

Foreword

Congratulations on your purchase of a Haima SUV (Sport Utility Vehicle). It will be your best choice.

This manual details the construction features, usage, maintenance specification, etc. of the Haima SUV. By reading carefully the manual, you will reasonably use and maintain your car, and ensure your safety, enjoy more comfortable driving experience.

The information contained in this manual applies to the HAIMA7 series SUV.

As various models are of different styles and configurations, these introduced devices, facilities or functions are not simultaneously embodied on one model on the same time. The parts other than the standard configuration are marked with the word "optional"; a few of configurations is concise as necessary and interpreted in another monograph.

For the usage discontinued or technical specifications changed due to continuous optimization and upgrading of the product, FAW Haima Automobile Co., Ltd. reserves the right for the unavailability of pre-notification and beg here for customers' understanding.

Haima Automobile Sales Service Shop staff has received good professional training and are able to provide you with the best advice, maintenance and services.

























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May, 2012

Graphic Symbols

Part of the general symbols in the following table is used on your vehicle to display warning and induction signals:

							
Master lighting switch	High-beam indicator light	Low-beam indicator light	Position light indicator light	Front fog light indicator light	Rear fog light indicator light	Turn signal indicator light	Hazard warning light
							
Horn	Front windshield wiper	Front windshield wiper and washer	Rear windshield wiper	Rear windshield washer	Rear windshield wiper and washer	Brake system warning light	Fan
							
Charging system warning light	Engine coolant temperature indicator	Low fuel warning light	Front windshield defrost and demist	Rear windshield defrosts and demist	Seat belt warning light	Air bag warning light	Cigarette lighter

							
Burglar alarm light	Hood release mechanism	Door ajar warning light	Engine oil pressure indicator	ABS warning light	Check engine light	Check emissions light	Recalculated air mode
							
Outside air mode	Dashboard vent	Dashboard/floor vent	Floor vent	Floor/defroster vents	Headlight leveling mechanism	Constant Speed Cruise Indicator Lamd	ESP Multi-function Warning lamp
							
ESP OFF Warning lamp	ESP OFF Switch						



Haima 7 series passenger cars only allow for the use of unleaded gasoline of octane #93 or above (Research Approach). The leaded gasoline is prohibited.

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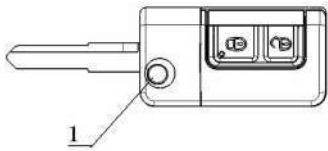
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Car Security Systems Unlock and lock systems Keys and keyless entry system transmitter

Each passenger car is equipped with a combination of the key and transmitter as shown in the figure.

The key applies to all locks on your vehicle, including:

- Ignition lock
- Door locks
- Glove box lock



 Key code number plate

When getting your car key, you will receive a key code number plate which is the DNA of this key. When you need to make a new key, this key code number is required. Ordinarily, you need to keep the code number plate in a safe place. Also write down the code number on the plate and keep it safe in a handy place, but not in your vehicle.

When you need to make a key, please contact a Haima Automobile Sales Service Shop with the key code number plate ready.

If using the key to unlock, lock or start your car, you must open it. To open the key, simply press the button ①. By pressing and holding this button

you can also fold the key manually.

The transmitter can unlock/lock all locks on your vehicle.

Tip

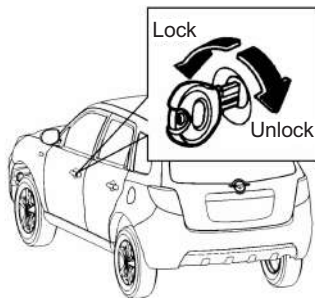
Please keep your car key and key code number plate safe.

Usage of keys

The left front door can be unlocked or locked using the key from outside the vehicle.

None of the other doors can be unlocked or locked using the key from outside the vehicle.

You can unlock the left front door by turning the key clockwise and lock it by turning the key counterclockwise.



Door unlocking and locking

The driver side door can be locked using the key from outside the vehicle. When you lock the driver side door using the key, the system will lock all doors automatically. When you unlock the driver side door using the key, all doors can be opened.

There is a door lock button on each of inner handles of front and rear doors. Press the rear end of the driver side door lock button until flush, all doors will lock; press the front end of the button, all doors will unlock. The door lock buttons on passenger side doors can control respective doors only.



LOCK position



UNLOCK position

Caution

In an emergency, the driver can open the driver side door by pulling the inner handle directly whether the driver side door lock button is in the lock position or not.

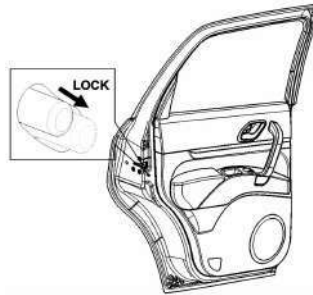
Rear door child safety locks

These locks are intended to prevent children on rear seats from accidentally opening the rear doors. Use them when a child occupant sits in a rear seat.

If you turn the child safety lock to the "LOCK" position in the direction as indicated, the door can not be opened from inside the vehicle whichever position the door lock button is in. The door can be opened only by using the outside handle from outside the vehicle.

Tip

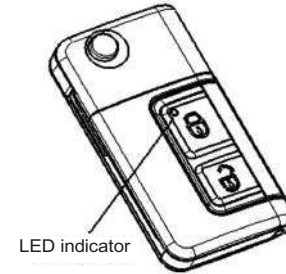
When the child safety lock is in the "LOCK" position, please do not pull the inner handle hard so as to avoid damage to it.



Caution


Opening any door while your vehicle is moving is extremely dangerous. If a child occupant sits in a rear seat, please be sure to use the child safety locks.

Use of remote controller




Please press slowly and accurately the button when using the remote controller.

Remote-controlled locking

When the  key on the transmitter is depressed, the turn light will flash once, the rear interior lights (switch in the DOOR position) will illuminate for 3 seconds and go out, and both the front and rear doors


and the liftgate will lock.

Remote-controlled unlocking

When the  key on the transmitter is depressed, the turn light will flash twice, the rear interior lights (switch in the DOOR position) will illuminate for 15 seconds and go out, and both the front and rear doors and the liftgate will unlock.



Failure of remote-controlled unlocking

When any door or the liftgate is not properly closed, the turn light will flash once, all doors will lock and immediately unlock, at the same time, the electric horn of your vehicle will give a short

beep sound after the  key on the transmitter is depressed.

Re-lock function

If both the front and rear doors and the liftgate are properly closed, all door locks will automatically lock, at the same time, the turn light will flash once if neither any door is opened nor the ignition switch is turned on within 40 seconds

after the  key on the transmitter is depressed. If either any of the doors and liftgate has been opened or the ignition switch has been turned on within 40 seconds after the  key on the transmitter is depressed, the door lock

auto-lock function will fail.

Tip

Remote door unlocking and locking are allowed when you carry the transmitter inside your vehicle. When the ignition switch is in the "ON" position, the transmitter function will fail.

Proper use of the transmitter

When using the transmitter, be sure to note the following:

- The remote controller can keep effective at a distance of 10 meters away from the car, but vary with the change of external environment or operating angle.
- Pressing the LOCK key

and the UNLOCK key frequently will cause the hazard warning light to fail to flash accordingly.

Tip

Using the transmitter properly not only can make your operation easier but also can prolong the service life of the transmitter.

- When any control key on the transmitter is pressed, the LED indicator will come on. When the LED indicator dims or the operational distance of the transmitter is reduced gradually, it indicates that the battery power is low and no transmitter

damage. Then you need to replace with a new battery.

Tip

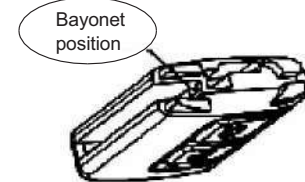
After battery replacement, you can press the UNLOCK or LOCK button freely. It indicates that the replacement battery has been installed properly when the indicator flashes.

Replacing the transmitter battery

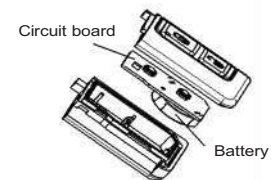
When replacing the transmitter battery, you can either have the job done at a Haima Automobile Sales Service Shop or do the job by yourself. When replacing the battery, please get 2 new lithium-based battery cells ready

(specification: Maxell CR1620). Follow the procedure below to replace the battery:

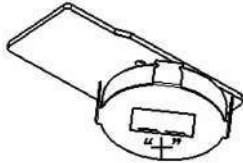
1. Pull the upper and lower parts of the transmitter apart hard.



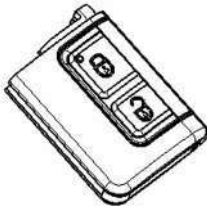
2. Disassemble the lower part, and remove the old batteries from the circuit board.



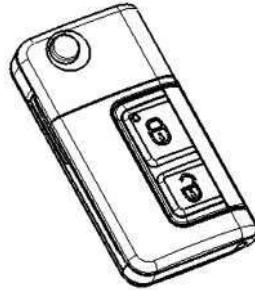
3. Install the prepared new batteries into the circuit board.



4. Snap the lower part of the transmitter shut.



5. Snap the upper and lower parts of the transmitter shut to complete the procedure.



Automatic control Speed controlled door lock function

When the vehicle speed exceeds 20km/h, all door locks will automatically lock.

When the vehicle speed exceeds 20km/h with the driver side door inner handle button in the UNLOCK position, all doors will automatically lock after 2 seconds if no doors are opened.

If you briefly stop your vehicle during driving without shutting down the engine and with the driver side door lock button in the UNLOCK position and any door opened and then closed, all door locks will still automatically lock when the vehicle speed exceeds 20km/h once again after you resume driving.

Control of rear interior lights

(switch in the DOOR position)
When you lock doors using the transmitter or manually, the rear interior lights will illuminate for 3 seconds and then go out.

When you unlock doors using the transmitter or manually, the rear interior lights will illuminate for 15 seconds and

then go out.

When all doors are properly closed with the ignition switch in the "ON" position, the rear interior lights will go out; when the ignition switch is in the "OFF" position, the rear interior lights will illuminate for 15 seconds and then go out.

If any door is not properly closed, the rear interior lights will constantly illuminate.

Anti-theft System ECU immobilizer system

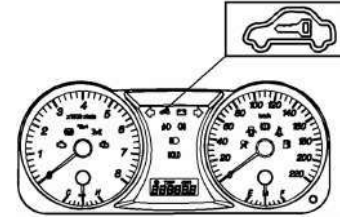
The anti-theft system is able to ensure that the engine can be only started with the key recognized by the system.

If someone attempts to start the engine with an unrecognized key, the engine will not start, thereby helping to prevent the theft of your vehicle.

Attention

Any unauthorized alteration or amendment of anti-theft system without the authorization by Haima Automobile may void the user's control authority on the equipment.

Burglar alarm light



If the system operates properly, the burglar alarm light will go out when the ignition switch is turned to the "ON" position.

A system malfunction is indicated if the alarm light quickly flashes, does not illuminate at all or constantly illuminates. If any of these occurs, contact a Haima Automobile Sales Service Shop as soon as possible for the solution.

Common problems in usage

During use of the ECU immobilizer system, you may encounter the following problems:

- The signals from television, radio station, radio transceiver or mobile phone may probably interfere with the anti-theft system. If the engine fails to start when you are using the correct key, please check the burglar alarm light. If the warning light is flashing, pull out the key and wait at least for about 2 seconds, re-insert the key to start the engine again. If fail to start for 3 times, please consult

Haima Automobile Sales Service Shop.

- If the burglar alarm light keeps flashing during your driving, do not turn off the engine; instead, drive your vehicle to a Haima Automobile Sales Service Shop directly to have the professionals there inspect and repair it. If you turn off the engine while the alarm light is flashing, you may not be able to restart it.
- The password provided with the key is unique. For this reason, you have to wait a period of time before getting a duplicate key. The key can be obtained only from the Haima Automobile

Sales Service Shop.

- Please keep your car key safe. At the same time, always keep a spare key for any contingency.
- If the key is lost, the Haima Automobile Sales Service Shop can reset the code of spare-key and the anti-theft system.
- The engine cannot be started by use of a key without reset.

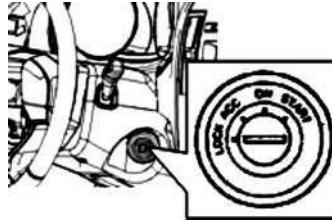
Mechanical theft-deterrent system

The mechanical theft-deterrent system is an effective traditional anti-theft facility. During its use, you should note the following:

- After parking the car, turn the ignition switch on the position "LOCK", take off the key. Then rotate around the steering wheel until it has been locked. At this moment, the anti-theft steering wheel is locked up and can play its role of anti-theft.
- When the ignition switch is turned on the position "ON", the locking of steering wheel is released

and can rotate freely.

- In case the ignition key can not be turned, please rock the steering wheel while turning the key until the ignition switch is turned to the "ON" position.

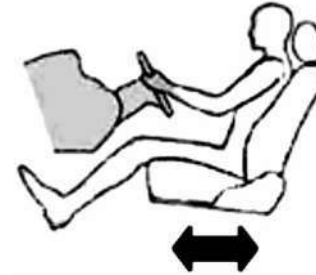


Caution

Never pull out the key before your vehicle comes to a full stop. Otherwise, you will lose control of your vehicle because of steering wheel lock.

Seat and seat belt system

Adjustment of driver seat Forward and backward adjustment of seat



If the driver sits too close to the steering wheel, he/she may hit on the steering wheel or impact in front on the inflated air bag in the event of a crash, resulting in personal injury.

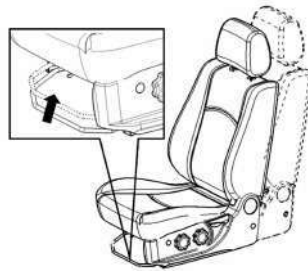
To reduce the possibility of injury, the driver should wear properly the seat belt and rely closely on the seat back. Under the premise that free operation is ensured, the driver should try to sit away from the steering wheel.

The passenger on the co-driver seat should move the seat as backward as possible under the premise of ensuring the comfort of passengers on the rear seats

Caution

Adjusting the driver seat while the vehicle is moving is extremely dangerous. It may cause you to lose control of your vehicle resulting in serious accident.

When adjusting a seat forward and backward, pull up first the adjustment lever in front of the seat cushion while sliding the seat to the desired position, afterward release the lever. Then, try to forcibly slide forward and backward the seat, whereby the adjustable parts can be firmly locked.



Fore and aft adjustment of power seat (optional)

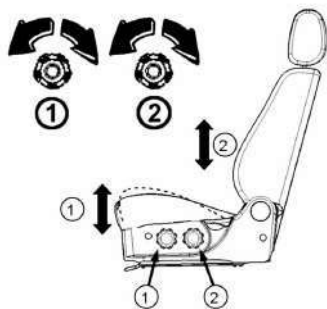
On a vehicle equipped with power seats, both its driver and front passenger seats can be electrically adjusted.

Pushing the switch ① forward and backward allows electrical fore and aft adjustment of the



Seat height adjustment

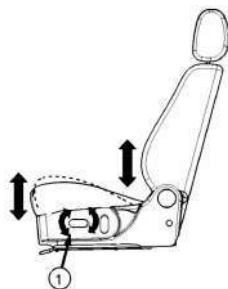
The driver's seat height is adjustable. You can adjust the height of the front of the seat up and down by turning the front knob ① on the left side of the seat. You can adjust the height of the rear of the seat up and down by turning the rear knob ② on the left side of the seat.



Height adjustment of power seat (optional)

On a vehicle equipped with power seats, its driver's seat height can be electrically adjusted (front passenger seat is not adjustable).

By turning the front and rear ends of the switch ① up and down respectively, you can adjust the height of the driver's seat forward and backward.



Adjustment of backrest angle



Regulate the seat backrest of driver to an upright or comfortable position, and ensure a sufficient distance between the chest and airbag. If you sit too close to the steering wheel, the inflating air bag will result in personal injury when the crash occurred.

The passenger on the co-driver's seat should also adjust the backrest to a vertical or comfortable position, and as far as possible away from the dashboard. If you sit too close

from the dashboard, the inflating airbag may cause the passenger's injury in case of a crash.

If the backrest is much inclined to the extent that the seat belt cannot attach on the passenger's chest, the safety function of seat belt will be reduced. In case of a crash, the wearer may fall out from the seat belt and cause the accident injury.

Attention

When adjusting a power seat, please avoid adjusting fore-and-aft position, height and seatback angle of the seat at the same time. When 2 or more adjustment items are made at the same time, the risk of blowing the power seat fuse will increase.

To adjust the seatback angle, pull up on the adjustment lever on the outboard side of the seat while leaning yourself forward slightly, and then loosen the lever after you lean back and adjust the seatback to the desired position. After the adjustment, try to push forward and backward the backrest of seat to ensure the lever is returned to the original place, for the time being, the backrest of seat has been locked into place.

Attention

When restoring the backward backrest to its original upright position, you should let it gently rebound by holding the backrest, so as to prevent the impact on the human body from sudden rebound.

**Attention**

When a crash occurs, the excessive tilt of backrest will result in serious injury of passenger.

Prior to the drive, please tilt the backrest nearly on an upright position and sit closely on the backrest.

On a vehicle equipped with power seats, the seatback angles of both its driver and front passenger seats can be electrically adjusted. By turning the switch ②, you can adjust the seatback angle of the seat.



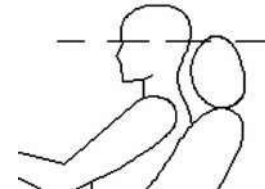
Adjustment of headrest

The headrest can provide a more comfortable and safer riding. The proper adjustment of headrest's position may protect the occupant's neck from injury or other head harms in the event of a crash.

Tip

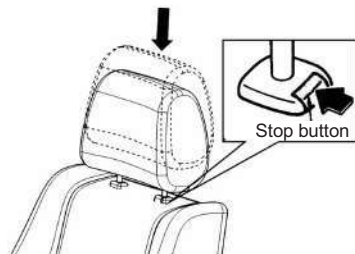
During power seat adjustment, excessive load or extended overload may cause the adjustment motor to self-lock. In the event of a motor self-lock, please stop operation and wait 2 minutes; do not resume adjustment until the motor automatically unlocks.

During the drive, it is very dangerous to adjust the headrest too low, or remove the headrest. In case of no support on the head back, the occupant may suffer from a serious neck injury in case of a crash, therefore, please be sure of all the occupants' heads correctly on the headrests before drive. When adjusting the headrest, the top of headrest should be kept in alignment with the occupant's eyes instead of with the occupant's neck.

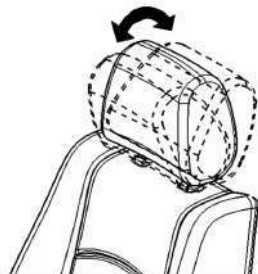


To increase the height of headrest, pull it up to the desired position.

To reduce it, hold the snap button pressed, and then push the headrest down to the desired position.



To adjust inclination of a head restraint, apply a force on its upper end while pushing it forward and backward.



Tip

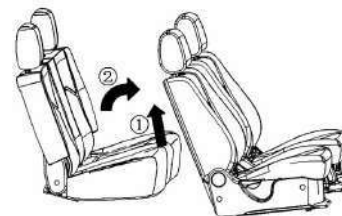
To allow the head restraint to provide maximum protection in the event of a crash, be sure to align its central part exactly with the back of the head of the occupant.

Folding rear seats

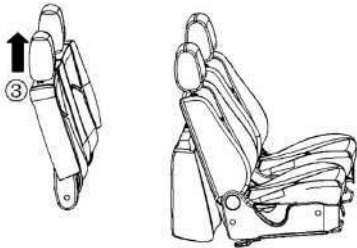
The maximum trunk space can be achieved by folding the rear seats. When you need to increase trunk space, you can fold up the seats.

Follow the procedure below to fold the rear seats:

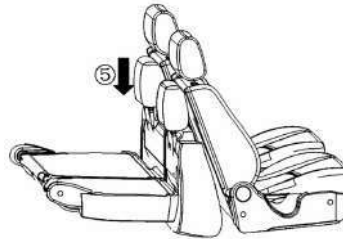
① Pull up on the front end of the seat cushion, and undo the seat restraint.



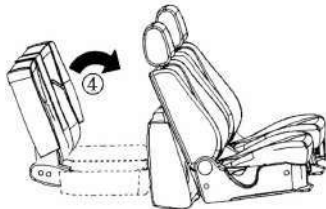
- ② Turn the seat cushion forward until upright.
③ Remove the head restraints on the rear seats.



- ⑤ Insert the removed head restraints into the tilted seat cushion holes.



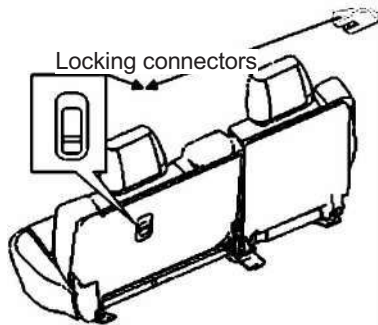
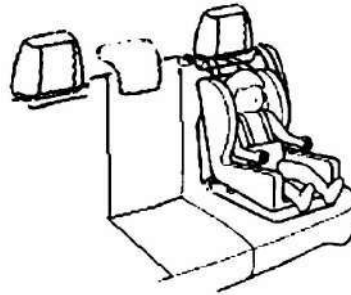
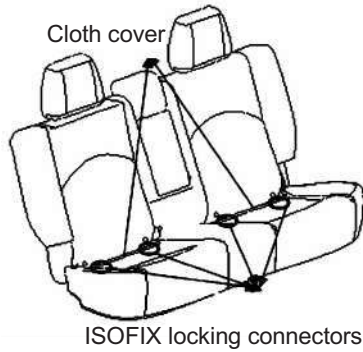
- ④ Tilt the seatback forward and level it.



Reset the rear seats in the reverse order of the above.

ISOFIX Device

ISOFIX child seat fastening system in the rear for the two outer rear seats enables easy and safe installation of the ISOFIX child seats. When fasten a child seat, raise the cloth cover under the child seats mark and fasten the two supporters at the lower end of the child seat on the ISOFIX locking connectors. Then pull backward the child seat upper ribbon and fasten it on the locking connector on the back of the seat back or on the ceiling.



Usage of seat belts

For safety of the driver and occupants, all seats on your vehicle are equipped with a seat belt. The seat belts can provide best protection during all types of collisions.

Seat belts help decrease the possibility and reduce the severity of injury of persons on board during vehicle accidents and sudden braking.

To make use of maximum protection of seat belts, it is required that occupants hold correct seating position and always wear seat belts properly.

Protection of seat belts

- Seat belts are intended to join occupants and a vehicle together so that occupants can be protected by the existing safety facilities on the vehicle.
- Seat belts can provide protection in various types of crashes, including frontal, side, rear collisions and various types of rollovers.
- During abrupt deceleration of your vehicle, they help avoid hitting in-vehicle facilities and other occupants.
- In the event of a vehicle collision or rollover, they avoid occupants being thrown out of the vehicle.

- When an air bag is triggered, it helps the occupant hold a good seating position so as to reduce the injury caused by air bag inflation and get the best protection from the air bag.

Tip

Drivers and occupants must have a good habit of wearing seat belts after they get on vehicles.


It is the driver's responsibility to urge every occupant to fasten his/her seat belt properly. Ensure that the driver and occupants always wear seat belts correctly.

Configuration of seat belt system

Each front seat is equipped with a three-point emergency locking seat belt. Under normal conditions, seat belts are retractable so that the occupants can wear them snugly.

In the event of a vehicle collision or sudden braking, seat belts will immediately lock to fix the occupants to their seats.

Each outboard rear seat is equipped with a three-point emergency locking seat belt. The rear center seat is equipped with a two-point lap belt of which the tension can be adjusted manually.

The seat belt system also includes the indicator light  in the instrument cluster. If the driver does not buckle up when the ignition switch is turned to the ON position, this warning light will remain illuminated until he/she buckles up. If the driver does not buckle up and the vehicle speed is greater than 20km/h, an audible alarm will be given and the alarm will not stop until he/she fasten his/her seat belt properly or 90 seconds have passed.

For better protection to front seat occupants, seat belt pretensioner systems are also set up.

Caution

Do not tamper with the pretensioner systems. Modifications to parts, circuits and electrical equipment in the pretensioner systems will affect normal functioning of seat belts.

Front seat belt pretensioners

To provide best protection, both the driver and front passenger seats are equipped with a pretensioner system. In the event of a moderate or severe frontal collision or near-frontal crash, the air bag and seat belt pretensioner will deploy simultaneously. After the air bag is triggered, the seat belt pretensioner will loosen gradually.

Like the air bag, the pretensioner can be triggered only in case of a moderate or severe frontal or near-frontal collision. Collisions in other directions will not trigger it. Some smoke (non-toxic gas) will be released when the seat belt pretensioner deploys.

This gas normally has no adverse effects on occupants; however, those with sensitive skin may experience light skin irritation.

If residue from the deployment of the air bag or the front pretensioner system gets on the skin or in the eyes, please wash it off with clear water as soon as possible.

The seat belt pretensioner can only be used once.

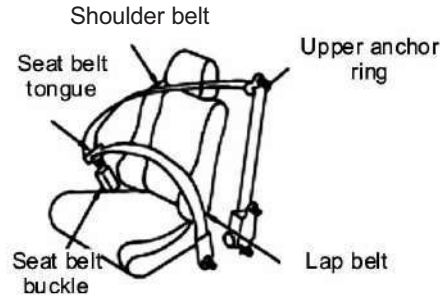
Caution

Once fired, it can not be reused. It must be replaced immediately even if there is no occupant on the seat then.

How to fasten a three-point seat belt

The front seats and the outboard rear seats are equipped with a three-point emergency locking seat belt.

This kind of seat belt should go across your shoulder, chest and hip.



To buckle up, follow the procedure below:

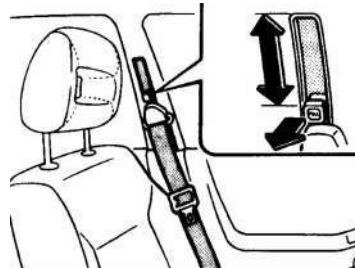
- Grasp the seat belt buckle and tongue.
- Slowly pull out the lap/shoulder belt.
- Insert the seat belt tongue into the seat belt buckle until you hear a click sound.
- Make sure that the shoulder belt fits snugly against your body. When fastening the seat belt, position the lap portion of the belt across your hip as low as possible. Pull up on the shoulder portion of the belt until it just fits snugly against your body.

This will allow your firm pelvic bone to receive the impact force during a vehicle collision and reduce the possibility of bodily internal injuries.



If necessary, the seat belts should be pulled up again to eliminate the relaxation of should strap. Then check whether the seat belt is across the chest and over the shoulder. This could spread the impact over the upper body.

If the seat belt touches your neck or only crosses your arm instead of your shoulder, you can adjust the height of the shoulder belt properly. To raise the seat belt, push the adjuster up. To lower the seat belt, press the lock button while pulling down the adjuster. After the adjustment is completed, make sure the adjuster has been locked.



Unfastening and adjusting the three-point seat belt



To unfasten the seat belt, depress the red "PRESS" button on the seat belt buckle while pulling out the seat belt tongue.

Follow the same procedures as those for front seat belts to fasten and unfasten the three-point seat belts for rear seats.

Caution

For road safety, the driver and occupants must adjust their seat belts properly with the vehicle stopped before starting off.

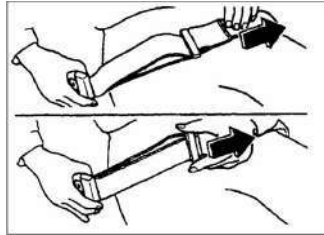
How to fasten a two-point seat belt

The rear center seat is equipped with a two-point seat belt.

