

ECONOMICAL OPERATION

E100000APB

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 kilometers (miles) you can get from a liter (gallon) 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 the 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 vehicle 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 vehicle in good condition. For better fuel economy and reduced maintenance costs, maintain your vehicle in accordance with the maintenance schedule in Section 7. If you drive your vehicle in severe conditions, more frequent maintenance is required (see Section 7 for details).
- Keep your vehicle 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 vehicle. This extra weight can result in increased fuel consumption and also contribute to corrosion.
- Travel lightly. Don't carry unnecessary weight in your vehicle. 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 a very high gear resulting 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

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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 braking or steering.
- When braking with non-ABS brakes pump the brake pedal with a light up-and-down motion until the vehicle is stopped.

⚠ 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.

⚠ 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.

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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.

⚠ CAUTION
Prolonged rocking may cause engine over-heating, transaxle damage or failure, and tire damage.

⚠ WARNING - Spinning tires
Do not spin the wheels, especially at speeds more than 56 km/h (35 mph). Spinning the wheels at high speeds when the vehicle is stationary could cause a tire to overheat which could result in tire damage that may injure bystanders.

* NOTICE

The ESP system (if equipped) should be turned OFF prior to rocking the vehicle.

⚠ WARNING
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 or backward as it becomes unstuck, causing injury or damage to nearby people or objects.



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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.



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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.



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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.

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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.



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Highway driving

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.

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 “Tires and wheels” in section 8.**
- **Driving on tires with no or insufficient tread is dangerous. Worn-out 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 vehicle. For further information and tread limits, refer to “Tires and wheels” in section 7.**

Fuel, engine coolant and engine oil

High speed travel consumes more fuel than urban motoring. Do not forget to check both the engine coolant and engine oil.

Drive belt

A loose or damaged drive belt may overheat the engine.

WINTER DRIVING



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Severe weather conditions in the winter result in greater wear and other problems. To minimize the problems of winter driving, you should follow these suggestions:

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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. 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 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.

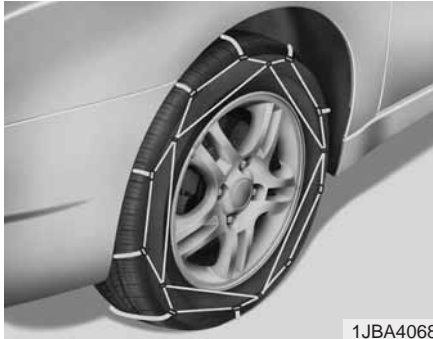
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Snow tires

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.

⚠ 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.



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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 wire-type chains with a thickness of less than 15 mm (0.59 in). Damage to your vehicle caused by improper snow chain use is not covered by your vehicle manufacturer's warranty.

Install tire chains only on the front tires.

⚠ CAUTION

- ***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 0.5 to 1 km (0.3 to 0.6 miles) 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.

⚠ WARNING

- 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 P (Park), 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 30 km/h (20 mph) 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 locked-wheel braking.

⚠ CAUTION

- *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.*

E120200AUN

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.

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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.

E120400APB

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 8 for recommendations. If you aren't sure what weight oil you should use, consult an authorized HYUNDAI dealer.

E120500AUN

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.

E120600AUN

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.

E120700AFD

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.

E120800APB

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 vehicle cannot roll. Then release the parking brake.

E120900AUN

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.

E121000ASA

Carry emergency equipment

Depending on the severity of the weather, 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 (FOR EUROPE)

E140000APB

If you are considering towing with your vehicle, you should first check with your country's Department of Motor Vehicles to determine their legal requirements.

Since laws vary 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.

*** NOTICE - For Europe**

- The technically permissible maximum load on the rear axle(s) may be exceeded by not more than 15% and the technically permissible maximum laden mass of the vehicle may be exceeded by not more than 10% or 100kg (220.4 lbs), whichever value is lower. In this case, do not exceed 100 km/h (62.1 mph) for vehicle of category M1 or 80 km/h (49.7 mph) for vehicle of category N1.
- When a vehicle of category M1 is towing a trailer, the additional load imposed at the trailer coupling device may cause the tire maximum load ratings to be exceeded, but not by more than 15%. In this case, do not exceed 100 km/h (62.1 mph) and increase the tire inflation pressure by at least 0.2 bar.

CAUTION

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.

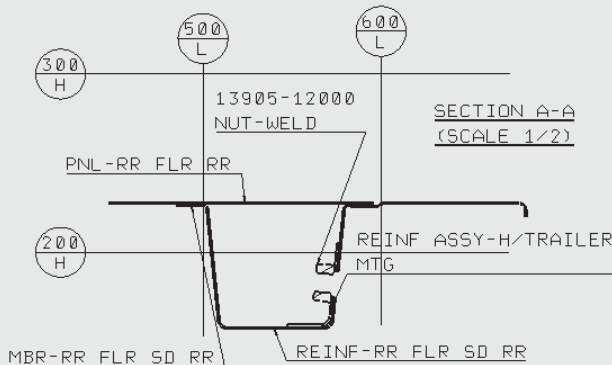
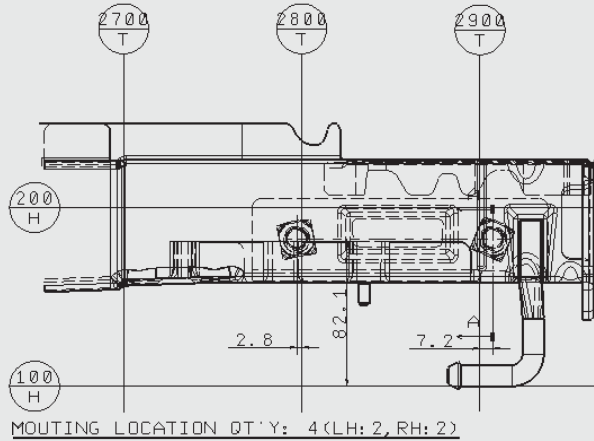
what the vehicle trailering capacity is for your vehicle, you should read the information in "Weight of the trailer" that appears later in this section.

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 considerably adds wind resistance, increasing the pulling requirements.

Your vehicle can tow a trailer. To identify



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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 frame-mounted hitch that does not attach to the bumper.
- HYUNDAI trailer hitch accessory is available at an authorized HYUNDAI dealer.

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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.

E140300AUN

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to your country's 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.

E140400ASA

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 trailer brakes are still working.

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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.

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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.

E140403AUN

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.

E140404AUN

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.

E140405AFD

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.

E140406APB

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 70 km/h (45 mph) 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.

WARNING

Failure to use an approved trailer wiring harness could result in damage to the vehicle electrical system and/or personal injury.

⚠ CAUTION

- *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 over-heat.*

If the needle of the coolant temperature gauge moves across the dial towards “130” (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 the driving speed depending on trailer weight and uphill grade to reduce the possibility of engine and transaxle overheating.*

E140407APA

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 loose.

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.

⚠ 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.

E140500APB

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 quickly. 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.

CAUTION

- ***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 the transaxle fluid more frequently.***
- ***If your vehicle is not equipped with an air conditioner, you should install a condenser fan to improve engine performance when towing a trailer.***

E140600APB

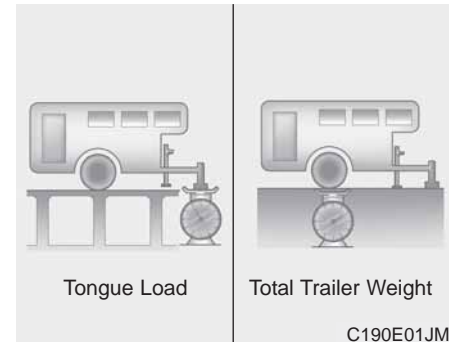
If you do decide to pull a trailer

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 vehicle during its first 2,000 km (1,200 miles) 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 100 km/h (60 mph)).
- On a long uphill grade, do not exceed 70 km/h (45 mph) or the posted towing speed limit, whichever is lower.
- The chart contains important considerations that have to do with weight:

Engine		Gasoline Engine					Diesel Engine
		1.2 L	1.4 L		1.6 L		1.4 / 1.6 L
			M/T	A/T	M/T	A/T	
Item							
Maximum trailer weight kg (lbs.)	Without brake System	450 (992)	450 (992)	450 (992)	450 (992)	450 (992)	450 (992)
	With brake System	850 (1874)	1000 (2205)	800 (1764)	1100 (2425)	900 (1984)	1100 (2425)
Maximum permissible static vertical load on the coupling device kg (lbs.)		50 (110)					
Recommended distance from rear wheel center to coupling point mm (Inch)		730 (28.7)					

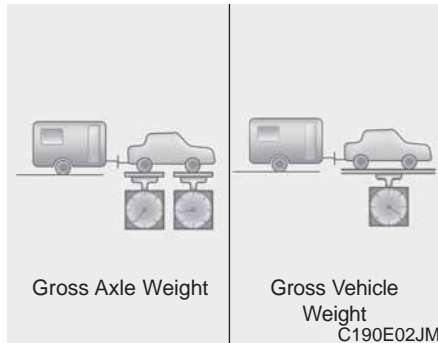
M/T : Manual transaxle
A/T : Automatic transaxle



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Weight of the trailer

What is the maximum safe weight of a trailer? 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.



E140602ASA

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 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, within the limits of the maximum trailer tongue load permissible. 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.

⚠ 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.**
- **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 WEIGHT

E160000AUN

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:

E160100AUN

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.

E160200AUN

Vehicle curb weight

This is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.

E160300AUN

Cargo weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

E160400AUN

GAW (Gross axle weight)

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

E160500AUN

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.

E160600AUN

GVW (Gross vehicle weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers weight.

E160700AUN

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 certification label located on the driver's (or front passenger's) door sill.

E160800AUN

Overloading

⚠ WARNING - Vehicle weight
 The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) for your vehicle are on the certification label attached to the driver's (or front passenger'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.

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Towing / 6-29

What to do in an emergency

ROAD WARNING



OPB049058R

F010100AUN

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

F020100AUN

If the engine stalls at a crossroad or crossing

- If the engine stalls at a crossroad or crossing, set the shift lever in the N (Neutral) position and then push the vehicle to a safe place.
- If your vehicle has a manual transaxle not equipped with a ignition lock switch, the vehicle can move forward by shifting to the 2(second) or 3(third) gear and then turning the starter without depressing the clutch pedal.

F020200APB

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 vehicle 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 vehicle 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 a 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 vehicle 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 vehicle. Be sure they all get out on the side of the vehicle that is away from traffic.
4. When changing a flat tire, follow the instruction provided later in this section.

F020300APB

If the 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 DOES NOT START

F030100APB

If engine doesn't turn over or turns over slowly

1. If your vehicle has an automatic transaxle, be sure the shift 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".

WARNING

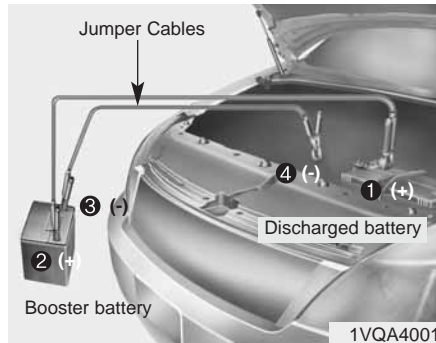
If the engine will not start, do not push or pull the vehicle to start it. This could result in a collision or cause other damage. In addition, push or pull starting may cause the catalytic converter to overload and create a fire.

F030200APB

If the engine turns over normally but does not start

1. Check the fuel level.
2. With the ignition switch in the LOCK position, check all connectors at the ignition coils 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



F040000AUN

Connect cables in numerical order and disconnect in reverse order.

F040100AHM

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 you have any doubt, we strongly recommend that you have a competent technician or towing service jump start your vehicle.

⚠ CAUTION

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.

⚠ 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.

If these instructions are not followed exactly, serious personal injury and damage to the vehicle may occur! If you are not sure how to follow this procedure, seek qualified assistance. Automobile batteries contain sulfuric acid. This is poisonous and highly corrosive. When jump starting, wear protective glasses and be careful not to get acid spilled on yourself, your clothing or on the vehicle.

- 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.

F040101AFD

Jump starting procedure

1. Make sure the booster battery is 12-volt 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.

F040200AUN

Push-starting

Your manual transaxle-equipped vehicle should not be push-started because it might damage the emission control system.

Vehicles equipped with automatic transaxle cannot be push-started.

Follow the directions in this section for jump-starting.



WARNING

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

F050000APB

If your temperature gauge indicates overheating, you will experience a loss of power, or hear loud pinging or knocking sound, the engine will probably be too hot. If this happens, you should:

1. Pull the vehicle off the road and stop as soon as it is safe to do so.
2. Place the shift 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 vehicle 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 leakage from the radiator, hoses or under the vehicle. (If the air conditioning had been in use, it is normal for cold water to be draining from it when you stop).

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.

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.

CAUTION

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.

TIRE PRESSURE MONITORING SYSTEM (TPMS) (IF EQUIPPED)



F060000AFD

- (1) TPMS Malfunction Indicator
- (2) Low Tire Pressure Position telltale
- (3) Low Tire Pressure telltale

F060000APB

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is provided by a separate telltale, which displays the symbol "TPMS" when illuminated. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

* NOTICE

If the TPMS, Low Tire Pressure and Position indicators do not illuminate for approximately 3 seconds when the ignition switch is turned to the ON position or engine is running, or if they remain illuminated after coming on for approximately 3 seconds, take your vehicle to your nearest authorized HYUNDAI dealer and have the system checked.

F060100APB



Low tire pressure telltale



Low tire pressure position telltale

When the tire pressure monitoring system warning indicators are illuminated, one or more of your tires is significantly under-inflated. The low tire pressure position telltale light will indicate which tire is significantly under-inflated by illuminating the corresponding position light.

If either telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label. If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

Then the TPMS malfunction indicator may come on and the Low Tire Pressure telltale may go off after restarting and about 20 minutes of continuous driving before you have the low pressure tire repaired and replaced on the vehicle.

* NOTICE

The spare tire is not equipped with a tire pressure sensor.

 **CAUTION**

In winter or cold weather, the low tire pressure telltale may be illuminated if the tire pressure was adjusted to the recommended tire inflation pressure in warm weather. It does not mean your TPMS is malfunctioning because the decreased temperature leads to a proportional lowering of tire pressure.

