canceled or returned to the programmed status.

If the battery has been discharged or disconnected, it is reset to the defog logic status.

# STORAGE COMPARTMENT

These compartments can be used to store small items required by the driver or passengers.

# 

- To avoid possible theft, do not leave valuables in the storage compartment.
- Always keep the storage compartment covers closed while driving. Do not attempt to place so many items in the storage compartment that the storage compartment cover can not close securely.

# WARNING - Flammable materials

Do not store cigarette lighters, propane cylinders, or other flammable/explosive materials in the vehicle. These items may catch fire and/or explode if the vehicle is exposed to hot temperatures for extended periods.



# Center console storage (if equipped)

These compartments can be used to store small items required by the driver or front passenger.

To open the center console storage pull up the lever.



#### Glove box

To open the glove box, pull the handle and the glove box will automatically open. Close the glove box after use.

# A WARNING

To reduce the risk of injury in an accident or sudden stop, always keep the glove box door closed while driving.



#### Sunglass holder

To open the sunglass holder, press the cover and the holder will slowly open. Place your sunglasses in the compartment door with the lenses facing out. Push to close.

# 

Make sure the sunglass holder is closed while driving.

# A WARNING

- Do not keep objects except sunglass inside the sunglass holder. Such objects can be thrown from the holder in the event of a sudden stop or an accident, possibly injuring the passengers in the vehicle.
- Do not open the sunglass holder while the vehicle is moving. The rear view mirror of the vehicle can be blocked by an open sunglass holder.



# Multi box (if equipped)

To open the cover, push the button. It can be used for storing small items.

# **INTERIOR FEATURES**



# 

- Do not hold the lighter in after it is already heated because it will overheat.
- Only a genuine Hyundai lighter should be used in the cigarette lighter socket. The use of plug-in accessories (shavers, hand-held vacuums, and coffee pots, for example) may damage the socket or cause electrical failure.
- If the lighter does not pop out within 30 seconds, remove it to prevent overheating.



#### Ashtray

# A WARNING - Ashtray use

- Do not use the vehicle's ashtrays as waste receptacles.
- Putting lit cigarettes or matches in an ashtray with other combustible materials may cause a fire.

The front ashtray may be opened by pulling the ashtray lid. To clean the ashtray, the plastic receptacle should be removed by lifting the plastic ash receptacle upward and pulling it out.

#### **Cigarette lighter**

For the cigarette lighter to work, the ignition switch, must be in the ACC position or the ON position.

To use the cigarette lighter, push it all the way into its socket. When the element has heated, the lighter will pop out to the "ready" position.

Do not hold the cigarette lighter pressed in. This can damage the heating element and create a fire hazard.

If it is necessary to replace the cigarette lighter, use only a genuine Hyundai replacement or its approved equivalent.

#### Cup holder

# A WARNING - Hot liquids

- Do not place uncovered cups of hot liquid in the cup holder while the vehicle is in motion. If the hot liquid spills, you could be burned. Such a burn to the driver could cause a loss of control of the vehicle.
- To reduce the risk of personal injury in the event of sudden stop or collision, do not place uncovered or unsecured bottles, glasses, cans, etc., in the cup holder while the vehicle is in motion.



Cups or small beverage cans may be placed in the cup holders.



#### Sunvisor

Use the sunvisor to shield direct light through the front or side windows.

To use a sunvisor, pull it downward.

To use a sunvisor for a side window, pull it downward, unsnap it from the bracket (1) and swing it to the side (2).

To use the vanity mirror, pull down the visor and slide the mirror cover (3).

Adjust the sunvisor extension panel forward or backward (4) (if equipped).

# CAUTION - Vanity mirror lamp (if equipped)

Close the vanity mirror cover securely and return the sunvisor to its original position after use. If the vanity mirror is not closed securely, the lamp will stay on and could result in battery discharge and possible sunvisor damage.



#### **Power outlet**

The power outlet is designed to provide power for mobile telephones or other devices designed to operate with vehicle electrical systems. The devices should draw less than 10 amps with the engine running.

# 

- Use power outlet only when the engine is running and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the engine off could cause the battery to discharge.
- Only use 12V electric accessories which are less than 10A in electric capacity.
- Adjust the air-conditioner or heater to the lowest operating level when using the power outlet.
- Close the cover when not in use.
- Some electronic devices can cause electronic interference when plugged into a vehicle's power outlet. These devices may cause excessive audio static and malfunctions in other electronic systems or devices used in your vehicle.



#### **Digital clock**

Whenever the battery terminals, related fuses are disconnected, you must reset the time.

When the ignition switch is in the ACC or ON position, the clock buttons operate as follows:

# **A** WARNING

Do not adjust the clock while driving. You may lose your steering control and cause severe personal injury or accidents.

#### • HOUR:

Pressing the "H" button (2) with your finger, a pencil or similar object will advance the time displayed by one hour.

• MINUTE:

Pressing the "M" button (3) with your finger, a pencil or similar object will advance the time displayed by one minute.

• RESET:

To clear away minutes, press the "R" button (1) with your finger, a pencil or similar object. Then the clock will be set precisely on the hour.

For example, if the "R" button is pressed while the time is between 9:01 and 9:29, the display will be reset to 9:00.

9:01 ~ 9:29 display changed to 9:00 9:30 ~ 9:59 display changed to 10:00



# Shopping bag holder

To use the holder, push the lower portion.

# 

Do not hang a bag weighing more than 7 lbs. (3 kg). It may cause damage to the shopping bag holder.



#### **Clothes hanger**

To use the hanger, pull down the upper portion of hanger.

# 

Do not hang heavy clothes, since those may damage the hook.



# Luggage net (holder) (if equipped)

To keep items from shifting in the cargo area, you can use the four holders located in the cargo area to attach the luggage net.

Contact your authorized Hyundai dealer to obtain a luggage net.

# 

To prevent damage to the goods or the vehicle, care should be taken when carrying fragile or bulky objects in the luggage compartment.

# A WARNING

Avoid eye injury. DO NOT overstretch. The luggage net ALWAYS keep your face and body out of its recoil path. DO NOT use when the strap has visible signs of wear or damage.

#### **AUDIO SYSTEM**





#### Antenna

#### Fixed Rod Antenna (if equipped)

Your car uses a fixed rod antenna to receive both AM and FM broadcast signals. This antenna is a removable type. To remove the antenna, turn it counterclockwise. To install the antenna, turn it clockwise.

# 

- Be sure to remove the antenna before washing the car in an automatic car wash or it may be damaged.
- When reinstalling your antenna, it is important that it is fully tightened to ensure proper reception.

Glass antenna (if equipped)

When the radio power switch is turned on while the ignition key is in either the ON or ACC position, your car will receive both AM and FM broadcast signals through the antenna in the rear window glass.

# 

 Do not clean the inside of the rear window glass or quarter glass with a cleaner or use a scraper to remove any foreign deposits as this may cause damage to the antenna elements.

Features of your vehicle

• Avoid adding metallic coating such as Ni, Cd, and so on. These can interfere with AM/FM reception.



# Audio remote control (if equipped)

The steering wheel audio remote control button is installed to promote safe driving.

#### \* NOTICE

Do not operate audio remote control buttons simultaneously.

#### MODE (1)

Press the button to select Radio, Tape (if equipped) or CD (compact disc).

#### VOL (▲/▼) (3)

- Press the up button (▲) to increase volume.
- Press the down button (▼) to decease volume.

#### SEEK (▲/▼) (2)

If the SEEK button is pressed for 0.8 second or more, it will work as follows in each mode.

#### **RADIO** mode

It will function as the AUTO SEEK select button.

#### TAPE mode

It will function as the FF/REW button.

#### CDP mode

It will function as the FF/REW button.

CDC mode It will function as the DISC UP/DOWN button. If the SEEK button is pressed for less than 0.8 second, it will work as follows in each mode.

#### **RADIO mode**

It will function as the PRESET STATION select buttons.

#### TAPE mode

It will function as the AUTO MUSIC Search(AMS) button.

#### CDP mode

It will function as the TRACK UP/DOWN button.

#### CDC mode

It will function as the TRACK UP/DOWN button.

Detailed information for audio control buttons is described in the following pages in this section.

# FM reception

#### How car audio works

AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your car. This signal is then received by the radio and sent to your car speakers. When a strong radio signal has reached your vehicle, the precise engineering of your audio system ensures the best possible quality reproduction. However, in some cases the signal coming to your vehicle may not be strong and clear. This can be due to factors such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.



AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long, low frequency radio waves can follow the curvature of the earth rather than travelling straight out into the atmosphere. In addition, they curve around obstructions so that they can provide better signal coverage.



FM broadcasts are transmitted at high frequencies and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade at short distances from the station. Also, FM signals are easily affected by buildings, mountains, or other obstructions. These can result in certain listening conditions which might lead you to believe a problem exists with your radio. The following conditions are normal and do not indicate radio trouble:



- Fading As your car moves away from the radio station, the signal will weaken and sound will begin to fade. When this occurs, we suggest that you select another stronger station.
- Flutter/Static Weak FM signals or large obstructions between the transmitter and your radio can disturb the signal causing static or fluttering noises to occur. Reducing the treble level may lessen this effect until the disturbance clears.



- Station Swapping As a FM signal weakens, another more powerful signal near the same frequency may begin to play. This is because your radio is designed to lock onto the clearest signal. If this occurs, select another station with a stronger signal.
- Multi-Path Cancellation Radio signals being received from several directions can cause distortion or fluttering. This can be caused by a direct and reflected signal from the same station, or by signals from two stations with close frequencies. If this occurs, select another station until the condition has passed.

#### Using a cellular phone or a twoway radio

When a cellular phone is used inside the vehicle, noise may be produced from the audio equipment. This does not mean that something is wrong with the audio equipment. In such a case, use the cellular phone at a place as far as possible from the audio equipment.

# 

When using a communication system such a cellular phone or a radio set inside the vehicle, a separate external antenna must be fitted. When a cellular phone or a radio set is used with an internal antenna alone, it may interfere with the vehicle's electrical system and adversely affect safe operation of the vehicle.

# **A** WARNING

We recommend that you never use a cell phone while driving. This could result in loss of control, and an accident that may cause death, serious injury, or property damage. You must stop at a safe place to use a cellular phone.

# Care of cassette tapes (if equipped)

- Because the thickness of a cassette tape with the total playback time of over 60 minutes (C-60) are too thin, we suggest that you do not use any of them to avoid having tapes being tangled.
- To achieve better sound quality, periodically clean the tape head using a cotton stick with colorless alcohol (once per month).
- If a tape is too loose, fasten it to reel by winding with objects like a pencil.
- Because dust or foreign objects on a cassette tape may damage the playback head, always store tapes in their cases when not in use.
- Make sure cassette tapes are kept away from magnetic devices (TV, stereo system, etc) in order to achieve better sound quality.
- Be certain that no objects or substances other than cassette tapes are inserted into the cassette tape player.
- Because tape media can be distorted when exposed to direct sunlight, Do not leave cassette tapes on the seats, dashboard or near the back windshield.

# Care of disc (if equipped)

- If the temperature inside the car is too high, open the car windows for ventilation before using your car audio.
- It is illegal to copy and use MP3/WMA/AAC/WAVE files without permission(If equipped with M465, use only MP3/WMA, If equipped with M445, use only CD-DA). Use CDs that are created only by lawful means.
- Do not apply volatile agents such as benzene and thinner, normal cleaners and magnetic sprays made for analogue disc onto CDs.
- To prevent the disc surface from getting damaged. Hold and carry CDs by the edges or the edges of the center hole only.
- Clean the disc surface with a piece of soft cloth before playback (wipe it from the center to the outside edge).
- Do not damage the disc surface or attach pieces of sticky tape or paper onto it.
- Make sure on undesirable matter other than CDs are inserted into the CD player (Do not insert more than one CD at a time).
- Keep CDs in their cases after use to protect them from scratches or dirt.

 Depending on the type of CD-R/CD-RW CDs, certain CDs may not operate normally according to manufacturing companies or making and recording methods. In such circumstances, if you still continue to use those CDs, they may cause the malfunction of your car audio system.

#### \* NOTICE - Playing an Incompatible Copy-Protected Audio CD

Some copy-protected CDs, which do not comply with the international audio CD standards(Red Book), may not play on your car audio. Please note that if you try to play copy protected CDs and the CD player of your car audio is not performing to your expectation, this may be caused by those CDs and not a defect in the device itself. Please replace those CDs.

#### STEREO RADIO PLAYER OPERATION (M420) (IF EQUIPPED)



- 1. POWER ON-OFF, VOLUME Control Knob
- 2. BAND Select Button
- 3. TUNE/MODE Select Knob
- 4. AUTO SEEK Select Button
- 5. SCAN Button
- 6. PRESET Station Select Buttons

HD\_420 AM

# 1. POWER ON-OFF Control Knob

The radio unit may be operated when the ignition key is in the "ACC" or "ON" position. Press the knob to switch the power on. The LCD shows the radio frequency in the radio mode or the tape direction indicator in the tape mode. To switch the power off, press the knob again.

#### **VOLUME** Control

Rotate the knob clockwise to increase the volume and turn the knob counterclockwise to reduce the volume.

#### AVC(Auto Volume Control) Feature

As the Vehicle runs faster, Vehicle running noise also becomes louder. To offset this noise, the unit has \*AVC

feature that increases its volume level automatically when vehicle's speed gets faster.

# 2. BAND Select Button

Pressing the FM/AM button changes the AM, FM1 and FM2 bands.

## 3. TUNE/MODE Select Knob

Rotate the knob clockwise to increase the frequency and turn the knob counterclockwise to reduce the frequency.

#### Mode Select Knob

Pressing the MODE knob changes the BASS, MIDDLE, TREBLE, FADER and BALANCE mode.

The mode selected is shown on the display.

After selecting the each mode, rotate the mode select knob clockwise or counterclockwise.

#### **BASS Control**

To increase the BASS, rotate the knob clockwise, while to decrease the BASS, rotate the knob counterclockwise.

#### **MIDDLE Control**

To increase the MIDDLE, rotate the knob clockwise, while to decrease the MID, rotate the knob counterclockwise.

#### **TREBLE Control**

To increase the TREBLE, rotate the knob clockwise, while to decrease the TRE-BLE, rotate the knob counterclockwise.

#### FADER Control

Rotate the control knob clockwise to emphasize rear speaker sound (front speaker sound will be attenuated). When the control knob is turned counterclockwise, front speaker sound will be emphasized (rear speaker sound will be attenuated).

#### **BALANCE** Control

Rotate the knob clockwise to emphasize right speaker sound (left speaker sound will be attenuated). When the control knob is turned counterclockwise, left speaker sound will be emphasized (right speaker sound will be attenuated).

#### 4. AUTO SEEK Select Button (Automatic Channel Selection)

Press the AUTO SEEK select button. When the  $\land$  side is pressed, the unit will automatically tune to the next higher frequency and when the  $\lor$  side is pressed, it will automatically tune to the next lower frequency.

#### 5. SCAN Button

When you press the button, frequency is changed and the next channel is received automatically. To stay on a station, press the SCAN button again.

#### 6. PRESET STATION Select Buttons

Six stations for AM, FM1 and FM2 respectively can be preset in the electronic memory circuit.

#### HOW TO PRESET STATIONS

Six AM and twelve FM stations may be programmed into the memory of the radio. Then, by simply pressing the AM / FM select button and/or one of the six station select buttons, you may recall any of these stations instantly. To program the stations, follow these steps:

- Press AM/FM selector to set the band for AM, FM1 and FM2.
- Select the desired station to be stored by seek or manual tuning.
- Determine the preset station select button you wish to use to access that station.
- Press the station select button for more than two seconds. A select button indicator will show in the display indicating which select button you have depressed. The frequency display will flash after it has been stored into the memory. You should then release the button, and proceed to program the next desired station. A total of 24 stations can be programmed by selecting one AM and two FM station per button.

• When completed, any preset station may be recalled by selecting AM, FM1 or FM2 band and the appropriate station button.

# 

- Do not place beverages close to the audio system. The audio system mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.

#### CASSETTE TAPE PLYER OPERATION (M420) (IF EQUIPPED)



- 1. Tape Program/AUX Button
- 2. Tape Eject Button
- 3. DOLBY Button
- 4. REPEAT (RPT) Button
- 5. AUTO MUSIC Search (AMS) Button
- 6. FF/REW Button

HD\_420

#### 1. TAPE PROGRAM/AUX Button

This allows you to play the reverse side of the tape by merely pressing the program button. The PLAY and an arrow will appear in the display to show tape direction.

- If you press this button more than 0.8 seconds. you can change to AUX mode.
- AUX mode is available only when AUX jack is plugged in and change back to last mode if you pull it out.

## 2. TAPE EJECT Button

- When the button is pressed with a cassette loaded, the cassette will eject.
- When the button is pressed during FF/REW mode, the cassette will eject.

## 3. DOLBY Button

If you get background noise during tape PLAY, you can reduce this considerably by merely pressing the DOLBY button. If you want to cancel the DOLBY feature, press the button again.

# 4. REPEAT (RPT) Button

- To repeat the track you are currently listening to, press the RPT button. To cancel , press again.
- If you do not release RPT operation when the track ends, it will automatically be replayed.

This process will be continued until you push the button again.

#### 5. AUTO MUSIC Search (AMS) Button

Press the button to find the starting point of each song in a prerecorded music tape. The quiet space between songs (must have at least a 4 sec. gap) can be identified by the AUTO MUSIC Search button.

- Pressing the  $\land$  will play the beginning of the next music segment.
- Pressing the ∨ will start replay at the beginning of the music just listened to.
- To stop FF or REW action, press the button again.

# 6. FF/REW Button

- Fast forward tape winding starts when the FF button is pressed during PLAY or REW mode.
- PLAY starts when the FF button is pressed again during FF mode.
- Tape rewinding starts when the REW button is pressed during PLAY or FF mode.
- PLAY starts when the REW button pressed again during REW mode.

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- o Do not insert anything like coins into the player slot as damage to the unit may occur.
- o Do not place beverages close to the audio system. The playback mechanism may be damaged if you spill them.
- o Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.
- o When no device is connected to the AUX cable, please pull out the cable from the JACK on the car. (AUX MODE is operational and noise may heard in the AUX MODE.)

# STEREO RADIO PLAYER OPERATION (M445) (IF EQUIPPED)



- 1. POWER ON-OFF, VOLUME Control Knob
- 2. Band Select Buttons
- 3. TUNE/MODE Select Knob
- 4. AUTO SEEK Select Button
- 5. SCAN Button
- 6. EQ Button
- 7. PRESET STATION Select Buttons

HD\_445 AM

#### 1. POWER ON-OFF Control Knob

The radio unit may be operated when the ignition key is in the "ACC" or "ON" position. Press the knob to switch the power on. The LCD shows the radio frequency in radio mode or displays the CD track in CD mode. To switch the power off, press the knob again.

#### **VOLUME Control**

Rotate the knob clockwise to increase the volume and turn the knob counterclockwise to reduce the volume.

#### AVC(Auto Volume Control) Feature

As the Vehicle runs faster, Vehicle running noise also becomes louder.

To offset this noise, the unit has \*AVC feature that increases its volume level automatically when vehicle's speed gets faster.

#### 2. BAND Select Buttons

*FM Selection Button* Pressing the FM button changes the FM1 and FM2 bands.

#### AM Selection Button

Pressing the AM button selects the AM band. AM mode is displayed on LCD.

#### 3. TUNE/MODE Select Knob

Rotate the knob clockwise to increase the frequency and turn the knob counterclockwise to reduce the frequency.

#### Mode Select Knob

Pressing the MODE knob changes the BASS, MIDDLE, TREBLE, FADER and BALANCE mode.

The mode selected is shown on the display.

After selecting the each mode, rotate the mode select knob clockwise or counterclockwise.

#### **BASS Control**

To increase the BASS, rotate the knob clockwise, while to decrease the BASS, rotate the knob counterclockwise.

#### **MIDDLE Control**

To increase the MIDDLE, rotate the knob clockwise, while to decrease the MID-DLE, rotate the knob counterclockwise.

#### **TREBLE** Control

To increase the TREBLE, rotate the knob clockwise, while to decrease the TRE-BLE, rotate the knob counterclockwise.

#### FADER Control

Rotate the control knob clockwise to emphasize rear speaker sound (front speaker sound will be attenuated). When the control knob is turned counterclockwise, front speaker sound will be emphasized (rear speaker sound will be attenuated).

#### **BALANCE** Control

Rotate the knob clockwise to emphasize right speaker sound (left speaker sound will be attenuated). When the control knob is turned counterclockwise, left speaker sound will be emphasized (right speaker sound will be attenuated).

#### 4. AUTO SEEK Select Button (Automatic Channel Selection)

Press the AUTO SEEK select button. When the  $\land$  side is pressed, the unit will automatically tune to the next higher frequency and when the  $\lor$  side is pressed, it will automatically tune to the next lower frequency.

#### 5. SCAN Button

When you press the button, frequency is changed and the next channel is received automatically. To stay on a station, press the SCAN button again.

#### 6. EQ Button

Press the EQ button to select the CLAS-SIC, POPS, ROCK, JAZZ and OFF MODE for the desired tone quality. Each press of the button changes the display as follows;

CLASSIC→POPS→ROCK→JAZZ→DEFEAT

#### 7. PRESET STATION Select Buttons

Six stations for AM, FM1 and FM2 respectively can be preset in the electronic memory circuit.

#### HOW TO PRESET STATIONS

Six AM and twelve FM stations may be programmed into the memory of the radio. Then, by simply pressing the AM / FM select buttons and/or one of the six station select buttons, you may recall any of these stations instantly. To program the stations, follow these steps:

- Press AM/FM selector to set the band for AM, FM1 and FM2.
- Select the desired station to be stored by seek or manual tuning.
- Determine the preset station select button you wish to use to access that station.

- Press the station select button for more than two seconds. A select button indicator will show in the display indicating which select button you have depressed. The frequency display will flash after it has been stored into the memory. You should then release the button, and proceed to program the next desired station. A total of 24 stations can be programmed by selecting one AM and two FM station per button.
- When completed, any preset station may be recalled by selecting AM, FM1 or FM2 band and the appropriate station button.

# 

- Do not place beverages close to the audio system. The audio system mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.

#### COMPACT DISC PLAYER OPERATION (M445) (IF EQUIPPED)



- 1. CD/AUX Select Button
- 2. Track Up/Down Button
- 3. FF/REW Button
- 4. REPEAT (RPT) Button
- 5. CD SCAN Button
- 6. CD Eject Button
- 7. RANDOM (RDM) Button

HD\_445 AM

# 1. CD/AUX Select Button

- Insert the CD with the label facing upward.
- Insert the CD to start CD playback, during radio operation.
- When a disc is in the CD deck, if you press the CD button the CD player will begin playing even if the radio player is being used.
- The CD player can be used when the ignition switch is in either the "ON" or "ACC" position.
- Push the CD button to start CD playback without pushing Power ON-OFF control knob. (Only when a CD is in the deck.
- If you press this button you can change to AUX mode.
- AUX mode is available only when AUX jack is plugged in and change back to last mode if you pull it out.

# **\*** NOTICE

- Do not stick paper or tape etc., on the label side or the recording side of any discs, as it may cause a malfunction.
- The unit cannot play a CD-R(Recordable CD) and CD-RW(Rewritable CD) that is not finalized. Please refer to the manual of CD-R/CD-RW recoder or CD-R/CD-RW software for more information on finalization process.
- Depending on the recording status, some CD-Rs/CD-RWs may not be played on this unit.

## 2. TRACK UP/DOWN Button

- The desired track on the disc currently being played can be selected using the track number.
- Press ∧ button once to skip forward to the beginning of the next track.
   Press ∨ within a second after playback begins to quickly move backward through a CD.

If you press  $\lor$  after more than a second, it will take you to the beginning of the track you are now listening to.

# 3. FF/REW Button

If you want to fast forward or reverse through the compact disc track, push and hold the FF or REW button.

When you release the button, the compact disc player will resume playing.

# 4. REPEAT (RPT) Button

- To repeat the track you are currently listening to, press the RPT button. To cancel, press it again.
- If you do not release RPT operation when the track ends, it will automatically be replayed.

This process will be continued until you push the button again or turn the radio OFF then ON.

## 5. CD SCAN Button

- To playback the first 10 seconds of each track, press the CD SCAN button.
- Press the CD SCAN button again within 10 sec. when you have reached the desired track.

## 6. CD EJECT Button

When the button is pressed with a CD loaded, the CD will eject.

Forcing to eject : To force to eject a CD, press this button for more than 3 seconds.

(Do this only when a CD is jammed and you can not eject it in the normal way e.g.) in case that you have inserted 2 CDs by mistake)

# 7. RANDOM (RDM) Button

Press the RDM button to listen the tracks in random, rather than sequential, order. Press it again to cancel random play.

# **\* NOTICE**

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range by using the vehicle's air conditioning or heating system.
- When replacing the fuse, replace it with a fuse having the correct capacity.
- All stored bookmarks are all erased when the car battery is disconnected or power to the vehicle is lost. If this occurs, the bookmarks will have to be reset.

- This equipment is designed to be used only in a 12 volt DC battery system with negative ground.
- This unit is made of precision parts. Do not attempt to disassemble or adjust any parts.
- When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from the outside.
- Do not expose this equipment (including the speakers and CD) to water or excessive moisture.

# 

- Do not insert warped or poor quality discs into the CD player as damage to the unit may occur.
- Do not insert anything like coins into the player slot as damage to the unit may occur.
- Do not place beverages close to the audio system. The playback mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.