To fasten the two-point seat belt, hold its tongue portion and pull it out until an appropriate length, and then insert the tongue into the buckle until you hear a click sound.

Hold the seat belt tongue and position it so that it forms a certain angle with the belt body, and then simply stretch it to

extend the seat belt. By stretching the loose end on the belt, the wear length of the seat belt can be reduced.

**Caution**

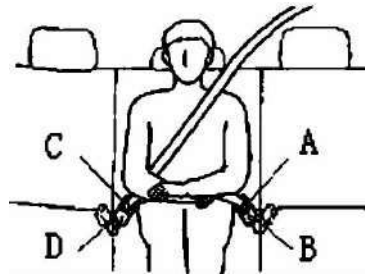
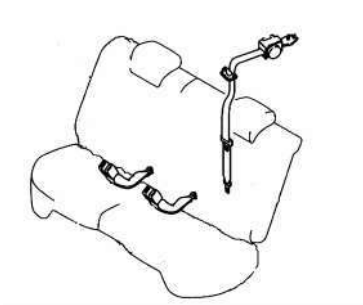
Never use one seat belt on more than one person at a time. It is forbidden to allow two persons share a seat belt. Especially, it is extremely dangerous to position a seat belt so that the belt crosses a child in the arm of an occupant.

The way to fasten the 3-point seat belt of the rear middle seat

The rear middle seat is equipped with a 3-point seat belt with emergency-locking retractor. This seat belt stretches over shoulders, chest and coxa. When fasten the seat belt:

- Put looking hook A in latch hook B till a "click" sound is heard.
- Hold locking hook C.
- Slowly drag out the waist belt/shoulder belt.
- Put looking hook C in latch hook D till a "click" sound is heard.
- Make sure the shoulder belt is in compliance with the body.

For better fastening, make the waist belt as low as possible to stretch over the coxa, and pull the shoulder belt to make the waist belt stay as close as possible to the body. In this way, the firm pelvis can stand impact force during collision and reduce the possibility of internal injury.



Safety airbag system

The car is equipped with a frontal protection airbag (SRS). In case of moderate to a severe frontal crash, it provides the supplement protection to the heads and chests of driver and passenger in front seat.

The auxiliary protection device includes two airbags as below:

- The left airbag located on the steering wheel to protect the driver;
- The right air bag located on the dashboard to protect the front seat occupant.

Composition of safety airbag system

The SRS airbag system consists of the following 3 parts:

- SRS unit (Safety airbag computer)
- SRS warning light
- Airbag components

The SRS unit is the control center of safety airbag system. Its purpose is to receive the signal input of collision sensor, determine if the airbag inflation is caused by ignition and make the auto malfunction diagnosis on the system.

The collision sensor integrated within the SRS unit is the main control signal input device of safety airbag system. Its role is to detect the intensity of vehicle collisions and convert it to the

microprocessor of SRS signal input unit.

The function of SRS warning light is to indicate whether the function of air bag system is working in normal state.

The air bag module comprises 2 parts: air bag and detonator systems.

Tip

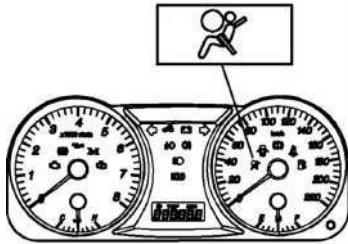
As an important component of the passive safety system on your vehicle, the air bag system can provide supplemental protection to the head and chest of each front seat occupant during a severe frontal crash.

Operating principle of safety airbag



At the moment a vehicle collision of certain impact intensity takes place, the SRS ECU will rapidly respond to the signals from the sensors: It fires the gas generator and allows the airbag pockets to rapidly inflate in a very short time after the collision occurs using the principle of rapid expansion of hot air so that an air cushion will be duly produced at the front of each of the driver and occupants to provide a certain protection to his/her head and chest.

Warning light of safety airbag



The airbag warning light illuminates and automatically goes out after 6 seconds when the ignition switch is turned to the "ON" position or the engine is cranked. This indicates that the SRS airbag system is working properly.

The airbag warning light may have the following abnormalities:

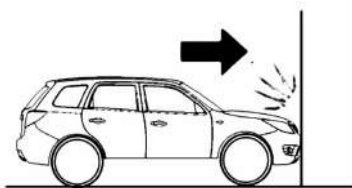
- The warning light does not illuminate at all when the ignition switch is turned to the ON position.
- The warning light remains illuminated after the engine is started.
- The warning light illuminates or intermittently flashes and goes out while the vehicle is moving. If any of these occurs, please contact a Haima Automobile Sales Service Shop as soon as possible. The vehicle can operate properly only after the fault is removed.

Tip

If any of above occurs, it indicates abnormal air bag. Once a frontal crash occurs, the air bag can not be triggered normally.

Trigger conditions of airbag

In case your vehicle collides with a firm wall made of concrete or similar at a speed of 24Km/h above during motion which causes overall serious deformation on the front of its components such as side rail, the value of the deceleration valve installed at the mounting location of the crash sensor will generally be greater than the critical value set in the SRS unit. As a result, the system will trigger the air bag.



In case your vehicle collides with a buffered object (mobile or deformable objects such as a vehicle or guardrail) instead of a hard wall made of concrete or similar, the impact velocity (vehicle speed) required to trigger the air bag will further increase.

Caution

Air bags can provide better protection only with seat belt usage. For the sake of safety, the driver and occupants must wear seat belts when the vehicle is moving.

Air bag triggering

- Air bags are triggered very quickly, which may cause personal chafing or bruising.
- When an air bag is triggered, the system will make a loud inflation noise and a little smoke will be released during deflation. Neither is likely to cause personal injury. However, those with sensitive skin or respiratory disease may experience a certain skin and throat irritation. If any residue (gas, etc.) gets on the skin, flush with clear water as quickly as possible.

- After an air bag detonates, both the temperature of the air bag module and the ambient temperature are elevated. Do not touch it intentionally; otherwise, you may be scalded.
- An air bag can be used only once. Triggered air bags must be replaced. Air bag replacement must be performed at a Haima Automobile Sales Service Shop.

Caution

Servicing or modifying your air bag system without permission is dangerous. This may cause accidental triggering or functional failure of air bags resulting in personal injury. Only have a Haima Automobile Sales Service Shop service your air bag system.

Cases in which air bags are not triggered

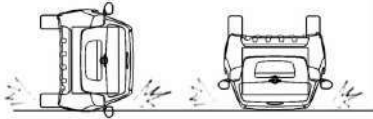
Case 1:

In the event of the following collisions during vehicle motion, the system will not trigger air bags because they are not frontal collisions.

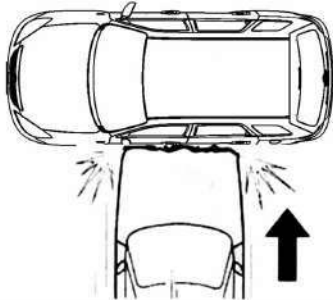
- Collision by another vehicle from behind



- Rollover



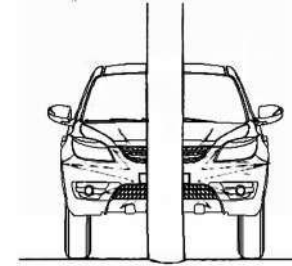
- Sideslip or side-impact

**Case 2:**

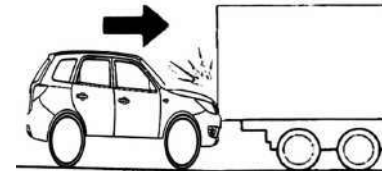
In the event of the following collisions during vehicle motion, the air bag system will generally not be triggered because the impact to occupants is small thanks to the damping effect of the vehicle body even if severe collision deformation occurs on the front of your vehicle resulting in serious vehicle damage.

These examples also indicate that air bags will not be triggered because the situations do not meet the criteria set for frontal collisions even if the collisions may cause personal injury and are also vehicle front collisions.

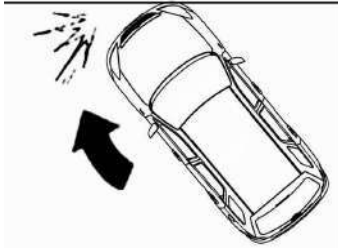
- The central front of the vehicle hits trees or poles.



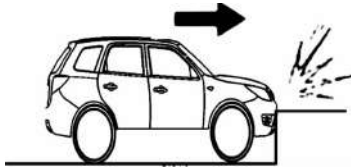
- The upper front of the vehicle hits or runs under a truck's body bottom.



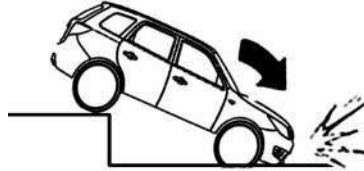
- The vehicle encounters a frontal offset collision.



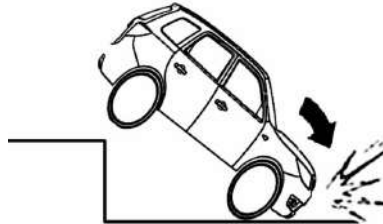
- The vehicle hits road shoulders, steps or other low, hard objects.



- The vehicle drops into a pit or hits its edge.



- Excessive hard landing or dropping when crossing the steps.



Tip

In the event of an impact from the front of the vehicle body resulting in a collision similar to a frontal collision with a concrete like hard wall and further causing the vehicle components such as front side rail to be subjected to frontal impact deformation, air bags will be triggered because the triggering conditions of the air bag system are met even if the deformation on the front of the vehicle is not so severe.

Side Safety Airbag (Optional)

Safety airbag (SRS) for side protection is equipped for some vehicle types (Refer to Sales Configuration Form for details), used to provide auxiliary protection to the head and chest of the driver and the front-seat occupant, in the case of medium even severe side collision.

Supplemental protection device includes two safety airbags:

- Left-side airbag is located in the driver seat, to protect driver.
- Right-side airbag is located in the co-driver seat, to protect front-row occupant.

So long as the vehicle is running, the side airbags are readily under the standby status.

Side Safety Airbag System Composition

Automobile side safety airbag system includes the following three parts:

- SRS Unit (Safety Airbag Computer)
- SRS Warning Light
- Airbag Subassembly
- Side Crash Sensor

SRS unit is the control center of the safety airbag system, and its function is to receive the input signal of the crash sensor, to judge whether or not to ignite for airbag to be inflated, and to perform self diagnosis on system fault.

Side crash sensor is installed on the lower end of the inner place in the middle column of vehicle body, as the main

control signal input device in the safety airbag system, and its function is to detect the strength of vehicle collision, to be transformed into signal into the microprocessor of the SRS unit.

The function of SRS warning light is to indicate whether or not the function of the safety airbag system is under normal condition.

Airbag subassembly includes two parts of airbag and powder gas generator system.

Reminder

The function of safety airbag is next to the auxiliary protection device of seat safety belt.

Side Safety Airbag Operating Principle

When collision happens to vehicle and reaches certain crashing strength, the airbag computer makes rapid response to the signal sent out by sensor, to ignite gas generator, for air bag to be quickly inflated within an extremely short time after collision, by making use of the hot air abrupt inflation principle, to generate an air cushion on the side face of the driver and the occupant, for personal abdomen and chest to get certain protection.

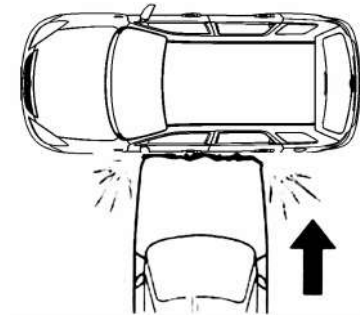
Notice

Only under the condition when safety belt is fastened, the safety airbag system can play a better protective function. Based on the consideration about safety aspect, the front-row occupant must wear safety belt, when vehicle is running.

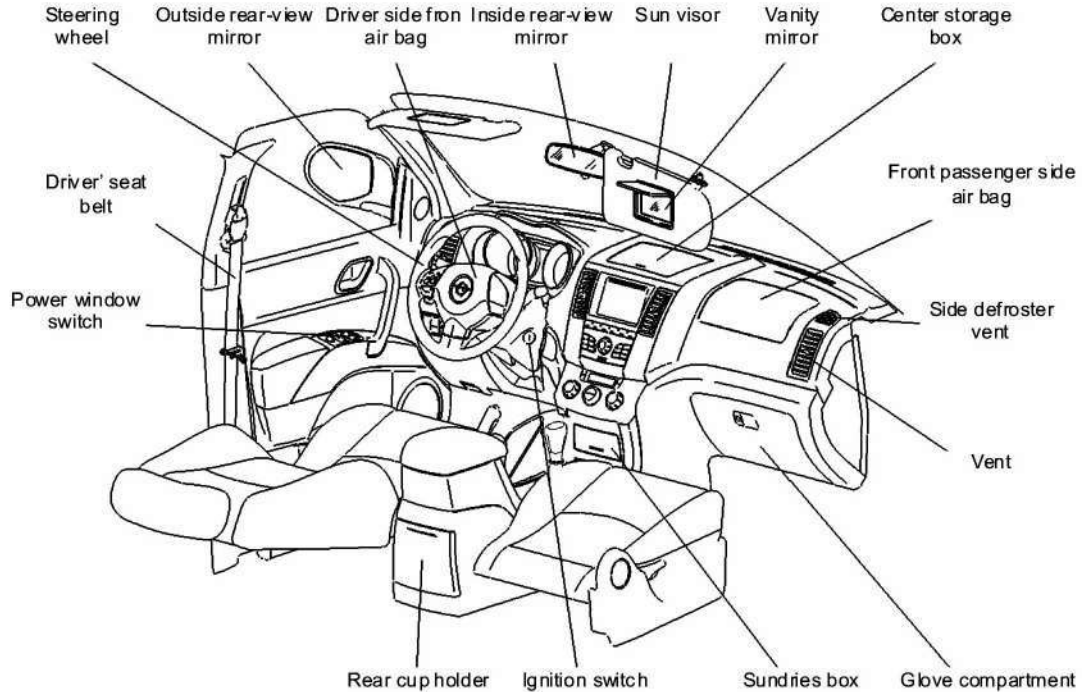
Safety Airbag Triggering Conditions

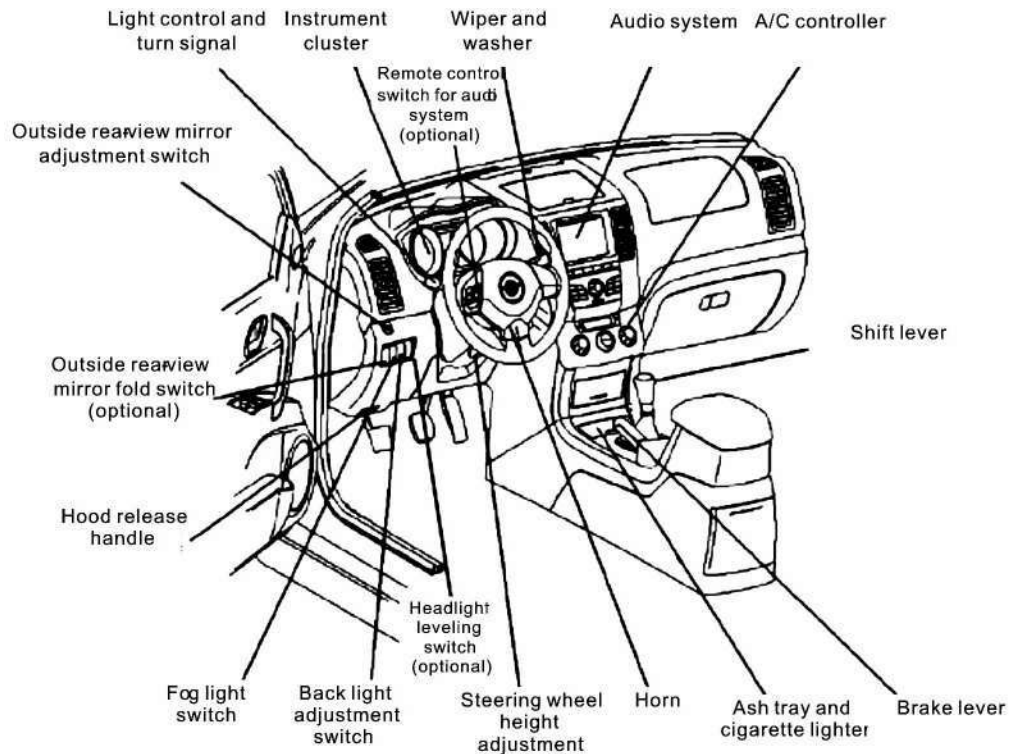
In the running process, if vehicle bumps into a variable barrier on the side face with energy reaching or exceeding a speed of 30km/, when severe deformation on the side face on a whole such as the middle

column of the vehicle and other parts is caused, the deceleration valve value installed in the place of crash sensor is generally larger than the critical value set in the SRS unit, the system will trigger the safety airbag.



Configuration and Functions





Types of configuration

The automobile equipment is divided into the standard and optional types

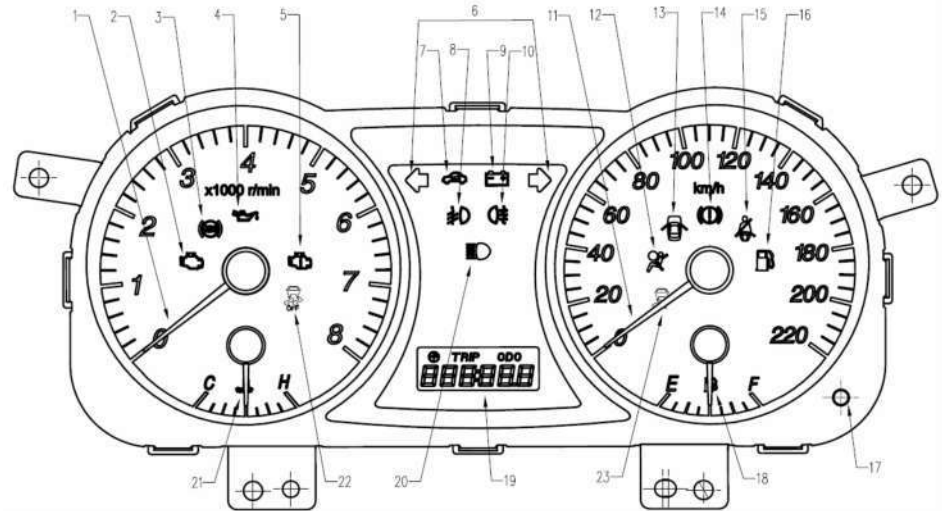
Standard configuration

It means basic configuration that all ex-factory products have and exempt from special instructions in the text

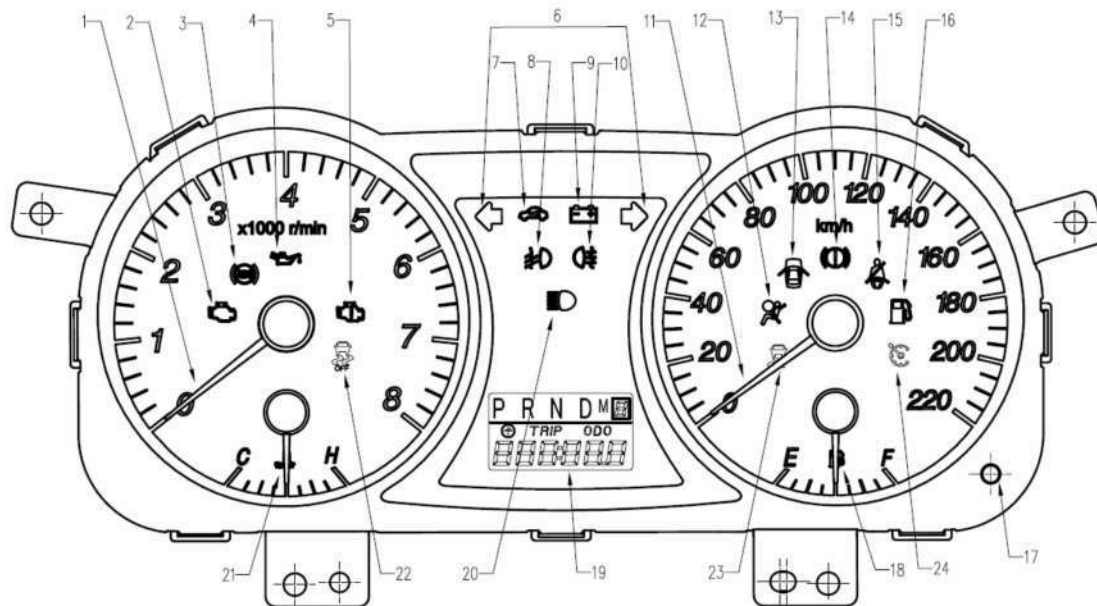
Optional configuration

The configuration added or replaced according to various models of vehicles marked with "optional" in the text.

Combination instrument(MT)



Combination instrument(AT)



The combination instrument includes the engine tachometer, speedometer, odometer, fuel oil dial indicator, coolant temperature indicator and various indicators and warning lights etc,

1. Engine tachometer

It indicates the engine speed.
The digital readout: x 1000 rpm.

2. Exhaust failure warning

light 

This indicator light is used for emission control system diagnosis. When the ignition switch is turned to the ON position, this light should illuminate. If it does not illuminate, please contact a

Haima Automobile Sales Service Shop as soon as possible.

After the engine is started, this indicator light should go out. If this light constantly illuminates when the engine is running, it indicates that the engine control system has detected a possible emission control system malfunction. Then please contact a Haima Automobile Sales Service Shop as soon as possible.

3. ABS warning light



When the ignition switch is turned to the ON position, this warning light will illuminate for a few seconds.

If this warning light stays on after the engine is started, it indicates an ABS system malfunction. However, the brake system on your vehicle still functions. Should this happen, please contact a Haima Automobile Sales Service Shop as soon as possible.

4. Oil pressure warning light



Under normal conditions, this warning light illuminates when the ignition switch is turned to the ON position and turns off when the engine is started.

If this warning light constantly illuminates, any of the following may occur:

- Insufficient oil pressure;
- Oil shortage in the lubricant line;

If the light remains illuminated even after you add oil, have your vehicle towed to a Haima Automobile Sales Service Shop for servicing.

Caution

Never run the engine if the oil pressure is low. Otherwise, serious engine damage may result.

5. Engine fault warning light



This light flashes when the ignition switch is turned to the ON position. If it does not illuminate, please contact a Haima Automobile Sales Service Shop as soon as possible.

After the engine is started, this light should go out. If this light illuminates or flashes when the

engine is running, it indicates that the engine control system has detected an abnormality in the powertrain. Then, please contact a Haima Automobile Sales Service Shop as soon as possible.

6. Turn signal/hazard warning indicator lights



When operating the turn signal lights, the left or right turn signal indicator light will flash to indicate which turn signal light is working.

When operating the hazard warning lights, both turn signal indicator lights flash.

Tip

If an indicator light does not flash, its bulb may have been burned out.

7. Anti-theft system

warning light



When the ignition switch is turned from the ON position to the ACC position, this indicator light starts to flash every 2 seconds to indicate that the immobilizer system has been activated.

When the ignition switch is turned to the ON position using the correct key, this light will stop flashing. Then, the engine immobilizer system is disarmed and the indicator light illuminates for approx. 3 seconds and goes out. If the engine can not be started using the correct key and the indicator light keeps illuminating or flashing, then the system

may have a problem. Should this happen, please contact a Haima Automobile Sales Service Shop as soon as possible.

8. Front fog lamp indicator



When front fog lights are illuminated, this indicator light is illuminated at the same time. Front fog lights will be illuminated only when position lights are illuminated.

9. Battery charge warning light



This indicator light illuminates when the ignition switch is turned to the ON position and turns off when the engine is started.

If this light comes on when the engine is running, any of the following may occur:

- The charging circuit failed;
- Generator belt broken or loosened;
- Generator's failure
- Battery failure

10. Rear fog lamp indicator



When rear fog lights are illuminated, this indicator light is illuminated at the same time. Rear fog lights will be illuminated only when position lights and front fog lights are illuminated at the same time.

11. Speedometer

This meter indicates the instantaneous speed of vehicle.
Unit: km/h.

12. Airbag warning light



If air bag/front seat belt pretensioner systems operate properly, the warning light will continuously illuminate for 6 seconds and go out after the ignition switch is turned to the ON position or the engine is started.

If this warning light constantly illuminates or does not illuminate at all after the ignition switch is turned to the ON position or the engine is started, it indicates a system malfunction. Then, please contact a Haima Automobile Sales Service Shop as soon as possible.

13. Door ajar warning light



When any door is opened, this light will come on and so will the courtesy light on the inside of the door at the same time. If the rear interior light switch is in the "DOOR" position, the lights will come on automatically.

After the door is closed properly, the interior lights will go out, and the courtesy light on the inside of the door will illuminate for 15 seconds and go out.

Caution

This warning light does not warn the state of the liftgate. When the liftgate is opened, the trunk light constantly illuminates.

14. Brake system warning light



If any of the following occurs, this light comes on:

- The parking brake lever is pulled up or not fully released with the ignition switch in the START or ON position.

Caution

Continue driving your vehicle is dangerous when the brake system warning light comes on. This indicates that the brake system of your vehicle may fail at any time. When this warning light comes on, please contact a Haima Automobile Sales Service Shop as soon as possible.

- Brake fluid level drops quickly when the parking brake lever is fully released.
- This light comes on while the ABS warning light is illuminated, it indicates an electronic brake force distribution (EBD) system malfunction.

15. Safety belt warning light



If the driver's seat belt is not fastened when the ignition switch is turned to the ON position, this warning light will stay on until the seat belt is fastened properly.

16. Low fuel level warning light

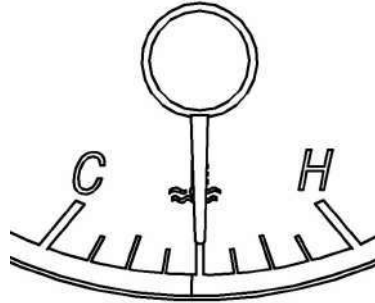


When the fuel in the tank is going to be used up, the warning light in the fuel gauge lights up. The fuel should be added as soon as possible.

17. Odometer button

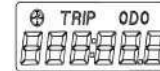
This button allows switching among total odometer, trip meter and dashboard clock. The initial display mode is total odometer mode. By depressing this button quickly, you can enter trip meter adjustment mode. In trip meter adjustment mode, press this button and hold for more than 2 seconds to clear the meter.

18. Fuel oil dial indicator



This gauge indicates the fuel level in the fuel tank. It is recommended that 1/4 above tank storage be maintained. When the low fuel warning light comes on or the pointer enters the red alarm area, refuel as soon as possible.

19. Odometer/time display



It displays total odometer reading, trip meter reading, or time.

When the ignition lock key is pulled out and all doors are closed, this display will disappear after 3 minutes.

Tip

When a disconnected battery is reconnected, readings of total odometer, trip meter and clock will return to zero.

When any door is opened or the key is inserted into the ignition lock, this display screen can reenter total odometer display mode.

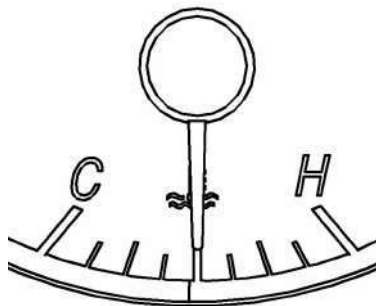
20. Headlight high-beam indicator light



When high beams come on, this indicator light illuminates at the same time; alternatively, this indicator light illuminates at the same time when the turn signal lever is turned to the "flash-to-pass" position.