When you drive your vehicle from a warm area to a cold area or from a cold area to a warm area, or the outside temperature is greatly higher or lower, you should check the tire inflation pressure and adjust the tires to the recommended tire inflation pressure.

 **WARNING - Low pressure damage**

Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.

Continued driving on low pressure tires can cause the tires to overheat and fail.

F060200APB

TPMS

TPMS (Tire Pressure Monitoring System) malfunction indicator

The TPMS malfunction indicator comes on and stays on when there is a problem with the Tire Pressure Monitoring System. If the system is able to correctly detect an underinflation warning at the same time as system failure then it will illuminate both the TPMS malfunction and the low tire pressure and position telltales e.g. if Front Left sensor fails, the TPMS malfunction indicator illuminates, but if the Front Right, Rear Left, or Rear Right tire is under-inflated, the low tire pressure and position telltales may illuminate together with the TPMS malfunction indicator.

Have the system checked by an authorized HYUNDAI dealer as soon as possible to determine the cause of the problem.

CAUTION

- *The TPMS malfunction indicator may be illuminated if the vehicle is moving around electric power supply cables or radios transmitter such as at police stations, government and public offices, broadcasting stations, military installations, airports, or transmitting towers, etc. This can interfere with normal operation of the Tire Pressure Monitoring System (TPMS).*
- *The TPMS malfunction indicator may be illuminated if snow chains or some electronic devices, such as notebook computers are used in the vehicle. This can interfere with normal operation of the Tire Pressure Monitoring System (TPMS).*

F060300APB

Changing a tire with TPMS

If you have a flat tire, the Low Tire Pressure and Position telltales will come on. Have the flat tire repaired by an authorized HYUNDAI dealer as soon as possible or replace the flat tire with the spare tire.

CAUTION

NEVER use a puncture-repairing agent to repair and/or inflate a low pressure tire. The tire sealant can damage the tire pressure sensor. If used, you will have to replace the tire pressure sensor.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. You must use TPMS specific wheels. It is recommended that you always have your tires serviced by an authorized HYUNDAI dealer.

Even if you replace the low pressure tire with the spare tire, the TPMS malfunction indicator may come on and the Low Tire Pressure telltale may go off after restarting and about 20 minutes of continuous driving before you have the low pressure tire repaired and replaced on the vehicle.

However, if the low pressure tire is not in the vehicle, the Low Tire Pressure and Position telltales will go off and the TPMS malfunction indicator will come on after a few minutes because the spare tire does not have a sensor.

Once the low pressure tire is re-inflated to the recommended pressure and installed on the vehicle, the TPMS malfunction indicator and the low tire pressure and position telltales will extinguish within a few minutes of driving.

If the indicators are not extinguished after a few minutes of driving, please visit an authorized HYUNDAI dealer.

You may not be able identify a low pressured tire by simply looking at it. Always use a good quality tire pressure gauge to measure the tire's inflation pressure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold (from sitting stationary for at least 3 hours and driven less than 1.6km (1 mile) during that 3 hour period).

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

A cold tire means the vehicle has been sitting for 3 hours and driven for less than 1.6km (1 mile) in that 3 hour period.

 **CAUTION**

Do not use any tire sealant if your vehicle is equipped with a Tire Pressure Monitoring System. The liquid sealant can damage the tire pressure sensors.

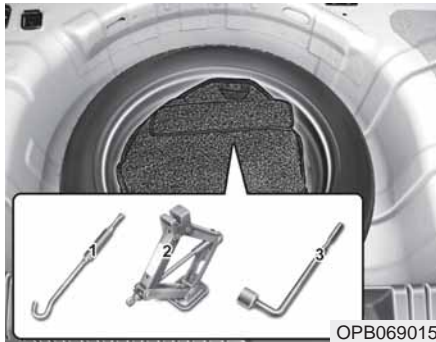
 **WARNING - TPMS**

- **The TPMS cannot alert you to severe and sudden tire damage caused by external factors such as nails or road debris.**
- **If you feel any vehicle instability, immediately take your foot off the accelerator, apply the brakes gradually and with light force, and slowly move to a safe position off the road.**

 **WARNING - Protecting TPMS**

Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may interfere with the system's ability to warn the driver of low tire pressure conditions and/or TPMS malfunctions. Tampering with, modifying, or disabling the Tire Pressure Monitoring System (TPMS) components may void the warranty for that portion of the vehicle.

IF YOU HAVE A FLAT TIRE



F070100AFD

Jack and tools

The spare tire, jack, jack handle, wheel lug nut wrench are stored in the luggage compartment.

Pull up the floor cover of the luggage compartment to reach the jack on the spare tire. (if equipped)

- (1) Jack handle
- (2) Jack
- (3) Wheel lug nut wrench

F070101APB

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.

⚠ 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 firm level 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)

(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



F070200AFD

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.



F070300APB

Changing tires

1. Park on a level surface and apply the parking brake firmly.
2. Shift the shift lever into R (Reverse) for manual transaxle or P (Park) for automatic transaxle.
3. Activate the hazard warning flasher.



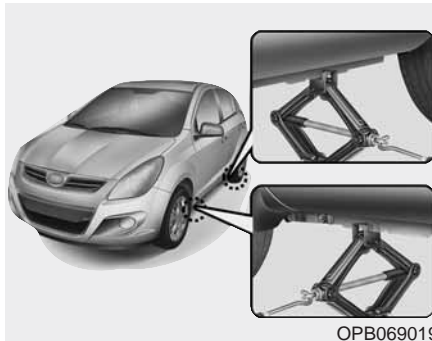
4. Remove the wheel lug nut wrench, jack, jack handle, and spare tire from the vehicle.
5. Block both the front and rear wheel that is diagonally opposite the jack position.

⚠ 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 30 mm (1.2 in). 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.

⚠ 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 the contact of the mounting surface between the wheel and hub is not good, 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 install the wheel, hold it on the studs, put the wheel nuts on the studs and tighten them finger tight. 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 vehicle 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 nut following the numerical sequence shown in the image until they are all tight. Then double-check each nut for tightness. After changing the wheels, have an authorized HYUNDAI dealer tighten the wheel nuts to their proper torque as soon as possible.

Wheel nut tightening torque:

Steel wheel & aluminium alloy wheel:
9~11 kg.m (65~79 lb.ft)


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 the 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 the wheels, always secure the flat tire in its place and return the jack and tools to their proper storage locations.


CAUTION

Your vehicle has metric threads on the wheel studs and nuts. Make certain during wheel removal that the same nuts that were 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.

 **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 "Tires and wheels" in section 8.

F070301AUN

Important - use of compact spare tire (if equipped)

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.

CAUTION

- ***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.***

WARNING

The compact spare tire is for emergency use only. Do not operate your vehicle on this compact spare at speeds over 80 km/h (50 mph). 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 420 kPa (60 psi).

*** NOTICE**

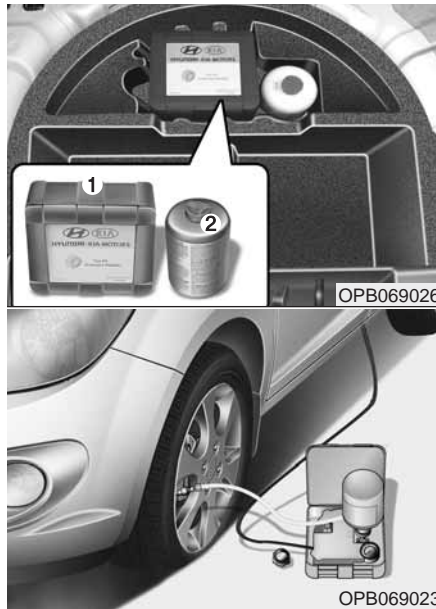
Check the inflation pressure after installing the spare tire. Adjust it to the specified pressure, as necessary.

When using a compact spare tire, observe the following precautions:

- Under no circumstances should you exceed 80 km/h (50 mph); 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 25 mm (1 inch), 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 compact 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 compact spare wheel. If such use is attempted, damage to these items or other car components may occur.
- Do not use more than one compact spare tire at a time.
- Do not tow a trailer while the compact spare tire is installed.

IF YOU HAVE A FLAT TIRE (WITH TIRESMOBILITYKIT, IF EQUIPPED)



F120000AUN

Please read the instructions before using the TireMobilityKit.

- (1) TireMobilityKit
- (2) Sealant bottle

F120100APB

Introduction

With the TireMobilityKit you will stay mobile even after experiencing a tire puncture. The system of the compressor and sealing compound effectively and comfortably seals most punctures in a passenger vehicle tire caused by nails or similar objects and reinflates the tire. After you are ensured that the tire is properly sealed you can drive cautiously on the tire (up to 200 km / 120 miles) at a max. speed of 80 km/h / 50 mph in order to reach a vehicle or tire dealer to have the tire replaced.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely. Air pressure loss in the tire may adversely effect tire performance. For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use. The TireMobilityKit is not designed or intended as a permanent tire repair method and is to be used for only one tire.

This instruction shows you step by step how to temporarily seal the puncture simply and reliably. Read the section "Notes on the safe use of the TireMobilityKit".

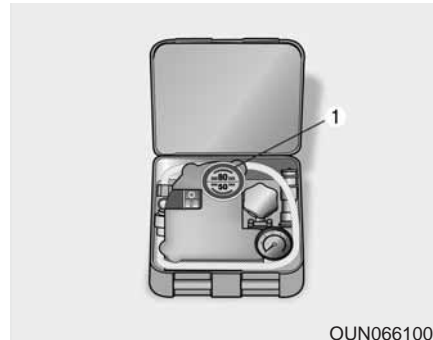
⚠ WARNING

Do not use the TireMobilityKit if a tire is severely damaged by driving on a flat tire or with insufficient air pressure. Only punctured areas located within the tread region of the tire can be sealed using the TireMobilityKit. Damage to the sidewall must not be repaired due to safety reasons.

F120200AUN

What to do when a tire is punctured

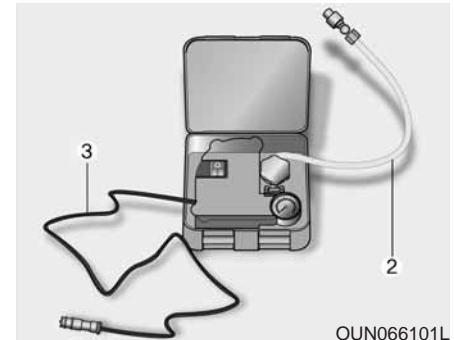
A punctured tire is repaired in two stages. In the 1st stage, sealing compound and air is inflated into the tire and the vehicle driven a short distance (3 km / 2 miles) to spread the compound inside the tire. In the 2nd stage, the inflation pressure is checked and, if necessary, more air is added into the tire. It is then possible to drive cautiously with the tire up to 200 km (120 miles) at a maximum speed of 80 km/h (50 mph) in order to reach a vehicle or tire dealer to have the tire replaced. If so inform other drivers that the TireMobilityKit has been used and provide advice and warnings about changed driving behaviour.



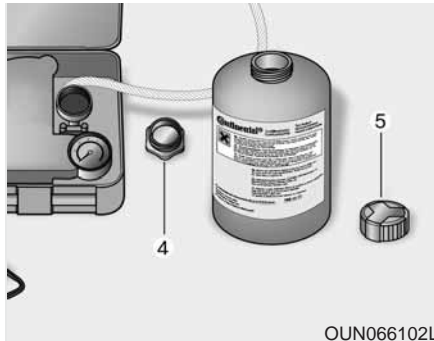
F120201APB

1st Stage: Pump sealing compound and air into the tire

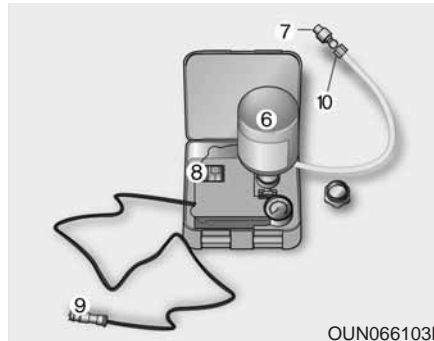
1. Open the lid and remove the speed label (1) from the TireMobilityKit and place it in the vehicle, within clear view of the driver.



2. Remove the hose (2) and the power cable (3) from the TireMobilityKit.



3. Unscrew the bottle holder cap (4) and the lid of the sealant bottle (5).



4. Screw the bottle clockwise into the bottle socket (6) until it is tight.

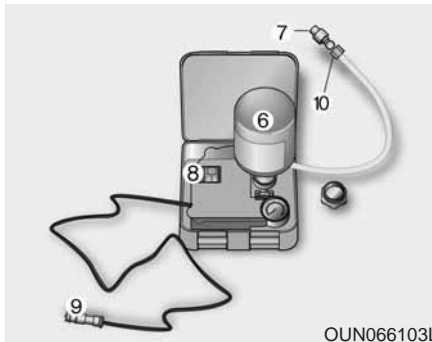
⚠ CAUTION

Screwing the sealant bottle into the socket will break the bottle seal. Do not unscrew the filled bottle from the socket - sealant could come out.

5. Unscrew the valve cap from the defective tire.
6. Screw the hose (7) of the TireMobilityKit firmly onto the tire valve.
7. Ensure that the On/Off switch (8) is in the "O"-position.
8. Place the electric plug (9) into the cigarette lighter socket (12 Volt). Do not use any other electric socket in the car.
9. Start the engine of the vehicle. (Only if the vehicle is outdoors!)

⚠ WARNING

Carbonmonoxide poisoning and suffocation is possible if the engine is left running in a poorly ventilated or unventilated location (such as inside a building).



10. Switch the On/Off switch (8) to the "I"-position.

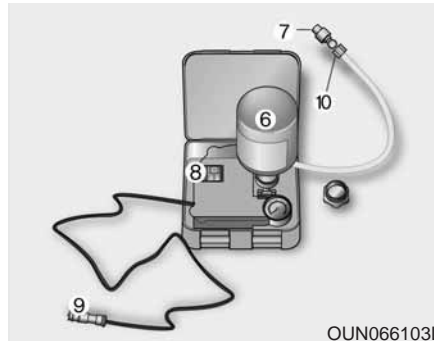
Please note: When the sealing compound is added through the tire valve the pressure gauge could increase from approximately 4-6 bar (60-90 psi), but it will drop again after about 30 seconds.