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#### (Continued)

- Off-road or rough surface driving may cause the compact disc to skip. Do not use the compact disc when driving in such conditions as damage to the compact disc face could occur.
- Do not attempt to grab or pull the compact disc out while the disc is being pulled into the audio unit by the self-loading mechanism. Damage to the audio unit and compact disc could occur.
- Avoid using recorded compact discs in your audio unit. Original compact discs are recommended.
- When using the EQ funtion, turn off the EQ funtion of the device on the AUX input.
- When no device is connected to the AUX cable, please pull out the cable from the JACK on the car. (AUX MODE is operational and noise may heard in the AUX MODE.)

# STEREO RADIO PLAYER OPERATION (M465) (IF EQUIPPED)



- 1. POWER ON-OFF, VOLUME Control Knob
- 2. BAND Select Button
- 3. TUNE/AUDIO Control Knob
- 4. AUTO SEEK Select Button
- 5. SCAN Button
- 6. EQ Button
- 7. PRESET Station Select Buttons
- 8. AUDIO Mode Select

HD\_465 AM

#### 1. POWER ON-OFF Control Knob

The radio unit may be operated when the ignition key is in the "ACC" or "ON" position. Press the knob to switch the power on. The LCD shows the radio frequency in the radio mode, the tape direction indicator in the tape mode or CD track in either the CD mode or CD AUTO CHANGER mode. To switch the power off, press the knob again.

#### **VOLUME Control**

Rotate the knob clockwise to increase the volume and turn the knob counterclockwise to reduce the volume.

#### AVC(Auto Volume Control) Feature

As the Vehicle runs faster, Vehicle running noise also becomes louder. To offset this noise, the unit has \*AVC feature that increases its volume level automatically when vehicle's speed gets faster.

#### 2. BAND Select Button

Pressing the FM/AM button changes the AM, FM1 and FM2 bands. The mode selected is shown on the display.

#### 3. TUNE/AUDIO Control Knob

Rotate the knob clockwise to increase the frequency and turn the knob counterclockwise to reduce the frequency.

#### **AUDIO Contrl Knob**

Pressing the AUDIO Mode select button changes the BASS, MIDDLE, TREBLE, FADER and BALANCE mode. The mode selected is shown on the display.

#### **BASS Control**

To increase the BASS, rotate the knob clockwise, while to decrease the BASS, rotate the knob counterclockwise.

#### **MIDDLE Control**

To increase the MIDDLE, rotate the knob clockwise, while to decrease the MID, rotate the knob counterclockwise.

#### TREBLE Control

To increase the TREBLE, rotate the knob clockwise, while to decrease the TRE-BLE, rotate the knob counterclockwise.

#### FADER Control

Rotate the control knob clockwise to emphasize rear speaker sound (front speaker sound will be attenuated). When the control knob is turned counterclockwise, front speaker sound will be emphasized (rear speaker sound will be attenuated).

#### **BALANCE** Control

Rotate the knob clockwise to emphasize right speaker sound (left speaker sound will be attenuated). When the control knob is turned counterclockwise, left speaker sound will be emphasized (right speaker sound will be attenuated).

#### 4. AUTO SEEK Select Button (Automatic Channel Selection)

Press the AUTO SEEK select button. When the  $\land$  side is pressed, the unit will automatically tune to the next higher frequency and when the  $\lor$  side is pressed, it will automatically tune to the next lower frequency.

#### 5. CD SCAN Button

- To playback the first 10 seconds of each track, press the CD SCAN button.
- Press the CD SCAN button again within 10 sec. when you have reached the desired track.

#### 6. EQ Button

Press the EQ button to select the CLAS-SIC, POPS, ROCK, JAZZ and OFF MODE for the desired tone quality. Each press of the button changes the display as follows;

CLASSIC→POPS→ROCK→JAZZ→DEF	EAT
<b>A</b>	

#### 7. PRESET STATION Select Buttons

Six stations for AM, FM1 and FM2 respectively can be preset in the electronic memory circuit.

#### HOW TO PRESET STATIONS

Six AM and twelve FM stations may be programmed into the memory of the radio. Then, by simply pressing the AM / FM select button and/or one of the six station select buttons, you may recall any of these stations instantly. To program the stations, follow these steps:

- Press AM/FM selector to set the band for AM, FM1 and FM2.
- Select the desired station to be stored by seek or manual tuning.
- Determine the preset station select button you wish to use to access that station.
- Press the station select button for more than two seconds. A select button indicator will show in the display indicating which select button you have depressed. The frequency display will flash after it has been stored into the memory. You should then release the button, and proceed to program the next desired station. A total of 24 stations can be programmed by selecting one AM and two FM station per button.

• When completed, any preset station may be recalled by selecting AM, FM1 or FM2 band and the appropriate station button.

#### 8. AUDIO Mode select Button

Pressing the AUDIO Mode select button changes the BASS, MIDDLE, TREBLE, FADER and BALANCE mode. The mode selected is shown on the display.

After selecting the each mode, rotate the TUNE knob clockwise or counterclockwise.

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- Do not place beverages close to the audio system. The audio system mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.

#### CASSETTE TAPE PLAYER OPERATION (M465) (IF EQUIPPED)



- 1. TAPE PROGRAM Button
- 2. TAPE EJECT Button
- 3. Auto Music Search (AMS) Button
- 4. DOLBY Button
- 5. FF/REW Button
- 6. REPEAT (RPT) Button
- 7. EQ Button

HD\_465 AM

# 1. TAPE PROGRAM Button

This allows you to play the reverse side of the tape by merely pressing the program button. The PLAY and an arrow will appear in the display to show tape direction.

# 2. TAPE EJECT Button

- When the EJECT button is pressed with a cassette loaded, the cassette will eject.
- When the EJECT button is pressed during FF/REW mode, the cassette will eject.

#### 3. AUTO MUSIC Search (AMS) Button

Press the button to find the starting point of each song in a prerecorded music tape. The quiet space between songs (must have at least a 4 sec. gap) can be identified by the AUTO MUSIC SEARCH button.

- Pressing the  $\land$  will play the beginning of the next music segment.
- Pressing the V will start replay at the beginning of the music just listened to.
- To stop FF or REW action, press the button again.

# 4. DOLBY Button

If you get background noise during tape PLAY, you can reduce this considerably by merely pressing the DOLBY button. If you want to cancel the DOLBY feature, press the button again.

# 5. FF/REW Button

- Fast forward tape winding starts when the FF button is pressed during PLAY or REW mode.
- PLAY starts when the FF button is pressed again during FF mode.
- Tape rewinding starts when the REW button is pressed during PLAY or FF mode.
- PLAY starts when the REW button pressed again during REW mode.

# 6. REPEAT (RPT) Button

- To repeat the track you are currently listening to, press the RPT button. To cancel, press again.
- If you do not release RPT operation when the track ends, it will automatically be replayed.

This process will be continued until you push the button again or turn the power OFF then ON.

# 7. EQ Button

Press the EQ button to select the CLAS-SIC, POPS, JAZZ, ROCK and OFF MODE for the desired tone quality. Each press of the button changes the display as follows;

CLASSIC - POPS - ROCK - JAZZ - DEFEAT

# 

- Do not insert anything like coins into the player slot as damage to the unit may occur.
- Do not place beverages close to the audio system. The playback mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.
### COMPACT DISC PLAYER/CD AUTO CHANGER OPERATION (M465) (IF EQUIPPED)



- 1. LOAD Button
- 2. CD(AUDIO/MP3)/AUX Select Button
- 3. CD EJECT Button
- 4. TRACK UP/DOWN Button
- 5. SCROLL Button
- 6. FF/REW Button
- 7. EQ (Equalizer) Button
- 8. CD SCAN Button
- 9. MARK (Bookmark) Button
- 10. RPT (Repeat) Button
- 11. RDM (Random) Button
- 12. DISC UP/DOWN Button
- 13. FILE SEARCH Knob (TUNE Select Knob)
- 14. DIR (Directory Search) Button

### 1. LOAD Button

This compact disc player will accommodate up to six compact discs.

To insert one disc into the player, do the following:

1. Press and release the LOAD Button.

- 2. Blue light on the slot will be illuminated and the lowest number of empty slot will blink on the display. After "WAIT" is displayed on the LCD, the slot will open with "INSERT" displayed on the LCD.
- 3. Insert a disc partway into the slot, label side up. The player will pull the disc in. When the disc is inserted, the disc will begin to play automatically.

### **\* NOTICE**

- Playback of MP3, AAC, and WMA file formats are supported. Load to play time for these formats may be longer due to the compressed nature of these discs.
- The disc can be only inserted while the green light is blinking on the slot.
- This CD player is suitable only for 12 cm discs, do not use irregular shaped CDs.

To insert multiple discs into the player, do the followings:

- 1. Press and hold the LOAD button for one second or more. You will then hear a beep sound and the green light on the slot will be illuminated, and the numbers of empty disc will blink on the display.
- 2. After "WAIT" is displayed on the LCD with the lowest number of empty slot blinking, the slot will open with "INSERT" displayed on the LCD.
- 3. Insert a disc partway into the slot, label side up. The player will pull the disc in. Once the disc is loaded, the numbers of the empty disc will blink on the display continuously. If the next "DISC NO." is displayed when the slot is illuminated, you can then load another disc.
- 4. Load the remaining disc by following the same procedures 1 and 2. When you finished loading 6 discs, the CD player will begin to play the last CD loaded.

5. To load more than one disc but less than six, complete Steps 1 and 2. When you have finished loading discs, press LOAD button to cancel the loading function or wait for 10 seconds.

The CD player will begin to play the last CD loaded. As each CD starts to play, the DISC number will appear on the display.

### **\* NOTICE**

The disc player takes up to six discs. Do not try to load more than six.

#### 2. CD(AUDIO/MP3)/AUX Select Button

- Press the CD Button to start CD playback, during radio operation or cassette tape playing.
- When discs are in the CD deck, if you press the CD button, the CD player will begin playing even if the radio or cassette player is being used.
- The CD player can be used when the ignition switch is in either the "ON" or "ACC" position.
- Push the CD button to start CD playback without pushing Power ON-OFF control knob. (Only when a CD is in the deck.

- If you press this button. you can change to AUX mode.
- AUX mode is available only when AUX jack is plugged in and change back to last mode if you pull it out.

### 3. CD EJECT Button

- When the EJECT button is pressed with a CD loaded, the CD will eject.
- To eject all of the discs, press this button for one second or more.

#### 4. TRACK UP/DOWN Button

- The desired track on the disc currently being played can be selected using the track number.
- Press (  $\bigwedge$  ) once to skip forward to the beginning of the next track.
- Press ( ∨ ) once to skip back to the beginning of the track.

#### 5. SCROLL Button

When the CD is playing, you can scroll through long file names by pressing the DOLBY button for approximately one second. The file name will appear on the LCD for about three seconds.

#### 6. FF/REW Button

While the disc is playing, if you hold down the FF button continuously, the selected track is advanced. Holding down the REW button continuously moves the selected track back.

### 7. EQ (Equalizer) Button

Press the EQ button to select the CLAS-SIC, POPS, JAZZ, ROCK and DEFEAT MODE for the desired tone quality. Each press of the button changes the display as follows;

CLASSIC→POPS→ROCK→JAZZ→DEFEAT

### 8. CD SCAN Button

- Press the CD SCAN button to playback the first 10 seconds of each track.
- Press the CD SCAN button again within 10 sec. when you have reached the desired track.
- To playback the first 10 seconds of each track in the selected folder, Press the CD SCAN button within a second. (MP3 CD only)

 To playback the first 10 seconds of each file in the selected DISC (MP3 CD only), when press SCAN button for one second or more.

### 9. MARK (Bookmark) Button

When the CD player unit is operating, the desired track on the disc can be book-marked by using the MARK button.

- Press the MARK button for more than one second to bookmark the desired track. "M" will be displayed on the LCD and "MEMORY NO." will display for approximately five seconds with beep sound. To play the bookmarked tracks, press the MARK button within one second and select the book-marked track to play.
- To erase a bookmarked track, press the MARK button for more than one second. This will erase the bookmark with beep sound.

If you want to delete all tracks stored on Mark Memory, press FILE SEARCH knob in the Mark Play mode for more than one second. You will hear a beep sound and all tracks will be deleted from Mark Memory with "MARK DELETE ALL" displayed on the LCD.

### **\*** NOTICE

Tracks stored on Mark Memory will be automatically erased after you eject CDs that contain those tracks.

### 10. RPT (Repeat) Button

- To repeat the track you are currently listening to, press the RPT button. To cancel, press it again. If it pressed for more than one second, it will be repeated all tracks within currently played CD.
- To repeat the music within currently played folder, press the RPT button for more than one second. Then it will be repeated in sequential order within the currently played folder. To cancel, press it again. (MP3 CD only)
- If you do not release RPT operation when the track ends, it will automatically be replayed. This process will be continued until you push the button again.

### 11. RDM (Random) Button

- For listen to the music in random order, press the RDM Button with beep sound for more than one second. To cancel, press it again.
- For listen to the music within the currently played folder in random order, press the RDM Button within one second. To cancel, press it again within one second. If it pressed for more than one second, it will be played all in random order within currently played CD (MP3 CD only).

### 12. DISC UP/DOWN Button

- By pressing "DISC ∧ "/"DISC ∨ " while CD changer is playing, you can move to the previews/next disc and playback automatically begins.
- If any of the slots does not contain a CD, your car audio will skip empty slot and plays only slot that contains a CD. When switching CD's, the LCD displays the selected CD's number.

### 13. FILE SEARCH Knob (TUNE Select Knob)

- You can move through the track by turning the FILE SEARCH knob clockwise or counterclockwise.
- After moving the desired file, press the FILE SEARCH knob to playback in the selected file.
- If you do not press the FILE SEARCH knob within five seconds, the file searching function will be released.

### 14. DIR (Directory Search) Button

- You can move through the folder by pushing the DIR button to up ( DR ) and down ( DR ).
- After moving the desired folder, press the FILE SEARCH knob to play back in the the selected folder. If you do not press the FILE SEARCH knob within 5 seconds, the folder searching function will be released. It is not operated in a single folder.

### **\* NOTICE**

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range by using the vehicle's air conditioning or heating system.
- When replacing the fuse, replace it with a fuse having the correct capacity.
- All stored bookmarks are all erased when the car battery is disconnected or power to the vehicle is lost. If this occurs, the bookmarks will have to be reset.
- Do not add any oil to the rotating parts. Keep magnets, screwdrivers and other metallic objects away from the tape mechanism and head.

# $\triangle$ CAUTION

- Do not insert warped or poor quality discs into the CD player as damage to the unit may occur.
- Do not insert anything like coins into the player slot as damage to the unit may occur.
- Do not place beverages close to the audio system. The playback mechanism may be damaged if you spill them.
- Do not strike or allow anything to impact the audio system, damage to the system mechanisms could occur.
- Off-road or rough surface driving may cause the com- pact disc to skip. Do not use the compact disc when driving in such conditions as damage to the compact disc face could occur.
- Do not attempt to grab or pull the compact disc out while the disc is being pulled into the audio unit by the self-loading mechanism. Damage to the audio unit and compact disc could occur.

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#### (Continued)

- This equipment is designed to be used only in a 12 volt DC battery system with negative ground.
- This unit is made of precision parts. Do not attempt to disassemble or adjust any parts.
- When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from the outside.
- Do not expose this equipment (including the speakers and tape) to water or excessive moisture.
- Avoid using recorded compact discs in your audio unit. Original compact discs are recommended.
- The unit is not sure of playing CD-RW (Rewritable).
- When using the EQ funtion, turn off the EQ funtion of the device on the AUX input.
- When no device is connected to the AUX cable, please pull out the cable from the JACK on the car. (AUX MODE is operational and noise may heard in the AUX MODE.)

Before driving / 5-3 Key positions / 5-4 Starting the engine / 5-5 Manual transaxle / 5-7 Automatic transaxle / 5-10 Brake system / 5-16 Cruise control system / 5-26 Economical operation / 5-30 Special driving conditions / 5-32 Winter driving / 5-35 Trailer towing / 5-39

# Driving your vehicle

Vehicle load limit / 5-47 Weight of the vehicle / 5-52

### **WARNING - ENGINE EXHAUST CAN BE DANGEROUS!**

Engine exhaust fumes can be extremely dangerous. If, at any time, you smell exhaust fumes inside the vehicle, open the windows immediately.

#### • Do not inhale exhaust fumes.

Exhaust fumes contain carbon monoxide, a colorless, odorless gas that can cause unconsciousness and death by asphyxiation.

#### • Be sure the exhaust system does not leak.

The exhaust system should be checked whenever the vehicle is raised to change the oil or for any other purpose. If you hear a change in the sound of the exhaust or if you drive over something that strikes the underneath side of the car, have the exhaust system checked as soon as possible by an authorized Hyundai dealer.

#### • Do not run the engine in an enclosed area.

Letting the engine idle in your garage, even with the garage door open, is a hazardous practice. Never run the engine in your garage any longer than it takes to start the engine and back the car out.

#### • Avoid idling the engine for prolonged periods with people inside the car.

If it is necessary to idle the engine for a prolonged period with people inside the car, be sure to do so only in an open area with the air intake set at "Fresh" and fan operating at one of the higher speeds so fresh air is drawn into the interior.

If you must drive with the trunk lid open because you are carrying objects that make this necessary:

- 1. Close all windows.
- 2. Open side vents.
- 3. Set the air intake control at "Fresh", the air flow control at "Floor" or "Face" and the fan at one of the higher speeds.

To assure proper operation of the ventilation system, be sure the ventilation air intakes located just in front of the windshield are kept clear of snow, ice, leaves or other obstructions.

### A PROPOSITION 65 WARN-ING

Engine exhaust and a wide variety of automobile components and parts, including components found in the interior furnishings in a vehicle, contain or emit chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

# **BEFORE DRIVING**

### Before entering vehicle

- Be sure that all windows, outside mirror(s), and outside lights are clean.
- Check the condition of the tires.
- Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

### Necessary inspections

Fluid levels, such as engine oil, engine coolant, brake fluid, and washer fluid should be checked on a regular basis, with the exact interval depending on the fluid. Further details are provided in Section 7, "Maintenance".

### **Before starting**

- · Close and lock all doors.
- Position the seat so that all controls are easily reached.
- Adjust the inside and outside rearview mirrors.

- Be sure that all lights work.
- · Check all gauges.
- Check the operation of warning lights when the ignition switch is turned to the ON position.
- Release the parking brake and make sure the brake warning light goes out.

For safe operation, be sure you are familiar with your vehicle and its equipment.

# **A** WARNING

All passengers must be properly belted whenever the vehicle is moving. Refer to "Seat belts" in section 3 for more information on their proper use.

# **A** WARNING

Always check the surrounding areas near your vehicle for people, especially children, before putting a car into "Drive" or "Reverse".

### Driving your vehicle

WARNING - Driving under the influence of alcohol or drugs

Drinking and driving is dangerous. Drunk driving is the number one contributor to the highway death toll each year. Even a small amount of alcohol will affect your reflexes, perceptions and judgement. Driving while under the influence of drugs is as dangerous or more dangerous than driving drunk.

You are much more likely to have a serious accident if you drink or take drugs and drive.

If you are drinking or taking drugs, don't drive. Do not ride with a driver who has been drinking or taking drugs. Choose a designated driver or call a cab.

### **KEY POSITIONS**



#### Illuminated ignition switch

Whenever a front door is opened, the ignition switch will be illuminated for your convenience, provided the ignition switch is not in the ON position. The light will go off immediately when the ignition switch is turned on or go off after about 30 seconds when the door is closed.



### Ignition switch position

#### LOCK

The steering wheel locks to protect against theft. The ignition key can be removed only in the LOCK position. When turning the ignition switch to the LOCK position, push the key inward at the ACC position and turn the key toward the LOCK position.

#### ACC (Accessory)

The steering wheel is unlocked and electrical accessories are operative.

### **\*** NOTICE

If difficulty is experienced in turning the ignition key to the ACC position, turn the steering wheel right and left to release the tension and then turn the key.

#### ΟΝ

The warning lights can be checked before the engine is started. This is the normal running position after the engine is started.

Do not leave the ignition switch ON if the engine is not running to prevent battery discharge.

#### START

Turn the ignition key to the START position to start the engine. The engine will crank until you release the key; then it returns to the ON position. The brake warning lamp can be checked in this position.

### A WARNING - Ignition key

- Never turn the ignition switch to LOCK or ACC while the vehicle is moving. This would result in loss of directional control and braking function, which could cause an accident.
- The anti-theft steering column lock is not a substitute for the parking brake. Before leaving the driver's seat, always make sure the shift lever is engaged in P (Park) for the automatic transaxle and set the parking brake fully and shut the engine off. Unexpected and sudden vehicle movement may occur if these precautions are not taken.
- Never reach for the ignition switch, or any other controls through the steering wheel while the vehicle is in motion. The presence of your hand or arm in this area could cause a loss of vehicle control, an accident and serious bodily injury or death.
- Do not place any movable objects around the driver's seat as they may move while driving, interfere with the driver and lead to an accident.

### STARTING THE ENGINE

# A WARNING

Always wear appropriate shoes when operating your vehicle. Unsuitable shoes (high heels, ski boots,etc.) may interfere with your ability to use the brake and accelerator pedal, and the clutch (if equipped).

#### Starting the gasoline engine

- 1. Make sure the parking brake is applied.
- 2. **Manual Transaxle** Depress the clutch pedal fully and shift the transaxle into Neutral. Keep the clutch pedal and brake pedal depressed while turning the ignition switch to the start position.

**Automatic Transaxle** - Place the transaxle shift lever in P (Park). Depress the brake pedal fully.

You can also start the engine when the shift lever is in the N (Neutral) position.

- 3. Turn the ignition switch to START and hold it there until the engine starts (a maximum of 10 seconds), then release the key.
- 4. In extremely cold weather (below 0°F / -18°C) or after the vehicle has not been operated for several days, let the engine warm up without depressing the accelerator.

Whether the engine is cold or warm, it should be started without depressing the accelerator.

# 

If the engine stalls while you are in motion, do not attempt to move the shift lever to the P (Park) position. If traffic and road conditions permit, you may put the shift lever in the N (Neutral) position while the vehicle is still moving and turn the ignition switch to the START position in an attempt to restart the engine.

## 

Do not engage the starter for more than 10 seconds. If the engine stalls or fails to start, wait 5 to 10 seconds before re-engaging the starter. Improper use of the starter may damage it.

### MANUAL TRANSAXLE (IF EQUIPPED)





The shift lever can be moved without pulling the ring (1). The ring (1) must be pulled up while moving the shift lever.

# Manual transaxle operation

The manual transaxle has 5 forward gears.

This shift pattern is imprinted on the shift knob. The transaxle is fully synchronized in all forward gears so shifting to either a higher or a lower gear is easily accomplished.

Press the clutch pedal down fully while shifting, then release it slowly.

The gearshift lever must be returned to the neutral position before shifting into R (Reverse). The ring located immediately below the shift knob must be pulled upward while moving the shift lever to the R position.

Make sure the vehicle is completely stopped before shifting into R (Reverse). Never operate the engine with the tachometer (rpm) in the red zone.

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- When downshifting from fifth gear to fourth gear, caution should be taken not to inadvertently press the gear shift lever sideways in such a manner that second gear is engaged. Such a drastic downshift may cause the engine speed to increase to the point that the tachometer will enter the red-zone. Such overrevving of the engine may possibly cause engine damage.
- Do not downshift more than 2 gears or downshift the gear when the engine is running at high speed (5,000 RPM or higher). Such a downshifting may damage the engine.

- To shift into reverse, rest the lever in neutral for at least 3 seconds after your car is completely stopped. Then move the lever into the reverse position.
- During cold weather, shifting may be difficult until the transaxle lubricant has warmed up. This is normal and not harmful to the transaxle.
- If you've come to a complete stop and it's hard to shift into 1st or R (Reverse), put the shift lever in N (Neutral) position and release the clutch. Press the clutch pedal back down, and then shift into 1st or R (Reverse) gear position.

### 

- To avoid premature clutch wear and damage, do not drive with your foot resting on the clutch pedal. Also, don't use the clutch to hold the vehicle stopped on an uphill grade, while waiting for a traffic light, etc.
- Do not use the shift lever as a handrest during driving, as this can result in premature wear of the transaxle shift forks.

# A WARNING

Before leaving the driver's seat, always set the parking brake fully and shut the engine off. Then make sure the transaxle is shifted into 1st gear when the vehicle is parked on a level or uphill grade, and shifted into R (Reverse) on a downhill grade. Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.

#### Using the clutch

The clutch should be pressed all the way to the floor before shifting, then released slowly. The clutch pedal should always be fully released while driving. Do not rest your foot on the clutch pedal while driving. This can cause unnecessary wear. Do not partially engage the clutch to hold the car on an incline. This causes unnecessary wear. Use the foot brake or parking brake to hold the car on an incline. Do not operate the clutch pedal rapidly and repeatedly.

#### Downshifting

When you must slow down in heavy traffic or while driving up steep hills, downshift before the engine starts to labor. Downshifting reduces the chance of stalling and gives better acceleration when you again need to increase your speed. When the vehicle is traveling down steep hills, downshifting helps maintain safe speed and prolongs brake life.

#### Good driving practices

- Never take the car out of gear and coast down a hill. This is extremely hazardous. Always leave the car in gear.
- Don't "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, slow down and shift to a lower gear. When you do this, engine braking will help slow the car.
- Slow down before shifting to a lower gear. This will help avoid over-revving the engine, which can cause damage.
- Slow down when you encounter cross winds. This gives you much better control of your car.
- Be sure the car is completely stopped before you attempt to shift into reverse. The transaxle can be damaged if you do not. To shift into reverse, depress the clutch, move the shift lever to neutral, wait three seconds, then shift to the reverse position.
- Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and the vehicle to go out of control.

