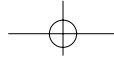
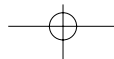


Recommended Fluids and Lubricants

Descriptions			Capacity	Specifications	
Engine Oil	Diesel Engine (D20DT)		≈ 7.5 ℓ	Quality class: Ssangyong genuine engine oil (Approved by MB Sheet 229.1 or 229.3) Viscosity: MB sheet No. 224.1	
	Diesel Engine (D27DT)		≈ 8.5 ℓ		
	Gasoline Engine (G32D)		≈ 9.0 ℓ		
Engine Coolant	Diesel Engine (D20DT)		10.5 ~ 11.0 ℓ	Ssangyong genuine coolant	
	Diesel Engine (D27DT)		11.0 ~ 11.5 ℓ	Anti-Freeze:SYC-310	
	Gasoline Engine (G32D)		11.5 ~ 12.0 ℓ	Anti-Freeze:Water = 50:50	
Automatic Transmission Fluid			≈ 8.0 ℓ	Ssangyong genuine oil (Shell ATF 3353 or Fuchs ATF 3353)	
Manual Transmission Fluid			4WD: ≈ 3.6 ℓ, 2WD: ≈ 3.4 ℓ	Ssangyong genuine oil (ATF DEXRON II)	
Transfer Case Fluid	Part Time		≈ 1.4 ℓ	Ssangyong genuine oil (ATF DEXRON III)	
	AWD		≈ 1.1 ℓ		
Axle Oil	Front	Non IOP	D20DT	≈ 1.4 ℓ	Ssangyong genuine oil (SAE 80W/90, API GL-5)
			D27DT	≈ 1.4 ℓ, ≈ 1.5 ℓ	
		IOP		≈ 0.78 ℓ	
	Rear	Rigid	D20DT ≈ 1.9 ℓ, D27DT ≈ 2.0 ℓ	Ssangyong genuine oil (SAE 80W/90, API GL-5)	
		IRS	≈ 1.5 ℓ	Ssangyong genuine oil (Shell synthetic fuel efficient GL75W/90)	
Brake / Clutch Fluid			As required	Ssangyong genuine oil (DOT4)	
Power Steering Fluid			≈ 1.0 ℓ	Ssangyong genuine oil (ATF DEXRON II or III)	

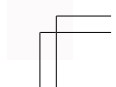
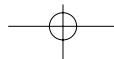
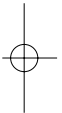
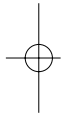
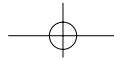


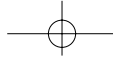
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FOREWORD

This manual has been prepared to acquaint you with the operation and maintenance of your **KYRON** and to provide important safety information. We urge you to read it carefully and follow the recommendations to help assure the most enjoyable, safe, and trouble-free operation of your vehicle.

When it comes to service, remember that your **SSANGYONG** dealer knows your vehicle best and is interested in your complete satisfaction.

We would like to take this opportunity to thank you for choosing **KYRON** and assure you of our continuing interest in your motoring pleasure and satisfaction.

This manual should be considered as a permanent part of your vehicle, and must remain with the vehicle at the time of resale.

 **SSANGYONG**
PYUNGTAEK, KOREA

IMPORTANT NOTICE

Please read this manual and follow the instructions carefully. Signal words such as "WARNING", "CAUTION" and "NOTE" have special meanings.

WARNING

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

NOTE

NOTE

NOTE indicates information to assist maintenance and instructions.

For product design changes

For a highest level of safety and quality, we are innovating our vehicles through our continual research and development efforts. As a result, the specifications are subject to change for the purpose of improvement without any notice and you may find material in this manual that does not apply to your specific vehicle.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication.

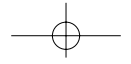
Ssangyong reserves the right to change specifications or design at any time without notice and without incurring any obligation whatsoever.

This vehicle may not comply with the standards or regulations of other countries. Before attempting to register this vehicle in any other country, check all applicable regulations and make any necessary modifications.

This manual describes options and trim levels available at the time of printing, and therefore, some of the items covered may not apply to your vehicle. If any doubt exists about any of the options or trim levels, please do not hesitate to contact your Ssangyong Distributor for information on the latest specifications.

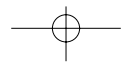
* : This asterisk in this manual signifies that an item of equipment is not included in all vehicles (model variants, engine options, models specific to one country, optional equipment, etc.).

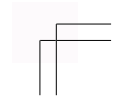
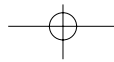
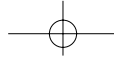
We would like to point out that non Ssangyong Genuine parts and accessories have not been examined and approved by Ssangyong, and in spite of continuous market product monitoring, we cannot certify the suitability nor the safety of such products whether they are installed or intended for fitment in our vehicles. Ssangyong is not liable for any damage caused by the use of non Ssangyong Genuine parts and accessories.

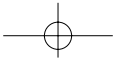


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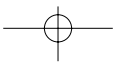
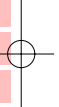
General

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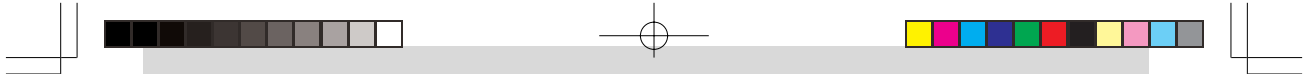
RECOMMENDED FLUIDS AND LUBRICANTS

	Descriptions		Capacity	Specifications	
0					
1	Engine Oil	Diesel Engine (D20DT)	≈ 7.5 ℓ	Quality class: Ssangyong genuine engine oil (Approved by MB Sheet 229.1 or 229.3) Viscosity: MB sheet No. 224.1	
2		Diesel Engine (D27DT)	≈ 8.5 ℓ		
3		Gasoline Engine (G32D)	≈ 9.0 ℓ		
4	Engine Coolant	Diesel Engine (D20DT)	10.5 ~ 11.0 ℓ	Ssangyong genuine coolant Anti-Freeze:SYC-310 Anti-Freeze:Water = 50:50	
5		Diesel Engine (D27DT)	11.0 ~ 11.5 ℓ		
6		Gasoline Engine (G32D)	11.5 ~ 12.0 ℓ		
7	Automatic Transmission Fluid		≈ 8.0 ℓ	Ssangyong genuine oil (Shell ATF 3353 or Fuchs ATF 3353)	
8	Manual Transmission Fluid		4WD: ≈ 3.6 ℓ, 2WD: ≈ 3.4 ℓ	Ssangyong genuine oil (ATF DEXRON II)	
9	Transfer Case Fluid	Part Time	≈ 1.4 ℓ	Ssangyong genuine oil (ATF DEXRON III)	
10		AWD	≈ 1.1 ℓ		
11	Axle Oil	Front	Non IOP D20DT	≈ 1.4 ℓ	Ssangyong genuine oil (SAE 80W/90, API GL-5)
12			D27DT	≈ 1.4 ℓ, ≈ 1.5 ℓ	
13		Rear	IOP	≈ 0.78 ℓ	
14			Rigid	D20DT ≈ 1.9 ℓ, D27DT ≈ 2.0 ℓ	
15		IRS	≈ 1.5 ℓ	Ssangyong genuine oil (Shell synthetic fuel efficient GL75W/90)	
16	Brake / Clutch Fluid		As required	Ssangyong genuine oil (DOT4)	
	Power Steering Fluid		≈ 1.0 ℓ	Ssangyong genuine oil (ATF DEXRON II or III)	

⚠ WARNING

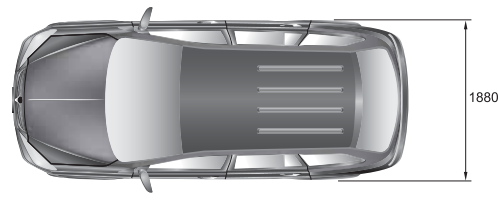
- Use only Ssangyong recommended fluids and lubricants.
- Keep the specified levels when adding or replacing the fluids.
- Do not mix any different types or brands of oils or fluids. This may cause damages.

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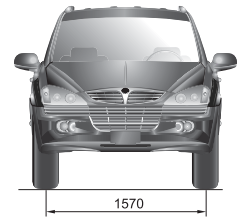


DIMENSIONS Unit: mm

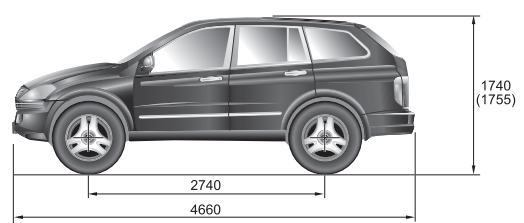
Top View



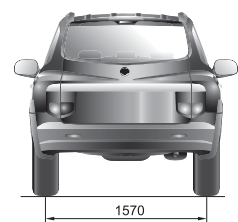
Front View



Side View



Rear View



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* () : Optional

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SPECIFICATIONS (I)

* () Optional

0	Descriptions	D20DT	D27DT	G32D
1	General Overall length (mm)	4,660	←	←
2	Overall width (mm)	1,880	←	←
3	Overall height (mm)	1,740 (1,755: with roof rack)	←	←
4	Gross vehicle weight (kg)	A/T 2,530	←	←
5		M/T 2,530	←	←
6	Curb vehicle weight (kg)	A/T 2WD: 1,920 / 4WD: 2,028	2,071 (AWD: 2,053)	2,046
7		M/T 2WD: 1,893 / 4WD: 2,001	2030	←
8	Fuel	Diesel	←	Gasoline
9	Fuel tank capacity (ℓ)	75	←	←
10	Engine Numbers of cylinders/ Compression ratio	4 / 17.5:1	5 / 18:1 (EURO IV:17.5:1)	6 / 10 : 1
11	Total displacement (cc)	1,998	2,696	3,199
12	Camshaft arrangement	DOHC	←	←
13	Max. power	A/T 141 PS / 4,000 rpm	165PS/4,000rpm	220 PS / 6,100 rpm
14		M/T 141 PS / 4,000 rpm	165PS/4,000rpm	←
15	Max. torque	A/T 310 Nm / 1,800 ~ 2,700 rpm	340 Nm / 1,800 ~ 3,250 rpm	312 Nm / 4,600 rpm
16		M/T 310 Nm / 1,800 ~ 2,700 rpm	340 Nm / 1,800 ~ 3,250 rpm	←
	Idle speed	780 ± 50 rpm	750 ± 20 rpm	700 ± 50 rpm
	Cooling system	Water- cooled / forced circulation	←	←
	Coolant capacity (ℓ)	10.5 ~ 11.0	11.0 ~ 11.5	11.5 ~ 12.0

0-4

SPECIFICATIONS (II)

* () Optional

Descriptions		D20DT	D27DT	G32D	0	
Engine	Max. oil capacity (ℓ) (when shipping)	8.2	9.2	9.8	1	
	Lubrication type	Gear pump, forced circulation	←	←	2	
	Turbocharger and cooling type	Turbocharger, air-cooled	←	—	3	
Manual Transmission	Operating type	Semi-Remote control, floor change type	←	—	4	
	Gear ratio	1st	4.315	←	—	5
		2nd	2.475	←	—	6
		3rd	1.536	←	—	7
		4th	1.000	←	—	8
		5th	0.807	←	—	9
Reverse	3.919	←	—	10		
Automatic Transmission	Model	Electronic, 5-speed	←	←	11	
	Operating type	Floor change type	←	←	12	
	Gear ratio	1st	3.951	3.595	3.951	13
		2nd	2.423	2.186	2.423	14
		3rd	1.486	1.405	1.486	15
		4th	1.000	1.000	1.000	16
		5th	0.833	0.831	0.833	
		Reverse 1st	3.147	3.167	3.147	
Reverse 2nd	1.930	1.926	1.930			

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SPECIFICATIONS (III)

* () Optional

0	Descriptions		D20DT	D27DT	G32D	
1	Transfer Case	Model	Part-time	Part-time (AWD)	AWD	
2		Type	Planetary gear type	←	←	
3		Gear ratio	High (4H) Low (4L)	1.000 : 1 2.483 : 1	← ← (AWD: -)	← -
4	Clutch (M/T)	Operating type	Hydraulic type	←	-	
5		Disc type	Dry single diaphragm type	←	-	
6	Power Steering	Type	Rack and pinion	←	←	
7		Steering angle	Inner	35.88°	←	←
8			Outer	32.08°	←	←
9	Front Axle	Drive shaft type	Ball joint type	←	←	
10		Axle housing type	Build-up type	Build-up type (IOP type)	IOP type	
11	Rear Axle	Drive shaft type	Semi-floating type	Semi-floating type (Ball joint type)	Ball joint type	
12		Axle housing type	Build-up type	Build-up type (IRS type)	IRS type	
13	Brake	Master cylinder type	Tandem type	←	←	
14		Booster type	Vacuum assisted booster type	←	←	
15		Brake type	Front wheels	Disc type	←	←
16			Rear wheels	Drum (disc)	←	Disc type
	Parking brake	Cable type: internal expansion	Cable type: internal expansion (EPB type)	←		

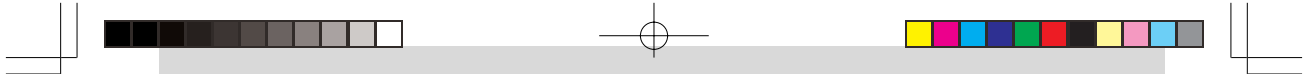
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SPECIFICATIONS (IV)

* () Optional

Descriptions		D20DT	D27DT	G32D	0
Suspension	Front suspension	Wishbone + coil spring	←	←	1
	Rear suspension	5-link + coil spring	5-link + coil spring (Multi link + coil spring) (EAS)	Multi link + coil spring (EAS)	2
Air Conditioner	Refrigerant (capacity)	R-134a (650 ± 30g)	←	←	3
Electrical	Battery type / Capacity (V-AH)	MF / 12 - 90	←	←	4
	Starter capacity (V-kW)	12 - 2.2	←	12 - 1.8	5
	Alternator capacity (V-A)	12 - 140 (12 - 115)	←	12 - 115	6
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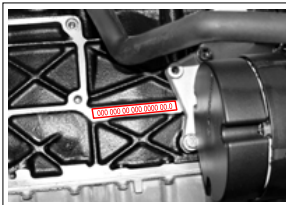
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VEHICLE IDENTIFICATION

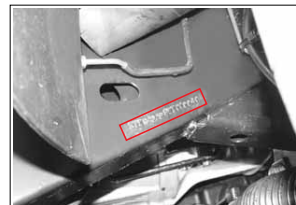
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1. Engine Number

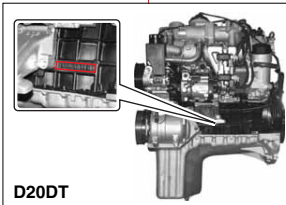
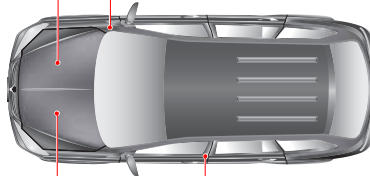


Gasoline Engine: The engine number is stamped on the lower area of cylinder block in exhaust manifold side.

2. Chassis Number

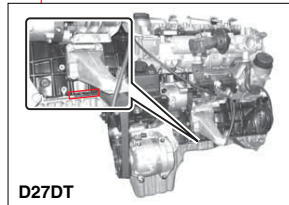


The chassis number is stamped on the frame behind the front right tire.



D20DT

Diesel Engine: The engine number is stamped on the lower area of cylinder block behind the Intake manifold.



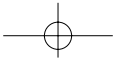
D27DT

3. Certification Label



The certification label is located on the driver's door sill.

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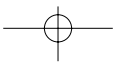
Safety Precautions

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CHECKS BEFORE STARTING A JOURNEY

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CHECKS BEFORE STARTING A JOURNEY

CHECK THE VEHICLE OUTSIDE

1. Check the tire inflation and wear.
2. Check the engine oil and other fluid/oil levels in the engine compartment.
3. Clean the windshield and rear glasses, side mirrors, and room mirrors.
4. Make sure that the engine hood and tailgate are properly closed.
5. Make sure that there are no obstacles in the danger area around the vehicle.

CHECK THE VEHICLE INSIDE

1. Make sure that all doors including the tailgate are properly closed.
2. Adjust the driver's seat for comfortable driving.
3. Adjust the outside and inside rear view mirrors.
4. Fasten the seat belts and be sure that all other occupants have fastened theirs properly.
5. Check operation of the parking brake.
6. Check that all appropriate warning lights are operating when turning the ignition key to the "ON" position.
7. Check the operations of the clutch pedal, accelerator pedal, and brake pedal.
8. Make sure that there are no obstacles in the danger area around the vehicle.

FUEL RECOMMENDATION

Commercially available high-quality fuels are suitable. Fuel quality has a decisive influence on the power output, driveability and life of the engine. The additives contained in the fuel play an important role in this connection. You should therefore use only high-quality fuels.

Diesel Engine

Use diesel fuel at 50 cetane rating or higher.

Gasoline Engine

Fuel with too low an octane number can cause pre-ignition (detonation). Ssangyong can not be held liable for resultant damage.

CAUTION

For correct octane rating setting and other use of gasoline (ex. Leaded), consult your Ssangyong Dealer.

CAUTION

Engine and exhaust system will be damaged.

- Do not use leaded fuel to the vehicle for unleaded fuel.
- Use the fuel with specified or higher Research Octane Number recommended for your country by Ssangyong.

It is not covered by warranty.

Do not Use Methanol

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

NOTE

The warranty policy will not cover damage of the fuel system and any performance problems that are caused by the use of methanol or fuel containing methanol.

Operation in Foreign Countries

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

- Observe all regulations regarding registration and insurance.
- Check that a suitable fuel is available.

Vehicle Fueling from Drums or Storage Containers

For safety reasons (particularly when using noncommercial fueling systems) fuel containers, pumps and hoses must be properly earthed.

Static electricity build up can occur under certain atmospheric and fuel flow conditions if unearthed hoses, particularly plastic, are fitted to the fuel dispensing pump.

It is therefore recommended that earthed pumps with integrally earthed hoses be used, and that storage containers be properly earthed during all noncommercial fueling operations.

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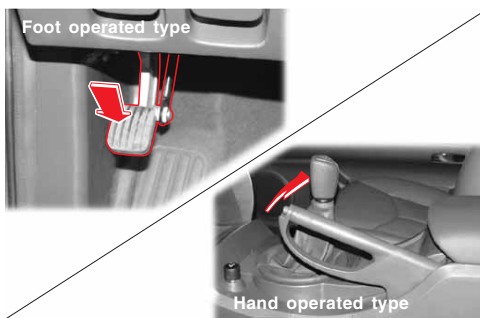
KYRON

SAFETY PRECAUTIONS

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STARTING THE ENGINE AND DRIVING OFF THE VEHICLE

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1. Apply the parking brake.
2. Make sure that there are no persons or obstacles in the dangerous area around the vehicle.

CAUTION

The engine with an automatic transmission equipped in a vehicle can be started only when the selector lever is at the “P” or “N” position. The engine with a manual transmission equipped in a vehicle can be started only when the clutch pedal is fully depressed.

Do not turn the ignition key to the “START” position while the engine is running. It could result in serious start motor damage.



3. • Automatic transmission equipped vehicle

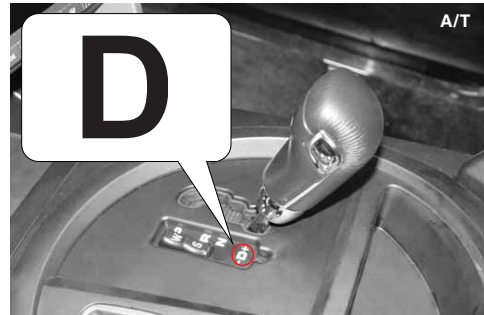
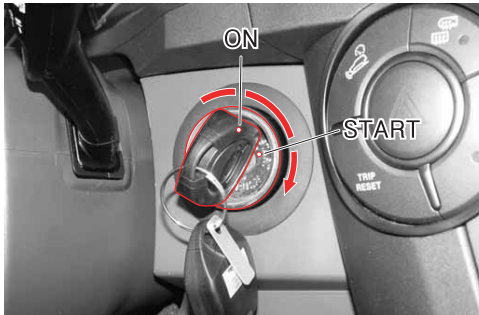
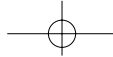
Move the selector lever to the “P” position and depress the brake pedal.

• Manual transmission equipped vehicle

Move the gearshift lever to the Neutral position and fully depress the brake pedal and the clutch pedal.

WARNING

Depress the brake pedal when the selector lever is at the “P” position. Never depress the accelerator pedal.



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4. • Diesel engine equipped vehicle:

Insert the ignition key into the key cylinder and turn it to the “ON” position without depressing the accelerator pedal. As soon as the glow indicator (⚡) goes out, turn the key to the “START” position to start the engine.

• Gasoline engine equipped vehicle:

Turn the ignition key to “ON” position and check the appropriate warning lights are operating.

5. Release the key when the engine starts. If your vehicle is equipped with a manual transmission and is engaged at neutral (N), it is ok to release the clutch pedal when the engine runs.

6. Warm up the engine in idling speed.

7. Make sure that there are no persons or obstacles in the danger area around the vehicle.

8. Release the parking brake.

9. • Automatic transmission equipped vehicle

Keep the brake pedal depressed and shift into the “-D+” position. Make sure that the position indicator of “D1” comes on. Slowly release the brake pedal to begin moving.

• Manual transmission equipped vehicle

Keep the brake pedal and clutch pedal depressed and shift into the “1” position. Release the brake pedal and gradually depress the accelerator while slowly releasing the clutch to begin moving.

SAFETY PRECAUTIONS

SAFETY PRECAUTIONS (I)

Ignition Key/Remote Control Key

1. Never use any duplicated key not provided by Ssangyong. It may cause a fire due to an overload in the electric circuit.
2. If you lose your keys, you have to replace the whole key set to prevent from theft.
3. Avoid shock to the transmitter in the remote control key and do not get it wet.
4. Only use the batteries with the same specifications to replace the discharged battery. Do not reverse the polarity.

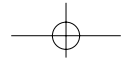
Turbocharger System (Diesel Engine Equipped Vehicle)

If the oil supply for the bearing assembly of the fast rotating turbo charger stops, the stop will cause the turbocharger to seize. Therefore, the following cares are necessary to prevent the seizure.

1. After starting the engine, let it run for approx. 2 minutes at idle speed (Avoid acceleration or driving off the vehicle).
2. After changing the engine oil and oil filter, start the engine and let it run for approx. 2 minutes at idle speed (Avoid acceleration or driving off the vehicle).
3. Do not stop the engine immediately after coming back from high load driving (such as high speed driving or driving on long slope). Let the engine run for approx. 2 minutes at idle speed to cool it down.

Air Bag

1. Never impact the air bag installations by hands or tools.
2. The air bag system serves as a supplement to the seat belt. Make sure that you and your passengers always fasten the seat belts properly even if the air bags are installed in the vehicle.
3. Do not place any objects on the air bag inflation location. You may be injured by those objects during deployment.
4. The air bag system should be inspected 10 years after installation regardless of its appearance and other conditions.
5. Repairs to the air bag system should be done only by a Ssangyong Dealer or Ssangyong Authorized Service Center.
6. Do not diagnose the circuit with a circuit tester. Do not attempt to modify any air bag components including the steering wheel, air bag mounting area, and harness.
7. Never install a child restraint in the front seat. The children on the restraint could be seriously injured by the air bag in a collision.
8. The deployed air bag unit should be removed from the vehicle and replaced with a new one.
9. When the air bag is deployed, the relevant components will be very hot, so do not touch them until they have cooled down.
10. A person who is smaller than 140 cm should sit in the rear.



SAFETY PRECAUTIONS (II)

Hazardous Materials

Do not store any flammable items or disposable lighters in the console box or other spaces. In hot weather, they can explode and cause a fire.

Genuine Parts

Always use only Ssangyong genuine parts for replacement. Ssangyong is not liable for any damage caused by the use of non-Ssangyong genuine parts and accessories.

Tire

1. Be sure to use the same size and type of tires from the same manufacturer on all wheels. Otherwise, damage can be caused to the powertrain.
2. Keep the specified tire inflation pressure.
3. Make sure that the spare tire is ready for use at any time. After installing the spare tire on a wheel, do not drive for a long distance. Instead, visit a nearby dealer or tire shop to replace the spare tire with a regular tire for driving.
4. Always check the tire surface for damage and uneven wear before driving and replace it if needed.
5. Using tires of different specifications may cause high fuel consumption, long stopping distance, vehicle body vibration, heavy steering operation, and poor ABS operation.

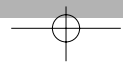
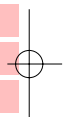
Power Window

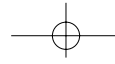
1. When you operate the rear windows from the driver's seat while a child sits in the rear, make sure that no body part of the child is between the window and the window frame.
2. When carrying children in the rear seat, press the rear door window lock switch to make the rear door switches inoperative.
3. Make sure that all passengers have their body parts such as hands inside the vehicle.
4. When closing the windows, be aware of safety conditions before operation.

Glass Care

1. Be careful not to damage the rear heated wire and diversity antenna when cleaning the rear glass.
2. Do not install any sunshield on the windshield glass and rear glass. It may adversely affect the rear heated wire and receiving sensitivity of the antenna.
3. The rain and automatic light sensors are installed on the upper middle front of the windshield (if equipped). If these sensors are contaminated or covered with various coating sprays, the automatic rain sensing wipers and lights may not work properly.

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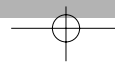
SAFETY PRECAUTIONS (III)

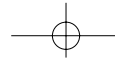
Child Restraint

When transporting infants or small children, an appropriate child restraint system should always be used. The child restraint system should be appropriate for your child's weight and height and properly fit the car's seat. Accident statistics indicate that children are safer when properly restrained in the rear seat rather than in the front seat.

- WARNING**
- Infants and small children should always be restrained in an infant or child restraint.
 - NEVER INSTALL A REAR-FACING CHILD RESTRAINT IN THE FRONT SEAT WITH FRONT PASSENGER AIRBAG.
 - A child in a rear-facing child restraint installed in the front seat can be seriously injured if the front passenger air bag inflates. Secure a rear-facing child restraint in the rear seat.
 - A front-facing child restraint should be secured in the rear seat whenever possible. If installed in the front passenger seat, adjust the seat as far back as it will go.
 - When installing a child restraint system, follow the instructions provided by the manufacturer.
 - When not in use, keep your child restraint system secured with a seat belt or remove it from the vehicle.

- WARNING**
- Do not hold a child while riding in a vehicle.
 - Never let a child stand or kneel on any seat.
 - Do not allow a child in the cargo areas while the vehicle is moving.
 - Children who have outgrown child restraint systems should sit in the rear seat and be restrained with the seat belt. If child's seating position has a shoulder belt which is on or very close to the face or neck, move the child close to the center of the vehicle, slightly inboard of the shoulder belt, or move the child to a position without a shoulder belt if possible.
 - Please note that the three point seat belt is designed for a person who is taller than 140 cm.





SAFETY PRECAUTIONS (IV)

Starting the Engine

1. Turn the ignition key to the “ON” position and wait until the glow indicator goes out. After then, turn the ignition key to the “START” position and hold it until the engine starts.
2. Even if the engine does not start, do not hold the ignition key at the “START” position for more than 10 seconds.
3. If the engine does not start, wait 10 seconds before trying again.
4. If the engine fails to start, turn the key back to the “LOCK” position and wait for 10 seconds.
5. Do not turn the ignition key to the “START” position while the engine is running.
6. The engine in an automatic transmission equipped vehicle can be started only when the selector lever is at the “P” or “N” position.
The engine in a manual transmission equipped vehicle can be started only when the clutch pedal is fully depressed.
7. Do not leave the ignition key at the “ON” or “ACC” position when the engine is not running. This could cause battery discharge.

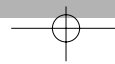
Warming Up the Engine

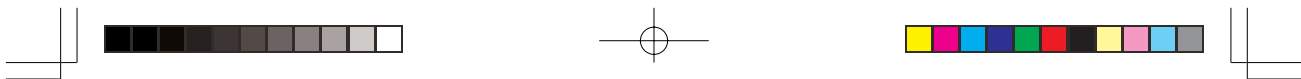
1. It is recommended to drive off after warming up the engine. Driving immediately after starting the engine may decrease the engine’s life expectancy. Warm up the engine before moving your vehicle.
 2. Do not warm up the engine excessively. Warm up the engine just until the coolant temperature gauge begins to move.
 3. Excessive engine warming increases the fuel consumption and air pollution. An optimized warming up time is approx. 2 minutes.
- ※ Do not accelerate the engine during the warming up period.

Driving the Automatic Transmission Equipped Vehicle

1. Keep the brake pedal depressed and shift the gear selection lever into the “-D+” position. Make sure that the “D1” light is on the instrument cluster.
Drive off the vehicle by releasing the brake pedal slowly.
2. To avoid any possible damage to the automatic transmission, do not abruptly drive off or accelerate the vehicle after shifting the gear selection lever into the “-D+” position. Especially on a hill, move the lever to the “-D+” position with the brake pedal depressed and wait for a couple of seconds until the position indicator of “D1” is on the instrument cluster.
3. Your vehicle may move backward on a steep hill even if the shift lever is engaged into the “-D+” position. Therefore, always depress the brake pedal when you need to stop on such a hill.

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SAFETY PRECAUTIONS (V)

Cautions While Driving

1. Do not turn off the engine while the vehicle is in motion. The power steering function and the brake assist function will be deactivated.
2. Do not attempt to adjust the driver's seat, rear view mirrors, or steering wheel while driving. Adjustments should be done before driving.
3. While driving, do not depress the brake pedal when the accelerator pedal is depressed. Otherwise, the response from the accelerator pedal may be delayed. This symptom is the safety function to protect the vehicle's drive system. This symptom can be eliminated if you depress and release the accelerator pedal once when the brake pedal is not depressed.
4. Do not operate the steering wheel abruptly. This will cause unstable driving situations and can end with an unexpected accident.

Abrupt Start, Acceleration and Stop

1. Avoid abrupt starts, acceleration or stops. It may cause high fuel consumption or an accident.
2. Gently accelerate and decelerate the engine.

Fade

Reduction or loss in braking force due to loss of friction between the brake pads and disc, caused by heat buildup through repeated or prolonged brake application.

Engine Brake

When driving down a long slope, use the engine brake effect by downshifting the transmission in steps according to the driving conditions while using the service brake. An excessive operation of the service brake could result in a "Fade" or "Vapor Lock" effect.

Stopping and Parking the Vehicle

1. Never leave infants and children unattended in the vehicle with the doors locked. They can move the vehicle unexpectedly. They can be suffocated in especially hot weather.
2. When parking the vehicle on a hilly road, apply the parking brake and chock the blocks under the wheels. Place the gear selector lever to the "P" position (automatic transmission equipped vehicle).
3. If possible, do not stop and park the vehicle on the steep road.

Extinguisher

Keep it ready for use at any time. Be familiar with how to use it. For more information, read the label on the surface of the fire extinguisher.

Vapor Lock

When the brake is excessively applied on a downhill, some bubbles can be formed in the brake cylinder or in brake lines. Because of these bubbles, hydraulic braking pressure cannot be transferred to breaking units of the vehicle despite the fully depressed brake pedal.

DIRECT INJECTION TYPE DIESEL ENGINE

CAUTIONS FOR DIRECT INJECTION TYPE DIESEL ENGINE (I)

Direct Injection (DI) Type Diesel Engine

Compared to Indirect Injection (IDI) Type Diesel Engine that uses a mechanical fuel injection system, a Direct Injection (DI) Type Diesel Engine controls the amount of injected fuel and the fuel injection timing electronically. This advanced engine enhances the output power and reduces the noxious exhaust gas (CO, HC, NOx...). Because the Direct Injection Diesel Engine is operated by high pressure (1,600 bars), any removal, modification or service of the engine may contaminate the inside of the system and cause the system to malfunction. In that case, the malfunction and any related systems are not under warranty of this company.

Warning for Using Poor Quality Fuel

The fuel system in a DI engine equipped vehicle has many precisely machined components. Using poor quality fuel could result in serious damage to the engine due to the water or impurities in the fuel.

Never use the poor quality fuel.

System Safety Mode

When the vehicle has a system error, the vehicle operates in safety mode to maintain minimum driving conditions and to prevent the system from being damaged. In this mode, the engine driving force may be decreased or the engine may stall. When this happens, have the system checked at a Ssangyong Dealer or Ssangyong Authorized Service Center.

Supplementary Heating Device

- FFH (Fuel Fired Heater)

This supplementary heater is a fuel burning type and improves the heating effect by increasing the engine coolant temperature.

- PTC (Positive Temperature Coefficient)

This supplementary heater is an electrical air heating type and installed on the heater outlet port. This device improves the heating effect by increasing the temperature of flowing air into the passenger room.

FFH Operation

The FFH system operates up to more than 2 minutes to burn the residual fuel inside the system when stopping the engine during its operation.

Therefore, a certain period of FFH operation after stopping the engine is not a malfunction.

In an initial operating stage, the fuel pump generates the operating sound and the FFH heater produces white smoke.

These are normal states to fill the fuel into the FFH fuel line.

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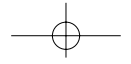
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⚠ CAUTIONS FOR DIRECT INJECTION TYPE DIESEL ENGINE (II)

Engine Check Indicator

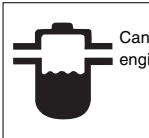


The Engine check indicator on the instrument cluster comes on when the fuel or major electronic systems of the engine are not working properly. As a result, the engine's power output may decrease or the engine may stall. If this happens, please visit the nearest Ssangyong dealer or authorized service operator.

⚠ WARNING

- When engine check warning light comes on, immediately stop driving and have the engine system checked at a Ssangyong Dealer or Ssangyong Authorized Service Center.
- Drain the water from fuel filter & water separator immediately after the water separator warning light comes on.
- The fuel system in the engine may get seriously damaged if you keep driving while the warning light is on.

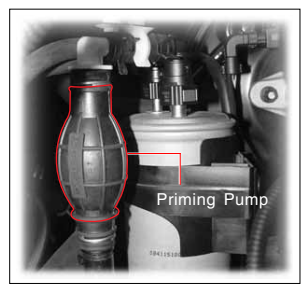
Water Separator Warning Light



Can be performed when engine oil is changed

When the water level inside of the water drain in the fuel filter exceeds a certain level, this warning light and an alarming sound are activated. In addition, the driving force of the vehicle decreases. If this happens, immediately drain the water from the fuel filter. Please refer to Chapter 5 "How to drain the water from the fuel filter" in this manual.

Priming Pump Operating Conditions



1. When completely consumed the fuel
 2. After draining the water from the fuel filter
 3. After replacing the fuel filter
- If this happens, pump fuel until the priming pump is fully filled. Then, start the engine.



Ignition Key, Remote Control Key

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TABLE OF CONTENTS

- Remote Control Key* and Ignition Key 2-2
- Remote Control Key Functions 2-4
- Key Functions 2-6
- Immobilizer System* 2-8
- Opening and Closing the Doors
with Ignition Key 2-10
- Theft Deterrent System 2-11

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REMOTE CONTROL KEY* AND IGNITION KEY

0 Door Lock Button

1 Lock (briefly press)

- If you press this button briefly, all doors and the tailgate are locked and the theft deterrent mode is activated.
- When the theft deterrent mode is activated, the hazard warning flashers blink twice.

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9 Door Unlock/Panic Button

10 1. Unlock (briefly press)

- If you press this button briefly, all doors and the tail gate are unlocked and the theft deterrent mode is deactivated.
- When the deterrent mode is deactivated, hazard warning flashers blink once.

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13 2. Panic function (press and hold)

- If you are in your vehicle and feel threatened while the ignition key is inserted into the key switch, you may activate the alarm to call attention. If you press this button, the warning siren will sound for approx. 27 seconds.
- The panic function will stop when any of the buttons on the remote control key is pressed.



PANIC BUTTON

(operative only when the ignition key is inserted)

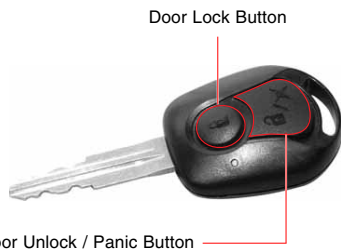
FUNCTIONS OF IMMOBILIZER

Immobilizer Function

The immobilizer is designed to prevent the possibility of vehicle theft by allowing only authorized keys to start the engine. The same code is encrypted in the transponder inside of the key and in the Engine Control Unit (ECU). When the key is inserted and turned to the "ON" position, the ECU checks the code from the key and allows the engine to start only when the two codes are matched.

CAUTION

- The key and the immobilizer antenna coil should be avoided from any electronic or magnetic equipment which may interfere with the transponder. This may cause malfunctions of the immobilizer function of the key.



SIMULTANEOUS OPERATIONS OF ROOM LAMPS

The front and center room lamps come on for 30 seconds when the unlock button on the remote control is pressed and hold. The lamps immediately go off when the remote lock button is pressed.

AUTOMATIC DOOR LOCKING

If a door is not opened within 30 seconds after unlocking the door with the remote control key, all the doors will be locked automatically.

NOTE

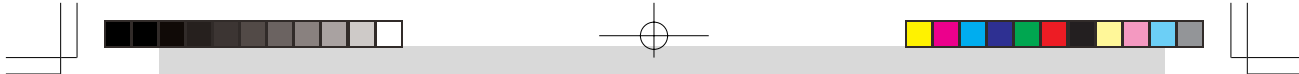
- Standard key does not have the remote control function.
- In case of the remote control key, some keys come with the immobilizer and battery as an optional package

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KYRON

IGNITION KEY, REMOTE CONTROL KEY

2-3



REMOTE CONTROL KEY FUNCTIONS

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PANIC BUTTON

1. Panic Function

- If you are in your vehicle and feel threatened while the ignition key is inserted into the key switch, you may activate the alarm to call attention. If you press this button, the warning siren will sound for approx. 27 seconds.
- The siren will stop when any of the buttons on the remote control key is pressed.

NOTE

The alarm sounds only when the ignition key is inserted into the key switch hole.

CAUTION

- The doors cannot be locked by remote control if they are not closed.
- The electronic device inside the remote control is very susceptible to moisture or heat. Please avoid any hot or humid places to minimize any malfunctions.

DOOR LOCK/UNLOCK BUTTON

1. Lock (Briefly Press)

- If you press this button, all doors are locked and the theft deterrent mode is activated.
- When the theft deterrent mode is activated, the emergency hazard lights blink twice.

2. Unlock (Press and Hold)

- If you press and hold this button for about 2 seconds, it unlocks all doors and releases the theft deterrent mode.
- When the deterrent mode is deactivated, the emergency hazard lights blink once.
- The front and center room lamps come on for 30 seconds when the doors are unlocked with the remote control key.

BATTERY REPLACEMENT

When the operational distance noticeably decreases or the remote control does not work occasionally, replace the battery with a new one.

Battery Specifications

Model	CR 2032
Amount	One

CAUTION

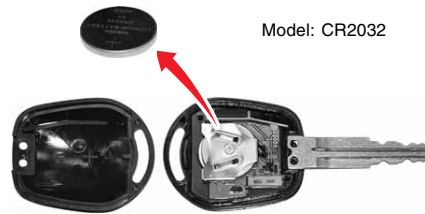
- Use only the specified battery.
- Make sure that the battery is installed in correct direction.

Battery Replacement

1. Unscrew two screws from the rear cover.



2. Pry off the cover by using a small flat screwdriver.



3. Remove the battery and insert a new one.

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KEY FUNCTIONS

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ACC Position

- Allows operation of some electrical accessories with the engine off.
- Unlock the steering wheel.
- The ignition key cannot be removed.

ON Position

- The engine runs and all electrical accessories can be used.
- The steering wheel is unlocked.

LOCK Position

- The ignition key can only be inserted or withdrawn.
- The steering wheel can be locked.

START Position

- Engages the starter. After the engine starts, release the key and it will automatically return to the "ON" position.

Unlocking the Steering Wheel

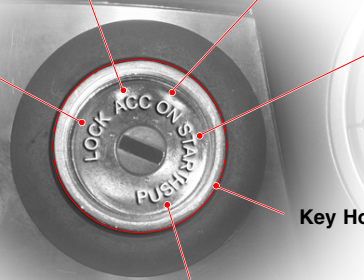
To unlock the steering wheel, insert the key and gently turn it to the ACC or ON position while slightly moving the steering wheel right and left.

Key Hole Illumination*

The illumination lamp comes on when opening the door. This lamp goes out about 10 seconds after closing the door.

Key Reminder

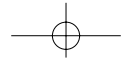
The buzzer will sound if the driver's door is opened while the key is left in the ignition switch on the condition that the ignition key is in the ACC or ON position.



Key Hole Illumination

From ACC to LOCK Position:

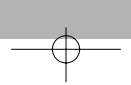
Turn the key to LOCK position from ACC position while pressing the key.



⚠ CAUTIONS WHEN STARTING THE ENGINE

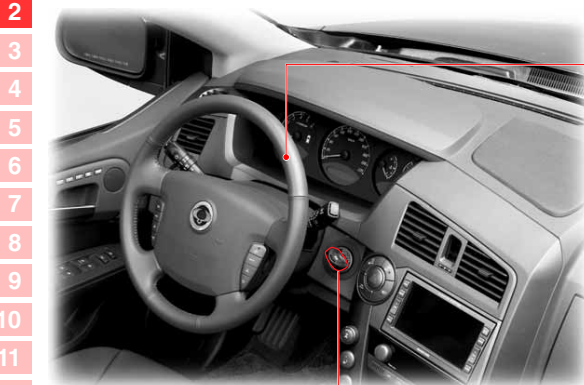
- To unlock the steering wheel, insert the key and gently turn it to the **“ACC”** position while slightly moving the steering wheel right and left.
- The engine in a manual transmission equipped vehicle can only be started when the clutch pedal is fully depressed.
- Diesel engine equipped vehicle: Turn the ignition key to the **“ON”** position and wait until the glow indicator goes out. After then, turn the ignition key to the **“START”** position and hold it until the engine starts. But do not hold the ignition key at the **“START”** position for more than 10 seconds.
- The engine in an automatic transmission equipped vehicle can be started only when the selector lever is at the **“P”** or **“N”** position.
- Keep the brake pedal depressed when starting the engine.
- If the engine fails to start, even if the engine does not start, turn the key back to the **“LOCK”** position and wait for 10 seconds. Then try again, before any attempt to start the engine.
- After starting the engine, let it run for approx. 2 minutes at idle speed. Do not accelerate the engine during the warming up period.
- A warning buzzer sounds when opening the driver's door with the key positioned at the **“ACC”** or **“LOCK”** position.
- Do not leave the key at the **“ACC”** or **“ON”** position when engine is not running. Otherwise, the battery could run down.
- Never press down the accelerator pedal while starting.
- Do not operate the starter for more than 10 seconds at a time. (The starter motor may be damaged.)
- To prevent any damage to the starter, restart the engine from the **“LOCK”** position after waiting at least 10 seconds.
- Never turn the key to the **“LOCK”** position or withdraw the ignition key from the ignition switch while driving. The steering wheel will be locked and you may end up with serious injuries.
- Never use any duplicated key not provided from Ssangyong.
The duplicated key might not turn back to the **“ON”** position. It may cause a fire due to an overload in the electric circuit. In addition, the engine with the immobilizer system cannot be started with the duplicated key.

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IMMOBILIZER SYSTEM*

0 The Immobilizer System provides an additional theft deterrent to the vehicle in which it is installed and prevents it from being started by unauthorized persons. The transponder integrated in the key and the engine control unit have the same code. When the ignition key with the integrated transponder is turned to the ON position, the ECU (Engine Control Unit) checks the crypto code of the key and, if correct, allows your vehicle to start the engine.



Immobilizer Indicator



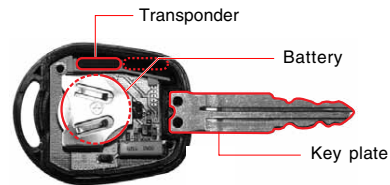
This indicator comes on when the ignition key is communicating with the engine control unit (during engine starting) and goes out after starting the engine. If this indicator blinks, it may indicate that there is something wrong in the immobilizer system. Have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

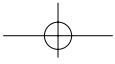
NOTE

The time needed for communication between the immobilizer key and ECU can vary. When the time is very short, the immobilizer indicator does not come on.

Immobilizer Key

When the ignition key with the integrated transponder is turned to the ON position, the ECU (Engine Control Unit) checks the crypto code of the key and, if correct, allows your vehicle to start the engine.



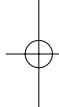


• When the Transponder is Damaged

When the transponder is damaged, you must replace it with a new one and register a new code on the engine control unit at a Ssangyong Dealer or Ssangyong Authorized Service Center. Otherwise, the engine cannot be started.

• When Your Key is Lost

When your key is lost, the encrypted code should be removed from the Engine Control Unit to avoid any vehicle theft. Please contact a Ssangyong Dealer or Ssangyong Authorized Service Center.



⚠ WARNING

- In any case, the immobilizer system cannot be removed from the vehicle. If you attempt to remove and damage the system, it is impossible to start the engine. So never attempt to remove, damage or modify it.
- In addition, any remote engine starter cannot be installed to the vehicle equipped with the immobilizer system. So never install any remote engine starter.

⚠ CAUTION

- When you modify your vehicle and install a remote engine starter, you may have some problems starting the engine or some fatal accidents.

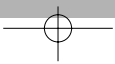
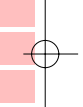
In the following cases, you may be unable to start the vehicle with the immobilizer.

- ▶ When two or more immobilizer keys come into contact with (each) other(s).
- ▶ When the key is close to any device sending or receiving electromagnetic fields or waves.
- ▶ When the key is close to any electronic or electric devices such as lighting equipment, security keys or security cards.
- ▶ When the key is close to a magnetic or metal object or a battery.

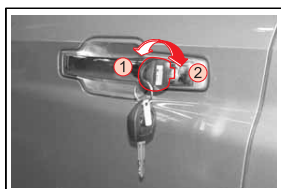
⚠ CAUTION

- If the indicator remains blinking, have the immobilizer system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- Avoid impact to the transponder inside of the key. The transponder can be damaged.
- With a damaged transponder, the engine cannot be started.
- The immobilizer system should be inspected, replaced, serviced, or coded by only qualified service personnel in a Ssangyong Dealer or Ssangyong Authorized Service Center.
- When an old code should be replaced or another key is added, please observe the process personally.

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OPENING AND CLOSING THE DOORS WITH IGNITION KEY



- ① Locking the door and the tailgate
- ② Unlocking the door and the tailgate



To Lock the Door:

Turn the key to the lock position (toward front of the vehicle) from driver's door or passenger's door. All doors and the tailgate will be locked.

To Unlock the Door:

Turn the key to the unlock position (toward rear of the vehicle) from driver's door or passenger's door. All doors and the tailgate will be unlocked.

AUTOMATIC DOOR UNLOCKING

All doors will be automatically unlocked when the engine is switched off.

⚠ CAUTION

When you unlock the door with the ignition key after the door is locked with the remote control (the theft deterrent mode), a warning buzzer sounds. Stop the buzzer by pressing any button on the remote control.

THEFT DETERRENT SYSTEM

Arming the Theft Deterrent System

The theft deterrent system will be armed under the following conditions:

- When all doors are locked with the remote control key, the anti-theft mode will be activated. If the “UNLOCK” button on the remote control key is pressed and no door is opened within approximately 30 seconds, all doors are automatically locked again and the anti-theft mode will be activated.
- When the theft deterrent system is armed, the emergency hazard lights blink twice.

⚠ CAUTION

- To arm the theft deterrent system, the ignition key should be removed from the ignition switch, all doors including the tailgate and the hood should be closed completely.
- Activation of the theft deterrent system can be confirmed by the emergency hazard lights blinking twice.

Theft Deterrent System Alarm Stage

If somebody tries to open the door, the tailgate or the hood without using the remote control key, the alarm will be activated.

- When one of the doors or the tailgate is opened with the ignition key while the deterrent system is armed, the alarm will sound.
- The engine hood or the tailgate is opened from the outside while the deterrent system is armed, the alarm will be activated.
- When the alarm is activated, warning sound and the emergency hazard lights will be on and off every second for 27 seconds.

Disarming the Theft Deterrent System

- Unlock the door by using the remote control key.
- To deactivate the theft deterrent mode at the alarming stage, unlock the door by using the remote control key.
- When the deterrent system is disarmed, the emergency hazard lights blink once.

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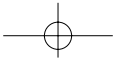
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KYRON

IGNITION KEY, REMOTE CONTROL KEY

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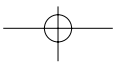
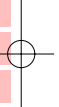
Opening and Closing

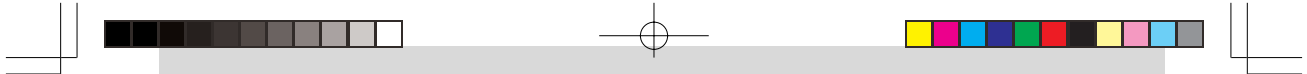
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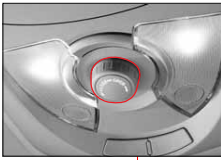

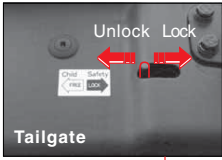

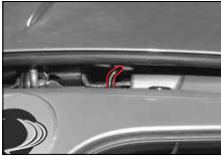

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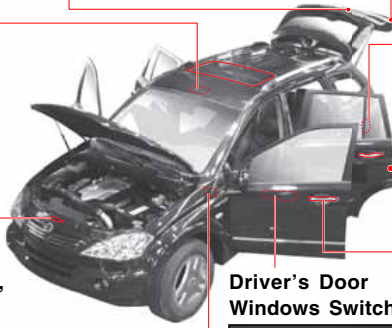
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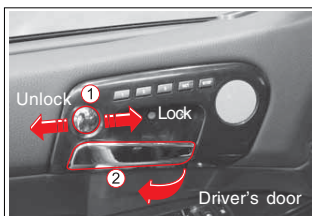
OPENING AND CLOSING DEVICES

0	Sunroof Controller	Tailgate Opening Lever	Child Safety Door Lock	Fuel Filler Door
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6	Engine Hood Safety Latch Lever			
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12	Fuel Filler Door Release Lever, Engine Hood Opening Lever			
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		Child Safety Door Lock	
			
		Driver's Door Windows Switch	Door Opening Lever
			

DOORS



Door Lock/Unlock Knob

All doors will be locked/unlocked when moving the knob to the respective lock/unlock direction (only available at driver's and front passenger's door).