⚠ CAUTION
During the tire inflation operation do not stand next to the damaged tire. Check the sidewall of the tire for unusual bulges or deformations. Discontinue the inflation operation and deflate the tire by using the pressure release (10), if any unusual appearance is noticed.

11. Inflate the tire to at least 1.8 bar (26 psi) and at most 3.5 bar (51 psi) within 7 minutes. Switch off the compressor briefly by pressing "O" so you are able to read the actual tire inflation pressure on the gauge.

⚠ CAUTION
If a tire inflation pressure of 1.8 bar (26 psi) is not achievable within 7 minutes, the tire is too severely damaged and you must not drive on the tire. Call for road side service or towing.

12. If a tire inflation pressure of 1.8 bar (26 psi) is reached, turn the On/Off switch to the "O"-position, quickly unscrew the hose from the tire. Unplug the cable from the cigarette lighter. Do not unscrew the bottle. Stow the TireMobilityKit, the bottle cap and the bottle holder cap safely in the vehicle in an easily accessible place, as it will be needed again to check tire pressure.
13. Drive immediately and cautiously for about 3 km (2 miles) so that the sealing compound can seal the puncture. Do not exceed 80 km/h (50 mph). While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off to the side of the road. Call for road side service or towing.



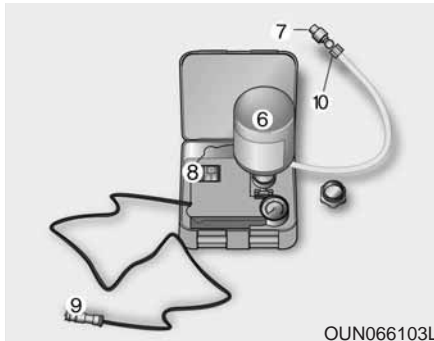
F120202APB

2nd Stage: Check tire pressure

14. Stop after driving for about 3 km (2 miles) and check the pressure of the punctured tire as follows:
 - a) Ensure that the On/Off switch (8) of the compressor is in the "O"-position.
 - b) Screw the hose onto the valve of the punctured tire.
 - c) Plug the power cable into the cigarette lighter (12 volt socket).
 - d) Read the inflation pressure on the gauge of the TireMobilityKit.

CAUTION

If the inflation pressure is below 1.3 bar (19 psi), do not continue to drive. Call for road side service or towing.



15. If the inflation pressure is 1.3 bar (19 psi) or more, turn the On/Off switch to the "I"-position and adjust the inflation pressure to the recommended inflation pressure (Refer to "Tires and wheels" in section 8). Reduce any excessive pressure by using the pressure release valve (10).
16. Turn the kit off by pressing "O". Unscrew the hose from the tire valve and unplug the electric plug from the socket.

17. Do not unscrew the bottle. Stow the TireMobilityKit safely in the vehicle.

⚠ WARNING

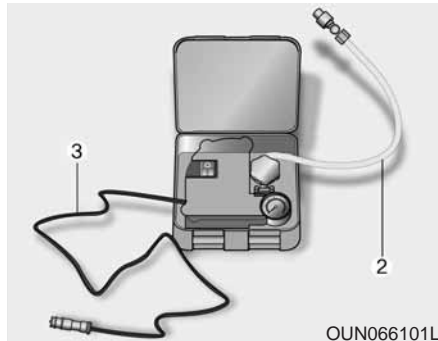
After the sealing compound has been used, the max. permissible speed is 80 km/h (50 mph) and the damaged tire is to be replaced promptly, at least within a distance of 200 km (120 miles). While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off to the side of the road. Call for road side service or towing.

18. Drive to the next vehicle or tire dealer to replace the tire.

⚠ WARNING

After a long period without driving, the inflation pressure must be checked before driving.

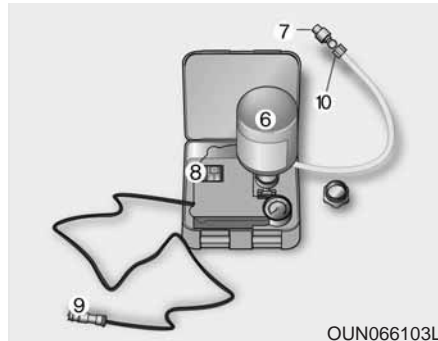
19. After using the TireMobilityKit to seal your tire, replace the hose, the sealing compound and connected parts. See the last page of this instruction. When replacing the damaged tire inform the tire mechanic that a sealing compound was used before the tire is demounted!



F120203APA

3rd stage: What to do when checking the tire inflation pressure

1. Open the lid from the TireMobilityKit.
2. Remove the hose (2) and the electric lead (3).
3. Unscrew the valve cap from the defective tire.



4. Screw the hose (7) tightly onto the tire valve.
5. Now you can read the tire pressure. If it needs to be increased, move on to step 6.
6. Make sure that the On/Off switch (8) is in the "O"-position.
7. Place the electric plug (9) into the socket of the cigarette lighter (12).
8. Start the engine (only if the vehicle is outdoors.)
9. Switch the On/Off switch (8) to the "I"-position and inflate the tire to the recommended inflation pressure.
10. Switch off the TireMobilityKit and check the tire pressure again.
11. After you have inflated the tire, unscrew the hose, unplug the electric plug and stow the TireMobilityKit safely in your vehicle.

F120300ASA

Notes on the safe use of the TireMobilityKit

- Park your vehicle at the side of the road so that you can work with the TireMobilityKit away from moving traffic. Place your warning triangle in a prominent place to make passing vehicles aware of your location.
- To be sure your vehicle won't move, even when you're on a fairly level ground, always set your parking brake.
- Only use the TireMobilityKit for sealing/inflation passenger car tires. Do not use on motorcycles, bicycles or any other type of tires.
- Do not remove any foreign objects - such as nails or screws - that have penetrated the tire.
- Before using the TireMobilityKit read the precautionary advice printed on the sealant bottle!
- Provided the vehicle is outdoors, leave the engine running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the TireMobilityKit unattended while it is being used.
- Do not leave the compressor running for more than 10 min. at a time or it may overheat.
- Do not use the TireMobilityKit if the ambient temperature is below -30°C (-20°F).
- Do not use the sealing compound after its expiration date which can be found on the label of the bottle.
- Keep away from children.



CAUTION

Do not use the TireMobilityKit if the tire is severely damaged by driving with insufficient air pressure (e.g. if the tire has bulges, cuts, cracks or similar defects). Only seal punctured areas located within the tread region of the tire. Damage to the sidewall should not be sealed for safety reasons.

What to do in an emergency

F120400APB

Technical Data

Type A

System voltage:

DC 12 V

Working voltage:

DC 10 - 15 V

Amperage rating:

max. 10 A

Suitable for use at temperatures:

-30 ~ +70°C (-22 ~ +158°F)

Max. working pressure:

6 bar (87 psi)

Size:

Compressor: 168.6 x 149 x 61.5 mm
(6.6 x 5.8 x 2.4 in.)

Sealant bottle: 139.3 x 68 ø mm
(5.4 x 3.4 ø in.)

Compressor weight:

0.95 kg (2.1 lbs)

Sealant volume:

300 ml (18.3 cu. in.)

Type B

System voltage:

DC 12 V

Working voltage:

DC 9 - 15 V

Amperage rating:

max. 10 A

Suitable for use at temperatures:

-40 ~ +70°C (-40 ~ +158°F)

Max. working pressure:

7~8 bar (101~116 psi)

Size:

Compressor: 170 x 150 x 65 mm
(6.7 x 5.9 x 2.6 in.)

Sealant bottle: 142 x 68 ø mm
(5.6 x 2.8 ø in.)

Compressor weight:

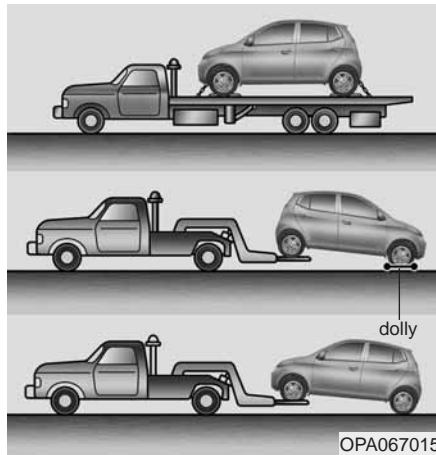
0.84 kg (1.9 lbs)

Sealant volume:

300 ml (18.3 cu. in.)

Sealing compound and spare parts can be obtained and replaced at an authorized vehicle or tire dealer. Empty sealing compound bottles may be disposed of at home. Liquid residue from the sealing compound should be disposed of by your vehicle or tire dealer or in accordance with local waste disposal regulations.

TOWING



F080100APA

Towing service

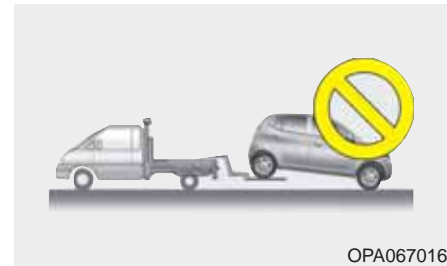
If emergency towing is necessary, we recommend having it done by an authorized HYUNDAI dealer or a commercial tow-truck service. Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

For trailer towing guidelines information, refer to "Trailer towing" in section 5.

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.



CAUTION

- **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.**

What to do in an emergency

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.

CAUTION

Failure to place the transaxle shift lever in N (Neutral) may cause internal damage to the transaxle.



F080200APA

Removable towing hook (front) (if equipped)

1. Open the tailgate, and remove the towing hook from the tool bag.
2. Remove the hole cover pressing the lower part of the cover on the front bumper.



3. Install the towing hook by turning it clockwise into the hole until it is fully secured.
4. Remove the towing hook and install the cover after use.



F080300APB

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 towing 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.

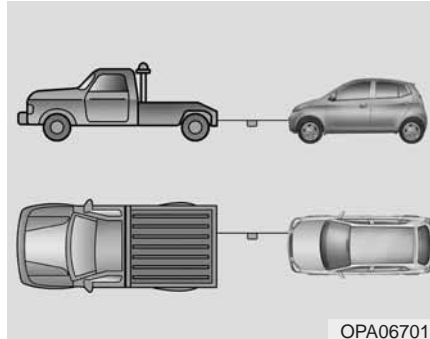
CAUTION

- **Attach a towing strap to the towing 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 it steadily with even force.
 - To avoid damaging the hook, do not pull from the side or at a vertical angle. Always pull straight ahead.

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.



- Use a towing strap less than 5 m (16 feet) long. Attach a white or red cloth (about 30 cm (12 inches) wide) in the middle of the strap for easy visibility.
- Drive carefully so that the towing strap is not loosened during towing.

F080301AUN

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 brake.
- 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.



CAUTION - Automatic transaxle

- *If the vehicle 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 40 km/h (25 mph) and for more than 25 km (15 miles). Be sure the steering wheel is unlocked by placing the ignition switch in the ACC position. A driver must be in the towed vehicle to operate the steering wheel and brakes.*
- *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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ENGINE COMPARTMENT

■ Gasoline Engine



1. Engine coolant reservoir
 2. Engine oil filler cap
 3. Brake/clutch fluid reservoir
 4. Air cleaner
 5. Fuse box
 6. Positive battery terminal
 7. Negative battery terminal
 8. Windshield washer fluid reservoir
 9. Radiator cap
 10. Engine oil dipstick
 11. Automatic transaxle dipstick*
- * : if equipped

* The actual engine room in the vehicle may differ from the illustration.

OPB009003R

G010000AFD

■ Diesel Engine



1. Engine coolant reservoir
2. Engine oil filler cap
3. Brake/clutch fluid reservoir
4. Air cleaner
5. Fuse box
6. Positive battery terminal
7. Negative battery terminal
8. Windshield washer fluid reservoir
9. Radiator cap
10. Engine oil dipstick
11. Fuel filter

※ The actual engine room in the vehicle may differ from the illustration.

OPB079001R

MAINTENANCE SERVICES

G020000APB

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.

G020100AEN

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.

G020200APB

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.

 WARNING - Diesel Engine

Never work on the injection system with the engine running or within 30 seconds after shutting off the engine. High-pressure pump, rail, injectors and high-pressure pipes are subject to high pressure even after the engine stopped. The fuel jet produced by fuel leaks may cause serious injury, if it touches the body. People using pacemakers should not move more than 30cm closer to the ECU or wiring harness within the engine room while the engine is running, since the high currents in the electronic engine control system produce considerable magnetic fields.

OWNER MAINTENANCE

G030000AFD

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

G030101AHM

When you stop for fuel:

- Check the engine oil level.
- Check the coolant level in the coolant reservoir.
- Check the windshield washer fluid level.
- Look for low or under-inflated tires.

 **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.

G030102APB

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 “hard-to-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 the parking brake.
- Check for fluid leaks under your vehicle (water dripping from the air conditioning system during or after use is normal).

G030103AHM

At least monthly:

- Check the 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.

G030104AHM

***At least twice a year
(i.e., every Spring and Fall) :***

- Check the radiator, heater and air conditioning hoses for leaks or damage.
- Check the windshield washer spray and wiper operation. Clean the wiper blades with clean cloth dampened with washer fluid.
- Check the headlight alignment.
- Check the muffler, exhaust pipes, shields and clamps.
- Check the lap/shoulder belts for wear and function.
- Check for worn tires and loose wheel lug nuts.

G030105APB

At least once a year :

- Clean the body and door drain holes.
- Lubricate the door hinges and checks, and hood hinges.
- Lubricate the door and hood locks and latches.
- Lubricate the door rubber weatherstrips.
- Check the air conditioning system.
- Inspect and lubricate the automatic transaxle linkage and controls.
- Clean the battery and terminals.
- Check the brake (and clutch) fluid level.

SCHEDULED MAINTENANCE SERVICE

G040000ATD

Follow the 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 32°C (90°F).

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After the periods or distance shown in the chart, continue to follow the prescribed maintenance intervals.