# A WARNING

- Always buckle-up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver oversteers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- Never exceed posted speed limits.

### AUTOMATIC TRANSAXLE



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#### Automatic transaxle operation

The highly efficient automatic transaxle has 4 forward speeds and one reverse speed. The individual speeds are selected automatically, depending on the position of the shift lever.

All normal forward driving is done with the shift lever in the D (Drive) position.

To move the shift lever from the P (Park) position, the brake pedal must be depressed with the ignition switch ON.

### **\*** NOTICE

The first few shifts on a new vehicle, if the battery has been disconnected, may be somewhat abrupt. This is a normal condition, and the shifting sequence will adjust after shifts are cycled a few times by the TCM (Transaxle Control Module). For smooth operation, depress the brake pedal when shifting from N (Neutral) to a forward or reverse gear.

#### WARNING - Automatic transaxle

- Always check the surrounding areas near your vehicle for people, especially children, before putting a car into D (Drive) or R (Reverse).
- Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position; then set the parking brake fully and shut the engine off. Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.

## 

- To avoid damage to your transaxle, do not accelerate the engine in R (Reverse) or any forward gear position with the brakes on.
- When stopped on an upgrade, do not hold the vehicle stationary with engine power. Use the service brake or the parking brake.
- Do not shift from N (Neutral) or P (Park) into D (Drive), or R (Reverse) when the engine is above idle speed.

#### Transaxle ranges

The indicator lights in the instrument cluster indicate the shift lever position when the ignition switch is in the ON position.

#### P (Park)

Always come to a complete stop before shifting into P (Park). This position locks the transaxle and prevents the front wheels from rotating.

# **A** WARNING

- Shifting into P (Park) while the vehicle is in motion will cause the drive wheels to lock which will cause you to lose control of the vehicle.
- Do not use the P (Park) position in place of the parking brake. Always make sure the shift lever is latched in the P (Park) position and set the parking brake fully. (Continued)

#### (Continued)

- Before leaving the driver's seat, always make sure the shift lever is in the P (Park) position. Set the parking brake fully, shut the engine off and take the key with you. Unexpected and sudden vehicle movement can occur if you do not follow these precautions in the order specified.
- Never leave a child unattended in a vehicle.

### 

The transaxle may be damaged if you shift into P (Park) while the vehicle is in motion.

#### R (Reverse)

Use this position to drive the vehicle backward.

## 

Always come to a complete stop before shifting into or out of R (Reverse); you may damage the transaxle if you shift into R while the vehicle is in motion, except as explained in "Rocking the Vehicle", in this manual.

#### N (Neutral)

The wheels and transaxle are not locked. The vehicle will roll freely even on the slightest incline unless the parking brake or service brakes are applied.

#### D (Drive)

This is the normal forward driving position. The transaxle will automatically shift through a 4-gear sequence, providing the best fuel economy and power.

For extra power when passing another vehicle or climbing grades, depress the accelerator fully, at which time the transaxle will automatically downshift to the next lower gear.

#### 3 (Third gear)

Use for towing a trailer during hill climbing or to use engine braking downhill. "3" automatically shifts between 1st, 2nd and 3rd gears. This means that no shiftup to 4th gear is performed. However, the shift-up to 4th gear is done when the car speed exceeds a certain value to prevent the engine from over-revving. Manually move the selector to "D" when returning to normal driving condition.

#### 2 (Second gear)

Use for driving on a slippery road, hill climbing or engine braking downhill. "2" automatically shifts between first and second gears.

This means that no shift-up to 3rd gear is performed. However, the shift-up to third gear is done when the car speed exceeds a certain value to prevent the engine from over-revving. Manually move the selector to "D" returning to normal driving condition.

#### L (Low gear)

Use for driving up a very steep grade or for engine braking when descending steep hills. When downshifting to "L", the transaxle will temporarily remain in second gear until the vehicle has slowed enough for low gear to engage. Do not exceed 30 mph (50 km/h) in low gear.

"L" shifts to 1st gear only. However, shift up to 2nd is performed when the car exceeds a certain speed and, as speed increases, the transaxle will shift up to 3rd gear to prevent over-revving the engine.

### **\* NOTICE**

- For smooth and safe operation, depress the brake pedal when shifting from "N" (Neutral) position or "P" (Park) position to a forward or "R" (Reverse) gear.
- Fully depress the brake pedal in order to move the shift lever from the "P" (Park) position to any of the other positions.
- It is always possible to shift from "R", "N", "D", "3", "2", "L" position to "P" position. The vehicle must be fully stopped to avoid transaxle damage.

# 

- Shift into "R" and "P" position only when the vehicle has completely stopped.
- Do not accelerate the engine in reverse or any of the forward positions with the brakes applied.
- Always apply the footbrake when shifting from "P" or "N", to "R", "D","3", "2" or "L" position.
- Check the automatic transaxle fluid level regularly, and add fluid as necessary.

See the maintenance schedule for the proper fluid recommendation.

#### Shift lock system

For your safety, the automatic transaxle has a shift lock system which prevents shifting the transaxle out of P (Park) unless the brake pedal is depressed.

To shift the transaxle out of P (Park):

- 1. Depress and hold the brake pedal.
- 2. Start the engine or turn the ignition switch to the ON position.
- 3. Move the shift lever.

If the brake pedal is repeatedly depressed and released with the shift lever in the P (Park) position, a chattering noise near the shift lever may be heard. This is a normal condition.

# **A** WARNING

Always fully depress the brake pedal before and while shifting out of the P (Park) position into another position to avoid inadvertent motion of the vehicle which could injure persons in or around the car.



#### Shift-lock override

If the shift lever cannot be moved from the P (Park) position with the brake pedal depressed, continue depressing the brake, then do the following:

- 1. Carefully remove the cap (1) covering the shift-lock override access hole.
- Insert a screwdriver (or key) into the access hole and press down on the screwdriver (or key).
- 3. Move the shift lever.
- 4. Have your vehicle inspected by an authorized Hyundai dealer immediately.

#### Ignition key interlock system

The ignition key cannot be removed unless the shift lever is in the P (Park) position. If the ignition switch is in any other position, the key cannot be removed.

### Good driving practices

- Never move the gear selector lever from P (Park) or N (Neutral) to any other position with the accelerator pedal depressed.
- Never move the gear selector lever into "P" when the vehicle is in motion.
- Be sure the car is completely stopped before you attempt to shift into R (Reverse).
- Never take the car out of gear and coast down a hill. This may be extremely hazardous. Always leave the car in gear when moving.
- Do not "ride" the brakes. This can cause them to overheat and malfunction. Instead, when you are driving down a long hill, slow down and shift to a lower gear. When you do this, engine braking will help slow the car.
- Slow down before shifting to a lower gear. Otherwise, the lower gear may not be engaged.
- Always use the parking brake. Do not depend on placing the transaxle in P (Park) to keep the car from moving.
- Exercise extreme caution when driving on a slippery surface. Be especially careful when braking, accelerating or shifting gears. On a slippery surface, an abrupt change in vehicle speed can cause the drive wheels to lose traction and the vehicle to go out of control.

• Optimum vehicle performance and economy is obtained by smoothly depressing and releasing the accelerator pedal.

### A WARNING

- Always buckle-up! In a collision, an unbelted occupant is significantly more likely to be seriously injured or killed than a properly belted occupant.
- Avoid high speeds when cornering or turning.
- Do not make quick steering wheel movements, such as sharp lane changes or fast, sharp turns.
- The risk of rollover is greatly increased if you lose control of your vehicle at highway speeds.
- Loss of control often occurs if two or more wheels drop off the roadway and the driver oversteers to reenter the roadway.
- In the event your vehicle leaves the roadway, do not steer sharply. Instead, slow down before pulling back into the travel lanes.
- Never exceed posted speed limits.

# 

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward of backward as it becomes unstuck, causing injury or damage to nearby people or objects.

Moving up a steep grade from a standing start

To move up a steep grade from a standing start, depress the brake pedal, shift the shift lever to D (Drive). Select the appropriate gear depending on load weight and steepness of the grade, and release the parking brake. Depress the accelerator gradually while releasing the service brakes.

### **BRAKE SYSTEM**

#### **Power brakes**

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

In the event that the power-assisted brakes lose power because of a stalled engine or some other reason, you can still stop your vehicle by applying greater force to the brake pedal than you normally would. The stopping distance, however, will be longer.

When the engine is not running, the reserve brake power is partially depleted each time the brake pedal is applied. Do not pump the brake pedal when the power assist has been interrupted.

Pump the brake pedal only when necessary to maintain steering control on slippery surfaces.

#### In the event of brake failure

If service brakes fail to operate while the vehicle is in motion, you can make an emergency stop with the parking brake. The stopping distance, however, will be much greater than normal.

#### Applying the parking brake Applying the parking brake while the vehicle is moving at normal speeds can cause a sudden loss of control of the vehicle. If you must use the parking brake to stop the vehicle, use great caution in apply-

### **A WARNING - Brakes**

ing the brake.

 Do not drive with your foot resting on the brake pedal. This will create abnormal high brake temperatures, excessive brake lining and pad wear, and increased stopping distances.

(Continued)

#### (Continued)

- When descending a long or steep hill, shift to a lower gear and avoid continuous application of the brakes. Continuous brake application will cause the brakes to overheat and could result in a temporary loss of braking performance.
- Wet brakes may result the vehicle not to slow down at the usual rate and pull it to one side when the brakes are applied. Applying the brakes lightly will indicate whether they have been affected in this way. Always test your brakes in this fashion after driving through deep water. To dry the brakes, apply them lightly while maintaining a safe forward speed until brake performance returns to normal.

#### *Disc brakes wear indicator* Your vehicle has disc brakes.

When your brake pads are worn and new pads are required, you will hear a highpitched warning sound from your front brakes or rear brakes (if equipped). You may hear this sound come and go or it may occur whenever you depress the brake pedal.

Please remember that some driving conditions or climates may cause a brake squeal when you first apply (or lightly apply) the brakes. This is normal and does not indicate a problem with your brakes.

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To avoid costly brake repairs, do not continue to drive with worn brake pads.

### 

Always replace brake pads as complete front or rear axle sets.

### **WARNING** - Brake wear

This brake wear warning sound means your vehicle needs service. If you ignore this audible warning, you will eventually lose braking performance, which could lead to a serious accident.

#### Rear drum brakes

Your rear drum brakes do not have wear indicators.Therefore, have the rear brake linings inspected if you hear a rear brake rubbing noise. Also have your rear brakes inspected each time you change or rotate your tires and when you have the front brakes replaced.



### Parking brake

#### Applying the parking brake

To engage the parking brake, first apply the foot brake and then without pressing the release button in, pull the parking brake lever up as far as possible. In addition it is recommended that when parking the vehicle on a gradient, the shift lever should be positioned in the appropriate low gear on manual transaxle vehicles or in the P (Park) position on automatic transaxle vehicles.

## 

Driving with the parking brake applied will cause excessive brake pad (or lining) and brake rotor wear.



#### Releasing the parking brake

To release the parking brake, first apply the foot brake and pull the parking brake lever slightly. Secondly, depress the release button and lower the parking brake lever while holding the button.

# A WARNING

- To prevent unintentional movement when stopped and leaving the vehicle, do not use the gearshift lever in place of the parking brake. Set the parking brake AND make sure the gearshift lever is securely positioned in 1st (First) gear or R (Reverse) for manual transaxle equipped vehicles and in P (Park) for automatic transaxle equipped vehicles.
- Never allow a person who is unfamiliar with the vehicle or children to touch the parking brake. If the parking brake is released unintentionally, serious injury may occur.
- All vehicles should always have the parking brake fully engaged when parking to avoid inadvertent movement of the car which can injure occupants or pedestrians.



W-75

Check the brake warning light by turning the ignition switch ON (do not start the engine). This light will be illuminated when the parking brake is applied with the ignition switch in the START or ON position.

Before driving, be sure the parking brake is fully released and the brake warning light is off.

If the brake warning light remains on after the parking brake is released, there may be a malfunction in the brake system. Immediate attention is necessary.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution while operating the vehicle and only continue to drive the vehicle until you can reach a safe location or repair shop. Anti-lock brake system (ABS) (if equipped)

### A WARNING

ABS (ESC) will not prevent accidents due to improper or dangerous driving maneuvers. Even though vehicle control is improved during emergency braking, always maintain a safe distance between you and objects ahead. Vehicle speeds should always be reduced during extreme road conditions.

The braking distance for cars equipped with an anti-lock braking system (Electronic Stability Control System) may be longer than for those without it in the following road conditions.

During these conditions the vehicle should be driven at reduced speeds:

- Rough, gravel or snow-covered roads.
- With tire chains installed.
- On roads where the road surface is pitted or has different surface height.

(Continued)

#### (Continued)

The safety features of an ABS (ESC) equipped vehicle should not be tested by high speed driving or cornering. This could endanger the safety of yourself or others.

The ABS continuously senses the speed of the wheels. If the wheels are going to lock, the ABS system repeatedly modulates the hydraulic brake pressure to the wheels.

When you apply your brakes under conditions which may lock the wheels, you may hear a "tik-tik" sound from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ABS is active.

In order to obtain the maximum benefit from your ABS in an emergency situation, do not attempt to modulate your brake pressure and do not try to pump your brakes. Press your brake pedal as hard as possible or as hard as the situation warrants and allow the ABS to control the force being delivered to the brakes.

### \* NOTICE

A click sound may be heard in the engine compartment when the vehicle begins to move after the engine is started. These conditions are normal and indicate that the anti-lock brake system is functioning properly.

- Even with the anti-lock brake system, your vehicle still requires sufficient stopping distance. Always maintain a safe distance from the vehicle in front of you.
- Always slow down when cornering. The anti-lock brake system cannot prevent accidents resulting from excessive speeds.
- On loose or uneven road surfaces, operation of the anti-lock brake system may result in a longer stopping distance than for vehicles equipped with a conventional brake system.



W-78

## 

- If the ABS warning light is on and stays on, you may have a problem with the ABS. In this case, however, your regular brakes will work normally.
- The ABS warning light will stay on for approximately 3 seconds after the ignition switch is ON. During that time, the ABS will go through self-diagnosis and the light will go off if everything is normal. If the light stays on, you may have a problem with your ABS. Contact an authorized Hyundai dealer as soon as possible.

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- When you drive on a road having poor traction, such as an icy road, and operate your brakes continuously, the ABS will be active continuously and the ABS warning light may illuminate. Pull your car over to a safe place and stop the engine.
- Restart the engine. If the ABS warning light is off, then your ABS system is normal. Otherwise, you may have a problem with the ABS. Contact an authorized Hyundai dealer as soon as possible.

### **\* NOTICE**

When you jump start your vehicle because of a drained battery, the engine may not run as smoothly and the ABS warning light may turn on at the same time. This happens because of the low battery voltage. It does not mean your ABS is malfunctioning.

- Do not pump your brakes!
- Have the battery recharged before driving the vehicle.



# Electronic stability control (ESC) (If equipped)

The Electronic Stability Control (ESC) system is designed to stabilize the vehicle during cornering manuevers. ESC checks where you are steering and where the vehicle is actually going. ESC applies the brakes at individual wheels and intervenes in the engine management system to stabilize the vehicle.

# A WARNING

Never drive too fast for the road conditions or too quickly when cornering. Electronic Stability Control (ESC) will not prevent accidents. Excessive speed in turns, abrupt maneuvers and hydroplaning on wet surfaces can still result in serious accidents. Only a safe and attentive driver can prevent accidents by avoiding maneuvers that cause the vehicle to lose traction. Even with ESC installed, always follow all the normal precautions for driving - including driving at safe speeds for the conditions. The Electronic Stability Control (ESC) system is an electronic system designed to help the driver maintain vehicle control under adverse conditions. It is not a substitute for safe driving practices. Factors including speed, road conditions and driver steering input can all affect whether ESC will be effective in preventing a loss of control. It is still your responsibility to drive and corner at reasonable speeds and to leave a sufficient margin of safety.

When you apply your brakes under conditions which may lock the wheels, you may hear a "tik-tik" sound from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ESC is active.

### **\* NOTICE**

A click sound may be heard in the engine compartment when the vehicle begins to move after the engine is started. These conditions are normal and indicate that the Electronic Stability Control System is functioning properly.

#### ESC operation ESC ON condition



- When the ignition is turned ON, ESC and ESC OFF indicator lights illuminate for approximately 3 seconds, then ESC is turned on.
- Press the ESC OFF button for at least half a second after turning the ignition ON to turn ESC off. (ESC OFF indicator will illuminate). To turn the ESC on, press the ESC OFF button (ESC OFF indicator light will go off).
- When starting the engine, you may hear a slight ticking sound. This is the ESC performing an automatic system self-check and does not indicate a problem.

#### When operating



When the ESC is in operation, ESC indicator light blinks.

- When the Electronic Stability Control is operating properly, you can feel a slight pulsation in the vehicle. This is only the effect of brake control and indicates nothing unusual.
- When moving out of the mud or slippery road, pressing the accelerator pedal may not cause the engine rpm (revolutions per minute) to increase.

#### ESC operation off ESC OFF state

ESC OFF  To cancel ESC operation, press the ESC OFF button (ESC OFF indicator light illuminates).

• If the ignition switch is turned to LOCK position when ESC is off, ESC remains off. Upon restarting the engine, the ESC will automatically turn on again. ■ ESC indicator light (blinks)

**ESC** 

■ ESC OFF indicator light (comes on)

ESC OFF

#### Indicator light

When ignition switch is turned to ON, the indicator light illuminates, then goes off if ESC system is operating normally.

The ESC indicator light blinks whenever ESC is operating.

ESC OFF indicator light comes on when either the ESC is turned off with the button, or ESC fails to operate when turned on.

### 

Driving with varying tire or wheel sizes may cause the ESC system to malfunction. When replacing tires, make sure they are the same size as your original tires.

# A WARNING

The Electronic Stability Control system is only a driving aid; use precautions for safe driving by slowing down on curved, snowy, or icy roads. Drive slowly and don't attempt to accelerate whenever the ESC indicator light is blinking, or when the road surface is slippery.

#### ESC OFF usage

#### When driving

- It's a good idea to keep the ESC turned on for daily driving whenever possible.
- To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

Never press ESC OFF button while ESC is operating (ESC indicator light blinks). If ESC is turned off while ESC is operating, the vehicle may slip out of control.

### **\* NOTICE**

- When operating the vehicle on a dynamometer, ensure that the ESC is turned off (ESC OFF light illuminated). If the ESC is left on, it may prevent the vehicle speed from increasing, and result in false diagnosis.
- Turning the ESC off does not affect ABS or brake system operation.

# **WARNING**

Never press the ESC OFF button while ESC is operating.

If the ESC is turned off while ESC is operating, the vehicle may go out of control.

To turn ESC off while driving, press the ESC OFF button while driving on a flat road surface.

### Good braking practices

- After being parked, check to be sure the parking brake is not engaged and that the parking brake indicator light is out before driving away.
- Driving through water may get the brakes wet. They can also get wet when the car is washed. Wet brakes can be dangerous! Your car will not stop as quickly if the brakes are wet. Wet brakes may cause the car to pull to one side.

To dry the brakes, apply the brakes lightly until the braking action returns to normal, taking care to keep the car under control at all times. If the braking action does not return to normal, stop as soon as it is safe to do so and call an authorized Hyundai dealer for assistance.

• Don't coast down hills with the car out of gear. This is extremely hazardous. Keep the car in gear at all times, use the brakes to slow down, then shift to a lower gear so that engine braking will help you maintain a safe speed.

- Don't "ride" the brake pedal. Resting your foot on the brake pedal while driving can be dangerous because it can result in the brakes overheating and losing their effectiveness. It also increases the wear of the brake components.
- If a tire goes flat while you are driving, apply the brakes gently and keep the car pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe place.
- If your car is equipped with an automatic transaxle, don't let your car creep forward. To avoid creeping forward, keep your foot firmly on the brake pedal when the car is stopped.
- Use caution when parking on a hill. Firmly engage the parking brake and place the gear selector lever in "P" (automatic transaxle) or in first or reverse gear (manual transaxle). If your car is facing downhill, turn the front wheels into the curb to help keep the car from rolling. If your car is facing uphill, turn the front wheels away from the curb to help keep the car from rolling. If there is no curb or if it is required by other conditions to keep the car from rolling, block the wheels.

- Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. If there is a risk that the parking brake may freeze, apply it only temporarily while you put the gear selector lever in P (automatic transaxle) or in first or reverse gear (manual transaxle) and block the rear wheels so the car cannot roll. Then release the parking brake.
- Do not hold the vehicle on the upgrade with the accelerator pedal. This can cause the transaxle to overheat. Always use the brake pedal or parking brake.

### **CRUISE CONTROL SYSTEM (IF EQUIPPED)**

The cruise control system allows you to program the vehicle to maintain a constant speed without resting your foot on the accelerator pedal.

This system is designed to function above approximately 24 mph (40 km/h).

# **A** WARNING

- If the cruise control is left on, (CRUISE indicator light in the instrument cluster illuminated) the cruise control can be switched on accidentally. Keep the cruise control system off (CRUISE indicator light OFF) when the cruise control is not in use, to avoid inadvertently setting a speed.
- Use the cruise control system only when traveling on open highways in good weather.
- Do not use the cruise control when it may not be safe to keep the car at a constant speed, for instance, driving in heavy or varying traffic, or on slippery (rainy, icy or snow-covered) or winding roads or over 6% up-hill or down-hill roads.

(Continued)

#### (Continued)

- Pay particular attention to the driving conditions whenever using the cruise control system.
- During cruise-speed driving of a manual transaxle vehicle, do not shift into neutral without depressing the clutch pedal, since the engine will be over-revved. If this happens, depress the clutch pedal or release the cruise control ON/OFF switch.

### **\*** NOTICE

During normal cruise control operation, when the SET switch is activated or reactivated after applying the brakes, the cruise control will energize after approximately 3 seconds. This delay is normal.



### To set cruise control speed:

- 1. Push the CRUISE ON-OFF button on the steering wheel to turn the system on. The CRUISE indicator light in the instrument cluster will illuminate.
- 2. Accelerate to the desired speed, which must be more than 24 mph (40 km/h).



3. Push the COAST/SET switch, and release it at the desired speed. The SET indicator light in the instrument cluster will illuminate. Release the accelerator at the same time. The desired speed will automatically be maintained.

On a steep grade, the vehicle may momentarily slow down while going downhill.



# To increase cruise control set speed:

Follow either of these procedures:

- Push the RES/ACCEL switch and hold it. Your vehicle will accelerate. Release the switch at the speed you want.
- Push the RES/ACCEL switch and release it immediately. The cruising speed will increase by 1 mph (1.6 km/h) each time the RES/ACCEL switch is operated in this manner.



### To decrease the cruising speed:

Follow either of these procedures:

- Push the COAST/SET switch and hold it. Your vehicle will gradually slow down. Release the switch at the speed you want to maintain.
- Push the COAST/SET switch and release it immediately. The cruising speed will decrease by 1 mph (1.6 km/h) each time the COAST/SET switch is operated in this manner.

# To temporarily accelerate with the cruise control on:

If you want to speed up temporarily when the cruise control is on, depress the accelerator pedal. Increased speed will not interfere with cruise control operation or change the set speed.

To return to the set speed, take your foot off the accelerator.



# To cancel cruise control, do one of the following:

- Press the brake pedal.
- Press the clutch pedal with an manual transaxle.
- Shift into N (Neutral) with an automatic transaxle.
- Press the CANCEL switch located on the steering wheel.
- Decrease the vehicle speed lower than the memory speed by 9 mph (15 km/h).
- Decrease the vehicle speed to less than 24 mph (40 km/h).

Each of these actions will cancel cruise control operation (the SET indicator light in the instrument cluster will go off), but it will not turn the system off. If you wish to resume cruise control operation, push the RES/ACCEL switch located on your steering wheel. You will return to your previously preset speed.



# To resume cruising speed at more than 24 mph (40 km/h):

If any method other than the CRUISE ON-OFF switch was used to cancel cruising speed and the system is still activated, the most recent set speed will automatically resume when the RES/ACCEL switch is pushed.

It will not resume, however, if the vehicle speed has dropped below 24 mph (40 km/h).

# To turn cruise control off, do one of the following:

- Push the CRUISE ON-OFF button (the CRUISE indicator light in the instrument cluster will go off).
- Turn the ignition off.

Both of these actions cancel cruise control operation. If you want to resume cruise control operation, repeat the steps provided in "To set cruise control speed" on the previous page.

### **ECONOMICAL OPERATION**

Your vehicle's fuel economy depends mainly on your style of driving, where you drive and when you drive.

Each of these factors affects how many miles (kilometers) you can get from a gallon (liter) of fuel. To operate your vehicle as economically as possible, use the following driving suggestions to help save money in both fuel and repairs:

- Drive smoothly. Accelerate at a moderate rate. Don't make "jack-rabbit" starts or full-throttle shifts and maintain a steady cruising speed. Don't race between stoplights. Try to adjust your speed to that of the other traffic so you don't have to change speeds unnecessarily. Avoid heavy traffic whenever possible. Always maintain a safe distance from other vehicles so you can avoid unnecessary braking. This also reduces brake wear.
- Drive at a moderate speed. The faster you drive, the more fuel your car uses. Driving at a moderate speed, especially on the highway, is one of the most effective ways to reduce fuel consumption.

- Don't "ride" the brake or clutch pedal. This can increase fuel consumption and also increase wear on these components. In addition, driving with your foot resting on the brake pedal may cause the brakes to overheat, which reduces their effectiveness and may lead to more serious consequences.
- Take care of your tires. Keep them inflated to the recommended pressure. Incorrect inflation, either too much or too little, results in unnecessary tire wear. Check the tire pressures at least once a month.
- Be sure that the wheels are aligned correctly. Improper alignment can result from hitting curbs or driving too fast over irregular surfaces. Poor alignment causes faster tire wear and may also result in other problems as well as greater fuel consumption.
- Keep your car in good condition. For better fuel economy and reduced maintenance costs, maintain your car in accordance with the maintenance schedule in Section 7. If you drive your car in severe conditions, more frequent maintenance is required (see Section 7 for details).