Door Opening Lever

Pull the door opening lever to open the door.

NOTE

- The passenger's door lock/unlock knob and lever have the same functions with those of the driver's door.
- The door lock/unlock knob on the rear right or rear left door can only lock or unlock its respective door.

- 1 Door Lock/Unlock Knob
- 2 Door Opening Lever

Central Door Lock/Unlock Switch



Child Safety Door Lock

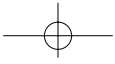
Child safety door lock helps prevent from an accidental door open, especially when children are in the vehicle. When the child-safe lever is in the "LOCK" position, the rear door can be opened only from the outside.

WARNING

Children in rear seats can open rear doors. Move the child-safe lever to the "LOCK" position.



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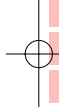
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CENTRAL DOOR LOCK/UNLOCK SWITCH



When the door lock/unlock switch is pressed while all doors including the tailgate are locked, all doors will be unlocked. When the switch is pressed again, all doors will be locked.

This switch is not available when any of doors are not fully closed and the vehicle is in theft deterrent mode.



Automatic Door Unlocking

When the airbag deploys while all doors are automatically locked by the Automatic Door Locking System, the doors will automatically be unlocked.

WARNING
When damage is done on a door or the body frame by an impact from an accident, the automatic door unlocking system may not work.

NOTE
When any door is open, all doors can not be locked by using the door lock knob, the central door lock/unlock switch, or the remote control.

Automatic Door Locking

All doors will be automatically locked when you drive over 30 km/h while the doors are unlocked.

CAUTION
When you drive at 30 km/h or a higher speed and try to unlock all doors with the door lock/unlock knob or switch, all doors are automatically locked again.

Room Lamp Coupled Operation

The center room lamp is on or off depending on opening/closing of doors. When any door is open, the front and center room lamps come on. (However, the main switch of the front room lamp should be pressed.) When any door is closed, the lamp will dim down and go out.



WINDOWS

Driver's Door Window Switch

- When the front of the switch is lightly pressed, the window will be lowered while the switch is pressed.
- When pressed to its end, the window will open automatically until it is fully open. If you want to stop the window while automatic lowering, lightly press the switch again or pull the switch up.

► When closing the window

- When you lightly pull the switch up, the window will move up only while the switch is being operated.
- When pulling the switch up to its end, the window will be fully closed (auto-up operation (if equipped)). If you want to stop the auto-up function, pull up or gently press the switch again.

Rear Left Window Switch

Passenger's Door Window Switch

Rear Right Window Switch

Window Lock Switch

If the window lock switch is pressed down, passenger's and rear windows cannot be operated by their switches.

⚠ WARNING

When carrying children in the rear seat, press the window lock switch to make the rear window switches inoperative. Do not allow children to play with the power window switch and rear door window switches.

⚠ CAUTION

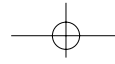
When closing the passenger's and rear windows from driver's seat, be aware of safety conditions before operation. Parts of the body can be trapped by the window.

Central Door Lock/Unlock Switch

Time Lag of Window Operation

The power window can be operated for 30 seconds even after the ignition key is turned to another position from the "ON" position. However, the function immediately stops when one of the front doors is opened.

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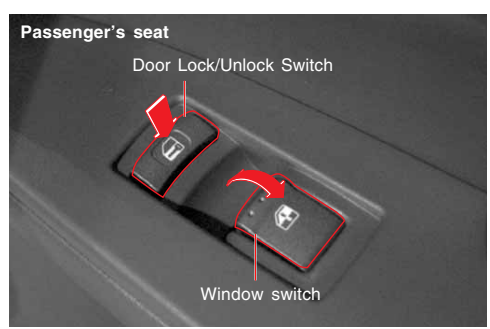
Anti-Trap System for Driver's Window*

The anti-trap system enables the driver's window to automatically reverse when something is caught in the window as it is closing. When the sensor detects an obstacle, the window will be lowered immediately.

CAUTION

- The anti-trap safety system is available only for the driver's window equipped with the automatic rolling up (Auto-up) function.
- The anti-trap system does not operate when a foreign object is trapped in an undetectable area where the space between the top of the glass and window frame is below 5 mm.

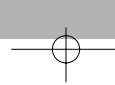
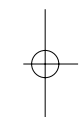
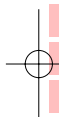
Passenger's and Rear Window Switch



To move windows up or down, pull up or press the corresponding switch for the window.

WARNING

- Before operating the power windows, make sure that nothing can be trapped (such as heads, hands, or fingers) in the window.
- Make sure that passengers do not stick out their hands or heads from the vehicle while driving.
- Do not allow children to play with any switch, door lever or the gear shift lever.



SUNROOF*

* For your safety, never operate the sunroof when the vehicle is moving.

SUNROOF SLIDING OPERATION

► Open: 2-Step Opening

When the sunroof is closed, two thirds of the sunroof automatically opens if the sunroof open/close switch is turned to the "OPEN" direction (Clockwise).

When the switch is turned again to the "OPEN" direction, the sunroof completely opens.

When the switch is operated while the sunroof is moving, the sunroof stops sliding.

► Close

When the sunroof is open, turn the switch to the "CLOSE" direction (counterclockwise) to close it completely. To stop the closing sunroof, operate the switch to either direction.

SUNROOF TILTING OPERATION

► Tilt Up

When the sunroof is closed, turn the switch to the "CLOSE" direction (counterclockwise) to tilt up the rear of the sunroof.

► Tilt Down

When the rear of the sunroof is tilted up, turn the switch to the "OPEN" position (clockwise) to close the sunroof.

WIND BUFFETING

When you drive this vehicle with the window or sunroof open at a certain position, you may feel some pressure upon your ears or hear some noises similar to those from a helicopter. This happens because of an influx in air through the window or sunroof and its resonance effect. If this happens, adjust by opening the window or sunroof.

SUNROOF OPEN WARNING BUZZER

If the driver's door is opened after the ignition key is removed with the sunroof opened, the buzzer will sound to alert you that the sunroof is opened. The buzzer will automatically turn off when the door is closed. After this, the buzzer will not sound even though the door is opened again.



Anti-Pinch Function

To prevent any body parts from being trapped by the sliding sunroof, an Anti-Pinch Function automatically opens the sunroof when an object is trapped.

⚠ CAUTION

- This safety function is available for the sliding sunroof close.
- The anti-Pinch function is deactivated just before the sunroof closes.
- If the anti-pinch is operated 3 times in series, the system is changed to manual mode.

⚠ WARNING

- When operating the sunroof, be aware of safety conditions before operation. Parts of the body can be trapped.

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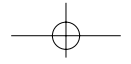
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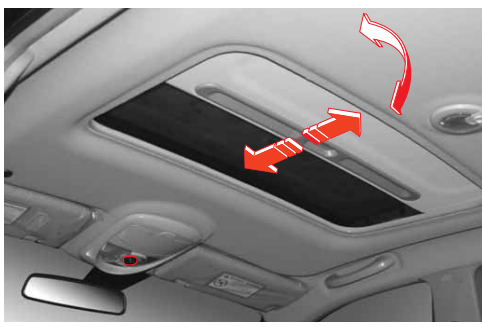
KYRON

OPENING AND CLOSING

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CAUTION

- Even though the sunroof can be operated when the ignition key is in the ON position (the engine is not running), operating the sunroof repeatedly with the engine turned off will run down the battery. Operate the sunroof while the engine is running.
- When a desired sunroof operation is completed, release the switch. If you keep pressing the switch, it could cause a malfunction. Especially in the winter, never operate the sunroof if moving areas are iced. Wait until the areas are deiced.
- When leaving the vehicle unattended, be sure to completely close the sunroof. Otherwise, there is a great risk of vehicle theft. Or, the interior of the vehicle will be wet when it rains or snows.
- When the sunroof is slid to its complete open position, the wind buffet phenomenon can increase. If this happens, adjust by opening the sunroof or only open two thirds of the sunroof by using only the first step of the opening system.

Battery Discharge or Power Failure while Operating Sunroof

If the sunroof is stopped midway due to a discharged battery or power failure, you need to re-calibrate the starting point of the sunroof. In addition, the following cases need the re-calibration.

- The sunroof does not completely close or open by operating the switch once.
- The sunroof slides back to close. But the operation does not stop even after a complete close and tilts up the sunroof.
- The opening gap remarkably decreases for the sliding open or tilt up.
- Operation of the sunroof switch does not do anything or work properly.

Re-calibrating the Sunroof Starting Point

- Turn the sunroof switch to the "CLOSE" direction to completely close the sunroof (sliding close).
- When the sunroof stops while the rear of the sunroof is a little open, turn the sunroof switch to the "CLOSE" direction to tilt it completely.

NOTE

When the sunroof is completely opened with the sunroof switch and the switch is turned to the "OPEN" direction for more than 5 seconds, the sunroof cannot completely be either closed or opened by operating the switch once. The sunroof will be moving only when the switch is being turned. When this happens, re-calibrate the beginning point of the sunroof to reactivate the one touch button.

ROOF RACK*



If the vehicle has a roof rack, you can load things on top of your vehicle.

CAUTION

- In case the sunroof is equipped, do not position roof rack loads that could interfere with opening of the sunroof.
- The following specification is maximum weight when loading cargo or luggage.

ROOF RACK: 45 kg (100 lbs.) EVENLY DISTRIBUTED

- Loading cargo or luggage above specification on the roof rack may damage your vehicle.
- When you carry large objects, never let them hang over the rear or the sides of your vehicle.
- To prevent damage or loss of cargo as you are driving, check frequently to make sure the luggage carrier and cargo are still securely fastened.
 - Always drive your vehicle at a moderate speed.
 - Loading cargo or luggage over specification on the roof rack may damage stability of your vehicle.

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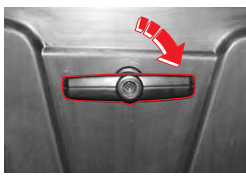
WARNING
 Exhaust gases are poisonous. Do not run the engine with the tailgate open to avoid exhaust gas in the cabin.
 Cargo can fall out of an open tailgate while the vehicle is in motion, resulting in an unexpected accident. Do not travel with the tailgate open.

Tailgate Opening Lever (Outside)



To open the tailgate, unlock the tailgate and pull the tailgate opening lever up.

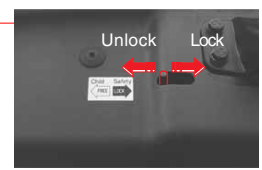
Tailgate Opening Lever (Inside)



Unlock the tailgate and turn the opening lever in the clockwise direction. Then push out the tailgate.

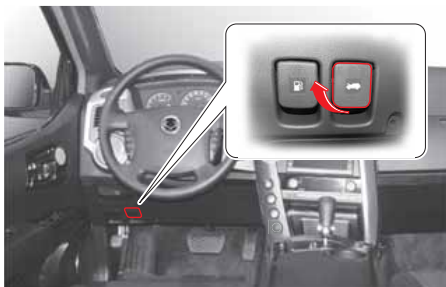
WARNING
 Children in rear seats can open rear doors. Move the child-safe lever to the "LOCK" position.

Child Safety Door Lock

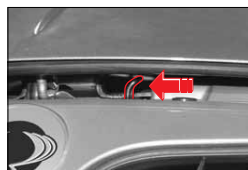


When the lever is engaged in the "LOCK" position, the tailgate cannot be opened with the inside opening lever.

ENGINE HOOD



1. To open the engine hood, pull the release knob located on the lower left side of the steering wheel to unlatch the engine hood.



2. Slightly lift up the engine hood and raise up the safety latch lever with your fingers. Then, completely lift up the engine hood.

⚠ WARNING

- When you open the hood while the engine is running, extra caution is needed to avoid any injuries by the moving parts in the engine compartment.
- Before driving, try to pull up the front edge of the hood to check that the hood is securely latched.



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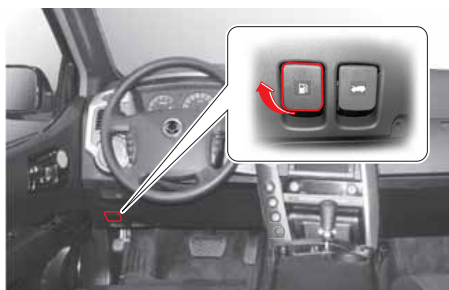
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OPENING AND CLOSING

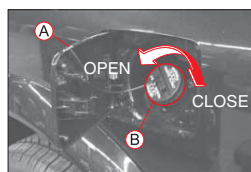
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FUEL FILLER DOOR

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1. Open the fuel filler door (A) by pulling the release lever located on the lower left side of the steering wheel.



2. Open the fuel filler cap (B) by turning it counterclockwise.
3. After refueling, tighten the fuel filler cap by turning it clockwise until you hear clicking sounds. Then close the fuel filler lid (A) properly until it latches.

WARNING

- Always stop the engine when refueling.
- Use only the designated fuel and low sulfur diesel.
- Use only the designated fuel (gasoline or diesel). Otherwise, engine could be seriously damaged.
- When refueling: No smoking, No naked flame, No sparking material
- If you use inappropriate grade fuel or put improper fuel additives into the fuel tank, the engine and catalytic converter may seriously be damaged.

CAUTION

- Fuel damages paintwork. If fuel spills onto paintwork, immediately wash the affected area with cold water.
- The fuel filler door may not open in cold weather. Gently tap the fuel filler door to open.



Gasoline Engine

Fuel with too low octane number can cause pre-ignition (detonation). Ssangyong can not be held liable for resultant damage.

WARNING

Gasoline vapor is highly flammable. It burns violently and that can cause very bad injuries.

When refueling,

- Switch off engine.
- No smoking.
- No naked flame.
- No sparking material.

CAUTION

For correct octane rating setting and other use of gasoline (ex. Leaded), consult your Ssangyong Dealer.

CAUTION

Gasoline damages paintwork. If gasoline spills onto paintwork, wash with cold water immediately.

CAUTION

Engine and exhaust system will be damaged.

- Do not use leaded fuel to the vehicle for unleaded fuel.
- Use the fuel with specified or higher Research Octane Number recommended for your country by Ssangyong. Otherwise, it is not covered by warranty.

CAUTIONS WHEN OPENING/CLOSING DOORS

- Do not allow children to play with any switch, door lever and the gear shift.
- Before operating the power windows, doors, sunroof, tailgate and fuel filler door, make sure that nothing can be trapped (such as heads, hands, or fingers).
- Make sure that the doors, sunroof, tailgate and fuel filler door are completely closed before driving.
- When a child is on board, use the child safety functions to avoid any unwanted and dangerous opening of doors or windows.
- Parts of the human body can be trapped in the window or sunroof and can be struck by passing objects. Do not stick hands, heads or anything else out of the openings.

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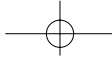
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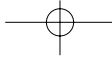
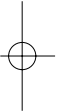
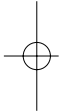
KYRON

OPENING AND CLOSING

3-13



MEMO





Interior Switches

4

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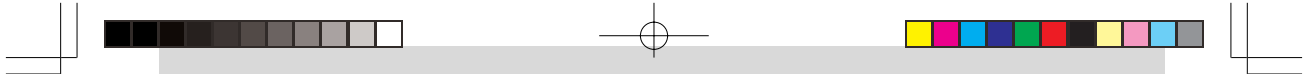
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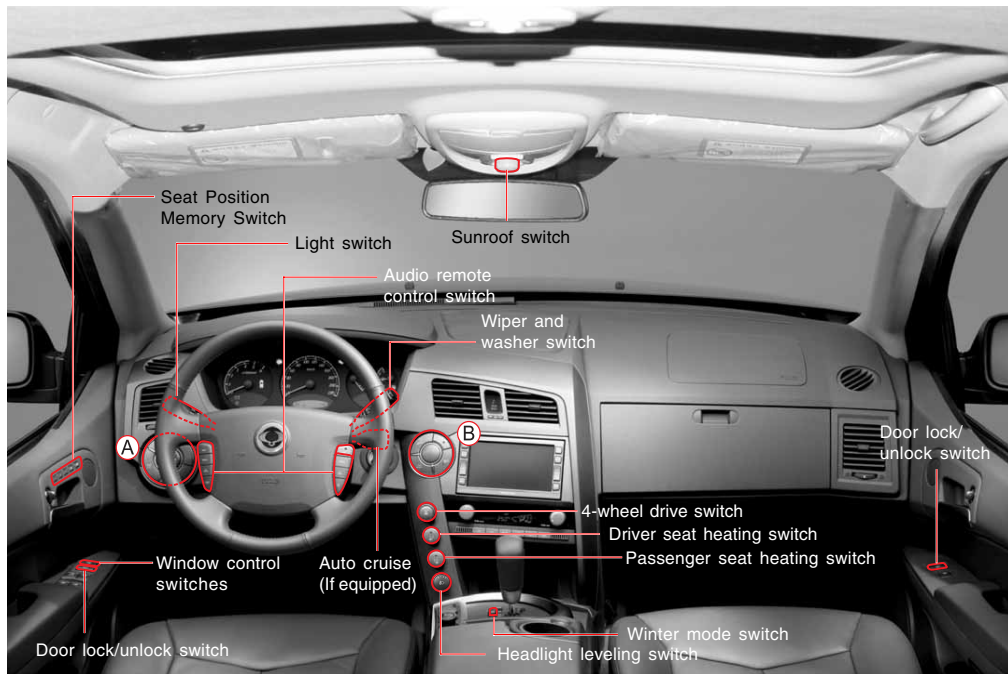
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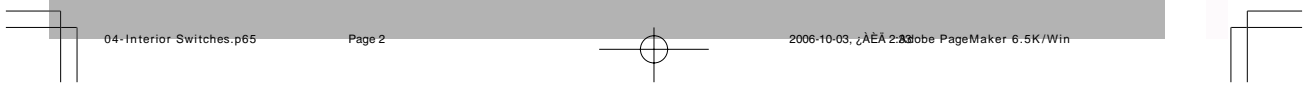
INTERIOR SWITCHES

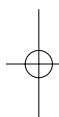
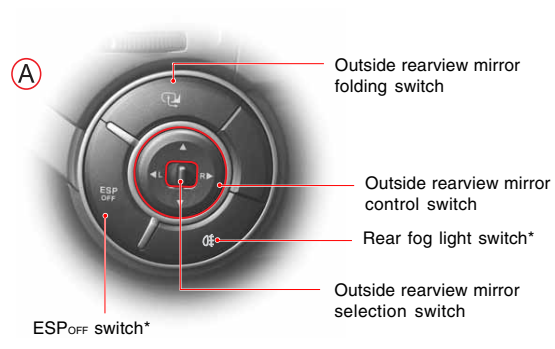
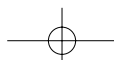
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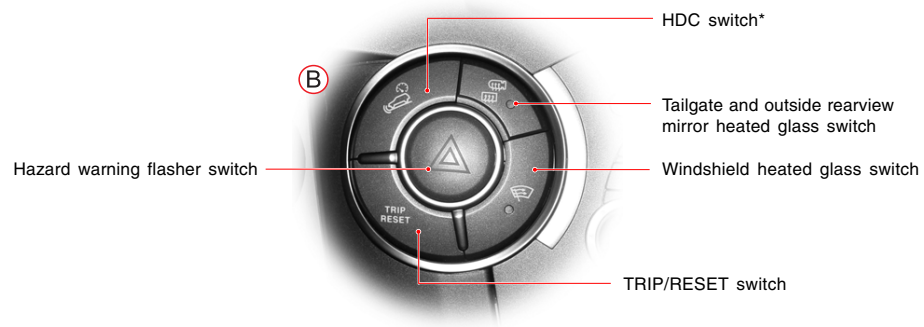
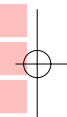
4-2 INTERIOR SWITCHES

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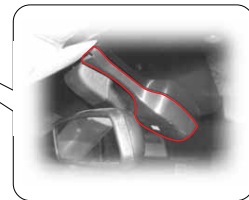
LIGHT SWITCH

Light Switch

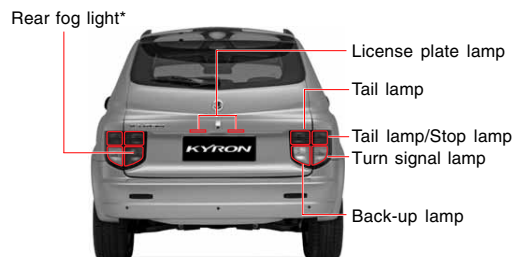
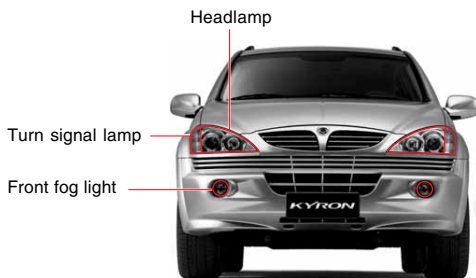


You can turn the lights on and off (headlamps, tail lamps, position lamps, license plate lamp, turn signal lamps, fog lights) with this switch.

Automatic Light & Rain Sensor*



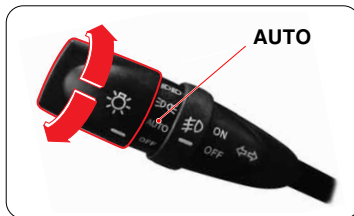
This senses the ambient illumination intensity to determine the timing for turning the headlamps and tail lamps on or off automatically when the light switch is set to "AUTO".



4-4 INTERIOR SWITCHES

KYRON

AUTOMATIC LIGHT*



The auto light and rain sensor senses the ambient illumination intensity to determine the timing for turning the headlamps and tail lamps on or off automatically when the light switch is set to "AUTO".

⚠ CAUTION

- Do not clean the sensor with detergent or wax.
- On a foggy, snowy, rainy, or cloudy day, be sure to use manual mode. The turning on or off time of the lamps varies depending on the climate, season, or circumstances.
- Any aftermarket tanning film or spray may cause the lighting system to malfunction.
- Ssangyong recommends you to use this device restrictively around only a sunrise or sunset.
- Usually turn the head or tail lights on or off manually.
- Turn on the headlamps when passing through a dark area such as a tunnel.
- On a gloomy day, do not rely on this automatic function. But turn the head or tail lights on or off manually.
- When the switch is turned to the "AUTO" position, room, tail, and head lights might blink for a very short time. It is a normal phenomenon recognizing the automatic setting.



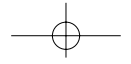
Automatic Light & Rain Sensor*

This senses the amount of rain to operate the windshield wiper automatically (For detailed information of wiper operation, refer to wiper and washer switch section).

⚠ CAUTION

Do not shake and impact the sensor. It may not work properly.

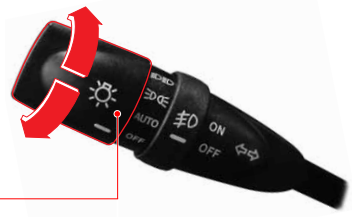
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Battery Saver (Automatically turns off the lights)

- To avoid discharging the battery, if the tail lamps are on after the ignition key is removed, a buzzer will sound to alert the driver when the driver's door is opened. The tail lamps will automatically turn off when the door is closed. (With the light switch on, if the ignition key is removed and all doors are closed, the tail lamps are off due to the battery saver function. However, if you open a door and turn the light switch to the "OFF" position and then to the "ON" position, the tail lamps will stay on after the door is closed.)
- To turn the tail lamps on again, insert the ignition key into the ignition switch. Or, turn the light switch to the "OFF" position and then to the "ON" position.



LIGHT SWITCH

 **(Headlamps ON)**

Head-, side-marker, tail, license plate, fog, and instrument cluster lamps come on.

AUTO **(Automatic light ON)**

Head- and tail lamps automatically turn on or off based upon the intensity of the sunlight analyzed by the automatic light sensor.

 **(Tail lamps ON)**

Side-marker, tail, license plate, fog, and instrument cluster lamps come on.

OFF **(Lights OFF)**

All lights are off.

HEADLIGHT LEVELING SWITCH*

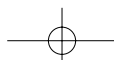


With the low beam switched on, adjust the aiming angle of headlights to suit the vehicle load.

- To lower the aiming angle, rotate the switch counter-clockwise.
- To raise the aiming angle, rotate the switch clockwise.

NOTE

According to load condition, adjust the aiming angle of headlights.



Headlamp High Beam

To turn on the headlamp high beam, push the lever towards the instrument cluster with the headlamp low beam on. The headlamp high beam indicator (☰) in the instrument cluster comes on when the headlamp high beam is turned on.

Right Turn Signal Switch

NOTE

While the turn signal lamp is turned on, the turn signal indicator in the instrument cluster blinks.

FRONT FOG LIGHT SWITCH

To turn on the fog lights, turn this switch while the tail lamps or headlamps are turned on.

DAYTIME RUNNING LIGHT (DRL): DRL Regulation Region Only

For vehicles equipped with the DRL, the tail lights automatically turn on when turning the starter key from ACC to ON.

The headlights turn on as the engine starts. With the headlights automatically ON, turning the light switch from off to on turns off the headlights but keeps the tail lights on. (Turning the light switch immediately deactivates the DRL function.)

Passing

Regardless of the position of the light switch, if you hold the lever toward the steering wheel, the headlights are on high beam during the hold. The high beam indicator also illuminates on the instrument cluster during the hold.

Left Turn Signal Switch

REAR FOG LIGHT SWITCH*



To turn on the rear fog light, push the rear fog light switch while the front fog light switch is turned on. To turn it off, push the switch again. The rear fog lights are automatically turned off when turning off the light switch or the front fog light switch. Therefore, to turn on the rear fog lights, push the rear fog light switch again after turning on the light switch and the front fog light switch.

⚠ WARNING

Driving with high beam headlamps disturbs the approaching vehicle's visibility for safe driving. Use the high beam headlamp only during very dark situations when it is very hard to see the road.

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KYRON

INTERIOR SWITCHES

4-7

WIPER AND WASHER SWITCH

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FRONT WIPER SWITCH

MIST

The windshield wipers can be operated only when you hold the switch to the "MIST" position. The lever will return to the "OFF" position when released.

OFF

Stop the operation.

AUTO

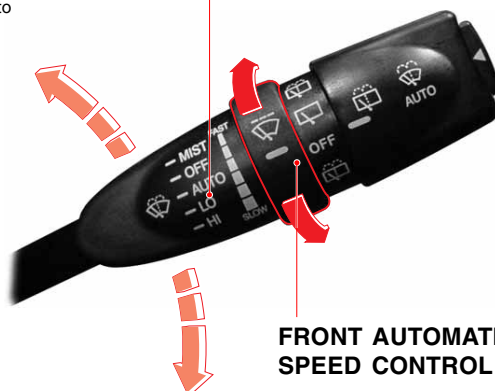
Operates automatically according to the vehicle speed or amount of rain.

LO

Continuous wipe, slow operation

HI

Continuous wipe, fast operation

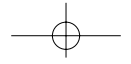


FRONT AUTOMATIC WIPING SPEED CONTROL SWITCH

The interval of wiper swings can be adjusted by twisting the control knob upward or downward when the windshield wiper switch is in the AUTO position.

Fast: Fast interval

Slow: Slow interval



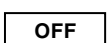
REAR WIPER SWITCH



When the switch is fully turned, washer fluid will be sprayed onto the rear window glass and the wiper will also operate. When the switch is released, it will stop in the Rear Wiper Operation mode and only the wiper will keep operating.



Rear wiper operation



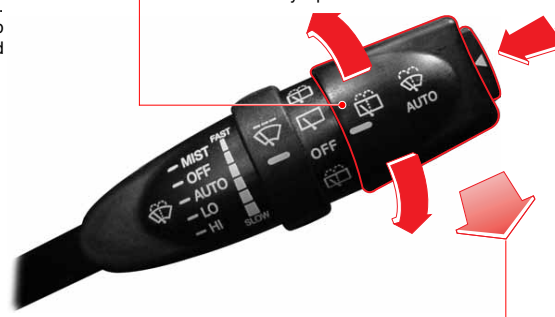
Rear wiper stops



When the switch is fully turned, washer fluid will be sprayed onto the rear window glass and the wiper will also operate. When the switch is released, it will return to the "OFF" position and turn off the wiper and washer.

FRONT AUTO WASHER SWITCH

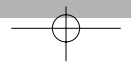
When the front wiper switch is off and this switch is pressed, washer fluid will be sprayed and the wiper will automatically operate 4 times. Then, the fluid will be sprayed again and the wiper will automatically operate 3 times.



Wiper and Washer Coupled Operation

Pull the lever briefly (for less than 0.6 seconds):
One wiping cycle with washer spray
Pull and hold the lever for more than 0.6 seconds:
Three wiping cycles with washer spray
While being held down, the wiper and washer will keep working.

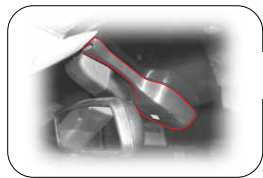
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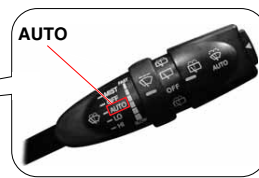
RAIN SENSING WIPER*

0 When the wiper switch is in the “**AUTO**” position, this sensor detects the amount of rain, turns on the wiper, and controls the intermittent wiper intervals.

Rain and Auto Light Sensor



Wiper AUTO Position



7 It controls the wiping speed by detecting the amount of rain drops.

CAUTION

- When the wiper switch is in the “**AUTO**” position, the wiper will operate once if the initial engine start is made. This may wear the wiper blades prematurely (especially in winter). Therefore, other than rainy days, set the switch to the “**OFF**” position. In winter, ensure that the wiper blades are not frozen and are not stuck to the windshield. Otherwise, this may cause some damage to the wiper motor.
- If you use only the wipers when the glass is dry, this could scratch the glass and wear the wiper blades prematurely. Use the wiper with the washer when the glass is dry.
- Turn the wiper switch to the “**OFF**” position before any car wash to avoid unwanted operation of the wipers.
- When it does not rain, turn the wiper switch into the “**OFF**” position.

WARNING

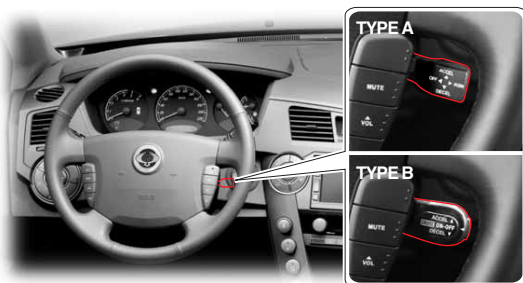
When you clean the windshield over the sensor with damp clothes, the wiper may operate suddenly. It could cause serious injury. Make sure to place the wiper switch and ignition switch to the “**OFF**” position when not in use.

NOTE

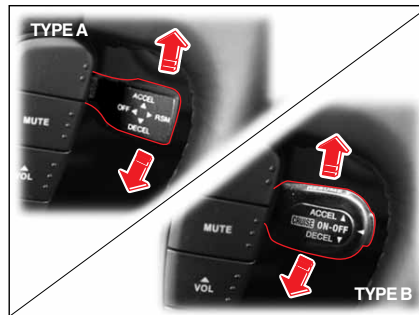
- When the light and wiper switches are in the “**AUTO**” position, head lights come on if the rain sensor detects any rain. The head lights stay on for 3 minutes after the rain stops.
- The speed of the wipers becomes a little faster when it is dark enough to turn on the automatic lights.
- When the ignition key is in the “**ON**” position, the wiper will automatically operate once if the wiper switch is turned from the “**OFF**” to the “**AUTO**” position. But the wiper will not operate again to prevent any damage to the window even though the wiper switch is turned from the “**OFF**” position to the “**AUTO**” position.

CRUISE CONTROL SWITCH* (FOR AUTO T/M)

CRUISE CONTROL



Setting a Desired Speed



The cruise control is an automatic speed control system that maintains a desired driving speed without using the accelerator pedal. The vehicle speed must be greater than 36 km/h to engage the cruise control. This feature is especially useful for motorway driving.

CAUTION

Improper use of the cruise control could be dangerous.

- Do not use on winding roads.
- Do not use in heavy traffic.
- Do not use on slippery, wet roads.

This could result in a loss of control, collision, and/or personal injuries.

NOTE

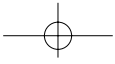
The described speed value may vary slightly depending on the road conditions.

1. To operate the cruise control, accelerate to your desired speed using the accelerator pedal over 36 km/h.
2. When the desired speed is reached, push up the ACCEL switch of the cruise control lever or push down the DECEL switch for 1 second per one switching and then release the accelerator pedal slowly.
3. Now, the vehicle is cruised by this system with the set speed.
4. And you can set to other vehicle speeds again with above steps after an accelerator pedal intervention during the cruise control running.

KYRON

INTERIOR SWITCHES

4-11



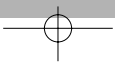
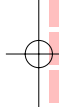
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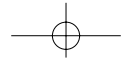
Accelerating with the Cruise Control System

- While the cruise control system is running
 1. Push up the ACCEL switch of the cruise control lever and hold it until the desired speed is reached without an accelerator pedal intervention.
 2. When the desired speed is reached, release the lever.
- While the cruise control system is not running
 1. Accelerate using the accelerator pedal over 36 km/h.
 2. Push up the ACCEL switch of the cruise control lever and hold it.
 3. And then release the accelerator pedal slowly.
 4. When the desired speed is reached, release the lever.
- Tap-up while the cruise control system is running
 1. Push up the ACCEL switch of the cruise control lever less than 0.5 second per one switching while the cruise control system is running. This is a tap-up switching.
 2. When you operate a tap-up switching, the vehicle is accelerated for 1.3 km/h over the previous set speed.
 3. If you want to accelerate for 13 km/h, operate the tap-up switching ten times without accelerating with the cruise control system.

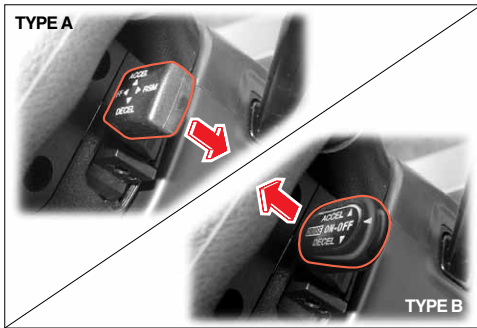
Decelerating with the Cruise Control System

- While the cruise control system is running
 1. Push down the DECEL switch of the cruise control lever and hold it until the desired speed is reached without a brake pedal intervention. But the cruise control system cannot maintain the cruise function at less than 34 km/h.
 2. When the desired speed is reached, release the lever.
- When the cruise control system is not running
 1. Push down the DECEL switch of the cruise control lever and hold it.
 2. And then release the accelerator pedal slowly.
 3. When the desired speed is reached, release the lever. But the cruise control system cannot maintain the cruise function at less than 34 km/h.
- Tap-down while the cruise control system is running
 1. Push down the DECEL switch of the cruise control lever less than 0.5 second per one switching while the cruise control system is running. This is a tap-down switching.
 2. When you operate a tap-down switching, the vehicle is decelerated for 1 km/h below the previous set speed.
 3. If you want to decelerate for 10 km/h, operate the tap-down switching ten times without the brake pedal intervention.





Recovery of Set Speed

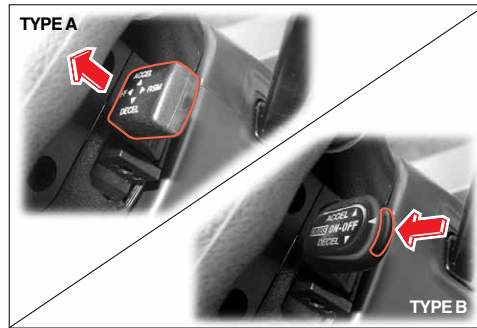


Even if the cruise control is cancelled, the previous set cruise speed can be recovered by pushing (Type A) or pulling (Type B) toward the cruise control lever when the current vehicle speed is over 36 km/h without an acceleration intervention. But if you turn off the ignition switch, the memorized set speed is cleared and you cannot recover the previous set speed.

CAUTION

The resume position should only be used if the driver is fully aware of this speed and wishes to resume this particular speed.

Normal Cancellation of the Cruise Control



The cruise control system will be canceled when one or more items of the following conditions are applied;

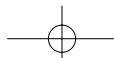
1. When the brake pedal is depressed.
2. When the cruising speed is downed less than 34 km/h.
3. When the OFF switch is operated by pulling the cruise control lever (Type A) or by pushing the ON-OFF switch of the cruise control lever (Type B).
4. When ABD is activated.

And the cruise control system can be operated again in driving state.

CAUTION

Keep the main cruise control switch in the neutral position when not using the cruise control.

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Abnormal Cancellation of the Cruise Control

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1. When the rapid deceleration is applied without braking.

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2. When the rapid acceleration is applied without acceleration pedal intervention.

3

3. When the cruise control lever is failed.

4

4. When the brake switch and the brake light switch input signal are implausible.

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And the cruise control system cannot be operated again in driving state. In this case, you should stop the vehicle, and turn off the ignition switch and then turn it on again. After you do that, you can use the cruise control system again. But if the cruise control system isn't recovered, you should contact a Ssangyong Dealer for diagnosis of the cruise control system.

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CAUTION

Abnormal changes of the selector lever can damage the engine.

10

Do not move the shift lever to Neutral while driving at the set speed.

11

Automatic transmission damage may result.

12

CAUTION

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• The speed that has been set may not be maintained on uphill or downhill slopes.

14

• The speed may drop to less than the set speed on a steep uphill grade. The accelerator must be used if you want to maintain that speed.

15

• The speed may increase to more than the set speed on a steep downhill grade. When the speed increases too much, turn off the cruise control.

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Using the Cruise Control on Hills

How well the cruise control works on hills depends on the speed, load, and the steepness of the hill.

When going up steep hills, you may have to depress the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to keep your speed down.

Applying the brake takes you out of the cruise control.

OUTSIDE REARVIEW MIRROR CONTROL SWITCH

Outside Rearview Mirror Folding Switch

To fold the outside rearview mirrors, press the switch. To unfold the mirrors, press again.

Mirror Selection Switch

- ▶ "L": Driver side mirror
- ▶ "R": Passenger side mirror

Outside Rearview Mirror Control*

1. Select the driver side mirror (L) or the passenger side mirror (R) with the mirror selection switch.
2. Adjust the outside rearview mirror by pushing the appropriate edge of the switch.

Aiming Switch

Adjust the selected mirror up, down, left, or right by pressing the corresponding edges of the switch to get a desired view.

WARNING

Do not put any tinting film on the door glasses of the front seats. Otherwise, your visibility will decrease.

CAUTION

- You can fold and unfold the mirrors within 30 seconds after the ignition is turned to OFF. (However, this function is overridden when the driver's door is opened with the ignition switch OFF.)
- Do not fold or unfold the outside rearview mirrors manually. It may cause a malfunction of the mirror folding system.
- If you directly spray high-pressure water to the electric remote-controlled outside mirrors, this may cause some malfunctions in the mirror system.

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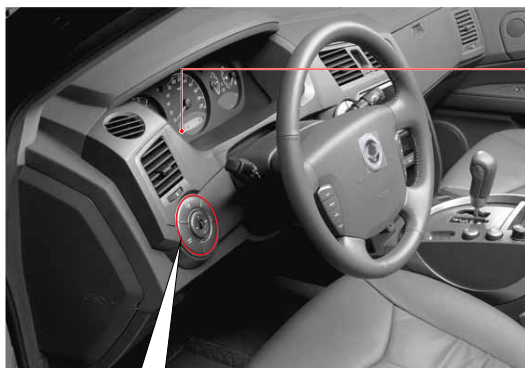
INTERIOR SWITCHES

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ESP_{OFF} (ELECTRONIC STABILITY PROGRAM) SWITCH AND ESP SYSTEM*

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ESP

ESP Warning Lamp

Blinking: When ESP is activated.

On: When ESP is deactivated (by pressing the ESP_{OFF} switch).

When ESP system is defective.

When ESP is activated, the indicator light is blinking and a warning buzzer sounds. If this indicator illuminates in spite of an activated ESP, this means a malfunction of the ESP system.

Stopping ESP Function With ESP_{OFF} Switch

If the driving wheels are slipping on snowy or icy roads, the engine rpm may not increase even when you depress the accelerator pedal, and accordingly, you may not be able to move your vehicle. In this case, stop the ESP function by pressing the ESP_{OFF} switch. When the ESP_{OFF} switch is pressed, the ESP function stops and the vehicle is driven independently from the sensor outputs.

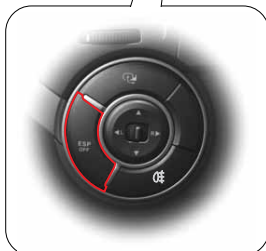
Resuming ESP Function With ESP_{OFF} Switch

If you push the ESP_{OFF} switch again when the ESP function is deactivated (the ESP warning lamp is turned on), the system will be resumed and the ESP warning lamp on the instrument cluster goes out by resuming the ESP system.

ESP_{OFF} Switch

If you press the ESP_{OFF} switch, the ESP function stops and the indicator lamp in the instrument cluster comes on.

Press this switch again to resume the ESP function. At this time, the indicator lamp goes out.



ESP (ELECTRONIC STABILITY PROGRAM) SYSTEM

The Electronic Vehicle Stability Control Program (ESP) is a supplementary driving safety system when your vehicle is unstably moving in a certain situation, such as during a sharp corner. The ESP applies brakes on a certain wheel(s) or controls the engine torque to compensate vehicle stability. These actions help your vehicle avoid dangerous situations. The ESP functions automatically, working only in very unstable conditions; it does not operate under normal driving conditions. If the ESP is engaged, the ESP warning light will flicker on the instrument cluster and a warning alarm will sound.

BAS (Brake Assist System) Function

A certain driver such as a female driver, aged driver, or a driver with a disability is unable to depress the brake pedal as hard as necessary. When the ESP system recognizes any emergency situations requiring hard braking, it automatically delivers an extra high braking pressure to the wheels.

ARP (Active Rollover Protection) Function

This function is a part of the ESP system. When your vehicle moves in an extremely unstable manner, this function helps the vehicle maintain normal stability.

CAUTION

The ARP system more powerfully controls the engine and each wheel than the ESP function. When the ARP is applied, a sudden decrease of vehicle speed or powerful braking force can make steering your vehicle a little difficult.

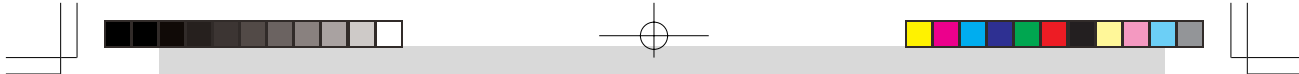
CAUTION

- If the ESP warning light comes on, the ESP related system is defective. Make sure to check the vehicle at the nearest Ssangyong Dealer or Ssangyong Authorized Service Center.
- The ESP system does not operate during reverse driving.
- The ESP system activates when the vehicle is unstable to correct the vehicle stability. When the ESP warning lamp and the warning alarm turn on, reduce the speed and pay extra attention to the road.
- The ESP system is only a supplementary device for the vehicle. When the vehicle exceeds its physical limits, it cannot be controlled. Do not rely on the system. Keep driving safely.
- When ESP is applied, you may feel some noise or vibration from the brake pedal or other relevant systems. They are caused by pressure changes in the relevant systems.

Driving Impression when ESP is Working

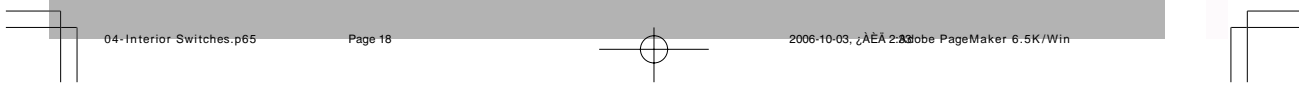
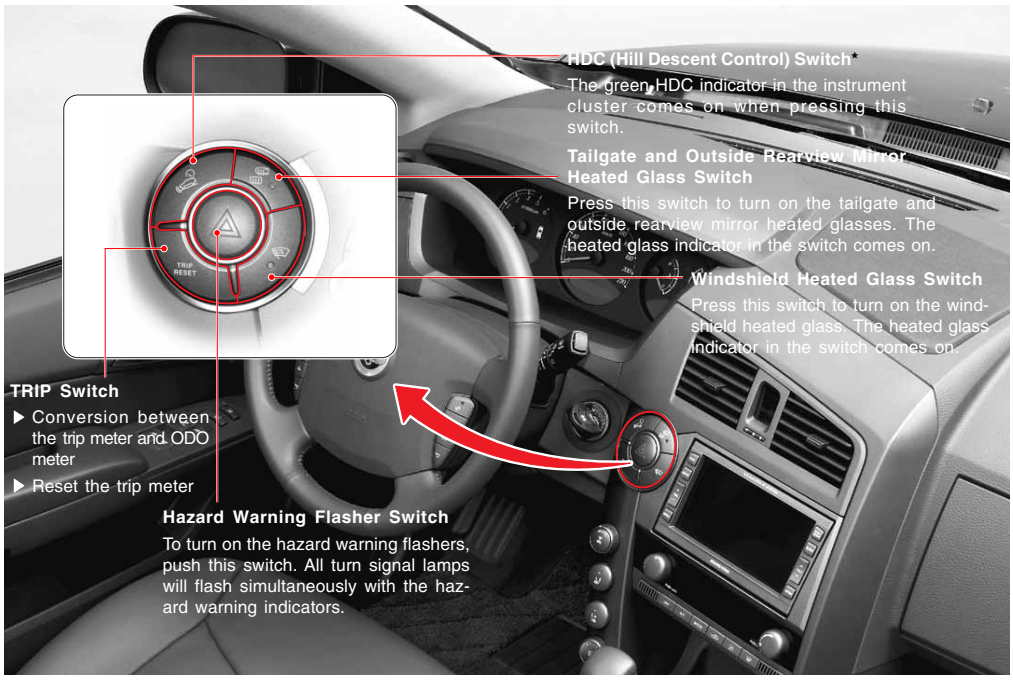
When ESP is applied in a certain situation (the indicator blinks and a warning buzzer sounds), such as during a sharp turn, you may feel that ESP controls each wheel and different levels of needed braking force are applied to wheels. You may hear some noise or feel some vibrations from the brake pedal or other systems. They are caused by pressure changes in relevant system. You may also notice the engine output decreases even when the accelerator pedal is being depressed.

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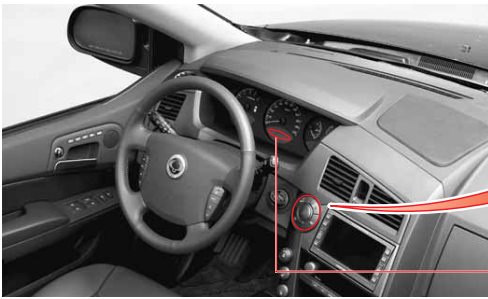


CENTER SWITCH PANEL

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TRIP AND RESET SWITCH



TRIP/RESET Switch

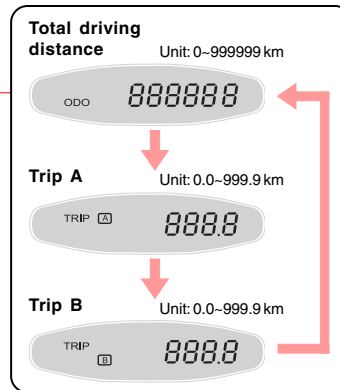
TRIP/RESET switch is used for different displays: TRIP A, TRIP B and ODO (the total driving distance)

1. Changing the Driving Distance Display Mode

- To choose a desired driving distance display mode, press the switch. Changing sequence: ODO - TRIP A - TRIP B - ODO

2. TRIP A and TRIP B Resetting Procedure

TRIP A/B display will be initialized to 0 km when the distance of an individual trip exceeds 999.9 km. If you press and hold the reset button for more than one second in TRIP A or TRIP B mode, the trip meter resets to zero.



* If the meter cluster with "mile" unit is installed, trip/odo distance is displayed in "mile".

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HDC (HILL DESCENT CONTROL) SWITCH*

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HDC?

HDC stands for Hill Descent Control. When traveling down steep grades, this function allows you to travel at a low speed without any depression of the brake pedal. This convenient function is for only driving down steep grades. Therefore do not use this function for anything other than driving down steep hills.

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HDC Switch

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When this button is pressed once, HDC is ready for use. The green HDC indicator on the instrument cluster comes on. When the button is pressed again, HDC is deactivated and the indicator goes off.



7

The HDC Indicator

8

Green light on: HDC is ready for use (by pressing the HDC switch).

9

Green light blinking: HDC is being applied.

10

Red light on: the HDC system is overheated or malfunctioning.

11

When HDC is applied, the green HDC indicator blinks.

12

When the red HDC indicator is on, the HDC system is overheated or malfunctioning.

13

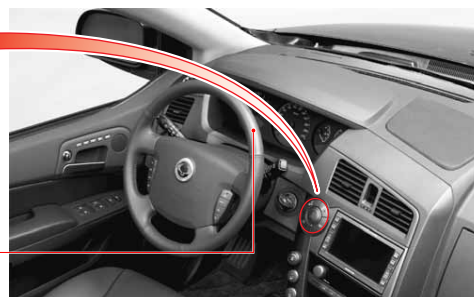
When the red HDC indicator is on, the HDC function does not work.

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HDC



Depressing the Accelerator or Brake Pedal while HDC is being applied

If you depress the accelerator or brake pedal, the HDC function immediately stops and there will be more driving or braking force accordingly.

⚠ WARNING

- When driving down an extremely dangerous steep grade, HDC will still work even if the brake or accelerator pedal is depressed.

HDC Operational Conditions

1. The HDC switch should be on (The green indicator on the instrument cluster comes on).
2. A certain steep grade.
3. Driving for about 7 ~ 50 km/h in the 2 wheel (2H) or 4 wheel high (4H) speed position. Or driving for about 3 ~ 25 km/h in the 4 wheel low position.
4. The automatic gear shift lever is in the "D" or "R" or "N" position. In case of the manual transmission, the gear shift is in the forwarding "1" or "Reverse" or "Neutral" position.
5. The accelerator or brake pedal is not depressed.
6. ESP (Electronic Stability Program, including BAS) is not activated.