21. Coolant temperature indicator

When the pointer is in a non-red zone, the temperature is normal. When the pointer is in the red zone, the temperature is too high.



Caution

When the pointer is in the red zone, it indicates engine overheat. Then, continued vehicle driving will result in serious engine damage.

22.ESP OFF Switch Indicator Light

When ignition switch is on "ON" position, the indicator light will light for 2~3 seconds. When ESP function is turned off by ESP OFF switch, the indicator light will continuously light, then when the ESP function is started again, the indicator light will be turned off.

23. ESP Failure Indicator Light

When ignition switch is on "ON" position, the indicator light will light for 2~3 seconds. When ESP system and related sensor are indicated a system malfunction, the indicator light will continuously light. When ESP function is normally acted,

the indicator light will flash.

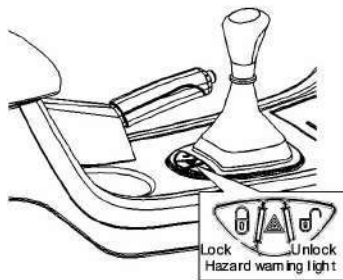
24. Cruise Control System

When Cruise control system is working, the indicator light will light in green. When cruise control is standing by the indicator light will light in yellow, when cruise control is canceled, the indicator light will be turned off.

Warning Signs

Hazard warning light

When the hazard warning light switch is depressed, all turn signal lights will flash at the same time. This button is also operable with the ignition switch OFF.



Tip

With the hazard warning light ON, turn signal lights are inoperative.

Key hole light

When you open a door and enter the vehicle, the light below the keyhole will be illuminated to provide night illumination.

After all doors have been closed properly, this light will continuously illuminate for 30 seconds and then automatically go out. If any door is not properly closed, the light will continuously illuminate for 5 minutes and then automatically go out.

Tip sound

When any door is opened after engine shutdown, the buzzer will give out long beeps if the dash light is not turned off. If

the dash light is turned off with the key not pulled out, the buzzer will give out short beeps.


Combination switch


The combination switch is placed below the steering wheel, including the left/right poke rods.

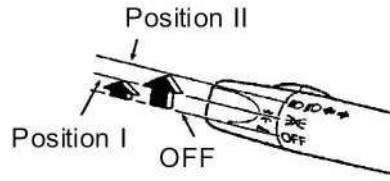
Left lever

Knob controlled headlights

To control headlights, turn the knob at the end of the left lever of the combination switch.

To light up front position lights, dash light, rear position lights, and rear license light, turn the knob to the Position I ().

To light up headlights, front position lights, dash light, rear position lights, and rear license light, turn the knob to the Position II ().



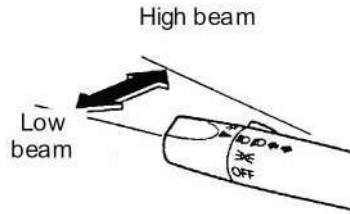
Tip

To prevent battery discharge, turn off all lights immediately after the engine is turned off.

Rod controlled high/low beam

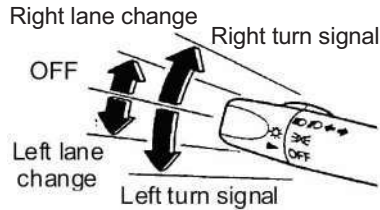
Turn on the headlight switch and push the left lever forward, high beams and low beams will come on simultaneously, at the same time, the high beam indicator light in the instrument cluster will come on (blue light). Pull the left lever back, only low beams will come on.

To allow headlights to flash, simply turn the left lever back to the extreme position. (Then you need not to turn on the headlight switch.) After released, the left lever will automatically return.



Rod controlled turn signals

Move the left lever down (for a left turn) or up (for a right turn) to the stop position. During a turn, front and rear turn signals and the turn signal indicator light flash at the same time. The signals will automatically go out after the turn is completed, and the lever will automatically return to its original position.

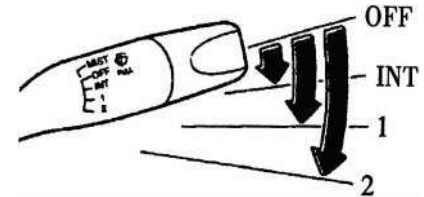


During a lane change, move the left lever slightly toward the direction of the change until the indicator light flashes, and hold it there. It will return to its original position automatically when released.

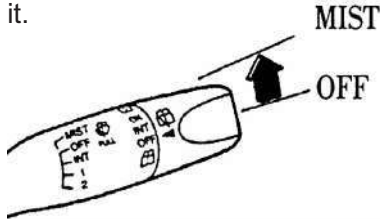
Right lever Rod controlled front windshield wiper

To turn on the front windshield wiper, set the ignition switch to the ON position and pull the lever down.

INT-Intermittent
1-Normal speed
2-High speed

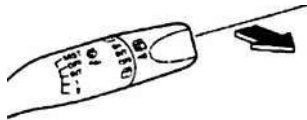


To complete a single wiping cycle, press the lever up to the MIST position and then release it.



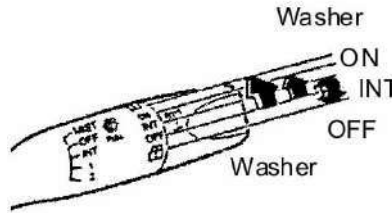
Rod controlled front windshield washer

To spray washer fluid, set the ignition switch to the ON position and pull the lever toward the rear of your vehicle. In the OFF or INT position, the wiper will be activated only when the lever is released.



If the washer does not work, please inspect the washer fluid level. If the level is normal, please contact a Haima Automobile Sales Service Shop.

Rod controlled rear windshield wiper




To turn on the wiper, turn the lever with the ignition switch set to the ON position.

ON-Normal

INT-Intermittent

Rod controlled rear windshield washer

To spray washer fluid, turn the lever to the  position. Release the lever, the washer will stop.

If the washer does not work, please inspect the washer fluid level. If the level is normal, please contact a Haima Automobile Sales Service Shop.

Audio system

Single CD/radio

Type of audio system
HAIMA 7 is equipped with different types of audio systems, including:

- Single CD/radio
- CD/navigation

Before reading this section, please identify the type of the audio system on your vehicle first and then refer to the related sections of this manual.



Switch/Mute setting


-  **Power switch**

With the machine OFF, depress this key and the audio system will turn ON.
With the machine ON, depress this key and the audio system will turn OFF.


-  **Mute setting**

With the machine ON, depressing this key can activate/exit mute mode.

Volume adjustment

Turning the  knob clockwise/ counterclockwise can increase/ decrease volume gradually.


Sound mode setting

Depress the SND key to select "BASS-TRE", and then you can enter the sound setting mode by turning the  knob. In this mode, you can set 5 sound effects in the following order: BASS-TRE (set Bass & Treble of your machine by yourself) → JAZZ → VOCAL → POP → CLASSIC → ROCK.

Audio mode setting

Depress the SND key to select the item you want to set. Each time you press the mode will change in the following order: BASS-TRE (BASS-TRE, JAZZ, VOCAL, POP, CLASSIC, ROCK) → BASS → TREBLE → BAL → FAD → LOUD (OFF, Low, Medium, High) →

BASS-TRE.

Under the item to be set, set the option you select by turning the  knob. After 5 seconds, the display screen will return to the last operation mode. Bass & Treble setting is allowed only when the sound mode BASS-TRE is selected.

Settings menu

Press the SET key and hold for more than 2 seconds to enter the Settings menu. Then click on the SET key repeatedly to cycle between "SEARCH" and "CD" and set. After the desired option is selected, you can adjust its value by clicking on the ◀ or ▶ key.

Under "SEARCH", you can set search mode to "SRCH LO (search locally)" or "SRCH DX (search at a distance)". In SRCH DX mode, the radio will search for strong stations first and then the weak ones. In SRCH LO mode, the radio will search for any receivable stations.

Under "CD", you can set CD audio out gain to -2, -1, 0, 1 or 2. Output volume varies with gain.

After the setting is completed, press the SET key and hold to exit the Settings menu.

Operating the radio



The radio has the following tuning methods: Manual, Seek, Scan, Preset channel, and Auto memory tuning.

The easiest way to tune stations is to set them on preset channels.

Tip

If the power supply of the audio unit is interrupted (e.g. fuse blows or the battery is disconnected), the preset channels will be erased.

- **FM key**

Depressing the FM key can switch among band modes (FM1, FM2 and FM AST) and the system will display the selected band mode.

- **AM key**

Depressing the AM key can switch between band modes (AM1 and AM AST) and the system will display the selected band mode.

- **Manual tuning (if you know the frequency of the desired station)**

Press the search key ◀ or ▶ and hold for approx. 2 seconds to enter manual tuning mode. Press ◀ to seek stations of lower frequencies; press ▶ to seek stations of higher frequencies. If no search action is performed after 5 seconds, the system will return to the mode of the last operation automatically.

- **Auto tuning**

Depress the search key ◀ or ▶

to start auto seek tuning. Press the ◀ key to tune the station of a lower frequency; press the ▶ key to tune to the station of a higher frequency. The seeking will automatically stop when a station is found. To seek another station, simply depress the same key.

- **Auto select tuning (AST)**

Press the FM key and hold for more than 2 seconds to activate FM auto memory function; press the AM key and hold for more than 2 seconds to activate AM auto memory function. The stations with the strongest frequencies received will be automatically stored in the 6 preset keys (keys 1 through 6).

- **Manual select tuning (MST)**
The 6 preset keys (1 through 6) can be used to store 6 stations in each band.
To store a station, tune to the desired station first, and then press a channel preset key and hold for at least 2 seconds until the system gives a beep sound and the channel preset key number and the frequency of the station selected are displayed. The station has now been held in the system memory. Repeating above operation can store other stations.

Tip

When a station is stored, the one previously stored at this position in the memory will be erased. If less than 6 stations are stored, the ones previously stored to the remaining keys will not be erased.

- **Tuning a preset station**
Select the band you want to tune, and then simply depress the channel preset key. The system will display the channel preset key number and the frequency of the station selected.
- **Frequency scanning**

Depressing the SCN key can turn on/off the frequency scanning function. After the frequency scanning function is activated, the system will scan each station in the current band and stop there for 5 seconds.

Operating the single CD player



Insert the CD into the slot, label-side up. The auto-loading mechanism will immediately set the CD and begin play. At the same time, the system will display the number of tracks. When there is a CD in the CD player, you can depress the SRC key to select the CD as the audio source and begin playback.

- Random playback (RND)
Press the RND key, all tracks will be played randomly. Press this key again to exit random playback mode.
- Repeat playback key (RPT)

Depress the RPT key to activate or deactivate the repeat playback function. In repeat playback mode, the current track is played repeatedly.

Operating the single CD player

- Scan playback (SCN)
Press the SCN key to activate or deactivate the music scan function. In music scan mode, you can browse each track for 5 seconds.
 - Track search
Press the ◀ or ▶ key to select the desired track and playback will start from the music selected.
 - Fast-forward/Reverse

Press the ◀◀ or ▶▶ key to advance or reverse through a CD at high speed. After the key is released, normal playback will be resumed.

- CD eject key
Depress the CD eject key ▲ to eject the CD.

Operating tips for the CD player

If it is very cold inside your vehicle, do not use this machine immediately after the heater is turned on. Otherwise fogging may occur on the disc or the optical components of the player to make the unit fail to work. The CD or the optical parts (prism and lens) in the CD player/CD changer may fog up and condensate water drops

may occur, which is called condensation. At this time, the system will eject the CD automatically. A clouded CD can be wiped with a soft cloth. Clouded optical components will clear naturally in about an hour. Wait for normal operation of the system to return before attempting to use the audio unit.

Using the CD player

When using the CD player, please note the following:

- Do not spill any liquid on the audio system.
- Do not insert any objects, other than CDs, into the CD slot.

- When running, the CD revolves at high speed within the audio unit, so defective (cracked or badly bent) CDs should never be used.
- Do not use non-conventional CDs such as heart-shaped and octagonal ones. Otherwise the CD player may be damaged.
- A new CD may have a rough inner hole or outer edge. If such a disc is used, proper setting will not be possible and the CD player/CD changer will not play the CD properly. Then rub off the rough inner hole or outer edge of the CD in advance by using a ball-point pen or pencil.
- If driving over uneven surfaces, the sound may be intermittent and jumping. If a road surface is too bumpy, the CD player will activate protection function to stop CD playback and change to radio mode.
- The CD player has been designed to play CDs bearing the identification logo. No other CDs can be played.
- Be sure never to touch the signal surface when handling the CDs. When replacing a CD, grasp its outer edge or inner hole.
- Do not stick paper or tape on the disc surface. Avoid scratching the reverse side (the side without a label).
- Dust, finger smudges, and dirt can decrease the amount of light reflected from the signal surface, thus affecting playback of the audio system. If the CD should become soiled, gently wipe it with a soft cloth from the center of the CD to the edge.
- No hair sprays, antistatic agents or household spray cleaners and volatile chemicals such as benzene and thinner can be used to wipe dirt. All these can damage the surface of the CD. Anything that can easily damage, warp, or fog CDs should never be used to clean off dirt from them.

- Like traditional audio recording media, all CDs are made of plastics. CDs should be put into their box in a timely manner and avoid being exposed to sunlight.
- The CD player ejects the CD if the CD is inserted upside down. Also dirty or defective CDs may be ejected by the system automatically.
- This CD player has been designed to play 12 cm discs. Please do not use shaped discs.
- Do not insert a disc cleaner into the CD player.
- Do not insert a disc with coming off label or dense packing into the system.

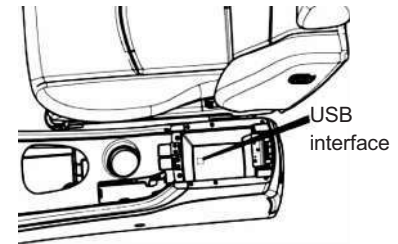
Tip

Safekeeping and careful operation can prolong service lives of discs.



USB operation



- Inserting the U-disk
After the U-disk with music files is connected to the radio and CD player, depress [SRC] key to select USB as audio source. Then the radio and CD player will play the music files on the U-disk.



- Random playback (RND)
Press the RND key, all tracks will be played randomly. Press this key again to exit random playback mode.

- Repeat playback key (RPT)
Depress the RPT key to activate or deactivate the repeat playback function. In repeat playback mode, the current track is played repeatedly.
- Scan playback (SCN)
Press the SCN key to activate or deactivate the music scan function. In music scan mode, you can browse each track for 5 seconds.
- Track search
Press the ◀ or ▶ key to select the desired track and playback will start from the music selected.
- Folder up/down
Depressing the hardkeys  and  can change among folders on the MP3 disc.

Tip

Please pay attention to the hygienic conditions in the storage box so as to avoid liquid infiltration which may result in interface damage. Please do not press the USB interface hard so as not to cause it to come off. Please do not force-unplug the U-disk during U-disk file playback. This may damage your files. You had better plug and unplug the U-disk when the machine is turned off.

Tip

The USB protocol specifies stringent requirements for length, impedance, signal delay, etc. of cables and it is difficult for the cheap USB adapter cables available on the market to come up to the standard. Therefore, please use extension cables as far as possible and if required, use the ones provided with your vehicle or designated; otherwise your machine may not read the U-disk.

CD/Navigation and Acoustic System

Haima 7 is configured with different type of acoustic system. Prior to reading the manual, please firstly confirm that the type of the acoustic system on the vehicle is consistent to the manual, before reading the relevant part of this manual.

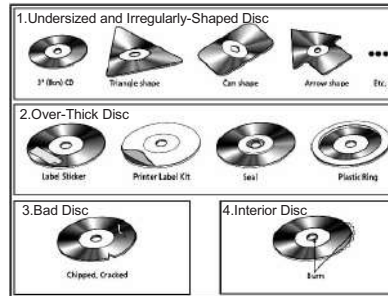
Description: The pictures in this manual are schematic drawings, only for reference. Physical product shall apply so far as details are concerned.

Working Directions:

1. When vehicle is running, driver is advised not to operate this navigation system, to avoid affecting driving safety due to

attention deficit. Our Company will not bear any responsibility, if any aftereffect is caused thereby.

2. This machine can only play normal discs with diameter as 12CM. It cannot use discs in non-conventional types described as follows, and otherwise it may likely cause failure of disc ejection or damage of the host unit.



3. The entertainment and navigation system of this vehicle can play CD-DA, CD-ROM, CE-R, and CD-RW discs.

4. Please avoid using any solvent, such as detergent sold in market, and antistatic spray to clean the discs.

5. Please keep clean the interior environment and the discs, to avoid adherence of dust on the laser head, giving rise to reduction of the player disc reading ability, and ultimately reducing the service life of laser head.

6. When vehicle is running on

rugged roads, violent bumps may likely cause sound to skip.

7. GPS positioning of the vehicle entertainment and navigation system will be affected by weather and location of use (high building/tunnel/subway/woods), and most GPS systems cannot be applied to positioning indoors and in basement, while the signal of GPS can neither pass through the high building and vehicle heat insulation film containing metal ingredient or similar products. Please don't use vehicle heat insulation film containing metal ingredient or similar products on the front windshield.

8. The GPS positioning result of the vehicle entertainment and

navigation system is only for reference of the driver. In the case if any abnormal situation arises, please drive according to the situation of the actual road.

9. The navigation electronic map data provided by the vehicle entertainment and navigation system only give general references, and cannot provide high-precision positioning and plan the path. Voice prompt and road crossing information are the proposed results figured out based on optimal paths according to the database of the electronic map, only for driver reference. Driver must observe the local traffic rules.

10. Keep the volume of voice

indication at a suitable level in the driving process, so that the road and vehicle conditions can be easily understood, to ensure driving safety.

11. Avoid excessive dampness and dust. Don't allow this product to be moistened, which may cause electric shock, fire, or other damages.

12. When interior temperature is very low, don't use the vehicle entertainment and navigation system immediately after heater is turned on, and the discs or the optical parts of the player of this vehicle entertainment and navigation system may likely be frosted. If optical parts of the player are frosted, the frost may naturally disappear, after using the disc

playing function of this vehicle entertainment and navigation system for about one hour, before normal operation is allowed.

13. Normal function will be interfered under particularly high or particularly low temperature. If engine is turned off and the vehicle is parked for a too long time in a place under direct solar radiation or in a cold place, it may likely turn to be very hot or very cold inside the vehicle, and the entertainment and navigation system may possibly work in an abnormal way under such environment. Normal function can be recovered once the interior temperature returns to normal range. Please contact

Haima authorized after service center for examination and maintenance, if recovery fails.

14. If failure with vehicle entertainment and navigation system happens (power supply failed, no image, or no sound) or if the system is under abnormal conditions (extraneous matter inside, water intrusion, smoking, or peculiar smell), please don't privately open the cabinet, disassemble the machine body, or lubricate the rotating parts. It is required to immediately cut off the power supply and contact Haima authorized after service center for examination and maintenance.

15. In the case of occasional down and other situations with

the navigation system, please press the disc-eject key on the panel for more than 5S, and the rest and reboot prompting interface will appear on the navigation system. Click "Cancel" under this interface, reset and reboot operation will be canceled, and if "Cancel" operation is not available, the system will automatically reset and reboot after waiting for 5S (If interface program is abnormal, the system may possibly have no prompting interface, and it will automatically reset and reboot after waiting for 5S.).

16. When vehicle is used for long-distance transportation, battery consumption of the vehicle entertainment and

navigation system is reduced. This vehicle entertainment and navigation system is provided with transportation mode, namely it will automatically enter into deep sleep for a sustained shutdown exceeding 72 hours. The starting time for the first time from deep sleep may likely be relatively long, about 15S~20S. Please wait patiently.

Description about Function

Keys:



(1) Switch-on/off/Volume Adjusting Knob

- Switch-on/off: Under switched-off status, short press to switch on. Under switched-on status, short press to turn off the display screen, and at the same time to turn off all the sound sources.

- Volume Adjusting: Turning the knob clockwise/counterclockwise can increase/decrease the sound volume, and at the same time the status bar for sound volume is displayed in the lower part of the screen.

(2) Reception Presetting Key 1: Repeated Paying Switch (Disc/USD Mode)

(3) Reception Presetting Key 2

(4) Reception Presetting Key

3: Random Playing Switch (Disc/USD Mode)

(5) Reception Presetting Key

4: Previous Catalog (Disc/USD Mode)

(6) Reception Presetting Key 5

(7) Reception Presetting Key 4: Next Catalog (Disc/USD Mode)

(8) Entering into Bluetooth Matching/Hanging off Telephone

(9) Receiving/Making Phone Call

(10) MUTE Key: Under switched-on status, press this key, to activate/exit mute mode.

(11) BND Key: Short press this key, to enter into radio receiving and playing mode, and it switches between FM and AM under radio reception mode.

(12) SRC Key: Short press this

key, to enter into CD/MP3 disc playing mode, and it switches between CD/MP3 disc play and USD play.

(13) Microphone Sound Receiving Port

(14) Backspace Key: Short press this key, to search channel towards low frequency under reception status. Perform previous music operation under CD/MP3 and USB playing status. Long press this key, for fast backward under CD/MP3 and USD playing status

(15) Forward Space Key: Short press this key, to search channel under reception status. Perform next music operation under CD/MP3 and USD playing status. Long press this key, for fast forward under

CD/MP3 and USB playing status

(16) Disc Eject Key: Short press to eject the disc. If disc is not taken off within 10S, the machine will automatically take in the disc out of safety consideration.

(17) NAV Navigation Key: Short press this key, to enter into navigation main menu.

(18) SET Key: Short Press this key, to enter into the setup interface of the main machine.

(19) SD-Card Slot

(20) Disc Inlet/Outlet Port

(21) Display Screen

This screen is in the design of touch screen. Those key patterns with slightly raised and depth impressions are all touch type buttons, hereinafter called

soft key for short. The color turns into dark gray, without cursor display around, when soft key is selected.

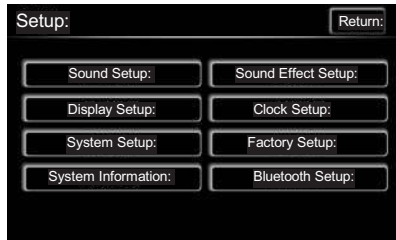
Some keys on the panel are called hard keys for short.

Notice

Never press all the buttons on the device with excessive force, to avoid damage. It is only required to rather gently press them during operation. Please don't use sharp or edged object to touch the touch type screen. It is only required to gently press the screen with finger. Single click the content displayed on the screen, and it indicates this content cannot be called, if it fails to be called.

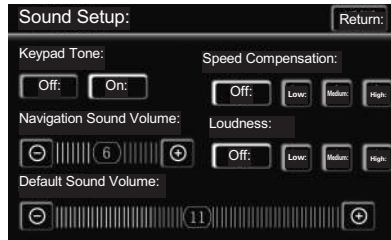
Setup Interface

Press **SET** hard key to enter into the setup menu function for the entertainment/navigation system. User can change the entertainment/navigation system related setups under all the modes.



Sound Setup

Press the "Sound Setup" soft key under the user interface of the setup screen, the key sound, speed compensation, loudness, and default sound volume can be set.



- Display Setup

Press the soft keypad "Display Setup" in the lower part of user interface in the setup screen for automatic or manual setup of screen brightness, and screen turn-off, as well as daytime and nighttime modes. After screen is turned off, it is only required to gently press the screen for it to be re-displayed.



- System Setup

Press the soft keypad "System Setup" in the lower part of the user interface in the setup screen, to enter into the system setup interface, for setups of screen calibration, Chinese and English selection, and flameout switch logic.



- Touch Screen Calibration


When user finds the position of touch screen keypad is displaced, screen re-calibration may be performed. Press "Start" to enter into the calibration procedure. Screen Calibration Procedure:

Click the pen pointer gently but accurately on the center of the cross cursor. When target is moving on the screen, repeat this action.




+ Click the pen pointer gently but accurately on the center of the cross cursor. When target is moving on the screen, repeat this action.


Click the pen pointer gently but accurately on the center of the cross cursor. When target is moving on the screen, repeat this action.



Click the pen pointer gently but accurately on the center of the cross cursor. When target is moving on the screen, repeat this action.



Click the pen pointer gently but accurately on the center of the cross cursor. When target is moving on the screen, repeat this action.



New calibration setup has been determined. Click the screen to register the saved data. Wait for 30 seconds to cancel the saved data and keep the current setup.

Time Limit: 30 Seconds

After calibration is completed, and data is successfully saved, the system will work with new calibration parameter.

Notice: When screen is calibrated, the determination of calibration setup can only be completed, after accurate click on the center point of the cross cursor each time. If click is inaccurate, the system will keep repeating the determination interface.

Press "Chinese/English" soft

keypad to set up the system interface as Chinese or English. Press "Flameout Switch Logic" soft keypad to select on/off of flameout switch logic, and it can be set up as to whether or not the acoustic/navigation system can start up for work or shut down under the state when vehicle is not ignited.

- System Information Press the soft keypad of "System Information" in the lower part of the user interface in the setup screen to examine the machine number and map version information about the acoustic/navigation system.



- **Sound Effect Setup**
Press the soft keypad "Sound Effect Setup" in the lower part of the user interface in the setup screen to enter into the interface for system sound effect setup.



Low Tone

Press "+" soft keypad of the touch screen to gain the low frequency, and press "-" to attenuate the low frequency.

Medium Tone

Press "+" soft keypad of the touch screen to gain the medium frequency, and press "-" to attenuate the medium frequency.

High Tone

Press "+" soft keypad of the touch screen to gain the high frequency, and press "-" soft keypad to attenuate the high frequency.

Equalizer Setup

Entertainment/Navigation system has the preset equalizer mode. Enter into the corresponding equalization

setups by pressing the soft keypads marked in the lower part of the screen such as "Classic", "Rock", "Pop", "Human Sound", "Jazz", and "Individualized". The individualized equalizer allows user to manually change the setups of low tone, medium tone, and high tone, and save the changed setups.

Left/Right Equalization

Adjusting Left/Right Equalization of Audio: Press the "Right" soft keypad on the touch screen for the sound of the left-side loudspeaker to be lower and lower, while press the "Left" soft keypad for the sound of the right-side loudspeaker to be lower and lower. The sound field can be

moved in the direction you have pressed in this way.

Front/Rear Equalization

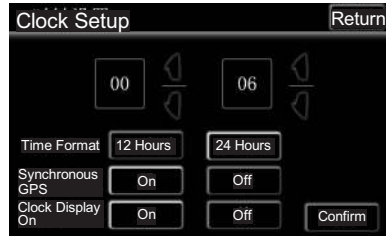
Adjusting Front/Rear

Equalization of Audio: Press the "Rear" soft keypad on the touch screen for the sound of the front loudspeaker to be lower and lower, while press the "Front" soft keypad for the sound of the rear loudspeaker to be lower and lower. The sound field can be moved in the direction you have pressed in this way.

- **Clock Setup**

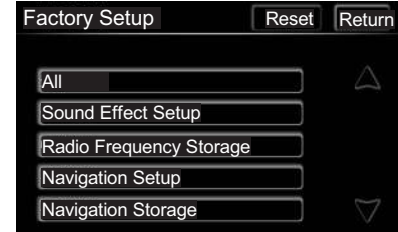
Press the "Clock Setup" soft keypad in the lower part of the user interface in the setup screen for setups of hour, minute, time format,

synchronous GPS, and clock display. If "Synchronous GPS" on is selected, the time is automatically calibrated through receiving GPS time, and time can be manually adjusted when "Synchronous SGP" is off.



- **Factory Setup**

Press the "Factory Setup" soft keypad in the lower part of the user interface in the setup screen for factory setup.