- Keep your car clean. For maximum service, your vehicle should be kept clean and free of corrosive materials. It is especially important that mud, dirt, ice, etc. not be allowed to accumulate on the underside of the car. This extra weight can result in increased fuel consumption and also contribute to corrosion.
- Travel lightly. Don't carry unnecessary weight in your car. Weight reduces fuel economy.
- Don't let the engine idle longer than necessary. If you are waiting (and not in traffic), turn off your engine and restart only when you're ready to go.
- Remember, your vehicle does not require extended warm-up. After the engine has started, allow the engine to run for 10 to 20 seconds prior to placing the vehicle in gear. In very cold weather, however, give your engine a slightly longer warm-up period.
- Don't "lug" or "over-rev" the engine. Lugging is driving too slowly in too high a gear resulting in the engine bucking. If this happens, shift to a lower gear. Over-revving is racing the engine beyond its safe limit. This can be avoided by shifting at the recommended speeds.

- Use your air conditioning sparingly. The air conditioning system is operated by engine power so your fuel economy is reduced when you use it.
- Open windows at high speeds can reduce fuel economy.
- Fuel economy is less in crosswinds and headwinds. To help offset some of this loss, slow down when driving in these conditions.

Keeping a vehicle in good operating condition is important both for economy and safety. Therefore, have an authorized Hyundai dealer perform scheduled inspections and maintenance.

### WARNING - Engine off during motion

Never turn the engine off to coast down hills or anytime the vehicle is in motion. The power steering and power brakes will not function properly without the engine running. Instead, keep the engine on and downshift to an appropriate gear for engine braking effect. In addition, turning off the ignition while driving could engage the steering wheel lock resulting in loss of vehicle steering which could cause serious injury or death.
### SPECIAL DRIVING CONDITIONS

#### Hazardous driving conditions

When hazardous driving conditions are encountered such as water, snow, ice, mud, sand, or similar hazards, follow these suggestions:

- Drive cautiously and allow extra distance for braking.
- Avoid sudden movements in braking or steering.
- When braking with non-ABS brakes pump the brake pedal with a light upand-down motion until the vehicle is stopped.

A WARNING - ABS

Do not pump the brake pedal on a vehicle equipped with ABS.

- If stalled in snow, mud, or sand, use second gear. Accelerate slowly to avoid spinning the drive wheels.
- Use sand, rock salt, tire chains, or other non-slip material under the drive wheels to provide traction when stalled in ice, snow, or mud.

### **A** WARNING - Downshifting

Downshifting with an automatic transaxle, while driving on slippery surfaces can cause an accident. The sudden change in tire speed could cause the tires to skid. Be careful when downshifting on slippery surfaces.

#### **Rocking the vehicle**

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between R (Reverse) and any forward gear in vehicles equipped with an automatic transaxle. Do not race the engine, and spin the wheels as little as possible. If you are still stuck after a few tries, have the vehicle pulled out by a tow vehicle to avoid engine overheating and possible damage to the transaxle.

## 

Prolonged rocking may cause engine over-heating, transaxle damage or failure, and tire damage.

#### A WARNING - Spinning tires Do not spin the wheels, especially at speeds more than 35 mph (56 km/h). Spinning the wheels at high speeds when the vehicle is stationary could cause a tire to overheat, explode and injure bystanders.

## 

The ESC system (if equipped) should be turned OFF prior to rocking the vehicle.

#### Smooth cornering

Avoid braking or gear changing in corners, especially when roads are wet. Ideally, corners should always be taken under gentle acceleration. If you follow these suggestions, tire wear will be held to a minimum.

#### **Driving at night**

Because night driving presents more hazards than driving in the daylight, here are some important tips to remember:

- Slow down and keep more distance between you and other vehicles, as it may be more difficult to see at night, especially in areas where there may not be any street lights.
- Adjust your mirrors to reduce the glare from other driver's headlights.
- Keep your headlights clean and properly aimed on vehicles not equipped with the automatic headlight aiming feature. Dirty or improperly aimed headlights will make it much more difficult to see at night.
- Avoid staring directly at the headlights of oncoming vehicles. You could be temporarily blinded, and it will take several seconds for your eyes to readjust to the darkness.

#### Driving in the rain

Rain and wet roads can make driving dangerous, especially if you're not prepared for the slick pavement. Here are a few things to consider when driving in the rain:

- A heavy rainfall will make it harder to see and will increase the distance needed to stop your vehicle, so slow down.
- Keep your windshield wiping equipment in good shape. Replace your windshield wiper blades when they show signs of streaking or missing areas on the windshield.
- If your tires are not in good condition, making a quick stop on wet pavement can cause a skid and possibly lead to an accident. Be sure your tires are in good shape.
- Turn on your headlights to make it easier for others to see you.
- Driving too fast through large puddles can affect your brakes. If you must go through puddles, try to drive through them slowly.
- If you believe you may have gotten your brakes wet, apply them lightly while driving until normal braking operation returns.

#### Driving in flooded areas

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel hub. Drive through any water slowly. Allow adequate stopping distance because brake performance may be affected. After driving through water, dry the brakes by gently applying them several times while the vehicle is moving slowly.

#### Higher speed motoring

Tires:

Adjust the tire inflation pressures to specification. Low tire inflation pressures will result in overheating and possible failure of the tires.

Avoid using worn or damaged tires which may result in reduced traction or tire failure.

## **\* NOTICE**

Never exceed the maximum tire inflation pressure shown on the tires.

## A WARNING

- Underinflated or overinflated tires can cause poor handling, loss of vehicle control, and sudden tire failure leading to accidents, injuries, and even death. Always check the tires for proper inflation before driving. For proper tire pressures, refer to section 9, "Tires and wheels".
- Driving on tires with no or insufficient tread is dangerous. Wornout tires can result in loss of vehicle control, collisions, injury, and even death. Worn-out tires should be replaced as soon as possible and should never be used for driving. Always check the tire tread before driving your car. For further information and tread limits, refer to section 7, "Tires and wheels".

*Fuel, engine coolant and engine oil:* High speed travel consumes more fuel than urban motoring. Do not forget to check both engine coolant and engine oil.

#### Drive belt:

A loose or damaged drive belt may result in overheating of the engine.

#### WINTER DRIVING

The more severe weather conditions of winter result in greater wear and other problems. To minimize the problems of winter driving, you should follow these suggestions:

#### Snowy or Icy conditions

To drive your vehicle in deep snow, it may be necessary to use snow tires or to install tire chains on your tires. If snow tires are needed, it is necessary to select tires equivalent in size and type of the original equipment tires. Failure to do so may adversely affect the safety and handling of your car. Furthermore, speeding, rapid acceleration, sudden brake applications, and sharp turns are potentially very hazardous practices.

During deceleration, use engine braking to the fullest extent. Sudden brake applications on snowy or icy roads may cause skids to occur. You need to keep sufficient distance between the vehicle in operation in front and your vehicle. Also, apply the brake gently. It should be noted that installing tire chains on the tire will provide a greater driving force, but will not prevent side skids.

#### **\* NOTICE**

Tire chains are not legal in all states. Check state laws before fitting tire chains.

#### Snow tires

If you mount snow tires on your vehicle, make sure they are radial tires of the same size and load range as the original tires. Mount snow tires on all four wheels to balance your vehicle's handling in all weather conditions. Keep in mind that the traction provided by snow tires on dry roads may not be as high as your vehicle's original equipment tires. You should drive cautiously even when the roads are clear. Check with the tire dealer for maximum speed recommendations.

#### A WARNING - Snow tire size Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

Do not install studded tires without first checking local, state and municipal regulations for possible restrictions against their use.



#### Tire chains

Since the sidewalls of radial tires are thinner, they can be damaged by mounting some types of snow chains on them. Therefore, the use of snow tires is recommended instead of snow chains. Do not mount tire chains on vehicles equipped with aluminum wheels; snow chains may cause damage to the wheels. If snow chains must be used, use wiretype chains with a thickness of less than 0.59 in (15 mm). Damage to your vehicle caused by improper snow chain use is not covered by your vehicle manufacturers warranty.

Install tire chains only on the front tires.

## 

- Make sure the snow chains are the correct size and type for your tires. Incorrect snow chains can cause damage to the vehicle body and suspension and may not be covered by your vehicle manufacturer warranty. Also, the snow chain connecting hooks may be damaged from contacting vehicle components causing the snow chains to come loose from the tire. Make sure the snow chains are SAE class "S" certified.
- Always check chain installation for proper mounting after driving approximately 0.3 to 0.6 miles (0.5 to 1 km) to ensure safe mounting. Retighten or remount the chains if they are loose.

#### **Chain installation**

When installing chains, follow the manufacturer's instructions and mount them as tightly as you can. Drive slowly with chains installed. If you hear the chains contacting the body or chassis, stop and tighten them. If they still make contact, slow down until it stops. Remove the chains as soon as you begin driving on cleared roads.

## 

- Mounting chains

When mounting snow chains, park the vehicle on level ground away from traffic. Turn on the vehicle Hazard Warning flashers and place a triangular emergency warning device behind the vehicle if available. Always place the vehicle in park (P), apply the parking brake and turn off the engine before installing snow chains.

## **WARNING** - Tire chains

- The use of chains may adversely affect vehicle handling.
- Do not exceed 20 mph (30 km/h) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns, and other road hazards, which may cause the vehicle to bounce.
- Avoid sharp turns or lockedwheel braking.
- Chains that are the wrong size or improperly installed can damage your vehicle's brake lines, suspension, body and wheels.
- Stop driving and retighten the chains any time you hear them hitting the vehicle.

# Use high quality ethylene glycol coolant

Your vehicle is delivered with high quality ethylene glycol coolant in the cooling system. It is the only type of coolant that should be used because it helps prevent corrosion in the cooling system, lubricates the water pump and prevents freezing. Be sure to replace or replenish your coolant in accordance with the maintenance schedule in Section 7. Before winter, have your coolant tested to assure that its freezing point is sufficient for the temperatures anticipated during the winter.

#### Check battery and cables

Winter puts additional burdens on the battery system. Visually inspect the battery and cables as described in Section 7. The level of charge in your battery can be checked by an authorized Hyundai dealer or a service station.

# Change to "winter weight" oil if necessary

In some climates it is recommended that a lower viscosity "winter weight" oil be used during cold weather. See Section 9 for recommendations. If you aren't sure what weight oil you should use, consult an authorized Hyundai dealer.

# Check spark plugs and ignition system

Inspect your spark plugs as described in Section 7 and replace them if necessary. Also check all ignition wiring and components to be sure they are not cracked, worn or damaged in any way.

#### To keep locks from freezing

To keep the locks from freezing, squirt an approved de-icer fluid or glycerine into the key opening. If a lock is covered with ice, squirt it with an approved de-icing fluid to remove the ice. If the lock is frozen internally, you may be able to thaw it out by using a heated key. Handle the heated key with care to avoid injury.

# Use approved window washer anti-freeze in system

To keep the water in the window washer system from freezing, add an approved window washer anti-freeze solution in accordance with instructions on the container. Window washer anti-freeze is available from an authorized Hyundai dealer and most auto parts outlets. Do not use engine coolant or other types of anti-freeze as these may damage the paint finish.

# Don't let your parking brake freeze

Under some conditions your parking brake can freeze in the engaged position. This is most likely to happen when there is an accumulation of snow or ice around or near the rear brakes or if the brakes are wet. If there is a risk the parking brake may freeze, apply it only temporarily while you put the gear selector lever in P (automatic transaxle) or in first or reverse gear (manual transaxle) and block the rear wheels so the car cannot roll. Then release the parking brake.

#### Don't let ice and snow accumulate underneath

Under some conditions, snow and ice can build up under the fenders and interfere with the steering. When driving in severe winter conditions where this may happen, you should periodically check underneath the car to be sure the movement of the front wheels and the steering components is not obstructed.

#### Carry emergency equipment

Depending on the severity of the weather where you drive your car, you should carry appropriate emergency equipment. Some of the items you may want to carry include tire chains, tow straps or chains, flashlight, emergency flares, sand, a shovel, jumper cables, a window scraper, gloves, ground cloth, coveralls, a blanket, etc.

### **TRAILER TOWING**

If you are considering towing with your car, you should first check with your state's Department of Motor Vehicles to determine their legal requirements. Since laws vary from state to state the requirements for towing trailers, cars, or other types of vehicles or apparatus may differ. Ask an authorized Hyundai dealer for further details before towing.

#### WARNING - Towing a trailer

If you don't use the correct equipment and drive improperly, you can lose control when you pull a trailer. For example, if the trailer is too heavy, the brakes may not work well - or even at all. You and your passengers could be seriously or fatally injured. Pull a trailer only if you have followed all the steps in this section.

WARNING - Weight limits Before towing, make sure the total trailer weight, gross combination weight, gross vehicle weight, gross axle weight and trailer tongue load are all within the limits.

## 

Pulling a trailer improperly can damage your vehicle and result in costly repairs not covered by your warranty. To pull a trailer correctly, follow the advice in this section.

Your vehicle can tow a trailer. To identify what the vehicle trailering capacity is for your vehicle, you should read the information in "Weight of the trailer" that appears later in this section.

Remember that trailering is different than just driving your vehicle by itself. Trailering means changes in handling, durability, and fuel economy. Successful, safe trailering requires correct equipment, and it has to be used properly. This section contains many time-tested, important trailering tips and safety rules. Many of these are important for your safety and that of your passengers. Please read this section carefully before you pull a trailer.

Load-pulling components such as the engine, transaxle, wheel assemblies, and tires are forced to work harder against the load of the added weight. The engine is required to operate at relatively higher speeds and under greater loads. This additional burden generates extra heat. The trailer also adds considerably to wind resistance, increasing the pulling requirements.

#### Hitches

It's important to have the correct hitch equipment. Crosswinds, large trucks going by, and rough roads are a few reasons why you'll need the right hitch. Here are some rules to follow:

• Will you have to make any holes in the body of your vehicle when you install a trailer hitch? If you do, then be sure to seal the holes later when you remove the hitch.

If you don't seal them, deadly carbon monoxide (CO) from your exhaust can get into your vehicle, as well as dirt and water.

• The bumpers on your vehicle are not intended for hitches. Do not attach rental hitches or other bumper-type hitches to them. Use only a framemounted hitch that does not attach to the bumper.

#### Safety chains

You should always attach chains between your vehicle and your trailer. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch.

Instructions about safety chains may be provided by the hitch manufacturer or by the trailer manufacturer. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack so you can turn with your trailer. And, never allow safety chains to drag on the ground.

#### **Trailer brakes**

If your trailer is equipped with a braking system, make sure it conforms to federal and/or local regulations and that it is properly installed and operating correctly. If your trailer weighs more than the maximum trailer weight without trailer brakes loaded, then it needs its own brakes and they must be adequate. Be sure to read and follow the instructions for the trailer brakes so you'll be able to install, adjust and maintain them properly.

Don't tap into your vehicle's brake system.

WARNING - Trailer brakes Do not use a trailer with its own brakes unless you are absolutely certain that you have properly set up the brake system. This is not a task for amateurs. Use an experienced, competent trailer shop for this work.

#### Driving with a trailer

Towing a trailer requires a certain amount of experience. Before setting out for the open road, you must get to know your trailer. Acquaint yourself with the feel of handling and braking with the added weight of the trailer. And always keep in mind that the vehicle you are driving is now a good deal longer and not nearly so responsive as your vehicle is by itself.

Before you start, check the trailer hitch and platform, safety chains, electrical connector(s), lights, tires and mirror adjustment. If the trailer has electric brakes, start your vehicle and trailer moving and then apply the trailer brake controller by hand to be sure the brakes are working. This lets you check your electrical connection at the same time.

During your trip, check occasionally to be sure that the load is secure, and that the lights and any trailer brakes are still working.

#### Following distance

Stay at least twice as far behind the vehicle ahead as you would when driving your vehicle without a trailer. This can help you avoid situations that require heavy braking and sudden turns.

#### Passing

You'll need more passing distance up ahead when you're towing a trailer. And, because of the increased vehicle length, you'll need to go much farther beyond the passed vehicle before you can return to your lane.

#### Backing up

Hold the bottom of the steering wheel with one hand. Then, to move the trailer to the left, just move your hand to the left. To move the trailer to the right, move your hand to the right. Always back up slowly and, if possible, have someone guide you.

#### Making turns

When you're turning with a trailer, make wider turns than normal. Do this so your trailer won't strike soft shoulders, curbs, road signs, trees, or other objects. Avoid jerky or sudden maneuvers. Signal well in advance.

#### Turn signals when towing a trailer

When you tow a trailer, your vehicle has to have a different turn signal flasher and extra wiring. The green arrows on your instrument panel will flash whenever you signal a turn or lane change. Properly connected, the trailer lights will also flash to alert other drivers you're about to turn, change lanes, or stop.

When towing a trailer, the green arrows on your instrument panel will flash for turns even if the bulbs on the trailer are burned out. Thus, you may think drivers behind you are seeing your signals when, in fact, they are not. It's important to check occasionally to be sure the trailer bulbs are still working. You must also check the lights every time you disconnect and then reconnect the wires.

Do not connect a trailer lighting system directly to your vehicle's lighting system. Use only an approved trailer wiring harness.

An authorized Hyundai dealer can assist you in installing the wiring harness.

## A WARNING

Failure to use an approved trailer wiring harness could result in damage to the vehicle electrical system and/or personal injury.

#### Driving on grades

Reduce speed and shift to a lower gear before you start down a long or steep downgrade. If you don't shift down, you might have to use your brakes so much that they would get hot and no longer operate efficiently.

On a long uphill grade, shift down and reduce your speed to around 18.6 mph (30 km/h) to reduce the possibility of engine and transaxle overheating.

If your trailer weighs more than the maximum trailer weight without trailer brakes and you have an automatic transaxle, you should drive in D (Drive) when towing a trailer.

Operating your vehicle in D (Drive) when towing a trailer will minimize heat build up and extend the life of your transaxle.

## 

- When towing a trailer on steep grades (in excess of 6%) pay close attention to the engine coolant temperature gauge to ensure the engine does not overheat. If the needle of the coolant temperature gauge moves across the dial towards "H" (HOT), pull over and stop as soon as it is safe to do so, and allow the engine to idle until it cools down. You may proceed once the engine has cooled sufficiently.
- You must decide driving speed depending on trailer weight and uphill grade to reduce the possibility of engine and transaxle overheating.

#### Parking on hills

Generally, you should not park your vehicle, with a trailer attached, on a hill. People can be seriously or fatally injured, and both your vehicle and the trailer can be damaged if they begin a downhill trajectory.

# WARNING - Parking on a hill

Parking your vehicle on a hill with a trailer attached could cause serious injury or death, should the trailer break lose.

However, if you ever have to park your trailer on a hill, here's how to do it:

- 1. Apply your brakes, but don't shift into gear.
- 2. Have someone place chocks under the trailer wheels.
- 3. When the wheel chocks are in place, release the brakes until the chocks absorb the load.
- 4. Reapply the brakes. Apply your parking brake, and then shift to R (Reverse) for a manual transaxle or P (Park) for an automatic transaxle.
- 5. Release the brakes.

## **A** WARNING - Parking brake

It can be dangerous to get out of your vehicle if the parking brake is not firmly set.

If you have left the engine running, the vehicle can move suddenly. You or others could be seriously or fatally injured.

# When you are ready to leave after parking on a hill

- 1. With the manual transaxle in Neutral or automatic transaxle in P (Park), apply your brakes and hold the brake pedal down while you:
  - Start your engine;
  - · Shift into gear; and
  - Release the parking brake.
- 2. Slowly remove your foot from the brake pedal.
- 3. Drive slowly until the trailer is clear of the chocks.
- 4. Stop and have someone pick up and store the chocks.

#### Maintenance when trailer towing

Your vehicle will need service more often when you regularly pull a trailer. Important items to pay particular attention to include engine oil, automatic transaxle fluid, axle lubricant and cooling system fluid. Brake condition is another important item to frequently check. Each item is covered in this manual, and the Index will help you find them auickly. If you're trailering, it's a good idea to review these sections before you start your trip. Don't forget to also maintain your trailer and hitch. Follow the maintenance schedule that accompanied your trailer and check it periodically. Preferably, conduct the check at the start of each day's driving. Most importantly, all hitch nuts and bolts should be tight.

## 

- Due to higher load during trailer usage, overheating might occur in hot days or during uphill driving. If the coolant gauge indicates over-heating, switch off the A/C and stop the vehicle in a safe area to cool down the engine.
- When towing check transaxle fluid more frequently.
- If your vehicle is not equipped with the air conditioner, you should install a condenser fan to improve engine performance when towing a trailer.

#### If you do decide to pull a trailer

Here are some important points if you decide to pull a trailer:

- Consider using a sway control. You can ask a hitch dealer about sway control.
- Do not do any towing with your car during its first 1,200 miles (2,000 km) in order to allow the engine to properly break in. Failure to heed this caution may result in serious engine or transaxle damage.
- When towing a trailer, be sure to consult an authorized Hyundai dealer for further information on additional requirements such as a towing kit, etc.
- Always drive your vehicle at a moderate speed (less than 60 mph (100 km/h)).
- On a long uphill grade, do not exceed 45 mph (70 km/h) or the posted towing speed limit, whichever is lower.
- The important considerations have to do with weight:

Item		lbs. (kg)	
Maximum trailer weight	Without brake System	750 (340)	
	With brake System	1500 (680)	
Maximum permissiblestatic vertical load on the coupling device		165 (75)	
Recommended distance from rear wheel center to coupling point		42.9 (1090)	
inch (mm)			



#### Weight of the trailer

How heavy can a trailer safely be? It should never weigh more than the maximum trailer weight with trailer brakes. But even that can be too heavy.

It depends on how you plan to use your trailer. For example, speed, altitude, road grades, outside temperature and how often your vehicle is used to pull a trailer are all important. The ideal trailer weight can also depend on any special equipment that you have on your vehicle.

#### Weight of the trailer tongue

The tongue load of any trailer is an important weight to measure because it affects the total gross vehicle weight (GVW) of your vehicle. This weight includes the curb weight of the vehicle, any cargo you may carry in it, and the people who will be riding in the vehicle. And if you will tow a trailer, you must add the tongue load to the GVW because your vehicle will also be carrying that weight.

The trailer tongue should weigh a maximum of 10% of the total loaded trailer weight. After you've loaded your trailer, weigh the trailer and then the tongue, separately, to see if the weights are proper. If they aren't, you may be able to correct them simply by moving some items around in the trailer.



#### A WARNING - Trailer

• Never load a trailer with more weight in the rear than in the front. The front should be loaded with approximately 60% of the total trailer load; the rear should be loaded with approximately 40% of the total trailer load.

(Continued)

#### (Continued)

- Never exceed the maximum weight limits of the trailer or trailer towing equipment. Improper loading can result in damage to your vehicle and/or personal injury. Check weights and loading at a commercial scale or highway patrol office equipped with scales.
- An improperly loaded trailer can cause loss of vehicle control.

## VEHICLE LOAD LIMIT

		ire and l			TION
The conbit	SEATII	NG CAPACITY			REAR 3
TIRE	SIZE	COLD TIRE		r .	DWNER'S
FRONT	P195/65R15	220KPA	32PS1		AL FOR
REAR	P195/65R15	220KPA	, 32PSI		TIONAL
SPARE	T125/80D15	420KPA	60PS1	INFO	RMATION

		IRE AND L	OADING	INFORMA	TION
	ון (SEATI	NG CAPACITY	TOTAL 5	FRONT 2	REAR 3
The combin	ned weight of occu	wants and carg	o should neve	r exceed 385	kg or 850 lbs.
TIRE	SIZE	COLD TIRE	PRESSUR	e see	OWNER'S
FRONT	P205/55R16	220KPA	, 32PSI		JAL FOR
REAR	P205/55R16	220KPA	, 32PSI		TIONAL
SPARE	T125/80D15	420KPA	, 60PS1	INFO	RMATION

#### OHD056900N

#### Tire and loading information label

The label located on the driver's door sill gives the original tire size, cold tire pressures recommended for your vehicle, the number of people that can be in your vehicle and vehicle capacity weight.

#### Vehicle capacity weight: 850 lbs (385 kg)

Vehicle capacity weight is the maximum combined weight of occupants and cargo. If your vehicle is equipped with a trailer, the combined weight includes the tongue load.

#### Seating capacity:

Total : 5 persons

(Front seat : 2 persons, Rear seat : 3 persons)

Seating capacity is the maximum number of occupants including a driver, your vehicle may carry. However the seating capacity may be reduced based upon the weight of all of the occupants, and the weight of the cargo being carried or towed.

Do not overload the vehicle as there is a limit to the total weight, or load limit including occupants and cargo, the vehicle can carry.

```
Towing capacity:
Without trailer brakes:
750 lbs (340 kg)
With trailer brakes:
1500 lbs (680 kg)
```

Towing capacity is the maximum trailer weight including its cargo weight, your vehicle can tow.

#### Cargo capacity:

The cargo capacity of your vehicle will increase or decrease depending on the weight and the number of occupants and the tongue load, if your vehicle is equipped with a trailer. Steps for determining correct load limit

- 1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." 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 lbs.
- 4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs. (635 kg), and there will be five 150 lbs. (68 kg) passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (295 kg).

(1400-750 (5 x 150) = 650 lbs. or 635-340 (5 x 68) = 295 kg)

- 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.
- 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.