Deactivation Conditions of HDC

1. The HDC switch is off (The green indicator on the instrument cluster is off too).
2. Less than required steep grade.
3. Vehicle's speed is out of the operational ranges.
4. The accelerator or brake pedal is depressed.
5. ESP (including BAS) is applied.
6. Because of extended operation of HDC, the system is overheated (The red HDC indicator illuminates).

Operation of HDC

When all operational conditions are met, HDC is applied and the green HDC indicator blinks. HDC automatically decreases the vehicle speed to 7 km/h in the 2 wheel (2H) or 4 wheel high speed mode (4H) position. HDC automatically stops at speeds less than 7 km/h or when the slope descends slowly. It is normal to have strong vibrations and noise from the brake system when HDC is applied.

⚠ WARNING

- HDC is designed for driving on off-road steep grades.
- Unnecessary usage of HDC can cause malfunctions in the brake system or ESP. Do not use HDC when driving on normal roads.
- If driving on a level road with HDC on and ready for use, HDC may be applied during sharp cornering or passing over a speed bump. Therefore, do not activate HDC while driving on normal roads.
- If the red HDC indicator illuminates, HDC is overheated or malfunctioning. If the indicator is on even after the system has cooled down enough, have the nearest authorized dealer or service center check the system.
- It is normal to have strong vibrations and noise from the brake system when HDC is applied.
- In case of a manual transmission vehicle, the gear shift is in the forwarding "1" or "Reverse" position. If HDC is attempted in the "2" position, the engine may turn off.

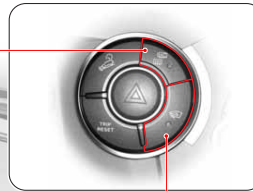
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HEATED GLASS SWITCH

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Tailgate and outside rearview mirror heated glass switch

- Press this switch to turn on the tailgate and outside rearview mirror heated glasses. It will operate for about 12 minutes.
- Press the switch again to stop the operation.
- This switch is designed to defrost or defog the tailgate glass and outside rearview mirrors.
- The heated glass will operate for about 6 minutes when the switch is pressed again within 10 minutes after completion of its first operation cycle.
- The indicator in the switch comes on when in use.



Windshield heated glass switch

- Press this switch to turn on the windshield heated glass. It will operate for about 12 minutes.
- Press the switch again to stop the operation.
- Use this to prevent the windshield wiper blades from being frozen.
- The indicator in the switch comes on when in use.

Outside rearview mirror heated glass



Tailgate heated glass

Windshield heated glass



AUDIO REMOTE CONTROL SWITCHES ON STEERING WHEEL

* The audio system equipped in the vehicle can be controlled by the remote control switches on the steering wheel.

POWER

Audio power on/off when the button is pressed.

MODE

Audio mode changes when the button is pressed.

SEEK / SEEK

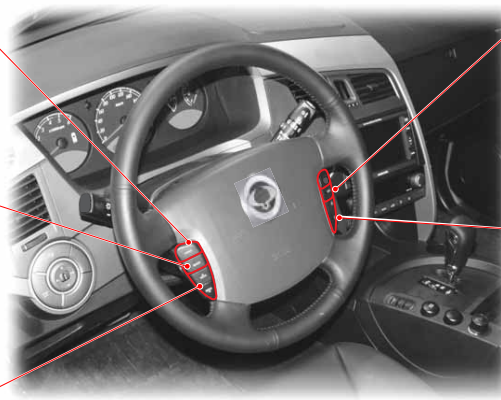
- In radio mode
 - Press briefly: Manual searching for a station. Move to a stored station.
 - Press and hold: Automatic searching for a station.
- In CD (DVD) player/Cassette tape mode
 - Press briefly: Replay the next/previous track.
 - Press and hold: Move forward/backward in the current tract.

MUTE

Stops audio output from the audio system. To resume the audio output, press the button again.

VOL / VOL

Increases/decreases volume



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4-WHEEL DRIVE SWITCH*

4-WHEEL DRIVE SWITCH

Only for part time TC, not available for 2-wheel drive vehicle and all wheel drive vehicle.

Select a proper driving mode according to the road conditions.

NOTICE

- Do not drive your vehicle over 80 km/h in 4H mode.



2H : 2-Wheel Drive

Rear wheel high speed driving mode. Use this mode for normal or high speed driving on a public road or highway.

4H : 4-Wheel Drive, High

Use this position on wet or slippery roads such as sandy, muddy or snow covered roads.

4L : 4-Wheel Drive, Low

Use this position for maximum traction.

All Wheel Drive*

AWD stands for the full-time 4WD system. AWD reduces wheel slippage and provides greater driver control over the vehicle. AWD automatically splits the torque between the front (40%) and rear (60 %) wheels.

Driving Mode Change

2H ↔ 4H

It is recommended to shift under a speed of 70 km while the vehicle is being driven.

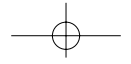
2H, 4H ↔ 4L


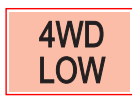

Automatic Transmission Equipped Vehicle

Stop the vehicle on a level ground and place the gear selector lever into the "N" position. Turn the switch to the desired position while depressing the brake pedal.

Manual Transmission Equipped Vehicle

Stop the vehicle on a level ground and place the shift lever into the "Neutral" position. Turn the switch to the desired position while depressing the clutch pedal.

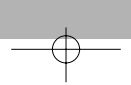


4WD HIGH Indicator	4WD LOW Indicator	4WD CHECK Warning Indicator
		
<ul style="list-style-type: none"> When shifting the driving mode from "2H" to "4H", this indicator comes on. When shifting the driving mode from "4L" to "4H", this indicator blinks until the shifting operation is completed. After completion of the mode change to 4H, the indicator comes on. 	<p>When shifting the driving mode to "4L", this indicator blinks until the shifting operation is completed. After completion of the mode change to 4L, the indicator comes on. After completion of the mode change to 4WD HIGH, the indicator goes out.</p>	<p>This warning indicator comes on when the ignition switch is turned to "ON" and should go out if the system is normal. If the "4WD CHECK" warning indicator stays on, have the 4WD system checked by the nearest Ssangyong Authorized Service Center.</p>

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⚠ CAUTIONS WHEN USING 4-WHEEL DRIVE MODE

- There could be mechanical noises and shocks during mode changes. However, these are normal conditions due to the mode changing operations.
- Use only the 2H mode on a normal paved surface. Do not drive your vehicle in the "4H" or "4L" position on paved road surfaces. Doing so will result in damages to the drive train.
- Driving in a 4 wheel mode on a normal paved surface will cause unwanted noises, premature wear of tires, or increased fuel consumption.
- To shift from "4L" into another mode or vice versa, stop the vehicle and depress the brake pedal before any shift.
- If the "4WD CHECK" warning light stays on, have the 4WD system checked by the nearest Ssangyong Dealer or Ssangyong Authorized Service Center.
- When cornering a curved road in a 4-wheel drive mode (4L or 4H), there could be some mechanical shocks and resistances in vehicle's drive train. These are normal conditions due to internal resistance in the drive train when the 4-wheel drive mode is properly working. To avoid damages to the drive train, do not drive your vehicle at an excessively high speed on a sharply curved road.
- When shifting from "4L" to "4H" in a vehicle equipped with automatic transmission, move the gear selector lever from "N" to "R" position after pushing the 4WD switch, and then move it to the "N" position again. This helps to make the mode changes easily.



SWITCHES IN OVERHEAD CONSOLE

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Spot Lamp Switch (Driver's)

The front room lamp (driver's) turns on when pressing in this switch.

Main Room Lamp Switch

When this switch is pressed, the front and center room lamps are coupled with doors. (The center room lamp is coupled only if the center room lamp switch is in the door coupled operation.) When pressed again, the lamps go out. If switches of the spots and center room lamps are turned on, the lamps do not go out in spite of repressing the switch. To turn them off, check the switches.

When a door is opened, the front and center room lamps are turned on. In this case, you cannot turn off the lamps with the main room lamp switch. However, if the door is closed, the lamp will go out.

Sunroof Switch

By turning this switch to either the clockwise or counterclockwise direction, the sunroof can be open or closed. For more information, refer to Chapter 2.

Spot Lamp Switch (Passenger's)

The front room lamp (passenger's) turns on when pressing in this switch.

CAUTION

If your vehicle is left unattended while the front main, spot, or center room switch is turned on, the battery may be discharged.



Instrument Cluster

5

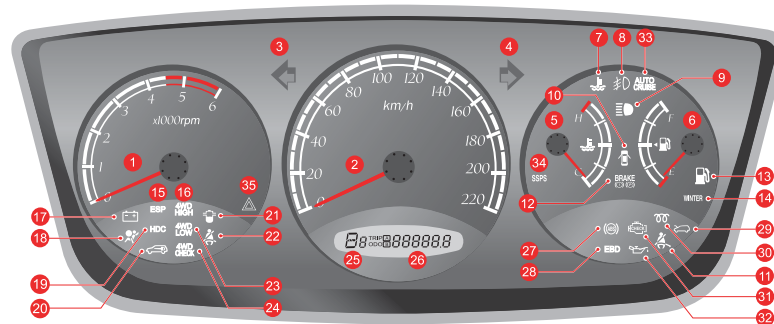
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INSTRUMENT CLUSTER

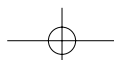
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|---|--|---|
| 1. Tachometer | 13. Low fuel level warning light | 25. Auto shift indicator (for automatic transmission) |
| 2. Speedometer | 14. Winter mode indicator | 26. ODOMeter/ Trip odometer |
| 3. Left turn signal indicator | 15. ESP warning light | 27. ABS warning light |
| 4. Right turn signal indicator | 16. 4WD HIGH indicator | 28. EBD warning light |
| 5. Engine coolant temperature gauge | 17. Battery charge warning light | 29. Engine hood open warning light |
| 6. Fuel gauge | 18. Air bag warning light | 30. Glow indicator |
| 7. Engine overheat warning light | 19. HDC indicator | 31. Engine check warning light |
| 8. Fog light indicator | 20. Immobilizer indicator | 32. Engine oil pressure warning light |
| 9. High beam indicator | 21. Water separator warning light | 33. Auto cruise indicator |
| 10. Door ajar warning light | 22. Seat belt reminder (driver's seat) | 34. SSPS warning light |
| 11. Seat belt reminder (passenger's seat) | 23. 4WD LOW indicator | 35. Hazard warning light (Eastern Europe only) |
| 12. Brake warning light | 24. 4WD CHECK warning light | |

5-2 INSTRUMENT CLUSTER

KYRON



TACHOMETER

Diesel

Gasoline



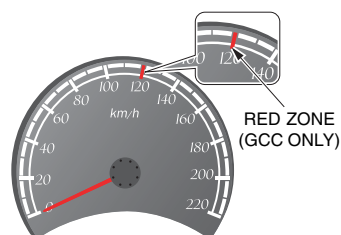
The tachometer indicates engine speed in revolutions per minute. Multiply 1,000 to the current number, then it will be the current number of engine revolutions.

Specified idle rpm

Diesel	D20DT	780 ± 50 rpm
	D27DT	750 ± 20 rpm
Gasoline		700 ± 50 rpm

⚠ WARNING
Do not let engine reach excessive speed, indicated by the pointer being in the red zone.

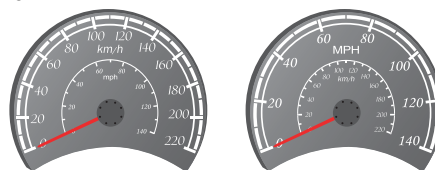
SPEEDOMETER



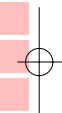
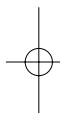
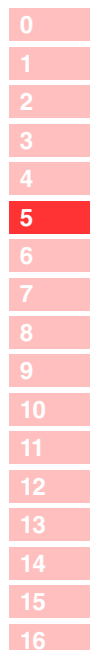
RED ZONE
(GCC ONLY)

The speedometer indicates the vehicle speed in kilometers per hour (km/h) or mile per hour (km/h).

NOTE



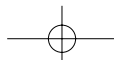
Speedometer-KPH (MPH) Speedometer-MPH (KPH)



KYRON

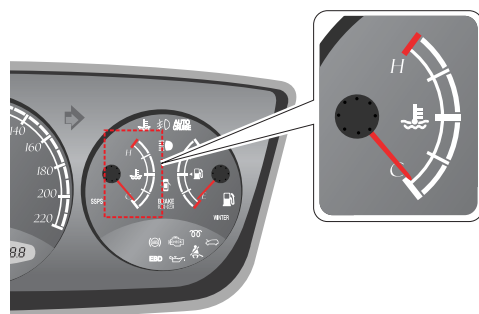
INSTRUMENT CLUSTER

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COOLANT TEMPERATURE GAUGE



The temperature gauge indicates the temperature of the engine coolant.

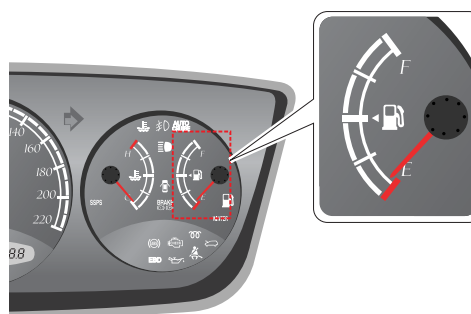
CAUTION

The engine can overheat.

- If the pointer reaches the red zone, stop the vehicle.
- Allow engine to cool.

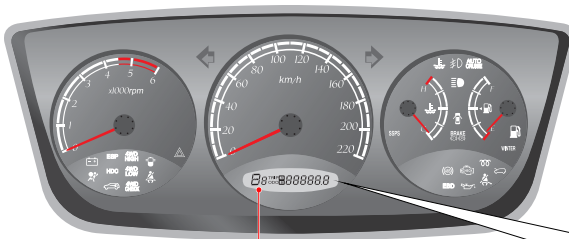
If the engine is overheated, continued operation of the vehicle may seriously damage the engine.

FUEL GAUGE



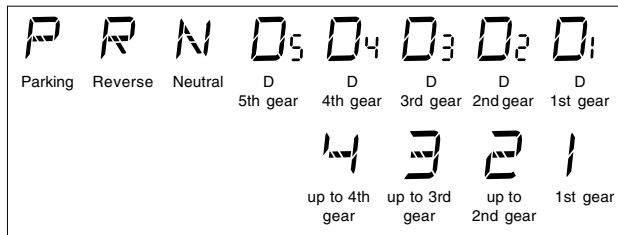
This gauge indicates the level of fuel remaining in the fuel tank. Fill up the fuel tank before the needle reaches "E".

DISPLAY



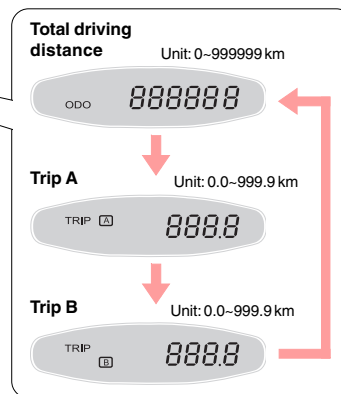
Auto Shift Indicator (for automatic transmission)

This indicator shows the automatic transmission selector lever position as below.

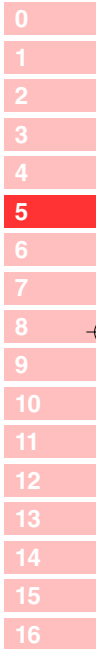


Odometer and Trip Odometer Display

Each time the TRIP/RESET switch on the center panel is pressed lightly, the indicators are changed. To reset the trip meter, press and hold the switch.



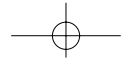
* If the meter cluster with "mile" unit is installed, trip/odo distance is displayed in "mile".



KYRON

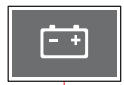
INSTRUMENT CLUSTER

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BATTERY CHARGE WARNING LIGHT



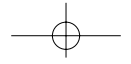
This warning light comes on when the ignition switch is turned on and it goes off when the engine is started. If this light doesn't go off after engine starting or comes on while driving, it means there is a malfunction in the system. Have the charging system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

AIR BAG WARNING LIGHT



When the ignition is switched on, this warning light illuminates and then should go off, to confirm that the air bag is operational. If it does not come on, or if it does not go off, or if it flashes or illuminates continuously while driving, it means that there is a malfunction in the system. Have the air bag system checked without delay by a Ssangyong Dealer or Ssangyong Authorized Service Center.

NOTE
For more detailed information, refer to the "Seat Belt and Air Bag" section.



ESP WARNING LIGHT

ESP



If you press the ESP_{OFF} switch, the ESP function stops and the indicator lamp in the instrument cluster comes on. If the ESP function operates, the indicator lamp flickers.

If the ESP warning light is on without any deactivation of the system, there are some malfunctions in the system. Take the vehicle to an authorized dealer or service operation.

For more information about ESP (Electronic Stability Program), refer to Chapter 4.

HDC INDICATOR

HDC



When the HDC switch is pressed once, HDC is ready for use. The green HDC indicator in the instrument cluster comes on. When the button is pressed again, HDC is deactivated and the indicator goes off.

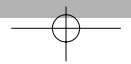
When HDC is applied, the green HDC indicator blinks.

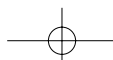
When the red HDC indicator is on, the HDC system is overheated or malfunctioning. For more information, refer to Chapter 4, HDC Switch.

CAUTION

If the red HDC indicator illuminates, HDC is overheated or malfunctioning. If the indicator is on even after the system has cooled down enough, have the nearest authorized dealer or service center check the system.

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IMMOBILIZER INDICATOR



This indicator comes on when the ignition key is communicating with the engine control unit (during engine starting) for 0.5 seconds.

The time needed for communication between the immobilizer key and ECU can vary. When the time is very short, the immobilizer indicator does not come on.

CAUTION

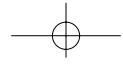
If this indicator blinks, it may indicate that there is something wrong in the immobilizer system. Have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

SEAT BELT REMINDER



When the ignition switch is turned to the "ON" position and the driver's seat belt is not fastened, the reminder light will come on and the seat belt warning chime will sound for 6 seconds. This reminding operation stops when the driver fastens the seat belt even during its operation period.

This seat belt reminder for passenger's seat operates in the same manner with the driver's.



SSPS WARNING LIGHT



This warning light comes on when the SSPS system is defective. When this warning light comes on, the steering effort becomes heavy.

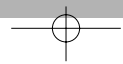
CAUTION
If this light comes on, have the SSPS system checked by Ssangyong Dealer or Ssangyong Authorized Service Operation.

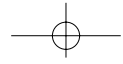
SSPS?*

In traditional constant power assist steering system, the steerability gets lighter as vehicle speed rises, and this may cause dangerous situation.

SSPS, by providing appropriate steerability to driver according to the changes of vehicle speed, gives steering stability. In other words, the steering wheel gets lighter by adjusting steerability in stop or low speed and provides steering stability by adjusting steering wheel to become heavier in high speed.

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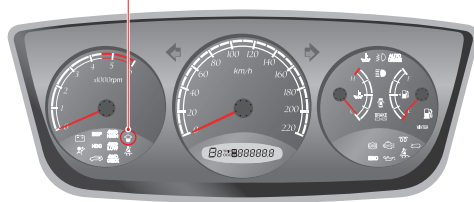




DIESEL ENGINE

0 WATER SEPARATOR WARNING LIGHT

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Water Separator Warning Light (Without additional water separator)

When the water level inside the water separator in the fuel filter exceeds a certain level, this warning light comes on and a buzzer sounds. Also, the driving force of the vehicle decreases. If these conditions occur, immediately drain the water from the fuel filter. For the draining procedures, please refer to "How to drain the water from the fuel filter (Without additional water separator)" on the next page.

This warning light goes off when the draining is completed.

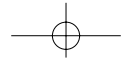
Water Separator Warning Light (With additional water separator)

When the water level inside the water separator exceeds a certain level, this warning light comes on and a buzzer sounds. Also, the driving force of the vehicle decreases. If these conditions occur, immediately drain the water from the fuel filter & water separator. For the draining procedures, refer to "How to drain the water from the fuel filter (With additional water separator)" on page 5-10.

This warning light goes off when the draining is completed.

CAUTIONS

- The fuel system in the engine may get serious damage if you keep driving while the warning light is on. Prompt correction should be necessary.
- Using low quality fuel could result in serious damage to the engine due to the water or impurities in fuel. Never use low quality fuel.
- Before starting the engine, pump fuel until the priming pump is fully filled after draining the water.
- When the water level inside the water separator in the fuel filter exceeds a certain level, this warning light comes on and a buzzer sounds. Also, the driving force of the vehicle decreases. If these conditions occur, immediately drain the water from fuel filter. If the above conditions still exist after draining the water, have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

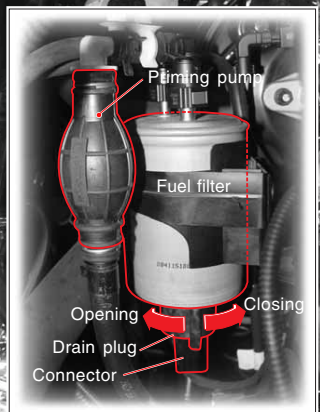
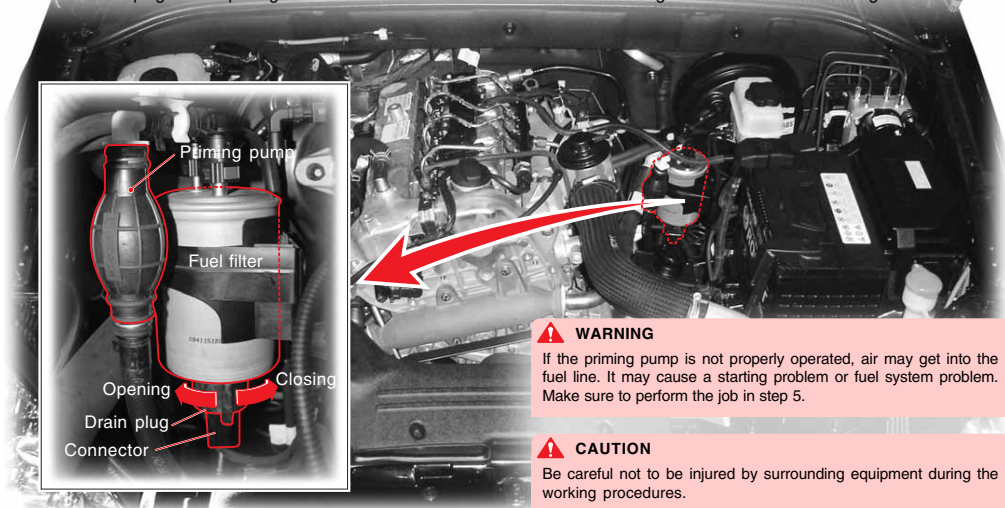


DIESEL ENGINE

HOW TO DRAIN THE WATER FROM THE FUEL FILTER (Without Additional Water Separator)

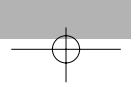
1. Locate the fuel filter in the engine compartment and place a water container under it.
2. Disconnect the connector under the drain plug of the water separator.
3. Turn the drain plug to the opening direction to drain the water.
4. Wait until a certain amount of fuel gets out from the port, then turn the drain plug to the closing direction to tighten it.
5. Engage the connector under the drain plug and press the priming pump until it becomes rigid.
6. Close the engine hood and start the engine.

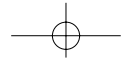
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WARNING
 If the priming pump is not properly operated, air may get into the fuel line. It may cause a starting problem or fuel system problem. Make sure to perform the job in step 5.

CAUTION
 Be careful not to be injured by surrounding equipment during the working procedures.

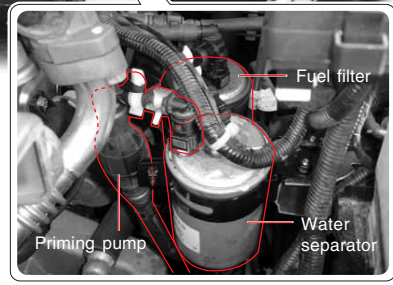
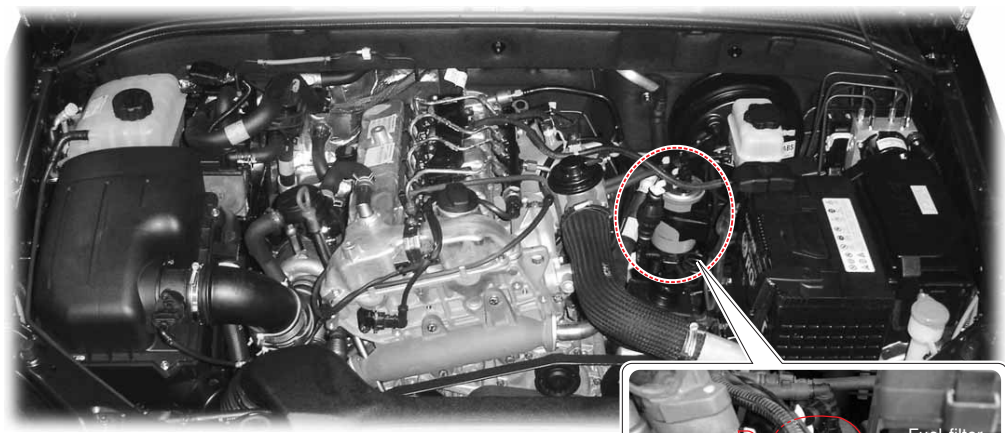




DIESEL ENGINE

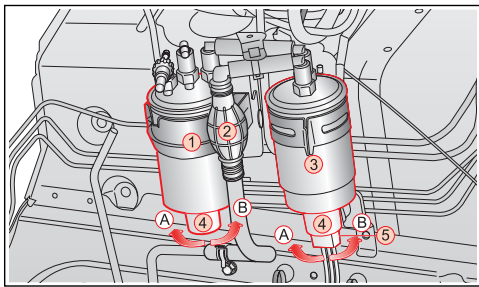
0 HOW TO DRAIN THE WATER FROM THE FUEL FILTER (With Additional Water Separator)

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CAUTION
 Drain the water from the fuel filter & water separator immediately after the warning light comes on. If you cannot do that by yourself, visit the nearest Ssangyong Dealer or Ssangyong Authorized Service Center.

WARNING
 The fuel system in the engine may get serious damage if you keep driving while the warning light is on. Prompt correction should be necessary.



1. Fuel filter
2. Priming pump
3. Water separator
4. Drain plug
5. Connector
- A. Opening direction of drain plug
- B. Closing direction of drain plug

1. Locate the fuel filter (1) & water separator (3) in the engine compartment.
2. Place the water container under the fuel filter & water separator.
3. Disconnect the connector under the drain plug (4) of the water separator.
4. Turn two drain plugs to the "A" direction to drain the water.
5. Press the priming pump until all water is drained. After draining, turn the drain plug until the gasket contact to the threaded plug hole, then tighten ("B" direction) it 1/2 turns by hand.

CAUTION

Be careful not to be injured by surrounding equipment during the working procedures.

6. Engage the connector under the drain plug and press the priming pump (2) until it becomes rigid.
7. Close the engine hood and start the engine.

WARNING

If the priming pump is not properly operated, air may get into the fuel line. It may cause a starting problem or a fuel system problem. Make sure to perform the job in step 6.

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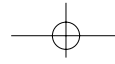
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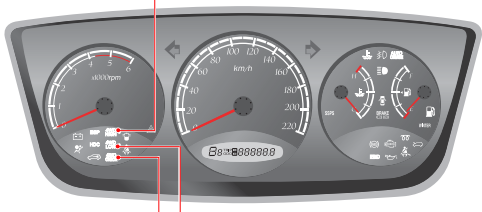
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0 4WD INDICATORS (PART TIME T/C ONLY)

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CAUTION

- If the "4WD CHECK" warning light stays on, have the 4WD system checked.
- Do not drive your vehicle over 80 km/h in 4H mode.

4WD High Indicator



When shifting the driving mode from "4L" to "4H", this indicator blinks until the shifting operation is completed. After completion of the mode change to 4H, the indicator comes on. Shift the driving mode from 2WD to 4WD HIGH only when the vehicle speed is under 70 km/h.

NOTE
When shifting the driving mode from 4WD LOW to 4WD HIGH, this indicator will blink until the shift is completed. After completion of the shifting operation, the indicator stays on. The indicator comes on without blinking when shifting from 2WD to 4WD HIGH.

4WD Low Indicator

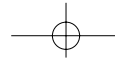


When shifting the driving mode to "4L", this indicator blinks until the shifting operation is completed. After completion of the mode change to 4L, the indicator comes on.

4WD Check Warning Light



This warning light comes on when the ignition switch is turned to "ON" and should go out if the system is normal. If the "4WD CHECK" warning light stays on, have the 4WD system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.



ENGINE OVERHEAT WARNING LIGHT



When the engine coolant temperature is abnormally hot, the engine overheat warning light blinks and a warning buzzer sounds. When this happens, stop the vehicle in a safe place and let the engine cool down. For more information, refer to Chapter 12 "When the engine is overheating."

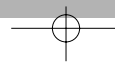
CAUTION
If you keep driving the vehicle with the warning light and buzzer on, the engine can be damaged. After completely cooling down the engine have an authorized dealer or service center check the vehicle.

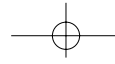
FRONT FOG LIGHT INDICATOR



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When the tail or head lights are on, the fog lights come on if the fog light switch is turned to the "ON" position. Then, the fog light indicator in the instrument cluster comes on.





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HIGH BEAM INDICATOR



This indicator illuminates when the high beam headlamp is switched on.

WARNING
 Driving with high beam headlamp disturbs the approaching vehicle's visibility. For safe driving, use the high beam headlamp only when it is very hard to see the road.

DOOR AJAR WARNING LIGHT

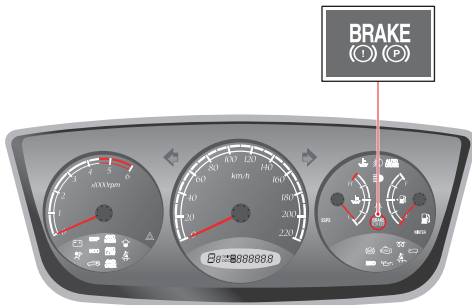


This light comes on when a door or the tailgate is either opened or not closed completely.

WARNING
 Driving with the door open can cause injury to people inside and outside the vehicle.

- Before driving off, close all doors.
- Check whether or not the light is off.

BRAKE WARNING LIGHT



This warning light comes on when the parking brake is applied and/or the brake fluid level is lower than a specified level.

CAUTION

If the vehicle is driven for over 2 seconds (over 10 km/h) while the parking brake is applied, the parking brake warning light comes on and a warning buzzer sounds. If it occurs, immediately stop the vehicle and release the parking brake.

WARNING

Driving the vehicle with the brake fluid warning light on is dangerous. If the parking brake light stays on, you must immediately have your vehicle checked and serviced by Ssangyong Dealer or Ssangyong Authorized Service Center.

LOW FUEL LEVEL WARNING LIGHT

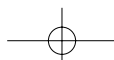


This warning light indicates that the fuel will soon be exhausted. The time it takes to turn on, however, varies according to the vehicle operation or road conditions. Do not wait until this light is on to refuel the vehicle. It is recommended that fuel should be added as soon as this light comes on.

CAUTION

While driving on steep hills or rough roads, this warning light may come on if the remaining fuel level is low.

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WINTER MODE INDICATOR



WINTER

The indicator comes on when the Winter mode (W) switch near the gear selector lever is pressed. Use this mode to drive off smoothly on an icy and slippery road.

GLOW INDICATOR (DIESEL ONLY)

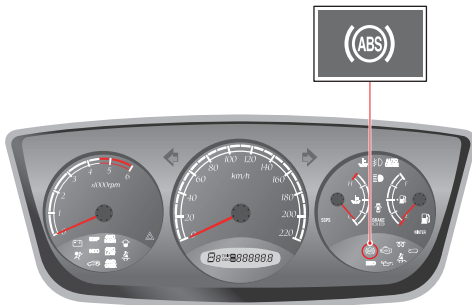


⊗

When the ignition switch is turned to "ON", this indicator comes on and stays for a short time or may go off right away. When the glow plugs are sufficiently heated, the light will go out. In the vehicle equipped with a direct injection type engine, this indicator may come on very shortly or may not even come on.

CAUTION
When the glow indicator comes on while driving or the engine cannot be started properly, have the glow plug system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

ABS WARNING LIGHT



When the ignition switch is turned "ON", this warning light comes on and goes out if the system is normal.

WARNING

- If this light doesn't come on when the ignition is switched to "ON" or if this light doesn't go out, contact your nearest Ssangyong Dealer or Ssangyong Authorized Service Center. If this light illuminates while driving, a malfunction of ABS is indicated. In this case the brake system performs its regular function but without the anti-locking capability. Have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center as soon as possible if this condition occurs.
- ABS is a device that prevents wheels from locking during braking to allow steering. However, the ABS system does not shorten the stopping distance.

CAUTION

When the engine starts and the vehicle starts to move, ABS performs self diagnosis by transferring hydraulic pressure to the braking units. This may cause some noise and vibrations. This means ABS is properly functioning.

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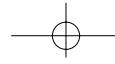
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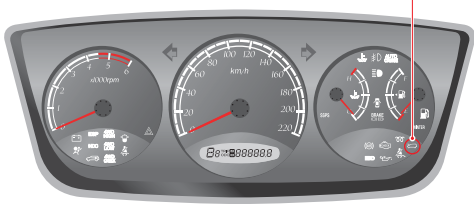
EBD WARNING LIGHT



When the ignition switch is turned to "ON", this warning light comes on and goes out if the system is normal. If the EBD system is abnormal, the EBD warning light stays on.

WARNING
If the EBD warning light stays on, have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

ENGINE HOOD OPEN WARNING LIGHT



This warning light comes on when the engine hood is open.

CAUTION
Do not operate the vehicle unless the engine hood is completely locked. Otherwise, the hood may be lifted by a strong wind, block driver's visibility, and cause an accident.

ENGINE CHECK WARNING LIGHT



If the light stays on or comes on while driving, some of the engine control components including sensors and devices are defective.

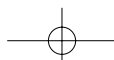
WARNING

If the engine halts due to a completely empty fuel tank and the engine check light comes on even after refueling, the engine's power output may decrease within a certain driving distance (about 30 km).

CAUTION

When this warning light comes on, the vehicle operates in safety mode to maintain minimum driving conditions and to prevent the system from being damaged. In this mode, the engine driving force may be decreased or the engine may stall. When this happens, have the system checked at the nearest Ssangyong Dealer or Ssangyong Authorized Service Center.

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ENGINE OIL PRESSURE WARNING LIGHT



This warning light comes on when the ignition is switched on and should go out when the engine is started.

CAUTION

If this light does not go off after engine starting or comes on while driving, it means there is a malfunction in the system. Running the engine with the oil pressure warning light on can cause serious damage to the engine. Have the lubricating system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

CRUISE CONTROL INDICATOR*



This indicator comes on when the cruise control is switched on.



Transmission and Brake System

6

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- Shift Lever in Manual Transmission 6-2
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- Driving Tips For Automatic Transmission .. 6-4
- Gear Selector Lever Positions 6-6
- Winter (W) / Standard (S) Mode 6-11
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- Parking Aid System 6-13
- Brake System 6-15
- Parking Brake Operation (Foot Operated Type: A/T Models) 6-20
- Parking Brake Operation (Hand Operated Type: M/T Models) 6-21

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SHIFT LEVER IN MANUAL TRANSMISSION

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The manual transmission in your vehicle has 5 forward gears and 1 reverse gear. To change gears, fully depress the clutch pedal. Then, move the gearshift lever into a desired gear. After shifting, release the clutch slowly.

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1st Gear

Position for driving off and high traction force

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Depress the clutch pedal to its deepest point and move the shift lever to "1". Then, slowly release the clutch pedal while gently depressing the accelerator pedal to drive off.

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Neutral Position

Position for engine start, vehicle stop, and parking

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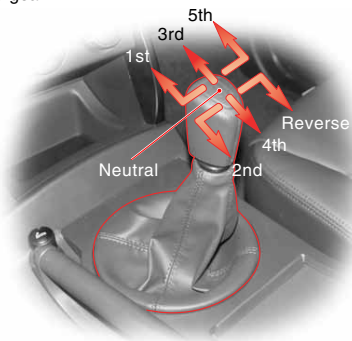
3rd Gear

For low- or mid-speed driving. Be careful to avoid any unwanted shift from the 2nd gear into the 5th gear, rather than the 3rd gear.

5th Gear

Position for very high speed driving on a highway

Be careful to avoid any unwanted shift from the 5th gear into the 2nd gear, rather than the 4th gear.



Reverse Gear

Position for reverse driving

4th Gear

Position for normal and high speed driving

2nd Gear

Position for low speed driving

6-2

TRANSMISSION AND BRAKE SYSTEM

KYRON

GEAR SELECTOR LEVER IN AUTOMATIC TRANSMISSION

Mode Switch

- **W** : Winter mode
- **S** : Standard mode

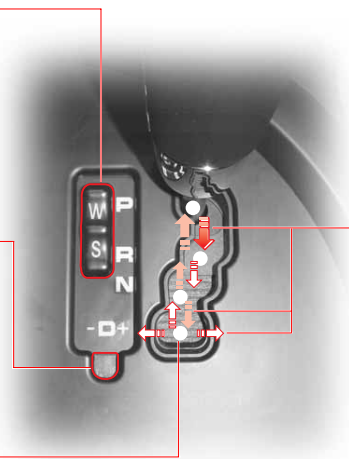
Use the standard mode in normal driving conditions.

Shift lock Release Button when locked in the "P" position

If you cannot move the selector lever from the "P" position, try to move the lever while pushing down here with a sharp object such as a ballpoint pen. For your safety, turn off the engine and depress the brake pedal before the attempt.

Adjustment for Shiftable Gear in "-D+"

The shiftable gear can be adjusted by moving the selector lever to left(-) or right(+).



To shift into any other position, depress the brake pedal. (The ignition switch should be in "ON".)



The shift lever moves only when the brake pedal is depressed.



The shift lever moves without depressing the brake pedal, however for safety reasons, the brake pedal should also be depressed.



Shift lever moves without depressing the brake pedal.

WARNING

- To shift into "-D+" from the "N" position after stopping the vehicle, you have to depress the brake pedal. Make sure that the shift indicator "D1" is coming-on before driving off.
- When beginning to drive from a complete stop, depress the brake pedal for your safety before shifting gears.
- Never depress the accelerator pedal when moving the gear selector lever.
- If you have to stop on a hill, depress the brake pedal securely.

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DRIVING TIPS FOR AUTOMATIC TRANSMISSION

0 Starting and Driving Off

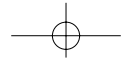
1. Always start the engine while the selector lever is in "P" and the brake pedal is depressed. For your safety, avoid starting the engine from "N" even though you can do so.
2. Check whether or not the engine speed is in a normal operating range (below 1,000 rpm). Keep the brake pedal depressed and shift into "-D+" or "R".
3. Do not drive off or sharply accelerate the vehicle after shifting into the "-D+" position. Wait for a while several seconds before driving off with the brake pedal depressed.
4. To move the vehicle, release the brake pedal and depress the accelerator pedal gradually.

8 Creep Phenomenon

Without any depression of the accelerator pedal, your vehicle can move slowly if the selector lever is in any position other than "P" or "N". This is called the creep effect. You can control your vehicle's movement by only applying the brake in heavy traffic or narrow areas.

! CAUTION

- When starting the engine with the accelerator depressed, your vehicle may abruptly move and cause an accident.
- When the parking brake is released while the engine is running at a high rpm, your vehicle may abruptly move. Therefore, wait until the engine speed becomes stable.
- Do not abruptly drive off or sharply accelerate the vehicle after shifting into "-D+". Otherwise the transmission will be damaged. Especially, when you start off on a hill after stopping and parking the vehicle, wait for a while until the "D1" shift indicator comes on for several seconds with the brake pedal depressed.
- On a steep decline or incline, your vehicle may move in the opposite direction of the intended direction in spite of the creep effect. When stopping on a steep hill, always depress the brake pedal.
- Never move the selector lever to the "N" position while driving. By doing so, the engine brake cannot be applied. This may result in unwanted accidents.



Kickdown Function
 If you need to accelerate rapidly, depress the accelerator pedal completely to the floor. Then, a one- or two-lever gear will automatically be engaged. This is called the Kickdown function.

Engine Brake
 When the accelerator pedal is released while the vehicle is in motion, the engine speed decreases. This decreased engine speed creates an extra braking force. On a down hill, engaging a lower gear can generate a slower engine speed and eventually slow down the vehicle speed. By using this engine brake, you can decrease your vehicle speed without excessively using the brake system. The lower gear, the more braking force.

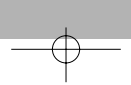
CAUTION

- Do not use the kickdown operation while driving on slippery or sharply curved roads.
- If you use the kickdown function too frequently, the durability and fuel economy of the vehicle will get worse.
- Do not excessively apply the brake pedal while going down a long hill. The brake system will overheat, experience vapor lock or the fade phenomenon, and lose the braking force.
- Be aware that the engine brake does not work when the gear selector lever is in the "N" position.
- Avoid any abrupt engine braking on slippery roads, or the tires may slip.

CAUTION

- When driving on a down hill, never shift the selector lever to "N". If you try to shift the lever to "D" from "N", a sudden gear engagement can damage the driving train.
- Even though you can start the engine with the selector lever in both "P" or "N", for your safety, always start the engine with the selector lever in "P".
- To avoid any mechanical damages or accidents, never shift into "P" or "N" while the vehicle is in motion.
- As a safety function, the gear selector lever cannot be moved into the "P" or "R" position when the vehicle speed exceeds 7-10 km/h.
- Never shift into "R" when the vehicle is moving.
- When driving at a high speed, any sudden attempt to shift from a higher to a lower gear can severely damage the vehicle. In addition, your vehicle may lose its stability and be at a high risk.

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GEAR SELECTOR LEVER POSITIONS

0 P: PARK POSITION



Use this position to park your vehicle, warm up the engine, or stay in a location for an extended length of time.

To shift into any other position, depress the brake pedal.

12 **WARNING**

- Never shift into “P” when the vehicle is moving, or the transmission will be damaged.
- Stop the vehicle completely before shifting into “P”.
- To shift from the “P” position to another position, the ignition switch must be turned to “ON” and the brake pedal should be depressed. Any forcible attempts to move the selector lever from “P” without the two procedures may damage the selector lever.

8 R: REVERSE POSITION



- Use this position to reverse the vehicle.

To shift into “R” from “P” or “N”, completely stop the vehicle and depress the brake pedal. When the shift lever is in “R”, parking aid system will be activated (if equipped).

13 **WARNING**

- Never shift into “R” when the vehicle is moving.
- Please note that the vehicle may slowly move rearward when the selector lever is at “R”.

15 **CAUTION**

As a safety function, the gear selector lever cannot be moved into “P” or “R” when the vehicle speed is above 7~10 km/h.

SHIFT LEVER LOCK RELEASE



To shift from “P”, the ignition switch must be turned to **ON** and the brake pedal must be depressed.

If you cannot shift out of “P”, check the followings:

- The ignition key is in “ON”.
- The brake pedal is depressed.



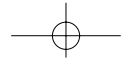
If you cannot shift out of “P” with the ignition switch in **ON**, and the brake pedal depressed:

1. Apply the parking brake firmly and turn the ignition off.
2. Depress the brake pedal and push down the shift lock release lever with a stick such as a pen. Then, shift the lever to “N”.
3. Start the engine, release the parking brake, and place the selector lever at “-D+”.

⚠ WARNING

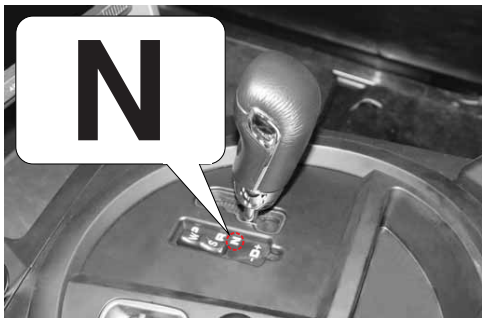
If this happens, have your vehicle repaired by the nearest Ssangyong dealer or Ssangyong Authorized Service Center as soon as possible.

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N: NEUTRAL POSITION

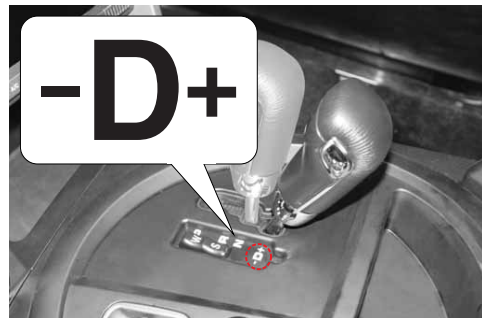


At this position, the engine does not transfer power to the wheels and the vehicle will not move. However, for safety, apply the brake while at rest.

To shift into “-D+” or “R” from the “N” position after stopping the vehicle, you have to depress the brake pedal.

- ⚠ WARNING**
- Never shift into “N” from the “-D+” position or vice versa when the vehicle is moving, or the transmission will be damaged.
 - If you have to stop on a hill and would like to use this neutral position, depress the brake pedal firmly.
 - Never attempt to move the gear selector lever to “N” when the vehicle is in motion.

-D+: DRIVE POSITION



• Use this position for normal driving conditions. The transmission is automatically shifted from **1st** gear up to **5th** gears according to the level of depression on the accelerator pedal.

- ⚠ WARNING**
- Do not abruptly drive off or sharply accelerate the vehicle after shifting into “-D+”, or the transmission will be damaged. Especially, when you start off on a hill after stopping and parking the vehicle, wait for a while until the “D1” shift indicator comes on with the brake pedal depressed.
 - Even while the gear is in “-D+”, the vehicle can roll down an uphill according to the gradients, so you have to depress the brake pedal.

⚠ CAUTION
Please note that the vehicle may slowly move forward on level ground when the selector lever is in “-D+”.

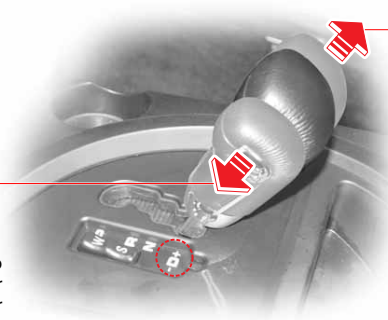
ADJUSTMENT FOR THE SHIFTABLE GEAR IN “-D+”

The shiftable gear is down/up by one step as the lever is moved to the left(-)/right(+) direction.

Downshift

1 ← 2 ← 3 ← 4 ← D

- ▶ When the lever is pushed to the left, the one-step lower gear can be selected per push.
- ▶ When the lever is pushed to the left and held, the gear will be automatically downshifted to a proper gear according to the vehicle speed and the accelerator pedal switch.



Upshift

1 → 2 → 3 → 4 → D

- ▶ When the lever is pushed to the right, the one-step higher gear can be selected per push.
- ▶ When the lever is pushed to the right and held, the gear will be automatically upshifted to a proper “D” according to the vehicle speed and the accelerator pedal switch.

CAUTION

- When pushing and holding the selector lever to the left (-)/right (+), the gear may be shifted through several steps in series. Make sure to shift one step at a time.
- If you apply excessive force when moving the lever to the left (-)/right (+), the gear may not be shifted into other gears. Soft and smooth operation is recommended.
- Please note that the gear may be upshifted if you fully depress the accelerator pedal while driving with 1st, 2nd, 3rd, and 4th gear.

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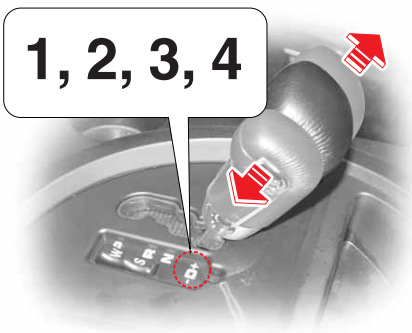
KYRON

TRANSMISSION AND BRAKE SYSTEM

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WARNING

- If you touch the selector lever unexpectedly while driving, the shiftable gear may be changed. It can make the vehicle unstable. Be careful not to touch the selector lever while driving (especially during the winter season).
- Do not downshift abruptly (3, 2, or 1) when the vehicle speed is high (D or 4). You could lose control and hit people or objects (especially on a slippery road).
- If low-range maximum speeds are exceeded when the selector lever is in low gears, the transmission can be damaged.

1

- In this position, you can only use the 1st gear in the transmission. Use this position on long mountainous terrains, steep hills, and rough off-road. This also provides the engine brake effect on steep downhills.

2

- The drive position prevents the transmission from shifting into the third or fourth gear. Select drive range 2 for more power when climbing hills, for the engine braking effects when driving down steep hills.

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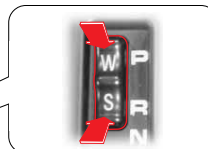
- At this position, the transmission is automatically shifted from the 1st gear up to the 3rd gear according to the vehicle speed. You can get the engine brake effect when using this position during downhill driving.

4

- Select this position for normal forward driving on paved roads. In this position, the transmission is automatically shifted from the 1st gear up to the 4th gear according to the vehicle speed.

WINTER (W) / STANDARD (S) MODE

MODE SWITCH



Use the standard mode in normal driving conditions and use the winter mode on slippery roads.

How to start off the vehicle with 2nd forward/reverse gear

1. Press the "W" portion of the mode switch to select the winter mode.
2. Place the selector lever to "-D+" and check if the shift lever indicator shows "D2".
3. You can now start off the vehicle with the 2nd forward gear.
4. Place the selector lever to the "R" position to start off the vehicle with the 2nd reverse gear.

Standard Mode (S)

- Use the standard mode in normal driving conditions.

Winter Mode (W)

- To select the winter mode, press "W" on the mode switch. The "WINTER" indicator in the instrument cluster comes on.
- In this mode, the vehicle can start from the 2nd gear (forward and reverse). Use this mode in the event of starting-off on slippery roads.

CAUTION

Do not use the winter mode on normal driving conditions.

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SAFETY MODE (AUTOMATIC TRANSMISSION)

0 SYMPTOMS

1 When the transmission has an electrical or mechanical fault, the transmission operates in the safety mode to maintain minimum driving conditions and to prevent the transmission from being damaged.