G040500APB

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (FOR EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	22.5	35	47.5	60	72.5	85	97.5
		Km×1,000	15	35	55	75	95	115	135	155
Drive belts *1		I	I	I	I	I	I	I	I	
Engine oil and engine oil filter *2		R	R	R	R	R	R	R	R	
Air cleaner filter		I	R	I	R	I	R	I	R	
Spark plugs			R		R		R		R	
Valve clearance *4	1.4/1.6L	Inspect every 95,000 km (60,000 miles) or 48 months *3								

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1 : Adjust alternator and power steering (and water pump drive belt) and air conditioner drive belt (if equipped).
Inspect and if necessary correct or replace.

*2 : Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.

*3 : For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

*4 : Inspect for excessive valve noise and/or engine vibration and adjust if necessary. A qualified technician should perform the operation.

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (CONT.) (FOR EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	22.5	35	47.5	60	72.5	85	97.5
		Km×1,000	15	35	55	75	95	115	135	155
Vapor hose and fuel filler cap										
Vacuum hose										
Fuel filter *5										
Fuel lines, hoses and connections										
Cooling system		Inspect "Coolant level adjustment and leak" every day Inspect "Water pump" when replacing the drive belt or timing belt								

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*5 : The fuel filter is considered to be maintenance free but periodic inspection is recommended for this maintenance schedule depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc, replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (CONT.) (FOR EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	22.5	35	47.5	60	72.5	85	97.5
		Km×1,000	15	35	55	75	95	115	135	155
Engine coolant *6	At first, replace at 95,000 km (60,000 miles) or 60 months: after that, replace every 40,000 km (25,000 miles) or 24 months									
Battery condition	I	I	I	I	I	I	I	I	I	
All electrical systems		I			I		I		I	
Brake lines, hoses and connections	I	I	I	I	I	I	I	I	I	
Brake pedal, clutch pedal		I			I		I		I	
Parking brake	I	I	I	I	I	I	I	I	I	
Brake/clutch fluid	I	R	I	R	I	R	I	R	I	
Disc brakes and pads	I	I	I	I	I	I	I	I	I	
Drum brakes and linings (if equipped)		I			I		I		I	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*6 : When adding coolant, use only a qualified coolant additive for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (CONT.) (FOR EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	22.5	35	47.5	60	72.5	85	97.5
		Km×1,000	15	35	55	75	95	115	135	155
Steering gear rack, linkage and boots			I	I	I	I	I	I	I	I
Driveshaft and boots			I	I	I	I	I	I	I	I
Tire (pressure & tread wear)			I	I	I	I	I	I	I	I
Front suspension ball joints			I	I	I	I	I	I	I	I
Bolt and nuts on chassis and body			I	I	I	I	I	I	I	I
Air conditioner refrigerant (if equipped)			I	I	I	I	I	I	I	I
Air conditioner compressor (if equipped)			I	I	I	I	I	I	I	I
Climate control air filter (if equipped)			R	R	R	R	R	R	R	R
Manual transaxle fluid (if equipped)			I	I	I	I	I	I	I	I
Automatic transaxle fluid (if equipped)	1.4/1.6L		I	I	I	I	R	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

G040600APA

MAINTENANCE UNDER SEVERE USAGE CONDITIONS - GASOLINE ENGINE (FOR EUROPE)

The following items must be serviced more frequently on cars mainly used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

I : Inspect and if necessary, adjust, correct, clean or replace R : Replace or change

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Engine oil and engine oil filter	R	At first, replace every 7,500 km (4,600 miles) or 6 months : after that, replace every 10,000 km (6,000 miles) or 6 months	A, B, C, D, E, F, G, H, I, J
Air cleaner filter	R	Replace more frequently depending on the condition	C, E
Spark plugs	R	Replace more frequently depending on the condition	B, H
Manual transaxle fluid (if equipped)	R	Every 100,000 km (62,000 miles)	C, D, E, G, H, I, J
Automatic transaxle fluid (if equipped)	R	Every 45,000 km (30,000 miles)	A, C, D, E, F, G, H, I, J
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G

Maintenance

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H
Drum brakes and linings (if equipped)	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J
Climate control air filter (if equipped)	R	Replace more frequently depending on the condition	C, E

Severe driving conditions

A : Repeated short distance driving

B : Extensive idling

C : Driving in dusty, rough roads

D : Driving in areas using salt or other corrosive materials or in very cold weather

E : Driving in sandy areas

F : More than 50 % driving in heavy city traffic during hot weather above 32°C (90°F)

G : Driving in mountainous areas.

H : Towing a trailer

I : Driving for patrol car, taxi, commercial car or vehicle towing

J : Driving over 170 km/h (106 mile/h)

G040100APA-EA

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (EXCEPT EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	20	30	40	50	60	70	80
		Km×1,000	15	30	45	60	75	90	105	120
Drive belts *1		I	I	I	I	I	I	I	I	
Engine oil and engine oil filter *2		R	R	R	R	R	R	R	R	
Air cleaner filter										
		I	I	R	I	I	R	I	I	
Spark plugs		Replace every 40,000 km (25,000 miles) *3								

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1 : Adjust alternator and power steering (and water pump drive belt) and air conditioner drive belt (if equipped).
Inspect and if necessary correct or replace.

*2 : Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.

*3 : For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (CONT.) (EXCEPT EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	20	30	40	50	60	70	80
		Km×1,000	15	30	45	60	75	90	105	120
Valve clearance *4	1.4/1.6L	Inspect every 95,000 km (60,000 miles) or 48 months *3								
Vapor hose and fuel filler cap					I				I	
Vacuum hose			I		I		I		I	
Fuel filter *5			I		R		I		R	
Fuel lines, hoses and connections					I				I	
Cooling system		Inspect "Coolant level and leak" every day Inspect "Water pump" when replacing the drive belt or timing belt								

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*3 : For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

*4 : Inspect for excessive valve noise and/or engine vibration and adjust if necessary. An authorized HYUNDAI dealer should perform the operation.

*5 : The fuel filter is considered to be maintenance free but periodic inspection is recommended for this maintenance schedule depends on fuel quality. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc, replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (CONT.) (EXCEPT EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	20	30	40	50	60	70	80
		Km×1,000	15	30	45	60	75	90	105	120
Engine coolant ^{*6}		At first, replace at 48,000 km (30,000 miles) or 24 months: after that, replace every 40,000 km (25,000 miles) or 24 months ^{*7}								
Battery condition		I	I	I	I	I	I	I	I	
All electrical systems			I			I		I	I	
Brake lines, hoses and connections		I	I	I	I	I	I	I	I	
Brake pedal, clutch pedal (if equipped)			I		I		I		I	
Parking brake			I		I		I		I	
Brake/clutch fluid		I	I	I	I	I	I	I	I	
Disc brakes and pads		I	I	I	I	I	I	I	I	
Drum brakes and linings (if equipped)			I		I		I		I	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

^{*6} : When adding coolant, use only a qualified coolant additive for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.

^{*7} : For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

NORMAL MAINTENANCE SCHEDULE - GASOLINE ENGINE (CONT.) (EXCEPT EUROPE)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	10	20	30	40	50	60	70	80
		Km×1,000	15	30	45	60	75	90	105	120
Steering gear rack, linkage and boots		I	I	I	I	I	I	I	I	
Driveshaft and boots		I	I	I	I	I	I	I	I	
Tire (pressure & tread wear)		I	I	I	I	I	I	I	I	
Front suspension ball joints		I	I	I	I	I	I	I	I	
Bolt and nuts on chassis and body		I	I	I	I	I	I	I	I	
Air conditioner refrigerant (if equipped)		I	I	I	I	I	I	I	I	
Air conditioner compressor (if equipped)		I	I	I	I	I	I	I	I	
Climate control air filter (if equipped)		R	R	R	R	R	R	R	R	
Manual transaxle fluid (if equipped)		I	I	I	I	I	I	I	I	
Automatic transaxle fluid (if equipped)		I	I	I	I	I	I	I	I	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

G040200APA

MAINTENANCE UNDER SEVERE USAGE CONDITIONS - GASOLINE ENGINE (EXCEPT EUROPE)

The following items must be serviced more frequently on cars mainly used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

I : Inspect and if necessary, adjust, correct, clean or replace

R : Replace or change

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Engine oil and engine oil filter	R	Every 7,500 km (4,600 miles) or 6 months	A, B, C, D, E, F, G, H, I, J
Air cleaner filter	R	Replace more frequently depending on the condition	C, E
Spark plugs	R	Replace more frequently depending on the condition	B, H
Manual transaxle fluid (if equipped)	R	Every 100,000 km (62,000 miles)	C, D, E, G, H, I, J
Automatic transaxle fluid (if equipped)	R	Every 40,000 km (25,000 miles)	A, C, D, E, F, G, H, I, J
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G

Maintenance

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H
Drum brakes and linings (if equipped)	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Driveshaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J
Climate control air filter (if equipped)	R	Replace more frequently depending on the condition	C, E

Severe driving conditions

A : Repeated short distance driving

B : Extensive idling

C : Driving in dusty, rough roads

D : Driving in areas using salt or other corrosive materials or in very cold weather

E : Driving in sandy areas

F : More than 50 % driving in heavy city traffic during hot weather above 32°C (90°F)

G : Driving in mountainous areas

H : Towing a trailer

I : Driving for patrol car, taxi, commercial car or vehicle towing

J : Driving over 170 km/h (106 mile/h)

G040300APB

NORMAL MAINTENANCE SCHEDULE - DIESEL ENGINE

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	12.5	25	37.5	50	62.5	75	87.5	100
		Km×1,000	20	40	60	80	100	120	140	160
Drive belts *1		I	I	I	I	I	I	I	I	
Engine oil and engine oil filter *2		For Europe	R	R	R	R	R	R	R	
		Except Europe	Replace every 10,000 km (6,000 miles) or 12 months							
Tensioner/idler/damper pulley		Inspect when replacing the drive belt								
Air cleaner filter		I	R	I	R	I	R	I	R	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*1 : Adjust alternator and power steering (and water pump drive belt) and air conditioner drive belt (if equipped).

Inspect and if necessary correct or replace.

*2 : Check the engine oil level and leak every 500 km (350 miles) or before starting a long trip.

NORMAL MAINTENANCE SCHEDULE - DIESEL ENGINE (CONT.)

MAINTENANCE INTERVALS		Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	12.5	25	37.5	50	62.5	75	87.5	100
MAINTENANCE ITEM	Km×1,000	20	40	60	80	100	120	140	160	
Fuel filler cap				I			I			
Vacuum and crankcase ventilation hose		I	I	I	I	I	I	I	I	
Vacuum hose (for EGR & throttle body)		I	I	I	I	I	I	I	I	
Vacuum pump and vacuum hose		I	I	I	I	I	I	I	I	
Vacuum pump oil hose		I	I	I	I	I	I	I	I	
Fuel filter cartridge *3		For Europe	I	I	R	I	I	R	I	I
		Except Europe*4	R	R	R	R	R	R	R	R
Fuel lines, hoses and connections		I	I	I	I	I	I	I	I	
Cooling system		Inspect "Coolant level adjustment and leak" every day Inspect "Water pump" when replacing the drive belt or timing belt								

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*3 : This maintenance schedule depends on fuel quality. It is applicable only when using a qualified fuel < "EN590 or equivalent">. If the diesel fuel specification doesn't meet the EN590, it must be replaced more frequently. If there are some important safety matters like fuel flow restriction, surging, loss of power, hard starting problem etc, replace the fuel filter immediately regardless of maintenance schedule and consult an authorized HYUNDAI dealer for details.

*4 : If the diesel fuel specification don't meet the EN590, it must be replaced more frequently. HYUNDAI recommends "every 7,500km inspection, every 15,000km replacement".

NORMAL MAINTENANCE SCHEDULE - DIESEL ENGINE (CONT.)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	12.5	25	37.5	50	62.5	75	87.5	100
		Km×1,000	20	40	60	80	100	120	140	160
Engine coolant *5	For Europe	At first, replace at 100,000 km (62,500 miles) or 60 months: after that, replace every 40,000 km (25,000 miles) or 24 months *6								
	Except Europe	At first, replace every 48,000 km (30,000 miles) or 24 months: after that, replace every 40,000 km (25,000 miles) or 24 months *6								
Battery condition		I	I	I	I	I	I	I	I	
All electrical systems		I	I	I	I	I	I	I	I	
Brake lines, hoses and connections		I	I	I	I	I	I	I	I	
Brake pedal, clutch pedal (if equipped)		I	I	I	I	I	I	I	I	
Parking brake		I	I	I	I	I	I	I	I	
Brake/clutch fluid		I	R	I	R	I	R	I	R	
Disc brakes and pads		I	I	I	I	I	I	I	I	
Drum brakes and linings (if equipped)			I		I		I		I	

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

*5 : When adding coolant, use only a qualified coolant additive for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or engine damage.

*6 : For your convenience, it can be replaced prior to it's interval when you do maintenance of other items.

NORMAL MAINTENANCE SCHEDULE - DIESEL ENGINE (CONT.)

MAINTENANCE ITEM	MAINTENANCE INTERVALS	Number of months or driving distance, whichever comes first								
		Months	12	24	36	48	60	72	84	96
		Miles×1,000	12.5	25	37.5	50	62.5	75	87.5	100
		Km×1,000	20	40	60	80	100	120	140	160
Steering gear rack, linkage and boots			I	I	I	I	I	I	I	I
Drive shaft and boots			I	I	I	I	I	I	I	I
Tire (pressure & tread wear)			I	I	I	I	I	I	I	I
Front suspension ball joints			I	I	I	I	I	I	I	I
Bolt and nuts on chassis and body			I	I	I	I	I	I	I	I
Air conditioner refrigerant (if equipped)			I	I	I	I	I	I	I	I
Air conditioner compressor (if equipped)			I	I	I	I	I	I	I	I
Climate control air filter (if equipped)		For Europe	R	R	R	R	R	R	R	R
		Except Europe	Replace every 15,000 km (10,000 miles)							
Manual transaxle fluid (if equipped)			I	I	I	I	I	I	I	I

I : Inspect and if necessary, adjust, correct, clean or replace.

R : Replace or change.