C190F01JM

Item	Description	Total
	Vehicle Capacity	1400 lbs
A	Weight	(635 kg)
	Subtract Occupant	300 lbs
В	Weight	(136 kg)
	150 lbs (68 kg) × 2	(100 Kg)
_	Available Cargo and	1100 lbs
С	Luggage weight	(499 kg)







C190F03JM



Description Total Item 1400 lbs Vehicle Capacity А Weight (635 kg) Subtract Occupant 750 lbs В Weight (340 kg) 150 lbs (68 kg) × 5 Available Cargo and 650 lbs С (295 kg) Luggage weight

Item	Description	Total
	Vehicle Capacity	1400 lbs
A	Weight	(635 kg)
	Subtract Occupant	860 lbs
В	Weight	(390 kg)
	172 lbs (78 kg) × 5	(590 kg)
0	Available Cargo and	540 lbs
С	Luggage weight	(245 kg)

Refer to your vehicle's tire and loading information label for specific information about your vehicle's capacity weight and seating positions. The combined weight of the driver, passengers and cargo should never exceed your vehicle's capacity weight.

#### **Compliance label**

The compliance label is located on the driver's door sill.

This label shows the maximum allowable weight of the fully loaded vehicle. This is called the GVWR (Gross Vehicle Weight Rating). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

This label also tells you the maximum weight that can be supported by the front and rear axles, called Gross Axle Weight Rating (GAWR).

5 49

To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Your dealer can help you with this. Be sure to spread out your load equally on both sides of the centerline.

**A WARNING** - Over loading

• Never exceed the GVWR for your vehicle, the GAWR for either the front or rear axle and vehicle capacity weight. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (or people) before putting them in the vehicle. Be careful not to overload your vehicle.

(Continued)

#### (Continued)

 Do not load your vehicle any heavier than the GVWR, either the maximum front or rear GAWR and vehicle capacity weight. If you do, parts, including tires on your vehicle can break, and it can change the way your vehicle handles and braking ability. This could cause you to lose control and crash. Also, overloading can shorten the life of your vehicle.

The label will help you decide how much cargo and installed equipment your vehicle can carry.

If you carry items inside your vehicle - like suitcases, tools, packages, or anything else - they are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items will keep going and can cause an injury if they strike the driver or a passenger.

## **A** WARNING

- Overloading your vehicle can cause heat buildup in your vehicle's tires and possible tire failure that could lead to a crash.
- Overloading your vehicle can cause increased stopping distances that could lead to a crash.
- A crash resulting from poor handling vehicle damage, tire failure, or increased stopping distances could result in serious injury or death.

## 

- Overloading your vehicle may cause damage. Repairs would not be covered by your warranty. Do not overload your vehicle.
- Using heavier suspension components to get added durability might not change your weight ratings. Ask your dealer to help you load your vehicle the right way.

## **A** WARNING - Loose cargo

Items you carry inside your vehicle can strike and injure occupants in a sudden stop or turn, or in a crash.

- Put items in the cargo area of your vehicle. Try to spread the weight evenly.
- Never stack items, like suitcases, inside the vehicle above the tops of the seats.
- Do not leave an unsecured child restraint in your vehicle.
- When you carry something inside the vehicle, secure it.
- Do not drive with a seat folded down unless necessary.

### WEIGHT OF THE VEHICLE

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of the vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, with or without a trailer, from the vehicle's specifications and the compliance label:

#### Base curb weight

This is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

#### Vehicle curb weight

This is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.

#### Cargo weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

#### GAW (Gross axle weight)

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

#### GAWR (Gross axle weight rating)

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the compliance label.

The total load on each axle must never exceed its GAWR.

#### GVW (Gross vehicle weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

#### GVWR (Gross vehicle weight rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the compliance label located on the driver's door sill.

#### Overloading

A WARNING - Vehicle weight The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) for your vehicle are on the manufacturer's label attached to the driver's door. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (and people) before putting them in the vehicle. Be careful not to overload your vehicle.

Road warning / 6-2 In case of an emergency while driving / 6-2 If the engine will not start / 6-3 Emergency starting / 6-4 If the engine overheats / 6-5 If you have a flat tire / 6-7 Towing / 6-15

## What to do in an emergency

6

## **ROAD WARNING**



#### Hazard warning flasher

The hazard warning flasher serves as a warning to other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle.

It should be used whenever emergency repairs are being made or when the vehicle is stopped near the edge of a roadway.

Depress the flasher switch with the ignition switch in any position. The flasher switch is located in the center console switch panel. All turn signal lights will flash simultaneously.

- The hazard warning flasher operates whether your vehicle is running or not.
- The turn signals do not work when the hazard flasher is on.
- Care must be taken when using the hazard warning flasher while the vehicle is being towed.

# IN CASE OF AN EMERGENCY WHILE DRIVING

#### If you have a flat tire while driving

If a tire goes flat while you are driving:

- 1. Take your foot off the accelerator pedal and let the car slow down while driving straight ahead. Do not apply the brakes immediately or attempt to pull off the road as this may cause a loss of control. When the car has slowed to such a speed that it is safe to do so, brake carefully and pull off the road. Drive off the road as far as possible and park on firm, level ground. If you are on a divided highway, do not park in the median area between the two traffic lanes.
- 2. When the car is stopped, turn on your emergency hazard flashers, set the parking brake and put the transaxle in P (automatic transaxle) or reverse (manual transaxle).
- 3. Have all passengers get out of the car. Be sure they all get out on the side of the car that is away from traffic.
- 4. When changing a flat tire, follow the instruction provided later in this section.

## If engine stalls while driving

- 1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
- 2. Turn on your emergency flashers.
- 3. Try to start the engine again. If your vehicle will not start, contact an authorized Hyundai dealer or seek other qualified assistance.

## IF THE ENGINE WILL NOT START

## **A** WARNING

If the engine will not start, do not push or pull the car to start it. This could result in a collision or cause other damage. In addition, push or pull starting may cause the catalytic converter to be overloaded and create a fire hazard.

# If engine doesn't turn over or turns over slowly

- If your car has an automatic transaxle, be sure the gear selector lever is in N (Neutral) or P (Park) and the emergency brake is set.
- 2. Check the battery connections to be sure they are clean and tight.
- 3. Turn on the interior light. If the light dims or goes out when you operate the starter, the battery is discharged.
- 4. Check the starter connections to be sure they are securely tightened.
- 5. Do not push or pull the vehicle to start it. See instructions for "Jump starting".

# If engine turns over normally but does not start

- 1. Check fuel level.
- 2. With the ignition switch in the OFF position, check all connectors at ignition, coil and spark plugs. Reconnect any that may be disconnected or loose.
- 3. Check the fuel line in the engine compartment.
- 4. If the engine still does not start, call an authorized Hyundai dealer or seek other qualified assistance.

## EMERGENCY STARTING



#### Jump starting

Jump starting can be dangerous if done incorrectly. Therefore, to avoid harm to yourself or damage to your vehicle or battery, follow the jump starting procedures. If in doubt, we strongly recommend that you have a competent technician or towing service jump start your vehicle.

## 

Use only a 12-volt jumper system. You can damage a 12-volt starting motor, ignition system, and other electrical parts beyond repair by use of a 24-volt power supply (either two 12-volt batteries in series or a 24-volt motor generator set).

## **WARNING** - Battery

Never attempt to check the electrolyte level of the battery as this may cause the battery to rupture or explode causing serious injury.

## **A** WARNING - Battery

- Keep all flames or sparks away from the battery. The battery produces hydrogen gas which may explode if exposed to flame or sparks.
- Do not attempt to jump start the vehicle if the discharged battery is frozen or if the electrolyte level is low; the battery may rupture or explode.

#### Jump starting procedure

- 1. Make sure the booster battery is 12volt and that its negative terminal is grounded.
- 2. If the booster battery is in another vehicle, do not allow the vehicles to touch.
- 3. Turn off all unnecessary electrical loads.
- 4. Connect the jumper cables in the exact sequence shown in the illustration. First connect one end of a jumper cable to the positive terminal of the discharged battery (1), then connect the other end to the positive terminal on the booster battery (2). Proceed to connect one end of the other jumper cable to the negative terminal of the booster battery (3), then the other end to a solid, stationary, metallic point (for example, the engine lifting bracket) away from the battery (4). Do not connect it to or near any part that moves when the engine is cranked.

Do not allow the jumper cables to contact anything except the correct battery terminals or the correct ground. Do not lean over the battery when making connections. ⚠ CAUTION - Battery cables Do not connect the jumper cable from the negative terminal of the booster battery to the negative terminal of the discharged battery. This can cause the discharged battery to overheat and crack, releasing battery acid.

5. Start the engine of the vehicle with the booster battery and let it run at 2,000 rpm, then start the engine of the vehicle with the discharged battery.

If the cause of your battery discharging is not apparent, you should have your vehicle checked by an authorized Hyundai dealer.

#### **Push-starting**

Vehicles equipped with automatic transaxle cannot be push-started. Follow the directions in this section for

jump-starting.

## 

Never tow a vehicle to start it because the sudden surge forward when the engine starts could cause a collision with the tow vehicle.

## IF THE ENGINE OVERHEATS

If your temperature gauge indicates overheating, you experience a loss of power, or hear loud pinging or knocking, the engine is probably too hot. If this happens, you should:

- 1. Pull off the road and stop as soon as it is safe to do so.
- 2. Place the gear selector lever in P (automatic transaxle) or neutral (manual transaxle) and set the parking brake. If the air conditioning is on, turn it off.
- 3. If engine coolant is running out under the car or steam is coming out from the hood, stop the engine. Do not open the hood until the coolant has stopped running or the steaming has stopped. If there is no visible loss of engine coolant and no steam, leave the engine running and check to be sure the engine cooling fan is operating. If the fan is not running, turn the engine off.
- 4. Check to see if the water pump drive belt is missing. If it is not missing, check to see that it is tight. If the drive belt seems to be satisfactory, check for coolant leaking from the radiator, hoses or under the car. (If the air conditioning had been in use, it is normal for cold water to be draining from it when you stop).

## **A** WARNING

While the engine is running, keep hair, hands and clothing away from moving parts such as the fan and drive belts to prevent injury.

5. If the water pump drive belt is broken or engine coolant is leaking out, stop the engine immediately and call the nearest authorized Hyundai dealer for assistance.

## A WARNING

Do not remove the radiator cap when the engine is hot. This can allow coolant to be blown out of the opening and cause serious burns.

- 6. If you cannot find the cause of the overheating, wait until the engine temperature has returned to normal. Then, if coolant has been lost, carefully add coolant to the reservoir to bring the fluid level in the reservoir up to the halfway mark.
- 7. Proceed with caution, keeping alert for further signs of overheating. If overheating happens again, call an authorized Hyundai dealer for assistance.

## 

Serious loss of coolant indicates there is a leak in the cooling system and this should be checked as soon as possible by an authorized Hyundai dealer.

#### IF YOU HAVE A FLAT TIRE



#### Jacking instructions

The jack is provided for emergency tire changing only.

To prevent the jack from "rattling" while the vehicle is in motion, store it properly.

Follow jacking instructions to reduce the possibility of personal injury.

#### A WARNING - Changing tires

- Never attempt vehicle repairs in the traffic lanes of a public road or highway.
- Always move the vehicle completely off the road and onto the shoulder before trying to change a tire. The jack should be used on level firm ground. If you cannot find a firm, level place off the road, call a towing service company for assistance.
- Be sure to use the correct front and rear jacking positions on the vehicle; never use the bumpers or any other part of the vehicle for jack support.

(Continued)

#### Jack and tools

The spare tire, jack, jack handle, wheel lug nut wrench are stored in the luggage compartment. Remove the luggage under tray out of the way to reach this equipment.

- 1. Spanner
- 2. Jack handle
- 3. Jack
- 4. Wheel lug nut wrench
- 5. Screwdriver

#### (Continued)

- The vehicle can easily roll off the jack causing serious injury or death. No person should place any portion of their body under a vehicle that is supported only by a jack; use vehicle support stands.
- Do not start or run the engine while the vehicle is on the jack.
- Do not allow anyone to remain in the vehicle while it is on the jack.
- Make sure any children present are in a secure place away from the road and from the vehicle to be raised with the jack.



# Removing and storing the spare tire

Turn the tire hold-down wing bolt counterclockwise.

Store the tire in the reverse order of removal.

To prevent the spare tire and tools from "rattling" while the vehicle is in motion, store them properly.



### **Changing tires**

- 1. Park on a level surface and apply the parking brake firmly.
- 2. Shift the shift lever into R (Reverse) with manual transaxle or P (Park) with automatic transaxle.
- 3. Activate the hazard warning flasher.



- 4. Remove the wheel lug nut wrench, jack, jack handle, and spare tire from the vehicle.
- 5. Block both the front and rear of the wheel that is diagonally opposite the jack position.

## A WARNING - Changing a tire

- To prevent vehicle movement while changing a tire, always set the parking brake fully, and always block the wheel diagonally opposite the wheel being changed.
- We recommend that the wheels of the vehicle be chocked, and that no person remain in a vehicle that is being jacked.



6. Loosen the wheel lug nuts counterclockwise one turn each, but do not remove any nut until the tire has been raised off the ground.





7. Place the jack at the front or rear jacking position closest to the tire you are changing. Place the jack at the designated locations under the frame. The jacking positions are plates welded to the frame with two tabs and a raised dot to index with the jack.

WARNING - Jack location To reduce the possibility of injury, be sure to use only the jack provided with the vehicle and in the correct jack position; never use any other part of the vehicle for jack support.

- 8. Insert the jack handle into the jack and turn it clockwise, raising the vehicle until the tire just clears the ground. This measurement is approximately 1.2 in (30 mm). Before removing the wheel lug nuts, make sure the vehicle is stable and that there is no chance for movement or slippage.
- 9. Loosen the wheel nuts and remove them with your fingers. Slide the wheel off the studs and lay it flat so it cannot roll away. To put the wheel on the hub, pick up the spare tire, line up the holes with the studs and slide the wheel onto them. If this is difficult, tip the wheel slightly and get the top hole in the wheel lined up with the top stud. Then jiggle the wheel back and forth until the wheel can be slid over the other studs.

## **A** WARNING

Wheels and wheel covers may have sharp edges. Handle them carefully to avoid possible severe injury. Before putting the wheel into place, be sure that there is nothing on the hub or wheel (such as mud, tar, gravel, etc.) that interferes with the wheel from fitting solidly against the hub.

If there is, remove it. If there is not good contact on the mounting surface between the wheel and hub, the wheel nuts could come loose and cause the loss of a wheel. Loss of a wheel may result in loss of control of the vehicle. This may cause serious injury or death.

- 10. To reinstall the wheel, hold it on the studs, put the wheel nuts on the studs and tighten them finger tight. The nuts should be installed with their small diameter ends directed inward. Jiggle the tire to be sure it is completely seated, then tighten the nuts as much as possible with your fingers again.
- 11. Lower the car to the ground by turning the wheel nut wrench counterclockwise.



Then position the wrench as shown in the drawing and tighten the wheel nuts. Be sure the socket is seated completely over the nut. Do not stand on the wrench handle or use an extension pipe over the wrench handle.

Go around the wheel tightening every other nut until they are all tight. Then double-check each nut for tightness. After changing wheels, have a technician tighten the wheel nuts to their proper torque as soon as possible.

#### Wheel nut tightening torque:

Steel wheel & aluminum alloy wheel:

65~79 lb.ft (9~11 kg.m)

If you have a tire gauge, remove the valve cap and check the air pressure. If the pressure is lower than recommended, drive slowly to the nearest service station and inflate to the correct pressure. If it is too high, adjust it until it is correct. Always reinstall the valve cap after checking or adjusting tire pressure. If the cap is not replaced, air may leak from the tire. If you lose a valve cap, buy another and install it as soon as possible.

After you have changed wheels, always secure the flat tire in its place and return the jack and tools to their proper storage locations.

## 

Your vehicle has metric threads on the wheel studs and nuts. Make certain during wheel removal that the same nuts removed are reinstalled - or, if replaced, that nuts with metric threads and the same chamfer configuration are used. Installation of a non-metric thread nut on a metric stud or vice-versa will not secure the wheel to the hub properly and will damage the stud so that it must be replaced.

Note that most lug nuts do not have metric threads. Be sure to use extreme care in checking for thread style before installing aftermarket lug nuts or wheels. If in doubt, consult an authorized Hyundai dealer. A WARNING - Wheel studs If the studs are damaged, they may lose their ability to retain the wheel. This could lead to the loss of the wheel and a collision resulting in serious injuries.

To prevent the jack, jack handle, wheel lug nut wrench and spare tire from rattling while the vehicle is in motion, store them properly.

WARNING - Inadequate spare tire pressure Check the inflation pressures as soon as possible after installing the spare tire. Adjust it to the specified pressure, if necessary. Refer to Section 9, Specifications. *Important - use of compact spare tire* Your vehicle is equipped with a compact spare tire. This compact spare tire takes up less space than a regular-size tire. This tire is smaller than a conventional tire and is designed for temporary use only.

## 

- You should drive carefully when the compact spare is in use. The compact spare should be replaced by the proper conventional tire and rim at the first opportunity.
- The operation of this vehicle is not recommended with more than one compact spare tire in use at the same time.

## **A** WARNING

The temporary spare tire is for emergency use only. Do not operate your vehicle on this temporary spare at speeds over 50 mph (80 kmh). The original tire should be repaired or replaced as soon as is possible to avoid failure of the spare possibly leading to personal injury or death.

The compact spare should be inflated to 60 psi (420 kPa).

## **\* NOTICE**

Check the inflation pressure after installing the spare tire. Adjust it to the specified pressure, as necessary. When using a compact spare tire, observe the following precautions:

- Under no circumstances should you exceed 50 mph (80 km/h); a higher speed could damage the tire.
- Ensure that you drive slowly enough for the road conditions to avoid all hazards. Any road hazard, such as a pothole or debris, could seriously damage the compact spare.
- Any continuous road use of this tire could result in tire failure, loss of vehicle control, and possible personal injury.
- Do not exceed the vehicle's maximum load rating or the load-carrying capacity shown on the sidewall of the compact spare tire.
- Avoid driving over obstacles. The compact spare tire diameter is smaller than the diameter of a conventional tire and reduces the ground clearance approximately 1 inch (25 mm), which could result in damage to the vehicle.

- Do not take this vehicle through an automatic car wash while the compact spare tire is installed.
- Do not use tire chains on the compact spare tire. Because of the smaller size, a tire chain will not fit properly. This could damage the vehicle and result in loss of the chain.
- The compact spare tire should not be installed on the front axle if the vehicle must be driven in snow or on ice.
- Do not use the compact spare tire on any other vehicle because this tire has been designed especially for your vehicle.
- The compact spare tire's tread life is shorter than a regular tire. Inspect your compact spare tire regularly and replace worn compact spare tires with the same size and design, mounted on the same wheel.

- The temporary spare tire should not be used on any other wheels, nor should standard tires, snow tires, wheel covers or trim rings be used with the temporary spare wheel. If such use is attempted, damage to these items or other car components may occur.
- Do not use more than one temporary spare tire at a time.
- Do not tow a trailer while the temporary spare tire is installed.

#### TOWING



It is acceptable to tow the vehicle with the rear wheels on the ground (without dollies) and the front wheels off the ground. If any of the loaded wheels or suspension components are damaged or the vehicle is being towed with the front wheels on the ground, use a towing dolly under the front wheels.

When being towed by a commercial tow truck and wheel dollies are not used, the front of the vehicle should always be lifted, not the rear.

## 

Before towing, check the level of the automatic transaxle fluid. If it is below the "HOT" range on the dipstick, add fluid. If you cannot add fluid, a towing dolly must be used.



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## 

- Do not tow the vehicle backwards with the front wheels on the ground as this may cause damage to the vehicle.
- Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.

#### **Towing service**

If emergency towing is necessary, we recommend having it done by an authorized Hyundai dealer or a commercial tow-truck service. Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

For trailer towing guidelines information, refer to section 5 "Driving your vehicle".
When towing your vehicle in an emergency without wheel dollies :

- 1. Set the ignition switch in the ACC position.
- 2. Place the transaxle shift lever in N (Neutral).
- 3. Release the parking brake.

# 

Failure to place the transaxle shift lever in N (Neutral) may cause internal damage to the transaxle.



## **Emergency towing**

If towing is necessary, we recommend you to have it done by an authorized Hyundai dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing hook under the front (or rear) of the vehicle. Use extreme caution when towing the vehicle. A driver must be in the vehicle to steer it and operate the brakes.

Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, power train, steering and brakes must all be in good condition.

- Do not use the tow hooks to pull a vehicle out of mud, sand or other conditions from which the vehicle cannot be driven out under its own power.
- Avoid towing a vehicle heavier than the vehicle doing the towing.
- The drivers of both vehicles should communicate with each other frequently.

## 

- Attach a towing strap to the tow hook.
- Using a portion of the vehicle other than the tow hooks for towing may damage the body of your vehicle.
- Use only a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing hook provided.
- Before emergency towing, check that the hook is not broken or damaged.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply steady and even force.
- To avoid damaging the hook, do not pull from the side or at a vertical angle. Always pull straight ahead.

## **A** WARNING

Use extreme caution when towing the vehicle.

- Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing hook and towing cable or chain. The hook and towing cable or chain may break and cause serious injury or damage.
- If the disabled vehicle is unable to be moved, do not forcibly continue the towing. Contact an authorized Hyundai dealer or a commercial tow truck service for assistance.
- Tow the vehicle as straight ahead as possible.
- Keep away from the vehicle during towing.



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- Use a towing strap less than 16 feet (5 m) long. Attach a white or red cloth (about 12 inches (30 cm) wide) in the middle of the strap for easy visibility.
- Drive carefully so that the towing strap is not loosened during towing.

### Emergency towing precautions

- Turn the ignition switch to ACC so the steering wheel isn't locked.
- Place the transaxle shift lever in N (Neutral).
- Release the parking bake.
- Press the brake pedal with more force than normal since you will have reduced brake performance.
- More steering effort will be required because the power steering system will be disabled.
- If you are driving down a long hill, the brakes may overheat and brake performance will be reduced. Stop often and let the brakes cool off.

## 

If the car is being towed with all four wheels on the ground, it can be towed only from the front. Be sure that the transaxle is in neutral. Do not tow at speeds greater than 25 mph (40 km/h) and for more than 15 miles (25 km). Be sure the steering is unlocked by placing the ignition switch in the ACC position. A driver must be in the towed vehicle to operate the steering and brakes.



Tie-down hook (for flatbed towing)

## A WARNING

Do not use the hooks under the front of the vehicle for towing purposes. These hooks are designed ONLY for transport tie-down. If the tie-down hooks are used for towing, the tie-down hooks or front bumper will be damaged and this could lead to serious injury.

Engine compartment / 7-2 Maintenance services / 7-3 **Owner maintenance / 7-5** Scheduled maintenance service / 7-7 **Explanation of scheduled maintenance items / 7-12** Engine oil / 7-15 Engine coolant / 7-16 Brakes and clutch fluid / 7-19 Automatic transaxle fluid / 7-20 Washer fluid / 7-22 Parking brake / 7-22 Air cleaner / 7-23 Climate control air filter / 7-25 Wiper blades / 7-27 Battery / 7-29 Tires and wheels / 7-32

# Maintenance

Fuses / 7-45 Light bulbs / 7-54 Appearance care / 7-59 Emission control system / 7-65 7

## **ENGINE COMPARTMENT**

#### Gasoline Engine (2.0L)



1. Engine coolant reservoir

- 2. Engine oil filler cap
- 3. Brake fluid reservoir
- 4. Air cleaner
- 5. Fuse box
- 6. Negative battery terminal
- 7. Positive battery terminal
- 8. Auto transaxle oil dipstick\*
- 9. Radiator cap
- 10. Engine oil dipstick
- 11. Windshield washer fluid reservoir
- \* : if equipped

#### OHD076002

## MAINTENANCE SERVICES

You should exercise the utmost care to prevent damage to your vehicle and injury to yourself whenever performing any maintenance or inspection procedures.

Should you have any doubts concerning the inspection or servicing of your vehicle, we strongly recommend that you have an authorized Hyundai dealer perform this work.

An authorized Hyundai dealer has factory-trained technicians and genuine Hyundai parts to service your vehicle properly. For expert advice and quality service, see an authorized Hyundai dealer.

Inadequate, incomplete or insufficient servicing may result in operational problems with your vehicle that could lead to vehicle damage, an accident, or personal injury.

### Owner's responsibility

## **\* NOTICE**

Maintenance Service and Record Retention are the owner's responsibility.

You should retain documents that show proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service charts shown on the following pages. You need this information to establish your compliance with the servicing and maintenance requirements of your vehicle warranties. Detailed warranty information is provided in your Service Passport. Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered. We recommend you have your vehicle maintained and repaired by an authorized Hyundai dealer. An authorized Hyundai dealer meets Hyundai's high service quality standards and receives technical support from Hyundai in order to provide you with a high level of service satisfaction.

### **Owner maintenance precautions**

Improper or incomplete service may result in problems. This section gives instructions only for the maintenance items that are easy to perform.

As explained earlier in this section, several procedures can be done only by an authorized Hyundai dealer with special tools.

## **\* NOTICE**

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Service Passport provided with the vehicle. If you're unsure about any servicing or maintenance procedure, have it done by an authorized Hyundai dealer.

# WARNING - Maintenance work

- Performing maintenance work on a vehicle can be dangerous. You can be seriously injured while performing some maintenance procedures. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, have it done by an authorized Hyundai dealer.
- Working under the hood with the engine running is dangerous. It becomes even more dangerous when you wear jewelry or loose clothing. These can become entangled in moving parts and result in injury. Therefore, if you must run the engine while working under the hood, make certain that you remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the engine or cooling fans.