2 When the transmission is defective, the symptoms that can occur are as follows:

- 3 • Instrument cluster displays “D” other than “D₁” even when the gear selector lever is in “-D+” Position.
- 4 • Heavy shock when moving the selector lever
- 5 • Decreased driving force while driving at high speed
- 6 • Fixed gear position during driving

8 RESETTING THE SAFETY MODE

9 How to reset the safety mode

- 10 1. Park the vehicle and place the selector lever to “P”.
- 11 2. Stop the engine and wait for more than 10 seconds.
- 12 3. Start the engine.

12 Symptoms after resetting the safety mode

- 13 • If the vehicle operates normally after resetting, the problems are corrected.
- 14 • If gear is fixed at the 2nd forward gear in the “-D+” position or the 2nd reverse gear in “R”. Have the system checked by a Ssangyong dealer or Ssangyong Authorized Service Center.

⚠ CAUTION

- If you find any symptoms caused by mechanical or electrical defects in the transmission, stop the vehicle immediately and reset the safety mode.
- If abnormal operation of the transmission (fixed at the 2nd forward gear in “-D+” or 2nd reverse gear in “R”) still exists, have the system checked by a Ssangyong dealer or Ssangyong Authorized Service Center.
- If the mechanical or electrical problem still exists, have the system checked by a Ssangyong dealer or Ssangyong Authorized Service Center.

PARKING AID SYSTEM

When the gear selector lever is shifted into "R", the parking aid system is activated and the sensors in the rear bumper detect the distance to any obstacle. You can figure out the distance from the obstacle to your vehicle by the alarming sound. The alarm interval becomes faster as your vehicle approaches the object.



Obstacle Detecting Sensor

When you move the gear selector lever to "R", the alarm sounds according to the distance from obstacle to vehicle.



Distance	Alarm interval
over 1.2 m	no alarm
80 cm ~ 1.2 m	approx. 2.6 sec
51 cm ~ 80 cm	approx. 1.3 sec
25 cm ~ 50 cm	alarm stays on

CAUTION

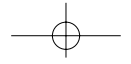
- The alarm does not sound if the distance between sensor and obstacle is less than 25 cm. However, if the sensor detects the obvious obstacle, the alarm stays on.
- Do not rely on the parking aid system while gear selector lever is in "R" position. Drive backward while checking the rear side of your vehicle.
- If the buzzer sounds abnormally or sounds for over 3 seconds when placing the gear selector lever to "R" position, the parking aid system is defective. Have the system checked at Ssangyong Dealer or Ssangyong Authorized Service center.



KYRON

TRANSMISSION AND BRAKE SYSTEM

6-13



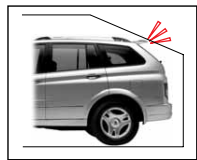
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CAUTION

You should continue to utilize the mirrors or turning your head. When reversing, adhere to the common precautions.

- The parking aid system is a supplementary system to help your parking. It is not intended to replace the driver's attentiveness.
- Do not press or shock the sensors by hitting or using a high-pressure water gun while washing. The sensors could be damaged.
- Normally, when you select the "R" position with the ignition "ON", the alarm sounds "beep" once.
- If the alarm sounds for 3 seconds when you select the "R" position with the engine running or the ignition "ON", it means that there is a malfunction in the system. Have the parking aid system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

In the parking lot as shown in the figure, the upper portion of the vehicle can be hit before the sensor operation, so check with the outside rearview mirrors or by turning your head during parking.



The alarm interval becomes faster as your vehicle approaches the obstacle.

► **Certain obstacles that sensors cannot detect**

- Thin and narrow objects, such as wires, ropes, or chains
- Cotton, sponge, clothes, snow that absorb ultrasonic waves.
- Obstacles lower than the bumper: Drainage or puddle

► **Sensor Cannot Detect**

- When the sensing portion is frozen.
- When the sensing portion is covered by rain, water drops, snow or mud.

► **Weak Sensing Scopes**

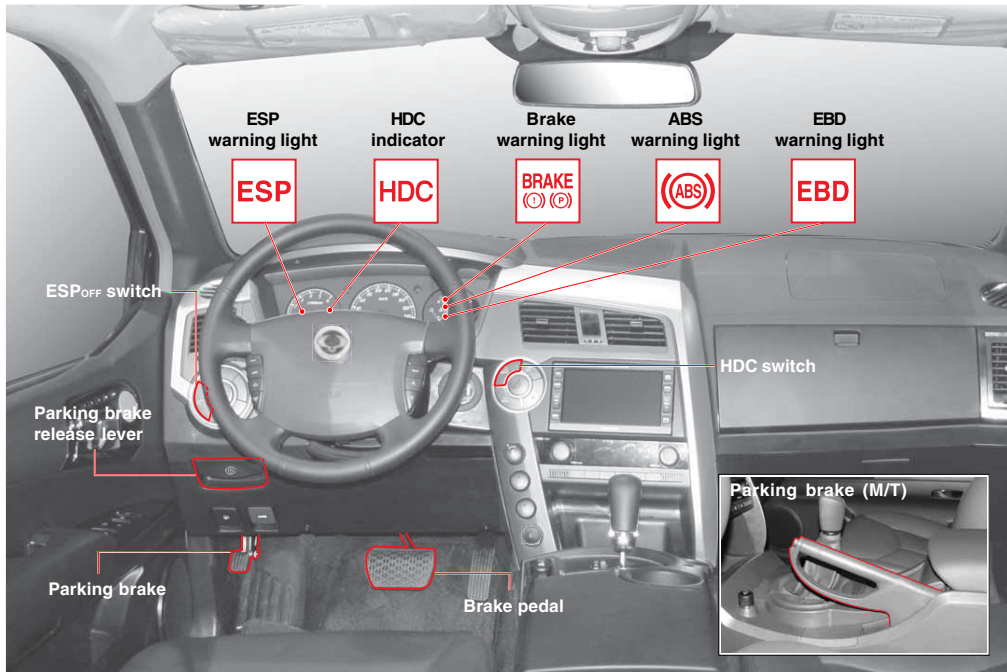
- When they are partially covered by snow or mud.
- When the ambient temperature is too high or too low.

► **Not defective but improperly working**

- When driving on rough roads, gravel roads, hills, or grass.
- When the bumper height is changed due to a heavy load.
- When receiving other ultrasonic signals (metal sounds or air braking noises from heavy commercial vehicles).
- When a high-power radio is turned on.
- When the sensor is hindered by improperly fitted accessories.



BRAKE SYSTEM

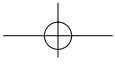


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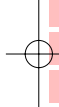
KYRON

TRANSMISSION AND BRAKE SYSTEM

6-15



0	 BRAKE PEDAL (FOOT BRAKE)
1	The brake pedal (foot brake) is designed to decrease the vehicle speed and stop the vehicle. Do not excessively apply the brake pedal while going down a long hill. The brake system will overheat causing the vapor lock or fade phenomenon thus losing braking force. Use the foot brake along with the engine braking effects by selecting lower gears.
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5	 CAUTION Avoid abrupt engine braking on slippery roads, or the tires may slip.
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7	 Engine brake?
8	A system that allows for the slowing of a vehicle that is independent of the conventional braking systems. A driver would normally down-shift to slow the driver's descent of a hill, using engine compression. The engine brake increases the effectiveness of this regarding force.
9	
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11	 Fade?
12	Reduction or loss in braking force due to loss of friction between brake pads and disc.
13	 Vapor Lock?
14	When the brake system is overheated, the fluid in the brake lines will boil and form bubbles. Only the bubbles will be compressed when the brake pedal is depressed. So the brakes cannot work properly due to loss of braking force.
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BRAKE WARNING LIGHT



Illuminating

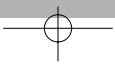
This warning light comes on when the parking brake is applied and/or the brake fluid level is lower than a specified level.

Flashing

If the vehicle is driven for over 2 seconds (at a speed of 10 km/h or higher) while the parking brake is applied, the parking brake warning light flickers and the warning buzzer sounds. If it occurs, immediately stop the vehicle and release the parking brake.

Drive System Safety Function

While driving, do not depress the brake pedal when the accelerator pedal is depressed. Otherwise, the response from the accelerator pedal may be delayed. This symptom is the safety function to protect the vehicle's drive system. This symptom can be eliminated if you depress and release the accelerator pedal one time when the brake pedal is not depressed.



ESP_{OFF} SWITCH*



ESP_{OFF} switch is pressed, the ESP function stops and the vehicle is driven independently from the sensor outputs.

Resuming ESP Function

When the ESP warning lamp is on, push the ESP_{OFF} switch again to re-activate ESP. The system will be resumed and the ESP warning lamp on the instrument cluster goes out.

ESP SYSTEM?

The ESP system is an electronic vehicle stability control and safe driving system and driving safety supplementary system that helps to avoid dangerous situations by controlling the brakes on the wheels or the engine torque to compensate vehicle stability when it is extremely unstable under conditions such as sharp cornering.

Stopping ESP Function

If the driving wheels slip on snowy or icy roads, the engine rpm may not be increased even when you depress the accelerator pedal, and accordingly, you may not be able to move your vehicle. In this case, stop the ESP function by pressing the ESP_{OFF} switch. When the

ESP WARNING LIGHT*

Turning on of ESP Warning Lamp

If you press the ESP_{OFF} switch, the ESP function stops and the indicator lamp in the instrument cluster comes on. Press this switch again to resume the ESP function. At this time, the indicator lamp goes out.

ESP Warning Lamp Flickering

If the ESP function operates while driving, the indicator lamp flickers and the alarm sounds.

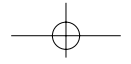
WARNING

If the ESP warning light comes on, the ESP related system is defective. Make sure to check the vehicle at the nearest Ssangyong Dealer or Ssangyong Authorized Service Center.

CAUTION

The vehicle equipped with ABS or ESP performs self-diagnosis on the system when the engine is started and drives off. During the diagnosis, brake pedal vibration and noise may be noticeable when the motor discharges the hydraulic pressure from the internal hydraulic device. This means that ABS or ESP is properly functioning.

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HDC SWITCH*



When this button is pressed once, HDC is ready for use. The green HDC indicator in the instrument cluster comes on. When the button is pressed again, HDC is deactivated and the indicator goes off.

HDC Operation

When HDC is activated and all operational conditions are met, HDC is applied and the green HDC indicator blinks. HDC automatically decreases the vehicle speed to 7 km/h. HDC automatically stops at speeds less than 7 km/h or . It is normal to have strong vibrations and noise from the brake system when HDC is applied.

NOTE
For more information about HDC operation and deactivation conditions and how to use the accelerator and brake pedals, refer to Chapter 4 "HDC Switch."

HDC (Hill Descent Control)?

HDC stands for Hill Descent Control. When traveling down steep grades, this function allows you to travel at a low speed without depressing the brake pedal. This convenient function is only for driving down steep grades. Therefore do not use this function for anything other than driving down steep hills.

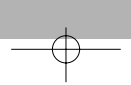
HDC INDICATOR*



Green light on: HDC is ready for use (by pressing the HDC switch).
Green light blinking: HDC is being applied.
Red light on: the HDC system is overheated or malfunctioning.

CAUTION

- Unnecessary usage of HDC can cause malfunctions in the brake system or ESP. Do not use HDC when driving on normal roads.
- If driving on a level road with HDC on and ready for use, HDC may be applied during sharp cornering or passing over a speed bump. Therefore, do not activate HDC while driving on normal roads.
- If the red HDC indicator illuminates, HDC is overheated or malfunctioning. If the indicator is on even after the system has cooled down enough, have the nearest authorized dealer or service center check the system.
- It is normal to have strong vibrations and noise from the brake system when HDC is applied.
- When driving down an extremely dangerous steep grade, HDC will still work even if the brake or accelerator pedal is depressed.



ABS WARNING LIGHT*



When the ignition switch is turned "ON", this warning light comes on and goes out if the system is normal.

WARNING

- If this light doesn't come on when the ignition is switched on or if this light doesn't go out, contact your nearest Ssangyong Dealer or Ssangyong Authorized Service Center. If this light illuminates while driving, a malfunction of ABS is indicated.
- ABS is a device that prevents wheels from locking during braking to allow steering. However, the ABS system does not shorten the stopping distance.

CAUTION

When the engine starts and the vehicle starts to move, ABS performs self diagnosis by transferring hydraulic pressure to the braking units. This may cause some noise and vibrations. This means ABS is properly functioning.

ABS (Anti-Lock Brake System)?

When braking suddenly or braking on slippery roads, the vehicle keeps moving forward but the wheels are locking and not rotating. If these happen, your vehicle may lose stability or rotate resulting in an accident. ABS helps to maintain directional stability and control of the vehicle.

EBD WARNING LIGHT*



When the ignition switch is turned to "ON", this warning light comes on and goes out if the system is normal.

CAUTION

If the EBD warning light stays on, have the system checked at the Ssangyong Dealer or Ssangyong Authorized Service Center.

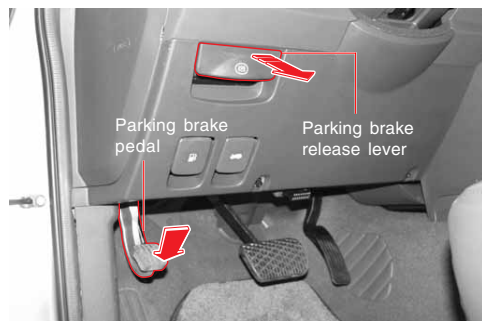
EBD (Electronic Brake-force Distribution)?

When the brake pedal is applied, it controls the braking pressure electronically to effectively distribute the braking forces to the front wheels and rear wheels. EBD operates when the speed differences between the most fast front wheel and the rear wheel are over 1 km/h. If ABS is engaged, it does not operate.

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PARKING BRAKE OPERATION (FOOT OPERATED TYPE: A/T MODELS)

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Warning Light and Warning Sound When Driving While the Parking Brake is Engaged



If you drive the vehicle without releasing the parking brake, the brake warning light blinks and the buzzer sounds to warn the driver when the vehicle speed exceeds 10 km/h for more than 2 seconds. When this happens, stop the vehicle immediately and release the parking brake.

Parking Brake Operation

Park at a safe place and depress the parking brake pedal firmly. When the pedal is depressed, the brake warning light (BRAKE) on the instrument cluster comes on.

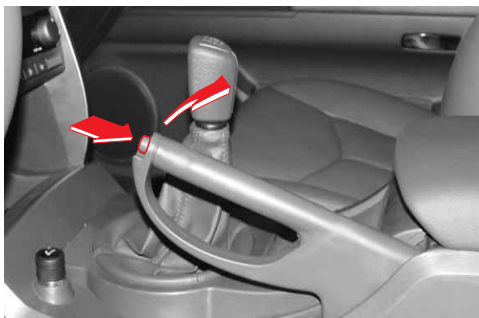
Parking Brake Release

To release the parking brake, pull up the parking brake release lever.


CAUTION

- Before driving off, be sure to check that the brake warning light is turned off.
- Driving with the parking brake applied could damage the rear brake system. Before driving, fully release the parking brake.
- If the brake warning light (BRAKE) doesn't go out after releasing the parking brake, have the brake system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

PARKING BRAKE OPERATION (HAND OPERATED TYPE: M/T MODELS)



Parking Brake Operation

Park your vehicle at a safe place and pull up the parking brake lever. Then, the parking brake warning light () comes on.

Parking Brake Release


Lift up the brake lever a little and press the release button at the end of the lever. Then, push down the lever.

Warning Light and Warning Sound When Driving While the Parking Brake is Engaged

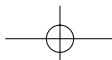


If you drive the vehicle without releasing the parking brake, the brake warning light blinks and the buzzer sounds to warn the driver when the vehicle speed exceeds 10 km/h for more than 2 seconds. When this happens, stop the vehicle immediately and release the parking brake.

CAUTION

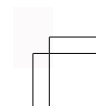
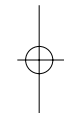
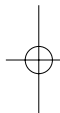
- Before driving off, be sure to check that the brake warning light is turned off.
- Driving with the parking brake applied could damage the rear brake system. Before driving, fully release the parking brake.
- If the brake warning light () doesn't go out after releasing the parking brake, have the brake system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

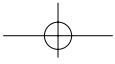
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MEMO

Lined area for writing a memo, consisting of multiple horizontal lines.





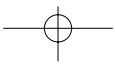
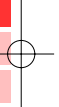
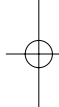
Seats

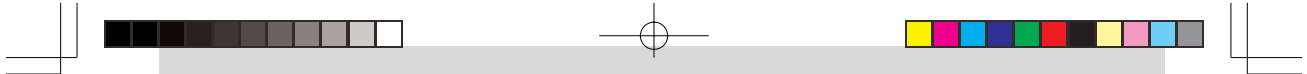
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DRIVER'S SEAT (POWER SEAT)*

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WARNING
Do not adjust the driver's seat when the vehicle is moving. Control of the vehicle can be lost.



Head Restraint Adjustment



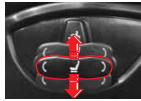
To raise the head restraint, pull it up without pressing the release button. To lower the head restraint, press the release button (1) on top of the seatback and push the head restraint down.

WARNING
Removed or improperly adjusted head restraints can result in serious head and neck injuries in case of a collision.

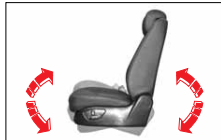
Seat Slide Adjustment



Seat Height Adjustment

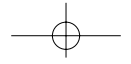


Seat Tilt Adjustment



Seatback Reclining Adjustment



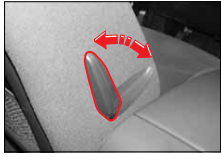


Seatback Pocket



There is a storage pocket for storing small items.

Lumbar Support (Driver's Seat)



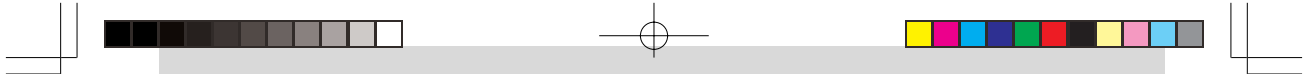
Turn the lever forward to increase the amount of lumbar support. To decrease it, turn the lever backward.



Seat Heater (If equipped)

By operating the seat heater switch, you can heat the seat cushion and seatback.

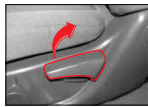
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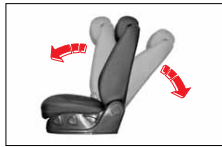
DRIVER'S SEAT (MANUAL SEAT)

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Seatback Reclining Adjustment



To change the seatback angle, lean forward slightly and raise the lever. Then, lean back to the desired angle and release the lever. After adjusting, make sure the lever is returned to its original position and the seatback is locked.



Head Restraint Adjustment

Same as that of the power seat

Lumbar Support

Same as that of the power seat

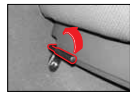
Seatback Pocket

Same as that of the power seat

Seat Heater*

Same as that of the power seat

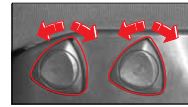
Seat Slide Adjustment



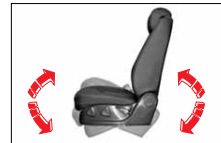
To move the seat forward or backward, pull and hold the seat slide lever up and move the seat as desired. Then, release the lever.



Seat Height Adjustment



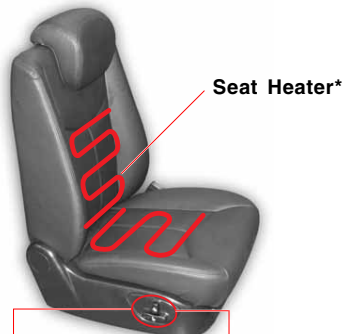
You can adjust the angle and height of the front or rear section of the seat cushion by rotating the adjustment knob on the side of the seat clockwise or counterclockwise.





PASSENGER'S SEAT

Power Seat*



Seatback Reclining Adjustment



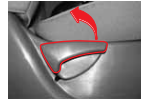
Seat Slide Adjustment



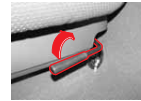
Manual Seat



Seatback Reclining Adjustment



Seat Slide Adjustment



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KYRON

SEATS

7-5

POSITION MEMORY SETTING*

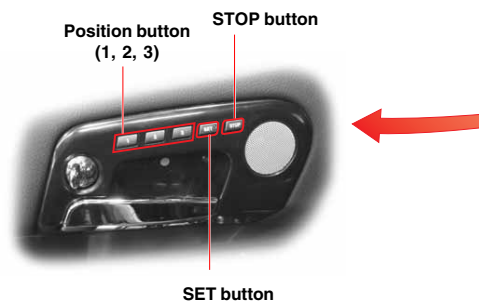
0 The position memory is available for up to three drivers. Each driver can set his/ her own driver's seat, outside rearview mirrors. The information will individually be stored in the integrated computer. If somebody has moved the seat, the memory positions can be recalled automatically by pressing the position button.

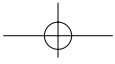
To Store the Memory Settings

1. Position the transmission shift lever to "P" with the ignition switch "ON" (for your safety, do not start the engine). In case of a manual transmission vehicle, you must apply the parking brake too.
2. Adjust the driver's seat and outside rearview mirrors to the desired positions.
3. Press the (SET) switch. The indicator on the switch comes on.
4. Within 5 seconds, press one of the position buttons (1), (2), (3) you want to set. When the memory setting is completed, a buzzer sounds twice.

To Recall the Memory Settings

1. Press and hold one of the position buttons (1), (2), (3) you want until the buzzer sounds.
2. The driver's seat and outside rear view mirrors start to move to the stored positions. If you drive off during this recalling process, this automatic memory setting stops operating.
3. Wait until they stop moving.
4. When the process is completed, a buzzer sounds twice.

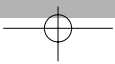




CAUTION

- CAUTION**
- If you adjust your seat or any outside rearview mirrors in the middle of setting up or recall of the memory, the setup or recall is cancelled and stops operating.
 - In case of an automatic transmission vehicle, this function will not work if the parking brake is not engaged and the gear selector lever is in "P".
 - In case of a manual transmission vehicle, this function will not work if the parking brake is not engaged.
 - If you do not press any position button within 5 seconds after pressing the "SET" button, the memory process will be cancelled.
 - If the same position button is pressed again after the initial press of the button, a buzzer sounds three times instead of movement of your seat. If the position memory function is not available due to the failures in the motor or sensor, the buzzer sounds three times.

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SECOND ROW SEAT

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Head Restraint Adjustment

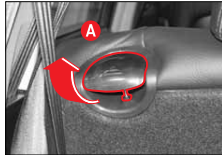


To raise the head restraint, pull it up without pressing the release button. To lower the head restraint, press the release button (B) on top of seatback and push the head restraint down.

WARNING

Removed or improperly adjusted head restraints can result in serious head and neck injuries in case of a collision.

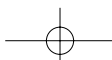
Seatback Reclining Adjustment



To change the seatback angle, lean forward slightly and raise the lever (A). Then, lean back to the desired angle and release the lever. After adjusting, make sure the lever is returned to its original position and the seatback is locked.

WARNING

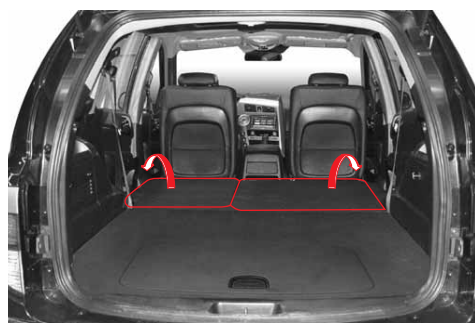
When the seatback is released from its holding latch, the seatback can completely be folded. Ensure that none of your body parts are trapped.



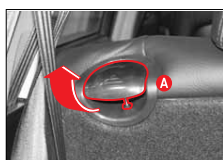
FULL FLATTING THE SEAT



1. Pull up the second row seatback folding levers (A).



2. To make a full flat cargo room, fold the second row seatbacks until they click. Make sure that the seatbacks are locked.
3. To raise up the second row seatbacks, release the levers up (A) and raise up the seatbacks.



CAUTION

- If you put sharp or heavy objects on the seatbacks, there might be some damage to the seatbacks or even to the seats.
- Without completely lowering the second row head restraints or with excessively tilted front seatbacks, there may be some damage to the head restraints or the center console if the second row seats are folded.

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KYRON

SEATS 7-9

SEAT HEATING SYSTEM*

0 Heated cushions and seatbacks create a pleasant driving environment by expelling chilliness on the surface of the seats.

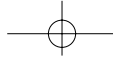


7 **Driver's seat heating switch**

8 **Passenger's seat heating switch**

9 Press the switch to heat the seat and press again to stop the seat heating. During heating, the indicator light on the switch comes on.



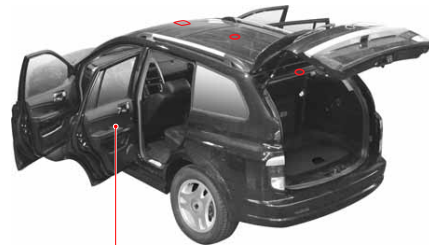


WARNING

- Do not operate the seat heater for a long time when the passenger is an infant, child, old or handicapped person, person with sensitive skin, person under the influence of alcohol, or excessively fatigued person. They might receive minor burns.
- If your skin is in contact with the heated seat for a long time, you might get low temperature burns. Be careful.
- Do not put anything on the seat that insulates heat, such as a blanket, cushion or seat cover.
- If the temperature continues to rise, turn the switch off and have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- In the case of the driver's seat, an excessive usage of the heated seat might make you sleepy and could negatively affect your safety.
- Do not place anything sharp on the seat. This may cause damage to the seat heater.



REAR SEAT HEATING SWITCH*

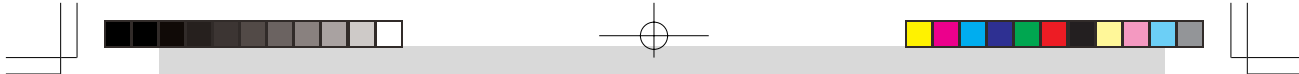


Rear seat heating switch

Rear seat heating switch

Press the switch to heat the seat and press again to stop the seat heating. During heating, the indicator light on the switch comes on.

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WARNING AND CAUTION

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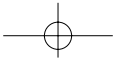
WARNING AND CAUTION

WARNING

- All necessary driver's seat adjustments should be made before any driving.
- Make sure that your seat is completely locked after adjusting.
- Any object that might damage the seat should not be placed on the seat.
- Front seats are equipped with heated lines. If the following types of persons sit on the heated seats, they might receive minor burns. Extra caution is needed for them: children, elderly persons, ill persons, persons with sensitive skin, excessively fatigued persons, persons under the influence of alcohol or sleep-inducing medication such as cold medicine or sleeping pills.
- Do not put anything on the seat that insulates heat, such as a blanket, cushion or seat cover.
- Removed or improperly adjusted head restraints can result in serious head and neck injuries in case of a collision. Make sure that the head restraints are in place and adjusted before driving.
- Do not recline the seatback more than needed for comfort while vehicle is in motion. The seat belt is the most effective when the passenger sits back and straight up in the seat. If the seatback is reclined too much, then the risks of sliding under the lap belt and getting injured are increased.

CAUTION

- Power seats will be operated even when the ignition switch is turned to the "OFF" position. However, to prevent battery discharge, operate your seats when the engine is running.
- Do not use two or more seat adjustment buttons simultaneously. It can damage the motor. Be sure to operate the electric seat button one by one.
- When cleaning leather seats, never use oil-based solvents such as benzene, alcohol, gasoline, or thinner. Or they will cause discoloration and dull the surface of the seats.
- Do not forcibly operate any power adjustment switch if the seat comes in contact with other object and cannot be adjusted anymore.
- If the power seats are not operational, the seats should be checked and fixed before any driving.



Seat Belt and Air Bag

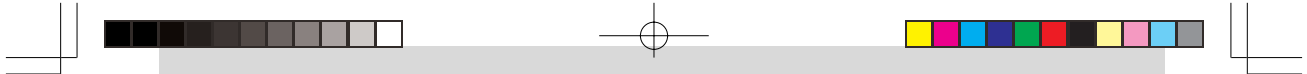
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- Seat Belt 8-4
- How to Fasten the Three Point Seat Belt .. 8-5
- How to Fasten the Seat Belts in
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- Warnings for Air Bag 8-16

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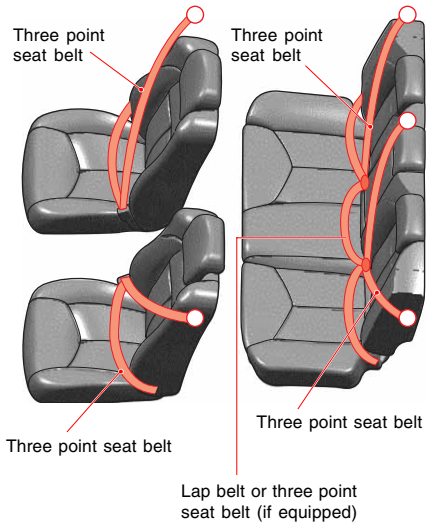




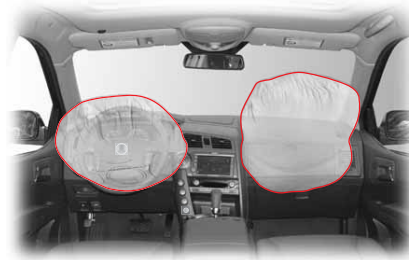
SEAT BELT AND AIR BAG

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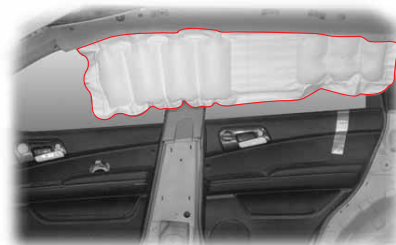
To protect you and your passengers in the event of an accident, it is highly recommended that the seat belts should be used by all occupants inside of your vehicle.

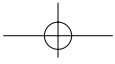


Front Air Bags



Curtain Air Bag





The Restraint Systems Include:

- Air bags
- Seat belts
- Seat belt pretensioners (for front seat)

As independent systems, their protective functions complement one another.

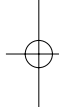
Fastening the seat belt

When seat belts are not used or improperly worn, they may not only work as designed, but also cause some injuries to occupants. In addition, air bags can protect occupants when the occupants are wearing their seat belts. Air bags may cause injuries to occupants if they do not wear or inappropriately use their seat belts.

⚠ WARNING

- Before driving, all occupants should fasten their seat belts. If not, the occupants can seriously be injured in a collision or sudden maneuvering of the vehicle.
- Each seat belt should be used by only one occupant at a time.
- Seat belts and air bags can significantly minimize possible injury to occupants. But they cannot perfectly protect occupants from fatal collisions or injury.
- Modifications and improper maintenance for the safety systems could cause serious injury. The safety systems including seat belts should be checked and repaired by only a Ssangyong Dealer or Ssangyong Authorized Service Center.
- An infant or small child should always be restrained in an infant or child restraint.

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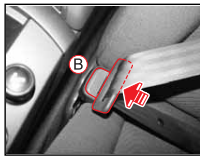


SEAT BELT

SEAT BELT IN FRONT SEATS

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Fastening the Seat Belt



- Insert the metal latch plate into the buckle until it clicks.
- To unfasten the seat belt, press the button **B** on the buckle.



Seat Belt Height Adjustment

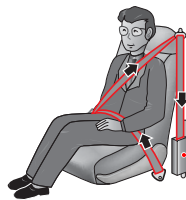


- To raise the seat belt, slide the seat belt height adjuster up.
- To lower the seat belt, press the **A** button and slide it down.

WARNING

- Adjust the seat belt height before driving.
- Shoulder belt should be positioned midway over the shoulder, never across the neck.

Pretensioner (for Front Seat)



When a severe frontal impact occurs, seat belt pretensioners rewind the seat belts immediately to restrain the occupants to their seats. It helps the effective operation of the seat belts and airbags.

HOW TO FASTEN THE THREE POINT SEAT BELT



1. Pull out the latch plate from the retractor. If the seat belt is locked when being pulled out, rewind it completely in the retractor, then pull it out to the desired length.



2. Position the shoulder belt across the body and the lap belt as low as possible across the hips. Insert the latch plate into the buckle until it clicks.
3. Adjust the seat belt height as needed.

CAUTION

Sit back in the seat with the seatback in an upright position and wear the seat belt.

WARNING

Make sure that the seat belt webbing is not twisted.



4. Pull the latch plate to make sure it is securely locked. A slack belt will greatly reduce the protection afforded to the wearer.
5. To unfasten the seat belt, press the red button on the buckle.

WARNING

Improperly worn seat belts could cause serious injury or death.

- Put the lap belt as low as possible across the hips. Do not put it across the waist. In an accident, the belt may apply pressure to your abdomen. This may cause internal injuries.
- The shoulder belt should be positioned midway over the shoulder, never across the neck.

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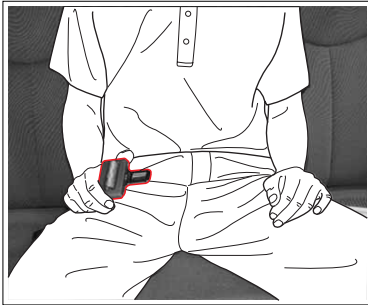
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HOW TO FASTEN THE SEAT BELTS IN SECOND ROW CENTER SEAT

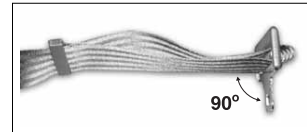
LAP BELT (GENERAL)



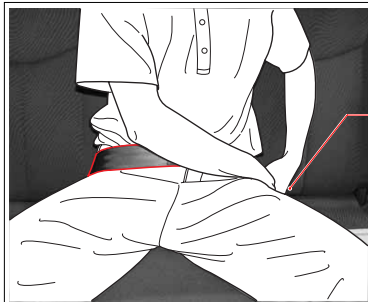
1. Pull out the latch plate at the right of the seat.

WARNING

Put the lap belt as low as possible across the hips. Do not put it across waist. In an accident, the belt may apply pressure to your abdomen. This may cause serious internal injuries.



To lengthen, hold the metal latch plate at a right angle to the belt and pull the belt. To shorten, pull the free end of the belt away from the latch plate, then pull the belt clip to take up the slack.



2. Insert the metal latch plate into the buckle until it clicks. Position the belt as low as possible across your hips, not across your abdomen.



3. If the belt is too tight or slack on your hips, readjust the belt.
4. To unfasten the seat belt, press the red button on the buckle.

REAR THREE POINT SEAT BELT*



1. Pull out the smaller latch plate (B) from upper retractor (1).
2. Insert it into the black buckle (2) until it clicks.
3. Pull out the bigger latch plate (A) and position the seat belt across your shoulder, chest and hips.
4. Insert it into the buckle (2) until it clicks.

⚠ WARNING

- Make sure to fasten the seat belt according to the order as described so that it functions properly.
- To prevent the seat belt from bumping against the rear glass, unfasten the seat belt while holding it.
- This seat belt is designed only for a passenger who sits on the center seat in the rear seat.
- Tug on the seat belt to make sure that the latch plate is securely locked.
- Make sure that the seat belt is not twisted.
- Improper wearing of seat belts increases the chance of injury or death in case of a collision.
- Position the seat belt away from your neck and abdomen.

⚠ CAUTION

Stow the seat belt into the console when it is not in use.

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KYRON

SEAT BELT AND AIR BAG

8-7

CHILD RESTRAINTS AND PREGNANT WOMAN

0 PREGNANT WOMEN

1 We recommend that pregnant women
2 use the seat belts throughout their
3 pregnancy. Keeping the mother safe is
4 the best way to keep the baby safe.

4 **WARNING**

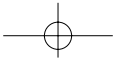
- Pregnant women should wear the lap part of the belt across the thighs and as snug across the hips as possible.
- Keep the belt low so that it does not come across the abdomen. That way the strong bones of the hips will take the force if there is a collision.

CHILD RESTRAINTS

When transporting infants or small children, an appropriate child restraint system should always be used. The child restraint system should be appropriate for your child's weight and height and properly fit the car's seat. Accident statistics indicate that children are safer when properly restrained in the rear seat rather than in the front seat.

WARNING

- Infants and tiny children should always be restrained in an infant or child restraint.
- NEVER INSTALL A REAR-FACING CHILD RESTRAINT IN THE FRONT SEAT WITH FRONT PASSENGER AIR BAG.
- A child in a rear-facing child restraint installed in the front seat can be seriously injured if the front passenger air bag inflates. Secure a rear-facing child restraint in the rear seat.
- A front-facing child restraint should be secured in the rear seat whenever possible. If installed in the front passenger seat, adjust the seat as far back as it will go.
- When installing a child restraint system, follow the instructions provided by the manufacturer.
- When your child restraint is not in use, secure it in the vehicle with the seat belt or remove it from the vehicle.
- In a collision an unrestrained child, even a tiny baby, can become a missile inside the vehicle. The force required to hold even an infant on your lap can become so great that you could not hold the child, no matter how strong you are.
- Do not allow a child in the cargo areas while the vehicle is moving.
- If the shoulder belt contacts the face or neck, move the child closer to the center of the vehicle. Never allow a child to put the shoulder belt under an arm or behind their back.
- Please note that the three point seat belt is designed for a person who is taller than 140 cm.



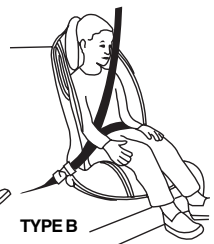
Rear-facing child seat



Forward-facing child seat

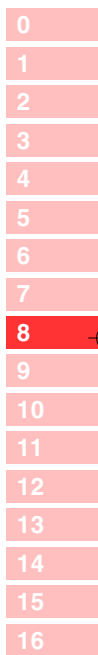


TYPE A



TYPE B

Booster seat



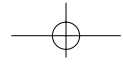
Mass Group	Restraint Device Figure	Front seat	Rear center seat	Rear side seat	Mounting Method of Vehicle
O ~ up to 10 kg (0 ~ 9 month)	Rear facing child seat	X	X	U	3-point belt rear-facing
O+ ~ up to 13 kg (0 ~ 2 year)	Rear facing child seat	X	X	U	3-point belt rear-facing
I ~ 9 to 18 kg (9 month ~ 4 year)	Forward facing child seat	UF	UF	U	2-or 3-point belt
II & III ~ 15 to 36 kg (4 year ~ 12 years)	Booster seat	UF	UF	U	2-or 3-point

U: Suitable for "universal" category restraints approved for use in the mass group.
 UF: Suitable for forward-facing "universal" category restraints approved for use in the mass group.
 L: Suitable for particular child restraints given on attached list. These restraints may be of the "semi-universal" categories.
 X: Seat position not suitable for children in the mass group.

WARNINGS FOR SEAT BELT

⚠ WARNINGS FOR SEAT BELT

- Always put on your shoulder belt over the shoulder and across the chest. Do not put the shoulder belt across your neck.
- Put the lap belt as low as possible across the hips. Do not put it across the waist. In an accident, the belt may apply pressure to your abdomen.
- Do not wear the shoulder belt under the arm. It increases the danger of sliding out of the belt and can cause serious injury or even death. The belt may also tighten the chest which is not as strong as the shoulders. This may also result in serious internal injuries.
- Do not lock the seat belt with a clip or a clamp. If the seat belt is too loose, it may not protect your body from injury or death in an accident.
- Before driving, all occupants should wear the seat belts. Otherwise, occupants could be seriously injured in collisions or sudden maneuvers. In many countries, there are regulations regarding the use of the seat belts. Please observe local laws and regulations.
- Do not buck up two or more persons with one seat belt.
- Do not wear the seat belt over any hard or breakable objects in pockets or on clothes.
- An infant and tiny child must be restrained in a child restraint system. Note that the three point seat belt is designed for a person who is taller than 140 cm.
- Periodically check that the seat belt and its components work properly. A damaged seat belt can cause serious injuries. Repair or replace the damaged seat belt immediately at a Ssangyong Dealer or Ssangyong Authorized Service Center.
- The warning light comes on whenever the ignition is switched on. The light goes out when the driver's seat belt is securely fastened. If the light does not go off after fastening the seat belt, it means that there is a malfunction in the system. Have the seat belt system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- Additional devices or accessories on the seat belt may result in improper operation. Do not add any adjusting devices which restrict the seat belt operation.
- Periodically inspect all parts of the belt and have the damaged parts replaced. The belt that has been overstretched in an accident must be replaced with a new one. Ssangyong recommends replacing all component parts of the seat belt after a collision. No replacement is required after a minor collision if a Ssangyong Dealer or Ssangyong Authorized Service Center finds that no damage has occurred and everything is in proper working order. The seat belt components that were not used during a collision must also be inspected and replaced if they show signs of damage or faulty operation.

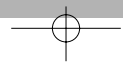


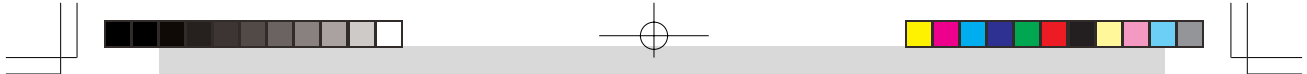
⚠ WARNINGS FOR SEAT BELT

- Replace the entire seat belt assembly after a severe impact even if the damage is not obvious.
- Never modify the seat belt.
- Always keep the seat belts clean and dry. Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Use mild soap and water for cleaning. The seat belt must be replaced if webbing becomes frayed, contaminated or damaged.
- Adjust the seat properly before wearing the seat belt.
- Sit back in the seat with the seatback in an upright position and wear the seat belt. If the seat belt is positioned too high or fastened too loose, it may not protect your body from an injury or death in the event of a collision.
- Do not recline the seatback more than needed for comfort while vehicle is in use. Seat belt is the most effective when the passenger sits back and straight up in the seat. If the seatback is reclined too much, then the risks of sliding under the lap belt and getting injured are increased.
- If the latch plate is inserted into a wrong buckle, the belt may exert pressure on your abdomen instead of your pelvis. This may cause serious internal injury.
- If the seat belt is twisted, there will not be enough contact of the belt to spread the impact pressure.
- Make sure that the latch plate is securely locked.
- When pregnant women use the seat belt, consult with a doctor for specific recommendations.

- Keep the buckle clean.
- Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the hips, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.
- Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.
- Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.
- It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.
- Belts should not be worn with straps twisted.
- Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.
- No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

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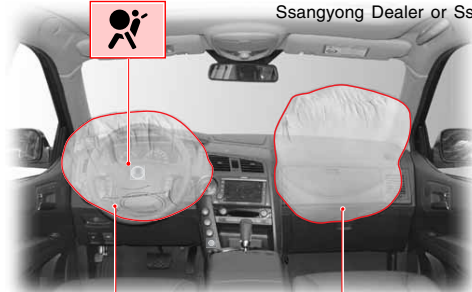
AIR BAG

The air bag Supplemental Restraint System (SRS) can provide additional protection for the driver and passenger in the event of a collision.

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Air Bag Warning Light

If this lamp does not go out after engine starting or comes on while driving, it means that there is a malfunction in the system. Have the air bag system checked immediately by a Ssangyong Dealer or Ssangyong Authorized Service Center.



Driver's Air Bag

The driver's air bag is located at center of the steering wheel.

Passenger's Air Bag*

The front passenger's air bag is located on the dashboard.

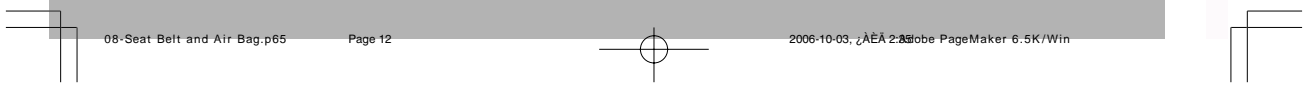
Side Curtain Air Bag*

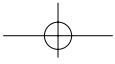
The side curtain air bags are contained between right above the front and rear doors and the end of the vehicle roof. The side curtain air bag is designed to inflate only in an impact to the side of the vehicle and protect occupants' heads.



Pretensioner (for Front Seat)

When a severe frontal impact occurs, seat belt pretensioners rewind the seat belts immediately to restrain the occupants to their seats. It helps the effective operation of the seat belts and airbags.





SRS AIR BAG

The Supplemental Restraint System air bag is designed to supplement the seat belts and provide the driver and front passenger with protection against head, chest, and other injuries in the event of a collision. For maximum protection, seat belts should always be worn by all occupants. Therefore, the SRS is not a substitute for the seat belts, but supplemental.

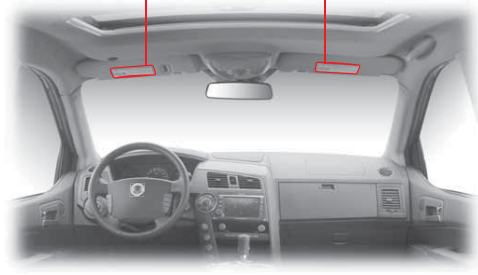
⚠ WARNING

- The air bag system serves as a supplement to the seat belt. Make sure you and your passengers always wear seat belts properly, even if air bags are installed in the vehicle.
- Depending on the severity or the angle of impact, the air bag may not deploy.
- The driver's and front passenger's air bags simultaneously deploy.

⚠ CAUTION

If you see "SRS" on a certain area, the air bag is contained underneath it. Therefore, do not apply any impact upon it and never place any accessories or objects on the area. And avoid any direct contact with the area.

Locations of Air Bag Warning Labels

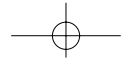


⚠ WARNING

As a reminder of possible dangers of the air bag, air bag warning labels are affixed on the driver's and front passenger's sun visors.

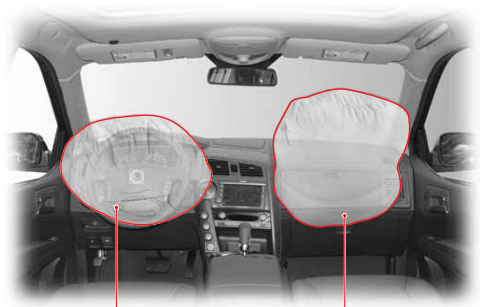
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FRONT AIR BAGS



Driver's Air Bag

The driver's air bag is located at center of the steering wheel.

Passenger's Air Bag*

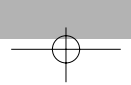
The front passenger's air bag is located on the dashboard.

Pretensioner (for Front Seat)

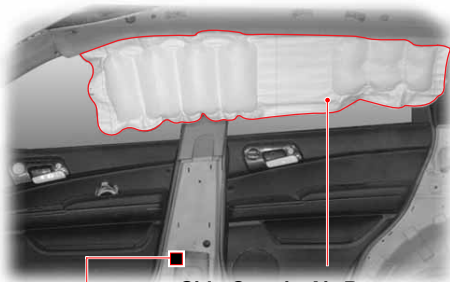
When front air bags deploy, the seat belt pretensioners simultaneously work too.

Air Bag Operation

- ▶ **The air bag inflates when:**
 - In response to a severe frontal impact, the driver's and front passenger's air bags deploy at the same time to supplement the seat belts to prevent or reduce any personal injuries.
- ▶ **The air bag can inflate when:**
 - Underbody impact from the road surface; impact against the curb at a very high speed; dropping impact onto the road surface with a large angle
- ▶ **The air bag does not inflate when:**
 - Rollover, side impact or rear impact
 - If the severity of impact to the vehicle is not significant and the seat belts are enough to protect occupants.
- ▶ **The air bag seldom inflates when:**
 - Oblique impact, rollover
 - Weak impact in which the sensor is unable to detect (under the inflation requirements)
 - Impact against narrow objects such as a utility pole or a tree
 - The vehicle falls into a drainage or a puddle
 - The front of the vehicle crashes into a high impact point vehicle such as a truck
 - Impact on the hood by falling stones
 - The air bag warning lamp is on
 - Moderate or severe impact to the middle of the vehicle body's side structure. In that case, only the side curtain air bags deploy.



CURTAIN AIR BAG*



Side Curtain Air Bag

Curtain Air Bag Sensor

This is located at the bottom of the B pillar.

The side curtain air bags are contained between right above the front and rear doors and the end of the vehicle roof. The side curtain air bag is designed to inflate only in an impact to the side of the vehicle and protect occupants' heads.

⚠ WARNING

- Do not apply any impact on the side curtain sensor. The air bag might deploy.
- Depending on the severity or the angle of impact, the side air bag may not deploy.
- Do not bang the door. The side air bag might deploy.
- Even though the front air bags and the pretensioners work at the same time, the side curtain air bags only deploy in a moderate to severe impact to the middle of the vehicle body's side structure.

Curtain Air Bag Operation

► The air bag inflates when:

- A moderate to severe impact to the middle of the vehicle body's side structure.

► The air bag can inflate when:

- Vehicle rolls onto its side and causes a severe side impact.

► The air bag does not inflate when:

- Frontal collision while vehicle stops or is moving at a low speed.
- Rear end collision
- If the severity of impact to the vehicle is not significant.

► The air bag seldom inflates when:

- Oblique impact (diagonal direction)
- Frontal impact or rear impact
- Rollover but without a severe impact
- The air bag warning lamp is on

AIR BAG INSPECTION

The air bag system should be inspected 10 years from its installation regardless of its appearance and other conditions.

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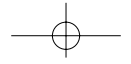
SEAT BELT AND AIR BAG

8-15

WARNINGS FOR AIR BAG

⚠ WARNINGS FOR AIR BAG (I)

- Do not diagnose the circuit with a circuit tester. Do not attempt to modify any air bag components including the steering wheel, air bag mounting area, and harness.
- Incorrect air bag inspection can be dangerous and cause injuries. The air bag system must be disposed only by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- Replace the steering wheel with only Ssangyong genuine parts.
- When the engine starts, the air bag warning lamp comes on for a system check. It goes out after 6 seconds when the system is normal. If this warning lamp stays on then the system may be defective. Have the air bag system checked immediately by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- Never let small children or infants sit in the front passenger seat or be held in your arms. When the front air bags deploy, they could be seriously injured or killed.
- The child restraint system should be installed in the rear seat.
- The child restraint system must not be placed on the front seat. The infant or child can severely be injured by an air bag inflation in case of an accident.
- The seat belt and air bags are the most effective when you sit well back and upright in the seat.
- Do not move your seat too close to the steering wheel or dashboard. If you lower your head, the air bag can hit your head during inflation and can cause severe injury or even death.
- Do not impact any air bag components including the steering wheel, air bag mounting area, and harness by hand or tools. You may get injured by sudden deployment.
- The air bag contains explosive materials, so contact a Ssangyong Dealer or Ssangyong Authorized Service Center when trashing or replacing it.
- The air bag components will be very hot after deployment. Do not touch them.
- Once the air bag system is triggered, the triggered air bag assembly should be removed from the vehicle and replaced with a new one.
- Do not attach any objects such as a sticker, scent bottle, or phone holder on the steering wheel pad and to the dashboard.
- Do not lean against the window or door or do not stretch your arm through the window frame. If the side curtain air bag deploys, you will be at great risk.
- Do not place any objects between the side curtain air bags and occupants. The object may prevent the air bag from deploying or can be shot at you.