G040400APB

MAINTENANCE UNDER SEVERE USAGE CONDITIONS - DIESEL ENGINE

The following items must be serviced more frequently on cars mainly used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and if necessary, adjust, correct, clean or replace

MAINTENANCE ITEM		Maintenance operation	Maintenance intervals	Driving condition
Engine oil and engine oil filter	For Europe	R	Every 10,000 km (6,200 miles) or 6 months	A, B, C, F, G,
	Except Europe	R	Every 5,000 km (3,000 miles) or 6 months	H, I, J, K, L
Air cleaner filter		R	Replace more frequently depending on the condition	C, E
Manual transaxle fluid (if equipped)		R	Every 100,000 km (62,500 miles)	C, D, E, G, H, I, K
Steering gear rack, linkage and boots		I	Inspect more frequently depending on the condition	C, D, E, F, G

MAINTENANCE ITEM	Maintenance operation	Maintenance intervals	Driving condition
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads, calipers and rotors	I	Inspect more frequently depending on the condition	C, D, E, G, H
Parking brake	I	Inspect more frequently depending on the condition	C, D, G, H
Drive shaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, J, K, L
Climate control air filter (if equipped)	R	Inspect more frequently depending on the condition	C, E

Severe driving conditions

A : Repeated short distance driving

B : Extensive idling

C : Driving in dusty, rough roads

D : Driving in areas using salt or other corrosive materials or in very cold weather

E : Driving in sandy areas

F : More than 50 % driving in heavy city traffic during hot weather above 32 °C (90 °F)

G : Driving in mountainous areas.

H : Towing a trailer

I : Driving for patrol car, taxi, commercial car or vehicle towing

J : Driving in very cold weather

K : Driving over 170 km/h (106 mile/h)

L : Frequently driving in stop-and-go conditions

EXPLANATION OF SCHEDULED MAINTENANCE ITEMS

G050100AHM

Engine oil and filter

The engine oil and filter should be changed at the intervals specified in the maintenance schedule. If the vehicle is being driven in severe conditions, more frequent oil and filter changes are required.

G050200AUN

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.

G050300AFD

Fuel filter (cartridge)

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 an authorized HYUNDAI dealer.

G050400APB

Fuel lines, fuel hoses and connections

Check the fuel lines, fuel hoses and connections for leakage and damage. Have an authorized HYUNDAI dealer replace any damaged or leaking parts immediately.



WARNING - Diesel only

Never work on the injection system with the engine running or within 30 seconds after shutting off the engine. High pressure pump, rail, injectors and high pressure pipes are subject to high pressure even after the engine stops. The fuel jet produced by fuel leaks may cause serious injury, if it touches the body. People using pacemakers should not move more than 30cm closer to the ECU or wiring harness within the engine room while the engine is running, since the high currents in the Common Rail system produce considerable magnetic fields.

G050600AUN

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.

G050700AUN

Vacuum crankcase ventilation hoses (if equipped)

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.

G050800AFD

Air cleaner filter

A Genuine HYUNDAI air cleaner filter is recommended when the filter is replaced.

G050900AUN

Spark plugs (for gasoline engine)

Make sure to install new spark plugs of the correct heat range.

G051000APB

Valve clearance (if equipped)

Inspect for excessive valve noise and/or engine vibration and adjust if necessary. An authorized HYUNDAI dealer should perform the operation.

G051100AHM

Cooling system

Check the cooling system components, such as the radiator, coolant reservoir, hoses and connections for leakage and damage. Replace any damaged parts.

G051200AUN

Coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

G051300AUN

Manual transaxle fluid (if equipped)

Inspect the manual transaxle fluid according to the maintenance schedule.

G051400AUN

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.

G051500AUN

Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

G051600AUN

Brake fluid

Check the 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.

G051700AUN

Parking brake

Inspect the parking brake system including the parking brake lever and cables.

G051800APA

Rear brake drums and linings (if equipped)

Check the rear brake drums and linings for scoring, burning, leaking fluid, broken parts, and excessive wear.

G051900AUN

Brake discs, pads, calipers and rotors

Check the pads for excessive wear, discs for run out and wear, and calipers for fluid leakage.

G052100AUN

Suspension mounting bolts

Check the suspension connections for looseness or damage. Retighten to the specified torque.

G052200AUN

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.

G052400AUN

Drive shafts and boots

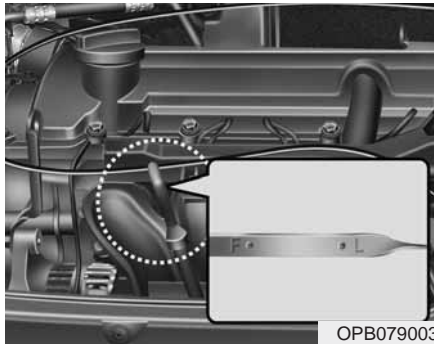
Check the drive shafts, boots and clamps for cracks, deterioration, or damage. Replace any damaged parts and, if necessary, repack the grease.

G052500AUN

Air conditioning refrigerant (if equipped)

Check the air conditioning lines and connections for leakage and damage.

ENGINE OIL



G060100AHM

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.

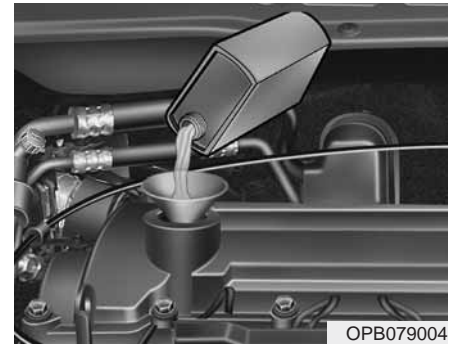
4. Pull the dipstick out, wipe it clean, and re-insert it fully.

⚠ 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.

⚠ CAUTION
Do not overfill the engine oil. It may damage the engine.

⚠ CAUTION - Diesel engine
Overfilling the engine oil may cause severe dieseling due to churning effect. It may lead to engine damage accompanied with abrupt engine speed increment, combustion noise and white smoke emission.



If it is near or at L, add enough oil to bring the level to F. **Do not overfill.**

Use a funnel to help prevent oil from being spilled on engine components.

Use only the specified engine oil. (Refer to "Recommended lubricants and capacities" in section 8.)

G060200APB

Changing the engine oil and filter

Have the engine oil and filter changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this section.

 WARNING

Used engine oil may cause skin irritation or cancer 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

G070000AHM

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.

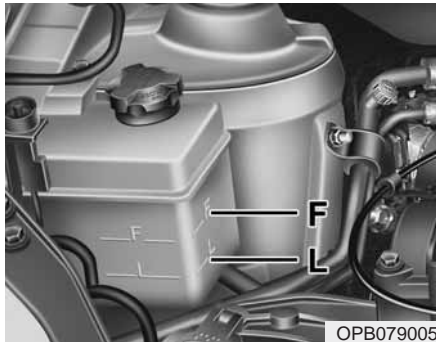
G070100AHM

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. Also, hot coolant or steam could cause serious personal injury.

(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 (MAX) and L (MIN) 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 (MAX), but do not overfill. If frequent coolant additions are required, see an authorized HYUNDAI dealer for a cooling system inspection.

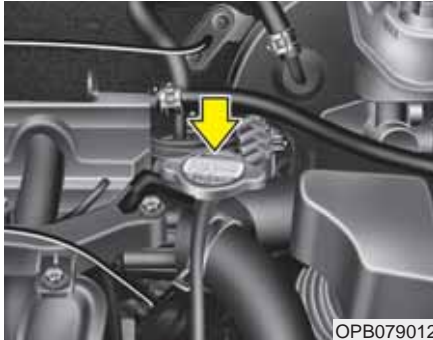
G070101AHM

Recommended engine coolant

- Use only soft (distilled) 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 Temperature	Mixture Percentage (volume)	
	Antifreeze	Water
-15°C (5°F)	35	65
-25°C (-13°F)	40	60
-35°C (-31°F)	50	50
-45°C (-49°F)	60	40



G070200APB

Changing the coolant

Have the coolant changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this section.

CAUTION

Put a thick cloth around the radiator cap before refilling the coolant in order to prevent the coolant from overflowing into the engine parts such as the generator.

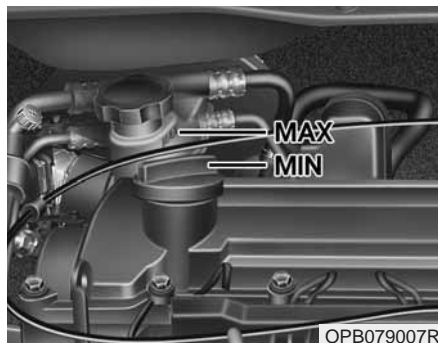
WARNING - Radiator cap

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.

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.

BRAKES/CLUTCH FLUID



G080100APB

Checking the brake/clutch fluid level

Check the fluid level in the reservoir periodically. The fluid level should be between MAX and MIN marks on the side of the reservoir.

Before removing the reservoir cap and adding brake/clutch fluid, clean the area around the reservoir cap thoroughly to prevent brake/clutch fluid contamination. 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 "Recommended lubricants and capacities" in section 8.)

Never mix different types of fluid.

⚠ 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.

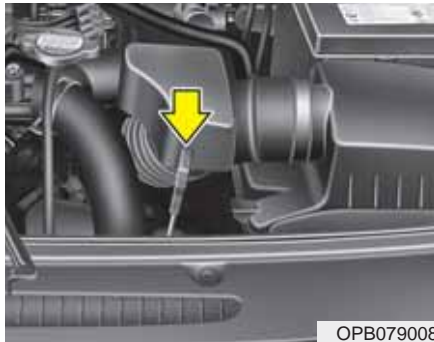
⚠ WARNING - Brake/clutch fluid

When changing and adding brake/clutch fluid, handle it carefully. Do not let it come in contact with your eyes. If brake/clutch fluid 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.

⚠ CAUTION

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 properly disposed. 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 the system parts.

AUTOMATIC TRANSAXLE FLUID (IF EQUIPPED)



OPB079008

G100100APB

Checking the automatic transaxle fluid level

The automatic transaxle fluid level should be checked regularly.

Keep the vehicle on the level ground with the parking brake applied and check the fluid level according to the following procedure.

1. Place the shift lever in N (Neutral) position and confirm the engine is running at normal idle speed.

2. After the transaxle is warmed up sufficiently (fluid temperature 70~80°C (158~176°F), for example by 10 minutes usual driving, move the shift lever through all the positions then place the shift lever in “N (Neutral) or P (Park)” position.



OHD076045N

3. Confirm that the fluid level is in “HOT” range on the level gauge. If the fluid level is lower, add the specified fluid in the fill hole. If the fluid level is higher, drain the fluid from the drain hole.
4. If the fluid level is checked in cold condition (fluid temperature 20~30°C (68~86°F) add the fluid to “C” (COLD) line and then recheck the fluid level according to the above step 2.

⚠ 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.

⚠ CAUTION

- *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 the parking brake and depress the brake pedal before moving the shift lever.

*** NOTICE**
“C” (COLD) range is for reference only and should NOT be used to determine the transaxle fluid level.

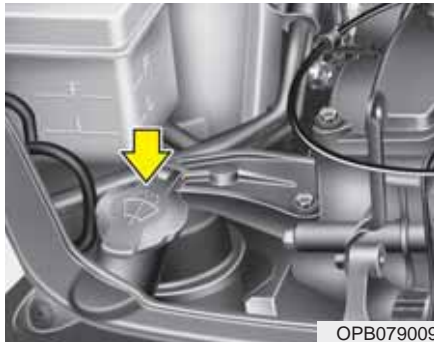
*** NOTICE**
A new automatic transaxle fluid should be red. The red dye is added so the assembly plant can identify it as automatic transaxle fluid and distinguish it from engine oil or antifreeze. The red dye, which is not an indicator of fluid quality, is not permanent. As the vehicle is driven, the 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 “Recommended lubricants and capacities” in section 8.)

G100200APB
Changing the automatic transaxle fluid

Have the automatic transaxle fluid changed by an authorized HYUNDAI dealer according to the Maintenance Schedule at the beginning of this section.

WASHER FLUID



OPB079009

G120100AUN

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.

⚠ 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.

PARKING BRAKE



OPB059006/H

G140100AFD

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 : 6~8 “clicks” at a force of 20 kg (44 lbs, 196 N).

FUEL FILTER (FOR DIESEL)

G150100APB

Draining water from the fuel filter

The fuel filter for diesel engine plays an important role of separating water from fuel and accumulating the water in its bottom.

If water accumulates in the fuel filter, the warning light comes on when the ignition switch is in the ON position.

CAUTION

If the water accumulated in the fuel filter is not drained at proper times, damages to the major parts such as the fuel system can be caused by water permeation in the fuel filter.

* NOTICE

It is recommended that water accumulated in the fuel filter should be removed by an authorized HYUNDAI dealer.

- Place a water trap under the fuel filter.
- Loosen the drain plug and drain water.
- After the water is drained, securely tighten the drain plug.
- After starting the engine, check to make certain the fuel filter warning light is off.

WARNING

Be sure to carefully wipe away any water drained out in this manner, because the fuel mixed in the water might be ignited and cause a fire.

G150300APB

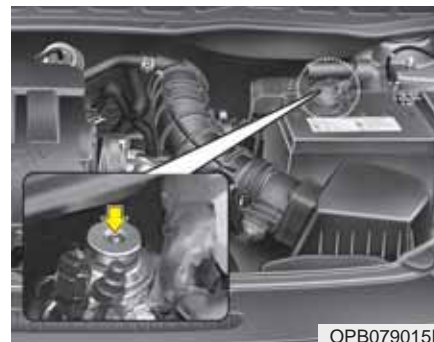
Extracting air from the fuel filter

If you drive until you have no fuel left or if you replace the fuel filter, be sure to extract air from the fuel system as it makes you difficult to start the engine.

1. Remove the air vent bolt on the fuel filter.
2. Pump up and down until the fuel flows out of the fuel outlet nipple.

* NOTICE

- Use cloths when you extract air so that the fuel is not sprayed.
- Clean the fuel around the fuel filter or the injection pump before starting the engine to prevent fire.
- Finally, check each part if the fuel is leaking.



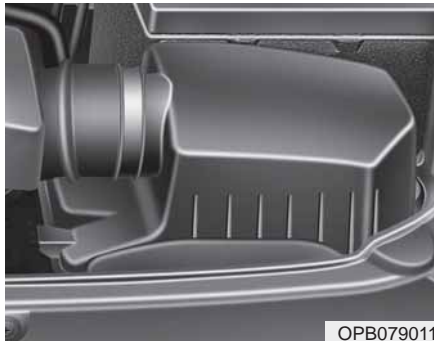
G150200AFD

Fuel filter cartridge replacement

* NOTICE

When replacing the fuel filter cartridge, use HYUNDAI genuine parts.