After pressing the corresponding soft keypad for selection of setup option (Press "All" soft keypad if all setups are required), press the "Reset" soft keypad again to recover the corresponding setup option into the factory setup.



Welcome Screen

When system is started, it will display the welcome screen.



Radio Reception



Through pressing "BND" hard keypad, it can enter into Radio FM or AM interface. After radio interface is entered, through pressing "FM" or "AM" soft keypad on the screen, it can switch between FM and AM.



- Preset Frequency
There are six preset frequencies in each sub waveband above, and selection can be made through six resettable keypads in FM/AM screen (This screen includes

resettable key labels.). The currently modulated presetting (if applicable) is highlighted and displayed on the screen of the LCD screen. Just press one resettable presetting key, if it is to be tuned to a preset frequency. If the currently tuned frequency is to be saved into the preset button, press and hold one resettable presetting soft key for more than 2s (A beep sound will be heard to indicate that saving is completed.). Preset frequency is displayed on the LCD screen, and the corresponding resettable key label will turn on accordingly.

- Search

Press the  or  hard keypad, to search the currently tuned (AM or FM) waveband toward low end or toward high end.

- Auto Save

Through pressing "Auto Save" soft keypad on the screen, press the "Update" soft keypad in the interface of radio frequencies list, to perform the operation of auto saving the radio frequency.



- Save Radio Frequencies

Under the status of radio, radio frequency can be saved through the six resettable touch keys on the two sides of the display screen. If the currently tuned radio frequency is to be saved into the storage, press one resettable presetting touch key and hold for more than 2s. The frequency of the save radio frequency is displayed on the display screen, and the corresponding presetting touch key will appear at the same time.

- Storage List

Through pressing the "Storage List" soft keypad on the screen, the list of the currently saved

radio frequencies can be viewed.



- Scan

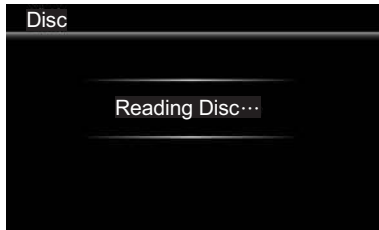
Through pressing the "Scan" soft keypad on the screen, the radio wavebands can be automatically scanned upward or downward.



CD/MP3 Disc Play

Single Disc CD Operation

Insert the CD disc with label facing upward into the slot, and the automatic loading device will locate the CD disc and begin playing. At the same time the system displays the number of songs.



When disc is available inside the CD player, press the **SRC** hard keypad on the panel, select CD as the sound source, it will then begin playing.



- **Play/Pause**

Press **||** soft keypad to execute CD play or pause operation.

- **Previous Music/Next Music**

Short press the **▶▶** soft keypad or the **◀◀** soft keypad to execute the "Next Music" or "Previous Music" operation. Notice: When current music is played for not more than 5s, press **◀◀** soft keypad to execute the "Previous Music"

operation. When current music is played for more than 5s, press **▶▶** soft keypad, to begin play the current music from the beginning.

- **Fast Forward**

Long press the **▶** hard keypad or **▶▶** soft keypad on the panel, the "Playing Time" of the current music being played is quickly increased with the radio when pressed. Long hold this key and release it to stop fast forward, and recover to the normal play speed.


- **Fast Backward**

Long press the **◀** hard keypad or the **◀◀** soft keypad on the panel, the "Playing Time" of the current music

being played is quickly decreased with the radio when pressed. Long hold this key and release it to stop fast backward, and recover to the normal play speed.

- **Repeated Play of Music**
Press the "Repeat" soft keypad or the **1 RPT** hard keypad to switch between repeated music play mode and normal play mode, able for music repetition and folder repetition.
- **Random Play**
Press "Random" soft keypad or **3 RND** hard keypad to switch between random play mode and normal play mode, able for random folder and random whole disc.

- **Scan Music**
Press "Scan" soft keypad to switch between browsing play mode and normal play mode.

- **CD Disc Ejection**
Press the CD disc eject key  on the panel to eject the CD disc.








Single Disc MP3 Operation



Insert the MP3 disc with label facing upward into the slot, and the automatic loading device will locate and disc and begin playing. At the same time the system displays the number of songs, the name of the song, and the information about the main singer.



When MP3 disc is available inside the player, press the **SRC** hard keypad on the panel, select MP3 disc as the sound source, and it will then begin playing.



- Folder Upward/Downward
Press the  and  soft keypads on the screen, or press the **4** and **6** hard keypads, to switch between respective folders in MP3 disc.
- Play/Pause
Press  soft keypad to execute MP3 music play or pause operation.
- Previous Music/Next Music



Short press  soft keypad or  soft keypad to execute MP3 "Next Music" or "Previous Music" operation.

Notice: When current music is played for not more than 5s, press  soft keypad to execute "Previous Music" operation, and when current music is played for more than 5s, press  soft keypad, for the current music to begin playing from the beginning.


- Fast Forward
Long press the  hard keypad or the  soft keypad on the panel, the "Playing Time" of the current music being played is quickly

increased with the radio when pressed. Long hold this key and release it to stop fast forward, and recover to normal play speed.

- Fast Backward


Long press the  hard keypad or the  soft keypad on the panel, the "Playing Time" of the current music being played is quickly decreased with the radio when pressed. Long hold this key and release it to stop fast backward, and recover to normal play speed.

- Repeated Music Play

Press "Repetition" soft keypad or  hard keypad to

switch between the repeated music play mode and normal play mode, able for music repetition and folder repetition.


- Random Play

Press "Random" soft keypad or  hard keypad to switch between random play mode and normal play mode, able for random folder and random whole disc.

- Scan Music

Press "Scan" soft keypad to switch between browsing play mode and normal play mode.

- MP3 Disc Ejection

Press MP3 disc eject key  on the panel, to eject the MP3 disc.

Operation Prompts of CD Player

If it is very cold inside the vehicle, don't use this player immediately after the heater is turned on, and otherwise the disc or the optical parts of the disc player will be fogged on surface, for disc player to be unable for normal operation, as the optical parts (prism and lens) in CD player may likely be fogged and condensate dribble will emerge, called the condensation effect. At this point, the system will automatically eject the CD disc. As to the fogged CD disc, soft cloth is to be used to wipe it up. The fogged optical parts will be naturally dried within 1h. Use

the acoustic unit after system has recovered to normal condition.

Use of CD Player

When CD player is used, please pay attention to following matters concerned: Don't allow any liquid to be splashed onto the acoustic system.

Except CD discs, it is not allowed to insert anything into the CD slot.

As CD disc is rotating at a high speed inside the acoustic unit during operation, it is not allowed to used defected CD discs (present with crack or severe bending or deformation).

Don't use CD discs in non-standard shapes, such as heart shape, or octagonal shape, and otherwise the CD player will be damaged.

The inner hole or the place of the outer margin of the new CD discs may be likely coarse and uneven. Use of such discs may cause inaccurate location, and the CD player/CD replacement player will not be able for normal play. Rub the inner hole or the outer margin of CD disc using ball pen or pencil in advance, thus to rub away the coarse edge angle.

If the driving pavement is uneven, interruption or leap may arise with sound.

It is only allowed for CD discs with identification mark to be

used for this CD player, and it is not allowed to use any other CD discs.

Never touch the signal surface when CD disc is operated, it is required to hold the outer margin or the inner hold of the disc when it is to be replaced. Don't paste paper or adhesive tape on the surface of the disc, to prevent scoring emergence on the reverse side (the side without label).

Dust, handprint, and stain may all reduce the light reflection amount of the signal surface, thus to affect the play effect of the acoustic system. If stain exists on the surface of the CD disc, it is required to use soft cloth to gently wipe it from the middle to around.

When stain is wiped, it is not allowed to use hair spray, antistatic agent or household detergent, nor is it allowed to use volatile chemical reagents, such as light gasoline and diluted material, etc, as all these may damage the surface of the CD disc. Any articles liable to cause damage, bending, or fogging of CD disc shall not be used to clean the stain of the CD disc. Similar to the conventional acoustic recording media, CD discs are made of plastic. CD discs shall be timely put into box and direct irradiation of burning sun shall be avoided. If CD disc is inserted reversely, CD player will automatically eject this disc. If CD disc is

present with stain or defect, the system will automatically eject it as well.

It is only allowed for 12cm discs to be used in this CD player, and please don't use abnormal discs.

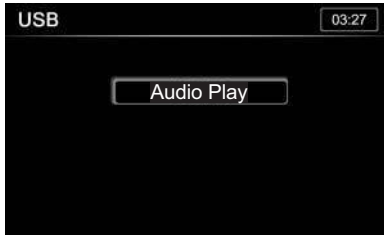
Don't insert the cleaning disc into the CD player.

Reminder

Proper keeping and careful operation may extend the service life of the discs.

USB Play

Insert USB into the USD slot, press the **SRC** hard keypad on the panel, select USD as the sound source, and select audio play, to begin playing.

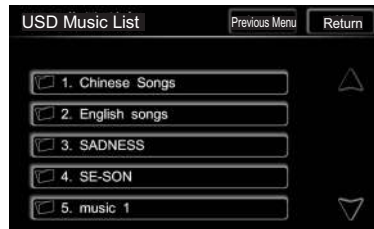


When USD is available inside the player, press the **SRC** hard keypad on the panel and select CD as the sound source, to begin playing, and at the same time the system displays the number of songs.



- Folder Preview

Press the "List" soft keypad on the screen, to preview the folder list. Select folder to play.



- Play/Pause

Press **||** soft keypad to

execute CD play or pause operation.

- Previous Music/Next Music

Short press the **▶▶** soft keypad or the **◀◀** soft keypad to execute CD "Next Music" or "Previous Music" operation.

Notice: When the current music is played for not more than 5s,



press **◀◀** soft keypad to execute "Previous Music" operation, and when current music is played for more than

5s, press **◀◀** soft keypad to begin playing the current music from the beginning.



Long press the **▶▶** hard keypad or the **▶▶** soft

keypad on the panel, the "Playing Time" for the current music being played is quickly increased with the radio when pressed. Long hold this key and release it to stop fast forward, and recover to normal play speed.


- Fast Forward

Long press the  hard keypad or  soft keypad on the panel, the "Playing Time" of the current music being played is quickly increased with the radio when pressed. Long hold this key and release it to stop fast forward, and recover to the normal play speed.


- Fast Backward

Long press the  hard keypad or the  soft keypad on the panel, the "Playing Time" for the current music being played is quickly decreased with the radio when pressed. Long hold this key and release it to stop fast backward, and recover to normal play speed.

- Repeated Music Play

Press "Repetition" soft keypad or  hard keypad to switch between the repeated music play mode and the normal play mode, able for music repetition and folder repetition.

- Random Play

Press "Random" soft keypad or  hard keypad to switch between the random play mode and the normal play mode, able for random folder and random whole disc.

- Scan Music

Press "Scan" soft keypad to switch between browsing play mode and normal play mode.

Navigation System

- Notices/System Performance

1. Due to the individual differences with respective vehicles, when navigation system is used for the initial time, a period of time adaptive to calibration is required, thus for vehicle location to be more accurate. In the driving process, the system will automatically and dynamically perform calibration.

2. When vehicle is restarted after flameout and stop for use for a relatively long time, the time for navigation system to receive GPS signal and re-locate will be longer, and generally speaking, it can be successfully located within 3

minutes in a place with good signal.

3. If it is in the places where screening effect is generated for reception of GPS signal such as high buildings existing on two road sides, big trees existing on roadside, located under the overpass, underground parking lot, or inside tunnel, failure will be caused to receive the GPS signal, and deviation may likely be generated for location at this point.

4. It may likely fail to recognize whether the vehicle is on the road of overpass or on the ground. After a period of time, vehicle will re-locate correctly after road divergence is generated.

5. If vehicle is driving on a driving route parallel with another route in the same direction in rather close distance (such as main and auxiliary roads), the vehicle may likely be located on the other route. After a period of time, the vehicle will be re-located correctly after road divergence is generated.

6. When vehicle is taking a turn, if the speed is relatively fast, or it is not driving on the middle position of the road, slightly lagged location or leap may likely be aroused. If there is an auxiliary road on the road after taking the turn, it may possibly be located onto the auxiliary road. After a period of time, the vehicle will relocate

correctly after road divergence is generated. Keep driving at a rather low uniform speed when a turn is taken, and such problems can be reduced.

7. In order to avoid excessive invalid voices, there is no voice prompt on certain road, if there is no fork road or the difference in grade from fork road is too obvious for this turning point.

8. When a turn is taken, if there is any other parallel road in the same direction beside the road turned into, then the voice will prompt "Now please take the xth crossing to turn to y", to help the vehicle select correct road to be turned in. One case liable for such happening is the auxiliary road, and at this point the prompt will take the


auxiliary road as a crossing.

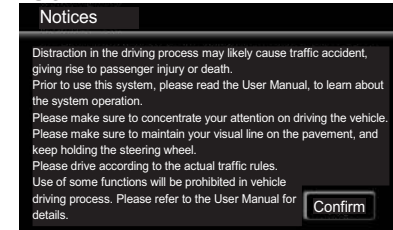
9. Under the situations of route calculation, address input, language switch, switch of daytime/nighttime mode, and POI search, as well as disc ejecting and loading operations, relatively more system resources are required and it is required to wait for a period of time before the operation is completed. It is recommended that user avoid ignition or interface switch, etc when these operations are being performed, and otherwise the system stability will be affected, and it may likely cause system to restarted when it is serious.

10. User shall not paste heat insulating film or similar products containing metal

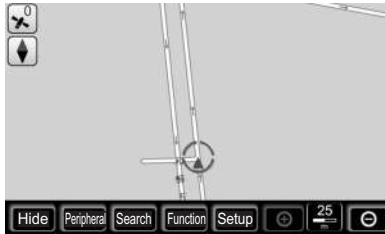
composition on the front windshield, and otherwise it may affect the reception of GPS signal. Under the condition when there is no GPS satellite signal, system is unable to judge the vehicle position.

- Navigation System User Interface Description


Press the  hard keypad, the system enters into the interface of Notices, and user press the soft keypad "Confirm".







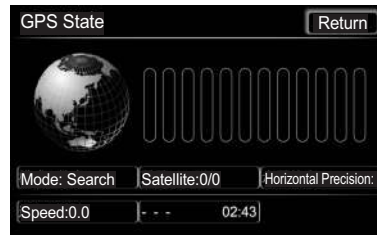
In several seconds, it enters into the main navigation interface of the Entertainment/Navigation System.



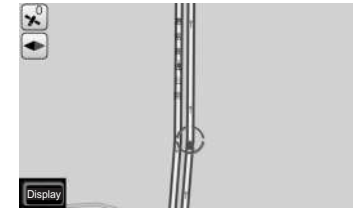
Details about navigation functions can be obtained from the following chapters and sections.

When map is examined, user can touch the displayed area, to move the map pictures in the way of dragging.  displays the direction of the compass. At


the same time, press this soft keypad to switch among the three modes of the map facing the north , vehicle head facing , and bird's eye view map .  is the status icon of the GPS system. It serves as the display for GPS search status. Press this soft keypad at the same time to enter into the GPS status interface.




"Hide" Soft Keypad: The navigation system soft keypad can be hidden using this switch. The picture after hiding is as follows:



Click the "Display" soft keypad, if it is required to display the navigation system soft keypad. Display Current Scale

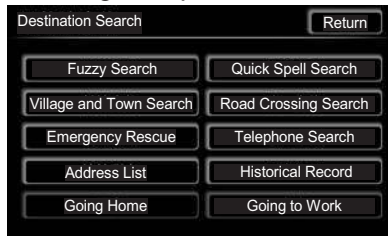
 Soft Keypad: This switch can be used to zoom in the map display.

 Soft Keypad: This switch can be used to zoom out the map display.

"Peripheral" Soft Keypad:
Quick search the peripheral places within a range of 2-16km by types.



"Search" Soft Keypad: Able to search destination through following multiple methods.



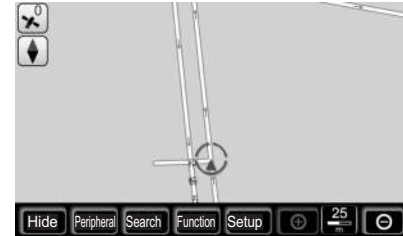
"Function" Soft Keypad: Enter into the detailed list of navigation functions.



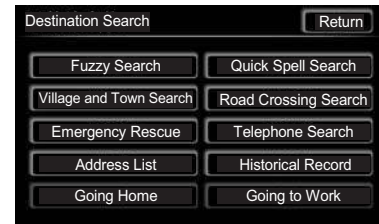
"Setup" Soft Keypad: Enter into the navigation option setup mode. Able to set up map automatic zoom in/out, navigation prompt window, navigation voice, display type, and route selecting method.



- New Destination



Press the soft keypad in the main navigation interface to enter into the destination search interface, to select the search method.



- Fuzzy Search

Select fuzzy search to enter into the search interface.



Enter into province and city according to the province position on the middle position in the upper row.



If province is incompliant, click **Previous Menu** to enter into province selection.



Click the "Key Word" option in the left upper part after entering into the province selecting interface, such as input of "G", the provinces with initial letter of G in Pinyin will appear. Select Guangdong Province.



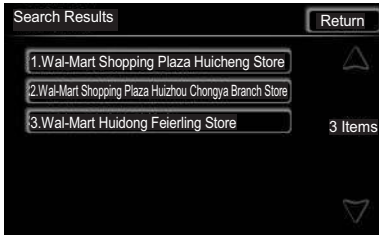
Enter into city selection after province is selected. Click the **Key Word** option in the left upper part. The input method can be selected to switch to handwriting, to switch to Pinyin, and to switch to letters. For example, if "HZ" is entered in the case of letter input, the city-level administrative areas with Pinyin HZ as the abbreviation will appear. Select Huizhou City.



Input key work for search according to **Previous Menu**, and if input error happens, it can be deleted. If the name is relatively long and it's not easy to remember the full name, space can be used in the middle as a replacement for search, as in the case of "Dongguan Cultural and Sports Square", "Dongguan_Square" can be entered for search.



The addresses compliant with the condition will appear in the list of the research results. Select the address.

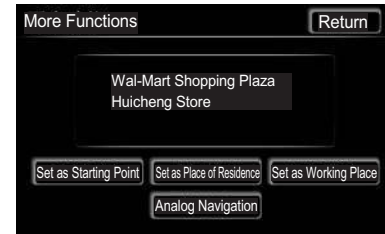


Select the address into the navigation map interface, and icons are available in the

navigation interface for operation.



Select **More** soft keypad, to be set as starting point, set as residential place, set as working place, and analog navigation.



Select **Previous Menu** soft keypad, to save the selected address into the address list. Press telephone number soft keypad to input telephone number, and click confirm for successful saving.



Select **Previous** and **Next** to examine the map information about Wal-Mart Shopping Plaza Huizhou Branch Store and Wal-Mart Huidong Feierling Store which have just been found through search in compliance with the condition.

+ and **-** Soft Keypads: These switches can be used to zoom in and zoom out the map display.



Select **Details** soft keypad, to

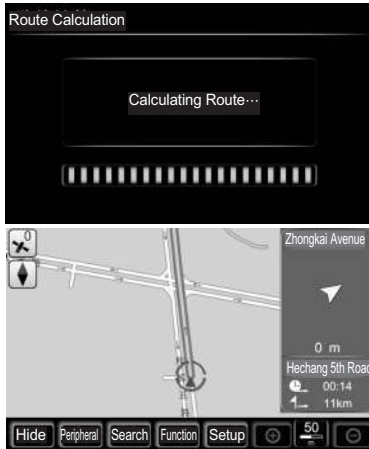
examine the detailed information about the selected destination.



Select **Return** soft keypad, to return to the interface of search results.



Select **Navigation** soft keypad, to calculate the route and begin navigation.



In the interface of map site selection, use finger to drag the map, in cooperation with "Zoom in" and "Zoom out" soft keypads, press **Search** soft keypad

to complete map site selection and return to the current place where the vehicle is located.

Quick Spell Search

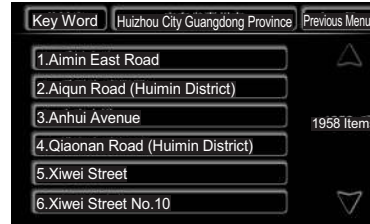
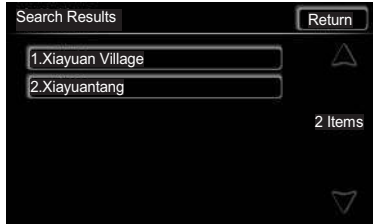
Quick spell search supports initial spelling search with key word. After province and city-level area are properly selected, click the key word, input "WEM" and press the **Search** soft keypad, the search result will appear.



Village and Town Search

Able to support search for village-level destination After province and city-level area are properly selected, input village name, press the **Search** soft keypad, and the search result will appear.





Road Crossing Search

It is able to support the search with road name as the destination. After province and city-level area are properly selected, click the key word and input the road name in letters "YD", the search result will appear. Press **Confirm** soft keypad, and select the middle address in the upper part to begin navigation.



Emergency Rescue

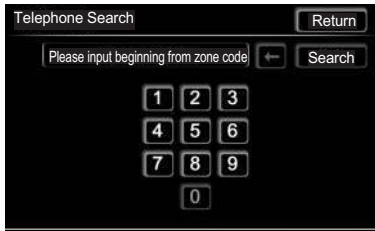
Search medical treatment and public security organs during emergency.





Telephone Search

Search address through telephone number.



Address List

Enter into the saved address list to search destination.

Historical Record

Record the previously navigated destinations. Able to select the previous navigated address as destination, and the destination can also be deleted.



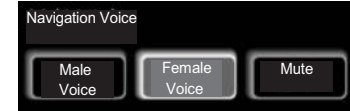
Setup Menu


Press the **Setup** soft keypad in the menu of the main navigation interface: Enter into the navigation option setup mode. Able to set up map automatic zoom-in/out, navigation prompt window, navigation voice, display type, and route selecting method.

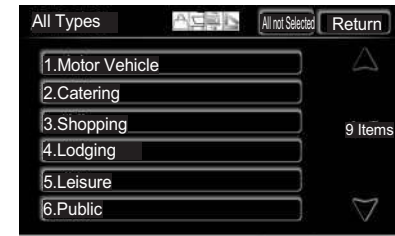


On and Off can be selected for map automatic zoom in/out. On and off can be selected for navigation prompt window, and the navigation prompt window

is displayed on the right-side position of the map in the process of navigation, as follows:



Press **Display Type** soft keypad, five types in which can be selected in 9 types of information, and these five selected interest points will be displayed on the map. IF shopping is selected,  icon will appear in the interface. After selection is completed, press the "Return" touch key. After returning to the main navigation interface, the selected interest points will appear in the picture of the navigation map.





Press **Route Method** soft keypad, and time priority, distance priority, and recommended route can be selected for route options. Allowable to pass expressway/forbidden to pass expressway, allowable to pass ferry/forbidden to pass ferry, allowable to pass toll highway/forbidden to pass toll highway

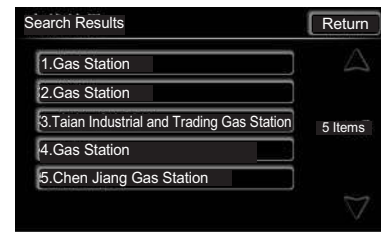
highway, and allowable to pass tunnel/forbidden to pass tunnel can be selected, among route limit options.

Peripheral Interest Point Search

In the main navigation interface, press the **Previous Menu** soft keypad, to enter into the interface for selection of interest points. It is able to search information about related interest points within a peripheral range of 2~16km.



If "Gas Station" is selected, it enters into the list of the interest points.



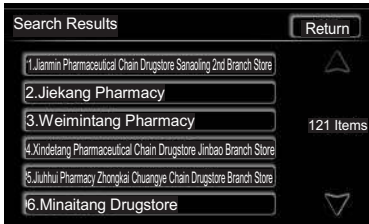
If "Snack" is selected, it enters into the list of interest points.



If "Supermarket" is selected, it enters into the list of the interest points.



If "Drugstore" is selected, it enters into the list of the interest points.



If "Guest House/Hotel" is selected, it enters into the list of the interest points.



If "Scenic Spot" is selected, it enters into the list of the interest points.



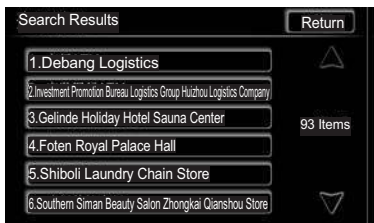
If "Parking Lot" is selected, it enters into the list of the interest points.



If "Bank" is selected, it enters into the list of the interest points.



If "Life Service" is selected, it enters into the list of the interest points.



If "Company" is selected, it enters into the list of the interest points.



Navigation Function Setup

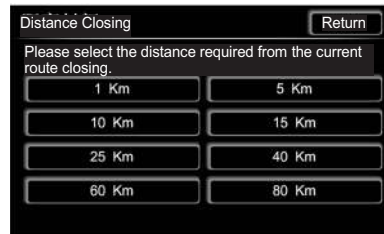
Press the **Function** soft keypad in the main navigation interface to enter into the navigation function setup interface.



Select the trip planning, to set up the starting place and the destination, and set up the passing-by localities on the way.



Press analog navigation and navigation soft keypads, to search to what road the closure is implemented and for how long the distance is from the trip when prompt is required to begin.



Bluetooth Function

Haima vehicle bluetooth hands-free system, through wireless connection with bluetooth mobile phone, is able to achieve hands-free phone communication and play of bluetooth stereo sound music through vehicle acoustic system.

- Achieve unobstructed wireless hands-free phone communication, through bluetooth connection.
- Support making phone call for unanswered incoming call, making phone call for answered incoming call, and re-dialing function.
- Private Mode/Hands-Free Mode Switch
- Microphone Mute/Cancel Mute Switch
- Touch Screen Display and Operation
- *Synchronous Download and Browse of Mobile Phone Address Book*

- Management of Bluetooth Equipment
- Making Phone Call through Touch Screen
- Additional Functions
- *Play of Mobile Phone Bluetooth Music through Vehicle Acoustic System
- *Prompt of New Short Message*
- *Reminder of Mobile Phone Low Battery

User Guide

Prior to use of this system, please firstly complete the match and connection between the bluetooth mobile phone and the hands-free system. The system is able to match with 6 bluetooth mobile phones, but only one mobile phone can be connected with the bluetooth system at the current moment. After the bluetooth mobile phone has been matched and connected with the hands-free system, the system will save the ID of the mobile phone.

When vehicle is started or the system is turned on next time, the system will try to automatically connect with the mobile phone that has been connected for the last time. If this mobile phone is not available or its bluetooth is under the turned-off status, the system will successively search forward the mobile phones that have been matched. Once the connection is successful, there will be voice prompt: <Such and Such> connection completed. After connection is established, phone communication can be performed through the vehicle acoustic system and the vehicle microphone. Please refer to the Section of <Bluetooth Setup Interface> for specific matching process.

Note: Realization of bluetooth hands-free function requires your mobile phone to support HFP (Hands-Free Profile) bluetooth application profiles. The achievement of bluetooth stereo music requires

your mobile phone to support A2DP/AVRCP bluetooth application profiles. The process for establishment of bluetooth connection may vary due to the difference in mobile phone manufacturers. Please refer to mobile phone user guide to get more information.

The effective connection range of bluetooth is about 10m, and you can turn off the bluetooth on your mobile phone after getting off the vehicle to save the battery power. Turn on the bluetooth again on the mobile phone when you get on the vehicle next time.