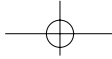


⚠ WARNINGS FOR AIR BAG (II)

- Do not bang the door. The front or side curtain air bags might deploy.
- Hold only the outer rim of the steering so that the air bag can inflate without any hindrance.
- Do not hold and operate the steering wheel by crossing your arms. You could get seriously injured when the air bag deploys.
- Do not place your face or chest near the steering wheel and dashboard. Also, do not allow anyone to place their hands, leg or face on the dashboard. The air bag cannot work properly.
- When the air bag inflates, it makes a loud noise and smoke. However, the smoke is a non-toxic nitrogen gas.
- When the air bag deploys, non-toxic gas will come out. This gas may cause skin, eyes or nose irritation. Wash it out with cold and clean water and consult your doctor if irritation continues.
- The windshield glass may be broken when the passenger's air bag deploys.
- When any repairs are needed for the steering wheel, or when an accident occurred without the air bag deployment, have the air bag system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- You could suffer secondary injuries caused by an inflated air bag such as an abrasion, a burn or injuries by broken glass. Non-toxic gas will come out when the air bag is inflated.
- If the severity of impact to the vehicle is not significant and the seat belts are enough to protect occupants, the air bags do not deploy to prevent any secondary injuries such as cuts, abrasions, or burns.
- The air bag system should be inspected 10 years from its installation regardless of its appearance and conditions.

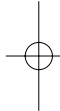
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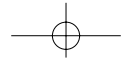




MEMO

Lined area for notes, consisting of 15 horizontal lines.





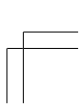
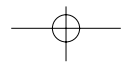
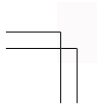
Ventilation, Heating, Air Conditioning and Air Purification System

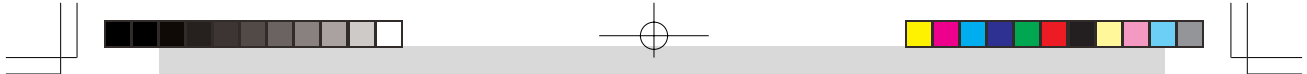
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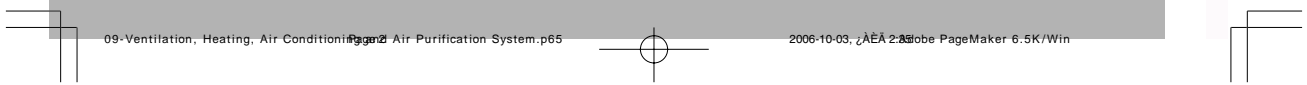
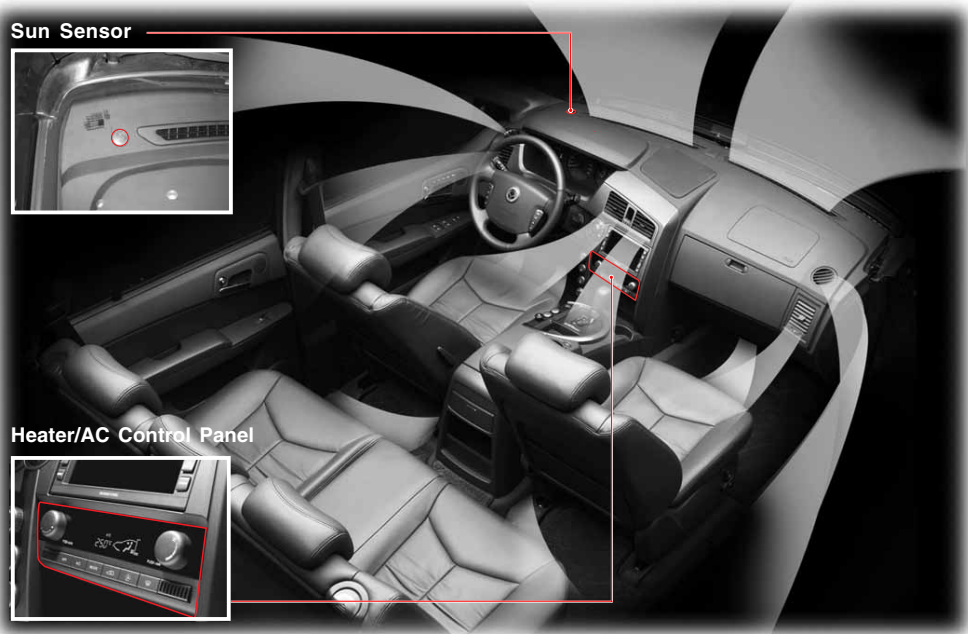
HEATER/AIR CONDITIONER SYSTEM

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Sun Sensor

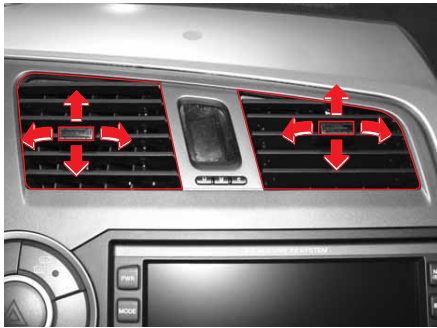


Heater/AC Control Panel



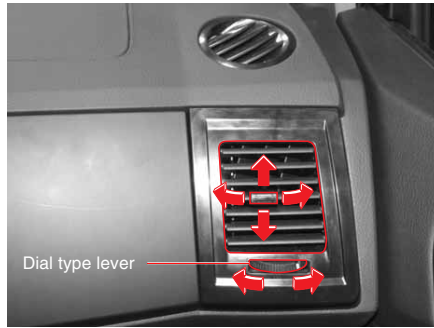


Front Center Vent



You can adjust the direction of the airflow by moving the knob horizontally or vertically.

Front Side Vent



You can adjust the direction of the airflow by moving the airflow direction control lever on the air outlet.

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WARNINGS AND CAUTIONS

0 Refrigerant Specification & Capacity

1	Item	
2	Specification	R134a
3	Capacity	650 ± 30g

4 **WARNING**

- 5 • If you sleep while the air conditioner or heater is on, with all windows closed, you may suffocate to death.
- 6 • Continued operation in the recirculation mode may cause the interior to become stuffy and windows to fog. Use the recirculation mode for a short period of time.
- 7 • If exhaust gas comes in, there is danger of carbon monoxide poisoning. Use the recirculation mode for a short period of time when driving through an area of smoke or fumes. Be sure to switch back to fresh air mode after passing through an area of smoke or fumes.
- 8 • If you sleep while operating the air conditioner or heater with all the windows closed, you may suffocate to death due to lack of ventilation. When you operate the air conditioner or heater, ventilate frequently.
- 9 • Never leave a child or a handicapped person alone in the vehicle with the air conditioner or heater on in hot or cold weather. The child or handicapped person can be in serious danger by the heat and lack of oxygen.

CAUTION

- If your vehicle has been parked in direct sunlight, open all windows to extract heat before turning on the air conditioning (A/C).
- Operating the air conditioning (A/C) for a long time while the vehicle is parked may cause the engine to overheat.
- When driving up a long hill for an extended period of time, turn on and off the air conditioner every 3 to 5 minutes.
- To prevent battery discharge, do not run the fan for an extended period of time when the engine is not running.
- To maintain the system at its optimum state and to keep the lubrication of the air conditioner compressor and related components, run the air conditioner at low speed once a week.
- Do not stop the engine when the air conditioner is operating. It may produce an unpleasant odor trapped in the duct. Turn the fan off and wait for a few minutes in the fresh air mode before stopping the engine.
- If you start the engine with the air conditioner on, the engine may not start easily and the engine idling can be unstable causing the vehicle to vibrate. Be sure to turn off electrical systems such as the fan.
- When the air conditioner is not used in periods, odors will come out. Run the air conditioner for 20 ~ 30 minutes with the doors opened and you could remove the odors.
- During the winter when the air conditioner is not used regularly, run the air conditioner once or twice every month for 5 ~ 10 minutes.
- If the air conditioner is not used regularly, the lubricant in the A/C compressor will not circulate causing the A/C to malfunction. Be sure to turn the air conditioner at low speed.

SUPPLEMENTARY HEATING DEVICE

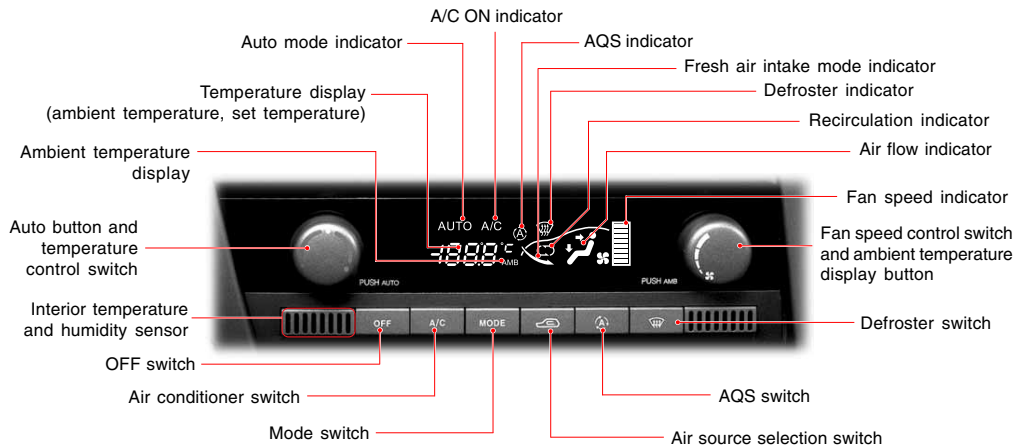
- The vehicle equipped with the DI engine has the supplementary heating devices to increase the heating effect before the engine coolant fully warms up. The supplementary heating devices are as follows:
 - **FFH (If equipped)** (Fuel Fired Heater)
 - **PTC** (Positive Temperature Coefficient)

FFH (If equipped)	PTC
<p>This supplementary heater is a fuel burning type and improves the heating effect by increasing the engine coolant temperature.</p> <p>Compared to PTC, FFH cannot be operated or stopped by the driver. The FFH is automatically operated, depending on conditions of the coolant temperature and the ambient temperature.</p>	<p>This supplementary heater is an electrical air heating type and installed on the heater outlet port. This device improves the heating effect by increasing the temperature of flowing air into the passenger room.</p> <p>This device is operational/non-operational when the engine control unit supplies/cuts off the voltage to the PTC according to the coolant temperature and the ambient temperature.</p>
<p>► FFH Operation</p> <ul style="list-style-type: none"> The FFH system operates up to more than 2 minutes to burn the residual fuel inside the system when stopping the engine during its operation. Therefore, a certain period of FFH operation after stopping the engine is not a malfunction. In initial operating stage, the fuel pump generates the operating sound and the FFH heater produces white smoke. These are normal states to fill the fuel into the FFH fuel line. 	<p>► Operational Condition</p> <p>This device is activated when the blower switch is at any position other than the "OFF" position and the coolant temperature and the ambient temperature is within a specified range.</p> <p>► Non-operational Condition</p> <ul style="list-style-type: none"> The blower switch is at the "OFF" position Defective intake air temperature sensor During engine cranking Battery voltage is too low During pre-glowing process (γ indicator ON)



AUTOMATIC HEATER / AIR CONDITIONER*

0 If the Auto button is pressed, the temperature of the passenger compartment is automatically maintained according to the set temperature. By operating the relevant switch of the automatic air conditioner, you may also manually control the air conditioner operation, air flow direction, fan speed and air source. To turn off the air conditioner and heater, press the "OFF" button. The desired room temperature can be set up by turning the temperature control switch.



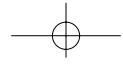
Auto Operation Mode

When you press the Auto button, the "AUTO" indicator is displayed on the VFD and the temperature of the passenger compartment is automatically maintained according to the set temperature.

When you press the Auto button during the manual operation mode, the system is changed to the Auto operation mode.

Manual Operation Mode

When you use the fan speed control switch, air conditioner switch, recirculation switch or mode switch during the auto operation mode, the "AUTO" indicator on the VFD goes out and the air conditioner system can be controlled manually.



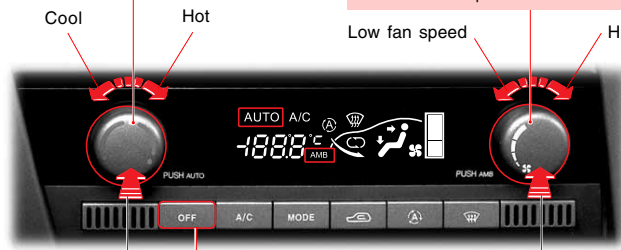
Temperature Control Switch

To adjust the temperature, turn the switch as required.

Fan Speed Control Switch

To control the fan speed, turn this switch. When turning this switch in the Auto mode, the "AUTO" indicator goes out and the system is changed to the manual mode.

CAUTION
If the air conditioner switch is turned off, the air conditioner does not work even when the fan switch is operated. However, the air flows due to fan operation.



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Auto Button

When you press the Auto button, the "AUTO" indicator is displayed on the VFD and the temperature of the passenger compartment is automatically maintained according to the set temperature. When you press the Auto button during manual operation mode, the system is changed to the auto operation mode.

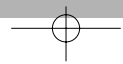
OFF Switch

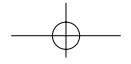
To stop the air conditioner / heater operation, press this switch.

Ambient Temperature Display Button

When you press this button, the "AMB" indicator appears and the ambient temperature is displayed on the VFD for about 5 seconds.

CAUTION
The actual ambient temperature may not be displayed correctly due to engine heat or ground heat.





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Air Conditioner Switch

When you press this switch, the (A/C) indicator comes on and the air conditioner starts to operate, however, the "AUTO" indicator goes out. When you press the switch again, the air conditioner stops operation and the indicator goes out.

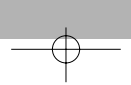
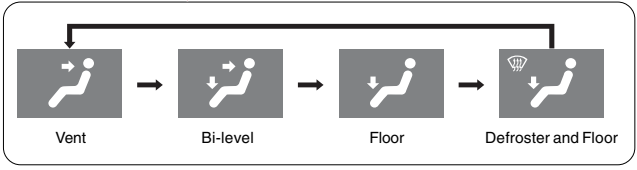
Defroster Switch

Use this switch for quick defrosting. When you press this switch, the airflow direction will be changed to the windshield and door glasses, the air conditioner operates automatically, and outside air comes in. At this moment, the (A/C), (windshield icon), and (door glasses icon) indicators come on. If you press the switch again during its operation, the indicator AUTO goes off. When the defrosting is complete, press the switch to return to normal operations.



Mode Switch

When you press this switch each time, the air flow mode will be changed to another mode and displayed as shown in the figure. When you press this switch in the auto air conditioner operation (the "AUTO" indicator appears), the system is changed to the manual air conditioner mode (the "AUTO" indicator disappears).

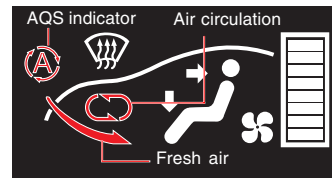


Air Source Selection Switch

By pressing the switch, the fresh air intake mode and recirculation mode change alternatively.

WARNING

- Use of the recirculation mode for a long period of time can cause stuffiness, headache, drowsiness, or fogged window.
- If exhaust gas comes in, there is danger of carbon monoxide poisoning. Set to the fresh air intake mode after passing through a dusty or polluted area.



AQS (Air Quality System) Switch

When you press this button, the AQS indicator comes on and harmful gases will be blocked from creeping into the interior. Once pressed again, the indicator goes off and the system stops. For details, refer to the AQS section.

Automatic Selection of the Fresh or Air Recirculation Mode

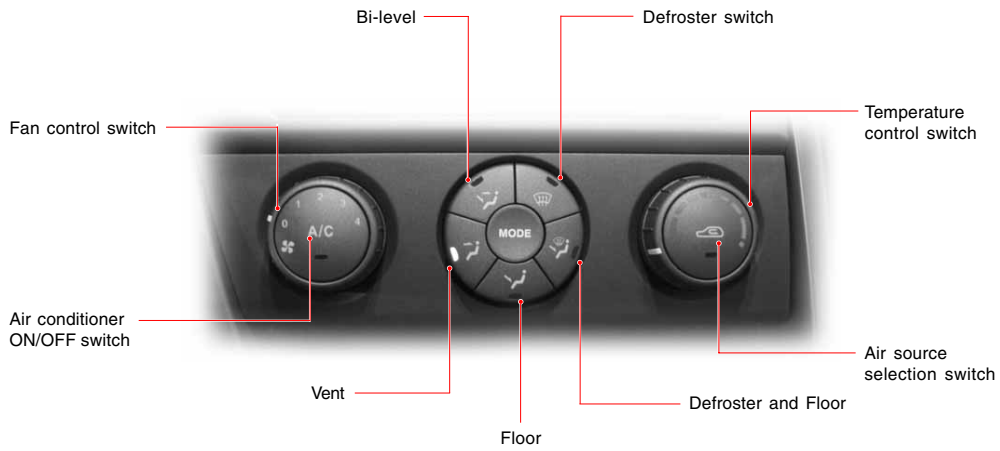
1. AQS automatically adjusts from the fresh air mode to the recirculation mode when polluted air is detected by the AQS sensor.
2. When the defroster switch () is pressed, outside air automatically comes in. When the switch is pressed again, the previous mode will be restored.

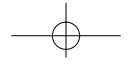
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MANUAL HEATER / AIR CONDITIONER

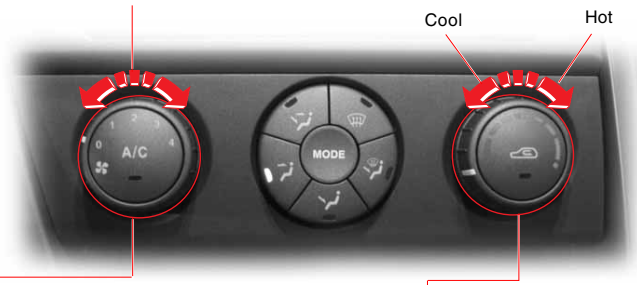
You can have a pleasant interior temperature by manually turning on or off the air conditioning or heating system, controlling the fan speed ranging from 1 to 4 and the temperature of air, and adjusting the direction of air flow.

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The fan speed can be adjusted in 4 different stages.



Cool Hot

Fan Control Switch

Turn the switch clockwise or counterclockwise to increase or decrease the fan speed.

When the switch is turned to "0", the fan stops.

CAUTION

If the air conditioner switch is turned off, the air conditioner does not work even when the fan switch is operated. However, the air flows due to fan operation.

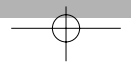
Temperature Control Switch

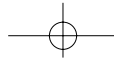
Adjust the temperature of flowing air by turning the dial.

Red direction: Hot

Blue direction: Cool

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Air Conditioner ON/OFF Switch

To turn on the air conditioner, press this switch when the fan speed switch is in any position except "0" position. Then, the indicator in the switch comes on.

To turn off the air conditioner, press the switch again.

Air conditioner ON indicator

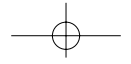
Air circulation indicator

Air Source Selection Switch

By pressing the switch, the fresh air intake mode and recirculation mode change alternatively. When the recirculation mode is selected, the indicator in the switch comes on. When it rains or is humid, turn the air fresh air intake mode and direct the air flow to the windshield to defog.

WARNING

- Use of the recirculation mode for a long period of time can cause stuffiness, headache, drowsiness, or fogged window.
- If exhaust gas comes in, there is danger of carbon monoxide poisoning. Set to the fresh air intake mode after passing through a dusty or polluted area.



Defroster Switch

Use this switch for quick defrosting.

When you press this switch, the airflow direction will be changed to the windshield and door glasses, the air conditioner operates automatically, outside air comes in, and the indicator on the switch comes on. When the switch is pressed again, the previous mode will be restored.

When the defrosting is completed, press the switch to return to normal operations.



Defroster indicator

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Mode Switch

By pressing these switches, the air flow mode changes. When each mode is selected, its indicator will come on.



DEFOGGING AND DEFROSTING

0 Inside of the Windshield

1. Press the defroster switch.
2. Adjust the fan speed with the fan speed control.
3. To quickly remove the fog on the glass, set the fan speed switch at a high speed position.
4. To prevent fog from forming on the glass, setting the air source selection switch to the fresh air intake mode is recommended.

6 Outside of the Windshield

1. Press the defroster switch.
2. Adjust the fan speed with the fan speed control.
3. To quickly remove the fog on the glass, set the switch to a high speed position.
4. Set the temperature control switch to a hot position.

11 **WARNING**

- When it rains and is very humid, you may have fog on the windshield and windows. The fog will block your view through all windows and can create a dangerous situation. To prevent any fog on the glass, setting the air source selection switch to the fresh air intake mode is recommended.

15 **NOTE**

- When you press this defrost switch, the air conditioner turns on automatically and the system selects the fresh air intake mode.

Automatic Air Conditioner



Defroster switch

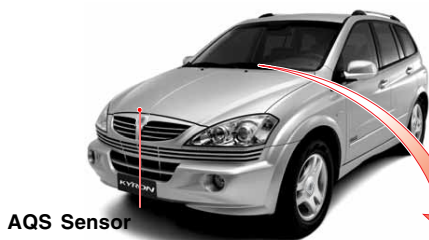
Manual Air Conditioner



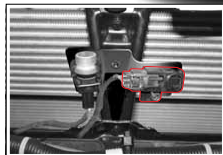
15 **CAUTION**

- An extended air conditioner operation in the bi-level mode or defrost mode may cause the outside glass to fog due to the high temperature difference between the inside and the outside of the vehicle. In this case, change the air flow to the fresh air intake mode and set the fan at a low speed.
- Especially in winter or summer, to avoid glass fogging, remove any obstacles such as snow or leaves on the air inlets.

AQS (AIR QUALITY SYSTEM)



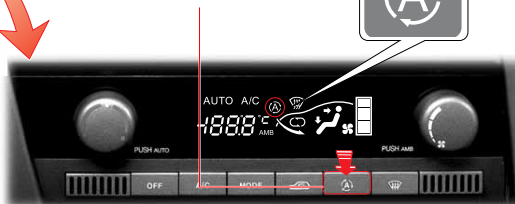
AQS Sensor



AQS SYSTEM?

AQS automatically adjusts from the fresh air intake mode to the recirculation mode when polluted air is detected by the AQS sensor. The air source selection returns back to the fresh air intake mode if a certain time passes or the polluted air has disappeared.

AQS Switch



AQS indicator

CAUTION

- If the outside air contains harmful gases, this system prevents the contaminated air from creeping into the inside. By doing so, the system can form fog on the windshield and other inside windows.
- To defog, refer to the "Defog/Defroster" section.

When the Air Quality System (AQS) switch is pressed, the AQS system is activated and its indicator light comes on. When the switch is pressed again, the light turns off and the AQS system is inactivated. When the AQS is activated and harmful gases are detected by its sensor, the system automatically selects internal air recirculation mode and the recirculation indicator comes on. When the harmful gases disappear, outside air is allowed to come in and the fresh air intake indicator comes on.

NOTE

The AQS system can be adjusted according to the vehicle's driving conditions. Also, after initially operating for 5 seconds, the system checks the outside air quality and chooses either the fresh air intake mode or the recirculation mode.

REPLACING AIR CONDITIONER FILTER

0 Replace the air conditioner filter when

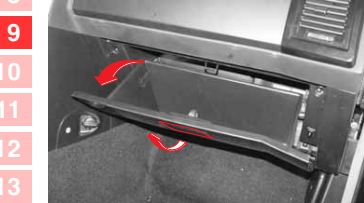
- 1 • Unpleasant odor is generated at the first operation after a long unused period.
- 2 • Cooling and blowing capacity have decreased.

3 **CAUTION**

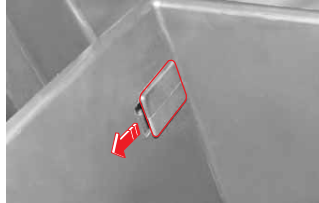
- 4 • Do not apply excessive force to the holders when removing the glove box. It may cause a deformation of holders and results in a loose installation.
- 5 • Replace both air conditioner filters at the same time while paying attention to the installing direction.

6 **CAUTION**

- 7 • Replace the air conditioner filter at every 10,000 km of driving. However, if the vehicle is operated under severe conditions, such as on dusty or unpaved roads, and excessive air conditioner or heater use, the replacement interval can be shortened.
- 8 • When the filter is contaminated, it will decrease the cooling or heating capacity of the system and creates unpleasant odors.



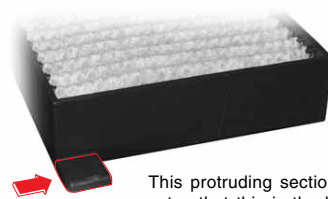
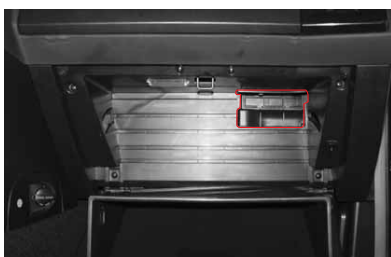
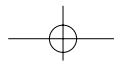
9 1. Open the glove box.



10 2. Remove the glove box from the dash panel by moving the left side of the holder in the direction of the arrow.

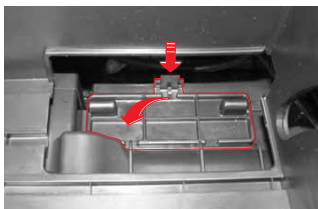
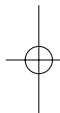


11 3. Push down the right side of the glove box in the direction of the arrow.



This protruding section indicates that this is the bottom of the filter.

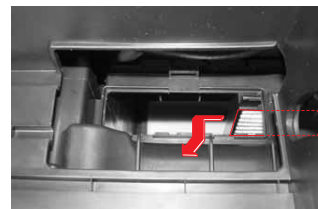
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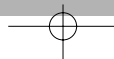
4. Remove the filter cover.

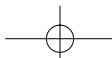


5. Pull out the first filter.



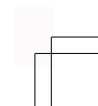
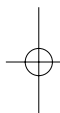
6. Slightly move the second filter to the left side and pull it out.
7. Install in the reverse order of removal.

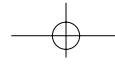




MEMO

Lined area for notes, consisting of 18 horizontal lines.





Turbocharger System

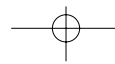
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- Preventive Maintenance 10-3
- Turbocharger Inspection 10-4

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CAUTIONS IN USING THE TURBOCHARGER

0 WHAT IS THE TURBOCHARGER?

1 Turbochargers are based on the gas turbine engine technology, but operate under considerably greater pressure. The turbocharger consists of two turbo elements, a turbine and a compressor, both of which are driven from the main center shaft. The turbine rotates between 50,000 ~ 160,000 spins per minute and uses the energy of the exhaust gas to drive the compressor. The compressor, in turn, draws in fresh air which it supplies to the cylinders in the form of compressed air. As more fuel is drawn into the engine, output performance is boosted between 15 ~ 30% in comparison to a non-turbocharged engine.

9 Advantages of a turbocharger

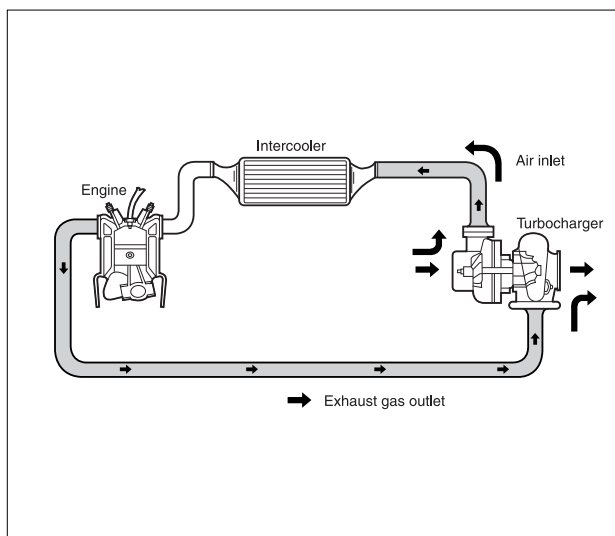
10 Turbocharger helps the engine operate more smoothly and with greater efficiency.

- 11 • Increase specific power
- 12 • Compensate for power loss at high altitude
- 13 • Reduce emissions

14 What is the intercooler?

15 The intercooler cools down the compressed air temperature to increase the engine power by increasing the air density.

16



PREVENTIVE MAINTENANCE

The vehicle owner should be encouraged to observe the following precautions to ensure maximum turbocharger service life.

CAUTION

- Operate the engine over the idling speed only after normal engine oil pressure has been established. Forcing the turbocharger to operate before the bearings are adequately lubricated creates unnecessary friction.
- Take steps to reduce temperature and speeds from their maximum before shutting down the engine.

The engine equipped with turbocharger develops much more heats than a normal engine, so when the engine is stopped abruptly, the oil in the bearings may evaporate due to heats and can be stuck.

- Use only the specified engine oil and observe inspection and replacement intervals.

CAUTION

- At low ambient temperature, or when ever the vehicle has not been used for a long period, normal engine oil pressure and flow is affected. Under these conditions the engine should be started and allowed to idle for a few minutes before operating at higher rpm.
- Avoid long periods of engine idling. The combination of low-pressures in the turbine and compressor may allow oil to seep past the seal into the turbine or the compressor.
- The turbocharger may need to be pre-oiled after oil change or any service that involves oil draining. Crank the engine a few times before allowing start, then start the engine and allow it to idle for a period to establish full oil circulation and pressure before operating at higher rpm.

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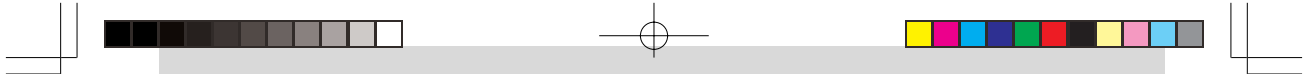
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TURBOCHARGER INSPECTION

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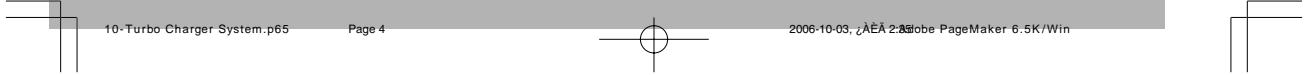
Good maintenance practices should be observed, particularly regarding air filtration, oil quality and filtration. These areas are important because of a turbocharger's operating speed. Proper operating procedures and preventive maintenance practices enhance good turbocharger's service life and performance. The contaminated air cleaner can damage the turbo-charger seriously, so frequently check the air cleaner and observe the replacement intervals.

WARNING

Operating the turbocharger system without the intake and exhaust manifold mounting can result in severe engine damage. The turbocharger should be operated when every device is normally installed.

NOTE

The most defectives in turbocharger are turbine blade damages or compressor bearing sticks due to lack of oil supply, contaminated engine oil or external materials.





Convenience Devices

11

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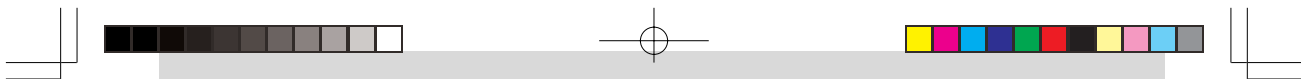
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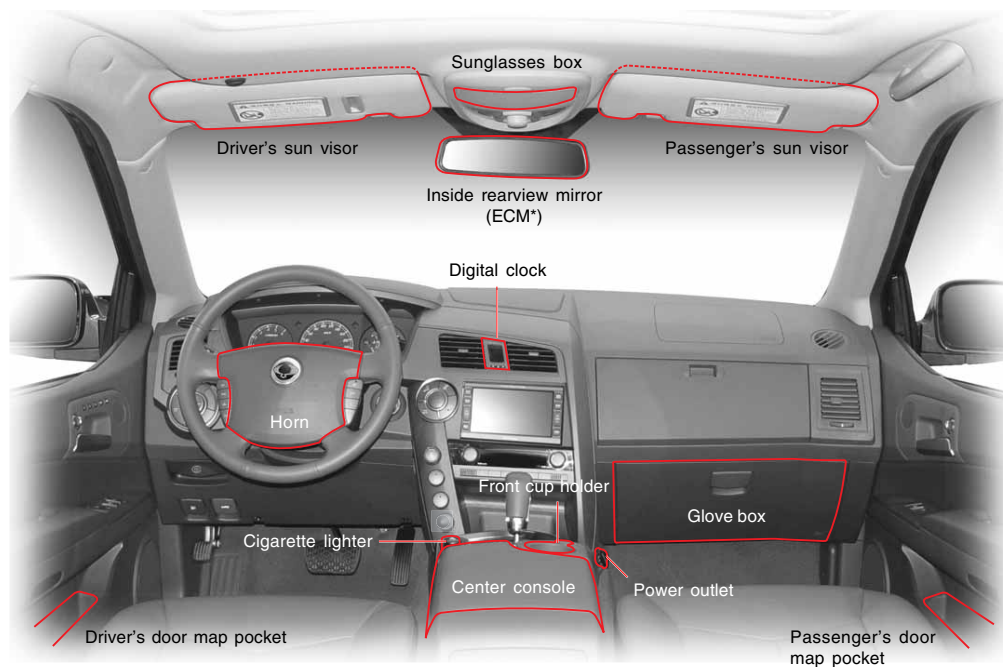
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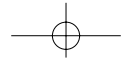
STORAGE BOXES AND CONVENIENCE DEVICE

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11-2 CONVENIENCE DEVICES

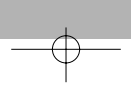
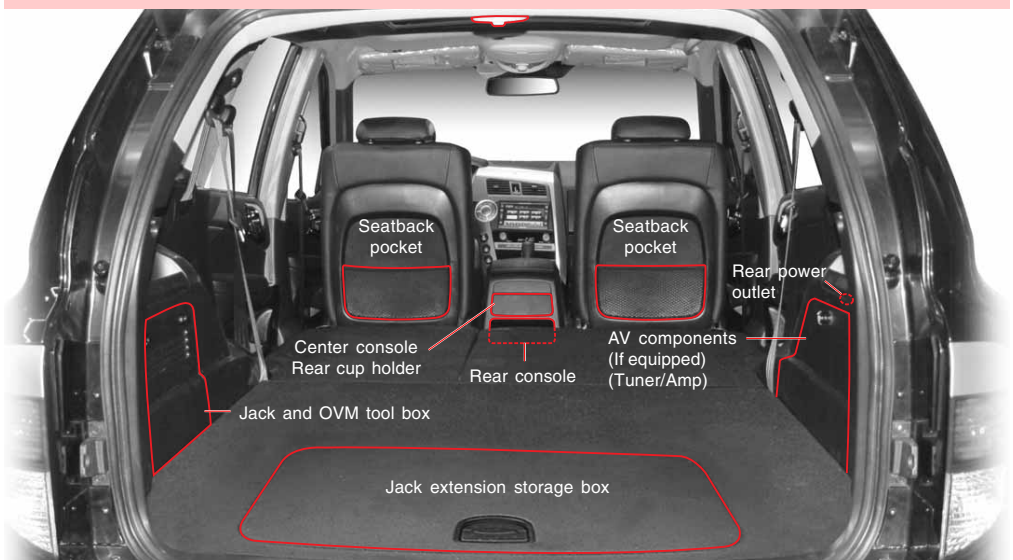
KYRON



⚠ WARNING

- Driving with any storage box open can cause injury in case of an accident or a sudden stop. Keep all the storage boxes closed while driving.
- Do not store any flammable items or disposable lighters in the console box or other space. In hot weather, they can explode and cause a fire.
- When vehicle is in motion, liquid may spill out. Spilled liquid can damage the vehicle and cause burns if it is hot. Do not use the cup holder while vehicle is in motion. Therefore, do not put any cup with hot liquid into the cup holder.

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TILTABLE STEERING WHEEL AND HORN

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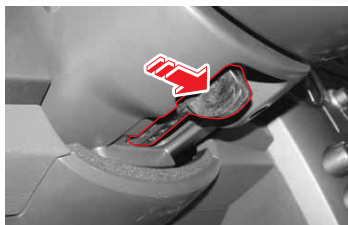
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Tiltable Steering Wheel



To adjust the steering wheel, push the control lever to right, adjust the wheel up or down to the proper position, release the control lever to lock the wheel in place.

Horn

Press the horn pad on the steering wheel to sound the horn.

CAUTION

The sound of the horn can startle pedestrians. Use only when needed.

WARNING

- Do not adjust the steering wheel while your vehicle is moving. Otherwise, control of your vehicle can be lost.
- Before driving, make sure that the steering wheel is locked.

11-4

CONVENIENCE DEVICES

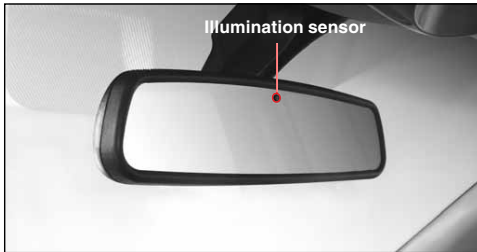
KYRON



INSIDE REARVIEW MIRROR

The inside rearview mirror can be adjusted up, down or side ways to obtain the best rear view.

ECM* (ANTI-GLARE AUTO ADJUSTMENT FUNCTION)



The reflection rate of the inside rearview mirror can be automatically adjusted by the light intensity from a vehicle behind you.

⚠ CAUTION

Under the following conditions, automatic anti-glare function may not operate properly.

- When the rear vehicle's headlamp is not beamed directly to the inside rearview mirror's sensor.
- When the rear window has a dark tinted glass.
- When the gear selector lever is in the R position, automatic anti-glare function will be cancelled to obtain the best rearview.

⚠ WARNING

- The electrolyte may come out when the mirror is broken. Do not allow it to contact your skin or eyes. If you accidentally get it in your eyes, flush with water and see your doctor.
- For your safety, never adjust the mirror while the vehicle is in motion.

MANUAL TYPE INSIDE REARVIEW MIRROR



Manual Day/Night Adjustment

You can manually adjust the rearview mirror by pushing or pulling its adjusting lever to avoid blindness at night due to other vehicles behind you.

⚠ CAUTION

When you are not able to see the back of your vehicle at night, adjust the rearview mirror by holding the mirror body and pushing or pulling it to a desired angle so that you can secure a clear rear view.

⚠ WARNING

For your safety, never adjust the inside rearview mirror while the vehicle is in motion.

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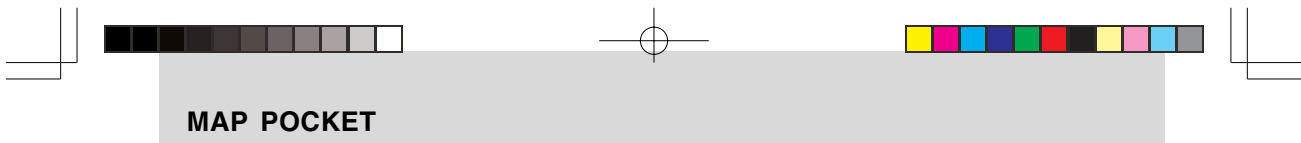
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KYRON

CONVENIENCE DEVICES

11-5



MAP POCKET

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FRONT DOOR



REAR DOOR

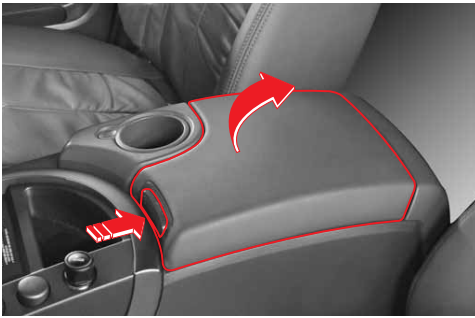


The map pocket is located on each front door. Maps, magazines, newspapers, and other items can be stored.

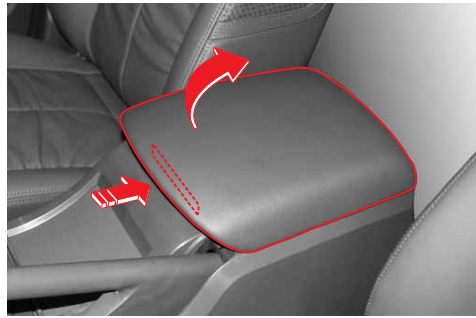


CENTER CONSOLE

WITH A/T MODEL



WITH M/T MODEL



Push the button and lift the cover lid to open in order to store small items. It can be used as an armrest for both the driver and passenger.

⚠ CAUTION

Do not store any flammables including disposable lighters in the console box or other space. In hot weather, they may explode and cause a fire.

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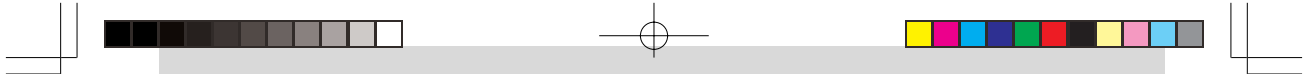
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KYRON

CONVENIENCE DEVICES

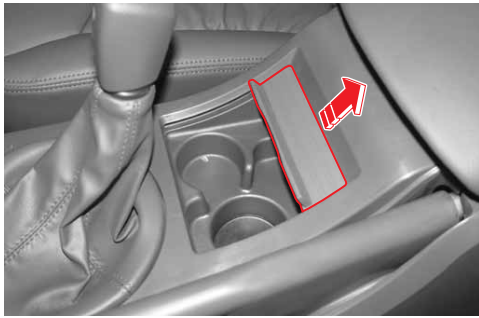
11-7



FRONT CUP HOLDER AND ASHTRAY HOLDER

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WITH M/T MODEL



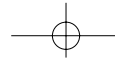
STANDARD - WITH A/T MODEL



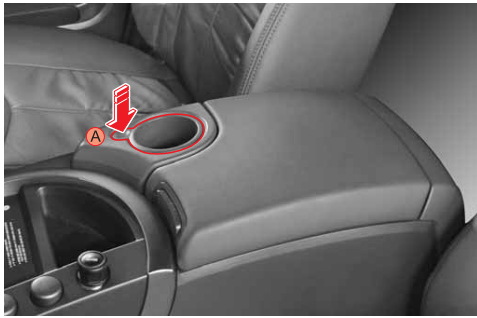
The holder is located in order to put the cup or ashtray into it. Slide the cover up.

CAUTION

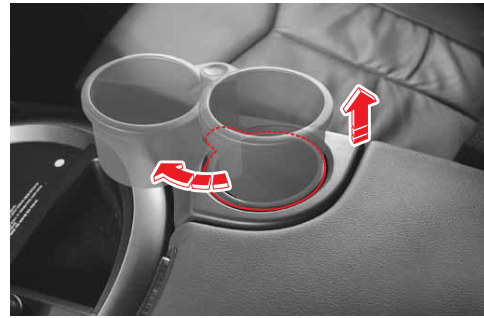
- When the vehicle suddenly brakes or starts, liquid may spill.
- Danger of burning! Do not store a hot beverage in the cup holder.



DELUXE - WITH A/T MODEL



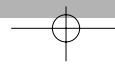
The holder lifts up when (A) is pressed.
This holder rotates for use of passenger.



CAUTION

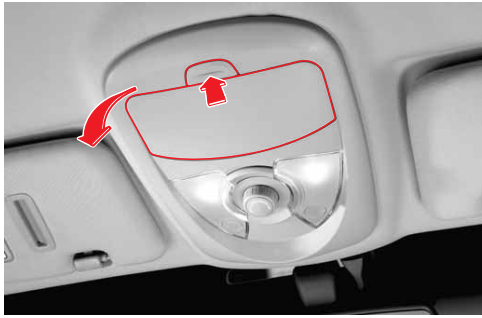
- When the vehicle suddenly brakes or starts, the liquid may spill.
- Danger of burning! Do not store a hot beverage in the cup holder.

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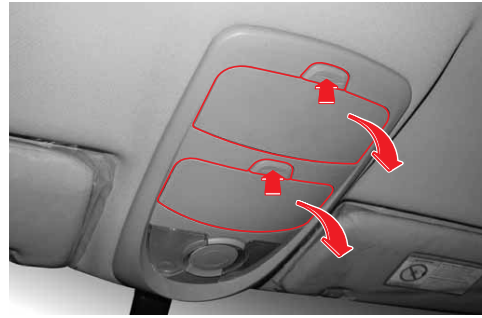


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WITH SUNROOF



WITHOUT SUNROOF



Press the button to open the console and place the sunglasses onto the hook.

- CAUTION**
- If glasses falls down, it may be damaged. Fix it firmly.
 - The unclosed console can block your rearview. Also, the console can injure you in an accident or a sudden stop. Therefore, close the console before driving off your vehicle.
 - Do not store any item that can be deformed in a hot temperature.
 - Do not store any heavy items inside the console. When it falls out of the console, occupants may get injuries.

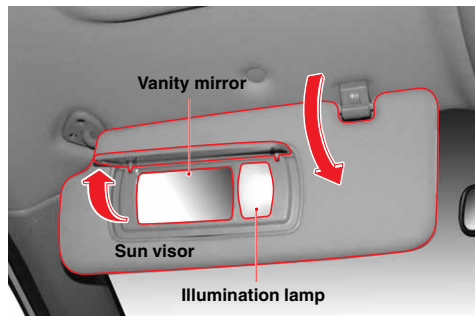
CARD HOLDER / SUN VISORS AND VANITY MIRROR LAMP

CARD HOLDER



Tickets and cards can be stored.

SUN VISORS AND VANITY MIRROR LAMP*



Sun Visors

Pull the sun visor down or to the left (right), if necessary.

Vanity Mirror

Swing the sun visor down and open the cover to reveal the mirror.

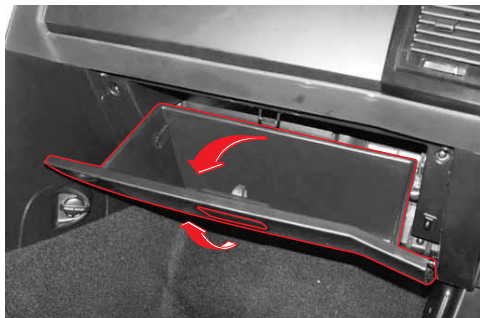
Vanity Mirror Lamp (If equipped)

Swing the sun visor down and open the cover to reveal the mirror, then the lamp will come on.

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GLOVE BOX / DIGITAL CLOCK

0 GLOVE BOX



Pull up on the lever to open the glove box. Items can be stored.

11 When the tail lights are on and the glove box is open, the glove box inner lamp comes on.

12 **CAUTION**

- Driving with the glove box lid open can cause injury in case of an accident or a sudden stop. Keep glove box lid closed when driving.
- Do not store any flammables including a disposable lighter in the console box or glove box. In hot weather, it may explode and cause a fire.

DIGITAL CLOCK



H (HOUR) : Hour Adjusting Button

M (MINUTE) : Minute Adjusting Button

S (SET) : Setting Button

Press the "S" button to adjust the time to the nearest hour.

- When the time is between 00 and 29 minutes of a certain hour, the minute indicator will show "00" if this button is pressed.
- When the time is between 30 and 59 minutes of a certain hour, the minute indicator will show "00" and one hour will be added to the hour indicator if this button is pressed.

NOTE

When disconnecting the battery or replacing the fuse, the clock should be adjusted again.



REMOVABLE ASHTRAY / STORAGE BOX (FRONT)

REMOVABLE ASHTRAY



Standard

Deluxe

If you open the lid at night or in a dark area, the ashtray light will light up inside the ashtray.

Battery type: CR2032

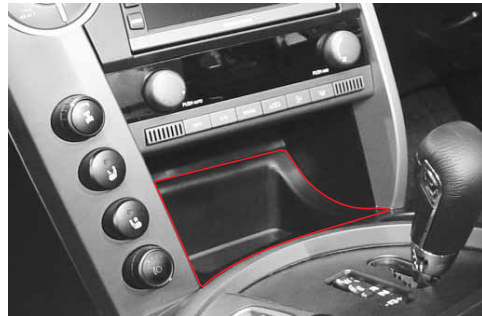
⚠ WARNING

To avoid danger of fire, do not accumulate inflammable materials, such as garbage or cigarette butts, in your ashtray and make sure the cigarettes are full extinguished.

⚠ CAUTION

The LED illuminator inside of the ashtray has an electronic circuit and is not water-proof. Any impact on it or water will damage the unit.

STORAGE BOX (FRONT)



There is another front storage box at the bottom of the center panel.

NOTE

The picture shown above is standard for vehicles equipped with the automatic transmission. But vehicles equipped with the manual transmission has its front storage like this.

⚠ CAUTION

Do not place any item that might block the automatic gear selector lever or the manual gear shift lever from moving freely.

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KYRON

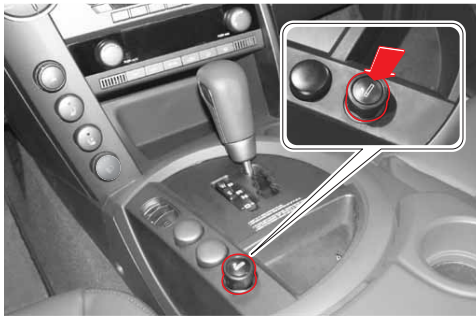
CONVENIENCE DEVICES

11-13

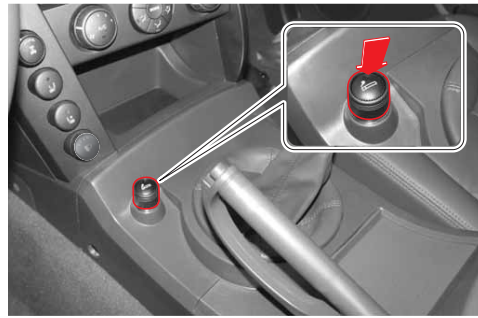


CIGARETTE LIGHTER

0 WITH A/T (Automatic Transmission) MODEL



WITH M/T (Manual Transmission) MODEL



To operate the cigarette lighter, press it in all the way down. When it becomes heated, it automatically pops out and is ready for use.