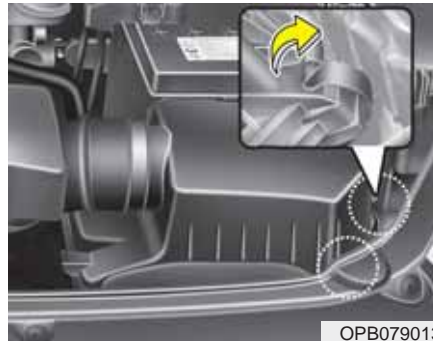
AIR CLEANER



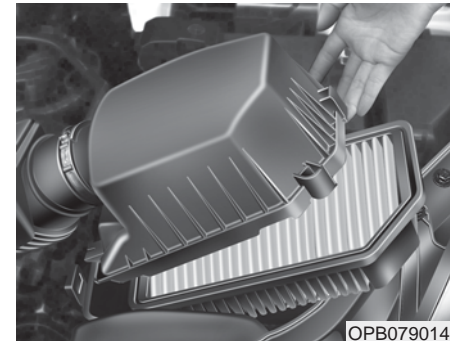
G160100AFD

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 Maintenance Schedule.

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.)

 **CAUTION**

- ***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 non-genuine parts could damage the air flow sensor or turbo charger.***

CLIMATE CONTROL AIR FILTER (IF EQUIPPED)

G170100APA

Filter inspection

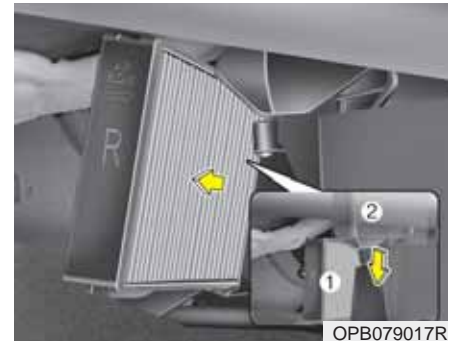
The climate control air filter should be replaced according to the Maintenance Schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.



G170200APB

Filter replacement

1. Remove the climate control air filter cover.



2. Pull out the air filter.



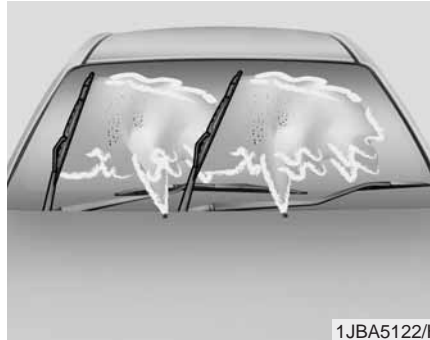
OPB079018

3. Replace the climate control air filter.
4. Reassemble in the reverse order of disassembly.

* NOTICE

When replacing the climate control air filter install it properly. Otherwise, the system may produce noise and the effectiveness of the filter may be reduced.

WIPER BLADES



1JBA5122/H

G180100AUN

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.



CAUTION

To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.

G180200AUN

Blade replacement

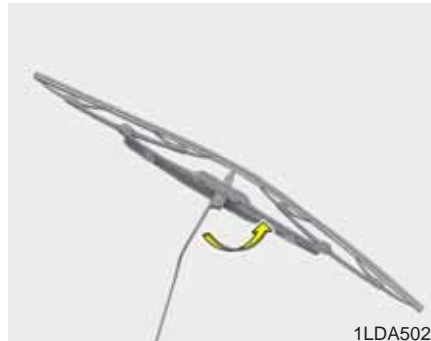
When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

CAUTION

To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

CAUTION

The use of a non-specified wiper blade could result in wiper malfunction and failure.



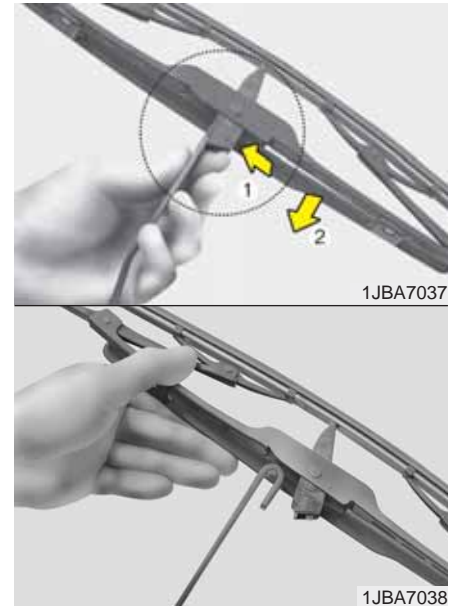
G180201AUN

Front windshield wiper blade**Type A**

1. Raise the wiper arm and turn the wiper blade assembly to expose the plastic locking clip.

CAUTION

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.



G180201APB

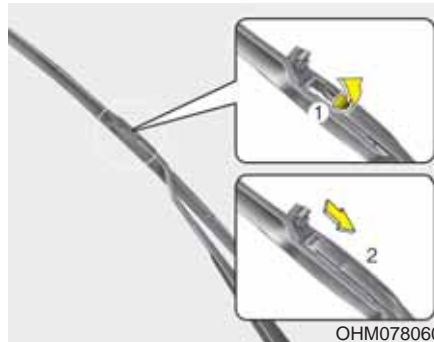
Type B

1. Raise the wiper arm.

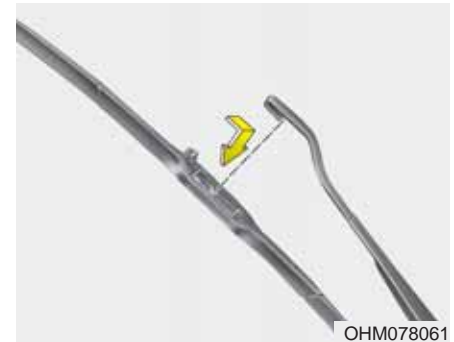


CAUTION

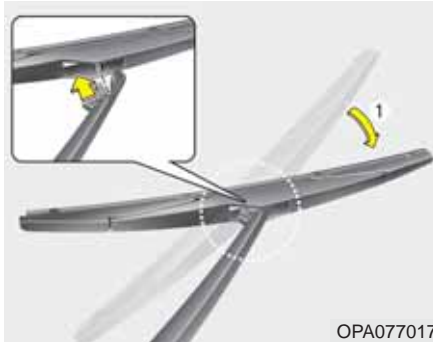
Do not allow the wiper arm to fall against the windshield, since it may chip or crack the windshield.



2. Lift up the wiper blade clip. Then pull down the blade assembly and remove it.



3. Install the new blade assembly in the reverse order of removal.



G180202AFD

**Rear window wiper blade
(if equipped)**

1. Raise the wiper arm and pull out the wiper blade assembly.



OPA077018

2. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place.
3. Make sure the blade assembly is installed firmly by trying to pull it slightly.

To prevent damage to the wiper arms or other components, have an authorized HYUNDAI dealer replace the wiper blade.

BATTERY







OPB079006

G190100AUN

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 dangers

-  Always read the following instructions carefully when handling a battery.
-  Keep lighted cigarettes and all other flames or sparks away from the battery.
-  Hydrogen, a highly combustible gas, is always present in battery cells and may explode if ignited.
-  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.

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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.



An inappropriately disposed battery can be harmful to the environment and human health. Dispose the battery according to your local law(s) or regulation.

(Continued)

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- 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.

G190200AUN

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.

 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 49°C (120°F).
- Wear eye protection when checking the battery during charging.

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- **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.**
- **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.**

G130300APB

Reset items

Items should be reset after the battery has been discharged or the battery has been disconnected.

- Auto up/down window (See section 4)
- Sunroof (See section 4)
- Multi display (See section 4)
- Climate control system (See section 4)
- Audio (See section 4)

TIRES AND WHEELS

G200100AUN

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.

G200200APB

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 1.6 km (one mile).

Recommended pressures must be maintained for the best ride, top vehicle handling, and minimum tire wear.

For recommended inflation pressure refer to "Tire and wheels" in section 8.



All specifications (sizes and pressures) can be found on a label attached to the vehicle.

⚠ WARNING - Tire underinflation

Severe underinflation (70 kPa (10 psi) 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 long periods at high speeds.

⚠ CAUTION

- *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.*

⚠ CAUTION

- *Warm tires normally exceed recommended cold tire pressures by 28 to 41 kPa (4 to 6 psi). 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 1.6 km (one mile) 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.*

G200300AUN

Checking tire inflation pressure

Check your tires once a month or more.

Also, check the tire pressure of the spare tire.

G200301AFD

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 1.6 km (1 mile).

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.

 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 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.**

G200400APB

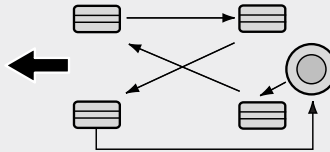
Tire rotation

To equalize tread wear, it is recommended that the tires be rotated every 12,000 km (7,500 miles) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

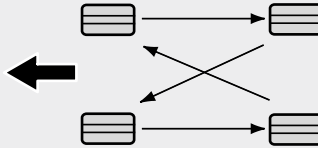
When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of tire. Replace the tire if you find either of these conditions. 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 "Tire and wheels" in section 8.

With a full-size spare tire (if equipped)



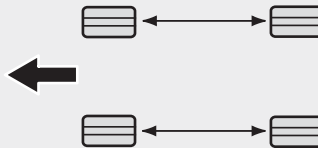
S2BLA790

Without a spare tire



S2BLA790A

Directional tires (if equipped)



CBGQ0707A

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.

⚠ 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.

G200500AUN

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.

⚠ CAUTION

Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.



G200600BFD

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 1.6 mm (1/16 inch) 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.

⚠ 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.

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- 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.
- The ABS works by comparing the speed of the wheels. Tire size can affect wheel speed. When replacing tires, all 4 tires must use the same size originally supplied with the vehicle. Using tires of a different size can cause the ABS (Anti-lock Brake System) and ESP (Electronic Stability Program) (if equipped) to work irregularly.

G200601AUN

Compact spare tire replacement (if equipped)

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.

G200700AUN

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.

 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 and odometer calibration, headlight aim and bumper height.

G200800AHM

Tire traction

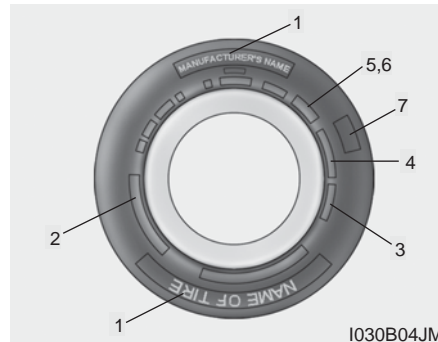
Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. Slow down whenever there is rain, snow or ice on the road, to reduce the possibility of losing control.

G200900AUN

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.



G201000AUN

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.

G201001AUN

1. Manufacturer or brand name

Manufacturer or Brand name is shown.

G201002APB

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 vehicle. 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.)

175/70R14 64T

175 - Tire width in millimeters.

70 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

14 - Rim diameter in inches.

64 - Load Index, a numerical code associated with the maximum load the tire can carry.

T - 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:

5.0JX14

5.0 - Rim width in inches.

J - Rim contour designation.

14 - Rim diameter in inches.

Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger car tire. 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	180 km/h (112 mph)
T	190 km/h (118 mph)
H	210 km/h (130 mph)
V	240 km/h (149 mph)
Z	Above 240 km/h (149 mph)

G201003AHM

3. *Checking tire life (TIN : Tire Identification Number)*

Any tires that are over 6 years old, based on the manufacturing date, (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 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 1608 represents that the tire was produced in the 16th week of 2008.

⚠ WARNING - Tire age

Tires degrade over time, even when they are not being used. Regardless of the remaining tread, we recommend that tires generally be replaced after six (6) years of normal service. Heat caused by not climates or frequent high loading conditions can accelerate the aging process. Failure to follow this Warning can result in sudden tire failure, which could lead to a loss of control and an accident involving serious injury or death.

G201004AEN

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.

G201005AUN

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.

G201006AUN

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.

G201007AEN

7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREADWEAR 200

TRACTION AA

TEMPERATURE A

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-a-half times (1½) as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

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. Those 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.

WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature -A, B & C

The temperature grades are A (the highest), B and C representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by 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.

FUSES

Blade type



Normal



Blown

Cartridge type



Normal

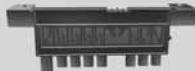


Blown

Multi fuse



Normal



Blown

OHDC078019

G210000APB

A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 2 (or 3) 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 melt.

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 multi fuse 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.**

⚠ CAUTION

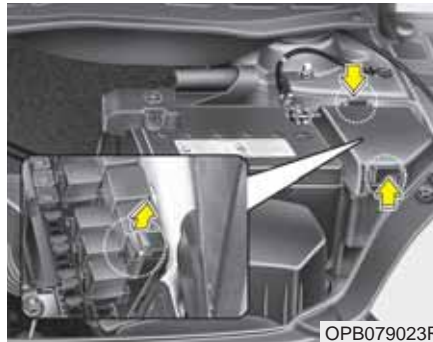
Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.



G210100APB

Instrument panel fuse replacement

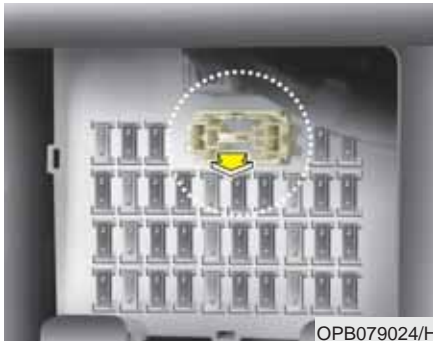
1. Turn the ignition switch and all other switches off.
2. Open the fuse panel cover.



3. Pull the suspected fuse straight out. Use the removal tool provided in the engine compartment fuse panel.
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 cigarette 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.



OPB079024/H

G210101AUN

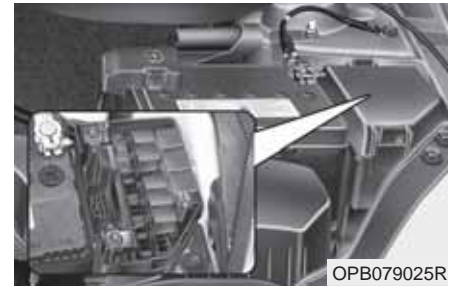
Memory fuse

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.