As to mobile phones of certain models, after bluetooth connection is established, the keypad sound of the mobile phone will be transmitted through bluetooth. IF you do not want to hear the button sound in the interior acoustic sound, it is recommended that you turn off the keypad sound. When hands-free

phone communication is going on or mobile phone bluetooth music is being played, FM, CD, and other audios will not be played out through the vehicle acoustic system, until the phone communication is completed or the play of bluetooth music is stopped.

Microphone is installed on the navigation panel, and when hands-free phone communication is being used or voice command is being sent out, you can observe ahead, and maintain normal driving posture. When voice identification function is used, please give command after a beep sound is heard. In order to increase the voice identification rate, please keep quiet inside the vehicle, and give out command, at normal speaking speed, with clear articulation.

Bluetooth Operation Match and Connection of Bluetooth Equipment

for new bluetooth mobile phone to be matched, please short press the



hard keypad, to enter into the bluetooth interface. Follow the steps below for operation:

1. Enter into the match list, and activate the bluetooth: Set your mobile phone device under search status. Please input 0000 if password is required.
2. When mobile phone has completed search, it will remind you of selecting device for match. Please select "HaimaS3". Password input window is displayed on the mobile phone.
3. Input password at the end of the mobile phone: 0000.
4. This System Prompts: Bluetooth match completed, please give nickname to bluetooth device. The system is able to match with 8 bluetooth mobile phones, but

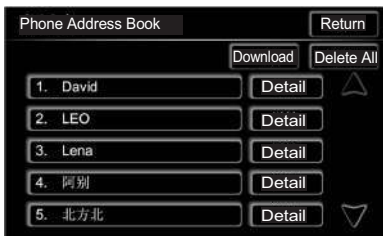
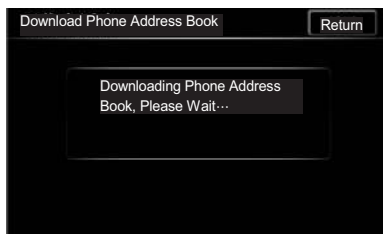
connection for only one mobile phone can be established with the bluetooth system at the current moment. When the pairing limit of 8 mobile phones is reached, please delete the device not to be used in the setup menu, if new mobile phone shall be matched.



Download Phone Address Book in Mobile Phone

IF your mobile phone supports the bluetooth phone address book download protocol, after the connected has been established between the mobile phone and the vehicle bluetooth hands-free system, the address book in your mobile phone will be automatically

downloaded into the bluetooth hands-free system.



Receiving Phone Call

Under the status when host navigation unit is turned on, (and bluetooth hands-free connection has been established between your mobile phone and the bluetooth

system), when there is an incoming call, the incoming call ring or the incoming call number will be played out through the interior acoustic system, and at the same time the number of the incoming call will be displayed on screen. You can select receive the call or hang-up, to receive or refuse the incoming call.

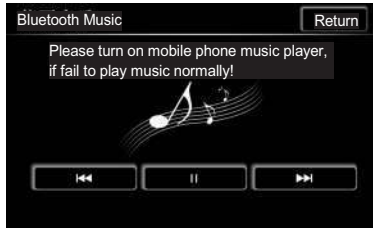
Making Phone Call

Enter into the dialing interface, dial the required number, and switch on the keypad, under the status when host navigation unit is turned on (and bluetooth hands-free connection has been established between your mobile phone and the bluetooth system).



Bluetooth Music

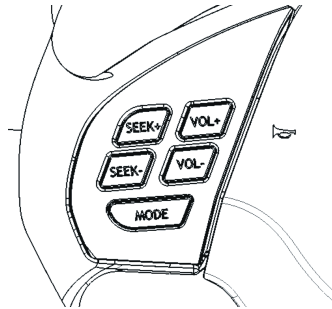
If your mobile phone supports A2DP/AVRCP bluetooth music profiles, after the bluetooth connection has been successfully established with the vehicle bluetooth hands-free system, this indicates that the music in your bluetooth mobile phone can be played through the vehicle acoustic system.



You are able to control the play of bluetooth music through previous music, next music, play/pause touch keys on the screen. When bluetooth music is played, if there is any incoming hands-free call, the bluetooth music will automatically pause or stop.

Acoustic Sound Control Switch (Optional)

The acoustic control switch on the left side of the steering wheel can be used for basic operation and control over the acoustic system with two configurations of "Single Disc CD/Radio" and "CD/Navigation".



- Volume Control
Press "VOL+" and "VOL-" to increase/attenuate sound volumes.
- Search Radio
Frequency/Change Music

Press "SEEK+" and "SEEK-" to execute the radio frequency search operation under radio mode, and previous music/next music operation under USD mode.

- Mode Switch
Press "MODE" to achieve switch between FM, AM, CD, and other modes.

Constant Speed Cruise System

I. Cruise Control System Overview

- Control switch instead of the operation of throttle pedal is used for cruise control system to set up the driving speed, and it is able to allow vehicle to drive at the constant speed.
- Engine ECU controls the throttle valve actuator, to keep the vehicle driving at the constant driving speed.

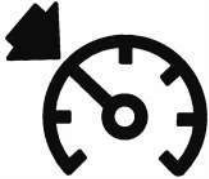
II. Constant Speed Cruise Keypads

There are four cruise control switches respectively as ON/OFF, CANCEL, SET/-, and RES/+, uniformly distributed on the right side of the steering wheel.



III. Constant Speed Cruise Indicator Symbol

This indicator light is in the yellow color when cruise control system enters into standby status, and the indicator light is in the yellow color when cruise control system enters into cruise status.



IV. Constant Speed Cruise Function Description

1. Cruise Main Switch Signal - Only when switch ON/OFF is switched on, it is allowed for cruise. At this point, it can enter into the cruise status through operation of other cruise switches to setup up cruise driving speed.
2. Cruise Setup/Deceleration Switch Signal
3. Similar to cruise setup/deceleration

Switch SET/- has three functions. The first kind of function is to set up the current driving speed as the cruise driving speed. When main cruise switch is turned on, and the driving speed is higher than 25km/h, if no condition (such as pushing down brake pedal, etc) is available at this point giving rise to cruise exit, it can enter into the cruise status when this switch is turned on, and the vehicle will maintain the current driving speed. The second kind of function is deceleration at point press. When vehicle is already under the cruise status, the target cruise driving speed will slow down by 2km/h for each point press of this switch . The third kind of function is deceleration at long press. When vehicle is already under the cruise status, if this switch is pressed for a long time, the driving speed required for cruise will keep being slowed down.

switch signal, switch RES/+ has three kinds of functions. The first kind of function is to recover the cruise status. When main cruise switch is turned on, and the driving speed is higher than 25km/h, if no condition (such as pushing down the brake pedal, etc) is available at this point giving rise to cruise exit, it can recover the cruise status when this switch is turned on, and the target vehicle cruise driving speed will be automatically set as the cruise driving speed of the previous time. The second kind of function is acceleration at point press, and the target cruise driving speed will be accelerated by 2km/h for each point press of this switch. The third kind of function is acceleration at long press. When vehicle is already under the cruise status, the driving speed required for cruise will keep being accelerated when this switch is pressed for a long time.

Cruise Temporary Cancel Switch Signal

4. When vehicle is under the cruise status, press the switch CANCEL, the cruise control system will then enter into the standby status (the current driving speed automatically saved).

5. In the cruise control period, the operating status is as follows:

- In the cruise control period, if brake pedal is pushed down, the cruise control system will exit from the standby status.
- In the cruise control period, if throttle pedal is pushed down, the driving speed will step up, and after the throttle pedal is released, the driving speed will slow down, to resume the previous cruise status.
- In the cruise control period, if gear beside D gear, the cruise control system will cancel the previous cruise status.
- In the cruise control period, if switch CANCEL is pressed, the cruise control system will exit from the cruise status and enter into standby status.
- In the cruise control period, if main cruise switch ON/OFF is pressed, the cruise control system will exit from the cruise status, and the current cruise driving speed stored in ECU will not be saved.
- Currently saved cruise driving speed after flameout will not be saved (namely the cruise driving speed save in the system after flameout each time will be automatically cleared, and it shall be reset after being started next time before it can be used.).
- If cruise driving speed is to be re-set, the cruise driving speeds

saved before will be removed, and the newly set driving speed will be saved.

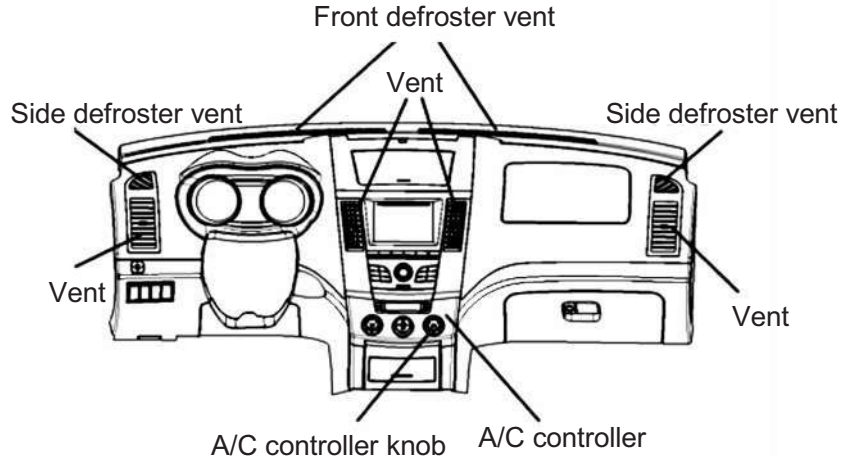
A/C system

The interior temperature can be adjusted by A/C system setting of the introduced model to ensure comfort and health.

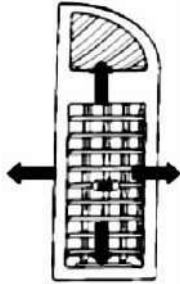
Types of the climate control system

- Electronically controlled, manual type climate control system
 - Fully automatic climate control system
- Check your vehicle's climate control system type first and then refer to the corresponding sections of this manual.

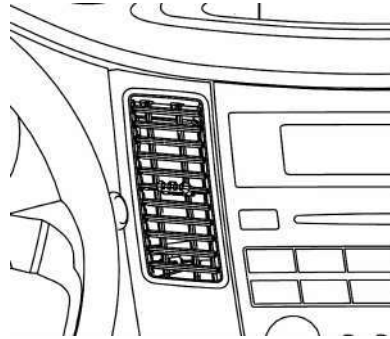
Directing airflow Dashboard vents



Directing airflow from vents



The direction of airflow from a vent is adjustable. To adjust the direction and amount of airflow from the vent, move the adjustment knob up and down or left and right. To close the vent, move the knob inward to its extreme position; to open the vent, move the knob outward.



The direction of airflow from center vents is adjustable. The vents can also be opened or closed. To perform the above adjustment, move the button up and down or left and right. The defroster vents on the front windshield and front door windows can not be adjusted.







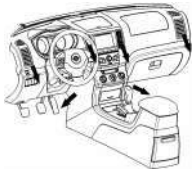
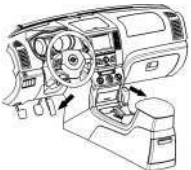
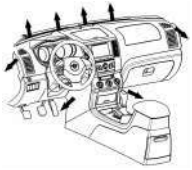
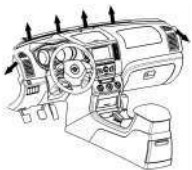
Operating the climate control system

In the use of A/C system, attention should be paid to the following items:

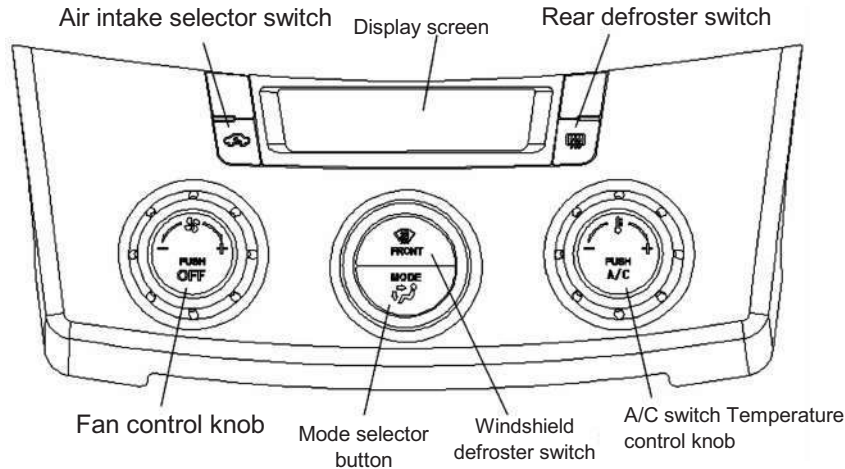
- The A/C system should be operated during the engine running;
- Under normal circumstances, the intake source should be set to the "Outer Circulation" mode. Only when the car drives on the dusty and smoky section of the road or in the situation that the fast cooling/heating is required, that the "Inner Circulation" mode can be set.
- When the exterior temperature is lower, the glazing can be cleaned by AC demister.

Selecting the airflow mode

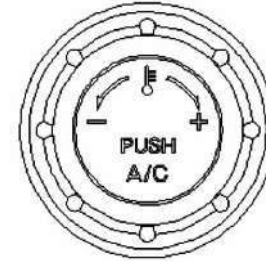
There are 5 airflow modes available. You can select any of them by pressing the corresponding mode selector button as needed.

Function	Face	Face & foot	Foot	Face & windshield defrost	Windshield defrost
Mode					
Airflow					


Electric type air conditioner



A/C switch/temperature control knob



Depress the A/C switch with the engine started, the climate control system will start to operate. Then, the snowflake icon on the display screen will illuminate.

Depress the  A/C switch again, the climate control system will turn off. Then, the snowflake icon on the display screen will go out.

The temperature control knob outside the A/C button is used to adjust the temperature at the outlet of the airflow:

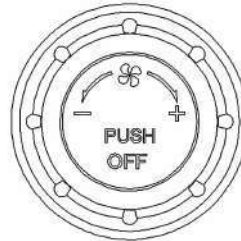
Turn it clockwise to increase temperature;

Turn it counterclockwise to decrease temperature.

Tip

By controlling the inside temperature properly, you can provide the driver and occupants with a healthy, harmonious, and favorable environment so that they can have a comfortable, pleasant, and good time on the road.

Fan control knob



This knob is used to turn on/off the fan and to control air intake by adjusting fan speed.

By turning the knob clockwise, you can increase the air intake gradually up to the maximum level.

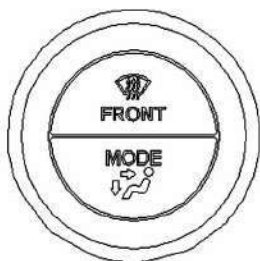
By turning the knob counterclockwise, you can decrease the air intake gradually until the fan is turned off.

OFF button

You can also turn off the system by depressing the OFF button. System status with the OFF button depressed:

- 1) Save A/C air output, mode, and temperature data;
- 2) Enter outside air mode;
- 3) Turn off A/C blower;
- 4) Enter Face mode if the system is in Defrost mode before turned off;
- 5) Turn off display pattern on display screen;
- 6) Turn off back light of screen.


Windshield defrost/mode selector button



The upper button is the windshield defrost button. The lower mode button can be used to select airflow mode. Vent mode varies automatically with key changes. When you turn on the system for the first time, its default is Face mode. After a user presses the mode key, the mode door will switch vent modes in the following order: Face, Face & Foot, Foot, and Foot & Defrost.

Air intake selector switch



This switch controls the source of air entering the vehicle. The default of the system is "outside air mode", i.e.  (the pattern displayed on the display screen). Then, outside air is taken into the vehicle and the indicator light of the switch does not illuminate.

When this switch is depressed, the system will switch to "recirculated air mode", i.e.



(the pattern displayed on the display screen), and the indicator light of the switch will come on.

When the switch is depressed again, the system will switch to "outside air mode", at the same time, the indicator light will go out.



"Recirculated air mode" is mostly used when driving on a dusty road, to avoid smog caused by traffic, or to provide quicker cooling/heating of the interior.

Caution

Using "recirculated air mode" in cold weather will cause the windows to fog up. The driver's visibility will be affected and even a serious accident may result. Therefore, it is recommended that you do not use "recirculated air mode" in cold weather.


Ventilation

The function is applied when it is necessary to introduce the external air into the inside through grid.

- The air intake mode of system is set to "Internal Air Loop" by default, i.e. the internal air loop when the air intake option switch is not turned on. If you need external air blows in to car through grille, please press air intake selector switch, to make the display show the signal of .
- Set the mode selector button to the  position.
- Set the temperature control knob to the desired position.
- Set the fan control knob to the desired position.


Heating

To increase inside temperature in cold weather, use this function.

- Set the mode selector button to the  position.
- Set the temperature control knob to the desired position.
- Set the fan control knob to the desired position.
- If heating with dehumidifying function is required, please turn on the air-conditioning system.

Heating and anti-fogging


This function is used to prevent windshield fogging during interior heating.


- Use the "Internal Air Loop", the air intake mode of the system by default, you need to press air intake selector switch to change it into external air loop mode.
- Set the mode selector button to the  position.
- Set the fan control knob to the desired position.
- Set the temperature control knob to the desired position.

Defog and demist

The function is used when the glazing is fogged and frosted.

- Set the mode selector

button to the  position. When rear windshield defrost function is required,

depress the  button.

- Set the temperature control knob to the desired position.
- Set the fan control knob to the desired position.

For quick defogging, you can turn on the air-conditioning system.

Cooling

The function is used when to decrease inner temperature is required in hot weather.

- Set the mode selector

button to the  position.

- Set the temperature control knob to the desired position.
- Set the fan control knob to the desired position.
- Turn on the air-conditioning system.
- Adjust the fan control knob and temperature control knob as needed in order to ensure the optimum comfort.

Economic usage of cooling device


During the cooling, the compressor consumes the power and increases fuel consumption. To minimize the operating time, attention should be paid to the following points:

- When the car exposes to the strong sunshine, the temperature inside is very high, the windows or doors can be opened for short time so to let the warm air out;
- When the car is driving, do not turn on the A/C device if the doors, windows or domer are opened;

- When the desired internal temperature can be reached without turning on the cooling system, the A/C system should be turned off.

Dehumidification

Use this function to decrease the temperature inside. The function used in cooler or colder weather can be helpful to increase the demist effect of windshield and side windows.

- Set the mode selector button to the desired position.
- Set the air intake selector key to the  position.

Set the temperature control knob to the desired position.

- Set the fan control knob to the desired position.
- Turn on the A/C system.

Some instruction

- When the external temperature and humidity are high, the condensed drops of condenser will drip down and form the droplets underneath the car. This is normal instead of leakage signal.
- To avoid water condensation on glass surfaces, always set the fan control knob to a low position and the mode

selector button to the



position when the vehicle is running at low speed.

- If the A/C device hasn't been running for longtime, some deposits will be formed on the evaporator due to the environmental factors and there will be some odor when it is restarted. Therefore, even in the coldest season, the A/C device should start at least once a month. When starting, the fan should be turned to the maximum gear, while the windows should be opened for a short time.

- The A/C thermal efficiency is associated with engine coolant temperature, thus, the A/C can achieve the best effect only after the engine temperature becomes normal.
- In order to ensure the operation effect of the heating, ventilation and A/C equipment, the ice and leaves and other debris on the front panel grid (inlet in front of windshield) should be always removed.
- Inside air is discharged from the air vent (blinded by rear bumper) on the rear lower outboard part of the body. Therefore, this air vent can not be blocked.

Tip

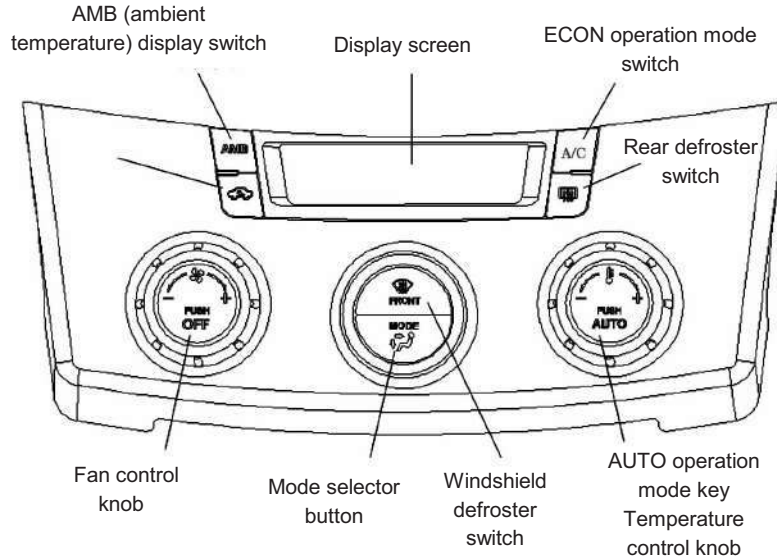
When using the A/C on a long slope or by the traffic jam, special attention should be paid to the coolant temperature, try to avoid the engine overheating.

Failure of operation

If the cooling device cannot work, it may be caused by the following reasons:

- The external temperature approaches 0°C;
- The fuse burns out;
- The temperature of engine coolant is too high; the cooling device is automatically turned off. If the efficiency of cooling device decreases, it should be shut down and inspected. Please consult the Haima Automobile Sales Service Shop.

Automatic type air conditioner (optional)

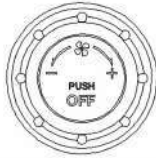


Brief introduction of the automatic type air conditioner

The automatic type air conditioner features that its air output, vent mode, air intake method, air-conditioning control, etc. will be selected automatically after the inside temperature is set.

After the AUTO key is depressed, the system will enter the automatic mode. To cancel the automatic function, you can depress the mode selector button, depress the AUTO button again, or depress the defrost button.

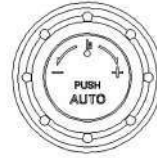
OFF button/fan control knob




The outside knob can be used to adjust amount of air intake manually. By turning the knob clockwise, you can increase the air intake gradually up to the maximum level. By turning the knob counterclockwise, you can decrease the air intake gradually until the fan is turned off.

The center OFF button can be used to turn off the system. System status with this button depressed: Turn off A/C, blower, and display screen.

AUTO key/temperature control knob



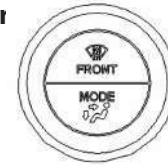
Depress the AUTO button, the AUTO icon on the display screen will illuminate. 

The system enters the automatic climate control mode. It controls the air output and operation mode automatically according to the set temperature.

The temperature control knob outside the AUTO button is used to set the inside temperature. Turn it clockwise to increase the set temperature

and counterclockwise to decrease the set temperature. At the same time, the set temperature value will be displayed on the display screen.

Windshield defrost/ mode selector



The upper button is the windshield defrost button. The lower mode button can be used to select airflow mode. Vent mode varies automatically with key changes. When you turn on the system for the first time, its default is Face mode.


After a user presses the mode key, the mode door will switch vent modes in the following order: Face, Face & Foot, Foot, and Foot & Defrost.

the system for the first time, its default is Face mode. After a user presses the mode key, the mode door will switch vent modes in the following order: Face, Face & Foot, Foot, and Foot & Defrost.

Air intake selector switch



This switch controls the source of air entering the vehicle. The default of the system is "outside

air mode", i.e.  (the pattern displayed on the display screen). Then, outside air is taken into the vehicle and the indicator light of the switch does not illuminate.

When this switch is depressed, the system will switch to "recirculated air mode", i.e.



(the pattern displayed on the display screen), and the indicator light of the switch comes on.

When the switch is depressed again, the system will switch to "outside air mode", at the same time, the indicator light will go out.

AMB (ambient temperature) display switch



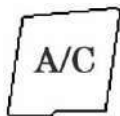
Depress the AMB button, the numeric portion on the screen will display the outside temperature value and the AMB symbol will illuminate.

Tip

The ambient temperature display may differ from the actual ambient temperature depending on the surroundings and vehicle conditions.

After the AMB button is depressed again, the system will switch from ambient temperature to air-conditioning temperature.

A/C ECON switch



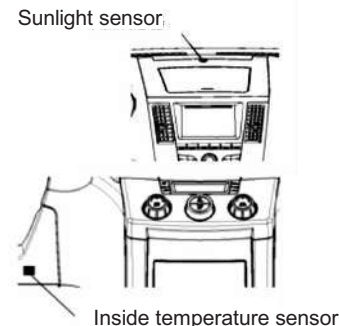
After the A/C key is depressed in A/C auto mode, the AUTO icon on the display screen disappears, the ECON icon illuminates, and the snowflake icon remains illuminated. This mode is suitable for springs and autumns and requires lower fuel consumption than auto mode.

When the A/C key is depressed again, the snowflake icon disappears and the ECON icon remains illuminated. Then the compressor turns off and the system adjusts air outlet


temperature by means of engine coolant temperature and outside air temperature. This mode is suitable for winters and requires lower fuel consumption.

Sunlight/temperature sensor

The automatic climate control system can detect inside temperature and outside ambient temperature, and sunlight. It then sets inside temperature accordingly. To ensure that the automatic climate control system operates effectively, please do not obstruct the sunlight sensor.



Defrosting and defogging

After the windshield defrost button  is selected, then the climate control system turns on automatically and blows the dehumidified air to the front windshield and side windows.

Automatic air conditioner operation

After the AUTO button or the ECON key is depressed, the system will enter automatic control mode. Then, air output, mode and circulation are automatically controlled according to the existing circumstances and the display screen will show the word

"AUTO" or "ECON". 

- Select and set the temperature control knob

to the desired temperature.

- To turn off the system, you can either turn the fan control knob counterclockwise to its extreme position or depress the OFF button.

Precautions for use of an automatic air conditioner

- Set the temperature to 25°C first and then adjust to the desired temperature.
- Setting the temperature to the highest or lowest position can not accelerate its change rate.
- If you turn on the heater immediately after the engine is started in winter,

cold air will be blown out.

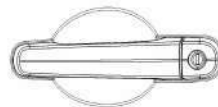
Therefore, you should set the air output to the lowest position and then increase it when warm air starts to enter.

Inner/outer accessories

Door outer handle

The outside handles on the vehicles of this series feature an outward opening construction.

Use the key or remote controller to undo the door lock. Pull the door outer handle to open the door.

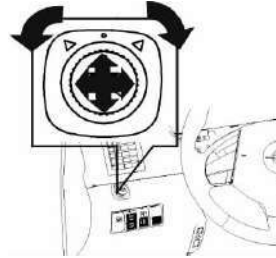


Outside rear-view mirror

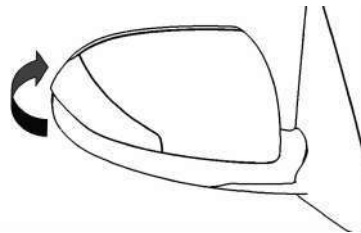
When the ignition switch is on the position ACC or ON, the rear-view mirrors can be electrically controlled.

First identify the rear-view mirror to be adjusted, next turn the selector switch lever to the corresponding direction to select the rear-view mirror to be adjusted (turn left to select the left rear-view mirror and right to select the right rear-view mirror), and then move the lever up and down, left and right to adjust the angle of the rear-view mirror lens.

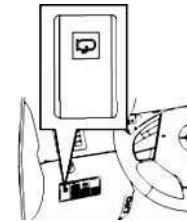
After the adjustment is completed, turn the switch lever to its middle position. Then, the rear-view mirror is locked in the current position.



If the outside mirrors are interfered by other obstructions, they may be folded backward manually.



To fold a power folding outside rear-view mirror (optional), depress the fold switch to allow automatic folding. Depress the switch again, the rear-view mirror will return to its original position.



Caution

After outside rear-view mirrors are folded, the driver will not be able to observe the rear of the vehicle through the mirrors. Therefore, do not drive your vehicle with its rear-view mirrors folded.