11 **⚠ WARNING**

- When the cigarette lighter does not automatically pop up after 30 seconds, there is a danger of overheating. If this happens, pull it out and have the problem corrected by Ssangyong Dealer or Ssangyong Authorized Service Center.
- Inserting your finger into the cigarette lighter outlet can cause burns or electric shock.
- The barrel of the cigarette lighter becomes very hot when it is fully charged. When touched by or dropped on bare skin, this may cause burns. Dropping the hot lighter can cause damage to a car seat or even start a fire.

⚠ CAUTION

Do not tap the cigarette lighter strongly to clean up. That may damage the coil.

POWER OUTLET

FRONT POWER OUTLET

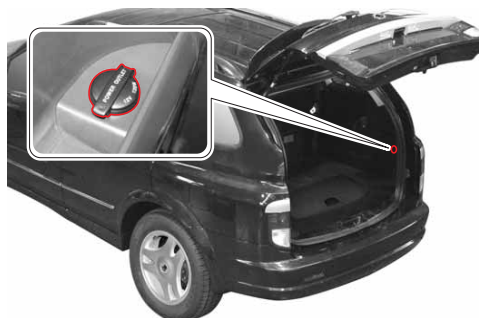


An auxiliary power outlet for extra electrical devices is installed. This power outlet supplies power when the ignition key is in the "ACC" or "ON" position.

CAUTION

Keep the power outlet cover closed if not in use. Electrical defects can occur if objects other than power outlet plugs or water gets in. This will prevent the socket from becoming clogged or short circuiting.

REAR POWER OUTLET



WARNING

- For the extra electrical devices, you must use this power outlet. If you alter the vehicle's wire lines and leave the wires to hang freely, it could cause an accident like a fire.
- Abide by the nominal capacity of 120W.
- Do not put a finger into the outlet. It may cause an electric shock.
- The battery can be discharged if the power outlet is used excessively when the engine is not running.

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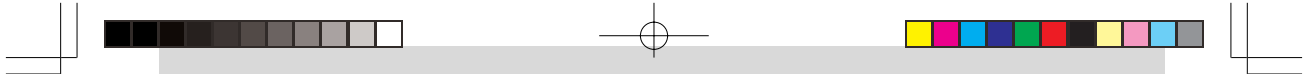
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REAR ARMREST / ASSIST GRIP AND COAT HOOK

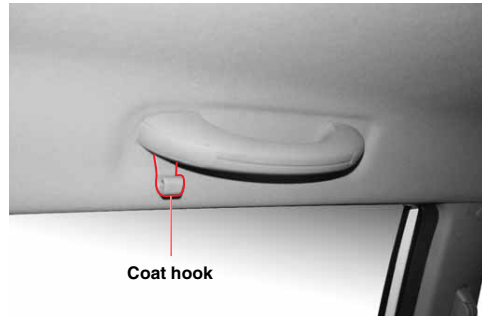
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REAR ARMREST (CENTER)



The rear armrest is located in the center of the rear seat. Pull down the armrest to use. Stow it when not in use.

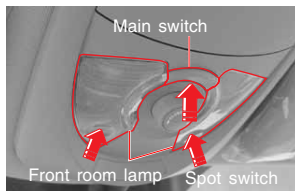
ASSIST GRIP AND COAT HOOK



Assist grip is not installed on the driver side. A coat hook is installed on the grips above the rear door at driver side.

ROOM LAMPS

FRONT ROOM LAMP

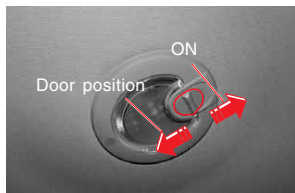


When this switch is pressed, the front and center room lamps are coupled with doors. (The center room lamp is coupled only if the center room lamp switch is in the door coupled operation.) When pressed again, the lamps go out.

* When a door is opened, the front and center room lamps are turned on. In this case, you cannot turn off the lamps with the main room lamp switch. When the door is closed, the lamp will go off.

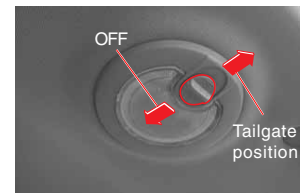


CENTER ROOM LAMP



When this switch is pushed towards the rear of the vehicle, the lamp comes on. If the switch is pushed to the opposite direction, the lamp will go off. But, when any door is open, the lamp comes on. (However, the lamp is coupled with the doors only when the main switch of the front room lamp is pressed) When the door is closed, the lamp will go off.

LUGGAGE ROOM LAMP



When this switch is pushed towards the tailgate, the lamp comes on when the tailgate is open. If the switch is pushed to the opposite direction, the lamp will go off and will not come on even if the tailgate is open.

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KYRON

CONVENIENCE DEVICES

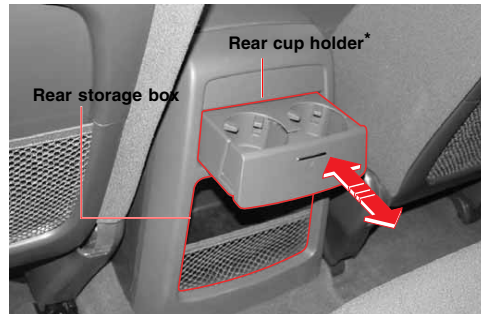
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REAR CUP HOLDER* AND REAR STORAGE BOX, REAR DEFOGGER AND ANTENNA

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REAR CUP HOLDER* AND REAR STORAGE BOX



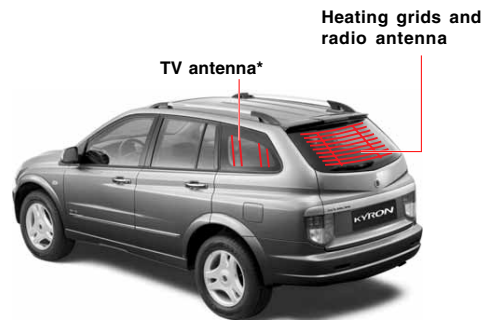
If you push the cup holder section, the cup holder pops out. Pull it out completely.

There is another storage box under the cup holder.

CAUTION

- When the vehicle is in motion, the liquid may spill out.
- Spilled liquid can damage the vehicle and cause burns if it is hot.

REAR DEFOGGER AND ANTENNA*



The glass antenna (for FM and AM) is on the upper and lower section of the tailgate window and the heating grids are on the center section of the tailgate window. TV antennas (If equipped) are installed on both sides of the glass of the tailgate.

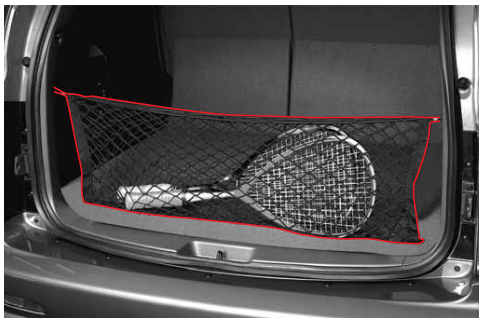
Be careful not to damage the heating grids and antenna while cleaning the inside of the window.

CAUTION

Do not coat the tailgate window and side windows with any after-market products, especially a metal anti-glare film or a two-tone film. When it is used on the windows, the sensitivity of the heating grids and antenna can be deteriorated.

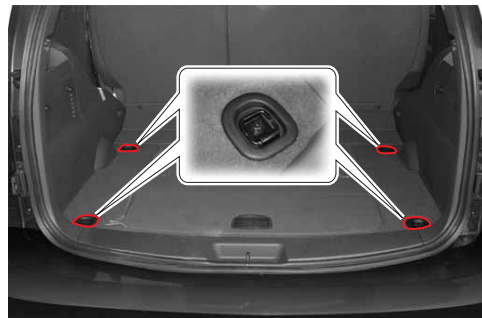
LUGGAGE NET AND LUGGAGE HOOKS

LUGGAGE NET



Any possibly moving objects during driving can be stored securely in the luggage net.
Hook the net up to the luggage compartment.

LUGGAGE HOOKS*



Your vehicle has luggage hooks on the luggage room floor.

⚠ WARNING

The luggage hooks should be used to secure all loads in the luggage room by using the proper straps.

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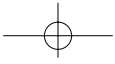
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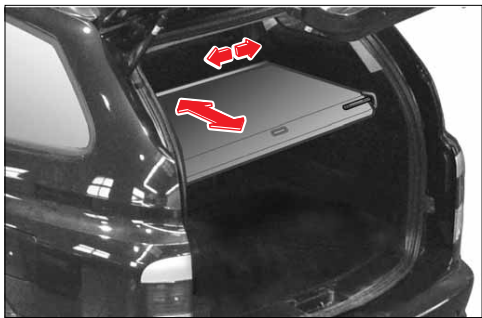
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LUGGAGE COVER* (EXCEPT FOR 7-SEATER)



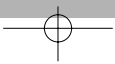
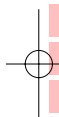
When Unrolling the Luggage Cover
 Pull the handle of the luggage cover at the center, and fix it into the grooves at left and right sides of quarter trim inner panels.

When Rolling the Luggage Cover
 Take the luggage cover out of the grooves by pulling the handle and let go the grasp slightly to roll the luggage cover.

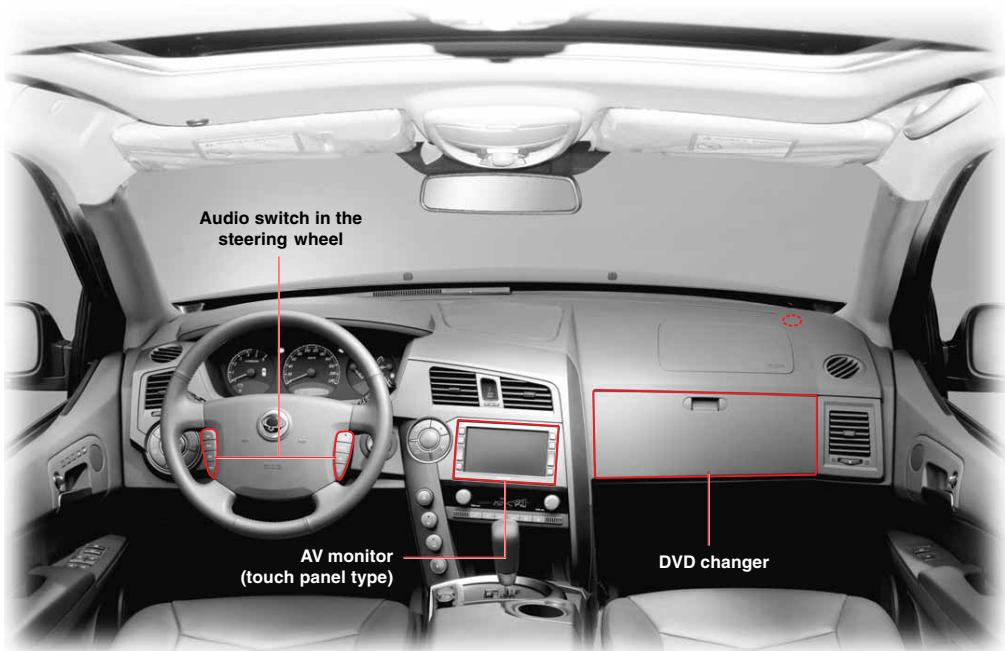
When Removing the Luggage Cover
 After tearing off the edge of luggage cover at the back of rear seat, remove the luggage cover assembly by raising up it from the fixing holder's grooves.

NOTE
 Store the luggage cover separately to use the luggage room of the vehicle wide.

CAUTION
 Don't put anything on the luggage cover.



AUDIO / VIDEO SYSTEM

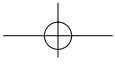


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KYRON

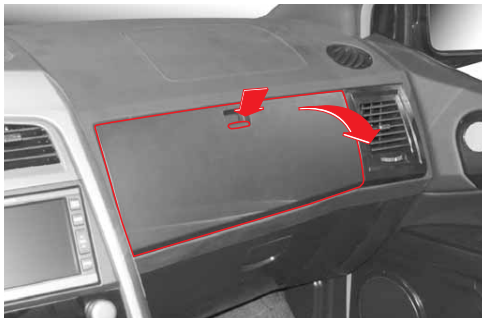
CONVENIENCE DEVICES

11-21



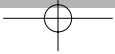
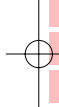
0 DVD CHANGER*

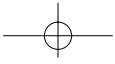
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A 6- or 8-DVD changer is installed above the glove box and in front of the front passenger's seat. (Optional)

A separate manual is provided for the DVD changer.





⚠ CAUTIONS WHEN USING AUDIO/VIDEO SYSTEM

- An illegal copy of a CD/DVD may cause a malfunction in the audio/video head unit and abnormal replay. Use only original CD/DVDs.
- Incompatible discs may cause a malfunction in the system. Use only compatible discs.
- The back of the front monitor is very hot. Do not touch the back when removing the monitor.
- Do not use the audio/video/navigation system for a long time when the engine is not running. The battery could discharge.
- Be careful not to spill water on the unit or to let any foreign objects into the system through the opened monitor.
- Do not apply excessive force to adjust, open, and close the monitor. Do not impede the automatic movement of the unit. It may cause a malfunction.
- Do not apply any impacts and pressure to the monitor screen. The LCD panel or touch screen panel can be damaged.
- When cleaning the touch screen, turn off the system and clean the surface with a dry and soft cloth. Never use a coarse cloth, hard cloth, chemical agent, or volatile cleaning solvent (alcohol, benzene, thinner) for cleaning the touch screen. The screen surface can be damaged and discolored.

Usable Discs

Head Unit

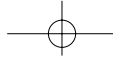
- DVD player: DVD/VCD/Audio CD/MP3 CD
- CD + MP3 player: Audio CD/MP3 CD
- CD player: Audio CD

Changer

- DVD changer: DVD/VCD/Audio CD/ MP3 CD

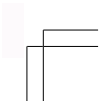
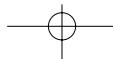
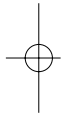
Please refer to a separate DVD manual to check disk compatibility.

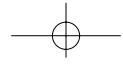
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MEMO

Lined area for writing a memo.





In Case of Emergency

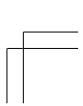
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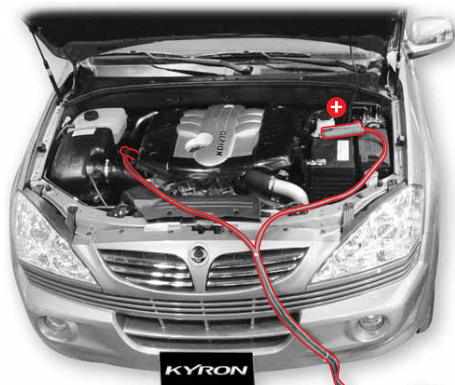
- Starting the Engine with Jumper Cables. 12-2
- Cautions when a Tire is Flat 12-4
- OVM Tools 12-5
- Changing a Flat Tire 12-6
- Removing the Spare Tire 12-7
- Changing a Spare Tire..... 12-8
- Cautions when Changing the Tire 12-13
- When the Engine is Overheating 12-14
- Water Separator Warning Light and Engine Check Warning Light 12-16

- Shift Lever Lock Release and Safety Mode Reset 12-17
- Towing a Disabled Vehicle 12-18
- Emergency Towing 12-19
- Trailer Towing 12-20
- Accident or Fire 12-25
- Warning Triangle* 12-26



STARTING THE ENGINE WITH JUMPER CABLES

If the battery is weak or dead, the battery from another vehicle can be used with jumper cables to start the engine.



Discharged battery

Booster battery

The positive (+) cable to the positive (+) terminal.
The minus (-) cable to the minus (-) terminal.
Be sure to observe the connecting sequence specified below.

Connecting order:

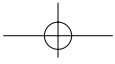
- (1) The + terminal of the discharged battery
- (2) The + terminal of the booster battery
- (3) The - terminal of the booster battery
- (4) Connect one end of the other jumper cable to the body of the discharged vehicle, such as the engine block or a front towing hook.

1. Prepare a set of jumper cables.
2. Place another vehicle that has the same 12 V of power near to the discharged vehicle.
3. Switch off all electrical accessories for the discharged vehicle.
4. Apply the parking brake and shift the transmission to the P position (automatic transmission) or neutral (N) position (manual transmission).
5. Connect the jumper cables.

12-2

IN CASE OF EMERGENCY

KYRON



⚠ WARNING

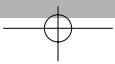
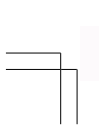
- Connecting the jumper cable to the negative terminal of the discharged battery could result in arcing and possibly a battery explosion. Serious personal injury or vehicle damage can result.
- Make sure that the jumper leads are securely connected. Otherwise, an abrupt disconnection due to vibration during engine starting may cause an electrical short resulting in severe damage to electric components.
- Make sure that the booster battery has the same voltage rate with the discharged battery.
- While connecting the jumper cables, make sure that the negative (-) and positive (+) cables never touch each other. Otherwise sparks might cause an explosion of the battery.
- Battery fluid contains acid that can burn you. Do not allow battery fluid to contact eyes, skin, or painted surfaces. If you accidentally get it in your eyes or on your skin, flush the place with water and contact your doctor. If you swallow battery fluid, drink a large quantity of water or milk and see your doctor as soon as possible.
- While being transported in an ambulance, gently wipe out the contacted area with a water-wet cloth or sponge.

⚠ CAUTION

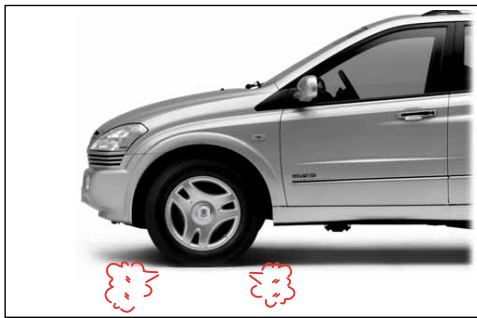
- When starting your vehicle with jumper cable, turn off the engine of the boost vehicle and connect the jumper cables.
- Ensure that the jumper cables are clear of fan blades before starting the engine.

6. Try to start the discharged vehicle while accelerating the engine rpm in the booster vehicle.
7. Attempt to start the engine with the discharged battery.
8. After starting the engine, carefully disconnect the jumper cables in the reverse sequence of connection.

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CAUTIONS WHEN A TIRE IS FLAT



If one of the tires becomes flat while driving, grab the steering wheel firmly and remove your foot from the accelerator pedal. Gradually slow down and park your vehicle in a safe place. Replace the flat tire with a spare tire. For the process, refer to sections about the spare tire.

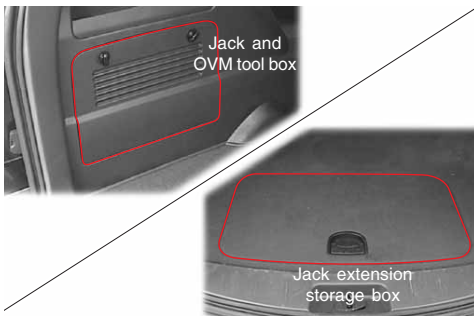
WARNING

- Don't panic! Improper operation of the steering wheel or abrupt braking may cause a consequential accident on the road. Stop your vehicle in a safe place and turn on the hazard flasher and then apply the parking brake.
- Do not drive with a flat tire for even a very short distance. In addition to damages to the rim of the tire, abnormal driving conditions can cause a very danger situation.

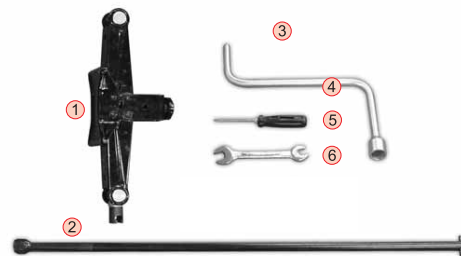
WARNING

- Stop the engine and set up the warning triangle behind your vehicle (daytime: 100 m, night time: 200 m - on express way).
- Check the front and rear of the wheel diagonally opposite to the wheel being changed.
- Have all passengers get out of vehicle and stand in a safe place.

OVM TOOLS



Emergency tools such as the jack, the jack connection, and others are stored inside of the 3rd row side jack box and the floor jack extension storage.



1. Jack
2. Jack connection
3. Wheel nut wrench
4. Screwdriver (+ and -)
5. Spanner (Big)
6. Spanner (Small)

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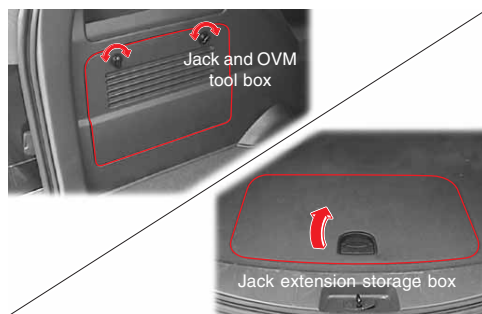
KYRON

IN CASE OF EMERGENCY

12-5

CHANGING A FLAT TIRE

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1. Stop your vehicle in a safe place and turn on the hazard flasher and then apply the parking brake.
2. Chock the front and rear of the wheel diagonally opposite to the wheel being changed.
3. Turn fastening knobs and open the jack box cover. Also, open the jack extension storage box.

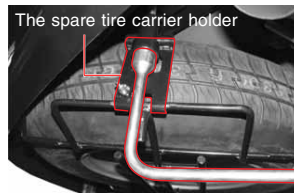
CAUTION

- Put the tools into their own locations.
- Stop the engine and set up the warning triangle behind your vehicle (daytime: 100 m, night time: 200 m - on express way).

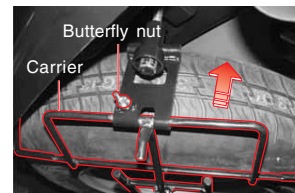


4. Pull out the jack, the wheel nut wrench, OVM tool and the jack connection.

REMOVING THE SPARE TIRE



1. Loosen the fastening bolt of the spare tire carrier holder with the wheel wrench.



2. Loosen the spare tire carrier holder by turning the butterfly nut on the holder to release the carrier.

3. While raising up the carrier, pull the carrier hold up. This will release the carrier from the holder. Be sure to keep any of your body parts away from underneath the carrier.



4. Take out the spare tire.

5. If you have raised up your vehicle with the jack for easy removal of the spare tire, lower the jack completely and remove the jack from your vehicle.

⚠ WARNING

The emergency spare tire is only for emergency situations. Never use it for normal driving. After installing the spare tire on a wheel, take your vehicle to a Ssangyong authorized service center or a tire-specialized shop to replace it with a new regular tire.

⚠ CAUTION

- When reinstalling the spare tire to the carrier, be sure to securely lock it to the carrier holder.
- When one of the rear tires is flat, you may not have a enough space to release the spare tire from the its carrier. Then, raise your vehicle with the jack.
- While your vehicle is being raised up with the jack, avoid any impact on your vehicle. Otherwise, you may get injured.

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KYRON

IN CASE OF EMERGENCY

12-7

CHANGING A SPARE TIRE

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1. Pry off the wheel cap with a flat blade screwdriver.

⚠ WARNING

- The parking brake should always be applied when replacing the flat tire.
- Check the front and rear of the wheel diagonally opposite to the wheel being changed.

⚠ CAUTION

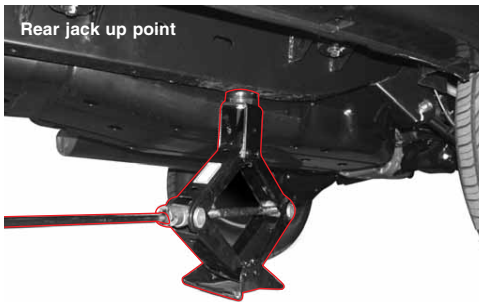
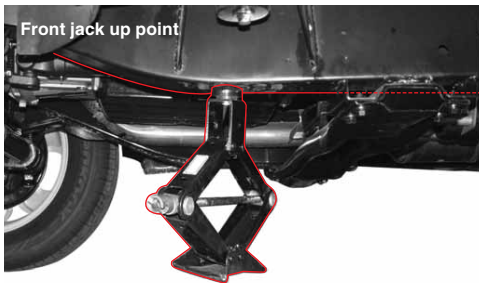
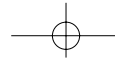
When reinstalling the wheel cap, be sure to completely fit it into its location.



2. Loosen the wheel nuts one or two turns by turning them counterclockwise with the wheel nut wrench.

⚠ WARNING

- Do not remove the nuts yet from the wheel. If they are removed, the wheel could slip off from the vehicle. Then, the body of the vehicle will fall down on you and you may get seriously injured.
- Loosen the wheel nuts one or two turns.



3. Place the jack directly under the jack-up points so that the top of the jack contacts the vehicle at the jack-up point.

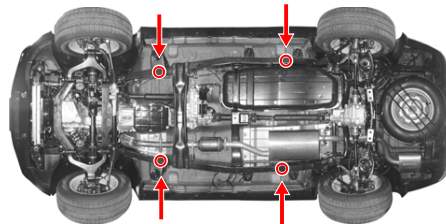
WARNING

Do not attempt to raise the vehicle until the jack is set up at the jack up point. Do not use the jack on a tilted or soft surface. Make sure that the jack securely contacts the jacking point of the vehicle and the ground. Otherwise, there could be a personal injury or damage to your vehicle.

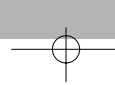
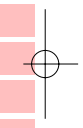
CAUTION

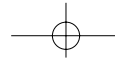
Do not set the jack at any other position on the vehicle other than those specified. If the jack is set at the wrong position, the body of the vehicle could be dented or damaged. The top of the jack should contact the jacking point.

<Jack up points>

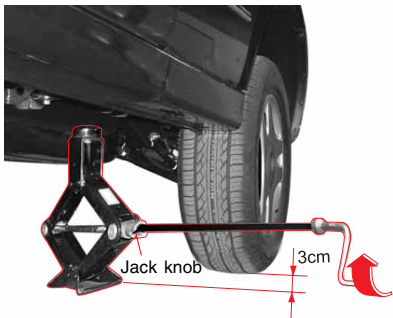


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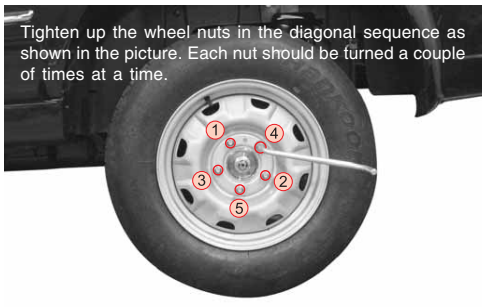
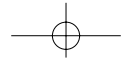
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- 4. Combine the jack, the wheel nut wrench and the jack connection as shown in the figure. Jack up the vehicle by rotating the combined wrench clockwise until the tire is off the ground about 3 cm.
- 5. Remove the a wheel nuts by hands while the vehicle is stationary. Remove all of the wheel nuts.

⚠ WARNING
Do not attempt to raise the vehicle until the jack is in the proper position, and secure both to the vehicle and the ground. It may cause a personal injury or vehicle damage.

- 6. Take the wheel off and place the wheel under the vehicle body. This helps to minimize any danger if the jack slip off position.



Tighten up the wheel nuts in the diagonal sequence as shown in the picture. Each nut should be turned a couple of times at a time.



7. Then mount the spare tire and temporarily tighten the wheel nuts until the spare tire wheel is no longer loose.

WARNING
By tightening up the spare tire until it is not loose any more, you can avoid any tilting of the tire on the wheel hub when the tire touches the ground.

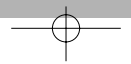
8. Lower the vehicle by rotating the combined wrench counter-clockwise until the tire touches the ground. Remove the jack.

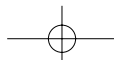
WARNING
While the jack is supporting your vehicle, do not use too much force to tighten the nuts. Otherwise, the vehicle may slip off and you may get injured.

9. Tighten up the wheel nuts in the diagonal sequence as shown in the picture. Each nut should be turned a couple of times at a time.

10. When done with mounting the spare tire, place the flat tire in the luggage room. Store the jack and other emergency tools in their storages.

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If over tightened, the wheel nuts could be damaged. Do not overtighten the wheel nuts by pressing the wheel nut wrench by foot or using an assist pipe.

⚠ WARNING

- With the emergency spare tire, do not drive any faster than 60 km/h.
- The temporary spare tire is only for emergency situations. Never use it for normal driving. After installing the spare tire on a wheel, take your vehicle to a Ssangyong authorized service center or a tire-specialized shop to replace it with a new regular tire.
- Improperly tightened wheel nuts can cause the wheel to become loose and even come off or any malfunctioning in the steering and braking system.
- This could lead to an accident. Be sure to tighten the wheel nuts as specified. If the wheel comes off due to a loose wheel nut, you may have a fatal accident.
- Using different tires could cause you to lose control while driving. Be sure to use the same size and type tires from the same manufacturer on all wheels.

⚠ CAUTION

- After changing the tire and driving the vehicle about 1000 km, retighten the wheel nuts.
- Wheel nut tightening torque: 120 ~ 140 Nm

CAUTIONS WHEN CHANGING THE TIRE

CAUTIONS WHEN CHANGING THE TIRE

► Before changing the tire

- Turn on hazard flashers and move off the road to a safe place away from traffic. Park on a firm and level ground.
- Set up the jack at the specified position. Never get under the vehicle while it is supported by the jack. While the vehicle is on the jack, never start or run the engine or push the vehicle.
- Have all passengers get out of the vehicle and stay in a place away from traffic.

► During changing the tire

- Tighten up the wheel nuts in the diagonal sequence as shown in the picture. Each nut should be turned a couple of times at a time.
- Never apply oil or grease to either wheel studs or nuts as it will cause them to overtighten.

► After changing the tire

- Check, repair, and retighten the replaced tire at the nearest Ssangyong Authorized Service Center or a qualified tire shop after an emergency change.
- Securely store the tire in its carrier. When storing the spare tire, make sure that the outer surface of the tire (wheel nut side) is facing down. And, check to see if the spare tire is securely locked into the carrier without any looseness. Otherwise, it may fall out from the carrier on the road while the vehicle is moving.
- If this happens, the fallen tire can be a great danger to other vehicles or people. Check the tightness of the wheel nuts and tire pressure before driving.

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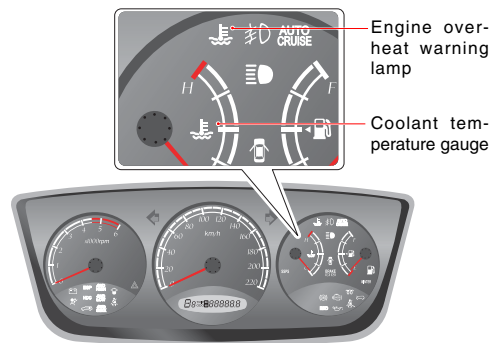
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WHEN THE ENGINE IS OVERHEATING

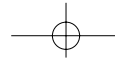
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Symptoms:

- The engine overheat warning lamp blinks (Buzzer sounds)
- The gauge indicates over the normal range (or in the red zone),
- Steam or spray from the engine compartment.
- Reduced engine output.

When the engine overheats, steam or spray may come out the engine compartment. Or, the coolant temperature gauge touches "H". If this happens, the engine overheat warning lamp comes on and a buzzer will sound. Immediately stop your vehicle in a safe place.

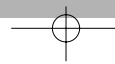
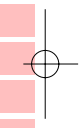


1. Move off the road to a safe place away from traffic. Park on a firm and level ground. Apply the parking brake and shift the transmission to the **P** position (automatic transmission) or the neutral position (manual transmission).
2. Turn off the air conditioner or heater if used. Open the engine hood and idle the engine until it cools.
3. If you see steam under the hood, stop the engine immediately.
If there is no steam, open the hood and leave the engine running in idling speed.
4. However, if the gauge doesn't go down to the normal range even in idling, stop the engine and cool it down.
5. Check the coolant level in the reserve tank. If it is too low, check for leaks in the radiator hoses and connections.
6. Add coolant into the reserve tank if necessary.
7. If necessary, cover the tank cap with a cloth and turn the cap a little to release any pressure. After fully releasing the pressure, remove the cap and fill up the tank. Then, put the cap back on the tank.
8. If the coolant level is normal, have the cooling system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

CAUTION

- When the engine overheats because of the low coolant level, immediately turn off the engine and let it cool down.
- Opening the reserve tank cap should be performed when the engine is off and has cooled down.
- Scalding hot coolant and steam could be blown out under pressure, which could cause serious injury. Never remove the coolant reserve tank cap when the engine and the radiator are hot.
- The engine may be damaged if you add cold water abruptly when the engine is still hot.
- Use only Ssangyong recommended (antifreeze) coolants.
- If the problem continues, have the cooling system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

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WATER SEPARATOR WARNING LIGHT AND ENGINE CHECK WARNING LIGHT

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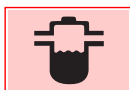
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Water Separator Warning Light



When the water level inside the water separator in the fuel filter exceeds a certain level, this warning light comes on and a buzzer sounds. If these conditions occur, immediately drain the water from the fuel filter & the water separator. For the draining procedures, please refer to "How to drain the water from fuel filter" section in this manual.

WARNING

- The fuel system in the engine may get serious damages if you keep driving while the warning light is on. Prompt correction should be necessary.
- Before starting the engine, perform the pumping operation of the priming pump until it becomes rigid to fill up the fuel pump with fuel.

CAUTION

When the water level inside the water separator in the fuel filter exceeds a certain level, this warning light comes on and a buzzer sounds. Also, the driving force of the vehicle decreases. If these conditions occur, immediately drain the water from the fuel filter & the water separator. If the above conditions are still existing after draining the water, have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.



Engine Check Warning Light



If the light stays on or comes on while driving, some of the engine control components including sensors and other devices are defective. Have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

CAUTION

When this warning light comes on, the engine driving force may be decreased or the engine may stall.

SHIFT LEVER LOCK RELEASE AND SAFETY MODE RESET

Shift Lever Lock Release



1. Apply the parking brake firmly and turn the ignition off.
2. Push the shift lock release lever by inserting a proper stick. Then, with the brake pedal depressed, move the selector lever to "N".
3. Start the engine, release the parking brake, and place the selector lever to the "-D+" position.

⚠ WARNING

- If the automatic gear selector does not move out of "P", take the steps mentioned above and take the vehicle to a Ssangyong dealer or authorized service center. Have the vehicle checked and repaired.
- The brake pedal must be depressed when you try to move the selector.

Symptoms after Resetting of the Safety Mode

- Heavy shock when moving the selector lever
- Decreased driving force while driving at a high speed
- Fixed gear position during driving

If one of these symptoms happens, reset the automatic transmission safe mode.

How to Reset the Safety Mode

1. Park the vehicle and place the selector lever to the "P" position.
2. Stop the engine and wait for over 10 seconds.
3. Start the engine.

⚠ WARNING

If abnormal operation of the transmission (fixed at the 2nd forward gear in the "-D+" position or the 2nd reverse gear in the "R" position) still exists, have the system check by a Ssangyong Dealer or Ssangyong Authorized Service Center.

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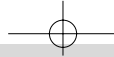
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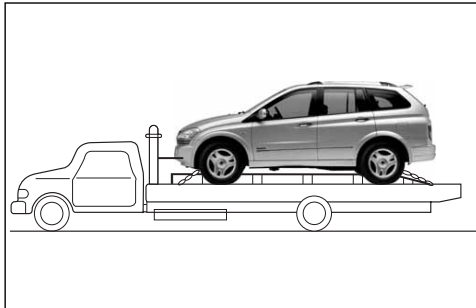
IN CASE OF EMERGENCY

12-17



TOWING A DISABLED VEHICLE

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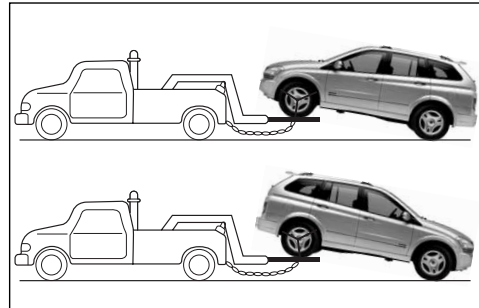


Flat-bed equipment is the best method of moving a disabled vehicle to avoid any damages.

The vehicle equipped with the AWD system should be towed by this way.

⚠ WARNING

- If you tow the vehicle equipped with AWD system while front or rear tires are rolling on the road, the drive system in the vehicle should be severely damaged.



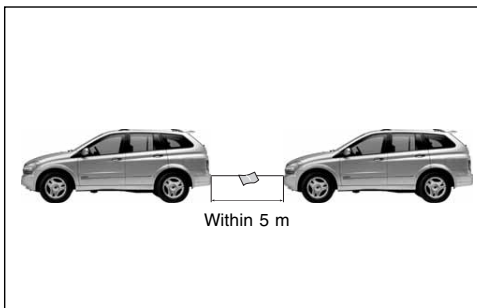
If not available to use a car carrier, tow the vehicle as illustrated.

Choose an appropriate towing method based upon vehicle damage.

⚠ WARNING

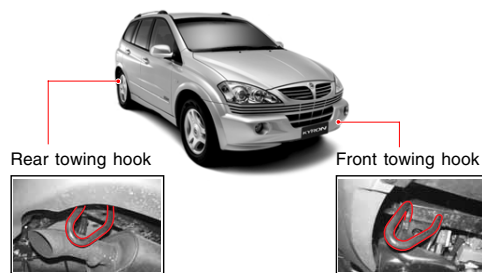
- The propeller shaft for the grounded wheels should be disconnected before towing.
- Because their oil pumps are off during towing, towing the vehicle with the propeller shaft connected can cause internal damage or burning of the transmission or the transfer case.

EMERGENCY TOWING



- When towing your vehicle with the towing rope:
 1. Securely tie up the towing rope to the towing hooks. Secure the rope to both of the towing hooks under the front of the vehicle as tight as possible.
 2. To make the rope conspicuously visible, bind a white colored cloth on the center of the rope.
 3. Place the gearshift lever in the neutral position and release the parking brake.
 4. Switch on the hazard warning flashers of both vehicles.
 5. Maintain the towing distance. Apply more force to depress the brake pedal of the vehicle that will be towed.
 6. Set the ignition in the ON position.
 7. Total length of the towing and towed vehicle and the towing rope should be less than 25 meters. And tow the vehicle within 25 km with 5 km/h of the towing speed. The length of the rope should be less than 5 m.

Location of Towing Hooks



CAUTION

- If you cannot use a professional towing service, the driver of the towed vehicle should stay behind the steering wheel. But, never use this emergency towing when the electrical system, steering system, or brake system is not operative.
- Ensure that only horizontal tension is applied to the front or rear towing hook.
- If there are steep hills or sharp turns in your towing path, do not use this method.
- Depress the brake pedal stronger than normal condition when the engine is not running.
- When your electrical systems operate properly, turn on the hazard warning lamps or turn signal lamps according to the towing vehicle's signals.
- Avoid overloaded towing and do not tow a heavier vehicle than yours.
- Position the ignition switch to "ACC" or "ON" so that the steering wheel is not locked.

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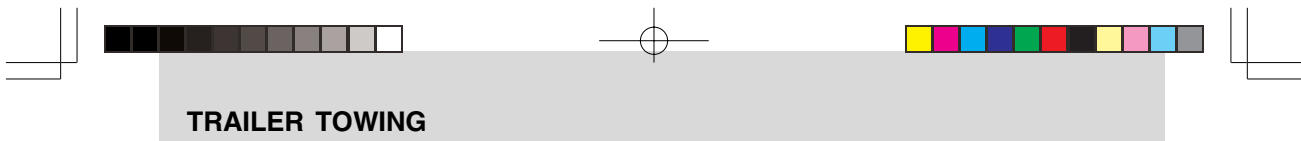
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KYRON

IN CASE OF EMERGENCY

12-19



TRAILER TOWING

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Your vehicle is designed primarily as a passenger vehicle therefore handling, braking, durability and economy will be affected by towing a trailer.

Your safety and satisfaction depend upon proper use of correct equipment. Also, you should avoid overloading and other abusive use.

The maximum loaded trailer weight you can pull with your vehicle depends on your intended use and what special equipment has been installed on it. Before attempting any towing, ensure that the correct equipment is fitted to your vehicle.

Your Ssangyong Dealer will help supply and install towing equipment to suit your requirement.

TRAILER LOADING

To load your trailer properly, you must know how to measure gross trailer weight and trailer ball weight. Gross trailer weight is the weight of the trailer plus all cargo in it.

You can measure gross trailer weight by putting the fully loaded trailer on a vehicle scale.

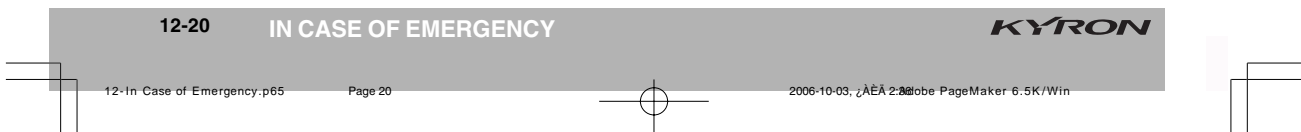
Trailer ball weight is the downward force exerted on the hitch by the trailer coupler at its normal towing height. This weight can be measured using a bathroom scale.

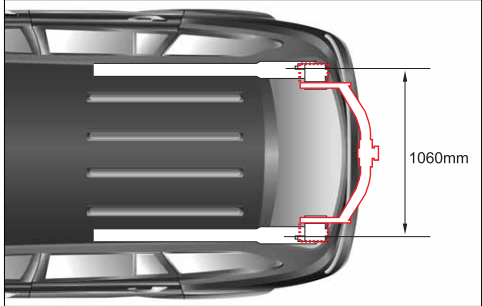
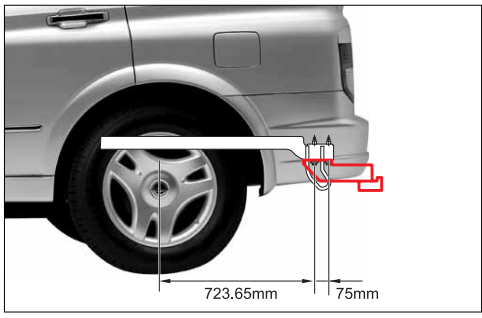
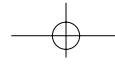
The weight of your loaded trailer (gross trailer weight) should never exceed the specified values.

The maximum permissible trailer ball weight is 92 kg.

The permissible trailer loads are valid for several gradients from 6.8% to 12.6% according to engine power applied.

When the trailer has been coupled, the permissible rear axle load for the fully loaded towing vehicle (including occupants) must not be exceeded.





Maximum Load Limits

(unit: kg)

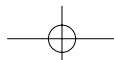
Engine	Type		Maximum Trailer	Maximum permissible static vertical load on the coupling device
D20DT	2WD	with brake	MT 2,100 AT 2,300	92
		without brake	750	
	4WD	with brake	MT 2,300 AT 2,300	
		without brake	750	
D27DT	4WD	with brake	MT 1,950 AT 2,300	
		without brake	750	
G32D	4WD	with brake	2,300	
		without brake	750	

The above dimensions are certified data to meet the following conditions.

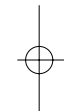
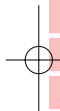
On a 12% of uphill: Capable of 5 starts within 5 minutes (with trailer)

On a 18% of uphill: Capable of 5 starts within 5 minutes (without trailer)

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0	WARNING In higher elevations the engine output and gradability may drop so that it may not be possible for the permissible trailer loads to be fully utilized in mountainous territory. So, the permissible trailer loads should be reduced by 10% at every 1,000 m after reached at 1,000 m of altitude.
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4	WARNING Never exceed the maximum load limits of trailer or trailer towing equipment and be aware that due to the higher load overheating might occur in hot days or during continuous uphill driving.
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8	WARNING Incorrect loading and crosswinds, large trucks passing or road roughness can cause swaying or trailer separation. • Adjust ball load by distribution of load in trailer. • Check by weighing loaded trailer and ball load separately. • Check the relevant state or territory registration authorities for the legal maximum towing weight capacities.
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TRAILER BRAKES

If the trailer brakes are used, you should follow all instructions provided by the manufacturer. Never modify the brake system of your vehicle.

TRAILER LIGHTS

Make sure your trailer is equipped with lights which meet country and local requirements.

Always check for the proper operation of all trailer lights before you start to tow.

TIRES

When towing trailers, be sure your tires are properly inflated to the inflation pressure.

SAFETY CHAINS

Always attach safety chains between your vehicle and the 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. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack to permit full turning. Never allow safety chains to drag on the road.



BRAKE FLUID

Change the brake fluid every 15,000 km (9,000 miles) under the following conditions.

- Towing a trailer frequently.
- Driving in hilly or mountainous terrain.

AUTOMATIC TRANSMISSION FLUID

More frequent maintenance is required if your vehicle tows trailer frequently.

TOWING TIPS

When towing a trailer, your vehicle will handle differently compared with normal driving condition.

For safety, observe the following precautions:

- Practice turning, stopping, and reversing before you begin towing in traffic.
Do not tow in traffic until you are confident that you can handle the vehicle and trailer safely.
- Before driving, make sure that the lighting system of the trailer works properly.
- Do not drive faster than 90 km/h.
- Make sure that you have enough room when cornering and avoid sudden maneuvers.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always have someone guide you when reversing.

- Allow adequate stopping distance.

Stopping distance is increased when you tow a trailer.

- Avoid holding the brake pedal down too long or too frequently, which will cause the brakes to overheat and result in reduced brake efficiency.
- Always block the wheels on both vehicle and trailer when parking. Apply the parking brake firmly.
- Parking on a steep slope is not recommended.

You really should not park your vehicle, with a trailer attached, on a hill.

If something goes wrong, such as the trailer/caravan hitch becoming disengaged, people can be injured and both the vehicle and trailer can be damaged.

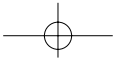
- If someone removing the blocks stands directly behind the trailer, he could be injured. If your brakes or the hitch slipped, the trailer could roll backward. Make sure anyone removing blocks from your wheels stands to one side.
- Take note of trailer manufacturer's instructions.

DRIVING ON HILL

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 work well.

On a long uphill grade, shift down and reduce your speed to a level which minimizes the possibility of engine and transmission overheating.

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PARKING ON HILLS

You really should not park your vehicle, with a trailer attached, on a hill. If something goes wrong, your rig could start to move. People can be injured, and both your vehicle and the trailer can be damaged.

But if you ever have to park your rig on a hill, here's how to do it:

1. Apply your regular brakes, but don't shift into PARK (P) for automatic transmission yet, or into a gear for a manual transmission.
2. Have someone place chocks under the trailer wheels.
3. When the wheel chocks are in place release the regular brakes until the chocks absorb the load.
4. Reapply the regular brakes. Then apply your parking brake, and then shift to PARK (P) for automatic transmission, or First or Reverse gear for a manual transmission.
5. Release the regular brakes.

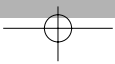
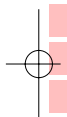
WHEN YOU ARE READY TO LEAVE AFTER PARKING ON A HILL

1. Apply your regular brakes and hold the pedal down while you:
 - Start your engine
 - Shift into a gear and
 - Release the parking brake.
2. Let up on the brake pedal.
3. Drive slowly until the trailer is clear of the chocks.
4. Stop and have someone pick up and store the chocks.

MAINTENANCE WHEN TOWING TRAILER

Your vehicle will need service more often when you're towing a trailer. See the maintenance Schedule for more on this. Things that are especially important in trailer operation are engine oil, brake pads & discs, automatic transmission fluid. Each of these is covered in this manual and the index will help you find them quickly. If you want to tow a trailer, it's a good idea to review these sections before you start your trip.

Check periodically to see that all hitch nuts and bolts are tight.



ACCIDENT OR FIRE



If your vehicle catches on fire, don't panic. Evacuate any occupants and use the extinguisher.

ACCIDENT

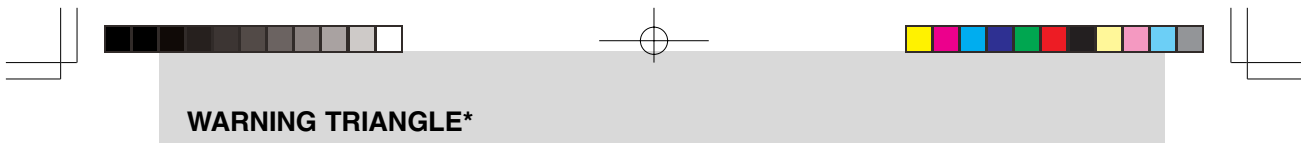
Turn on the emergency hazard warning switch. If possible, move your vehicle to a safe place to avoid any secondary accidents. If anyone is injured, call an ambulance and contact the nearest police station.

FIRE

Stop immediately in a safe place. Turn off the engine. Use fire extinguishers to put out the fire. If it is not possible to extinguish the fire, contact the nearest fire or police station.

- WARNING**
- In an accident, fuel can be released from the vehicle. Therefore, stop the engine and avoid any sparks or flames.
 - If you have even a minor burn, see your doctor.

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WARNING TRIANGLE*

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When you pull over your breaking down vehicle to a safe place, set up a warning triangle behind your vehicle.
(Daytime: 100 meters behind, Night: 200 meters behind)

When the vehicle has a serious problem during driving

1. Turn on the hazard flasher and move the vehicle out of traffic to a safe place. Set up the warning triangle behind your vehicle (days: 100 m, nights: 200 m) to warn other vehicles.
2. Have all passengers get out of the vehicle and stay away from the traffic. When your safety is secured, contact your Ssangyong dealer for your emergency service.

CAUTION

- Set up a warning triangle on a place where it can be very visible while paying attention to traffic conditions.
- On a highway or vehicle-designated road, evacuate yourself to a safe place after pulling over your vehicle.
- At night time, set up a blinking emergency triangle behind your vehicle (over 200 meters) to warn others.
- On a curved road, provide a emergency hand signal to others at the point over 200 meters behind your vehicle.
- If your vehicle is operational or the problem is fixed, resume driving paying extra attention to traffic conditions.



Service and Maintenance

13

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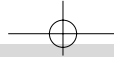
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DAILY CHECK LIST

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The following checks are recommended before driving to maintain safe and dependable vehicle operation.