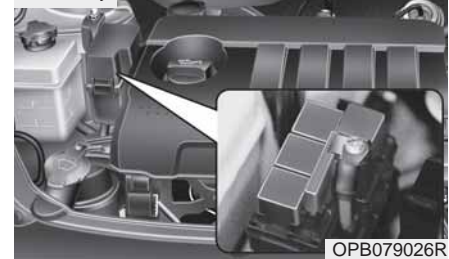
* NOTICE

- 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.



OPB079025R

Diesel only



OPB079026R

G210200APB

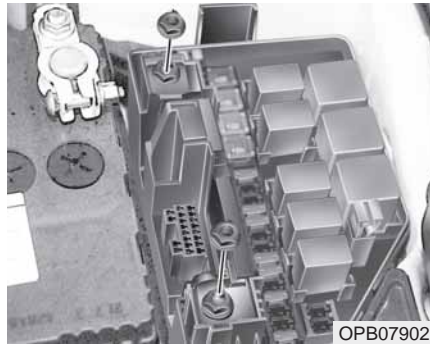
Engine compartment panel fuse replacement

1. Turn the ignition switch and all other switches off.
2. Remove the fuse box cover by pressing the tap and pulling the cover up.
3. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the engine compartment fuse panel.

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.

 **CAUTION**

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.



G210201APB

Main fuse (multi 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.

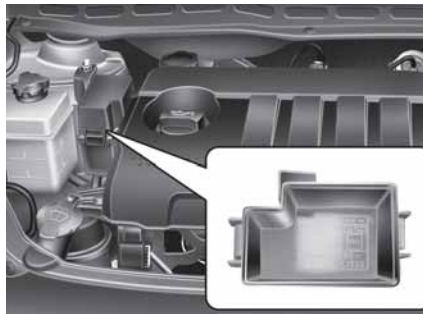
*** NOTICE**

If the main fuse is blown, consult an Authorized HYUNDAI Dealer.

G210300AFD

Fuse/Relay panel description

Inside the fuse/relay box covers, you can find the fuse/relay label describing fuse/relay name and capacity.

Instrument panel fuse panel**Engine compartment fuse panel****Diesel only**

OPB079028R/OPB079029R/OPB079030R

*** 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.

Instrument panel fuse panel

Description		Fuse rating	Protected component	
FUSE	FRT WIPER	25A	Front Wiper Motor, Multifunction Switch(Wiper Switch)	
	O/S MIR HTD	10A	ECM(M/T), PCM(A/T), A/C Control Module, Driver Power Outside Mirror, Passenger Power Outside Mirror	
	H/LP LH	10A	Head Lamp LH	
	POWER CONNECTOR	ROOM	10A	RR HTD Relay, Door Warning Switch, Instrument Cluster, RR HTD Relay, Door Warning Switch, Instrument Cluster, Trip Computer, Tire Pressure Monitoring Module, BCM, A/C Control Module, Luggage Lamp, Overhead Console Assembly, Front Room Lamp, Center Room Lamp
		AUDIO	20A	Audio
	P/WDW RH	25A	Power Window Main Switch, Driver Safety Power Window Module, Rear Power Window Switch RH, Passenger Power Window Switch(LHD)	
	P/WDW LH	25A	Power Window Main Switch, Driver Safety Power Window Module, Rear Power Window Switch RH, Passenger Power Window Switch(RHD)	
	S/HTD	15A	Passenger Seat Warmer Switch, Driver Seat Warmer Switch	
	RR WIPER	15A	Rear Wiper Motor, Multifunction Switch(Wiper Switch)	
	H/LP RH	10A	Head Lamp RH, Instrument Cluster(Head Lamp ILL.)	
	IGN 2	10A	Head Lamp Leveling Switch, Incar Sensor, BCM, A/C Control Module, Sunroof Control Module, Head Lamp LH/RH, E/R Fuse & Relay Box(FFHS Relay, DRL Relay, Blower Relay), DSL Fuse & Relay Box(PTC 2 Relay, PTC 3 Relay)	
	PCU	10A	Fuel Filter Warning Sensor, Air Flow Sensor, ECM(M/T), PCM(A/T)	
	STOP LP	15A	Stop Lamp Switch, Data Link Connector, P/WDW Relay	
	A/BAG	10A	Seat Belt Reminder Switch Module, SRS Control Module	
	HAZARD	15A	Hazard Switch, Hazard Relay	
	SAFETY P/W	15A	Driver Safety Power Window Module	
CLUSTER	10A	Trip Computer, Instrument Cluster(ILL.), BCM		

	Description	Fuse rating	Protected component
FUSE	TCU	10A	Over Driver Switch, Pulse Generator "A", Pulse Generator "B", Vehicle Speed Sensor
	IGN1	10A	Generator(KAPPA), EPS Control Module, Tire Pressure Monitoring Module
	ABS	10A	ESP Switch, Steering Angle Sensor, ABS Control Module, ESP Control Module, Yaw Rate Sensor, E/R Fuse & Relay Box(Multipurpose Check Connector)
	IGN COIL	15A	Ignition Coil(KAPPA), Ignition Coil #1~#4(GAMMA), Condenser(GAMMA)
	B/UP LP	10A	Transaxle Range Switch(GAMMA), Back-Up Lamp Switch
	A/BAG IND	10A	Instrument Cluster(A/BAG ILL.)
	T/SIG LP	10A	Hazard Switch
	TAIL LP LH	10A	DRL Relay, License Lamp, Rear Combination Lamp LH, Head Lamp
	TAIL LP RH	10A	Head Lamp RH, Rear Combination Lamp RH, Illuminations
	ACC	10A	Power Outside Mirror, Audio, Trip Computer
	C/LIGHT	15A	Cigarette Lighter
	RR FOG LP	10A	RR Fog Relay
	B/A HORN	15A	B/A Relay
	DR LOCK	20A	T/Gate Unlock Relay, DR Lock/Unlock Relay, Dead Lock Relay
	FRT FOG LP	10A	FRT Fog Relay
	FOLDING	10A	Power Outside Mirror Switch
	S/ROOF	20A	Sunroof Control Module
START	10A	ECM(DSL), E/R Fuse & Relay Box(Start Relay, B/Alarm Relay)	

Engine compartment main fuse panel (Gasoline engine)

Description		Fuse rating	Protected component
MULTI FUSE	BATT 2	50A	I/P Junction (P/WDW RELAY, Fuse (SAFETY P/W 15A, HAZARD 15A))
	BATT 1	VV	I/P Junction (TAIL RELAY, Fuse (S/ROOF 20A, FOLDING 10A, DR LOCK 20A, STOP LP 15A, B/A HORN 15A, RR FOG LP 10A, FRT FOG LP 10A, Power Connector (ROOM 10A, AUDIO 20A))
	C/FAN	30A	C/FAN HI Relay, C/FAN LOW Relay
	MAIN	125A	Generator, Fuse (ABS 1 40A, ABS 2 40A, RR HTD 40A, BLOWER 40A, MDPS 80A, A/CON 1 10A)
	ABS 2	40A	Multipurpose Check Connector, ABS Control Module, ESP Control Module
	ABS 1	40A	Multipurpose Check Connector, ABS Control Module, ESP Control Module
	RR HTD	40A	RR HTD Relay
	BLOWER	40A	Blower Relay
MDPS	80A	ESP Control Module	
FUSE	IGN 2	50A	Ignition Switch
	ECU A	30A	ECM(M/T), PCM(A/T), Engine Control Relay(Main relay)
	F/PUMP	20A	F/PUMP Relay
	IGN 1	40A	Ignition Switch
	HORN	10A	Horn Relay
	SNSR 1	10A	Camshaft Position Sensor, Canister Purge Control Solenoid Valve, Oxygen Sensor(Up,Down), Immobilizer Control Module, C/FAN LOW Relay, C/FAN HI Relay
	ECU B	10A	ECM(M/T), PCM(A/T)
	DRL	10A	Ground (BCM)
	ECU 1	20A	ECM(M/T), PCM(A/T)
	INJ	15A	Injector #1~#4, Idle Speed Control Actuator, A/CON Relay, Oil Control Valve(GAMMA)
	A/CON 2	10A	A/C Control Module
A/CON 1	10A	A/CON Relay	

Engine compartment main fuse panel (Diesel engine)

Description		Fuse rating	Protected component
MULTI FUSE	BATT 2	50A	I/P Junction (P/WDW RELAY, Fuse (SAFETY P/W 15A, HAZARD 15A))
	BATT 1	VV	I/P Junction (TAIL RELAY, Fuse (S/ROOF 20A, FOLDING 10A, DR LOCK 20A, STOP LP 15A, B/A HORN 15A, RR FOG LP 10A, FRT FOG LP 10A, Power Connector (ROOM 10A, AUDIO 20A))
	C/FAN	30A	C/FAN HI Relay, C/FAN LOW Relay
	MAIN	125A	Generator, Fuse (ABS 1 40A, ABS 2 40A, RR HTD 40A, BLOWER 40A, MDPS 80A, A/CON 1 10A)
	ABS 2	40A	Multipurpose Check Connector, ABS Control Module, ESP Control Module
	ABS 1	40A	Multipurpose Check Connector, ABS Control Module, ESP Control Module
	RR HTD	40A	RR HTD Relay
	BLOWER	40A	Blower Relay
	MDPS	80A	ESP Control Module
DSL	150A	DSL Fuse & Relay Box (Glow Relay, PTC 1 Relay, PTC 2 Relay, PTC 3 Relay)	
FUSE	IGN 2	50A	Ignition Switch
	ECU A	30A	ECM(M/T), PCM(A/T), Engine Control Relay(Main relay)
	F/HTR	20A	FFHS Relay
	IGN 1	40A	Ignition Switch
	HORN	10A	Horn Relay
	SNSR 1	10A	Camshaft Position Sensor, Canister Purge Control Solenoid Valve, Oxygen Sensor(Up,Down), Immobilizer Control Module, C/FAN LOW Relay, C/FAN HI Relay
	DRL	10A	Ground (BCM)
	ECU 2	10A	Fuel Pressure Regulator Valve
	ECU 1	20A	ECM
	INJ	15A	A/CON Relay, Camshaft Position Sensor, VGT Actuator, EGR Actuator, Immobilizer Control Module, DSL Fuse & Relay Box (Glow Relay, PTC 1 Relay)
	A/CON 2	10A	A/C Control Module
A/CON 1	10A	A/CON Relay	

Engine compartment sub fuse panel (Diesel engine)

Description		Fuse rating	Protected component
FUSE	GLOW	80A	Glow Relay, Air Heater Relay
	PTC 1	50A	PTC 1 Relay
	PTC 2	50A	PTC 2 Relay
	PTC 3	50A	PTC 3 Relay

LIGHT BULBS

G220000APB

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.

CAUTION

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.

CAUTION

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 driving in heavy 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.



G220100APB

Headlight, position light, turn signal light, and front fog light bulb replacement

- (1) Headlight (High/Low)
- (2) Position light
- (3) Front turn signal light
- (4) Front fog light (if equipped)



OHD076046

G220101AFD

Headlight bulb

- ⚠ 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)

(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.

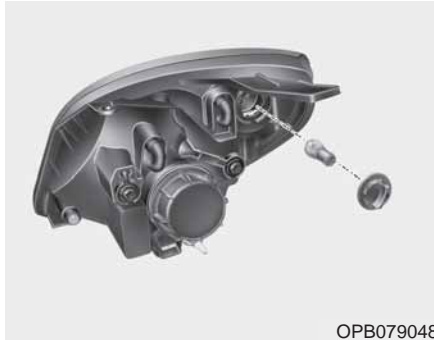


1. Open the hood.
2. Loosen the retaining bolts and remove the headlight assembly from the body of the vehicle.
3. Disconnect the power connector from the back of the headlight assembly.



4. Remove the headlight bulb cover by turning it counterclockwise.
5. Disconnect the headlight bulb socket-connector.
6. Unsnap the headlight bulb retaining wire by depressing the end and pushing it upward.
7. Remove the bulb from the headlight assembly.

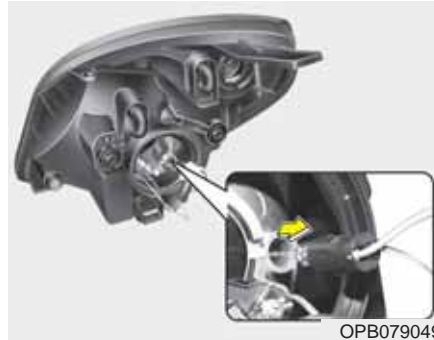
8. Install a new headlight bulb and snap the headlight bulb retaining wire into position by aligning the wire with the groove on the bulb.
9. Connect the headlight bulb socket connector.
10. Install the headlight bulb cover by turning it clockwise.
11. Connect the power connector to the back of the headlight assembly.
12. Reinstall the headlight assembly to the body of the vehicle.



G220102APB

Turn signal light

1. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
2. 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.
3. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
4. 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.



Position light

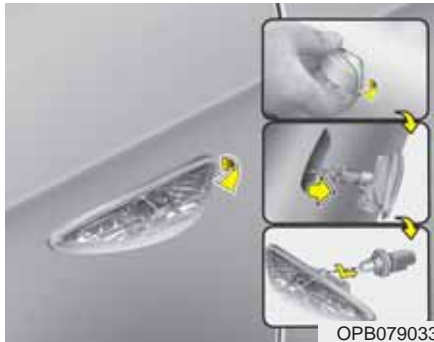
1. Remove the socket from the assembly by pulling it straight out.
2. Remove the bulb from the socket by pulling it out.
3. Insert a new bulb by inserting it into the socket.
4. Install the socket in the assembly by pushing it in.



G220103APB

Front fog light bulb replacement

1. Reach your hand into the back of the front bumper.
2. Disconnect the power connector from the socket.
3. Remove the bulb-socket from the housing by turning the socket counterclockwise until the tabs on the socket align with the slots on the housing.
4. Install the new bulb-socket into the housing by aligning the tabs on the socket with the slots in the housing. Push the socket into the housing and turn the socket clockwise.
5. Connect the power connector to the socket.
6. Reinstall the front bumper under cover.