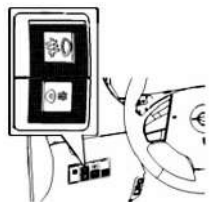
Each outside rear-view mirror is equipped with an electric heating defroster of which the usage is the same as that of a rear window defroster.

Precautions for use of rear-view mirrors

- When ice or hard objects hamper motion of a rear-view mirror, do not force-adjust the mirror.
- If a rear-view mirror surface is freezing, do not scrape ice from its lens directly so as to avoid damage to the lens.

Front and rear fog light switches

Use this switch to turn on or off the front fog lamp. With the front fog lamp turned on, you may see clearly the front traffic condition in fog weather, and allow the drivers to see your car who drive on the opposite side of the road.



First turn on the front position lights, and then turn on the front fog lights by depressing the front fog light switch. To turn off

the lights, press the front fog light switch again or turn off the front position light switch.

Located below the front fog light switch, the rear fog light switch can be used to turn on or off the rear fog lights.

The rear fog lamp can be applied in fogging weather, to allow the vehicles behind you to easily see your car.

To turn on the rear fog lights, you must turn on the front position lights first, next the front fog lights, and then the rear fog lights; to turn off the lights, press the rear fog light switch again or turn off the front position lights.

Reverse Auxiliary System

Reverse auxiliary system has two different types, including:

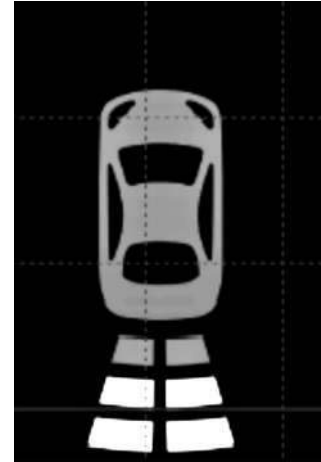
- Reverse Radar System
- Reverse Image System (Optional)

Prior to reading this section, please firstly confirm the type of the reverse auxiliary system on the vehicle, before reading the relevant part of this manual.

Reverse Radar System

On the vehicle type where reverse radar system is equipped, when you engage into the reverse gear, the reverse radar system will give out a long "swoosh" if it is working normally, and afterwards the reverse radar will automatically detect the barrier

behind the vehicle and sent out "swooshing" prompt sound, the closer the barrier is away from the vehicle, the more hurried the sound is, while the barrier is too close to the vehicle, the prompt sound turns into a long swoosh. At this point, please stop reversing the vehicle, to avoid accident. Besides, you can also more visually understand the distance between the barrier behind and your beloved vehicle through the anti-glare inside rearview mirror (please firstly confirm that your vehicle is equipped with automatic anti-glare inside rearview mirror).



Reverse image system

On the vehicle provided with reverse image system, when you engage into the reverse gear, and turn on the acoustic system, the image behind the vehicle will automatically appear on the acoustic display screen, and added with related auxiliary information, such as the width line and the distance caution line, etc of the vehicle. The distance caution line is divided into green, yellow, and red three colors, and when barrier reaches the red area, please stop reversing the vehicle, to avoid accident.

Reminder

No matter your beloved vehicle is equipped with reverse auxiliary system or reverse image system, when you engage into the reverse gear and are going to reverse the vehicle, the image will switch into the mute status, to avoid interference into your reversal. When reversal is completed, the sound will resume normal condition.

Tire Pressure Monitoring System (TPMS)

Tire pressure monitoring system has two different types, including:

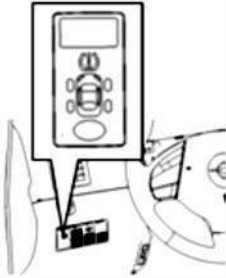
- Independent Tire Pressure Host Unit (Optional)
- Tire Pressure Host Unit Integrated inside the Anti-Glare Inside Rearview Mirror (Optional)

Prior to reaching this section, please firstly confirm the type of the tire pressure monitoring system on the vehicle, before reading the relevant part of this manual.

Independent Tire Pressure Host System

Description about Functions

1. Self-Check



When ignition switch is turned from OFF to ACC position, the LED display turns on for 1S and the buzzer beeps for one time. At an interval of 2S, the tire LED lights turn on successively and the LED lights display the pressure values of the left front,

right front, right rear, and left rear tires at the same time. After display for 1 cycle, all the LED lights turn off, indicating that the pressure is normal.

Notice

The information displayed for self check is the memory information for the previous time when ACC ON is switched to OFF.

2. Tire High Pressure Alarm
When tire pressure is larger than 310KPa, the LED light for this tire turns on in red color, the TPMS warning light turns on in yellow color, the buzzer beeps and the pressure value at this point is displayed. The

buzzer turns off after 3 cycles, and beep can be canceled if TPMS key is pressed in the beeping process. At this point the LED still keeps on, until tire pressure is recovered to normal condition.

Example: Left Rear Tire Over Pressure Alarm



3. Tire Low Pressure Alarm

When tire pressure is less than 170KPa (including 170KPa), the LED for this tire turns on in red color, the TPMS warning light turns on in yellow color, the buzzer beeps and the pressure value at this point is displayed. The buzzer turns off after 3 cycles, and the beep can be canceled if MODE key is pressed in the beeping process. At this point LED still keeps on, until the tire pressure is recovered to normal condition.

Example: Right Front Tire Low Pressure Alarm



red color. TPMS warning light turns on in yellow color and flashes for 60S, to be constantly on then. It alarms in the following situations as without signal: sensor present with failure, interfered by electromagnetic wave, or sensor not activated or not installed.

Example: Right Rear Wheel without Alarm Signal

4. Without Receiving Signal Alarm

When vehicle is under the operation status, if the host unit still does not receive the signal of the sensor within 13 minutes, the buzzer beeps for one time and then turns off, while at the same time the LED display shows "-", and the tire corresponding LED turns on in



5. Under Pressure Alarm

When vehicle is under operation status, if tire pressure is at 180KPa - 190KPa and lasts for 13 minutes, the buzzer beeps for one time and turns off. LED for this tire flashes for 5 times, to be constantly on then, and display the pressure value until the tire pressure is recovered to normal condition.
Example: Left Rear Tire Under Pressure Early Alarm



6. When abnormal condition is generated for two (or more than two) tires, buzzer beeps, and at the same time the tire LED lights will successively display the pressure values of left front, right front, right rear, and left rear abnormal tires at an interval of 2S, until the failure is removed.

7. Fast Air Leakage Alarm

When vehicle is under operation status, when the pressure of one or multiple tires of the tires is dropping at a speed rate larger than 30-35KPa/min, the tire pressure host unit will send out the fast air leakage alarm signal within 1 minute, the buzzer beeps for 5 times and turns off, and at the same time the pressure value

at this point is displayed. If pressure does not drop, or the pressure rises through continuous detection of 1 minute, the fast air leakage alarm is canceled. If pressure drops to 170KPa, the tire LED is constantly on in red color, and the buzzer beeps again for one time and turns off.





Notice

If it is the alarm status before ACC is turned from ON to ACC, the alarm information will be stored, and after the system is powered on for self-check again, the alarm continues. If tire is recovered to normal vehicle operation status, the sensor will send data update, and alarm will then be canceled.

Dash backlight adjustment

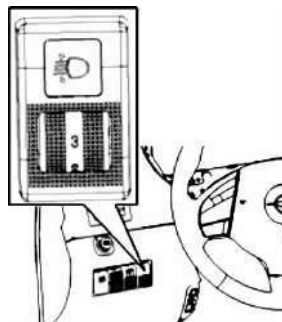
The dash backlight dimmer switch is located on the dashboard at the left side below the steering wheel.



With the left lever of the combination switch turned to the  or  position, you can adjust the brightness of the dash light and center console light by turning the dimmer knob.

Headlight leveling (optional)

The headlight leveling switch can adjust the height of the headlight low beam. It has total 4 positions available. You can adjust the height of the low beam to an appropriate position according to vehicle load or road conditions.

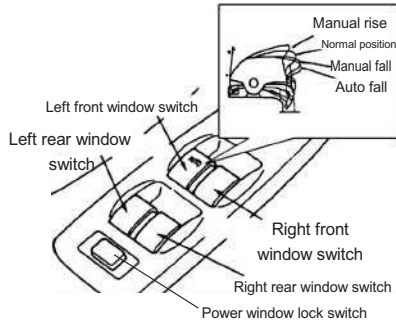


Power window

The door windows on the vehicles of this series are power driven. After turning the ignition switch to the ON position, you can raise or lower any window. Every power control switch is on each corresponding door handle.

After depressing this switch, you can open the corresponding window. The window will stop when you release the switch during window falling. Pull up the window switch to close the windows.

- Power window master control switch



The power window master control switch is located on the driver's door armrest. To open any passenger side window, depress the corresponding switch until the windows falls to the desired position. To close the window, pull up the switch until the window rises to the desired position, then release.

When the engine is shut down or the engine ignition switch is turned to the ACC or LOCK position from the ON position, you can operate the driver side power window for another 40 seconds.

To fully open the driver side window, depress the window switch a little harder and then release. The window will drop to the bottom automatically. To stop the window halfway without allowing it to fully open, you can pull up the window switch briefly.

Caution

Do not leave your key and any unattended child in the vehicle alone so as to prevent the child from operating the power window switch unintentionally which could result in an accident.

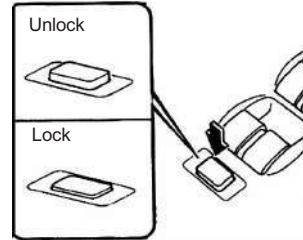
Jam-safe power window (optional): To fully close the driver side window, pull up the window switch a little harder and release, then the window will rise to the top automatically. To stop the window halfway without allowing it to fully close, you can depress the window switch briefly. To open or close the driver side window, lightly depress or pull

up the window switch. The window will stop when you release the switch.

Tip

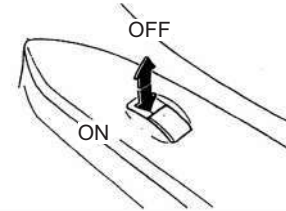
In order to protect the electrical system, do not open or close more than 2 windows at the same time.

- Power window lock switch
With the lock switch in the unlocked position, all power windows on each door can be operated. With the lock switch in the locked position, only the driver side power window can be operated.

**Caution**

If any child rides in the vehicle, please lock the power window lock switch to prevent the child from operating door windows unintentionally.

- Passenger side power window switch



With the ignition switch in the ON position, depress the window switch to open the window of this door and pull up the switch to close it.

Caution

Do not reach any part of your body out of the vehicle when any window glass is opened. Reaching out of your vehicle when the vehicle is moving is extremely dangerous.

- Jam-safe power window (optional)
This function is only available on the driver side door.

Jam-safe function: If a door window is blocked by an obstruction during the auto closing operation, the window will stop and then move down. To close the window, remove the obstruction, and then operate the window switch again.

When the driver side window is about to fully close, the jam-safe function fails.

Therefore, make sure no foreign objects block the glass just before the window reaches the fully closed position.

Trunk light

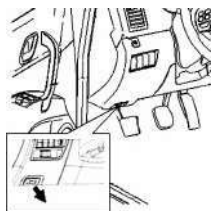
With the light switch ON, the trunk light will come on as the liftgate is opened and go out as it is closed.

Opening the hood

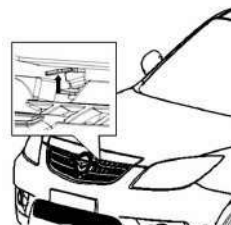
The hood release handle is located on the dashboard at the left side below the steering wheel.

Follow the procedure below to open the hood:

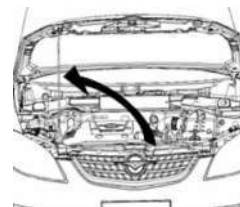
1. Pull the release handle on the dashboard to unlock the hood.



2. In front of the vehicle, after moving up the latch lever under the hood, you can lift the hood.



3. Support the hood securely with the support rod.



Before closing the hood, please make sure that the support rod is secured, all filler caps in the engine compartment are in place, and all foreign objects have been removed. After closing the hood, please make sure it has been locked.



Opening the fuel-filler cap

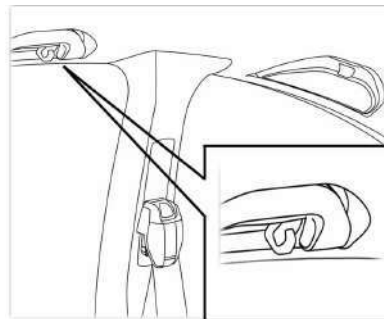
The open handle of filler cap is located inside the doorsill at down front left of the driver seat.

Pull up the open handle to open the filler cap at left behind the body.

To close up, cover the filler cap from outside the body.

Auxiliary handle

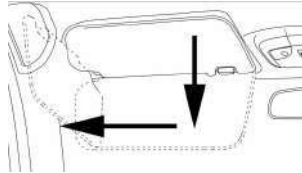
An assist grip is mounted above each passenger seat. The coat hooks on the assist grips can be used to hang light clothes. Passengers can use them when necessary.



Tip

For safety of occupants, please do not hang heavy objects on the assist grips and hooks.

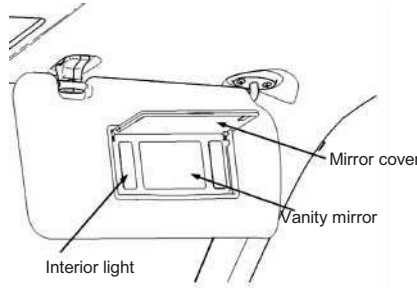
Sun visor



When you need a sun visor, pull it down by hand simply. Alternatively, you can take it out from its intermediate base and then push it to the side for use. The driver side sun visor comes with a bill fold on its face.

Tip

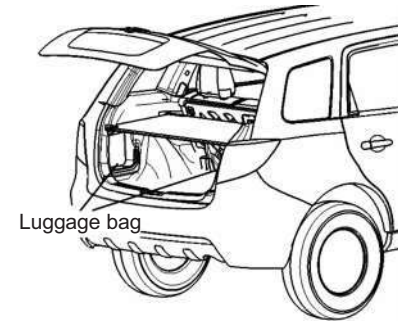
To ensure the proper fit between the sun visors and the roof and the safety of the occupants, please do not place heavy objects in the bill fold.



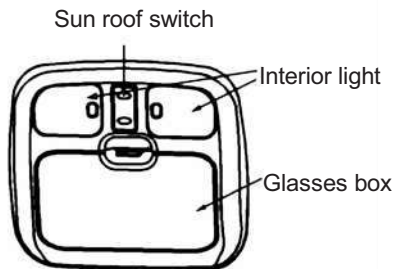
You can use the vanity mirror behind the sun visor after opening the mirror cover. Vanity mirror with light (optional): The light comes on when the mirror cover is about 20° open and automatically goes out after the cover is fastened.

Luggage bags

One mesh bag is set on each side of the trunk for placement of the articles with a total weight below 3.5kg.



Sun roof (optional)



The sun roof can be operated with the ignition switch in the ON position.

The sun roof control switch is located on the panel of the front interior lights.

Sun roof opening and closing:

To open the sun roof, lightly press the rear end of the

control key and the sun roof will open automatically. To close the sun roof, press the front end of the control key and hold until the sun roof fully closes; if you release the key during the closing operation halfway, the sun roof will stop.

Sun roof ventilation:

With the sun roof closed, press the front end of the control key and hold until the rear of the sun roof tilts up to open the vent. By lightly pressing the rear end of the control key, you can close the vent and return the sun roof to the closed position.

If the battery is not connected, not charged, or replaced with a new one, you need to open the

sun roof to the ventilation position first before resetting it.

Tip

After washing your vehicle or when operating the sun roof after rain, wipe the sun roof clean first.

If you open and close the sun roof repeatedly, the sun roof motor may heat up. Then the sun roof will pause for 45 seconds to allow the motor to cool down.

Please do not attempt to open the sun roof in an environment below zero or snow-covered place. Otherwise, the rails, motor, seals, etc. of the sun roof will be damaged.

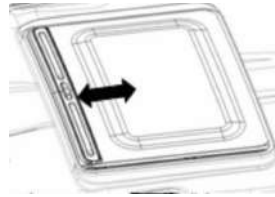
Caution

It is extremely dangerous to allow any occupant to stand up or reach any part of his/her body out of the sun roof while the vehicle is moving. Keep occupants away from the sun roof when it is closing so as to avoid being pinched.

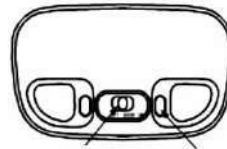
Sunshade (optional)

The sunshade opens automatically when the sun roof is opened, but must be closed by hand.

After the sun roof is closed, you can open or close the sunshade by hand.



Rear interior lights



Interior light mode switch Interior light mode switch

The rear interior lights are equipped with a set of three-position switch. When the ignition switch is in the ACC or ON position and the interior light mode switch is in the OFF

position, the lights do not illuminate. When the interior light mode switch is in the DOOR position, the lights will illuminate if any door is opened. After all doors have been closed, the lights go out gradually. When the interior light mode switch is in the ON position, the lights will constantly illuminate. When the switch is in the DOOR position, the following controls over the lights are allowed:

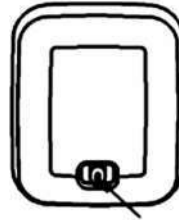
- When locking with transmitter or manual locking function is used, the lights illuminate for 30 seconds and then go out.
- When unlocking with transmitter or manual

unlocking function is used, the lights illuminate for 15 seconds and then go out immediately.

- When all doors have been properly closed and the ignition switch is in the "ON" position, the lights go out immediately.
- If any door is not properly closed, the lights constantly illuminate.

You can also turn on the corresponding interior light by depressing the interior light switch separately.

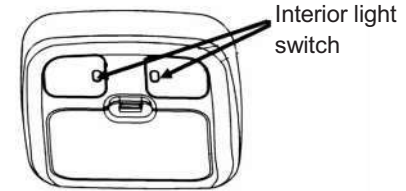
Rear interior lights (optional for models with sun roof)



Interior light mode switch

The functions and methods of operation of these interior lights are the same as those of the interior lights above.

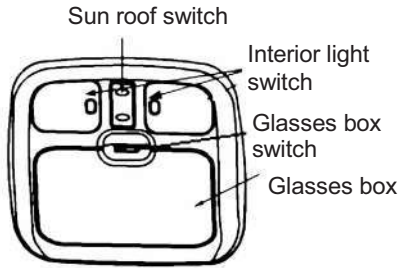
Front interior lights



Interior light switch

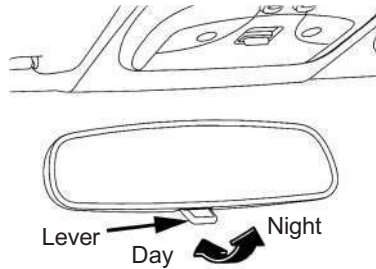
By depressing the front interior light switch on either side, you can turn on/off the lights on the corresponding side.

Front interior lights (optional)



By depressing the front interior light switch on either side, you can turn on/off the lights on the corresponding side.

Inside rear-view mirror



The inside rear-view mirror has a dimming function which is available in day and night positions respectively. During day driving, you should set the inside rear-view mirror dimming lever to the day position; during night driving, you should set the inside rear-view mirror dimming lever to the night position.

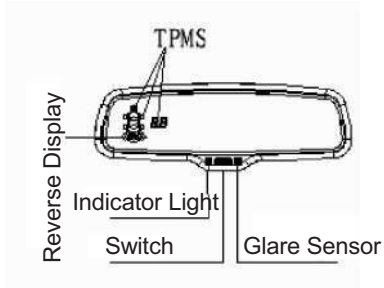
Before driving, adjust the inside rear-view mirror properly so that the image through the rear window is in the middle position.

For driving safety and clear vision of the driver, please keep the inside and outside rear-view mirrors clean.

Inside Rearview Mirror (Electronic)

Located on the rear windshield, the rear window defroster can clear frost, mist and thin ice from the rear window by means of electric heating.

The electric heating defroster of the outside rear-view mirror can clear frost, fog, and thin ice from the outside rear-view mirror lens.



The inside rearview mirror carries electronic anti-glare function. When vehicle is under operation status, and if it is detected by the sensor as the nighttime condition or dark environment, the intelligent electronic anti-glare function works. The glare sensor searches and detects the glare of the behind vehicle. The inside rearview mirror carries reverse display function. Driver can observe the reverse LED display and the actual reflected image at the same time, to quickly recognize the potential danger for reversal to be safer. After igniter is turned on, when gear position is turned to R gear, the system will automatically check whether or

not the sensor is working normally, and the display will automatically scan for one time during check. The buzzer "BI" beeps for one time when sensor is working normally. The sensor will perform self check when it is abnormal, the display will automatically scan for one time, the buzzers "BI, BI, BI" will beep for three times, and at the same time display the fault graph.

Sensing Distance:

Located on the rear windshield, the rear window defroster can clear frost, mist and thin ice from the rear window by means of electric heating.

The electric heating defroster of the outside rear-view mirror can clear frost, fog, and thin ice from the outside rear-view mirror lens.

1. When the distance between the sensed object and the left middle or right middle sensor is larger than 90 ± 5 cm, the buzzer will stop beeping.
2. When the distance between the sensed object and the left or right sensor is larger than 60 ± 5 cm, the buzzer will stop beeping.

The inside rearview mirror carries TPMS function, to monitor the tire pressure (Optional).

Self Check: When ignition switch is turned from OFF to IGN position, LED display turns on in red right for 1S, green light for 1S, and the buzzer beeps for one time. At an interval of 2S, the tire LED lights turn on successively and at the same time LED2 section display shows the pressure values of the 4 tires. All the LED light turns off after display for one cycle, indicating that pressure is normal.

- When tire pressure is larger than 310KPa (including 310KPa) or less than 170KPa (including 170KPa), the LED

light for this tire turns on, the buzzer beeps, and the pressure value at this point is displayed. The buzzer turns off after beeping for 3 cycles, and beep can be canceled if [Switch Key] is pressed in the beeping process, but LED still keeps on, until tire pressure is recovered to normal condition.

- When vehicle is under operation status, and the host unit still does not receive the signal of the sensor within 13 minutes, the buzzer beeps for one time and turns off, and at the same time "-" is displayed in LED2 section, while the tire corresponding LED turns on. It alarms in the following situations without signal: sensor present with failure, interfered

by electromagnetic wave, and sensor not activated or not installed.

When voltage of sensor battery is less than 2.1V (including 2.1V), the buzzer beeps for 5 times and turns off, and at the same time LED2 section display shows "b", while the corresponding tire LED turns on.

When vehicle is running, tire pressure is at 180KPa to 190KPa and lasts for 13minutes, the buzzer beeps for one time and turns off, the LED for this tire flashes for 5 times to be turned on, and display the pressure value until the tire pressure is recovered to normal condition.

When vehicle is under operation status, when pressure of one or multiple tires of the tires is

dropping at a speed rate larger than 30KPa to 35KPa, TPMS sends out fast air leakage alarm signal within 1 minute, the buzzer beeps for 5 times and turns off, and at the same time the pressure value at this point is displayed.

Notices:

- (1) If it is the alarm status before IGN is turned from ON to OFF, the reported information will be stored, and the alarm continues, after the system is powered on for self check.
- (2) After various alarms are displayed for 2m, the display will automatically turn dark, while the display will be recovered to normal condition

if search key is pressed or it alarms again. Before running, the inside rearview mirror shall be properly adjusted, for the image through the rear vehicle window to be located on the middle position. In order to ensure driving safety and allow driver to be availed with a clear visual field, please keep clean the inside rearview mirror and the outside rearview mirror.

Reminder

In order to prevent the visual field of the inside rearview mirror from being blocked to affect driving safety, the height for placement of luggage, and mixed cargo shall never exceed the backrest of the rear-row seat.

**Rear window defroster/
rear-view mirror defroster**

Located on the rear windshield, the rear window defroster can clear frost, mist and thin ice from the rear window by means of electric heating.

The electric heating defroster of the outside rear-view mirror can clear frost, fog, and thin ice from the outside rear-view mirror lens.

Tip

The defroster can not be used to thaw thick snow. If snow is found on the rear window or rear-view mirror lens, sweep it in advance before using the defroster.

When using the rear window defroster and rear-view mirror defroster, you need to set the ignition switch to the ON position first.

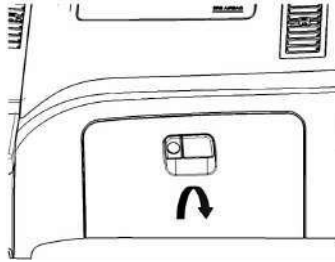
Depressing the defroster switch (see "Climate Control System") can turn on the rear window defroster and rear-view mirror defroster simultaneously. At the same time, the indicator light comes on.

Depressing the switch again can turn off the rear window defroster and rear-view mirror defroster.

Caution

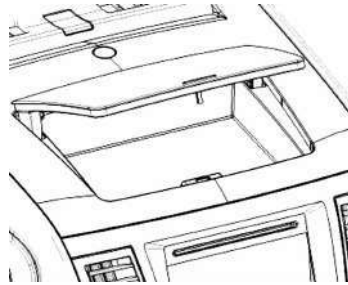
Do not use sharp tools or window cleansers with abrasives to clean the inside of the rear window glass. Otherwise, the heating resistance wire of the rear defroster may be damaged.

Glove Box



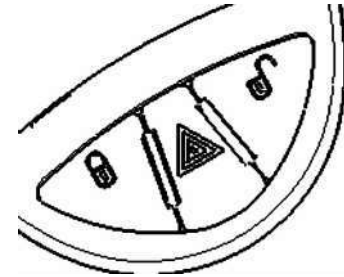
Glove box is equipped with locking mechanism, able for locking or unlocking using vehicle key. It is locked when turned clockwise, and unlocked when turned counterclockwise. After it is unlocked, pull the handle backward to open the glove box.

Instrument Panel Storage Box



Storage box able for placement of articles is installed in the center of the instrument panel. Gently press the raised guide bar in the middle, the cover of the storage box will slowly eject out, and the occupant can easily put in or take out articles. Afterwards the box cover can be gently pressed to be closed.

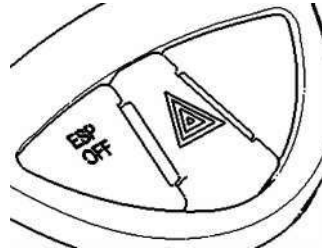
Central Switch (Applicable to ABS Configuration Vehicle Type)



The central switch is located behind the gearshift handle, and the two switches on the left and right are the electric door lock switches, to achieve 4-door unlocking and locking function. The middle switch is the danger warning light, to be used together with the triangle

warning board when caution is given to vehicles coming from ahead or behind, as well as for parking with failure. Press the switch for danger warning light, all the turn signal lights will flash at the same time. This button can also be operated when ignition switch is under the turned-off status.

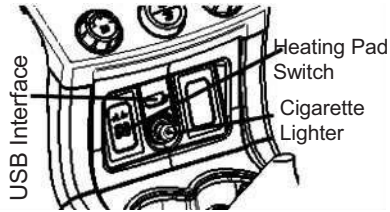
Central Switch (Applicable to ESP Configuration Vehicle Type)



The central switch is located behind the gearshift handle, and the switch on the left side is the ESP OFF switch, used to turn off the ESP function. In the middle is the switch for danger warning light, to be used together with the triangle warning board when caution is given to the coming vehicles from ahead or behind, as well

as for parking with failure. Press the switch for danger warning light, all the turn signal lights will flash at the same time. This button can also be operated when ignition switch is under turned-off status. On the right side is the standby hole cover, functionless.