## **OWNER MAINTENANCE**

The following lists are vehicle checks and inspections that should be performed by the owner or an authorized Hyundai dealer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance Checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

### Owner maintenance schedule

When you stop for fuel:

- Check the engine oil level.
- Check coolant level in coolant reservoir.
- Check the windshield washer fluid level.
- Look for low or under-inflated tires.

## **A** WARNING

Be careful when checking your engine coolant level when the engine is hot. Scalding hot coolant and steam may blow out under pressure. This could cause burns or other serious injury. While operating your vehicle:

- Note any changes in the sound of the exhaust or any smell of exhaust fumes in the vehicle.
- Check for vibrations in the steering wheel. Notice any increased steering effort or looseness in the steering wheel, or change in its straight-ahead position.
- Notice if your vehicle constantly turns slightly or "pulls" to one side when traveling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or "hardto-push" brake pedal.
- If any slipping or changes in the operation of your transaxle occurs, check the transaxle fluid level.
- Check automatic transaxle P (Park) function.
- Check parking brake.
- Check for fluid leaks under your vehicle (water dripping from the air conditioning system during or after use is normal).

#### At least monthly:

- Check coolant level in the engine coolant reservoir.
- Check the operation of all exterior lights, including the stoplights, turn signals and hazard warning flashers.
- Check the inflation pressures of all tires including the spare.

At least twice a year

(i.e., every Spring and Fall) :

- Check radiator, heater and air conditioning hoses for leaks or damage.
- Check windshield washer spray and wiper operation. Clean wiper blades with clean cloth dampened with washer fluid.
- Check headlight alignment.
- Check muffler, exhaust pipes, shields and clamps.
- Check the lap/shoulder belts for wear and function.
- Check for worn tires and loose wheel lug nuts.

At least once a year :

- Clean body and door drain holes.
- Lubricate door hinges and checks, and hood hinges.
- Lubricate door and hood locks and latches.
- Lubricate door rubber weatherstrips.
- Check the air conditioning system.
- Inspect and lubricate automatic transaxle linkage and controls.
- Clean battery and terminals.
- Check the brake (and clutch) fluid level.

## SCHEDULED MAINTENANCE SERVICE

Follow Normal Maintenance Schedule if the vehicle is usually operated where none of the following conditions apply. If any of the following conditions apply, follow Maintenance Under Severe Usage Conditions.

- Repeated short distance driving.
- Driving in dusty conditions or sandy areas.
- Extensive use of brakes.
- Driving in areas where salt or other corrosive materials are being used.
- Driving on rough or muddy roads.
- Driving in mountainous areas.
- Extended periods of idling or low speed operation.
- Driving for a prolonged period in cold temperatures and/or extremely humid climates.
- More than 50% driving in heavy city traffic during hot weather above 90°F (32°C).

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After 96 month or 80,000 miles (120,000 km) continue to follow the prescribed maintenance intervals.

### NORMAL MAINTENANCE SCHEDULE

The following maintenance services must be performed to ensure good emission control and performance. Keep receipts for all vehicle emission services to protect your warranty. Where both mileage and time are shown, the frequency of service is determined by whichever occurs first.

R	:	Rep	lace
---	---	-----	------

I : Inspect and, after Inspection, clean, adjust, repair or replace if necessary.

				4.5	00 F		07.5	45			07.5		00 F		07.5	105	440 5	400	107.5	105	4 40 5	450
		MILES X 1000	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150
No.	DESCRIPTION	KILOMETERS X 1000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
		MONTHS	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	EMISSION CONTROL ITEM	IS																				
1	ENGINE OIL AND FILTER								Rep	lace	every	7,500	) mile	s or 1	2 mo	nths						
2	FUEL FILTER								R							R						
3	FUEL LINES, FUEL HOSES	AND CONNECTIONS				Т				Т				I				Т				Т
4	VACUUM HOSE		Ι	Т	Т	Т	Т	Ι	Ι	I	I	I	Т	I	I	Т	I	Т	Т	Т	I	Т
5	CRANKCASE VENTILATION	N HOSE				Ι				I				1				Т				Ι
6	VAPOR HOSE AND FUEL F	ILLER CAP				Ι				I				I				Ι				Ι
7	AIR CLEANER FILTER					R				R				R				R				R
8	SPARK PLUGS	PLATINUM COATED								R								R				
°	SPARK PLUGS	IRIDIUM COATED	Replace every 100,000 miles																			
9	VALVE CLEARANCE *1									Т								Т				
10	FUEL TANK AIR FILTER			I		R		Ι		R		Ι		R		I		R		I		R
11	ELECTRONIC THROTTLE	CONTROL		Ι		Ι		Ι		Ι		Ι		I		Ι		Ι		I		Ι

\*1 : Inspect for excessive tappet noise and/or engine vibration and adjust if necessary.

## NORMAL MAINTENANCE SCHEDULE (CONT.)

R : Replace

I : Inspect and, after inspection, clean, adjust, repair or replace if necessary

Г		MILES X 1000	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150
No	DESCRIPTION	KILOMETERS X 1000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
		MONTHS	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
Г	GENERAL ITEMS																					
1	DRIVE BELT (ALTERNATOF	R, A/CON, W/PUMP)	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
2	2 COOLANT		At first, replace at 60,000 miles (96,000 km) or 60 months																			
		After that, replace every 25,000 miles (40,000 km) or 24 months																				
3	TIMING BELT									I				R				I				R
4	TENSIONER/IDLER-TIMING	BELT								Ι				Ι				Ι				Ι
5	MANUAL TRANSAXLE OIL					Ι				I				Ι				Ι				Т
6	AUTOMATIC TRANSAXLE F	LUID		Т		Т		Ι		Т		Т		Т		R		Т		Т		Т
7	BRAKE FLUID					Ι				Т				Т				Ι				Т
8	BRAKE HOSES AND LINES			Ι		Ι		Ι		Ι		Ι		Ι		Ι		I		Т		Ι
9	REAR BRAKE DRUMS/LININ	NGS, PARKING BRAKE				Ι				Ι				Ι				Ι				Ι
10	BRAKE PADS, CALIPERS A	ND ROTORS		I		I		Ι		I		I		Ι		I		I		I		I

## NORMAL MAINTENANCE SCHEDULE (CONT.)

R : Replace

I : Inspect and, after inspection, clean, adjust, repair or replace if necessary

Г		MILES X 1000	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150
No	DESCRIPTION	KILOMETERS X 1000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
		MONTHS	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
Г	GENERAL ITEMS																					
11	EXHAUST PIPE AND MUFF	LER		Ι		Ι		I		Ι		Ι		Ι		Ι		Ι		I		I
12	SUSPENSION MOUNTING	BOLTS		Ι		Ι		I		Ι		Ι		Ι		Ι		Ι		I		Ι
	STEERING GEAR BOX, LIN	IKAGE & BOOTS																				
13	/LOWER ARM BALL JOINT,	UPPER ARM BALL		Т		Т		Т		Т		Т		I		Т		Т		1		I I
	JOINT																					
14	DRIVE SHAFTS AND BOOT	S		Ι		Ι		Ι		Ι		Ι		Ι		I		Ι		I		Ι
15	AIR CONDITIONING REFRI	GERANT		Ι		Ι		Ι		Ι		Ι		Ι		Ι		Ι		I		Т
16	CLIMATE CONTROL AIR FI	LTER	Replace every 12 months or 10,000 miles (15,000 km)																			
Ľ	(FOR EVAPORATOR AND E	BLOWER UNIT)																				

### MAINTENANCE UNDER SEVERE USAGE CONDITIONS

The following items must be serviced more frequently on cars normally used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and, after inspection, clean, adjust, repair or replace if necessary

MAINTENANCE ITEM	MAINTENANCE OPERATION	MAINTENANCE INTERVALS	DRIVING CONDITION			
ENGINE OIL AND FILTER	R	EVERY 3,000 MILES (5,000 KM) OR 3 MONTHS	A, B, C, D, E, F, G, H, I, K			
AIR CLEANER FILTER	R	MORE FREQUENTLY	C, E			
SPARK PLUGS	R	MORE FREQUENTLY	В, Н			
BRAKE PADS, CALIPERS AND ROTORS	I	MORE FREQUENTLY	C, D, G, H			
REAR BRAKE DRUMS/LININGS, PARKING BRAKE	I	MORE FREQUENTLY	C, D, G, H			
STEERING GEAR BOX, LINKAGE & BOOTS/ LOWER ARM BALL JOINT, UPPER ARM BALL JOINT	I	MORE FREQUENTLY	C, D, E, F, G, H, I			
DRIVE SHAFTS AND BOOTS	I	EVERY 7,500 MILES (12,000 KM) OR 6 MONTHS	C, D, E, F, H			
TIMING BELT/IDLER/TENSIONER	R	EVERY 60,000 MILES (96,000 KM) OR 48 MONTHS	B, C, D, E, F, G			
MANUAL TRANSAXLE OIL	R	EVERY 60,000 MILES (96,000 KM)	A, C, D, E, F, G, H, I, J			
AUTOMATIC TRANSAXLE FLUID	R	EVERY 30,000 MILES (48,000 KM)	A, C, E, F, G, H, I			
CLIMATE CONTROL AIR FILTER (FOR EVAPORATOR AND BLOWER UNIT)	R	MORE FREQUENTLY	C, E			

#### SEVERE DRIVING CONDITIONS

- A Repeatedly driving short distance of less than 5miles (8km) in normal temperature or less than 10miles (16km) in freezing temperature
- B Extensive engine idling or low speed driving for long distances
- C Driving on rough, dusty, muddy, unpaved, graveled or salt- spread roads
- D Driving in areas using salt or other corrosive materials or in very cold weather
- E Driving in sandy areas
- F Driving in heavy traffic area over 90°F (32°C)
- G Driving on uphill, downhill, or mountain road
- H Towing a Trailer, or using a camper, or roof rack
- I Driving as a patrol car, taxi, other commercial use or vehicle towing
- J Driving over 100 MPH (170 Km/h)
- K Frequently driving in stop-and-go conditions

## **EXPLANATION OF SCHEDULED MAINTENANCE ITEMS**

### Engine oil and filter

The engine oil and filter should be changed at the intervals specified in the maintenance schedule. If the car is being driven in severe conditions, more frequent oil and filter changes are required.

### **Drive belts**

Inspect all drive belts for evidence of cuts, cracks, excessive wear or oil saturation and replace if necessary. Drive belts should be checked periodically for proper tension and adjusted as necessary.

#### **Fuel filter**

A clogged filter can limit the speed at which the vehicle may be driven, damage the emission system and cause multiple issues such as hard starting. If an excessive amount of foreign matter accumulates in the fuel tank, the filter may require replacement more frequently. After installing a new filter, run the engine for several minutes, and check for leaks

#### at the connections. Fuel filters should be installed by trained technicians.

# Fuel lines, fuel hoses and connections

Check the fuel lines, fuel hoses and connections for leakage and damage. Have a trained technician replace any damaged or leaking parts immediately.

### **Timing belt**

Inspect all parts related to the timing belt for damage and deformation. Replace any damaged parts immediately.

### Vapor hose and fuel filler cap

The vapor hose and fuel filler cap should be inspected at those intervals specified in the maintenance schedule. Make sure that a new vapor hose or fuel filler cap is correctly replaced.

# Vacuum crankcase ventilation hoses

Inspect the surface of hoses for evidence of heat and/or mechanical damage. Hard and brittle rubber, cracking, tears, cuts, abrasions, and excessive swelling indicate deterioration. Particular attention should be paid to examine those hose surfaces nearest to high heat sources, such as the exhaust manifold.

Inspect the hose routing to assure that the hoses do not come in contact with any heat source, sharp edges or moving component which might cause heat damage or mechanical wear. Inspect all hose connections, such as clamps and couplings, to make sure they are secure, and that no leaks are present. Hoses should be replaced immediately if there is any evidence of deterioration or damage.

### Air cleaner filter

A Genuine Hyundai air cleaner filter is recommended when the filter is replaced.

### Spark plugs

Make sure to install new spark plugs of the correct heat range.

### Valve clearance

Inspect excessive valve noise and/or engine vibration and adjust if necessary. A qualified technician should perform the operation.

### **Cooling system**

Check the cooling system parts, such as radiator, coolant reservoir, hoses and connections for leakage and damage. Replace any damaged parts.

### Coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

# Manual transaxle fluid (if equipped)

Inspect the manual transaxle fluid according to the maintenance schedule.

## **\*** NOTICE

If the oil level is low, check for possible leaks before adding oil. Do not overfill.

# Automatic transaxle fluid (if equipped)

The fluid level should be in the "HOT" range of the dipstick, after the engine and transaxle are at normal operating temperature. Check the automatic transaxle fluid level with the engine running and the transaxle in neutral, with the parking brake properly applied.

### Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

### Brake fluid

Check brake fluid level in the brake fluid reservoir. The level should be between "MIN" and "MAX" marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 3 or DOT 4 specification.

# Rear disc brake / linings, parking brake

Check the rear disc brake and linings for scoring, burning, leaking fluid, broken parts, and excessive wear. Inspect the parking brake system including the parking brake pedal and cables.

### Brake pads, calipers and rotors

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

### Exhaust pipe and muffler

Visually inspect the exhaust pipes, muffler and hangers for cracks, deterioration, or damage. Start the engine and listen carefully for any exhaust gas leakage. Tighten connections or replace parts as necessary.

### Suspension mounting bolts

Check the suspension connections for looseness or damage. Retighten to the specified torque.

# Steering gear box, linkage & boots/lower arm ball joint

With the vehicle stopped and engine off, check for excessive free-play in the steering wheel.

Check the linkage for bends or damage. Check the dust boots and ball joints for deterioration, cracks, or damage. Replace any damaged parts.

#### Drive shafts and boots

Check the drive shafts, boots and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

# Air conditioning refrigerant (if equipped)

Check the air conditioning lines and connections for leakage and damage.

## **ENGINE OIL**



## Checking the engine oil level

- 1. Be sure the vehicle is on level ground.
- 2. Start the engine and allow it to reach normal operating temperature.
- 3. Turn the engine off and wait for a few minutes (about 5 minutes) for the oil to return to the oil pan.

4. Pull the dipstick out, wipe it clean, and re-insert it fully.

**WARNING -** Radiator hose Be very careful not to touch the radiator hose when checking or adding the engine oil as it may be hot enough to burn you.

5. Pull the dipstick out again and check the level. The level should be between F and L.



If it is near or at L, add enough oil to bring the level to F. **Do not overfill.** 

# Use a funnel to refill the new oil comfortably.

Use only the specified engine oil. (Refer to the section 9.)

### Changing the engine oil and filter

Have engine oil and filter changed by an authorized Hyundai dealer according to the Maintenance Schedule at the beginning of this section.



## A PROPOSITION 65 WARN-ING

Used engine oil may cause irritation or cancer of the skin if left in contact with the skin for prolonged periods of time. Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing your hands thoroughly with soap and warm water as soon as possible after handling used oil.

## **ENGINE COOLANT**

The high-pressure cooling system has a reservoir filled with year-round antifreeze coolant. The reservoir is filled at the factory.

Check the antifreeze protection and coolant level at least once a year, at the beginning of the winter season, and before traveling to a colder climate.

### Checking the coolant level

# WARNING - Removing radiator cap

 Never attempt to remove the radiator cap while the engine is operating or hot. Doing so might lead to cooling system and engine damage and could result in serious personal injury from escaping hot coolant or steam.

(Continued)

#### (Continued)

- Turn the engine off and wait until it cools down. Use extreme care when removing the radiator cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.
- Even if the engine is not operating, do not remove the radiator cap or the drain plug while the engine and radiator are hot. Hot coolant and steam may still blow out under pressure, causing serious injury.



Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between F and L marks on the side of the coolant reservoir when the engine is cool.

If the coolant level is low, add enough specified coolant to provide protection against freezing and corrosion. Bring the level to F, but do not overfill. If frequent additions are required, see an authorized Hyundai dealer for a cooling system inspection. Recommended engine coolant

- Use only soft (de-mineralized) water in the coolant mixture.
- The engine in your vehicle has aluminum engine parts and must be protected by an ethylene-glycol-based coolant to prevent corrosion and freezing.
- DO NOT USE alcohol or methanol coolant or mix them with the specified coolant.
- Do not use a solution that contains more than 60% antifreeze or less than 35% antifreeze, which would reduce the effectiveness of the solution.

For mixture percentage, refer to the following table.

Ambient	Mixture Perce	ntage (volume)
Temperature	Antifreeze	Water
5°F (-15°C)	35	65
-13°F (-25°C)	40	60
-31°F (-35°C)	50	50
-49°F (-45°C)	60	40



WARNING - Radiator cap Do not remove the radiator cap when the engine and radiator are hot. Scalding hot coolant and steam may blow out under pressure causing serious injury.

#### Changing the coolant

Have coolant changed by an authorized Hyundai dealer according to the Maintenance Schedule at the beginning of this section.

## A WARNING - Coolant

- Do not use radiator coolant or antifreeze in the washer fluid reservoir.
- Radiator coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control or damage to paint and body trim.
- Windshield Washer fluid agents contain some amounts of alcohol and can be flammable under certain circumstances. Do not allow sparks or flame to contact the washer fluid or the washer fluid reservoir. Damage to the vehicle or occupants could occur.
- Windshield washer fluid is poisonous to humans and animals. Do not drink and avoid contacting windshield washer fluid. Serious injury or death could occur.

## **BRAKES AND CLUTCH (IF EQUIPPED) FLUID**



Check the fluid level in the reservoir peri-

odically. The fluid level should be

between MAX and MIN marks on the

Before removing the reservoir cap and

adding brake/clutch fluid, clean the area

around the reservoir cap thoroughly to

prevent brake/clutch fluid contamination.

level

side of the reservoir.

If the level is low, add fluid to the MAX level. The level will fall with accumulated mileage. This is a normal condition associated with the wear of the brake linings. If the fluid level is excessively low, have the brake system checked by an authorized Hyundai dealer.

Use only the specified brake/clutch fluid. (Refer to the section 9.)

Never mix different types of fluid.

# A WARNING - Loss of brake fluid

In the event the brake system requires frequent additions of fluid, the vehicle should be inspected by an authorized Hyundai dealer.

## A WARNING - Brake fluid

When changing and adding brake/clutch fluid, handle it carefully. Do not let it come in contact with your eyes. If brake/clutch fluid should come in contact with your eyes, immediately flush them with a large quantity of fresh tap water. Have your eyes examined by a doctor as soon as possible.

## 

Do not allow brake/clutch fluid to contact the vehicle's body paint, as paint damage will result. Brake/clutch fluid, which has been exposed to open air for an extended time should never be used as its quality cannot be guaranteed. It should be thrown out. Don't put in the wrong kind of fluid. A few drops of mineral-based oil, such as engine oil, in your brake clutch system can damage brake clutch system parts.

## AUTOMATIC TRANSAXLE FLUID (IF EQUIPPED)



# Checking the automatic transaxle fluid level

The automatic transaxle fluid level should be checked regularly.

The volume of the transaxle fluid changes with temperature. Although it is best to check the level after having driven the vehicle for at least 30 minutes, the level can be checked after warming the fluid using the following procedure.

- 1. Park the vehicle on level ground and firmly apply the parking brake.
- 2. Allow the engine to idle for about 2 minutes.
- 3. Depress the brake pedal and move the shift lever slowly through all ranges then set it in P (Park) or N (Neutral).
- With the engine still idling, pull out the dipstick, wipe it clean and reinsert it fully.
- 5. Pull out the dipstick again and check the fluid level.

### **A** WARNING - Transaxle fluid

The transaxle fluid level should be checked when the engine is at normal operating temperature. This means that the engine, radiator, radiator hose and exhaust system etc., are very hot. Exercise great care not to burn yourself during this procedure.

## 

- Low fluid level causes transaxle slippage. Overfilling can cause foaming, loss of fluid and transaxle malfunction.
- The use of a non-specified fluid could result in transaxle malfunction and failure.

WARNING - Parking brake To avoid sudden movement of the vehicle, apply parking brake and depress the brake pedal before moving the shift lever.



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If the fluid has been warmed to normal operating temperature of approximately  $158 \sim 176^{\circ}F$  (70~80°C), the fluid level should be within "HOT" range.

## **\* NOTICE**

"COLD (C)" range is for reference only and should NOT be used to determine transaxle fluid level.

### **\* NOTICE**

New automatic transaxle fluid should be red. The red dye is added so the assembly plant can identify it as automatic transaxle fluid and distinguish it from engine oil or antifreeze. The red dye, which is not an indicator of fluid quality, is not permanent. As the vehicle is driven, the automatic transaxle fluid will begin to look darker. The color may eventually appear light brown. Therefore, have an authorized Hyundai dealer change the automatic transaxle fluid according to the Scheduled Maintenance at the beginning of this section.

Use only the specified automatic transaxle fluid. (Refer to the section 9.)

# Changing the automatic transaxle fluid

Have automatic transaxle fluid changed by an authorized Hyundai dealer according to the Maintenance Schedule at the beginning of this section.

## WASHER FLUID



### Checking the washer fluid level

The reservoir is translucent so that you can check the level with a quick visual inspection.

Check the fluid level in the washer fluid reservoir and add fluid if necessary. Plain water may be used if washer fluid is not available. However, use washer solvent with antifreeze characteristics in cold climates to prevent freezing.

## A WARNING - Coolant

- Do not use radiator coolant or antifreeze in the washer fluid reservoir.
- Radiator coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control or damage to paint and body trim.
- Windshield Washer fluid agents contain some amounts of alcohol and can be flammable under certain circumstances. Do not allow sparks or flame to contact the washer fluid or the washer fluid reservoir. Damage to the vehicle or occupants could occur.
- Windshield washer fluid is poisonous to humans and animals. Do not drink and avoid contacting windshield washer fluid. Serious injury or death could occur.





### Checking the parking brake

Check the stroke of the parking brake by counting the number of "clicks" heard while fully applying it from the released position. Also, the parking brake alone should securely hold the vehicle on a fairly steep grade. If the stroke is more or less than specified, have the parking brake adjusted by an authorized Hyundai dealer.

Stroke : 7 "clicks" at a force of 44 lbs (20 kg, 196 N).

## **AIR CLEANER**



Filter replacement

It must be replaced when necessary, and should not be cleaned and reused.



1. Loosen the air cleaner cover attaching clips and open the cover.



2. Replace the air cleaner filter.

3. Lock the cover with the cover attaching clips.

Replace the filter according to the Scheduled Maintenance Section.

If the vehicle is operated in extremely dusty or sandy areas, replace the element more often than the usual recommended intervals. (Refer to "Maintenance under severe usage conditions" in this section.)

## 

- Do not drive with the air cleaner removed; this will result in excessive engine wear.
- When removing the air cleaner filter, be careful that dust or dirt does not enter the air intake, or damage may result.
- Use a Hyundai genuine part. Use of nongenuine part could damage the air flow sensor.

## CLIMATE CONTROL AIR FILTER



#### **Filter inspection**

The climate control air filter should be replaced every 10,000 miles (15,000 km). If the vehicle is operated in the severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you try to replace the climate control air filter by owner maintenance, replace it performing the following procedure, and be careful to avoid damaging other components.



## Filter replacement

1. Open the glove box and remove the support rod.



2. With the glove box open, remove the stoppers on both sides to allow the glove box hang freely on the hinges.

## Maintenance



3. Remove the climate control air filter case pulling out the cover.



- 4. Replace the climate control air filter.
- 5. Reassemble in the reverse order of disassembly.

## **\* NOTICE**

When replacing the climate control air filter install it according to the "AIR FLOW $\psi$ " identification marks. Otherwise, the system may produce noise and the effectiveness of the filter may be reduced.

## WIPER BLADES



1JBA5122

### Blade inspection \* NOTICE

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean. Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers. Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the window and the blades with a good cleaner or mild detergent, and rinse thoroughly with clean water.

## 

To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.

#### **Blade replacement**

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

## 

To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

## 

The use of a non-specified wiper blade could result in wiper malfunction and failure.



Front windshield wiper blade

1. Raise the wiper arm and turn the wiper blade assembly to expose the plastic locking clip.

## 

Do not allow the wiper arm to fall against the windshield, since it may chip or crack the windshield.



- 2. Compress the clip and slide the blade assembly downward.
- 3. Lift it off the arm.
- 4. Install the blade assembly in the reverse order of removal.

## BATTERY



### For best battery service

- · Keep the battery securely mounted.
- Keep the battery top clean and dry.
- · Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- · Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- · If the vehicle is not going to be used for an extended time, disconnect the battery cables.





**WARNING** - Battery





Hydrogen, a highly combustible gas, is always present in battery cells and may explode if ignited.

dangers

Keep batteries out of the reach of children because batteries contain highly corrosive SULFURIC ACID. Do not allow battery acid to contact your skin, eyes, clothing or paint finish.

(Continued)

### (Continued)



If any electrolyte gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention.

If electrolyte gets on your skin, thoroughly wash the contacted area. If you feel a pain or a burning sensation, get medical attention immediately.



Wear eye protection when charging or working near a battery. Always provide ventilation when working in an enclosed space.

(Continued)

#### (Continued)

- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to leak, resulting in personal injury. Lift with a battery carrier or with your hands on opposite corners.
- Never attempt to recharge the battery when the battery cables are connected.
- The electrical ignition system works with high voltage. Never touch these components with the engine running or the ignition switched on.

Failure to follow the above warnings can result in serious bodily injury or death.

## A PROPOSITION 65 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. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handling.

### **Battery recharging**

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged in a short time (because, for example, the headlights or interior lights were left on while the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- If the battery gradually discharges because of high electric load while the vehicle is being used, recharge it at 20-30A for two hours.