OPB079033

F220200AUN

Side repeater light bulb replacement

1. Remove the light assembly from the vehicle by prying the lens and pulling the assembly out.
2. Disconnect the bulb electrical connector.
3. Separate the socket and the lens parts by turning the socket counterclockwise until the tabs on the socket align with the slots on the lens part.

4. Remove the bulb by pulling it straight out.
5. Insert a new bulb in the socket.
6. Reassemble the socket and the lens part.
7. Connect the bulb electrical connector.
8. Reinstall the light assembly to the body of the vehicle.



OPB079034

G220300APB

Rear combination light bulb replacement

- (1) Stop and tail light
- (2) Back-up light
- (3) Rear turn signal light
- (4) Rear fog light



1. Open the tailgate.
2. Loosen the light assembly retaining screws with a cross-tip screwdriver.
3. Remove the rear combination light assembly from the body of the vehicle.



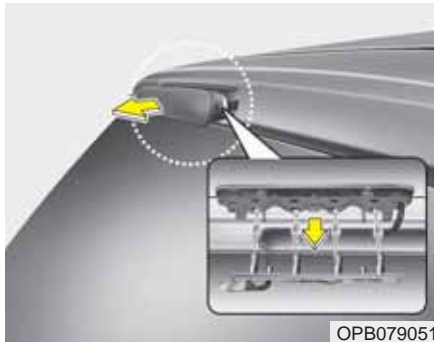
4. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
5. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket. Pull the bulb out of the socket.
6. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
7. 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.
8. Reinstall the light assembly to the body of the vehicle.



G220500APB

High mounted stop light replacement

1. Open the tailgate.
2. Remove the cap
3. Push the clip up that is in the hole. The high mounted stop light assembly will be pushed out.



OPB079051

4. Pull out the bulb module from the high mounted stop light assembly.
5. Replace the bulbs by pulling it out.
6. Reinstall in the reverse order.



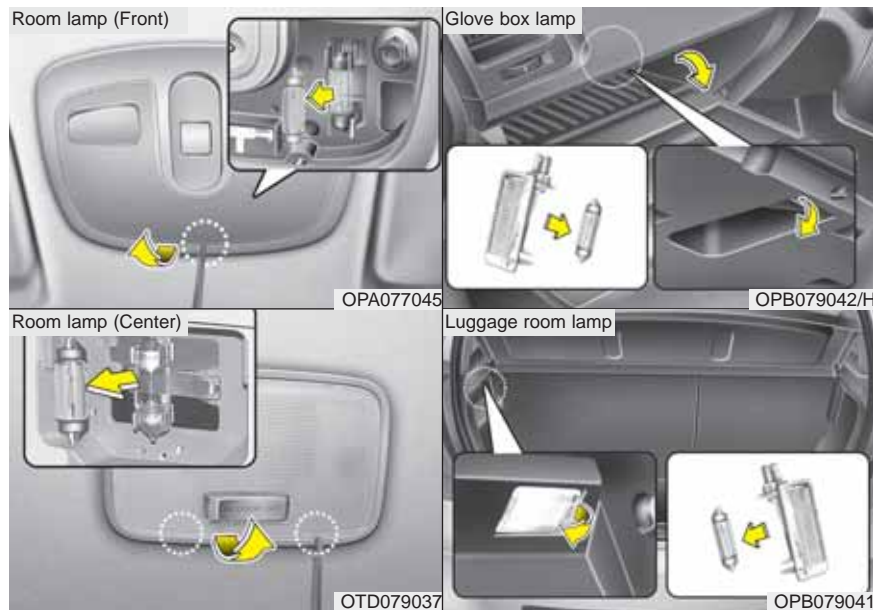
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G220400APB

License plate light bulb replacement

1. Using a flat-blade screwdriver, remove the light assembly from the body of the vehicle by prying the housing and pulling the assembly out.
2. Separate the socket and the lens part by turning the socket counterclockwise until the tabs on the socket align with the slots on the lens part.
3. Remove the bulb by pulling it straight out.

4. Insert a new bulb in the socket.
5. Reassemble the socket and the housing part.
6. Reinstall the light assembly to the body of the vehicle.



G220600AHM

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.

⚠ WARNING

Prior to working on the Interior Lights, ensure that the "OFF" button is pressed 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.

⚠ CAUTION

Be careful not to dirty or damage lens, lens tab, and plastic housings.

APPEARANCE CARE

Exterior care

G230101AUN

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.

G230102BUN

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 off-road 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.

⚠ CAUTION

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.

⚠ 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.



⚠ CAUTION

- ***Water washing in the engine compartment including high pressure water washing 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.



CAUTION

- *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.*

G230103AUN

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.

B230104AUN

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.

G230105APB

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 the doors, rocker panels, and frame members have drain holes that should not clog with dirt; trapped water in these areas can cause rusting.

 **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.

G230106AUN

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 high-speed car wash brushes.
- Do not use any acid detergent. It may damage and corrode the aluminum wheels coated with a clear protective finish.

G230107AHM

Corrosion protection

Protecting your vehicle from corrosion

By using the most advanced design and construction practices to combat corrosion, we produce 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 vehicle's surfaces with moisture that slowly evaporate.

Mud is particularly corrosive because it dries slowly and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain 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 vehicle 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 vehicle.

To help prevent corrosion

You can help prevent corrosion from getting started by observing the following:

Keep your vehicle clean

The best way to prevent corrosion is to keep your vehicle clean and free of corrosive materials. Attention to the underside of the vehicle 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 vehicle at least once a month and be sure to clean the underside thoroughly when winter is over.

- When cleaning underneath the vehicle, 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 vehicle in a damp, poorly ventilated garage. This creates a favorable environment for corrosion. This is particularly true if you wash your vehicle 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 and 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 vehicle.

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

G230201AHM

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 for the proper way to clean vinyl.



CAUTION

Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.

G230202AUN

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.



CAUTION

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.

G230203AUN

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.

G230204AUN

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.



CAUTION

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

G270000APB

The emission control system of your vehicle is covered by a written limited warranty. Please see the warranty information contained in the Service Passport 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 vehicle 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 Program (ESP) system)

- **To prevent the vehicle from misfiring during dynamometer testing, turn the Electronic Stability Program (ESP) system off by pressing the ESP switch.**
- **After dynamometer testing is completed, turn the ESP system back on by pressing the ESP switch again.**

G270100AUN

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.

G270200AUN

2. Evaporative emission control System

The Evaporative Emission Control System is designed to prevent fuel vapors from escaping into the atmosphere.

G270201AUN

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.

G270202AHM

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 warms up during ordinary driving, the PCSV opens to introduce evaporated fuel to the engine.

G270300AUN

3. Exhaust emission control system

The Exhaust Emission Control System is a highly effective system which controls exhaust emissions while maintaining good vehicle performance.

G270301AUN

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.

G270302AUN

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.



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.

- 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.

G270303AFD

Operating precautions for catalytic converters (if equipped)**⚠ 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.

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Specifications & Consumer information

DIMENSIONS

I010000APB

Item	mm (in)
Overall length	3940 (155.1)
Overall width	1710 (67.3)
Overall height	1490 (58.6)
Front tread	1505/1493 ^{*1} /1487 ^{*2} (59.2/58.7/58.5)
Rear tread	1503/1491 ^{*1} /1485 ^{*2} (59.1/58.7/58.4)
Wheelbase	2525 (99.4)

*1 : 185/60R15

*2 : 195/50R16

BULB WATTAGE

I030000APB

Light Bulb		Wattage
Headlights (High/Low)		60/55
Front turn signal		21
Position lights		5
Side repeater light*		5
Front fog light*		27
Rear fog light*		21
Stop and tail light		21/5
Rear turn signal light		21
Back-up light		16
High mounted stop light*		5
License plate light		5
Room lamps	Front	10
	Center*	8
Luggage room lamp*		5
Glove box lamp*		5

* : If equipped

TIRES AND WHEELS

I020000APB

Item	Tire size	Wheel size	Inflation pressure kPa (psi)				Wheel lug nut torque kg•m (lb•ft, N•m)
			Normal load		Maximum load ^{*1}		
			Front	Rear	Front	Rear	
Full size tire	175/70R14	5.0Jx14	230 (33)	230 (33)	250 (36)	250 (36)	9~11 (65~79, 88~107)
	185/60R15	5.5Jx15					
	195/50R16	5.5Jx16					
Compact spare tire*	T115/70D15	4.0T×15	420 (60)	420 (60)	420 (60)	420 (60)	

*1 : Except Japan

* : If equipped

RECOMMENDED LUBRICANTS AND CAPACITIES

I040000APB

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 ^{*1} *2 (drain and refill)	Gasoline Engine	1.2L	3.6 l (3.80 US qt.)	For Europe ^{*3} API Service SL or above, ACEA A3 or above
		1.4L/1.6L	3.3 l (3.49 US qt.)	Except Europe API Service SL or SM, ILSAC GF-3 or above
	Diesel Engine		5.3 l (5.60 US qt.)	API Service CH-4 or above, ACEA B4
Manual transaxle fluid			1.9 l (2.01 US qt.)	API Service GL-4 (SAE 75W-85, fill for-life)
Automatic transaxle fluid	Gasoline Engine	1.4/1.6L	6.8 l (7.19 US qt.)	DIAMOND ATF SP-III, SK ATF SP-III
Coolant	Gasoline Engine	1.2L	4.1 l (4.4 US qt.)	MIXTURE, Antifreeze with water (Ethylene glycol base coolant for aluminum radiator)
		1.4/1.6L	5.8 l (6.1 US qt.)	
	Diesel Engine		6.8 l (7.1 US qt.)	
Brake/Clutch fluid			0.7~0.8 l (0.7~0.8 US qt.)	FMVSS116 DOT-3 or DOT-4
Fuel			45 l (18 US gal.)	-

*1 Refer to the recommended SAE viscosity numbers on the next page.

*2 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.

*3 Use the engine oils approved by Hyundai Motor Company. Consult an authorized HYUNDAI dealer for details.

I040100AFD

Recommended SAE viscosity number

⚠ CAUTION

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.

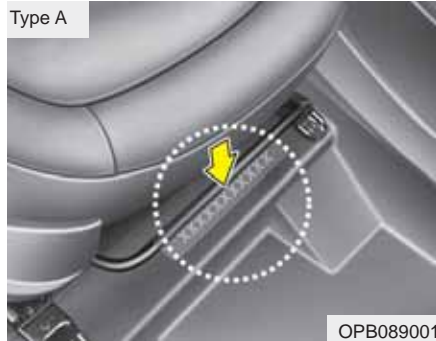
Temperature Range for SAE Viscosity Numbers										
Temperature	°C	-30	-20	-10	0	10	20	30	40	50
	(°F)	-10	0	20	40	60	80	100	120	
Gasoline Engine Oil *1 (For Europe)	0W-40, 5W-30, 5W-40									
Gasoline Engine Oil *2 (Except Europe)	20W-50									
	15W-40									
	10W-30									
	5W-20, 5W-30									
Diesel Engine Oil	15W-40									
	10W-30									
	5W-30									
	0W-30 *3									

*1. For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 0W-40, 5W-30, 5W-40 (API Service SL or above, ACEA A3 or above).

*2. For better fuel economy, it is recommended to use the engine oil of a viscosity grade SAE 5W-20, 5W-30 (API SL, SM / 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.

*3. It is only for extreme cold area and to be restricted by driving condition and area. (Especially, not recommended for sustained high loaded and high speed operation.)

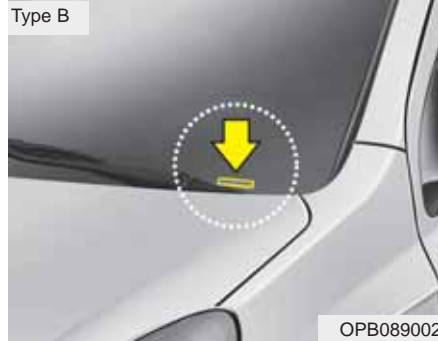
VEHICLE IDENTIFICATION NUMBER (VIN)



H010000APB-EA

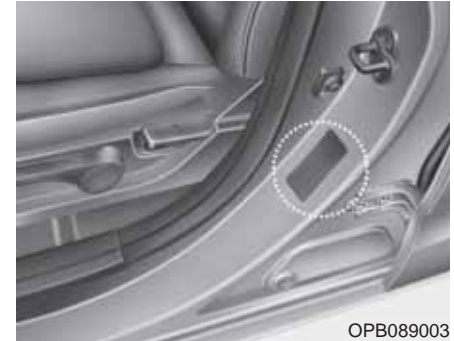
The vehicle identification number (VIN) is the number used in registering your vehicle and in all legal matters pertaining to its ownership, etc.

The number is punched below the driver's seat.



The VIN is also on a plate attached to the top of the dashboard. The number on the plate can easily be seen through the windshield from outside.

VEHICLE CERTIFICATION LABEL



H020000AUN

The vehicle certification label attached on the driver's (or front passenger's) side center pillar gives the vehicle identification number (VIN).

TIRE SPECIFICATION AND PRESSURE LABEL



OPB089004/H

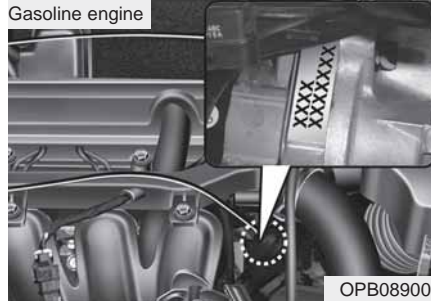
H030000APB

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 center pillar gives the tire pressures recommended for your vehicle.

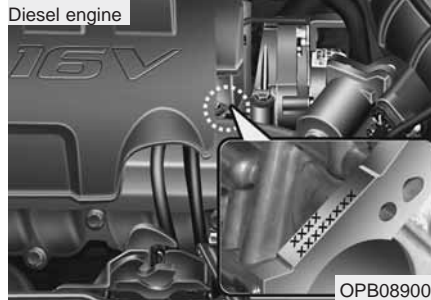
ENGINE NUMBER

Gasoline engine



OPB089005

Diesel engine



OPB089006

H04000AUN-EE

The engine number is stamped on the engine block as shown in the drawing.

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