Cigarette Lighter/USB Interface/Electric Heating Seat Switch



Cigarette lighter is located on the panel of the glove box, and when ignition switch is located on ACC and ON positions, the cigarette light is able to work. When cigarette lighter is used, just press it. When it is heated to be able for use, it will automatically eject out. The switch for heating pad is used to control the seat electric heating performance, with five

gear positions available for adjustment. USB interface can be used, when its block lid is lifted open.

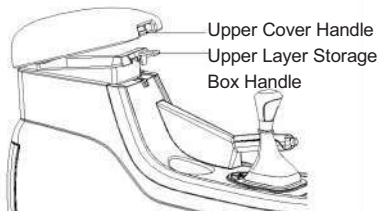
Don't use the socket of cigarette light as power source for other electrical devices (such as elective shaver or coffer maker, etc), and otherwise the socket will be damaged or failure of electrical appliance will be caused. Only cigarette lighter originally equipped with the vehicle can be used.

Ashtray is located in the lower part of the cigarette light, and it can be used when cover is opened. Please close the cover after use, to prevent overflow of ash to give rise to fire.

Notice

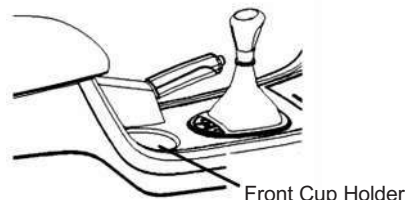
Avoid holding the cigarette lighter unreleased, and otherwise the cigarette light will be overheated. If cigarette light fails to eject out within 30S, it is required to pull it out to avoid overheating.

Central Storage Box



Press the upper cover handle upward to lift open the upper cover for the handrail, while press the handle of the upper-layer storage box upward to lift open the upper-layer storage box. User can place articles of different sizes respectively according to the different requirements for the storage space.

Front Cup Holder

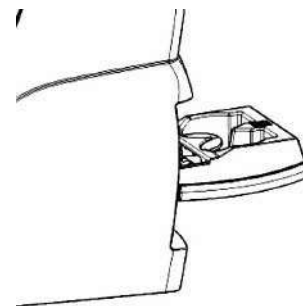


Front cup holder is located before and behind the gearshift handle, able to place water cup or beverage.

Notice

In the running process, don't place hot beverage on the cup holder, to avoid spill of liquid to scald the occupant.

Rear Cup Holder

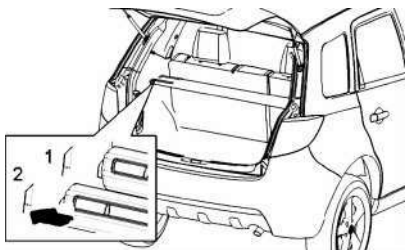


Two cup holders are set in the rear-end part of the body of the auxiliary instrument panel. Auxiliary instrument panel Just pull the rear-end cover to the horizontal level for them it to be used as cup holders, when used.

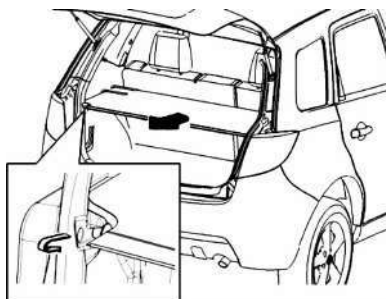
Roller blind (optional)

The trunk is complete with a roller blind inside. Follow the procedure below to use the roller blind.

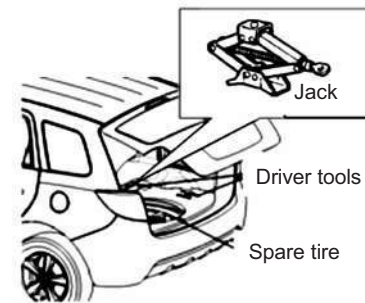
1. You can install the blind to the position 1 or 2 according to the location of the rear seats and the number of pieces of the luggage.



2. Slowly pull out the blind and insert the hook.



When retracting the roller blind, do the job slowly in the opposite direction of pulling it out.

Tool kit/jack

The driver tools and jack are placed under the trunk mat. You can access them after lifting the trunk mat open.

Spare-tire

All spare tires used on the models of this series are full size spare tires which can be used as spare parts.

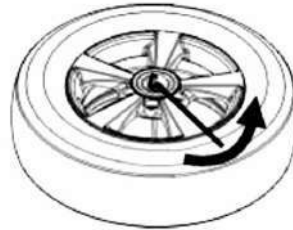
Please use the spare tire properly according to the requirements below:

Inspect the spare tire at least monthly to ensure it is properly inflated (210kPa). It is forbidden to use this spare tire on other vehicle models.

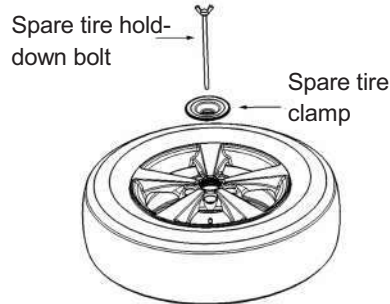
Spare tire access procedure:

- Take out the trunk mat.
- Turn the spare tire hold-down bolt counterclockwise. The jack crank can be of help.

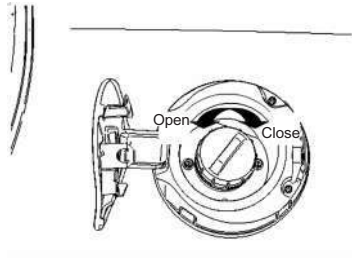
Secure the spare tire in the reverse order of removal.



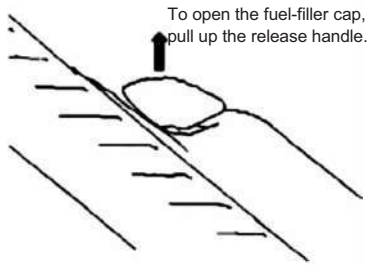
- Remove the spare tire hold-down bolt and clamp in turn, and then take out the spare tire.



Fuel-filler cap



The fuel-filler cap release handle is located on lower left part of the driver's seat.



- Pull up the fuel-filler cap release handle.
- Open the filler cap.
- To remove the fuel-filler cap from the filler pipe, turn it counterclockwise.
- To reinstall the filler cap, please turn it clockwise. When click sounds are heard, it indicates that the cap has been locked. The air pressure in the fuel tank is greater than the ambient pressure because of fuel evaporation. If you open the fuel-filler cap too quickly, fuel may splash out. You must pay attention to this. Therefore, loosen the fuel-filler cap a little first when opening it to allow

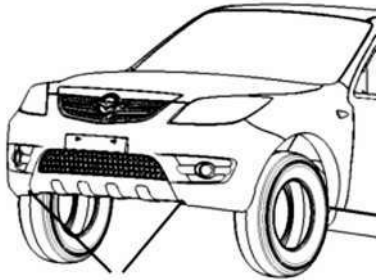
fuel gas to spill out slowly from the gap produced after the loosening. Wait until a balance is reached between the internal and external pressures, and then fully open the cap.

Front/rear hauling hook

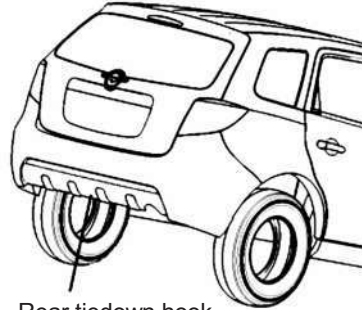
Two tiedown hooks are set on the front of your vehicle and one tiedown hook is set at the center on the rear of the vehicle.

When the vehicle is transported, you can secure it to the transport vehicle or ship through the front and rear tiedown hooks.

In case of emergency, the front/rear hooks may be used for self-rescue or mutual aids with others.



Front tiedown hook



Rear tiedown hook

Caution

When a vehicle equipped with CVT or AT transmission is towed, keep its front wheels off the ground.

Luggage Racks

The luggage rack is for decoration only. It is dangerous to place heavy things on it.

Driving and Operation

Prior to driving

Before driving, a vehicle check is necessary to ensure road safety and comfort and to eliminate potential hazards, which are essential for the driver and passengers. The items to be checked include:

- Visually check the tire. If the tires are of lower pressure, test the tire pressure with a barometer and inflate it in time to ensure the tire pressure under 210 ~ 230kpa;
- Check whether the wheel nuts are loosened, fallen off and tighten them if necessary;
- Check whether there are oil traces under the car, whether there is pipeline leakage;
- Check oils/fluids, such as brake fluid, engine oil, coolant, washer fluid, and steering fluid, for proper volume.
- Check all window glasses, outside rear-view mirrors, front and rear lights, etc. for normal operation; clear snow, dust deposit, dead leaves, etc. of the vehicle.
- Check whether the instrument, indicators lights, warning lamps are working properly;
- Check whether the engine cover and the tail door have been tightly closed, whether the tool kit complete, the air pressure of spare-tire normal, whether the baggage inside the car set in good place;
- Check whether the steering wheel, seats, safety belt are properly adjusted and the doors are closed tightly.

Use of ignition switch

The ignition switch is located at the right side of steering column. It has in total four positions:

- LOCK
- ACC
- ON
- START

LOCK

It is only on this position that you can insert or take out the key.

When the key pulled out, the steering wheel is locked to play the role of anti-theft.

ACC

With the ignition switch in this position, the steering wheel unlocks and some electrical accessories, such as the audio system and cigarette lighter, turn on and get ready.

Caution

Do not take out the key from the ignition switch during the driving, otherwise the steering wheel will be locked, and the car will be out of control. Take out the key from the ignition switch only after the car stops and flames out

ON

After the engine starts, the ignition switch maintains on this place under normal operation state.

On this place, all electric devices and accessories in the car are available.

START

To start the engine, turn the ignition key to this position. The starting motor will rotate the engine until you release the key; after released, the key returns to the ON position automatically.

Start engine

Check prior to start

- Verify that the parking brake handle has been pulled tightly up.
- For a vehicle with manual transmission (MT), set the shift lever to N (Neutral); for a vehicle with automatic transmission (AT), set the shift lever to P (Park) or N. The engine can not be started in any position except the above.

Starting

Make sure the shift lever is in N (MT) or P, or N (AT). Turn the ignition key to the ON position and stay 2 seconds, and then turn to the START position to start the engine. After the engine is started, release the key immediately to complete the engine startup procedure. After startup, release immediately the key to complete the startup procedure of engine.

If the engine still does not start, depress the accelerator pedal to the floor, and then restart the engine.

When the engine cannot be started after the previous procedure are repeatedly done, please refer to the "Engine

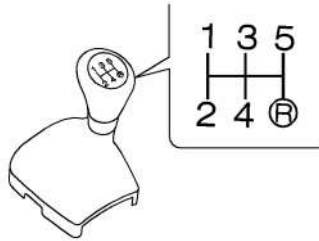
Cannot Start" in the part of "Faults and Troubleshooting". After the engine starts, do not step the throttle pedal immediately and let the engine run idle for a while.

Manual transmission (MT) operation

The manual transmission is a 5-speed mechanical construction. Transmission control features the traditional shift pattern as shown in the figure at right.

While shifting, be sure to depress the clutch pedal all the way down, and then release it slowly after the shift lever is engaged in the selected position. Keep your foot off the clutch pedal except when shifting gears; otherwise, accelerated clutch wear may result.

Make sure the vehicle comes to a complete stop before shifting to R. Shifting to R while the vehicle is still moving may damage the transmission.



Automatic Transmission (AT) Operation

Automatic transmission has 5 drive gears and 1 reverse gear. Respective gear positions can be automatically shifted according to the current position of the gearshift lever. For the purpose of a stable driving, when it is shifted from N gear (neutral gear) to D gear (drive gear) or R gear (reverse gear), it is required to completely push down the brake pedal.

Notice

Before gearshift lever is to be engaged into D gear (drive gear) or R gear (reverse gear), it is required to check the surrounding situation of the vehicle, as to whether or not there is pedestrian nearby, especially children. Before leaving the driver seat, it is required to confirm that the gearshift lever is engaged on the P gear (parking gear) position, before the parking handle is pulled up and engine is turned off. If the above sequence is not followed for operation, hidden safety trouble with unexpected and sudden movement of vehicle may likely exist.

Notice

In order to prevent damage of the transmission, when brake pedal is pushed down and R gear (reverse gear) or D gear (drive gear) is engaged, avoid pushing down the throttle pedal for engine acceleration. During upgrading, avoid use engine power to park, and please use brake pedal or parking handle. Under the situation when engine speed is larger than idle speed, it is forbidden to shift from N gear (neutral gear) or P gear (parking gear) to D gear (drive gear) or R gear (reverse gear).

Automatic Transmission Gear Positions

When ignition switch is turned onto ON position, the indicator light on the instrument panel will display the current position where the gearshift lever is located.

P Gear (Parking Gear)

Before it is engaged into P gear (parking gear), it is required for vehicle to be completely stopped, and at this point the transmission will lock and arrest the front wheels of vehicle from rolling.

Notice

It is not allowed to use P gear (parking gear) to replace the function of the parking brake, and it is required to use parking handle for parking. In vehicle running process, shifting the gearshift lever to P gear (parking gear) may cause the driving wheels to be locked, leading to vehicle out of control, and may also give rise to damage of the transmission. Please don't leave children alone inside the vehicle.

R Gear (Reverse Gear)

When vehicle is being reversed, please engage the gearshift lever on this position.

Notice

Before it is engaged into R gear (reverse gear) or disengaged from R gear (reverse gear), it is required to confirm that the vehicle is completely stopped, and otherwise it may cause damage of the transmission.

N Gear (Neutral Gear)

Cut off the power transmitted from engine to driving wheels. Please push on the brake or pull up the parking handle on the slope, and otherwise it may likely cause vehicle glide from the slope.

D Gear (Drive Gear)

When it is engaged into this gear position, automatic transmission will select and use the most suitable gear position according to the current vehicle condition, to provide vehicle with economical fuel saving and vigorous power. During overtaking or upgrading, when you want to get more extra power, please fully push down the throttle pedal. When throttle pedal is completely

pushed down, it may activate the Kick-Down function, and at this point the transmission will immediately and automatically gear down to increase vehicle power.

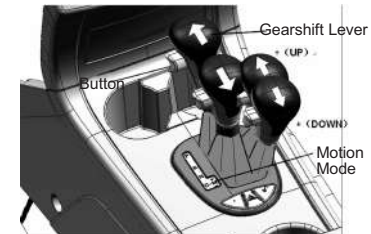
When it is engaged into D gear (drive gear) from other gear positions, please ensure that the vehicle is completely stably parked.

Motion Mode

When gearshift lever is turned from D gear (drive gear) from the primary channel rightward to the secondary channel aside, the motion mode can be activated. At this point, you can observe the current gear position of the automatic transmission on the instrument panel.

In motion mode, moving the gearshift lever forward or backward to perform the gear-up and gear-down operation according to your own will. Speaking in relation to manual transmission, gear can be shifted under the situation when throttle pedal is pushed down under the motion mode.

- + (UP): Push forward the gearshift lever once, and it gears up once.
- (DOWN) Push backward the gearshift lever once, it gears down once.



Notices

In the motion mode, it is required to ensure that engine speed is lower than the red area, when high-gear operation is implemented. In motion mode, in order to prevent damage of transmission, driver can only start at 1st gear or 2nd gear. When vehicle is slowed down, transmission will automatically shift to low-gear operation. When it approaches to parking, 1st gear will be automatically selected. In order to ensure the stable performance and safety indicators, when gearshift lever is operated for gear-up or gear-down, the

transmission may not possible execute certain gearshift operations.

On smooth pavement, 2nd gear can be selected and used for vehicle starting, so that vehicle can drive steadily on slippery pavement in a better way.

P Gear Locking System

In order to ensure driving safety, P-gear locking system is equipped for your vehicle. If brake pedal is not pushed down, P-gear locking system will prevent the gearshift lever from being shifted to other positions from P gear (parking gear).

When gearshift lever is to be

shifted from P gear (parking gear) to other positions, it is required exercise following operations:

1. Push down brake pedal.
2. Start the engine or turn the ignition switch to ON position.
3. Push down the button on the gearshift lever and move it.

Good Driving Habits

- When throttle pedal is pushed during idle speed of vehicle; please avoid shifting the gearshift lever from P gear (parking gear) or N gear (neutral gear) to other positions.
- When it is engaged into R gear (reverse gear) or D gear (drive gear), please confirm that the vehicle

must be completely stably parked for sure.

- Never be engaged into P gear (parking gear) in running process.
- During downgrade, it is forbidden to be engaged into N gear (neutral gear) for slide. Such operation cannot achieve the fuel saving effect, and is very dangerous.
- Please avoid long-time braking operation during running, as it is liable to cause brake to be overheated giving rise to failure. In the case of relatively long downgrading road condition, vehicle can be slowed down and entered into motion mode to be engaged into

relatively low gear. Such depending on reverse drive of engine may assist you slow down the vehicle.

- When motion mode is accessed, deceleration is required before it is engaged into low gear, and otherwise the automatic transmission may not possibly execute certain operations.
- When driving on smooth pavement, in order to prevent sudden change in vehicle speed leading to skid of driving wheel giving rise to vehicle out of control, it is required to try as much as possible to avoid emergency brake, acceleration, or gear shift.
- Steadily pushing down and

releasing throttle pedal may ensure that an optimal vehicle performance and economic efficiency can be achieved.

- When P gear (parking gear) is used for parking, it is required to pull up the parking handle to prevent the vehicle from movement.

Vehicle Starting for Upgrading

When vehicle starts from halted state to climb up a steep slope, it is required to push on the brake pedal, put down the parking handle, and then engage the gearshift lever into D gear (drive gear). According to the current load and gradient, slowly release the

brake pedal and push down the throttle pedal for acceleration. Please pay attention to prevent vehicle from slope glide.

Use of Running Brake System

Basic Description

Wear of the brake friction plate depends on service condition and driving method to a great extent, particularly for the vehicles driving on the roads where frequent brake is often required.

Your brake system can be automatically adjusted. When brake is pushed down, it is normal for brake system to occasionally give out sharp sound or squeaking sound, which will not affect the

performance of the brake system. However these sounds may likely be heard at any moment, especially the environmental conditions will have them deteriorated, such as cold, torridity, and vapor, as well as dust, salinity, or muddiness, etc on the streets. If what's heard is the metal and metal continuous frictional sound or continuous sharp sound when brake is pushed down, it is then possibly because the friction plate is worn out and it shall be replaced. Once such noise is heard, please contact Haima automobile sales serve shops as soon as possible.

Reminder

During long downgrade of vehicle, it is required to be engaged into low gear, and to make use of the braking function of the engine. If brake must be used at the same time, then intermittent operation is required.

Notice

Don't put any extraneous matter nearby the foot pedal, and otherwise, it may likely cause brake pedal to be incorrectly pushed down, thus to give rise to serious accident.

Factors affecting brake application

When driving after a car washing or in the rain, or in winter with freezing brakes, or on roads with salt spread, brake action will drop.

In such a case, first you must slow down and apply the brakes repeatedly, and then drive at the normal speed after the brakes fully recover. Keep your foot off the brake pedal except when applying the brakes. Otherwise, you will always ride the brakes, which will result in brake overheating and thus prolong the stopping distance and cause accelerated brake wear.

Role of vacuum booster

The vacuum booster in the brake system uses the vacuum produced by the engine intake system to assist the brake system. Therefore, do not drive the vehicle with the engine stalled.

If the vacuum booster does not work (e.g. the car the car towed or vacuum booster damaged) and needs to brake, the brake pedal has to be forcibly stepped, to compensate the lost booster function.

Vacuum booster with brake assist (BA) (optional)

When quick braking is required but there is not enough time for you to depress the brake pedal hard in case of emergency, the vacuum booster with BA can

help you implement such quick braking.

When you depress the brake pedal so that a certain speed is reached, you can hear a clear click coming from your foot, indicating that the BA system has come into play. Then you only need to apply a small pedal force to implement quick braking.

Though the BA system can help you implement quick braking, it does not mean that you can ignore driving safety.

Caution

It is strictly prohibited to flameout the engine when the car is sliding.

Anti-lock system (ABS)

The anti-lock brake system (ABS) controls over each wheel's brake so that the wheel will not lock up during emergency braking or braking on a slippery road so as to ensure the maximum brake force and best steering behavior of the vehicle and prevent it from whipping and from skidding on slippery roads.

The anti-lock system plays no role at the speed lower than 15km/h.

If a wheel is about to lock up during braking, a pulsating force will be fed back to your foot from the brake pedal and a click sound from the ABS control unit in the engine compartment will

be heard. This is normal and indicates that the ABS is working.

The ABS has a "self-diagnosis" function. When the ABS has a malfunction, the ABS warning light in the instrument cluster will illuminate for an extended time. Then, the brake system still operates properly, but the anti-lock function is not available. If the ABS warning light illuminates for an extended time, there is an ABS malfunction. Then, please drive to a Haima Automobile Sales Service Shop for maintenance.

Caution

The ABS can provide your vehicle with the best braking performance. However, you should not rely on the ABS as a substitute for safe driving.

ESP Electronic Stability Program (Optional)

Conventional ABS system and TCS system, etc have been integrated into the ESP system, with all the functions of ABS and TCS covered, and its sideslip prevention function is more superior compared with the ABS and TCS systems, which is benefited from more improved control logic and algorithm, with the sideslip prevention performance increased in a doubled way compared with the sideslip prevention capacity of ABS and TCS.

For ABS system function, brake of each wheel is controlled, for it not to be locked during emergency lock or lock on wet

and slippery pavement, to ensure the maximum braking force and steering performance of the vehicle, to prevent drift and skid on wet and slippery pavement. ABS system won't play function when vehicle speed is below 15km/h. In the braking process, when wheel approaches to be locked, feedback of pulsating force will be available on the brake pedal to the foot, and the clicking sound will be sent out from the ABS control unit of the engine compartment, which belongs to normal effect, indicating that ABS system is working. ABS system has "self-check" function, and when there is failure with ABS system, the ABS warning light on the

instrument will turn on for a long time. At this point the brake system is still working normally but no anti-lock function is available. If ABS warning light turns on for a long time, then failure has occurred with ABS system, please have it maintained as soon as possible at Haima automobile sales service shop. For TCS system function, existing engine management and conventional brake system are utilized to achieve starting on smooth ramp, starting on smooth road shoulder (pavement with ice and snow), and starting on sandstone road, etc (when driving wheels on both sides are on the smooth and slippery ramp pavement,

the function of TCS will be restricted by the ground physical limitations, and the expected performance cannot be achieved.), to ensure the directional stability (rear-wheel drive) and steering performance (front-wheel drive) of the driver vehicle, and allow the vehicle accelerating performance and driving force to be maximized under respective pavement conditions, to avoid vehicle from entering into the dangerous condition for out-of-control glide. When failure occurs with TCS, the ESP multifunctional warning light on the instrument is constantly on, and at this point the basic brake and the ABS

system are still working normally, but without TCS function. When TCS is working, ESP multifunctional warning light blinks. When driver press the ESPOFF switch, ESP and OFF warning lights are both constantly on, TCS function is turned off, and ABS function is normal. Under the condition when driver is kept to turn off the TCS function, if vehicle speed exceeds 70km/, then TCS function can be automatically activated. If driver presses the ESP OFF switch again, the TCS function can also be activated. If failure occurs with TCS system, please have it maintained at Haima automobile sales service shop as soon as possible. With

ESP system function, engine control system and basic brake system are utilized, to implement brake to a single wheel, to avoid understeering or oversteering dangerous condition when driver is driving at high speed on abrupt turning lane or emergently letting by the barrier suddenly arisen on the front, to ensure the vehicle control stability, and help driver to achieve rein over the vehicle according to the driving intention.

When failure happens to ESP system, the ESP multifunctional warning light on the instrument is constantly on, and at this point the basic brake and the ABS system are still working normally, but without ESP

function. When ESP is working, the ESP multifunctional warning light blinks. When driver presses ESP OFF switch, ESP and OFF lights are both constantly on, the ESP function is turned off, and the ABVS function is normal. Under the condition when driver is kept to turn off the ESP function, if vehicle speed exceeds 70km/h, then the ESP function can be automatically activated. If driver presses ESPOFF switch again, the ESP function can also be activated. When failure happens to ESP system, please have it maintained at Haima automobile sales service shop at soon as possible.

Notice

ESP system can provide optimal brake performance, control stability, and safety performance to the vehicle, but even if ESP system is available, safety driving cannot be ignored, as ESP system has its physical limitations for control as well.

Brake System Warning Light

Turning-on (ⓘ)

Brake system warning light has the warning functions in the following aspects.

Parking Brake Warning

When ignition switch is under ON status, this warning light turns on after parking brake handle is pulled tight. This warning light turns off when parking brake handle is released. It indicates that problem exists with running brake system, if this warning light is still on after the parking brake handle has been fully released, and examination shall be continued.

Brake Fluid Level Warning

If it is hard to push down the brake pedal or it is slack to push down the brake pedal, braking distance will turn to be lengthened in both cases, and warning light will be turned on as well. Please park the vehicle beside the road, pull tight the parking brake handle, and turn off the engine. Examine the height of the brake fluid level, and add brake fluid as per need. Check the brake system warning light again after brake fluid has been added. It indicates that failure exists with the anti-lock brake system (ABS), if warning light is still on.

ABS Warning

If a failure happens to the anti-lock brake system (ABS), this warning light turns on as well. The failure of anti-lock brake system (ABS) will directly affect the working performance of the brake system (especially on damp or icy and snowy pavement), and additionally wheel locked situation may possible arise. Therefore, don't keep on driving, and it is required to contact Haima automobile sales service shop immediately.

ESP Warning

For vehicle equipped with ESP, its ABS warning mode is the same as the warning mode of the vehicle equipped with ABS system.

When failure happens to TCS/ESP system, or sensor, ESP multifunctional warning light will turn on. When only ESP multifunctional warning light turns on, TCS/ESP function becomes ineffective, but ABS function can still be normally used.

After ESP multifunctional warning light turns on, driver shall not make any driving operation that may bring unstable conditions to the vehicle, and shall contact Haima automobile sales service shop as soon as possible.

Notice

So long as the steering wheel angle sensor has been artificially disassembled from on the steering column, the sensor must be initialized, and at the same time when initialization is ensured, steering wheel shall be aligned, and otherwise, ESP multifunctional warning light will turn on, the TCS/ ESP function will exit.

Please contact Haima automobile sales service shop for initialization of the sensor.

ESPOFF Warning Light

After driver has pressed ESP OFF switch, the ESP OFF light on the instrument turns on, which means the TCS/ESP function has quitted, and at this point driver can recover the system function through two ways: one way is to press ESP OFF switch again (ESP OFF switch is the point contact switch.) and the other way is to accelerate the vehicle to more than 70km/h, and the system will automatically recover the system functions (it is recommended to use ESP OFF switch to recover ESP system function.).

Notice

Brake system relates to driving safety, and before system related failure is removed, continued driving on public road is not allowed before failure is removed.

Application of parking brake system

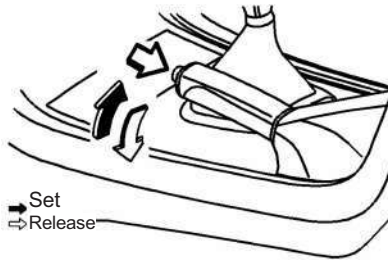
Parking brake

The parking brake handle is located at the right side of the driver.

Pull up tightly the parking brake handle to achieve the function of parking brake.

After the car securely parked, pull up the parking brake handle to achieve the parking brake while holding step on the service brake pedal. Then release the service brake pedal.

Then, release the service brake pedal.



Caution

The parking brake can be pulled up only after the car has been securely parked. The use of parking brake during the driving is allowed only in case of emergency, but it may damage the vehicle.