1. Check the tires for inflation pressure and damage.
2. Check the wheel bolts for looseness.
3. Check the operation of the lights.
4. Check for any oil, water, fuel and fluid leaks.

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Interior



1. Check for the steering wheel's free play and looseness.
2. Check the parking brake lever.
3. Check the operation of the horn, windshield wipers and turn signals.
4. Check the operation of the instrument cluster and indicator warning lights.
5. Check the level of fuel in the fuel tank.
6. Check the position of the rearview mirrors.
7. Check the operation of the door and window locking mechanism.
8. Check the brake's and clutch pedal's free play, height and function.
9. Check the seat belts.

CAUTION

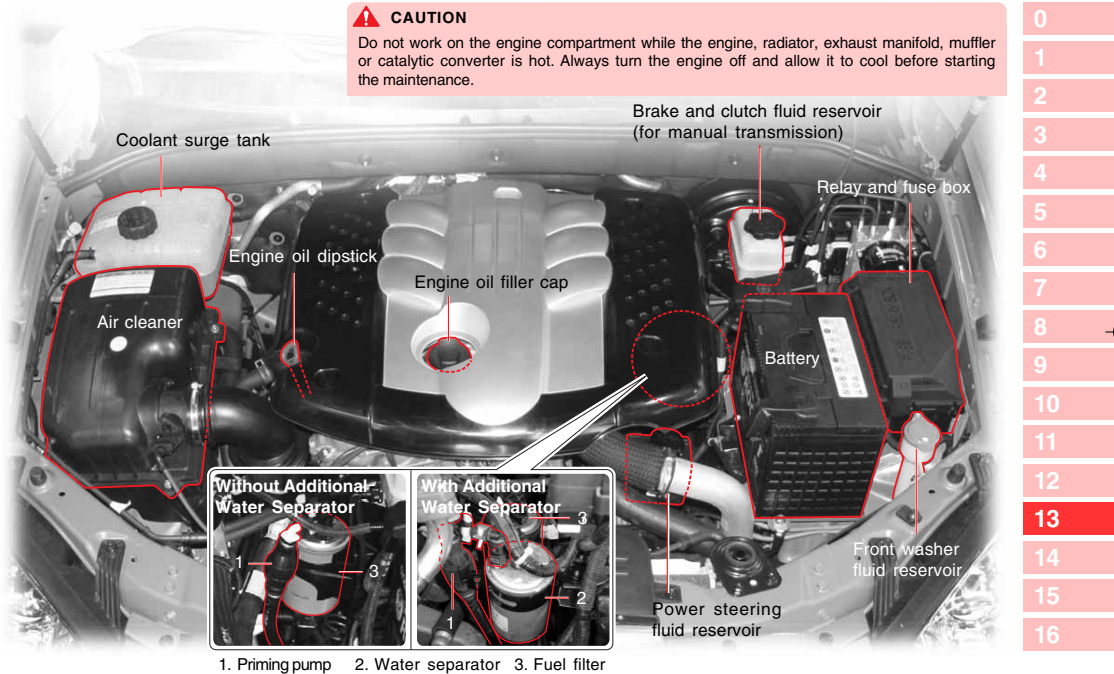
If in doubt about driving and operating conditions, have your vehicle checked at a Ssangyong Dealer or Ssangyong Authorized Service Center.

LOCATIONS IN ENGINE COMPARTMENT

D27DT DIESEL ENGINE

CAUTION

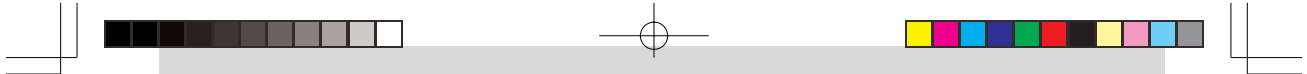
Do not work on the engine compartment while the engine, radiator, exhaust manifold, muffler or catalytic converter is hot. Always turn the engine off and allow it to cool before starting the maintenance.



KYRON

SERVICE AND MAINTENANCE

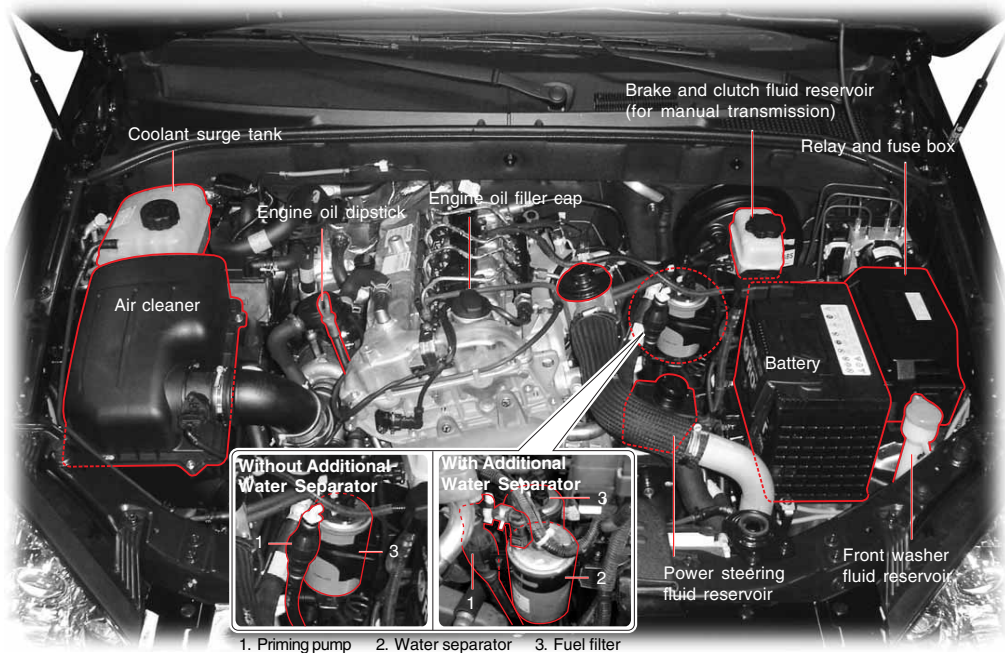
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LOCATIONS IN ENGINE COMPARTMENT

D20DT DIESEL ENGINE

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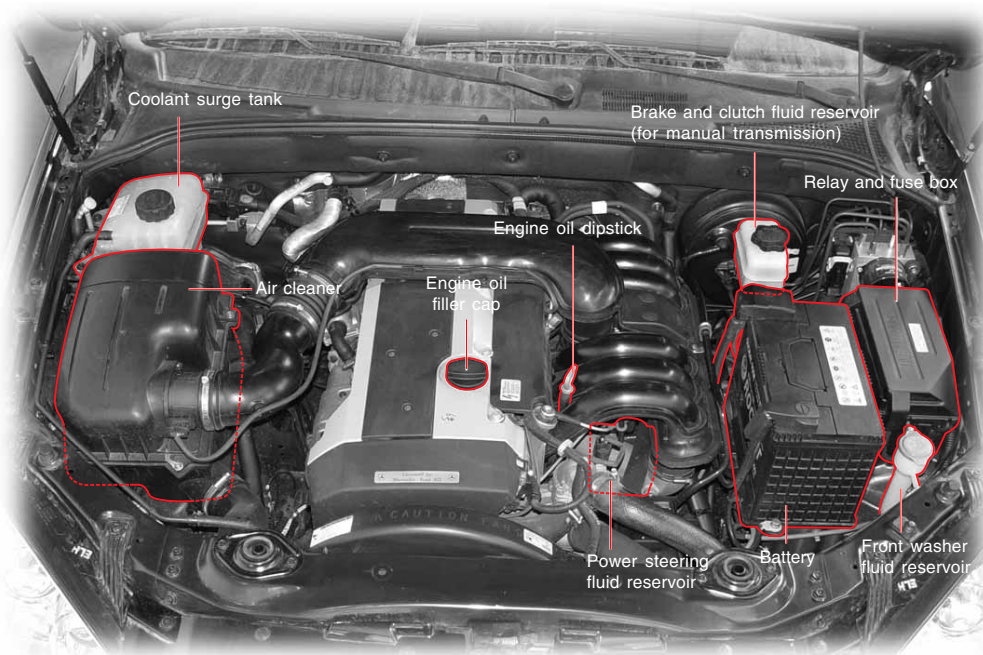
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SERVICE AND MAINTENANCE

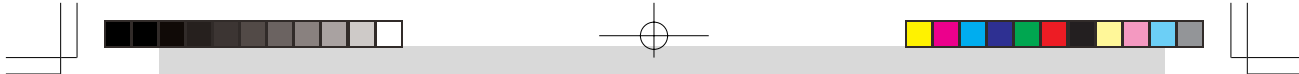
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LOCATIONS IN ENGINE COMPARTMENT

GASOLINE ENGINE



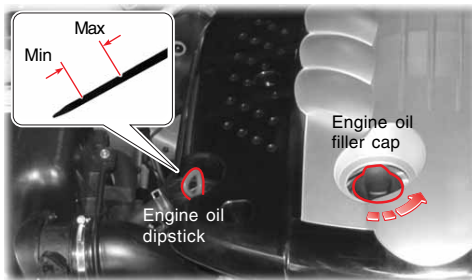
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Diesel Engine



Level Check

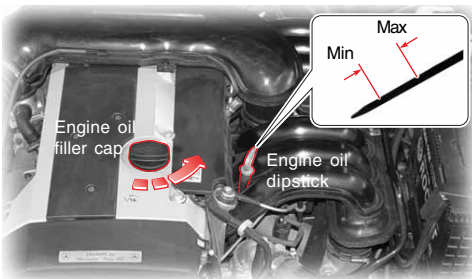
Park the vehicle on a level ground and apply the parking brake. Stop the engine and wait more than 5 minutes.

1. Pull out the dipstick and wipe it with a clean cloth. Reinsert it all the way.
2. Pull out it again and check the oil level.
3. The oil level should be between the maximum (Max) mark and minimum (Min) mark on the oil dipstick. Oil should be replenished before the level goes below the minimum mark.

Replenishment

1. If the level gets to the lower point, open the filler cap on top of the cylinder block and add the genuine oil without exceeding the level of the upper mark.
2. Recheck the oil level after 5 minutes.

Gasoline Engine



FUNCTION OF ENGINE OIL

Engine oil's major function is to lubricate and cool the parts inside of the engine, which enables engine to work properly.

Consumption of Engine Oil

The consumption of engine oil is depending on the viscosity and quality of the oil, and the driving habit. More oil may be required under the following conditions;

- When the Vehicle is New

A new engine usually consumes more oil because its pistons, piston ring and cylinder walls are not yet adjusted with an optimal condition.

Oil Consumption : Max. 0.8 Liter per 1,000 km

Accordingly, it is necessary for the driver to check frequently the oil level and to replenish oil if needed. SYMC recommends that the oil level be checked every time you refuel the vehicle or you drive the long distance until the first 5,000 km.

- When driving at High Engine Speeds

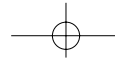
As long as you keep the followings with sufficient care in your first running the vehicle, it will guarantee you to get excellent and comfortable performance for a long with your vehicle.

- Remember to check the engine oil level and shorten the cycle to refuel the engine oil under severe driving conditions.
- Avoid subjecting to engine to heavy loads by driving at full throttle, especially be careful when the outside temperature remains below freezing for the first 1,000 km.
- Do not use the trailing in the first 1,000 km driving

* What's Severe Driving Condition?

- Driving at the high engine speed or at high-speed
- Driving for consecutive two hours at high speed
- Driving the rough road, off-road, dirt-laden road, and muddy roads
- Driving in areas where salt or other corrosive materials are being used
- Repeated driving in short-distance
- Driving with the excessive idling
- High load driving such as trailing

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CHANGE INTERVAL

- The engine oil filter element should be changed at the same time with the engine oil.
- Use only the Ssangyong genuine engine oil and filter.

Engine oil

Diesel Engine

	Service Interval
EU	Initial check: 5,000 km, and replenish if necessary, change every 15,000 km or 12 months (But, shorten the service interval under severe condition)
GENERAL	Initial change: 5,000 km, change every 10,000 km or 12 months (But, shorten the service interval under severe conditions)

Gasoline Engine

Service Interval
Initial change: 10,000 km, change every 15,000 km or 12 months (But, shorten the service interval under severe condition)

Engine oil filter

	Service interval
Engine oil filter	Same interval with the engine oil

SPECIFICATION AND CAPACITY

Specification	Quality class: Ssangyong genuine engine oil (Approved by MB Sheet 229.1 or 229.3)	
	Viscosity: MB sheet No. 224.1	
Capacity	D20DT	7.5L
	D27DT	8.5L
	G32D	9.0L

WARNING
Use only Ssangyong genuine engine oil and filters. Use of non-recommended products could cause damage to the engine.

WARNINGS AND CAUTIONS WHEN CHECKING

WARNING

- Clean the dipstick with a clean cloth so that any foreign materials cannot get into the engine.
- Use only the Ssangyong genuine engine oil.
- The oil should not go above the upper mark on the dipstick.
- Operating with insufficient or too much amount of oil can damage the engine.

CAUTION
Regularly check the engine oil level and add the Ssangyong genuine engine oil if necessary.

SAE VISCOSITY CLASSES

The SAE classes (viscosity) should be selected in accordance with the average seasonal air temperature.

Applying the SAE classes exactly on the basis of the outside air temperatures would necessitate frequently changing the engine oil. The temperature limits for the SAE classes should therefore be regarded as reference temperatures and the actual air temperature may be higher or lower for a short period of time.

* How to check engine oil specification

Example:

0W, 5W, 10W, 15W, 20W, 25W 20, 30, 40, 50, 60

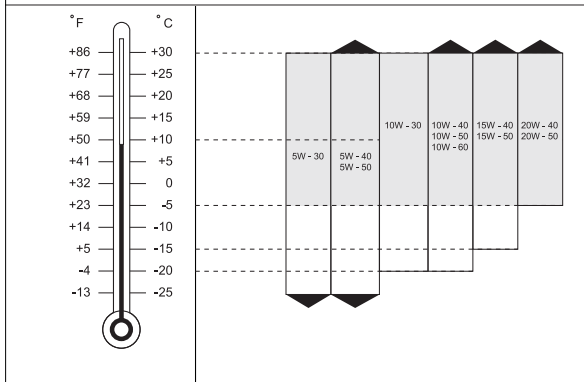
Summer oil viscosity
Winter oil viscosity
(W: Winter)

- The numerical, for example SAE 10W, relates to viscosity at particular temperature and the alphabet "W" indicates the oil's suitability for colder temperature.

For summer oil viscosity, higher numbers mean higher viscosities.

Engine

The viscosity should be selected according to outside temperature. Do not switch to a different viscosity in the event of brief temperature fluctuations.



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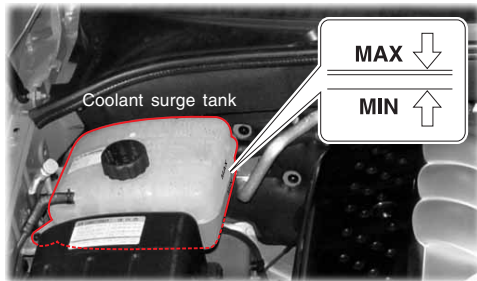
KYRON

SERVICE AND MAINTENANCE

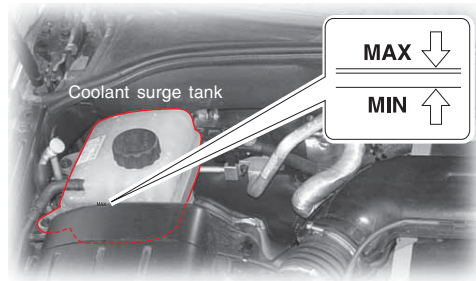
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ENGINE COOLANT

Diesel Engine



Gasoline Engine



Level Check

Park the vehicle on level ground and apply the parking brake. Stop the engine and wait until it cools.

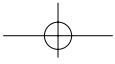
1. The coolant level should be between the MAX and MIN mark on the coolant surge tank.
2. Check the coolant level. If the level is below the "MIN" mark, immediately add coolant.

Service Interval

- Replacement: Every 3 years or every 60,000 km

Diesel Engine (D20DT)	10.5 - 11.0 ℓ	Ssangyong genuine coolant
Diesel Engine (D27DT)	11.0 - 11.5 ℓ	Anti-Freeze:SYC-310
Gasoline Engine (G32D)	11.5 - 12.0 ℓ	Anti-Freeze:Water = 50:50

- Check: Everyday, before driving off
- Replenishment: Replenish as necessary



Replenishment

Use only the 50/50 mixture of soft water and antifreeze as specified.

1. Open the coolant surge tank cap slowly when the engine is cold. At this time, you can hear a “hissing” sound.
2. When there is no more “hissing” sound, remove the cap from the surge tank.
3. Add the 50:50 mixture of water and antifreeze to the coolant reservoir tank.
4. If no unusual things happen, tighten the coolant reservoir cap.

Caution

- Avoid any direct contact of the coolant to the painted body of the vehicle.

WARNING

When the coolant level is too low, the engine can overheat. If the coolant temperature gauge in the instrument cluster goes up abnormally, immediately check the coolant level. Use only the Ssangyong genuine coolant and anti-freeze. If different types of coolants or unapproved coolants are used to refill, chemical reactions can be caused and block the flow of the coolant. This may cause the engine to overheat or burning inside the engine.

WARNING

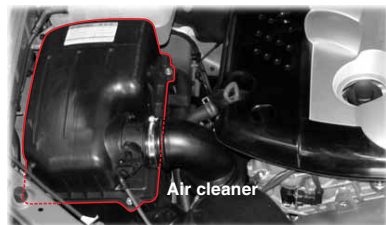
- Scalding hot coolant and steam could be blown out under pressure, which could cause serious injury. Never remove the coolant surge tank cap when the engine and radiator are hot.
- Use only the Ssangyong genuine coolant and anti-freeze.

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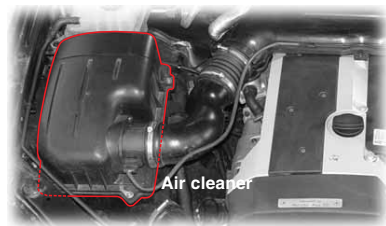


AIR CLEANER

Diesel Engine



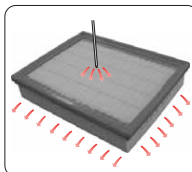
Gasoline Engine



Change

1. Unscrew the cover bolts and remove the cover.
2. Replace the air cleaner element with a new one. Make sure that the element is correctly installed in the air cleaner housing.
3. Close the cover and tighten the bolts.

Cleaning



Blow the compressed air through the element in the opposite direction to normal air flow to clean the element.

Diesel	EU: Initial clean: 5,000 km, clean every 15,000 km, replace every 30,000 km (But, shorten the service interval under severe condition)
	GENERAL: Initial clean: 5,000 km, clean every 10,000 km, replace every 30,000 km (But, shorten the service interval under severe conditions)
Gasoline	Clean every 15,000 km, replace every 60,000 km (But, shorten the service interval under severe conditions)

WARNING

- Do not drive your vehicle with an improperly installed air cleaner element or without it. It may damage the engine or may cause a fire.
- Do not let any object enter the housing when cleaning the air cleaner. It may damage the engine or may cause an engine to stall.

CAUTION

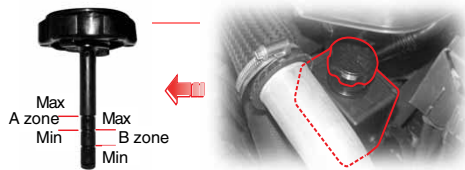
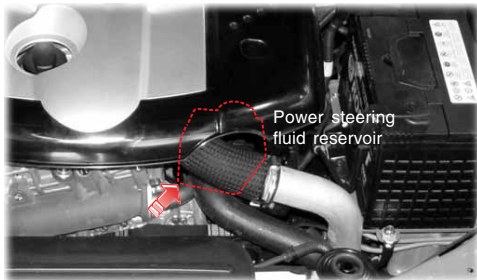
- If you blow the compressed air to normal air flow, the engine will be damaged due to foreign materials entering.
- Be careful with the direction of the compressed air on the air cleaner.

CAUTION

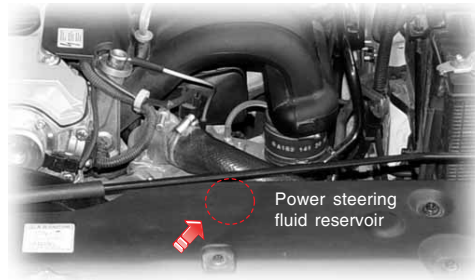
- If vehicle is operated under severe condition
- Pollutant area or off-road driving
 - Driving in dusty condition or sandy condition
- frequently inspect the air cleaner, if necessary, change the air cleaner.

POWER STEERING FLUID

Diesel Engine



Gasoline Engine



Check the fluid level on a level ground with the engine turned off. The fluid level should be between the MIN and MAX marks on the reservoir cap gauge. If it drops to or below the MIN mark, refill the reservoir with the specified fluid. Only use the specified fluid. The difference between the MIN and MAX marks shows fluctuations of the steering fluid between when it is hot and when it is cold.

Specification and Capacity

Specification	ATF DEXRON II or III
Capacity (L)	Approx. 1.0

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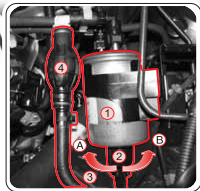
KYRON

SERVICE AND MAINTENANCE

13-13

FUEL FILTER AND PRIMING PUMP (Without Additional Water Separator) D20DT, D27DT DIESEL ENGINE

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- Ⓐ Plug opening direction
- Ⓑ Plug closing direction
- ① Fuel filter
- ② Water drain plug
- ③ Connector
- ④ Priming pump

- Change the fuel filter at every 30,000 km (EU) or 25,000 km (General) of driving.
- Drain water from the fuel filter whenever replacing the engine oil.
- After changing the fuel filter, perform the pumping operation of the priming pump until it becomes rigid.

⚠ CAUTION

- Change the fuel filter according to the specified service interval.
- Drain water from the fuel filter whenever changing the engine oil.
- After changing the fuel filter or draining the water, perform the pumping operation of priming the pump until it becomes rigid.



Water Separating Function

If water in fuel gets into the engine and fuel system, it may cause serious damage to the fuel system. The fuel filter provides the water separating function to block the inflow of water. When the water level inside the water separator in the fuel filter exceeds a certain level, the warning light comes on and the buzzer sounds. If it occurs, immediately drain water from the fuel filter. For draining procedures, refer to "How to drain the water from fuel filter" section in this manual.

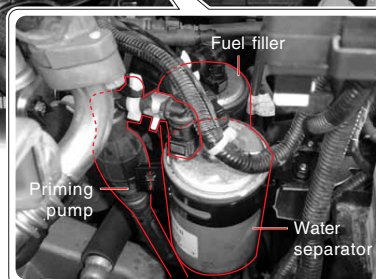
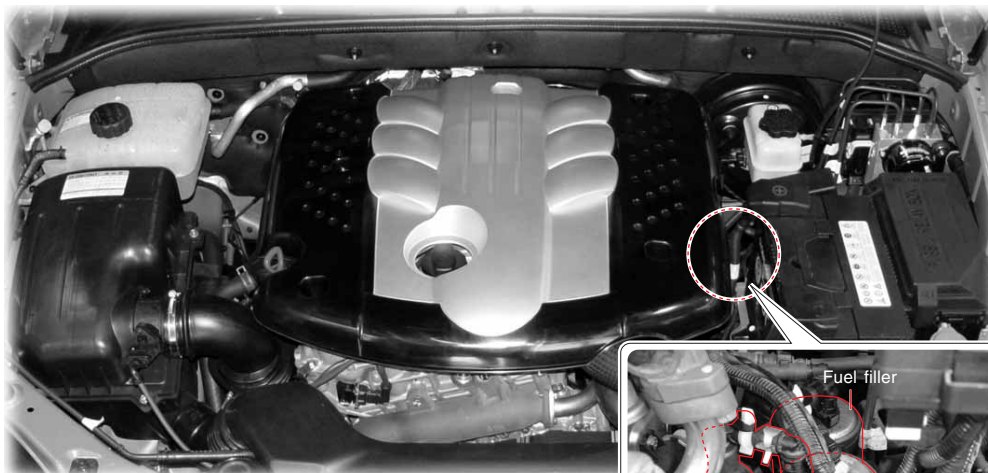
Priming Pump Operating Conditions

1. when completely consumed the fuel
2. after draining the water from the fuel filter
3. after replacing the fuel filter

Before starting the engine, perform the pumping operation of the priming pump until it becomes rigid to fill up the fuel pump with fuel.

FUEL FILTER AND WATER SEPARATOR (With Additional Water Separator) DIESEL ENGINE

D20DT, D27DT

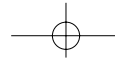


Priming Pump Operating Conditions

1. If the vehicle has been run out of fuel
2. After draining water from the fuel filter.
3. After replacing the fuel filter

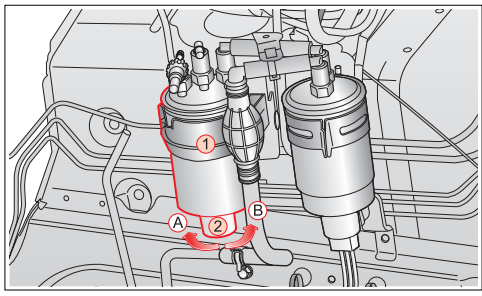
Before starting the engine, perform the pumping operation of the priming pump until it becomes rigid so that the fuel pump fills up with fuel.

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FUEL FILTER



- 1. Fuel filter A. Opening direction of drain plug
- 2. Drain plug B. Closing direction of drain plug

If particles in fuel get into the engine and fuel-related devices, it may cause serious damage in affected components. Make sure to replace the fuel filter according to the specified maintenance schedule.

Make sure that the foreign materials get into the fuel filter while changing the fuel filter, and clean around it to prevent particles from flowing into the filter.

Press the priming pump until it becomes rigid.

• Service Interval

EU	Replace every 30,000 km (Draining water from fuel filter: whenever replacing the engine oil)
General	Replace every 25,000 km (Draining water from fuel filter: whenever replacing the engine oil)

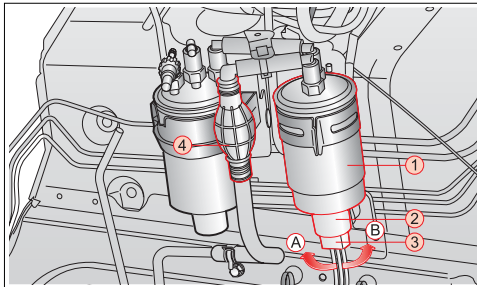
Water Separating Function

If the water in fuel gets into the engine and the fuel system, it may cause serious damage in the fuel system. The fuel filter offers the water separating function to block the inflow of water.

⚠ CAUTION

- Replace the fuel filter according to the specified maintenance schedule.
- Drain the water from the fuel filter whenever replacing the engine oil.
- After replacing the fuel filter or draining the water, press the priming pump until it becomes rigid.

WATER SEPARATOR



1. Water separator
 2. Drain plug
 3. Connector
 4. Priming pump
- A. Opening direction of drain plug
B. Closing direction of drain plug

The water separator is used in the fuel supplying system in order to reduce the water content in the fuel provided to the FIE system. It gives additional water volume storage. A water sensor is fitted to the water separator in order to warn the driver that the water separator has to be drained.

When the water level in the water separator reaches a certain point, the water separator warning light in the instrument cluster comes on.

- Service Interval
Change every 150,000 km or 5 year

Location:

Behind the fuel filter (between the fuel filter and the dash panel) in the engine compartment (engine intake side)

Draining the Water from Water Separator

Drain the water from the water separator whenever replacing the engine oil.

After draining the water, press the priming pump until it becomes rigid. Do not crank the engine before doing this procedure. For the detailed draining procedures, please refer to "How to drain the water from the fuel filter" in the water separator warning light section.

CAUTION

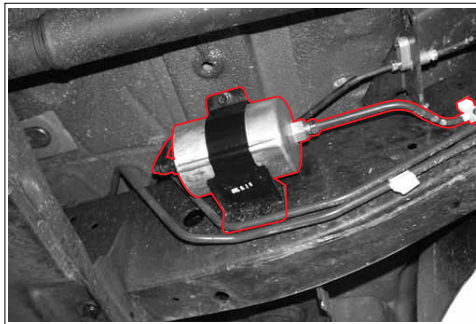
- Replace the water separator according to the specified maintenance schedule.
- Drain the water from the water separator whenever replacing the engine oil.
- After replacing the water separator or draining the water, press the priming pump until it becomes rigid.

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FUEL FILTER (FOR GASOLINE)

GASOLINE ENGINE

FUEL FILTER



If the filter is contaminated, the supplied fuel will be reduced, main components will be damaged due to entering the contaminated materials and the performance of catalytic converter will be deteriorated.

Replace the fuel filter according to the specified maintenance schedule.

Service Interval

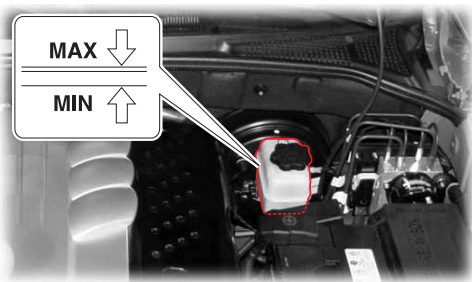
Replacement	Every 100,000 km (if using poor quality of fuel, replace every 30,000 km)
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CAUTION

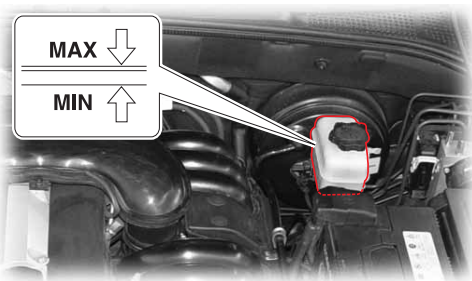
Replace with a Ssangyong genuine part with specified intervals.

BRAKE AND CLUTCH FLUID (WITH M/T)

Diesel Engine



Gasoline Engine



Specification and Replacement

Specification	DOT 4
Service interval	Every 2 years

Level Check and Replenishment

- The fluid level should be between the "MAX" and "MIN" levels on the reservoir.
- Check the level on a level surface. If it drops to or below the MIN mark, refill the tank with the specified fluid. Only use the specified fluid.

CAUTION

- Be careful not to let any foreign materials enter the tank when adding the fluid.
- Do not add the fluid above the "MAX" level.
- Do not allow the fluid to make contact with the body paintwork.
- After adding the fluid, tighten the cap securely.
- If frequent refills are required, have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

WARNING

- Use only the Ssangyong genuine brake fluid.
- Do not allow the fluid to make contact with skin or eyes. If contact happens, rinse affected areas immediately with plenty of water. If irritation persists, consult a doctor.
- The fluid gradually decreases according to brake pad wear. A sudden drop of the fluid level may indicate a leak in the system. In this case, have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

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KYRON

SERVICE AND MAINTENANCE

13-19

WASHER FLUID

0 TOP UP WASHER FLUID

1 Diesel Engine



Frequently check the washer fluid level and add the specified product as needed.

In winter, use only the specified washer liquid for winter season.

⚠ WARNING

- The washer fluid includes flammable materials to prevent freezing. It could cause a fire when directly contacted with flames. When checking the washer fluid, avoid the flames near the washer fluid tank.
- If engine oil or antifreeze is used as the washer fluid, it will decrease your visibility through the windshield and may cause an accident.

9 Gasoline Engine

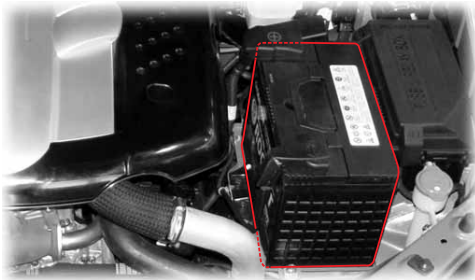


⚠ CAUTION

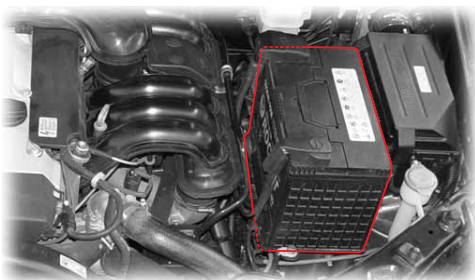
- If you use plain water as washer fluid, it will freeze during the winter and damage the washer fluid reservoir and motor. Use only the specified washer fluid.
- If you operate the washer switch without washer fluid, the motor could be damaged due to overloads. Therefore, if there is no washer fluid, do not operate the washer motor.
- Operating the wipers on a dry surface on the windshield or rear window without any washer fluid may cause damage to the glass. Operate the wipers after sufficiently spraying the washer fluid.
- Avoid any spills of washer fluid on the engine or body paint of your vehicle during replenishment. If washer fluid spills onto your hand or other body part, wash it away under a clean water flow.
- There is no independent washer reservoir for the tailgate window. The front washer reservoir is also for the tailgate window.

BATTERY

Diesel Engine



Gasoline Engine



When the battery charge warning light (🔋) on the instrument cluster comes on, the battery is not normally charging. If the warning light comes on while driving, turn off all unnecessary electrical devices and have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

Battery Maintenance

- Make sure the terminal connections are securely tightened.
- If the terminals are corroded, clean them with a wire brush or sand paper.
- The battery terminal should be disconnected only when the ignition key is removed from the key cylinder. Disconnecting the terminal with the key in the "ON" or "ACC" position may cause a sudden change in voltage and damage various electrical systems.
- Check the battery for any cracks, damages or leaks. Replace it if necessary. To remove any battery fluid on the battery surface, wear rubber gloves and wipe the fluid out with a wet-soapy cloth.

Specification

Specification	DC 12V
Capacity	90AH

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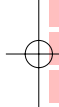
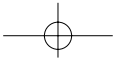
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KYRON

SERVICE AND MAINTENANCE

13-21



0	⚠ WARNING
1	• The battery has acid that can burn you. And its gas can explode. You can get serious injuries if you are not careful. Keep naked flames, sparks and smoking items away from the battery.
2	• Loosely connected batter terminals can set up sparks. These sparks can cause a fire with flammable gas. Therefore, tightly connect the terminals.
3	• At night, if you need to check the engine room, do not use a lighter, but only use a battery-powered flashlight.
4	• Because the battery electrolyte is very strong acid, avoid any direct contact of the battery electrolyte on your skin or vehicle's body. If the acid contacts your skin, thoroughly wash your skin with fresh water and see your doctor. Do the same on your vehicle.
5	• Wear eye protection when working with a battery. If working in a closed area, keep good ventilation.
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- ⚠ CAUTION**
- If you disconnect the battery terminal when the engine is running, electrical systems could be damaged.
 - To remove the battery cable, disconnect the negative cable first. And be careful on the battery terminal polarity when you connect the cables. The negative and the positive should not be confused.
 - The polarity of the battery, i.e. the connections for positive and negative cables, must not be interchanged. Never short-circuit the battery.
 - When the ambient temperature is too low, the battery capacity will drop and can be frozen.
 - Keep the battery electrolyte at its specified level. If the electrolyte level is higher than the MAX level, it can overflow during battery charging and if the electrolyte is overcharged, the battery can explode.
 - Only use a battery with the approved voltage and capacity. Otherwise, an incompatible battery can catch fire.

FUSE AND RELAY BOX

If any of the electrical system components do not operate, check its corresponding fuse. If the fuse is blown, replace it with the same capacity.

Interior Fuse and Relay Box



The fuse box is located at the right side of the instrument panel. To access the interior fuse box, open the passenger's door and remove the fuse box cover with a screwdriver.

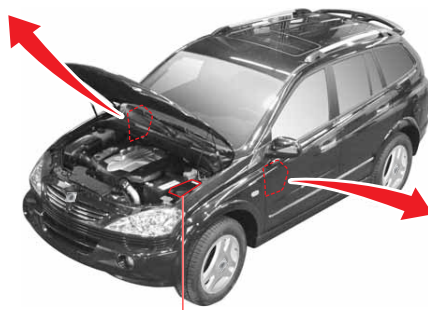
CAUTION

- When an electrical system does not operate, check its fuse first. If a fuse is blown, check its capacity and replace it with the same capacity.
- If you remove an electric system's fuse while the system is operating, the electrical equipment could be damaged. Always remove the ignition key from the ignition switch and turn off all electric devices.
- Always replace a specified fuse with the same rating.
- If a newly inserted fuse blows again after a short time, have the electrical system checked and repaired by a Ssangyong Dealer or Ssangyong Authorized Service Center.

Interior Fuse and Relay Box



The fuse box is located at the left side of the instrument panel. To access the interior fuse box, open the driver's door and remove the fuse box cover with a screwdriver.



Engine Compartment
Fuse and Relay Box

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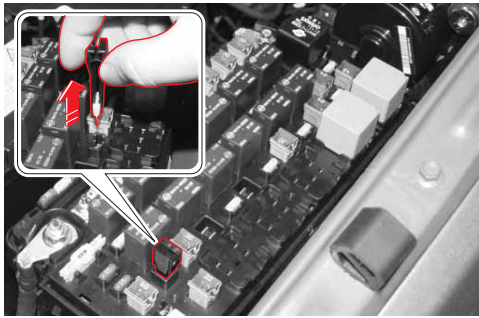
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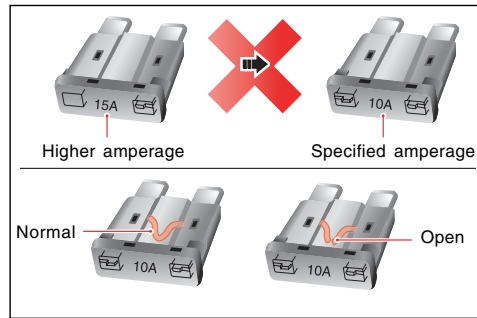
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HOW TO CHECK AND REPLACE FUSE



1. Turn off all electrical systems and remove the ignition key from the key cylinder.
2. Open the fuse and relay box cover.
3. Locate the defective fuse.
4. Pull out the relevant fuse by using the fuse puller.
5. Visually check whether it is blown or not.
6. If normal, insert it to its original position.
7. If blown, check its capacity and replace it with the same capacity.



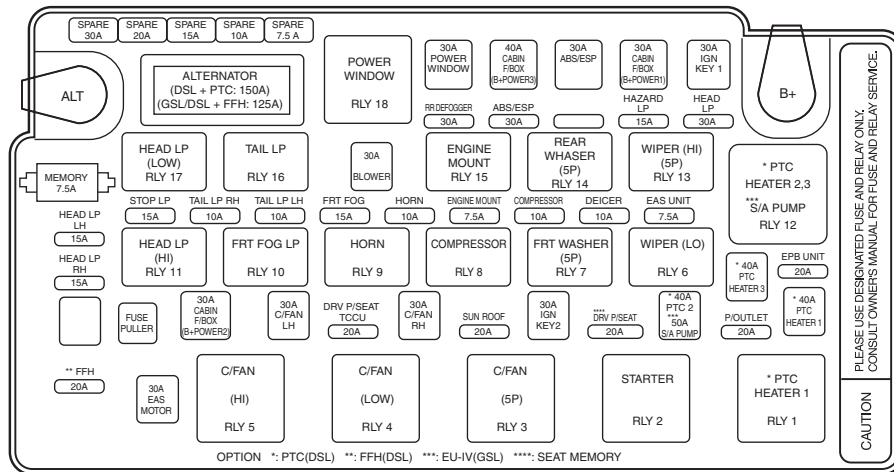
⚠ WARNING

- The use of anything other than the specified fuse could cause damage to the electrical system and even cause a fire.
- The use of different types or different rating fuses could cause damage to the electrical system and even cause a fire. Always replace a fuse with the one with the same rating.

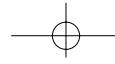
NOTE

The underhood fuse and relay box has some spare fuses. Refill the fuses immediately as you use them. The fuse rating is indicated on the upper surface of the fuse.

ENGINE ROOM FUSE BOX LABEL

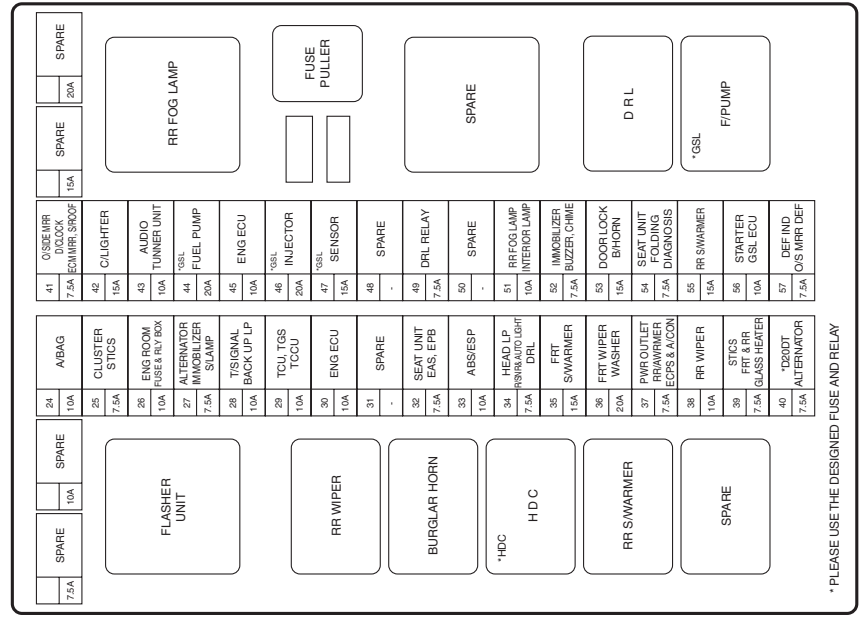


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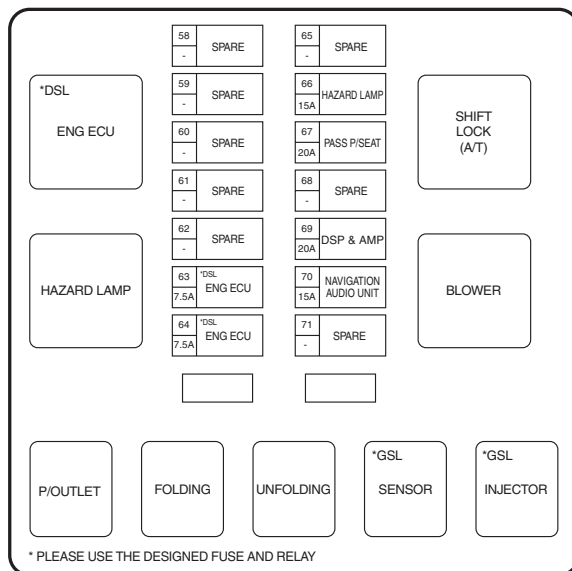
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INTERIOR FUSE BOX LABEL (DRIVER'S SIDE)



* PLEASE USE THE DESIGNED FUSE AND RELAY

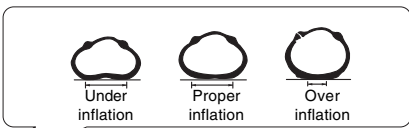
INTERIOR FUSE BOX LABEL (PASSENGER'S SIDE)



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TIRE INFLATION PRESSURE



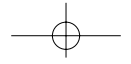
Tire Pressure

Driving tires	Spare tire
30 psi (2.06 bar)	60 psi (4.13 bar)

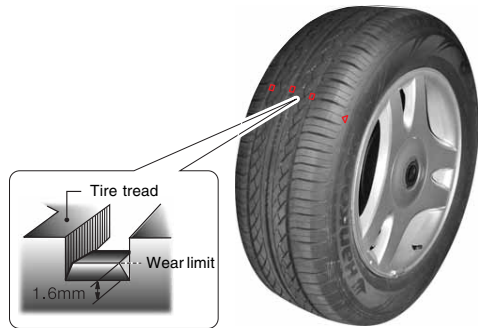
NOTE
The tires should be checked before they are heated up using an tire pressure gauge. Increase the tire inflation pressure by 4–5 psi from the specified value prior to any long journey.

CAUTION

- Maintaining the specified tire pressure is essential for comfortable riding, driving safety, and long tire life. Incorrect inflation pressures will increase tire wear and will impair safety, vehicle handling, comfortable driving and fuel economy. Always make sure that the tire inflation pressure is correct.
- Check and adjust the tire inflation pressure, including the spare wheel, prior to any long journey (before the tire is heated up).
- Even the temporarily installed spare tire should be inflated properly.



TIRE WEAR CHECK

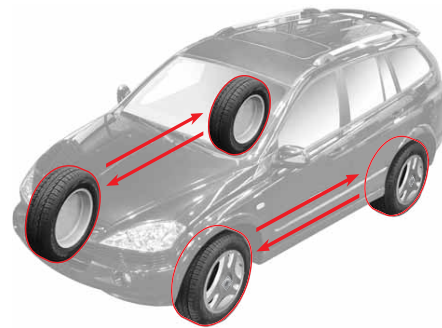


The tires on your vehicle have built-in tread wear indicators that appear between the tread grooves. The tire should be replaced when the wear indicators appear in two or more adjacent grooves.

⚠ WARNING

- Driving on worn or damaged tires is very dangerous and may cause an accident. Also, a damaged tire could burst.
- Check tires regularly for any damage (foreign objects, punctures, cuts, cracks, bulges in side walls) and replace if necessary.

TIRE ROTATION



To avoid uneven wear of tires and to prolong tire life, inspect and rotate your tires every 5,000 km.

⚠ WARNING

- Be sure to replace and rotate the tires at a Ssangyong Authorized Service Center or professional tire shops.
- Mixing tires could cause you to lose control while driving. Be sure to use the same size and type tires of the same manufacturer on all wheels.

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SPARE TIRE AND WINTER TIRE

0 SPARE TIRE

The temporary spare tire is only for an emergency. Do not use it for normal driving. With these tires, do not drive more 80 km/h. The spare tire should be replaced with a regular tire as soon as possible.

1
2 Check the tire conditions and pressure as needed and always keep it available. For replacing procedures, refer to "In Case of Emergency" section in this manual.

3 4 **CAUTION**

After replacing the tire, be sure to adjust the pressure to the specified pressure of the tire. Otherwise, the suspension system and driving system may be damaged.

6 WINTER TIRE

7 Use snow tires when driving on snowy or icy roads.

8 If winter tires are used, they must be installed to all 4 wheels.

9 10 **WARNING**

- Drive very slowly with extra caution on snowy or icy roads.
- The snow tire with arrow direction markings on its side wall should be installed according to the arrow direction.
- The snow tires cannot guarantee your safety on icy and slippery road. Drive with extra caution, avoiding sudden acceleration, braking or movements of the steering wheel.
- When the snow tires are not needed anymore, replace them with ordinary tires. Keep the removed snow tires in a cool and shady place. Be careful not to contact them with any oil, grease, or fuel.

14 TIRE CHAIN

15 Chains must be installed on the rear wheels only.

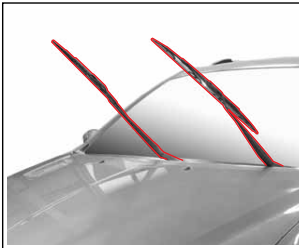
16 **CAUTION**

If you have to install the chains on the front wheels, drive cautiously and avoid severe turns to prevent the surrounding parts from being damaged.

CAUTIONS FOR WHEEL AND TIRE

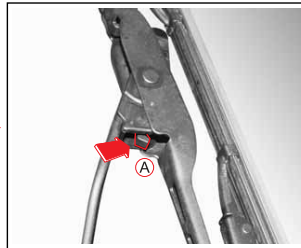
- Mixing tires could cause you to lose control while driving. Be sure to use the same size and type of tires of the same manufacturer on all wheels. If you do not use the same tires on the vehicle equipped with the TOD (4 wheel drive), it may cause a serious damage to the vehicle's drive system.
- Check the inflation pressure, cracks and tearing of tires before driving.
- Improperly tightened wheel nuts can cause the wheel to become loose and even come off. This could lead to an accident. Be sure to check and tighten the wheel nuts as specified before any long journey.
- Do not use non-genuine wheel and tire. Non-genuine wheel and tire may have inferior performance and function and dangerous for safe driving. Also, any defects due to using them cannot be covered by warranty.
- Be sure to check the tires and wheels before driving. If a wheel is damaged, the tire inflation pressure can be decreased and the tire can be damaged.
- If a tire has been impacted by a stone or any other objects during driving, have it checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.
- The use of tire sizes other than the specified sizes may cause abnormal operation of the steering wheel, increased fuel consumption, damage to the powertrain or the braking system, vibration, or uneven tire wear. Always use the specified tires from the same manufacturer.

WIPER BLADE REPLACEMENT



1. Lift the wiper arm up from the windshield.

- The tailgate wiper blade can be replaced in the same manner.



2. Press the safety button (A).



3. Slide the blade down and remove it from the arm.
4. Install a new blade.
5. Put the wiper arm down.

CAUTION

- Do not open the hood when the wiper arm is lifted up. The wiper and hood may be damaged.
- Do not operate the wiper when the washer fluid reservoir is empty.
- Be certain not to apply any fluid polish containing oil to the windshield of your vehicle since this will result in streaks which impair vision. Contamination of either the window or the wiper blades with foreign materials can reduce the effectiveness of the windshield wipers. Never clean up the windshield with a waxed or oil-saturated cloth.

WARNING

- Malfunctioning wipers on a raining or snowing day may be detrimental to your driving safety. Never drive your vehicle with malfunctioning wipers on a raining or snowing day.
- Do not touch the running wipers. It may cause a personal injury.

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SPARK PLUGS (FOR GASOLINE)

GASOLINE ENGINE

0 SPARK PLUGS



Spark plugs should be inspected periodically for carbon deposits. When carbon accumulates on a spark plug, a strong spark may not be produced.

If necessary, clean the electrodes with a fine wire brush and carefully scrape the carbon off the insulator with a small file. The spark plugs should then be blown clean with compressed air and the upper insulator wiped clean. And adjust the spark plug gap.