#### **Reset items**

Items should be reset after the battery has been discharged or the battery has been disconnected.

- Sunroof (See Chapter 4)
- Trip computer (See Chapter 4)
- Climate control system (See Chapter 4)
- Clock (See Chapter 4)
- Audio (See Chapter 4)
- Auto up/down window (See chapter 4)

# WARNING - Recharging battery

When recharging the battery, observe the following precautions:

- The battery must be removed from the vehicle and placed in an area with good ventilation.
- Do not allow cigarettes, sparks, or flame near the battery.
- Watch the battery during charging, and stop or reduce the charging rate if the battery cells begin gassing (boiling) violently or if the temperature of the electrolyte of any cell exceeds 120°F (49°C).
- Wear eye protection when checking the battery during charging. (Continued)

#### (Continued)

- Disconnect the battery charger in the following order.
- 1. Turn off the battery charger main switch.
- 2. Unhook the negative clamp from the negative battery terminal.
- 3. Unhook the positive clamp from the positive battery terminal.

## **A** WARNING

- Before performing maintenance or recharging the battery, turn off all accessories and stop the engine.
- The negative battery cable must be removed first and installed last when the battery is disconnected.

## **TIRES AND WHEELS**

### Tire care

For proper maintenance, safety, and maximum fuel economy, you must always maintain recommended tire inflation pressures and stay within the load limits and weight distribution recommended for your vehicle.

# Recommended cold tire inflation pressures

All tire pressures (including the spare) should be checked when the tires are cold. "Cold Tires" means the vehicle has not been driven for at least three hours or driven less than one mile (1.6 km).

Recommended pressures must be maintained for the best ride, top vehicle handling, and minimum tire wear.

## **A** WARNING

- Underinflated or overinflated tires can cause poor handling, loss of vehicle control, and sudden tire failure leading to accidents, injuries, and even death. Always check tires are properly inflated before driving.
- Driving on tires with no or insufficient tread is dangerous. Worn-out tires can result in loss of vehicle control, collisions, and injury and even death. Worn-out tires should be replaced as soon as possible and should never be used for driving. Always check tire tread before driving your car.



All specifications (sizes and pressures) can be found on a label attached to the vehicle.

## WARNING - Tire underinflation

Severe underinflation (10 psi (70 kPa) or more) can lead to severe heat build-up, causing blowouts, tread separation and other tire failures that can result in the loss of vehicle control leading to severe injury or death. This risk is much higher on hot days and when driving for protracted periods at high speeds.

## 

- Underinflation also results in excessive wear, poor handling and reduced fuel economy. Wheel deformation also is possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, have it checked by an authorized Hyundai dealer.
- Overinflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.

## 

- Warm tires normally exceed recommended cold tire pressures by 4 to 6 psi (28 to 41 kPa). Do not release air from warm tires to adjust the pressure or the tires will be underinflated.
- Be sure to reinstall the tire inflation valve caps. Without the valve cap, dirt or moisture could get into the valve core and cause air leakage. If a valve cap is missing, install a new one as soon as possible.

WARNING - Tire inflation Overinflation or underinflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure. This could result in loss of vehicle control and potential injury.

## **CAUTION - Tire pressure** *Always observe the following:*

- Check tire pressure when the tires are cold. (After vehicle has been parked for at least three hours or hasn't been driven more than one mile (1.6 km) since startup.)
- Check the pressure of your spare tire each time you check the pressure of other tires.
- Never overload your vehicle. Be careful not to overload a vehicle luggage rack if your vehicle is equipped with one.
- Worn, old tires can cause accidents. If your tread is badly worn, or if your tires have been damaged, replace them.
#### Checking tire inflation pressure

Check your tires once a month or more.

Also, check the tire pressure of the spare tire.

#### How to check

Use a good quality gage to check tire pressure. You can not tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they're underinflated.

Check the tire's inflation pressure when the tires are cold. - "Cold" means your vehicle has been sitting for at least three hours or driven no more than 1 mile (1.6 km). Remove the valve cap from the tire valve stem. Press the tire gage firmly onto the valve to get a pressure measurement. If the cold tire inflation pressure matches the recommended pressure on the tire and loading information label, no further adjustment is necessary. If the pressure is low, add air until you reach the recommended amount.

If you overfill the tire, release air by pushing on the metal stem in the center of the tire valve. Recheck the tire pressure with the tire gage. Be sure to put the valve caps back on the valve stems. They help prevent leaks by keeping out dirt and moisture.

## **A** WARNING

- Inspect your tires frequently for proper inflation as well as wear and damage. Always use a tire pressure gauge.
- Tires with too much or too little pressure wear unevenly causing poor handling, loss of vehicle control, and sudden tire failure leading to accidents, injuries, and even death. The recommended cold tire pressure for your vehicle can be found in this manual and on the tire label located on the driver's side of the center pillar.
- Worn tires can cause accidents. Replace tires that are worn, show uneven wear, or are damaged.
- Remember to check the pressure of your spare tire. Hyundai recommends that you check the spare every time you check the pressure of the other tires on your vehicle.

## **Tire rotation**

To equalize tread wear, it is recommended that the tires be rotated every 7,500 miles (12,000 km) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, outof-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of tire. Replace the tire if you find either of these conditions. Replace the tire if fabric or cord is visible. After rotation, be sure to bring the front and rear tire pressures to specification and check lug nut tightness.

Refer to Section 9, "Specifications".

With a full-size spare tire (if equipped)





Without a spare tire



S2BLA790A

Directional tires (if equipped)



Disc brake pads should be inspected for wear whenever tires are rotated.

## **\* NOTICE**

Rotate radial tires that have an asymmetric tread pattern only from front to rear and not from right to left.

## A WARNING

- Do not use the compact spare tire for tire rotation.
- Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics that could result in death, severe injury, or property damage.

## Wheel alignment and tire balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

In most cases, you will not need to have your wheels aligned again. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset.

If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

## 

Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.



## **Tire replacement**

If the tire is worn evenly, a tread wear indicator will appear as a solid band across the tread. This shows there is less than 1/16 inch (1.6 mm) of tread left on the tire. Replace the tire when this happens.

Do not wait for the band to appear across the entire tread before replacing the tire.

# A WARNING - Replacing tires

To reduce the chance or serious or fatal injuries from an accident caused by tire failure or loss of vehicle control:

- Replace tires that are worn, show uneven wear, or are damaged. Worn tires can cause loss of braking effectiveness, steering control, and traction.
- Do not drive your vehicle with too little or too much pressure in your tires. This can lead to uneven wear and tire failure.
- When replacing tires, never mix radial and bias-ply tires on the same car. You must replace all tires (including the spare) if moving from radial to bias-ply tires.

(Continued)

## (Continued)

- Using tires and wheel other than the recommended sizes could cause unusual handling characteristics and poor vehicle control, resulting in a serious accident.
- Wheels that do not meet Hyundai's specifications may fit poorly and result in damage to the vehicle or unusual handling and poor vehicle control.

#### Compact spare tire replacement

A compact spare tire has a shorter tread life than a regular size tire. Replace it when you can see the tread wear indicator bars on the tire. The replacement compact spare tire should be the same size and design tire as the one provided with your new vehicle and should be mounted on the same compact spare tire wheel. The compact spare tire is not designed to be mounted on a regular size wheel, and the compact spare tire wheel is not designed for mounting a regular size tire.

#### Wheel replacement

When replacing the metal wheels for any reason, make sure the new wheels are equivalent to the original factory units in diameter, rim width and offset.

## **A** WARNING

A wheel that is not the correct size may adversely affect wheel and bearing life, braking and stopping abilities, handling characteristics, ground clearance, body-to-tire clearance, snow chain clearance, speedometer calibration, headlight aim and bumper height.

## **Tire traction**

Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. To reduce the possibility of losing control, slow down whenever there is rain, snow or ice on the road.

### **Tire maintenance**

In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have your dealer check the wheel alignment.

When you have new tires installed, make sure they are balanced. This will increase vehicle ride comfort and tire life. Additionally, a tire should always be rebalanced if it is removed from the wheel.



## Tire sidewall labeling

This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.

1. Manufacturer or brand name Manufacturer or Brand name is shown.

#### 2. Tire size designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your car. The following explains what the letters and numbers in the tire size designation mean.

Example tire size designation:

(These numbers are provided as an example only; your tire size designator could vary depending on your vehicle.)

## P205/55R16 89H

P - Applicable vehicle type (tires marked with the prefix "P" are intended for use on passenger cars or light trucks; however, not all tires have this marking).

205 - Tire width in millimeters.

- 55 Aspect ratio. The tire's section height as a percentage of its width.
- R Tire construction code (Radial).
- 16 Rim diameter in inches.

- 89 Load Index, a numerical code associated with the maximum load the tire can carry.
- H Speed Rating Symbol. See the speed rating chart in this section for additional information.

#### Wheel size designation

Wheels are also marked with important information that you need if you ever have to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation: 6.0JX16

6.0 - Rim width in inches.

J - Rim contour designation.

16 - Rim diameter in inches.

#### **Tire speed ratings**

The chart below lists many of the different speed ratings currently being used for passenger cars. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	112 mph (180 km/h)
Т	118 mph (190 km/h)
Н	130 mph (210 km/h)
V	149 mph (240 km/h)
Z	Above 149 mph (240 km/h)

#### 3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over 6 years, based on the manufacturing date, tire strength and performance, decline with age naturally (even unused spare tires). Therefore, the tires (including the spare tire) should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

## DOT : XXXX XXXX OOOO

The front part of the DOT means a plant code number, tire size and tread pattern and the last four numbers indicate week and year manufactured.

#### For example:

DOT XXXX XXXX 1606 represents that the tire was produced in the 16th week of 2006.

## **A** WARNING - Tire age

A tire more than 6 years old may sustain separation of cord layers inside the tire. Tire failure to separation of cord, can cause accidents resulting in severe injuries or death.

Make sure to check the manufacturing date of the tire and replace it within 6 years of that date.

#### 4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric are in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

## 5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure. Refer to the Tire and Loading Information label for recommended inflation pressure.

#### 6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

## 7. Uniform tire quality grading Tread wear

The tread wear 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-ahalf 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, performance may differ from the norm because of variations in driving habits, service practices and differences in road characteristics and climate.

These grades are molded on the side-walls of passenger vehicle tires. The tires available as standard or optional equipment on your vehicles may vary with respect to grade.

#### Traction - AA, A, B & C

The traction grades, from highest to lowest, are AA, A, B and C. The grades represent the tires 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

The temperature grades are A (the highest), B and C. The grades represent 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. Grades A and B represent higher levels of performance on the laboratory test wheel than the minimum required by the law.

## WARNING - Tire temperature

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 build-up and possible sudden tire failure. This can cause loss of vehicle control and serious injury or death.

## Tire terminology and definitions

**Air Pressure**: The amount of air inside the tire pressing outward on the tire. Air pressure is expressed in pounds per square inch (psi) or kilopascal (kPa).

Accessory Weight: This means the combined weight of optional accessories. Some examples of optional accessories are, automatic transmission, power seats, and air conditioning.

**Aspect Ratio**: The relationship of a tire's height to its width.

**Belt:** A rubber coated layer of cords that is located between the plies and the tread. Cords may be made from steel or other reinforcing materials.

**Bead**: The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

**Bias Ply Tire**: A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

**Cold Tire Pressure**: The amount of air pressure in a tire, measured in pounds per square inch (psi) or kilopascals (kPa) before a tire has built up heat from driving.

**Curb Weight**: This means the weight of a motor vehicle with standard and optional equipment including the maximum capacity of fuel, oil and coolant, but without passengers and cargo.

**DOT Markings**: A code molded into the sidewall of a tire signifying that the tire is in compliance with the U.S. Department of Transportation motor vehicle safety standards. The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator which can also identify the tire manufacturer, production plant, brand and date of production.

**GVWR**: Gross Vehicle Weight Rating **GAWR FRT**: Gross Axle Weight Rating for the Front Axle.

**GAWR RR**: Gross Axle Weight Rating for the Rear Axle.

**Intended Outboard Sidewall**: The side of an asymmetrical tire, that must always face outward when mounted on a vehicle.

**Kilopascal (kPa)**: The metric unit for air pressure.

**Load Index**: An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

**Maximum Inflation Pressure**: The maximum air pressure to which a cold tire may be inflated. The maximum air pressure is molded onto the sidewall.

**Maximum Load Rating**: The load rating for a tire at the maximum permissible inflation pressure for that tire.

**Maximum Loaded Vehicle Weight**: The sum of curb weight; accessory weight; vehicle capacity weight; and production options weight.

**Normal Occupant Weight**: The number of occupants a vehicle is designed to seat multiplied by 150 pounds (68 kg).

**Occupant Distribution**: Designated seating positions.

**Outward Facing Sidewall:** The side of a asymmetrical tire that has a particular side that faces outward when mounted on a vehicle. The outward facing sidewall bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same moldings on the inner facing sidewall.

**Passenger (P-Metric) Tire**: A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

**Recommended Inflation Pressure**: Vehicle manufacturer's recommended tire inflation pressure and shown on the tire placard.

**Radial Ply Tire**: A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

**Rim**: A metal support for a tire and upon which the tire beads are seated.

**Sidewall**: The portion of a tire between the tread and the bead.

**Speed Rating**: An alphanumeric code assigned to a tire indicating the maximum speed at which a tire can operate.

**Traction**: The friction between the tire and the road surface. The amount of grip provided.

**Tread**: The portion of a tire that comes into contact with the road.

**Treadwear Indicators**: Narrow bands, sometimes called "wear bars," that show across the tread of a tire when only 2/32 inch of tread remains.

**UTQGS**: Uniform Tire Quality Grading Standards, a tire information system that provides consumers with ratings for a tire's traction, temperature and treadwear. Ratings are determined by tire manufacturers using government testing procedures. The ratings are molded into the sidewall of the tire.

Vehicle Capacity Weight: The number of designated seating positions multiplied by 150 lbs. (68 kg) plus the rated cargo and luggage load.

Vehicle Maximum Load on the Tire: Load on an individual tire due to curb and accessory weight plus maximum occupant and cargo weight.

Vehicle Normal Load on the Tire: Load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and driving by 2.

Vehicle Placard: A label permanently attached to a vehicle showing the original equipment tire size and recommended inflation pressure.

## All season tires

Hyundai specifies all season tires on some models to provide good performance for use all year round, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M+S (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

## Summer tires

Hyundai specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M+S (Mud and Snow) on the tire side wall. if you plan to operate your vehicle in snowy or icy conditions. Hyundai recommends the use of snow tires or all season tires on all four wheels.

## Snow tires

If you equip your car with snow tires, they should be the same size and have the same load capacity as the original tires. Snow tires should be installed on all four wheels; otherwise, poor handling may result.

Snow tires should carry 4 psi (28 kPa) more air pressure than the pressure recommended for the standard tires on the tire label on the driver's side of the center pillar, or up to the maximum pressure shown on the tire sidewall, whichever is less.

Do not drive faster than 75 mph (120 km/h) when your car is equipped with snow tires.

## **Tire chains**

Tire chains, if necessary, should be installed on the drive wheels (front wheel).

Be sure that the chains are installed in accordance with the manufacturer's instructions.

To minimize tire and chain wear, do not continue to use tire chains when they are no longer needed.

## A WARNING - Snow or ice

- When driving on roads covered with snow or ice, drive at less than 20 mph (30 km/h).
- Use the SAE "S" class or wire chains.
- If you have noise caused by chains contacting the body, retighten the chain to avoid contact with the vehicle body.
- To prevent body damage, retighten the chains after driving 0.3~0.6 miles.
- Do not use tire chains on vehicles equipped with aluminum wheels. In unavoidable circumstance, use a wire type chain.
- Use wire chains less than 15mm to prevent damage to the chain's connection.

## 

- If you hear noise caused by chains contacting the body, retighten the chain to avoid contact with the vehicle body.
- To prevent body damage, retighten the chains after driving 0.3 ~ 0.6 miles (0.5 ~ 1.0 km).

## FUSES

Blade type



Normal



Cartridge type





Normal

Blown

Fusible link



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 2 fuse panels, one located in the driver's side panel bolster, the other in the engine compartment near the battery.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse has blown, the element inside the fuse will be melted.

If the electrical system does not work, first check the driver's side fuse panel.

Always replace a blown fuse with one of the same rating.

If the replacement fuse blows, this indicates an electrical problem. Avoid using the system involved and immediately consult an authorized Hyundai dealer.

Three kinds of fuses are used: blade type for lower amperage rating, cartridge type, and fusible link for higher amperage ratings.

## WARNING - Fuse replacement

- Never replace a fuse with anything but another fuse of the same rating.
- A higher capacity fuse could cause damage and possibly a fire.
- Never install a wire instead of the proper fuse - even as a temporary repair. It may cause extensive wiring damage and a possible fire.

## 

Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.



Inner panel fuse replacement

- 1. Turn the ignition switch and all other switches off.
- 2. Open the fuse panel cover.



- 3. Pull the suspected fuse straight out. Use the removal tool provided on the main fuse box in the engine compartment.
- 4. Check the removed fuse; replace it if it is blown.
- 5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips.

If it fits loosely, consult an authorized Hyundai dealer.

If you do not have a spare, use a fuse of the same rating from a circuit you may not need for operating the vehicle, such as the cigar lighter fuse. If the headlights or other electrical components do not work and the fuses are OK, check the fuse block in the engine compartment. If a fuse is blown, it must be replaced.



## **\* NOTICE**

- If the memory fuse is pulled up from the fuse panel, the warning chime, audio, clock and interior lamps, etc., will not operate. Some items must be reset after replacement. Refer to "Battery" in this section.
- Even though the memory fuse is pulled up, the battery can still be discharged by operation of the headlights or other electrical devices.



Your vehicle is equipped with the memory fuse to prevent battery discharge if your vehicle is parked without being operated for prolonged periods. Use the following procedures before parking the vehicle for prolonged periods.

- 1. Turn off the engine.
- 2. Turn off the headlights and tail lights.
- 3. Open the driver's side panel cover and pull up the memory fuse.

# Engine compartment panel fuse replacement

- 1. Turn the ignition switch and all other switches off.
- 2. Remove the fuse box cover by pressing the tap and pulling up.
- 3. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the main fuse box in the engine compartment.
- 4. Push in a new fuse of the same rating, and make sure it fits tightly in the clips. If it fits loosely, consult an authorized Hyundai dealer.

## 

After checking the fuse box in the engine compartment, securely install the fuse box cover. If not, electrical failures may occur from water leaking in.



## Main fuse

If the main fuse is blown, it must be removed as follows:

- 1. Disconnect the negative battery cable.
- 2. Remove the nuts shown in the picture above.
- 3. Replace the fuse with a new one of the same rating.
- 4. Reinstall in the reverse order of removal.

## **\* NOTICE**

If the main fuse is blown, consult an Authorized Hyundai Dealer.

## Fuse/Relay panel description

Inside the fuse/relay box covers, you can find the fuse/relay label describing fuse/relay name and capacity.

#### Driver's side panel



**Engine compartment** 



OHD076031L/OHD076032

## **\* NOTICE**

Not all fuse panel descriptions in this manual may be applicable to your vehicle. It is accurate at the time of printing. When you inspect the fuse box on your vehicle, refer to the fuse box label.

## Driver's side fuse panel

Description	Fuse rating	Protected component
START	10A	Ignition lock switch, Antitheft alarm, Transaxle range switch
A/CON SW	10A	A/C control module
HTD MIRR	10A	Outside heated mirror motor
SEAT HTR	15A	Seat warmer switch
A/CON	10A	Blower relay, A/C control module, Sunroof control module
HEAD LAMP	10A	Head lamp relay
FR WIPER	25A	Front wiper relay
RR WIPER	15A	(Spare)
DRL	15A	Daytime running lamp unit
WCS	10A	Occupant classification sensor
P/WDW DR	25A	Power window main switch, Rear power window switch(LH)
CLOCK	10A	Digital clock, Audio
C/LIGHTER	15A	Power outlet
DR LOCK	20A	Sunroof control module, Door unlock/lock relay
DEICER	15A	-
STOP	15A	Stop lamp switch
ROOM LP	15A	Trunk room lamp, Dome lamp, Map lamp, Digital clock, Home link
AUDIO	15A	Audio
T/LID	15A	Trunk lid relay
AMP	25A	Amplifier
SAFETY P/WDW	25A	Safety power window module
P/WDW ASS	25A	Front & rear power window switch(RH), Power window main switch
P/OUTLET	15A	Power outlet
T/SIG	10A	Hazard switch
A/BAG IND	10A	Airbag indicator(instrument cluster)

Description	Fuse rating	Protected component
CLUSTER	10A	Instrument cluster, EPS module, ESC switch
A/BAG	15A	SRS control module
SPARE	15A	(Spare)
SPARE	15A	(Spare)
TAIL RH	10A	Head lamp(RH), Glove box lamp, Rear combination lamp(RH), License lamp
TAIL LH	10A	Head lamp(LH), Power window main switch, Rear combination lamp(LH), License lamp

## **Engine compartment**

Description		Fuse rating	Protected component
	ALTERNATOR	125A	Generator
	EPS	80A	EPS control module
	ABS.2	20A	ESC control module, ABS control module, Multi purpose check connector
	ABS.1	40A	ESC control module, ABS control module, Multi purpose check connector
	B+.1	50A	Instrument panel junction box
Fusible link	RR HTD	40A	Instrument panel junction box
	BLOWER	40A	Blower relay
	C/FAN	40A	Condenser fan #1, 2 relay
	B+.2	50A	Instrument panel junction box
	IGN.2	40A	Ignition switch, Start relay
	IGN.1	30A	Ignition switch
	ECU	30A	Main relay, ECM
	SPARE.1	20A	(Spare)
	FR FOG	15A	Front fog lamp relay
	A/CON	10A	A/C relay
Fuse	HAZARD	15A	Hazard switch, Hazard relay
	F/PUMP	15A	Fuel pump relay
	INJ	15A	A/C relay, Fuel pump relay, Injector #1,2,3,4, ECM, Idle speed actuator etc.
	SNSR.2	10A	Pulse generator 'A', 'B', Stop lamp switch, Vehicle speed sensor etc.
	HORN	15A	Horn relay

Des	cription	Fuse rating	Protected component
	ABS	10A	ESC control module, ABS control module, Multi purpose check connector
	ECU.2	10A	ECM
	B/UP	10A	Back up lamp switch, Transaxle range switch, Cruise control module
	H/LP LO RH	10A	Head lamp(RH)
Fuse	H/LP LO LH	10A	Head lamp(LH)
	H/LP HI	20A	Head lamp Hi relay
	SNSR.1	10A	Oxygen sensor, ECM, Mass air folw sensor etc.
	SPARE	10A	(Spare)
	SPARE	15A	(Spare)
	SPARE	20A	(Spare)

## LIGHT BULBS

# WARNING - Working on the lights

Prior to working on the light, firmly apply the parking brake, ensure that the ignition switch is turned to the "LOCK" position and turn off the lights to avoid sudden movement of the vehicle and burning your fingers or receiving an electric shock.

Use only the bulbs of the specified wattage.

## 

Be sure to replace the burned-out bulb with one of the same wattage rating. Otherwise, it may cause damage to the fuse or electric wiring system.

## 

If you don't have necessary tools, the correct bulbs and the expertise, consult an authorized Hyundai dealer. In many cases, it is difficult to replace vehicle light bulbs because other parts of the vehicle must be removed before you can get to the bulb. This is especially true if you have to remove the headlight assembly to get to the bulb(s). Removing/installing the headlight assembly can result in damage to the vehicle.

## **\* NOTICE**

After heavy, driving rain or washing, headlight and taillight lenses could appear frosty. This condition is caused by the temperature difference between the lamp inside and outside. This is similar to the condensation on your windows inside your vehicle during the rain and doesn't indicate a problem with your vehicle. If the water leaks into the lamp bulb circuitry, have the vehicle checked by an authorized Hyundai dealer.



## Headlight, position light, turn signal light, front fog light bulb replacement

- (1) Headlight (High)
- (2) Headlight (Low)
- (3) Position light
- (4) Front turn signal light
- (5) Side mark light
- (6) Front fog light (if equipped)



#### (Continued)

- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.
- Wear eye protection when changing a bulb. Allow the bulb to cool down before handling it.



## A WARNING - Halogen bulbs

- Halogen bulbs contain pressurized gas that will produce flying pieces of glass if broken.
- Always handle them carefully, and avoid scratches and abrasions. If the bulbs are lit, avoid contact with liquids. Never touch the glass with bare hands. Residual oil may cause the bulb to overheat and burst when lit. A bulb should be operated only when installed in a headlight.

(Continued)



- 1. Open the hood.
- 2. Remove the headlight.
- 3. Remove the headlight bulb cover by turning it counterclockwise.
- 4. Disconnect the headlight bulb assembly by turning it counterclockwise.
- 5. Install a new headlight bulb assembly.

## Maintenance

- 6. Install the headlight bulb cover by turning it clockwise.
- 7. Install the headlight.

*Turn signal light/position light, side mark light, fog light bulb (if equipped)* If the light bulb is not operating, have the vehicle checked by an authorized Hyundai dealer.



# Rear combination light bulb replacement

- (1) Back-up light
- (2) Rear turn signal light
- (3) Stop and tail light
- (4) Side mark light



- 1. Open the trunk lid
- 2. Remove the service cover by pulling out the service cover.



- 3. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
- 4. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
- 5. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
- 6. Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly. Push the socket into the assembly and turn the socket clockwise.
- 7. Install the service cover by putting it into the service hole.



# High mounted stop light bulb replacement

- 1. Open the trunk lid.
- 2. Remove the socket by turning it counterclockwise.
- 3. Replace the bulb from the socket.
- 4. Install the socket by turning it clockwise.



### License plate light bulb replacement

- 1. Loosen the lens retaining screws with a cross-tip screwdriver.
- 2. Remove the lens.
- 3. Remove the bulb by pulling it straight out.
- 4. Install a new bulb.
- 5. Reinstall the lens securely with the lens retaining screws.

## Maintenance



## Interior light bulb replacement

- 1. Using a flat-blade screwdriver, gently pry the lens from the interior light housing.
- 2. Remove the bulb by pulling it straight out.

## **A** WARNING

Prior to working on the Interior Lights, ensure that the "OFF" button is depressed to avoid burning your fingers or receiving an electric shock.

- 3. Install a new bulb in the socket.
- 4. Align the lens tabs with the interior light housing notches and snap the lens into place.

## 

Use care not to dirty or damage lens, lens tab, and plastic housings.

## **APPEARANCE CARE**

#### Exterior care

#### Exterior general caution

It is very important to follow the label directions when using any chemical cleaner or polish. Read all warning and caution statements that appear on the label.

#### Finish maintenance

#### Washing

To help protect your vehicle's finish from rust and deterioration, wash it thoroughly and frequently at least once a month with lukewarm or cold water.

If you use your vehicle for off-road driving, you should wash it after each offroad trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean. Insects, tar, tree sap, bird droppings, industrial pollution and similar deposits can damage your vehicle's finish if not removed immediately.

Even prompt washing with plain water may not completely remove all these deposits. A mild soap, safe for use on painted surfaces, may be used.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

## 

Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.

## A WARNING - Wet brakes

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

## 

- Water washing in the engine compartment may cause the failure of electrical circuits located in the engine compartment.
- Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.

#### Waxing

Wax the vehicle when water will no longer bead on the paint.

Always wash and dry the vehicle before waxing. Use a good quality liquid or paste wax, and follow the manufacturer's instructions. Wax all metal trim to protect it and to maintain its luster.

Removing oil, tar, and similar materials with a spot remover will usually strip the wax from the finish. Be sure to re-wax these areas even if the rest of the vehicle does not yet need waxing.

## 

- Wiping dust or dirt off the body with a dry cloth will scratch the finish.
- Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

#### Finish damage repair

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

## **\*** NOTICE

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

#### Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright-metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

#### Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.

## A WARNING

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water. If braking performance is impaired, dry the brakes by applying them lightly while maintaining a slow forward speed.

#### Aluminum wheel maintenance

The aluminum wheels are coated with a clear protective finish.

- Do not use any abrasive cleaner, polishing compound, solvent, or wire brushes on aluminum wheels. They may scratch or damage the finish.
- Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, be sure to clean the wheels after driving on salted roads. This helps prevent corrosion.
- Avoid washing the wheels with highspeed car wash brushes.
- Do not use any acid detergent. It may damage and corrode the aluminum wheels coated with a clear protective finish.

## **Corrosion protection**

## Protecting your vehicle from corrosion

By using the most advanced design and construction practices to combat corrosion, we produces cars of the highest quality. However, this is only part of the job. To achieve the long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

#### Common causes of corrosion

The most common causes of corrosion on your car are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the car.
- Removal of paint or protective coatings by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

#### High-corrosion areas

If you live in an area where your car is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

#### Moisture breeds corrosion

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the car surfaces by moisture that is slow to evaporate.

Mud is particularly corrosive because it is slow to dry and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain the moisture and promote corrosion.

High temperatures can also accelerate corrosion of parts that are not properly ventilated so the moisture can be dispersed. For all these reasons, it is particularly important to keep your car clean and free of mud or accumulations of other materials. This applies not only to the visible surfaces but particularly to the underside of the car.

#### To help prevent corrosion

You can help prevent corrosion from getting started by observing the following:

#### Keep your car clean

The best way to prevent corrosion is to keep your car clean and free of corrosive materials. Attention to the underside of the car is particularly important.

- If you live in a high-corrosion area where road salts are used, near the ocean, areas with industrial pollution, acid rain, etc.—, you should take extra care to prevent corrosion. In winter, hose off the underside of your car at least once a month and be sure to clean the underside thoroughly when winter is over.
- When cleaning underneath the car, give particular attention to the components under the fenders and other areas that are hidden from view. Do a thorough job; just dampening the accumulated mud rather than washing it away will accelerate corrosion rather than prevent it. Water under high pressure and steam are particularly effective in removing accumulated mud and corrosive materials.
- When cleaning lower door panels, rocker panels and frame members, be sure that drain holes are kept open so that moisture can escape and not be trapped inside to accelerate corrosion.

### Keep your garage dry

Don't park your car in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your car in the garage or drive it into the garage when it is still wet or covered with snow, ice or mud. Even a heated garage can contribute to corrosion unless it is well ventilated so moisture is dispersed.

#### Keep paint and trim in good condition

Scratches or chips in the finish should be covered with "touch-up" paint as soon as possible to reduce the possibility of corrosion. If bare metal is showing through, the attention of a qualified body and paint shop is recommended.

Bird droppings : Bird droppings are highly corrosive and may damage painted surfaces in just a few hours. Always remove bird droppings as soon as possible.

#### Don't neglect the interior

Moisture can collect under the floor mats and carpeting to cause corrosion. Check under the mats periodically to be sure the carpeting is dry. Use particular care if you carry fertilizers, cleaning materials or chemicals in the car.

These should be carried only in proper containers and any spills or leaks should be cleaned up, flushed with clean water and thoroughly dried.

### Interior care

#### Interior general precautions

Prevent caustic solutions such as perfume and cosmetic oil from contacting the dashboard because they may cause damage or discoloration. If they do contact the dashboard, wipe them off immediately. See the instructions that follow for the proper way to clean vinyl.

## 

Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.

# Cleaning the upholstery and interior trim

Vinyl

Remove dust and loose dirt from vinyl with a whisk broom or vacuum cleaner. Clean vinyl surfaces with a vinyl cleaner.

#### Fabric

Remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets. Remove fresh spots immediately with a fabric spot cleaner. If fresh spots do not receive immediate attention, the fabric can be stained and its color can be affected. Also, its fire-resistant properties can be reduced if the material is not properly maintained.

## 

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.

#### Cleaning the lap/shoulder belt webbing

Clean the belt webbing with any mild soap solution recommended for cleaning upholstery or carpet. Follow the instructions provided with the soap. Do not bleach or re-dye the webbing because this may weaken it.

### Cleaning the interior window glass

If the interior glass surfaces of the vehicle become fogged (that is, covered with an oily, greasy or waxy film), they should be cleaned with glass cleaner. Follow the directions on the glass cleaner container.

## 

Do not scrape or scratch the inside of the rear window. This may result in damage to the rear window defroster grid.

## **EMISSION CONTROL SYSTEM**

The emission control system of your vehicle is covered by a written limited warranty. Please see the warranty information contained in the Owner's Handbook & Warranty Information booklet in your vehicle.

Your vehicle is equipped with an emission control system to meet all emission regulations.

There are three emission control systems which are as follows.

- (1) Crankcase emission control system
- (2) Evaporative emission control system
- (3) Exhaust emission control system

In order to assure the proper function of the emission control systems, it is recommended that you have your car inspected and maintained by an authorized Hyundai dealer in accordance with the maintenance schedule in this manual. Caution for the Inspection and Maintenance Test (With Electronic Stability Control (ESC) system)

- To prevent the vehicle from misfiring during dynamometer testing, turn the Electronic Stability Control (ESC) system off by pressing the ESC switch.
- After dynamometer testing is completed, turn the ESC system back on by pressing the ESC switch again.

# 1. Crankcase emission control system

The positive crankcase ventilation system is employed to prevent air pollution caused by blow-by gases being emitted from the crankcase. This system supplies fresh filtered air to the crankcase through the air intake hose. Inside the crankcase, the fresh air mixes with blow-by gases, which then pass through the PCV valve into the induction system.

### 2. Evaporative emission control (including ORVR: Onboard Refueling Vapor Recovery) System

The Evaporative Emission Control System is designed to prevent fuel vapors from escaping into the atmosphere.

(The ORVR system is designed to allow the vapors from the fuel tank to be loaded into a canister while refueling at the gas station, preventing the escape of fuel vapors into the atmosphere.)

## Canister

Fuel vapors generated inside the fuel tank are absorbed and stored in the onboard canister. When the engine is running, the fuel vapors absorbed in the canister are drawn into the surge tank through the purge control solenoid valve.

## Purge Control Solenoid Valve (PCSV)

The purge control solenoid valve is controlled by the Engine Control Module (ECM); when the engine coolant temperature is low during idling, the PCSV closes so that evaporated fuel is not taken into the engine. After the engine warmsup during ordinary driving, the PCSV opens to introduce evaporated fuel to the engine.

# 3. Exhaust emission control system

The Exhaust Emission Control System is a highly effective system which controls exhaust emissions while maintaining good vehicle performance.

#### Vehicle modifications

This vehicle should not be modified. Modification of your vehicle could affect its performance, safety or durability and may even violate governmental safety and emissions regulations.

In addition, damage or performance problems resulting from any modification may not be covered under warranty.

## Engine exhaust gas precautions (carbon monoxide)

 Carbon monoxide can be present with other exhaust fumes. Therefore, if you smell exhaust fumes of any kind inside your vehicle, have it inspected and repaired immediately. If you ever suspect exhaust fumes are coming into your vehicle, drive it only with all the windows fully open. Have your vehicle checked and repaired immediately.

## A WARNING - Exhaust

Engine exhaust gases contain carbon monoxide (CO). Though colorless and odorless, it is dangerous and could be lethal if inhaled. Follow the instructions following to avoid CO poisoning.

## A PROPOSITION 65 WARNING

Engine exhaust and a wide variety of automobile components and parts, including components found in the interior furnishings in a vehicle, contain or emit chemicals known to the State of California to cause cancer and birth defects and reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Do not operate the engine in confined or closed areas (such as garages) any more than what is necessary to move the vehicle in or out of the area.
- When the vehicle is stopped in an open area for more than a short time with the engine running, adjust the ventilation system (as needed) to draw outside air into the vehicle.
- Never sit in a parked or stopped vehicle for any extended time with the engine running.
- When the engine stalls or fails to start, excessive attempts to restart the engine may cause damage to the emission control system.

Operating precautions for catalytic converters

## **A** WARNING - Fire

A hot exhaust system can ignite flammable items under your vehicle. Do not park the vehicle over or near flammable objects, such as grass, vegetation, paper, leaves, etc.

Your vehicle is equipped with a catalytic converter emission control device.

Therefore, the following precautions must be observed:

- Use only UNLEADED FUEL for gasoline engine.
- Do not operate the vehicle when there are signs of engine malfunction, such as misfire or a noticeable loss of performance.
- Do not misuse or abuse the engine. Examples of misuse are coasting with the ignition off and descending steep grades in gear with the ignition off.

- Do not operate the engine at high idle speed for extended periods (5 minutes or more).
- Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by an authorized Hyundai dealer.
- Avoid driving with a very low fuel level. If you run out of gasoline, it could cause the engine to misfire and result in excessive loading of the catalytic converter.

Failure to observe these precautions could result in damage to the catalytic converter and to your vehicle. Additionally, such actions could void your warranties.

Label information / 8-2 Consumer information / 8-4 Reporting safety defects / 8-5 Binding arbitration (U.S.A only) / 8-5

## Consumer information

## LABEL INFORMATION



## Vehicle identification number (VIN)

The vehicle identification number (VIN) is the number used in registering your car and in all legal matters pertaining to its ownership, etc.

It can be found on the floor under the passenger seat. To check the number, remove the cover.



VIN label

Compliance label

OHD086007




#### Tire specification/pressure label

The tires supplied on your new vehicle are chosen to provide the best performance for normal driving.

The tire label located on the driver's side of the center pillar outer panel gives the tire pressures recommended for your car.



#### Engine number

The engine number is stamped on the engine block as shown in the drawing.

#### **CONSUMER INFORMATION**

This consumer information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation. It provides the purchasers and/or prospective purchasers of Hyundai automobiles with information on uniform tire quality grading. Your Hyundai dealer will help answer any questions you may have as you read this information.

Hyundai motor vehicles are designed and manufactured to meet or exceed all applicable safety standards.

For your safety, however, we strongly urge you to read and follow all directions in this Owner's Manual, particularly the information under the headings "NOTICE", "CAUTION" and "WARN-ING".

If, after reading this manual, you have any questions regarding the operation of your vehicle, please contact your nearest Hyundai Motor America Regional Office as listed in the following: **Eastern Region:** Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvanina, Rhode Island, Vermont, Virginia, West Virginia.

Eastern Region 1100 Cranbury South River Road Jamesburg, NJ 08831 (800) 633-5151

**Southern Region:** Florida, Georgia, North Carolina, South Carolina.

Southern Region 270 Riverside Parkway, Suite A Austell, GA 30168 (800) 633-5151

South Central Region: Alabama, Arkansas, Colorado, Kansas, Louisiana, Mississippi, Missouri, New Mexico, Oklahoma, Tennessee, Texas, Wyoming.

South Central Region 1421 South Beltline Road, Suite 400 Coppell, TX 75019 (800) 633-5151 **Central Region:** Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Nebraska, North Dakota, South Dakota, Ohio, Wisconsin.

Central Region 1705 Sequoia Drive Aurora, Illinois 60506 (800) 633-5151

Western Region: Alaska, Hawaii, Arizona, California, Idaho, Montana, Nevada, Oregon, Texas, Utah, Washington.

Western Region 10550 Talbert Avenue P.O.Box 20850 Fountain Valley, California 92728-0850 (800) 633-5151

#### **REPORTING SAFETY DEFECTS BINDING ARBITRATION (U.S.A ONLY)**

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 HYUNDAI MOTOR AMERICA. 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 HYUNDAI MOTOR AMERICA.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov. Any claim or dispute you may have related to your vehicle's warranty or the duties contemplated under the warranty, including claims related to the refund or partial refund of your vehicle's purchase price (excluding personal injury or product liability claims), shall be resolved by binding arbitration. Binding arbitration shall be administered by and through the National Arbitration Forum (NAF) or the American Arbitration Association (AAA), under the Code of Procedure of the entity you select.

You will not be responsible for paying filing and hearing fees above \$275.00. All other arbitration costs shall be borne by Hyundai Motor America. You are not responsible to pay any of the costs Hyundai incurs.

This Binding Arbitration Agreement shall not deprive you of any remedies available to you under applicable law. The parties are waiving their right to seek remedies in court, including the right to a jury trial. This Binding Arbitration Agreement shall be governed by and interpreted under the Federal Arbitration Act, 9 U.S.C. sections 1-16. Judgment upon any award may be entered in any court having jurisdiction.

You may revoke this Arbitration Agreement by (1) written notice or (2) electronic notice. Written notice must be delivered (via certified mail) to Hyundai Motor America, Attn: Consumer Affairs, 10550 Talbert Avenue, P.O. Box 20849, Fountain Valley, CA 92728-0849.

Electronic notice must be submitted at the following website address: http://warranty-arbitration.hyundaiUSA.com. Notice must be received within 90 days after you purchase your vehicle.

Dimensions / 9-2 Bulb wattage / 9-2 Tires and wheels / 9-3

# Specifications

### DIMENSIONS

Item	in (mm)
Overall length	177.4 (4505)
Overall width	69.9 (1775)
Overall height	58.3 (1480)
Front tread	60.7 (1543), 60.2 (1529)*1
Rear tread	60.7 (1541), 60.1 (1526)*1
Wheelbase	104.3 (2650)

\*1 : with 205/55R16 tire

### **BULB WATTAGE**

Light Bulb	Wattage
Headlights (Low)	55
Headlights (High)	55
Front turn signal/Position lights	28/8
Side mark lights	5
Front fog lights*	27
Stop and tail lights	27/8
Rear turn signal lights	27
Back-up lights	18
High mounted stop light	18
License plate lights	5
Front map lamps	10
Center dome lamps	10
Trunk room lamp	5
Glove box lamp	5
Vanity mirror lamps*	5

\* : If equipped

### TIRES AND WHEELS

Item	Item Tire Wheel size		ا Inflation psi (ا	Wheel lug nut torque lb•ft	
			Front	Rear	- (kg∙m, N∙m)
Full size tire	P195/65R15 89T	5.5J×15	32 (220)	32 (220)	
Full Size the	P205/55R16 89H	6.0J×16	32 (220)	32 (220)	65~79
Compact	T125/80D15 95M 4.0T×15	4.0T×15	60	60	(9~11, 88~107)
spare tire	1125/00015 9510	4.01X15	(420)	(420)	

#### **Recommended lubricants and capacities**

To help achieve proper engine and powertrain performance and durability, use only lubricants of the proper quality. The correct lubricants also help promote engine efficiency that results in improved fuel economy.

These lubricants and fluids are recommended for use in your vehicle.

Lubricant	Volume	Classification	
Engine oil <sup>*1 *2</sup> (drain and refill)			
	4.23 US qt. (4.0 <i>l</i> )	API Service SJ, SL or above, ILSAC GF-3 or above	
< <pre></pre>	2.11 US qt. (2.0 <i>l</i> )	API Service GL-4 (SAE 75W-85, fill for-life)	
	2.11 03 ql. (2.0 l)	HYUNDAI GENUINE ATF SP-III, DIAMOND ATF SP-III,	
Automatic transaxle fluid	6.97 US qt. (6.6 <i>l</i> )	SK ATF SP-III or other brands metting the SP-III specification approved by Hyundai Motor Co.	
Coolant	6.97 US qt. (6.6 <i>l</i> )	MIXTURE, Antifreeze with water	
		(Ethylene glycol base coolant for aluminum radiator)	
Brake/Clutch fluid	0.7~0.8 US qt. (0.7~0.8 <i>l</i> )	FMVSS116 DOT-3 or DOT-4	
Fuel	14 US gal. (53 <i>l</i> )	-	

\*1 Refer to the recommended SAE viscosity numbers on the next page.

<sup>\*&</sup>lt;sup>2</sup> Engine oils labeled Energy Conserving Oil are now available. Along with other additional benefits, they contribute to fuel economy by reducing the amount of fuel necessary to overcome engine friction. Often, these improvements are difficult to measure in everyday driving, but in a year's time, they can offer significant cost and energy savings.

Recommended SAE viscosity number

### 

Always be sure to clean the area around any filler plug, drain plug, or dipstick before checking or draining any lubricant. This is especially important in dusty or sandy areas and when the vehicle is used on unpaved roads. Cleaning the plug and dipstick areas will prevent dirt and grit from entering the engine and other mechanisms that could be damaged. Engine oil viscosity (thickness) has an effect on fuel economy and cold weather operation (engine start and engine oil flowability). Lower viscosity engine oils can provide better fuel economy and cold weather performance, however, higher viscosity engine oils are required for satisfactory lubrication in hot weather. Using oils of any viscosity other than those recommended could result in engine damage. When choosing an oil, consider the range of temperature your vehicle will be operated in before the next oil change. Proceed to select the recommended oil viscosity from the chart.

	Tem	perat	ure Rar	nge	for SAE	EV	iscosity	y Numb	oers		
Temperature	°C	-30	-20		-10	0	10	20	30	40	50
Temperature	(°F)	-	10	0	20		40	60	80	100	120
Gasoline								10W-30	)		
Engine Oil *	1					5	W-20, 5\	N-30			

For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-20,5W-30 (API SJ, SL / ILSAC GF-3 or above). However, if the engine oil is not available in your country, select the proper engine oil using the engine oil viscosity chart.



### Α

Air cleaner ······ 7-23
Airbag-advanced supplemental restraint system 3-29
Driver's and passenger's front air bag
SRS components and functions
Occupant classification system 3-32
Side air bag
Curtain air bag ······ 3-43
Air bag warning label 3-54
Appearance care
Audio system
M420
M445
M465
Automatic climate control system 4-69
Automatic transaxle
Ignition key interlock system 5-14
Automatic transaxle operation 5-11
Transaxle ranges 5-12
Shift lock system
Automatic transaxle fluid

### Β

Battery	7-29
Before driving	5-3
Binding arbitration (U.S.A only)	8-5
Brake system	5-16

Anti-lock brake system (ABS) 5-1	9
Parking brake	
Power brakes	6
Brakes and clutch fluid	9
Bulb wattage9-2	2

### С

Child restraint system	3-21
Tether anchor system	
Child seat lower anchors	3-27
Placing a passenger seat belt into the auto lock mode	3-23
Climate control air filter	7-25
Consumer information	• 8-4
Cruise control system	5-26

### D

Defroster	
Dimensions	
Door locks	
Central door lock switch	
Child-protector rear door lock	

Ε

Economical operation 5-	30
Emergency starting	5-4

Emission control system
Engine compartment
Engine coolant ······ 7-16
Engine oil 7-15
Explanation of scheduled maintenance items

### F

Fuel filler lid ······ 4-20
Fuel requirements1-3
Fuses

### Η

Hazard warning flasher 4-5	50
Hood 4-1	18
How to use this manual 1-	-2

#### T

If the engine overheats
If the engine will not start
If you have a flat tire
Changing tires
Removing the spare tire
Storing the spare tire
Important - use of compact spare tire
In case of an emergency while driving
Indicator symbols on the instrument cluster 1-7

Instrument cluster	
Gauges ·····	
Engine temperature gauge	
Fuel gauge	4-40
Instrument panel illumination	
Odometer/Trip odometer	
Speedometer	
Tachometer	
Instrument panel overview	
Interior features	
Ashtray	
Cigarette lighter	4-82
Clothes hanger	
Cup holder	
Digital clock	
Power outlet	
Shopping bag holder	
Sunvisor ·····	
Interior light	
Interior overview	

### Κ

L

Key positions	5	-4
Keys	4	-2

Label information		8-2
-------------------	--	-----

Light bul	lbs ·····	7-54
Lighting		4-51

### Μ

Maintenance services	
Manual climate control system	
Manual transaxle	
Mirrors	

### 0

Owner maintenance		7-5	5
-------------------	--	-----	---

#### Ρ

Parking brake ······ 7-22

### R

Remote keyless entry 4-3
Reporting safety defects 8-5
Road warning ······ 6-2

### S

Scheduled maintenance service	7-7
Seat ·····	3-2

Armrest ·····	3-9
Headrest ·····	3-5
Front seat adjustment	3-3
Rear seat adjustment	3-8
Seatback pocket	3-7
Seat warmer ·····	3-6
Seat belts	
Seat belt precautions	-18
Care of seat belts	
Driver's 3-point system 3-	-13
Passenger's 3-point system 3-	-14
3-point rear center belt	-14
Pre-tensioner belt	-15
Special driving conditions 5-	-32
Starting the engine	
Steering wheel 4-	
Storage compartment 4-	-80
Center console storage 4-	-80
Glove box ······ 4-	-80
Sunglass holder 4-	-81
Sunroof	-23

#### Т

Theft-alarm system	4-6
Tires and wheels	7-32
Tires and wheels	9-3
Towing	
Tie-down hook	6-18
Trailer towing	5-39

Hitches 5-40
Safety chains
Trailer brakes
Weight of the trailer (tongue) 5-45
Trunk 4-12

## V

Vehicle break-in process	1-5
Vehicle data collection and event data recorders	1-6
Vehicle load limit	
Compliance label	5-49
Tire and loading information label	
Vehicle capacity weight	5-47
Seating capacity	
Towing capacity	5-47
Cargo capacity	5-47

### W

Washer fluid	7-22
Weight of the vehicle	5-52
Windows	4-14
Power window lock button	4-17
Windshield defrosting and defogging	
Automatic climate control system	4-78
Defogging logic	
Manual climate control system	4-77
Winter driving	
Snow tires	5-35

Tire chains 5-35	
Wiper blades	/
Wipers and washers 4-54	ł

This Owner's Manual should be considered a part of the car and remain with it when it is sold for the use of the next owner.

ORIGINAL OWNER	OWNER'S INFORMATION
CITY STATE ZIP CODE DELIVERY DATE	STATE ZIP CODE
(Date Sold to Original Retail Purchaser) DEALER NAME DEALER NO ADDRESS CITY STATE ZIP CODE	DEALER NO



# SERVICE STATION INFORMATION FUEL:

UNLEADED gasoline only Pump Octane Rating of 87 (Research Octane Number 91) or higher.

#### FUEL TANK CAPACITY

US.gal (Imp.gal., liter) 14 (11.7, 53)

#### TIRE PRESSURE:

See the label on the driver's side of the center pillar outer panel.

#### **OTHER TIRE INFORMATION:**

See pages 7-32 through 7-44

#### HOOD RELEASE:

Pull handle under left side of dash.

#### ENGINE OIL:

API grade SJ, SL or ABOVE / ILSAC grade GF-3 or ABOVE and fuel efficient oil. Use SAE 5W-20, 5W-30 or 10W-30 if normal temperatures are above 0°F (-18°C). See page 7-15 or 9-4.

#### MANUAL TRANSAXLE:

HYUNDAI GENUINE PARTS MTF 75W/85 (API GL-4) Oil level should be up to filler-bolt hole in housing beside differential.

#### **AUTOMATIC TRANSAXLE:**

Apply the parking brake, with the engine running, shift the selector lever through all ranges and return to "N" (Neutral) position. Then check the level of fluid on the dipstick. Use only HYUNDAI GENUINE ATF SP III, DIAMOND ATF SP III, SK ATF SP III or other brands meeting the SP III specification approved by Hyundai Motor Co..

#### QUICK INDEX

o Car will not start	6-3
o Flat tire	
o Warning light/chime comes on	4-44 ~ 4-49
o Engine overheats	
o Towing of your vehicle	
o Starting the engine	5-5
o Driving tips for first 1,200 miles (2,000 km)	1-5
o Scheduled maintenance	7-8
o Reporting safety defects	8-5

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