Service Interval

Replacement (G32D)	Change every 60,000 km
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⚠ CAUTION

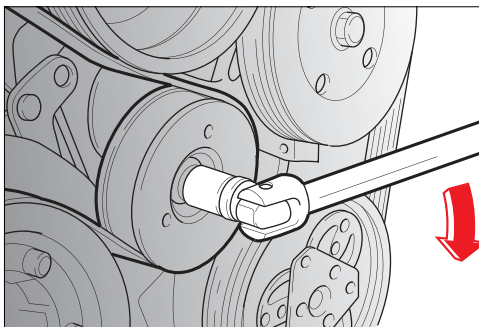
- When replacing the spark plugs, disconnect the negative terminal of the battery and turn off all the switches.
- It is recommended that the engine be cool or cold when changing the spark plugs (you could burn yourself).
- Do not use non-recommended spark plugs.
- Do not allow contaminants to enter spark plug hole.

⚠ WARNING

Spark plugs may be very hot.
Be careful not to burn yourself.

(G32D)	NGK: BKUR5ETZ-10	
Specification	Gap	1 ± 0.1 mm

DRIVE BELT



Gasoline Engine

You do not need extra tension adjustment, but check belt for wear or tension by pushing the belt and replace if necessary.

Belt replacement: Gasoline Engine

Install a device onto the tension adjuster and rotate clockwise to release the tension and take off the belt.

⚠ WARNING

The engine could inadvertently start while checking the belt and cause moving parts to crush or cut. Remove key from ignition switch.

TRANSFER CASE OIL

Service Interval, Specification and Capacity

Service interval	Inspect every 15,000 km Change every 60,000 km (frequent check of oil leak)		
Specification	ATF DEXRON® III		
Capacity	Direct Injection Diesel Engine, Gasoline Engine	Part time	≈ 1.4 ℓ
		AWD	≈ 1.1 ℓ

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DO-IT-YOURSELF OPERATION

0 When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle.



WARNINGS AND CAUTIONS WHEN PERFORMING DO-IT-YOURSELF OPERATION

WARNING

- Be careful not to touch any hot components such as the engine, radiator, exhaust manifold, catalytic converter, or muffler when the engine is just stopped. They may burn you badly. Let the engine cool down before any service.
- When working with the battery or fuel related components, always stop the engine and do not smoke. Also, remove all flames or sparks near the vehicle.
- Do not connect and disconnect the battery terminals when the ignition key is in the "ON" position.
- The polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged.
- The battery cables and wires transfer high voltage and current. Avoid any short circuit.
- Make sure that the ignition key is "OFF" when performing any work in an enclosed space such as a garage.
- Keep the used oil and coolant out of reach of children. (For a proper disposal of them, contact a professional service.)
- When checking your vehicle, you must turn off the engine first. Then, put the shift lever into the "P" (automatic transmission) or "Neutral" (manual transmission) position and apply the parking brake.
- The electrical cooling fan can start to operate unexpectedly even when the engine is stopped. Disconnect the negative battery cable before you check the radiator, cooling fan or nearby parts.

CAUTION

- Check the level of the engine oil and every fluid including coolant daily. If you drive while the fluid levels are low, your vehicle can be damaged and such damages will not be covered by warranty.
- Use only the genuine Ssangyong oils and fluids.
- Do not allow oils and coolant to make contact with skin or painted surfaces during inspection or refill of them. They can also damage paint finish. If skin contact happens, rinse affected areas immediately with plenty of water and then consult a doctor.
- Do not overfill the oil or coolant, otherwise, the engine and transmission may be damaged. Maintain the specified level.
- The performance of oils and coolant may be deteriorated when they are exposed to dust and moisture. Be careful not to allow contact with dust while refilling.
- In spite of very limited driving of your vehicle, oils and other fluids can disappear over the time. Therefore, check their levels frequently.
- Improperly disposed engine oil and/or other fluids can pollute the environment. Dispose used fluids in accordance with local environmental regulations.

SCHEDULED MAINTENANCE SERVICES (DIESEL ENGINE)

* Use only approved
Ssangyong genuine parts.

Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

MAINTENANCE ITEM	MAINTENANCE INTERVAL	Kilometers (miles) or time in months, whichever comes first								
		x1,000 km	15	30	45	60	75	90	105	120
		x1,000 miles	10	20	30	40	50	60	70	80
		Months	12	24	36	48	60	72	84	96

ENGINE CONTROL SYSTEM

Drive belt			I	I	I	I	I	I	I	I	I	I
* Engine oil & filter (1)* (3)* (4)*			EU	Initial check: 5,000 km, and replenish if necessary, change every 15,000 km or 12 months								
			General	Initial change: 5,000 km, change every 10,000 km or 12 months								
Cooling system hose & connections			I	I	I	I	I	I	I	I	I	I
Engine coolant (3)* (4)*			Change every 60,000 km or 3 years. And, inspect and replenish if necessary.									
* Fuel filter (Diesel Engine)	Direct Injection	EU	I	R*	I	R*	I	R*	I	R*	I	R*
	General	Replace every 25,000 km (Draining water from fuel filter: whenever replacing the engine oil)										
Additional Water Separator (if equipped)			Replace every 150,000 km or 5 years (Drain the water whenever replacing the engine oil)									
Fuel line & connections			I	I	I	I	I	I	I	I	I	I
Air cleaner (2)*			EU	Initial clean: 5,000 km, clean every 15,000 km, replace every 30,000 km (But, shorten the service interval under severe conditions)								
			General	Initial clean: 5,000 km, clean every 10,000 km, replace every 30,000 km (But, shorten the service interval under severe conditions)								
Injection timing (See NOTE1)			I	I	I	I	I	I	I	I	I	I

NOTE 1: Adjust as required; - When excessive smoke is visible (black or white)
- Poor performance/economy

Chart Symbols:

I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.

R - Replace or change.

(1)* If vehicle is operated under severe condition:

- Frequent stop-and-go traffic, extended idling, short driving distance below 6 km, driving distance below 16 km when the outside temperature remains below freezing
- Driving in a hilly or mountainous terrain, sandy, or dusty area
- High load driving such as trailer towing

- Taxi, patrol service or delivery service (extended idling and excessive driving with low speed)

Shorten the service interval. Inspect the engine oil at any time, occasionally, if necessary refill the engine oil.

(2)* If vehicle is operated under severe condition, driving in dusty condition or sandy condition, pollutant area or off-road driving, frequently inspect the air cleaner, if necessary, change the air cleaner.

(3)* More frequent maintenance is required if under dusty driving condition.

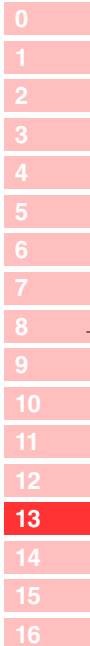
(4)* Refer to "Recommended fluids, coolant and lubricants".

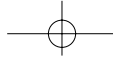
* Water separator: When replace the engine oil, also drain the water from the fuel filter.

KYRON

SERVICE AND MAINTENANCE

13-35





* Use only approved Ssangyong genuine parts.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

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MAINTENANCE ITEM	MAINTENANCE INTERVAL	Kilometers (miles) or time in months, whichever comes first								
		x1,000 km	15	30	45	60	75	90	105	120
		x1,000 miles	10	20	30	40	50	60	70	80
	Months	12	24	36	48	60	72	84	96	

CHASSIS AND BODY

Exhaust pipes & mountings			I	I	I	I	I	I	I	I		
Brake / Clutch fluid (3)*			Change every: 2 years (inspect frequently)									
Parking brake /		EU	Periodic check: every 15,000 km, adjust or replace if necessary.									
Brake pads (Front & Rear) (4)*		General	Periodic check: every 10,000 km, adjust or replace if necessary.									
Brake line & connections (including booster)			Inspect every 15,000 km or 1 years, adjust or replace if necessary									
Manual transmission oil (5)*			I	I	I	R	I	I	I	R		
Clutch & brake pedal free play			I	I	I	I	I	I	I	I		
Front & Rear differential fluid (3)*	Front	Non IOP	Inspect frequently, change every 30,000 km									
		IOP	EU	Periodic check: every 15,000 km, adjust or replace if necessary.								
		General	Periodic check: every 10,000 km, adjust or replace if necessary.									
	Rear	Rigid	Inspect frequently, change every 30,000 km									
		IRS	EU	Periodic check: every 15,000 km, adjust or replace if necessary.								
			General	Periodic check: every 10,000 km, adjust or replace if necessary.								
Transfer case fluid (3)*			Inspect every 15,000 km, change every 60,000 km (Frequent check of oil leak)									
Automatic transmission fluid (6)*			Inspect every 30,000 km or 12 month (But change every 60,000 km under severe condition)									

Chart Symbols:

I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.

R - Replace or change.

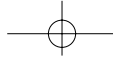
(3)* Refer to "Recommended fluids and lubricants".

(4)* More frequent maintenance is required if the vehicle is operated under any of the following conditions:

- In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
- In hilly or mountainous terrain, or
- When doing frequent trailer towing, or
- Uses such as found in taxi, police or delivery service.

(5)* Inspect manual transmission fluid every 15,000 km (Inspect the leak of fluid at any time, occasionally), then change every 60,000 km

(6)* Change automatic transmission fluid and every 60,000 km if the vehicle is mainly driven under severe conditions: Towing a trailer or off-road driving (Inspect the leak of fluid at any time, occasionally)



* Use only approved Ssangyong genuine parts.

* EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

MAINTENANCE ITEM	MAINTENANCE INTERVAL	Kilometers (miles) or time in months, whichever comes first									
		x1,000 km	15	30	45	60	75	90	105	120	
		x1,000 miles	10	20	30	40	50	60	70	80	
		Months	12	24	36	48	60	72	84	96	

Chassis & underbody bolts & nuts tight / Secure (6)*	Check frequently and adjust or replace if necessary									
Tire condition & inflation pressure	Check frequently and adjust or replace if necessary									
Wheel alignment (7)*	Inspect when abnormal condition is noted									
Steering wheel & linkage										
Power steering fluid & lines (3)*										
Drive shaft boots (8)*										
Seat belts, buckles & anchors										
Lubricate locks, hinges & bonnet latch	Check frequently and adjust or replace if necessary									
Wheel bearing grease										
Propeller shaft grease - Front / Rear (9)*	EU									
	General	Inspect every 10,000 km Change every 10,000 km (But, shorten the service interval under severe conditions)								
Air conditioner filter										

Chart Symbols:

I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.

R - Replace or change.

(3)* Refer to "Recommended fluids and lubricants".

(6)* After completion of off-road operation, the underbody of the vehicle should be thoroughly inspected. Examine threaded fasteners for looseness.

(7)* If necessary, rotate and balance wheels.

(8)* After completion of off-road operation, the drive shaft boots should be inspected.

(9)* Inspect propeller shaft grease every 5,000 km or 3 months if the vehicle is mainly driven under severe condition.

- In off-road or dusty road, or

- In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or

- In hilly or mountainous terrain.

Severe Conditions in Air Conditioner Filter

- Pollutant area or off-road driving, extended air conditioner or heater operation

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SCHEDULED MAINTENANCE SERVICES (GASOLINE ENGINE)

* Use only approved Ssangyong genuine parts.

0 Maintenance service and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance service chart.

1 * EU Countries: Only countries that belong to EU. (It does not apply to all countries in EU.)

MAINTENANCE INTERVAL	Kilometers (miles) or time in months, whichever comes first								
	x1,000 km	15	30	45	60	75	90	105	120
MAINTENANCE ITEM	x1,000 miles	10	20	30	40	50	60	70	80
	Months	12	24	36	48	60	72	84	96

ENGINE CONTROL SYSTEM

Drive belt	I	I	I	I	I	I	I	I	I
Engine oil & engine oil filter (1)* (3)* (Initial change: 10,000 km)	R**	R	R	R	R	R	R	R	R
Cooling system hose & connections	I	I	I	I	I	I	I	I	I
Engine coolant (3)*	Change every 60,000 km or 3 years. And, inspect replenish if necessary.								
Fuel filter (2)*	Replace every 100,000 km (if using poor quality of fuel, replace every 30,000 km)								
Fuel line & connections	I	I	I	I	I	I	I	I	I
Air cleaner (2)*	I	I	I	R	I	I	I	I	R
Ignition timing	I	I	I	I	I	I	I	I	I
Spark plugs	-	-	-	R	-	-	-	-	R
Charcoal canister & vapor lines	-	-	I	-	-	I	-	-	-

Chart Symbols:

I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.

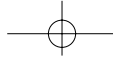
R - Replace or change.

** - In order to secure engine long life and effective break-in, first oil (factory filled) would be recommended to drain with in 10,000 km.

(1)* If vehicle is operated under severe condition: short distance driving, extensive idling or driving in dusty condition, shorten the service interval.

(2)* If vehicle is operated under severe condition, pollutant area or off-road driving, driving in dusty condition or sandy condition, frequently inspect the air cleaner, if necessary, change the air cleaner.

(3)* Refer to "Recommended fluids and lubricants".



* Use only approved Ssangyong genuine parts.

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MAINTENANCE INTERVAL MAINTENANCE ITEM	Kilometers (miles) or time in months, whichever comes first								
	x1,000 km	15	30	45	60	75	90	105	120
	x1,000 miles	10	20	30	40	50	60	70	80
	Months	12	24	36	48	60	72	84	96

CHASSIS AND BODY

Exhaust pipes & mountings	I	I	I	I	I	I	I	I	I
Brake / Clutch fluid (3)*	Change every: 2 years (inspect frequently)								
Parking brake /	EU	Periodic check: every 15,000 km, adjust or replace as necessary.							
Brake pads (Front & Rear) (4)*	General	Periodic check: every 10,000 km, adjust or replace as necessary.							
Brake line & connections (including booster)	Inspect every 15,000 km or 1 years, adjust or replace if necessary								
Manual transmission oil (5)*	I	I	I	R	I	I	I	I	R
Clutch & brake pedal free play	I	I	I	I	I	I	I	I	I
Front & Rear differential fluid (3)*	Front	EU	Periodic check: every 15,000 km, adjust or replace if necessary.						
		General	Periodic check: every 10,000 km, adjust or replace if necessary.						
	Rear	EU	Periodic check: every 15,000 km, adjust or replace if necessary.						
		General	Periodic check: every 10,000 km, adjust or replace if necessary.						
Transfer case fluid (3)*	Inspect every 15,000 km, change every 60,000 km (Frequent check of oil leak)								
Automatic transmission fluid (6)*	Inspect every 30,000 km or 12 month (But change every 60,000 km under severe condition)								

Chart Symbols:

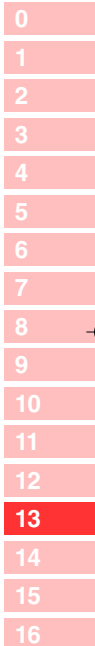
I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
R - Replace or change.

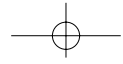
(3)* Refer to "Recommended fluids and lubricants".

(4)* More frequent maintenance is required if the vehicle is operated under any of the following conditions:
- In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
- In hilly or mountainous terrain, or
- When doing frequent trailer towing, or
- Uses such as found in taxi, police or delivery service.

(5)* Inspect manual transmission fluid every 15,000 km (Inspect the leak of fluid at any time, occasionally), then change every 60,000 km

(6)* Change automatic transmission fluid and every 60,000 km if the vehicle is mainly driven under severe conditions. (Inspect the leak of fluid at any time, occasionally)





* Use only approved Ssangyong genuine parts.

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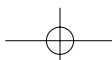
MAINTENANCE INTERVAL ITEM	MAINTENANCE INTERVAL	Kilometers (miles) or time in months, whichever comes first								
		x1,000 km	15	30	45	60	75	90	105	120
		x1,000 miles	10	20	30	40	50	60	70	80
	Months	12	24	36	48	60	72	84	96	

CHASSIS AND BODY

Chassis & underbody bolts & nuts tight / Secure (6)*	Check frequently and adjust or replace if necessary								
Tire condition & inflation pressure	Check frequently and adjust or replace if necessary								
Wheel alignment (7)*	Inspect when abnormal condition is noted								
Steering wheel & linkage	I	I	I	I	I	I	I	I	I
Power steering fluid & lines (3)*	I	I	I	I	I	I	I	I	I
Drive shaft boots	I	I	I	I	I	I	I	I	I
Seat belts, buckles & anchors	I	I	I	I	I	I	I	I	I
Lubricate locks, hinges & bonnet latch	Check frequently and adjust or replace if necessary								
Wheel bearing grease	I	I	I	I	I	I	I	I	I
Propeller shaft grease - Front / Rear (8)*	EU	I	I	I	I	I	I	I	I
	General	Inspect every 10,000 km Change every 10,000 km (But, shorten the service interval under severe conditions)							
Air conditioner filter	Inspect every 10,000 km Change every 10,000 km (But, shorten the service interval under severe conditions)								

Chart Symbols:

- I - Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
 - R - Replace or change.
 - (3)* Refer to "Recommended fluids and lubricants".
 - (6)* After completion of off-road operation, the underbody of the vehicle should be thoroughly inspected. Examine threaded fasteners for looseness.
 - (7)* If necessary, rotate and balance wheels.
 - (8)* Inspect propeller shaft grease every 5,000 km or 3 months if the vehicle is mainly driven under severe condition.
 - In off-road or dusty road, or
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain.
- Severe Conditions in Air Conditioner Filter
- Pollutant area or off-road driving, extended air conditioner or heater operation



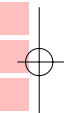
Lamp

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BULB SPECIFICATIONS AND FUNCTIONAL CHECK

BULB SPECIFICATIONS

Description		Amount	Specification (EU)	Specification (General)
Exterior lamp	Headlamp	High beam	2	55W ←
		Low beam	2	55W ←
		Turnsignal lamp	2	P21W 28W
		Position lamp	2	W5W 8W
	Front fog light	2	H27W/2 ←	
	Side repeater	2	W5W 5W	
	Rear combination lamp	Stop (tail) lamp	4	P21W(5W) 27W(8W)
		Turnsignal lamp	2	PY21W 27W
	Back-up lamp	EU	1	16W -
		General	2	- 16W
Rear fog light	1	P21W -		
License plate lamp	2	W5W 5W		
High mounted stop lamp	LED type	-	- LED type	
	Bulb type	5	W5W 5W	
Interior lamp	Front room lamp	2	10W ←	
	Glove box lamp	1	10W ←	
	Center room lamp	1	10W ←	
	Luggage lamp	1	10W ←	
	Door courtesy lamp	2	5W ←	

FUNCTIONAL CHECK

1. Check whether the lamp comes on or off by turning its switch.
2. Check the corresponding fuse when the lamp doesn't come on.
3. If the fuse is blown, replace it with a new one.
For replacing procedures, refer to the "In Case of Emergency" section in this manual.
4. If the fuse is not blown, check the bulb and replace it with a new one if needed.
5. If the bulb is not defective, have the system checked by a Ssangyong Dealer or Ssangyong Authorized Service Center.

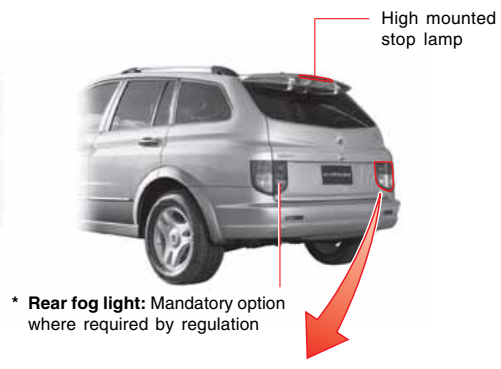
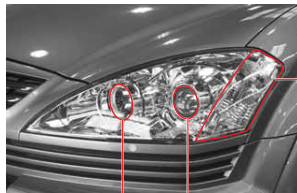
CAUTION

- Use only a specified capacity bulb for replacement.
- Disconnect the negative cable on the battery before replacing the bulb. Remove the ignition key.
- Do not apply excessive force to remove the bulb cover.
- Make sure that the corresponding switch and the ignition switch are turned off before replacing a bulb.
- Do not touch a bulb with bare hands immediately after turning off the lamp.
- Do not touch a bulb with bare hands. Fingerprints, dust, or moisture stuck to the bulb may shorten its life or cause it to explode. If you accidentally touch the bulb, wipe the bulb glass with a soft cloth.
- Never try to adjust the headlamp aiming angle. It should be done by a qualified technician in a Ssangyong Dealer or Ssangyong Authorized Service Center.

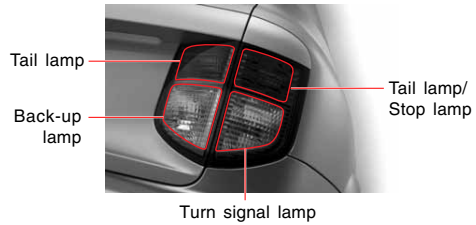
LOCATION OF EXTERIOR LAMPS



Headlamp



Rear Combination Lamp

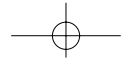


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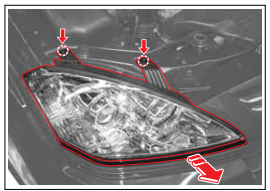
LAMP

14-3

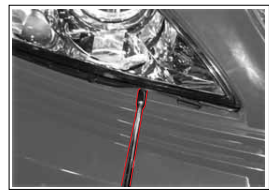


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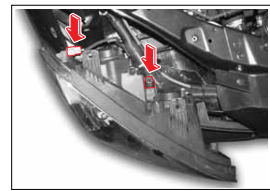
REMOVING HEADLAMP HOUSING



1. Disconnect the negative cable on the battery.
 2. Unscrew the two bolts and carefully remove the lower headlamp cover.

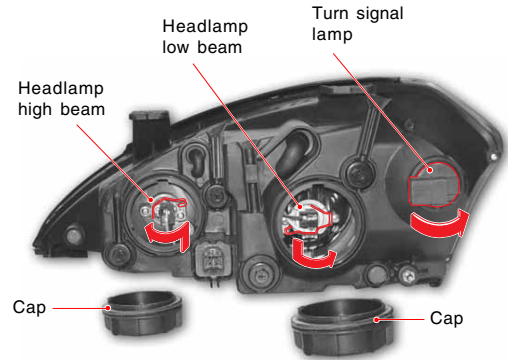


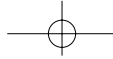
3. Unscrew the bolt at the bottom of the headlamp.



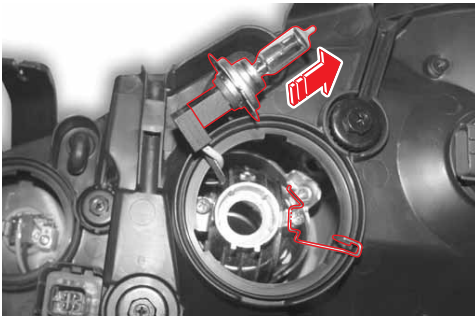
4. Disconnect the two headlamp connectors and remove the headlamp housing.

WARNING
 For safe driving, do not adjust the headlamp aiming by yourself. It should be done by a qualified technician in a Ssangyong Dealer or Ssangyong Authorized Service Center.



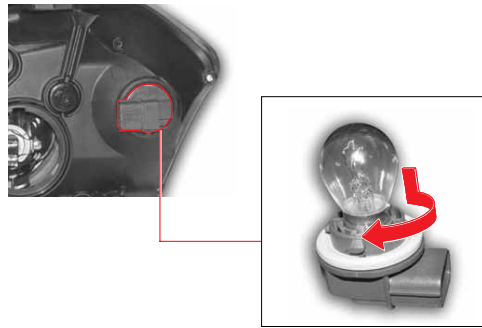


HEADLAMP



1. Remove the headlamp cover from the removed headlamp housing.
2. Release the fixing clip.
3. Replace the bulb with a new one.
4. Install in the reverse order of removal.

TURN SIGNAL LAMP



1. Remove the turn signal lamp connector from the removed headlamp housing.
2. Push down and turn the bulb to remove.
3. Replace the burnt bulb with a new one.
4. Install in the reverse order of removal.

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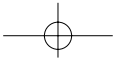
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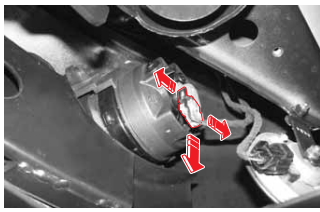
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FRONT FOG LIGHT



1. Remove the ignition key from the key cylinder.
2. Remove the front fog light connector by pushing both locks in the direction of the arrows.

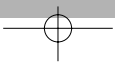
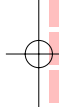
CAUTION
 Because the front fog lights can be accessed only from the bottom of the vehicle, it should be done by a Ssangyong dealer or authorized service center.



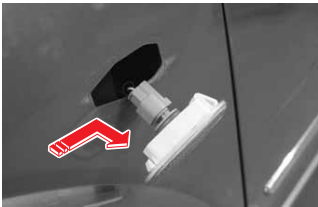
3. Turn the bulb to remove it.
4. Replace it with a new one.
5. Install in the reverse order of removal.



Front fog light Front fog light



SIDE REPEATER

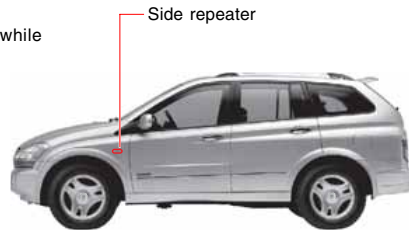


1. Remove the ignition key from the key cylinder.

2. Pull the lamp housing out while pushing it rearward.

3. Disconnect the connector.

4. Remove the bulb housing.

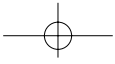


5. Remove the bulb from the housing.

6. Replace it with a new one.

7. Install in the reverse order of removal.

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0 REAR COMBINATION LAMP

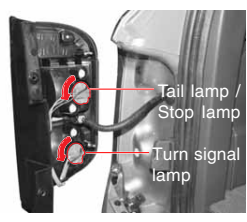
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1. Remove the ignition key from the key cylinder.
2. Disconnect the two mounting bolts from the rear combination lamp.



Rear combination lamp

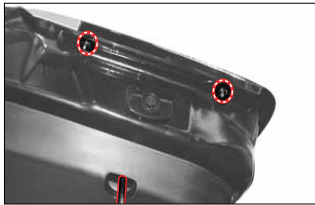


3. Remove the rear combination lamp from the body.
4. Turn the bulb housing to remove.

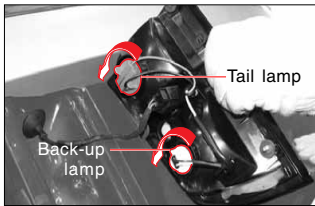


5. Remove the bulb while pushing and turning it.
6. Replace it with a new one.
7. Install in the reverse order of removal.

TAILGATE COMBINATION LAMP



1. Remove the ignition key from the key cylinder.
2. Remove the bolt cover on the tailgate and remove the three bolts.



3. Remove the rear combination lamp housing while pushing it rearward.
4. Turn the bulb housing to remove it.



Tailgate combination lamp

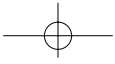
5. Remove the bulb while pushing and turning it.
6. Remove the back-up lamp bulb.
7. Replace it with a new one.
8. Install in the reverse order of removal.

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KYRON

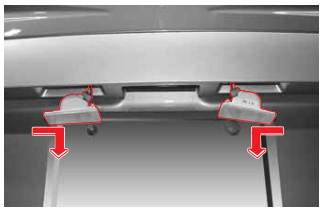
LAMP

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LICENSE PLATE LAMP



1. Remove the ignition key from the key cylinder.
2. To take out the license plate light assembly, remove the two fastening screws on the license plate light and push the assembly downward.
3. Remove the lamp housing by turning the connector.



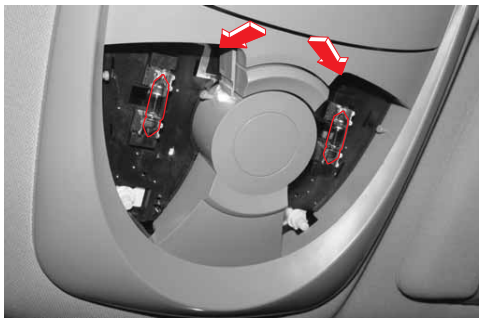
License plate lamp



4. Remove the bulb.
5. Replace it with a new one.
6. Install in the reverse order of removal.

INTERIOR LAMPS

FRONT ROOM LAMP

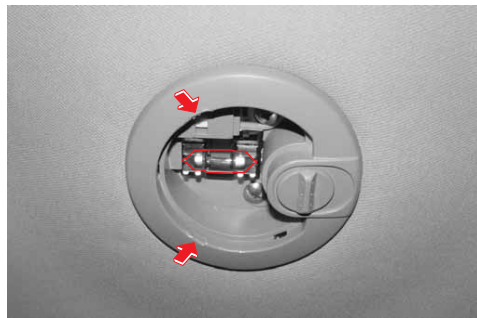


1. Remove the ignition key from the key cylinder.
2. Cover the tip of a flat blade screwdriver with a cloth and insert the tip into a lamp cover slot. Then, pry off the cover.
3. Replace the bulb with a new one.
4. Install the cover.

CAUTION

The cover should be pried up from the rear section (indicated by the arrow). Otherwise, the cover may be damaged.

CENTER ROOM AND LUGGAGE ROOM LAMPS



1. Remove the ignition key from the key cylinder.
2. Cover the tip of a flat blade screwdriver with a cloth and insert the tip into a lamp cover slot. Then, pry off the cover.
3. Replace the bulb with a new one.
4. Install the cover.

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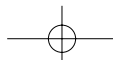
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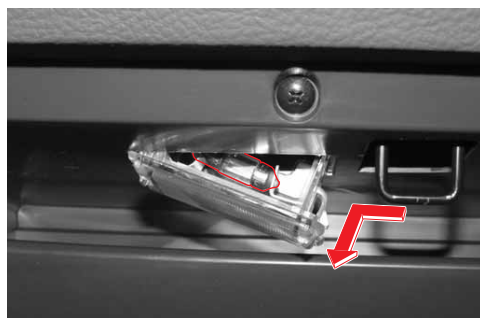
LAMP

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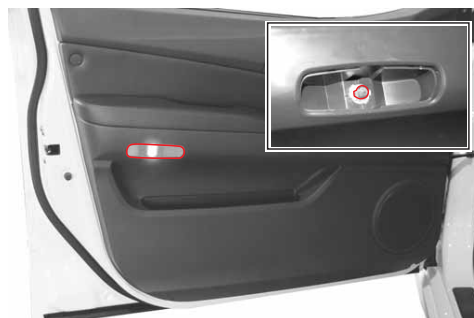
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GLOVE BOX LAMP

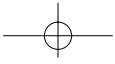


1. Remove the ignition key from the key cylinder.
2. Open the cover as shown in the figure.
3. Replace the bulb with a new one.
4. Install in the reverse order of removal.

DOOR COURTESY LAMP



1. Remove the ignition key from the key cylinder.
2. Cover the tip of a flat blade screwdriver with a cloth and insert the tip into a lamp cover slot. Then, pry off the cover.
3. Replace the bulb with a new one.
4. Install the cover.



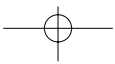
Vehicle Care

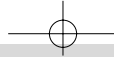
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VEHICLE CARE

0 RUNNING-IN PERIOD

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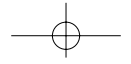
10 There are no particular running-in rules for your new vehicle. However, following a few simple precautions for the first 1,000 km can add to good future performance, fuel economy and long life of your vehicle.

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- 13 • Allow the engine to warm up after starting.
- 14 • Avoid harsh operations such as abrupt fast starts, sudden acceleration and prolonged high speed driving.
- 15 • Do not race the engine.
- 16 • Drive at varying speeds, trying not to "strain" the engine.
- Avoid overload when climbing.



CLEANING AGENTS

Follow the manufacturer's advice whenever cleaning agents or other chemicals are used for the inside or the outside of the vehicle. Some cleaners may be poisonous or flammable, and improper use may cause personal injury or damage. When cleaning the inside or outside of the vehicle, do not use volatile cleaning solvents such as: acetone, lacquer thinners, enamel reducers, nail polish removers; or cleaning materials such as laundry soaps, bleaches or reducing agents, except as noted in the fabric cleaning advice on stain removal. Never use carbon tetrachloride, petrol, benzene, or naphtha for any cleaning purpose. Open all vehicle doors for ventilation when any cleaning agents or other chemicals are used in the interior. Overexposure to some vapors may result in a health problem which is more likely to occur in small, unventilated spaces. To avoid possible permanent discoloration of light colored seats, do not let materials with non-fast colors come in contact with seat trim materials until these materials are totally dry. This includes certain types of casual clothing, such as colored denims, corduroys, leathers and suedes; also, decorative paper, etc.



CARE AND CLEANING OF THE INTERIOR



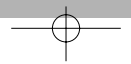
With the use of modern trim materials, it is very important that you use proper cleaning techniques and cleaners. Failing to do this on the first cleaning may result in water spots, spot rings, or setting of stains or soils. All of which are more difficult to remove in a second cleaning.

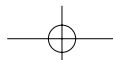
Dust and loose dirt that are accumulated on interior fabrics should be frequently removed with a vacuum cleaner or soft bristle brush. Wipe vinyl or leather trim regularly with a clean damp cloth. Normal trim soils, spots or stains can be cleaned with cleaners.

Seat Belt Care

- Keep belts clean and dry.
- Clean seat belts only with mild soap and lukewarm water.
- Do not bleach or dye belts since this may severely weaken them.

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GLASS SURFACES

Glass surfaces should be cleaned on a regular basis. The use of a glass cleaner or a liquid household glass cleaner will remove normal tobacco smoke and dust films.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches. If abrasive cleaners are used on the inside of the rear window, any electric demister element may be damaged. Avoid placing decals on the inside rear window, since they may have to be scraped off later.

Cleaning the Outside of the Windshield

If your windshield is not clear after using the windshield washer, or if the wiper blade chatters when running, wax or another material may be on the blade or windshield, clean the outside of the windshield with cleaning powder or an equivalent non abrasive cleaner. Your windshield is clean if beads do not form when rinsing with water.

CARE AND CLEANING OF THE EXTERIOR

Exterior Finish

The paint finish on your vehicle provides beauty, depth of color, gloss retention, and durability.

Washing your Vehicle

The best way to preserve your vehicle's finish is to keep it clean by frequent washing.

Wash the vehicle with lukewarm or cold water.

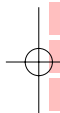
Do not use hot water or wash your vehicle under direct sunlight. Do not use a strong soap or chemical detergent.

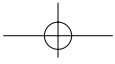
All cleaning agents should be washed promptly from the surface and not allowed to dry on the finish.

Ssangyong vehicles are designed to operate under normal environmental conditions and to withstand the natural elements. However, unusual conditions, such as high pressure car washers, may cause water to enter the inside of your vehicle.

Polishing and Waxing

Periodic polishing and waxing is recommended to remove surface residue from your paint finish. Approved products are supplied through your Ssangyong Distributor.





Protecting Exterior Bright Metal Parts

Bright metal parts should be cleaned regularly to keep their luster.

Special care should be taken when cleaning the aluminum trim. To avoid damaging the protective trim, never use automotive or chrome polish, steam, or caustic soap to clean the aluminum trim. A coating of wax is recommended for all bright metal parts.



Cleaning Aluminum Wheels, Alloy Wheels, and Wheel Covers

Preserve the original appearance of wheels or wheel covers by keeping them clean and free from build-up of road dirt and/or road salt. Wash the parts regularly. Do not use abrasive cleaners or cleaning brushes, as they could damage the finish.

CORROSION PROTECTION

Your car was designed to resist corrosion. When it was built, special and protective finishes were used on most parts of your car to help maintain a good appearance, strength and reliable operation. Some parts which normally are not visible (such as certain parts located in the engine compartment and the underbody of the vehicle) are such that surface rust will not affect their reliability. Therefore, corrosion protection is not needed or used on these parts.

Sheet Metal Damage

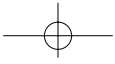
If your car is damaged and requires body panel repair or replacement, make sure the body repair shop applies proper anticorrosion material to the parts repaired or replaced so that corrosion protection is restored. (Also refer to "Finish Damage" on the next page).

Foreign Material Deposits

Calcium chloride and other salts, deicing agents, road oil and tar, tree sap, bird droppings, chemicals from industrial chimneys and other foreign materials may damage vehicle finishes if left on painted surface. Prompt washing may not completely remove all of these deposits. Other cleaners may be needed. When using chemical cleaners, be sure they are safe for use on painted surfaces.

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Finish Damage

Any stone chips, fractures or deep scratches in the finish should be repaired promptly. Bare metal will corrode quickly and may develop into a major repair expense. Minor chips and scratches can be repaired with touch-up materials. Larger areas of finish damage can be corrected in your Distributor's body and paint shop.

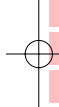
Underbody Maintenance

Corrosive materials used for ice and snow removal and dust control can accumulate on the underbody. If these materials are not removed, accelerated corrosion (rust) can occur on underbody parts such as the fuel lines, frame, floor pan, and the exhaust system even though they have been provided with corrosion protection. At least every spring, flush these materials from the underbody with plain water. Take care to clean any area where mud and other debris can accumulate.

Sediment packed in closed areas of the frame should be loosened before being flushed. If desired, your Ssangyong Distributor can do this service for you.

CAUTION

- When the engine is washed, fuel, grease or oil residues are washed off. Therefore you should use only a filling station or a Ssangyong Distributor who has oil separator equipment in the car wash bay.
- Used engine oil, brake fluid, transmission fluid, antifreeze, batteries, and tires should be disposed by using the local authorized waste disposal facilities, or have them disposed of by the vendor who is under a statutory obligation to do so when you replace them.
- None of these items should be placed in the household recycling bins or poured into the sewage system.
- Everyone should be concerned about environmental protection.
- Help by doing your share.



IMPORTANT SAFETY INSTRUCTIONS

BEFORE DRIVING

For safe and comfortable driving, check each part of the vehicle before driving your vehicle.

CAUTION

To inspect your vehicle effectively, park it on a level surface and check it in the following order.

Checking Problematic Parts

Check those parts that you felt they were problematic to see if they would be a hindrance on the road.

Checking the External Appearance of Your Vehicle

- Check for flat tires and check the air pressure.
- Check the side mirrors and the license plate for dirt or damage.
- Check all lights for damage or dirt.
- Check for oil stains under a parked car.

Checking the Driving Conditions:

- Adjustment of the rearview mirror
- Applying the brake and releasing the parking brake
- All warning lights and indicator lights
- All lighting devices
- The adjustment of driver's seat
- Make sure that headlights, tail lights, rear lights, license plate lights, backup lights, directional signals, and stop lights work properly.

CAUTION

When checking the lights, look for the reflections on walls and in the mirrors, or get someone to help you.

Checking Engine Compartment

Check the following:

- Engine oil
- Power steering fluid
- Brake fluid
- Cooling system
- Drive belt

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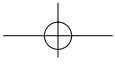
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KYRON

VEHICLE CARE

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Always Using Seat belt

Everyone in your vehicle needs to be buckled up at all times.

WARNING

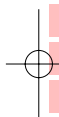
- Children, pregnant or nursing women who fail to fasten their seat belts properly might suffer from an accident. Always use seat belts as directed.
- Please carefully read the seats, seat belts and air bags sections.

Do Not Leave a Child Alone in the Vehicle

When left alone in the car, a child might unintentionally start the engine, cause a fire, or cause another accident.

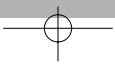
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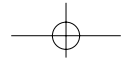
- During the summer, the temperature in your vehicle rises due to direct sunlight, and a child who is unable to adjust vehicle devices is in danger of suffocation.
- Do not leave a child alone in the car.



Taking Care of Children

- ▶ **Children should sit in the rear seat**
To prevent children from interfering with your driving by accidental movements or misusing of devices, children should sit in the rear seat.
- ▶ **Do not allow children to adjust comport and safety devices**
When a child gets in the vehicle, an adult should take care of doors, windows, seat belts, or seats making sure not to hurt the child's hands, feet or neck.





ON THE ROAD

If a Problem Occurs On the Road

- If a warning light comes on, immediately stop the vehicle in a safe place and take emergency measures.
- If your vehicle suffered a serious blow to the bottom, immediately stop the vehicle in a safe place and check for a fuel leak, brake fluid spill, or others and for damages to the underbody of your vehicle.
- If you have a sudden puncture or blowout on the road, keep your composure, grip the steering wheel firmly, brake gently to reduce your speed, and then stop in a safe place.

⚠ WARNING

If the front axle and tires were severely hit on the road and you notice steering problems (steering wheel shakes up and down / right and left / in circular motion), immediately visit the nearest Ssangyong Dealer or Ssangyong Authorized Service Center to check and repair steering and suspension parts.

Avoiding Unnecessary Movements While Driving

- While driving, do not turn off the ignition key under any circumstances. Brakes and power steering will not work.
- While driving, do not put your hands through the steering wheel to manipulate various switches. It might interfere with operating the steering wheel and cause an accident.

Parking in a Safe Place

Do not park in places where hay, foliage, paper, rags, oil, or other easily inflammable materials are kept.

⚠ CAUTION

While driving or after immediately driving, the muffler and exhaust pipe are hot; inflammable materials near the vehicle might cause a fire.

Turning The Engine Off When Taking A Nap

You might cause an accident by unconsciously shifting the transmission or stepping on the accelerator pedal, so turn the engine off.

⚠ CAUTION

Repeated application of the accelerator pedal overheats the engine and exhaust pipe and might cause a fire.

Turning The Engine Off When Leaving Your Car

- Turn the engine off and lock the doors.
- Do not leave valuables inside the car. Do not leave a child alone in the vehicle.

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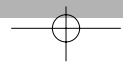
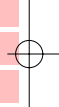
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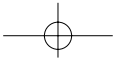
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Moving Your Vehicle Only After Starting the Engine

Move your vehicle only after having started the engine.

WARNING
Driving the vehicle on a downhill using the downgrade slope without running the engine might cause an accident.

Parking Downhill

After firmly applying the park brake, set the gearshift lever in Reverse for vehicles with the manual transmission or set the gearshift lever in **P** for vehicles with the automatic transmission.

CAUTION
Place wheel chocks under the wheels.

Parking Uphill

After firmly applying the park brake, set the gearshift lever in first gear for vehicles with the manual transmission or set the gearshift lever in **P** for vehicles with the automatic transmission.

CAUTION
Place wheel chocks under the wheels.

When Parking or Stopping in An Enclosed Place

When parking or stopping in an enclosed place, turn off the engine.

WARNING
Leaving the engine running in an enclosed place, in a garage or indoors or in other areas with no air ventilation, might result in death from carbon monoxide poisoning.

Things To Watch For When Reversing

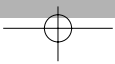
When reversing your vehicle, always make sure that there are no children or other obstacles behind the vehicle.

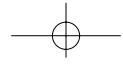
Driving in the Rain

When it is raining, the road surface becomes slippery and your tire-to-road traction is reduced, so you should drive more carefully than usual.

CAUTION
If you travel at a high speed on a wet road, your tires might not be in constant contact with the road; if your tires float, your vehicle starts hydroplaning. You might lose control of your steering and brakes.

After driving through a puddle of water, or after a car wash, apply your brake pedal lightly several times while moving slowly to confirm that your brakes work normally before getting on the road.





Putting Away Things That Interfere With Driving

WARNING

- Do not leave inflammable materials, such as disposable lighters or sprays, inside the vehicle. They might cause a fire or an explosion.
- Do not place objects under the driver's feet or cover the car bottom with a very thick carpet as it might interfere with applying your brake, clutch or accelerator pedals.

Using Engine Brakes On Long Downgrades

If you repeatedly apply the brake pedal, the brakes overheat and the braking effectiveness can deteriorate. When on a long downgrade, shift to a low gear and apply your brake pedal together with the engine brake.

NOTE

The engine brake slows down your vehicle while the accelerator pedal is not applied; down-shifting increases the effectiveness of this retarding force.

Always Putting Out Cigarettes

- Make sure you have put out all cigarettes and matches completely before throwing them into your ashtray.
- Do not put many cigarette butts or materials that easily catch fire into your ashtray.

CAUTION

For safer driving, refrain from smoking while on the road.

Being Careful With Accessories

Do not attach accessories or other unnecessary things to your car's windows as they might interfere with your driving. Attached accessories can work as a convex lens and cause a fire or cause an accident.

Being Careful While Checking Your Coolant

When the engine is hot, never open the cap of the coolant tank.

Hot steam or liquid might surge upwards and cause burns to your face or body.

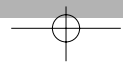
Always Using Ssangyong Genuine Parts

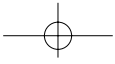
- You can maintain the safety and performance of your car by using only specified parts or Ssangyong genuine parts.
- You can distinguish specified parts by their part numbers and seal.

CAUTION

- The warranty does not cover problems caused by using non-Ssangyong genuine parts.
- You can distinguish an authentic Ssangyong genuine part by its hologram.

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Driving on a Snowy or Icy Road

- Shift to the lowest possible gear and drive slowly.
- Since your braking distance is longer than usual, allow a longer following distance.
- If you accelerate or brake too fast, your vehicle will slide and you might get in an accident, so drive with caution. When braking, use the engine brake; apply your brakes only after you have slowed down considerably.
- When going down a slippery downhill, use the engine brake and drive slowly.

CAUTION
When traveling on a snowy or icy road, use snow tires for safer driving.

Driving on a Sandy or Muddy Road

- Keep your speed steady as low as possible.
- While driving, be careful not to accelerate or stop too quickly because you might get stuck in sand or mud.
- If your vehicle gets stuck in sand or mud, insert a rock or a piece of wood under the stuck wheel, lightly apply the accelerator pedal and gently shift back and forth between the reverse and forward gear to allow inertia to get your vehicle out.

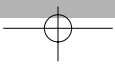
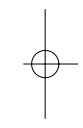
CAUTION
If your vehicle is stuck in snow, sand or mud and you cannot get out, do not repeatedly depress the accelerator pedal. If possible, with the aid of other vehicle, rescue your vehicle.

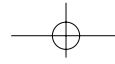
Driving on Unpaved and Mountain Roads

- Before driving, check road conditions such as if the road suddenly ends, or if there is enough space for a U-turn in the middle of the road.
- It's easy to slide in a road covered with much sand or with much dry dirt. Keep your speed low and steady.
- There is a danger of driving off the mountain road, so stay alert.
- When coasting downhill, do not change gears; go down slowly by applying the engine brake.

Going Through Water

- If water gets into the electric system or engine, it might cause irreparable damage to your vehicle. Please refrain from underwater driving.
- If going through water is unavoidable, choose a shallow spot where the exhaust outlet wouldn't get submerged in water and proceed slowly at a steady speed.
- Before going through water, get out of your vehicle and check the bottom of the river. Do not go through water if the bottom is sandy or covered with big rocks.
- If several vehicles are going through water together, the first vehicle might burrow into the bottom, so be careful and cross in a different place if possible.





► Important things to remember when going through water

- If the engine stops while you are going through water, do not try to restart. Get your vehicle towed.
- Be particularly careful not to allow water to enter into the engine through the air cleaner.
- Never change speeds while going through water.

⚠ WARNING

If water gets into the brake system, the effectiveness of the brakes decreases. After going through water, move slowly and gently applying the brakes several times so that frictional heat dries the brake pads and disks. Check if the brakes work properly before continuing driving.

► Checking your vehicle after going through water

- Check the front, rear, right and left sides, transmission, axle hubs, propeller shaft, oil and fluid levels, and underbody; if you discover problems, get your vehicle checked immediately.
- Check all lamps and other electrical devices. If necessary, replace damaged components and get your vehicle checked.
- Check for damages to the vehicle body and underbody; if you discover problems, get your vehicle checked immediately.
- If the vehicle body is very dirty, wash your car to protect it.

Driving On Hill Roads

Position the gearshift lever in accordance with the road conditions.

⚠ WARNING

If you suddenly use the engine brake on an icy or slippery road, the vehicle might slide and get in an accident. Use the engine brakes after fully reducing your vehicle speed.

- On a steep downgrade, shift to the lowest gear to get the biggest effect of the engine brake.

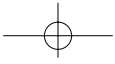
⚠ WARNING

If you repeatedly apply your brakes on a long downgrade, they may overheat, their effectiveness decreases and an accident might occur. When on a long downgrade, use the engine brake together with your brakes.

⚠ CAUTION

If you suddenly apply the engine brake while traveling at a high speed, the engine may get damaged. Slow down the vehicle speed and then downshift the gear.





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Freeway Driving

- Before getting on a freeway, listen to the weather forecast, prepare thoroughly and check the fuel level, brake system, cooling system, and tires.
- Always respect the speed limit and refrain from speeding.
- Allow for a safe following distance, avoid sudden steering movements.
- When it rains or snows and the weather conditions are adverse, double the distance between your vehicle and the vehicle running in front of you. And reduce your speed by half.

CAUTION

Do not idle the engine for a long time; it wastes fuel and causes environmental pollution.

- Drive at a slow speed for the first 2 km if possible.
- Do not load your vehicle with unnecessary stuff.
- Refrain from quick accelerating and abrupt braking, travel at a steady speed.
- When you park or stop for a long time, turn the engine off.
- Keep tires at the recommended pressure.
- Keep your vehicle in the best possible condition by periodically checking it and perform maintenance.

PROHIBITION OF UNAUTHORIZED MODIFICATIONS

This vehicle contains various advanced electronic and control devices. Do not modify them without authorization.

Modification of Fuses and Circuits

Always use the Ssangyong genuine fuses of the specified capacity and do not alter or modify your vehicle's circuits. It might cause a fire.

Prohibition of Window Tinting

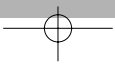
Modification such as coloring windows might cause leaks. Tinting all the windows in a vehicle with a navigation system might weaken the satellite signal and make it impossible to display the vehicle's current location.

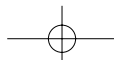
Using Non-Specified Tires and Wheels

If using non-specified parts, the steering wheel feels heavier, fuel consumption increases, brake performance decreases and the steering wheel might shake, wearing out tires when you are traveling at a high speed.

Performing Regular Checks

Always check your vehicle as specified in the inspection schedule, replace parts when necessary and record in your vehicle diary which parts were replaced.

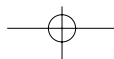
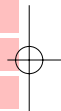
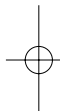


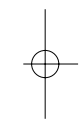
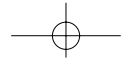


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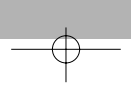
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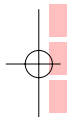
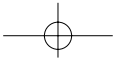
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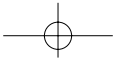
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KYRON (LHD) OWNER'S MANUAL

ISSUED BY
OVERSEAS A/S TEAM
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