Release of parking brake

In order to maintain the brake force when releasing the parking brake, depress the brake pedal first and pull the parking brake lever upwards, and then press the button and push the lever all the way down. Release the brake pedal after ensuring safety.

Tip

Prior to start moving, make sure that the parking brake lever is set to the lowest position before starting, otherwise it will start with difficulty and lead to accelerate the brake wear.

Use of steering system

Steering system

The steering system plays an important role in realization of vehicle steering. In order to improve operation easiness and crash safety, this system is equipped with a hydraulically assisted, collapsible steering column and an angle-adjustable steering wheel.

Tip

After the long-term use, a slight phenomenon of "deviation" may occur with the vehicle. Please send the car to the Haima Automobile Sales Service Shop for the adjustment of wheel alignment.

Hydraulic power systems

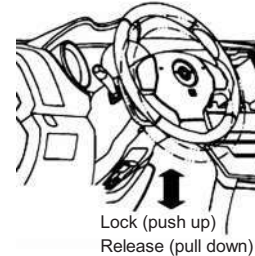
The vehicle steering system is disposed of the hydraulic power function to ensure the convenience of operation. The function is only available when the engine is running.

The system is still able to steer and maintain straight driving after the engine stalls, but you need to apply larger operating force.

Collapsible steering column

The steering column is disposed of the collapsible function. When the car has the frontal collision with an obstacle, the steering column will automatically collapse according to the impact force to ensure the driver's safety.

Angel adjustable steering wheel



The driver may adjust, according to the own stature and driving habits, the angle of steering wheel steering column).

To adjust the steering wheel, pull down the lock release lever under the steering column first, then adjust the steering wheel to the desired position, and finally push the lever up in place.

Vehicle inspection and maintenance in winter

The temperature is rather low in north. Before the winter comes, the inspection and maintenance should be well done.

- Check whether the ratio of anti-freezing fluid inside the radiator is suitable in winter.
- Replace the washing liquid, and use the washing liquid added with anti-freezing fluid.
- Check whether the battery works properly. Under low temperature, the storage capability of battery will decrease considerably.
- Replace the engine oil, and use the oil of low viscosity.

Driving on the icy and snowy road

When the car runs on the icy and snowy road, the tire adhesive ability to the road surface will decrease.

Thus, you should slowly accelerate, brake and make small turn when driving your car.

The specific requirements are listed as follows:

- Drive carefully, keep the enough distance with the forerunner to prevent the rear-end due to the insufficient braking distance.
- Avoid the snap acceleration and deceleration.
- Try to avoid the emergency brake under premise that the driving safety is guaranteed.
- Avoid the snap and large turn.
- As the case may be, you can gear down to drive. When shifting, operate carefully and avoid the sharp change of speed.
- If the front wheel is skidding and cannot drive, you may put the sand, coarse salt, or straws and cotton blanket etc., under the front wheel.

Tip

Good maintenance of vehicle and careful drive with concentration will ensure your driving safety under harsh conditions as well as safety of people and vehicles.

Maintenance and Care

Regular maintenance

Same as other machinery, the vehicle requires the maintenance and service.

The table of regular maintenance lists all must-be maintenance items necessary to hold the vehicle in the best condition and the longest service life.

The maintenance work should be carried out by the qualified technical personnel formally trained as per the Haima Automobile's standard and specifications.

All authorized Haima Automobile Sales Service Shop meet these requirements.

Instruction of service cycle

- Provided the car is used under the following conditions, the replacement cycle of engine oil and oil filter should be reduced (shorter than the regular maintenance cycle provided in the table)
 - Driving in dusty conditions
 - Driving at idle or low speed for longtemp
- If the vehicle often drives on dusty or sandy roads, the inspection, cleaning and replacement interval of air filter should be shortened.
- For the vehicles often run on bad or mountainous

road, the brake is frequently used; and for those often used in hot, and humid climate, the brake fluid is easily perishable. For two above situations, the brake fluid should be replaced once a year

- All functions of electrical systems, such as lights, wipers and power windows, etc., should always be checked.

Tip

The maintenance as schedule will always guarantee your car in the best state.

Regular Maintenance Table I - Inspection Clean, repair, adjust or replace if required. R - Replacement T-Tightening
L - Lubrication M - Maintenance

Service cycle	Calculated as per the odometer read-out or monthly result (both whichever occurs first) during the service period.																	
	Service sequence	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th
Service items	Month	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	× 1000 KM	2.5	7.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5
Engine valve clearance	Gasoline engine	Check once every 100,000km or 60months																
Drive belt*1		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
engine oil *2		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Oil filter*2		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Cooling system (including coolant level adjustment)		I		I		I		I		I		I		I		I		I
Engine coolant		Replace every 2 years																
Idle		I		I		I		I		I		I		I		I		I

*1: In the case of vehicle equipped with power steering or air conditioner, inspect the driving belts of the two systems.

*2: Shorten the oil drain and oil filter intervals in the following conditions: a) Driving in dusty conditions b) Long-term idling or low speed driving

Service cycle	Calculated as per the odometer read-out or monthly result (both whichever occurs first) during the service period.																	
	Service sequence	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th
Service items	Month	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	× 1, 000 KM	2.5	7.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5
Air filter*3		I	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R
A/C filter *3	Replace every year or 10000km (according to different configurations of vehicles)																	
Fuel filter	Replace every 1 years or 10000km																	
Fuel tube and hose			I		I		I		I		I		I		I		I	
Spark plug		I	I	I	I	I	R	I	R	I	R	I	R	I	R	I	R	I
Fuel evaporation system			I		I		I		I		I		I		I		I	
Radiator cleaning	Observe every 20000km, cleaning if necessary.																	
Battery performance test			I		I		I		I		I		I		I		I	
Brake and clutch pedal		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake tube, hose and joint			I		I		I		I		I		I		I		I	
Brake fluid *4		I	I	I	I	R	I	I	I	R	I	I	I	R	I	I	I	R

- *3: Shorten the intervals of inspection, cleaning and replacement of air filter in the case of vehicle driving on dusty and sandy roads.
- *4: Replace the brake fluid once a year in the case of frequent use of brake (e.g. continuous tough driving or mountain driving) or driving in extreme humid climate.

Service cycle	Calculated as per the odometer read-out or monthly result (both whichever occurs first) during the service period.																	
	Service sequence	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th
Service items	Month	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	× 1,000 KM	2.5	7.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5
Parking brake																		
Brake booster and hose																		
Disc brake																		
Drum brake																		
Power steering fluid and pipeline																		
Steering operation and gear guard																		
Steering link guide rod and ball tie rod																		
Manual transmission oil			R				R				R			R				
Auto-transmission(AT) oil												R						
Drive shaft dust cover																		

Service cycle Service items	Calculated as per the odometer read-out or monthly result (both whichever occurs first) during the service period.																	
	Service sequence	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th
	Month	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	× 1, 000 KM	2.5	7.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5
A/C			I		I		I		I		I		I		I		I	
Wheel nuts	T		T		T		T		T		T		T		T		T	
Exhaust system heat shield			I		I		I		I		I		I		I		I	
Chassis and body bolts and nuts	T		T		T		T		T		T		T		T		T	
All electric systems*5			I		I		I		I		I		I		I		I	
Headlamp calibration				I		I		I		I		I		I		I		I
Body status (rust, corrosion and pits)	Check once every year																	
Tires (including spare tire and charge pressure adjustment)			I		I		I		I		I		I		I		I	
Hinge and clamp			L		L		L		L		L		L		L		L	
Underbody			I		I		I		I		I		I		I		I	

*5: Functions of all electrical systems, e.g. lighting, wiper system and power window

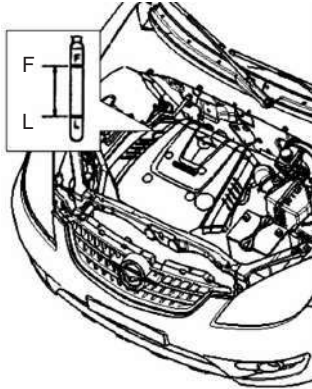
Service cycle		Maintenance cycle is to be calculated in line with velocity mileage readings or months (whichever comes first)																
		Service sequence	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
Service items	Month	2	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
	× 1, 000 KM	2.5	7.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5
Road test				I		I		I		I		I		I		I		I
Engine protection*6		M*7		M		M		M		M		M		M		M		M
Engine cleaning*6				M		M		M		M		M		M		M		M
Injection nozzle cleaning*6				M		M		M		M		M		M		M		M
Combustion chamber /Air intake system cleaning*6				M		M		M		M		M		M		M		M
A/C maintenance*6				M		M		M		M		M		M		M		M
Brake system maintenance *6						M				M				M				M
Hydraulic booster steering system maintenance*6						M				M				M				M
Cooling system maintenance*6						M				M				M				M
Manual transmission (MT) protection *6			M				M				M				M			
Auto-transmission (AT) protection *6		Every 30 months or 45000km																

*6:Suggested items, it is recommended to use professional maintenance equipments and supplies for Haima vehicles for specific maintenance and better vehicle status.

*7:This item is not including in the first free maintenance supplied by Haima Automobile.

Check of liquid level

Check of engine oil



- Park your car on a flat ground, wait for 5mins after the engine flameouts so that the oil returns to the oil sump.
- Pull out the dipstick and wipe it clean, then re-insert

the dipstick and pull it out once again, check the level of oil fluid. The oil level should stay between the marks Min. (L) and Max. (F). The difference between the Min (L) and Max (F) is approximately 1 liter of oil. If it's near or below the mark min (L), add oil through the filler to bring the level to or near the mark max (F) but not beyond that mark.

- After the oil added or replaced, let the engine run for a few minutes. Check again the level of engine oil in 5mins after the engine shuts down

Inspecting coolant level



- Check the coolant level in the surge tank only when the engine is cold.

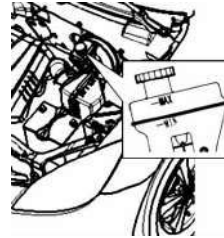
Caution

Do not check or add coolant when the engine is hot. Otherwise, you could be burned.

Under normal conditions, the coolant level in the surge tank should be between the "L" and "F" marks. If it's below "L", pour approved engine coolant in slowly through the surge tank port to bring the level to "F".

Tip

If the coolant becomes chocolate brown, please continue using it securely. This may be due to a small amount of cleanser residue in the engine coolant passages left during engine manufacturing. It will not affect the performance and use of the engine coolant.

Checking brake fluid

- The brake system and clutch system are combined in one tank.
- Be sure to check the fluid level in the reservoir periodically. If low, add brake fluid until the level is between MIN and MAX. Before adding brake fluid, be sure to clean the area around the reservoir cap so as to avoid foreign matter entering the

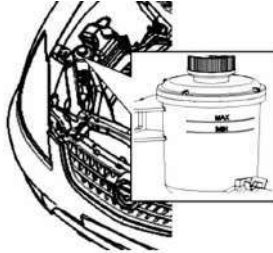
reservoir.

- With the increase in mileage, the level of brake fluid will decrease due to the wears of brake lining and clutch friction plate. Refill brake fluid in a timely manner. If its level is always low, please drive to a Haima Automobile Sales Service Shop and have them check the brake system and clutch system and add brake fluid.

Tip

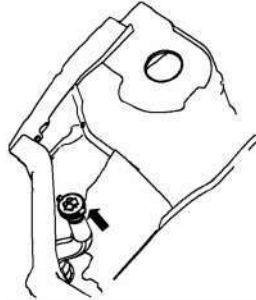
To ensure the brake performance, the brake liquid of specified brand must be filled.

Checking steering fluid



- Be sure to check the fluid level in the reservoir periodically. If low, add steering fluid until the level is kept between MIN and MAX.

Checking washer fluid

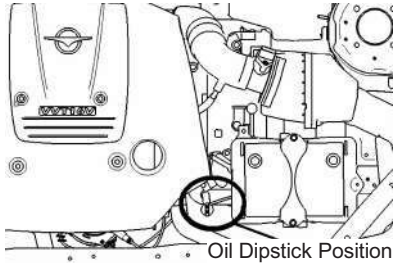


- Open the fluid reservoir cap upward, and visually inspect the level of the washer fluid in the reservoir.
- If washer fluid is not available, you can also use clean water. However, use only washer fluid in cold weather conditions so as to prevent freezing.

Caution

It is not allowed to use the radiator coolant as the washing liquid, because this is very dangerous. such use will get the windshield glazing dirty and affect your vision and lead to traffic accidents. Therefore, only add the windshield washing liquid or clean water into the tank.

ATF:Oil Position Inspection (Automatic Transmission Fluid)



Please regularly inspecting the oil position of ATF.

Parking the car on horizontal road and pulling the gear lever on parking position,then inspect oil position as following steps:

- 1.pulling gear lever on N gear and meke sure the engine is running with normal idle speed.
- 2.heating the transmission(AIF

temperature reaches 70-80°C after runlling the vehicle for about 10 mins),pulling gear lever on P/R/D gears (3seconds for each one),then pulling gear lever on N gear.

3.Confirm the "HOT"mark position on oil dipstick,kf the oil position is lwwer than the mark,you need to inject certain ATF,and if the lil position is higher then the mark,you need to release some oil output bolt.

4.In normal temperature condition, check the oil position coil tem perature should be around 20-30°C 7 and inject oil to "C"line (COLD) then re-inspect oil position as the second step.mentioned in aboving.

TIP

"C"(COLD) area range is only for reference,please do not take it to confirm oil position of transmission.

Caution

Inspect ATF oil position when tronsmission oil rench certain temperature,engine,radiator, intake and output water pipes, air exaust system will be overheat in that moken,so please be careful about whole inspection procednres.

Over-cow oil position will cause transmission inside sdidding and dalnage and over-hisb oil position will cause bubble,oil wastaeg and transmission failure.

Ues uncertained oil may cause transmission in failure and even lose function.

Please regularly replace ATF oil from Haima authorized distributor according to the following table.

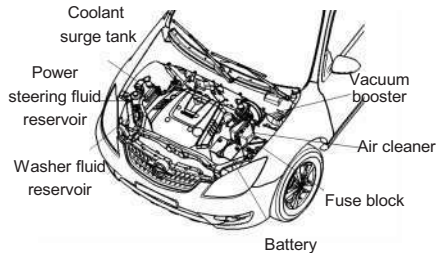
Transmission Type	Regular oil certified	Inspection and injection	Replacement		
			personal purpose		Business purpose
			Normal Use	Intensive Use*	
5F23	Haima ATF SP-3	Every 3 years or 50000km	to maintain	Every 85000km	

*Intensive Use:

- 1) In bad road conditions (uneven road, sand-gravel road, snow road and so on)
- 2) On hill road, uphill and downhill road.
- 3) Repeated short trips
- 4) Driving in the air temperature over 30°C, or over 50% city traffic jam condition.
- 5) Be used for police, racing, commercial events and trailer towing.

Parts of maintenance and replacement

Battery maintenance and charging



- The service-free battery owns the inbuilt power indicator, the electrolyte level and power should be often checked.
- The power indicator is in dark with the green in center. If the indicator shows in a bright or dark color, but no green in the central area, that indicates a battery problem, please consult the Haima Automobile Sales and Service Shop.
- If the battery is dead (due to lights staying on long with engine stalled), perform trickle charge according to the specification of the battery and the capacity of the charger.

Tip

Before the battery maintenance or charging, you should switch off all electrical equipment, shut down the engine.

If your car is out of use in cold weather for long-term, remove the battery and store it in warm place to avoid the electrolyte freezing.

- If your vehicle is to be left unused for an extended period of time, remove the battery cables, and charge the battery every 6 weeks.

Caution

The battery liquid is toxic and corrosive. Avoid its contact with the eyes and skin. Do not let the flame or other possible fire sources approach the battery, because it is risky of fire and explosion.

Maintenance of air filter

- Check or replace its filter element at the maintenance intervals. If your vehicle is always driven in dusty or heavily polluted environments, reduce its inspection and maintenance intervals.
- Remove the air cleaner, and open it after loosening the metal clip. Then, remove its element, and check or replace.

Tip

Do not clean the filter element with water; otherwise, it may be damaged, resulting in early engine wear.

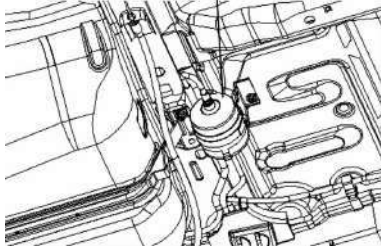
Maintenance of oil filter

- Replace the oil filter in accordance with the maintenance cycle
- For use in harsh conditions, the replacement cycle should be shortened.

Replacement of fuel filter

- The fuel filter is mounted on the underbody beside the fuel tank.
- Go to the Haima Automobile Sales and Service Shop for replacement as per the Table of Regular Maintenance.

Fuel filter



Maintenance of spark plugs

- The clean and intact spark plugs are very important for maintaining the engine power and index of emissions
- Go to the Haima Automobile Sales and Service Shop to have check the outlook of spark plug, test the spark intensity and determine whether there is an electric leakage

Tip

The spark plug must be replaced as per the interval specified in the table of regular maintenance. The spark plug of specified type must be used. If the heat rate is less than the required value or the expected service life cannot be guaranteed, that will affect the engine's performance and use.

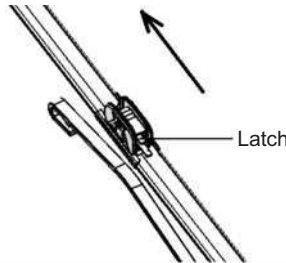
Maintenance of wiper blades

- If the wiper blades or windshield glass are contaminated by foreign matters, they will reduce the effectiveness of wiper, thus must be removed. Common foreign matters are insects and leaves etc.
- Use the mild or neutral detergent solution to clean the windshield glazing and wiper blades. After the cleaning, rinse them thoroughly with water.

Tip

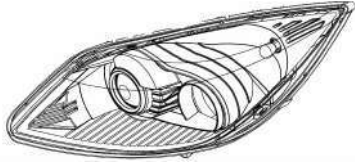
Do not use the gasoline, kerosene, paint thinner or other solvent to clean the wiper blades; otherwise the blades will be easily damaged.

- If the windshield still cannot be washed clean after the cleaning of wiper blades, it indicates that the blades have been probably worn or cracked and should be replaced.



- By replacement, lift the wiper arm; spin out the wiper blades assembly until the slot is exposed. Outwards open the slot and move downward the wiper blade and then lift it to separate the wiper blade from the arm.

Replacing combination headlight bulb



If any bulb of the combination headlights is damaged, please directly send it to a Haima Automobile Sales Service Shop for servicing.

The position light bulb is W5W; the low beam bulb is H7; the high beam bulb is H7, and the turn signal light bulb is PY21W.

Tip

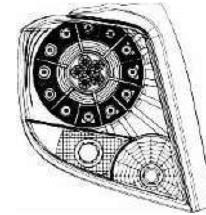
When replacing a bulb, be sure to do the job and handle with care. Never apply excessive force and act hastily.

Caution

The burst of halogen bulb of headlamp break is dangerous. As such a bulb contains compressed gas, the explosion will occur if ruptured, and the flying glass fragments may result in serious personal injury. Therefore, when replacing a halogen bulb, the operator should wear safety goggles.

If hand directly touches the glass of the bulb, the human fat adhesion on the bulb may lead to overheating and explosions when the light bulb lights up again, therefore, the gloves must be worn during the operation.

Replacing combination taillight bulb



- When replacing bulbs of the rear turn signal lights, reverse lights, and rear fog lights, be sure to remove the trunk end trim first. Then, remove the mounting bolts of the taillight, pull the plastic retainer outward, and remove the taillight. If any of the brake lights and rear position lights is damaged,

please directly send it to a Haima Automobile Sales Service Shop for servicing.

- Turn the lamp set and take out the set
- Replace the bulb by a new one.
- Assembly in the reverse order of disassembly.

Maintenance of seat safety belt

- To ensure safety, the status of seat safety belt should be regularly checked.
- At the time of check, each seat safety belt will be completely pulled out, Verify whether there are scratches, cracks, burns and abrasion. Check whether the lock works properly and the three-point safety belt is smoothly retractable.
- The seat safety in poor condition or abnormal operation cannot provide the good protection; it should be replaced as soon as possible.

- If the vehicle has encountered a serious frontal collision, the seat belts must be replaced whether they are damaged or not.
- The seat belt pretensioner can only be used once. Do not reuse it once it is fired; instead, you need to drive to a Haima Automobile Sales Service Shop to have it replaced together with the air bag.
- Prevent the polish, oil and chemicals, in particular, the electrolyte from contaminating the fabric part of safety belt
- If the seat safety belt is dirty, clean it with a soft

brush dipped with warm and neutral soapy water. Do not use the bleach, dye or cleaning solvent to clean the safety belt. Such items will reduce the durability of safety belt

Caution

As such related to security, the users are not allowed to modify or replace the safety belt by yourself. You have to contact the Haima Automobile Sales and Service Shop to replace them with specified brand safety belt by their professional staff.

Maintenance of car accessories**Leather maintenance**

Some models are equipped with rear leather seats and door trims (optional). Periodic leather care is required.

- Remove the dirt (e.g. dust, etc.) adhering to the leather with a soft brush or vacuum cleaner, paying particular attention to folds and seams. Then, clean the leather with clear water dipped soft cloth and wipe dry it with a soft, dry cloth.
- If further cleaning is required, you can smear the special soap for leather cleaning on water dipped

soft cloth, use the cloth to wipe the leather, and then wipe dry it with soft cloth.

- If you use leather cleaner, wipe out the cleaning agents as soon as possible with a soft dry cloth after brushing. Do not put the rag dipped with the leather cleaner on any part of the interior trim for longtime.

Tip

These cleansers are strongly caustic solutions for leathers, fabrics, plastics, rubber, etc. Be sure to carefully read their instructions before use, operate in strict accordance with the requirements, and avoid contact with other surfaces.

Maintenance of fabrics

- Should always be removed with a brush or vacuum cleaner on the soiled fabrics set the dust, shredded paper and other dirt
- When you remove the surface stains, clean with mild and neutral soap water, then dried in the air.
- To remove stubborn stains on the fabric surface, please use appropriate cleaning agents and operate strictly in accordance with the requirements of cleaning agents instructions.

Carpet maintenance

- Always use a soft brush or vacuum cleaner to remove the carpet dust and other dirt, and keep the carpet dry.
- To remove stubborn stains, use the appropriate carpet cleaning agent and operate strictly in accordance with the requirements of cleaning agent's instructions.

Tip

Maintain the carpet dried. Wet floor carpet will easily cause the floor corrosion

Maintenance of plastic parts

- Clean the plastic surface with water or neutral soapy water, and maintain a beautiful outlook of parts.
- Avoid the corrosive solution contact with the dashboard, such as perfume and cosmetics etc. These substances can damage the surface or discolor the surface. If these solvents stick on the dashboard, they have to be removed immediately.

Tip

The air fresheners or deodorants placed on the dashboard should be properly preserved, so as not to spill out while your driving.

Glazing cleaning

- Dust and dirt on the glazing may be washed out with water or soapy water.
- If the glazing stuck by oil, clean it by the glass cleaning agent.
- Dry with clean and soft cloth or paper towel.

Tip

Please wipe the inside of the rear window glass and side window glass gently left and right so as to avoid damage to the defroster and antenna printed on the inside of the rear window glass.

Vehicle's cleaning and maintenance

Dusts in the road and air and etc have erosive effects to the car surface and metal parts. Therefore, the purpose of vehicle cleaning and maintenance is not limited to keep the exterior pretty and interior clean, it also helps to prevent early damage and corrosion.

If a vehicle is going to park outside for a long-term, it is best to shelter the car cover with car cover.

Caution

For sake of health of occupants, the materials used for cleaning of interior trim must meet the requirements of pollution control regulations

Vehicle cleaning

In order to keep your car clean and paint surfaces beautiful, a good habit of regular cleaning of vehicles and body waxing should be cultivated.

The regular cleaning intervals depend on the conditions of vehicle use and its environment.

The vehicle should be washed in the shade instead of under direct sunlight. If a vehicle parked in the sun for long time, you should drive, prior to the washing, your car to a shade place and let the body surface cool down

Some precaution to the car washing:

- Thoroughly rinse the vehicle with cold water to remove dust. First wash away the soil bonded on various parts of the body with clean water, and then fill a bucket of cold water mixed with the special cleaning liquid. Clean the body with a soft brush, sponge or a piece of soft cloth dipped with water containing the cleaning liquid with scrubbing liquid. Repeatedly clean from the top and gradually down. Finally, rinse out the cleaning liquid with clean water
- Check whether there are asphalt and dirt vegetation slurry on the body.

Remove such dirt with asphalt remover or turpentine, and then rinse immediately with water to avoid the damaging on the surface finish of body.

- After the washing, you should check carefully all joints and door hinges. If not yet cleaned, do your job further.
- After washing the whole body finish, wipe dry it with a soft towel. Let it dry in the air naturally and it will lead to the formation of water stains or dull.
- After drying the body, you should park the car in an open park area in order to evaporate residual water.

Tip

As the detergent will pollute the environment, the car should be washed on a place where the installation of detergent collection and purification is available. Bird droppings should be cleaned immediately, because it contains acidic substances which are particularly corrosive to the paint.

Body waxing

When there is water drops stuck on the painted surfaces of body and cannot quickly drop down, it indicates that the rewaxing is necessary. The body waxing may prevent the dust and chemicals from bonding on the paint surface.

It is best to wax the body once every three months. Precautions to the body waxing:

- Body waxing must be carried out after the car has been cleaned and dried.
- Use the high-quality liquid wax or paste wax. In case of use, refer to the

instructions on the container.

- The body waxing should be made for the new purchased vehicle. The body waxing is to apply a kind of wax on the surface paint of body. It protects not only the paint from harmful gases, acid and other violations, but also reduces the exposure to the sunlight. For a newly purchased vehicle, wax it with such wax.
- The polishing wax is a mixture of paraffin and cleaning agents. It can make the body painting surface glory which was oxidized or lost luster. If your car body has been

waxed and the paint surface fails to restore its original luster, you should use polishing wax.

Maintenance of paint

Dust and grit will damage the painted surfaces. The vegetation, serum and bird droppings will damage the surface finish. The maintenance of painted surfaces should be regularly made.

Always check whether the paint falls off or any scratches on the body surface. Check the underbody, especially the paint layer of parts facing the wheels is damaged by flying stones.

Once the paint surface scratched, the paint maintenance should be carried

out immediately to prevent the rust.

The approach of paint maintenance is to apply quick-drying lacquer on the lesion with the paint of same color.

- Before the painting, be sure that the surface is clean and dry.
- First, mix well the quick-drying paint, and then apply carefully on the lesion with a brush dipped in paint. After coated with the quick-drying paint, only paint the peel-off area and minimize the paint amount in order to make it hardly visible.
- The protective repair on the surface paint of body can

be used only to repair the fall-off paint or scratches in small pieces. If the paint in large area falls off, you should go to the Haima Automobile Sales and Service Shops for painting repair.

Anti-rust

Haima Automobile has implemented the best manufacturing technology to effectively protect the body against rust. Some simple regular maintenance will contribute to the anti-corrosion of vehicle.

- Wash your vehicle on a regular basis, at the same time, check and clean the

drain holes on the doors and underbody to ensure they are unobstructed, thus preventing rust or corrosion. Clean at least, once a month the chassis to reduce the rust possibility.

- Check the paint surface of body. Once the paint peel-off or scratches found, they should be repaired immediately to prevent the rust therefrom. If the metal surface can be seen through from the spalling site, they should be repaired at once. Check whether there is water in the interior and floor, the dryness should be kept.

- If necessary to bring the corrosive materials like the chemicals, cleaning agents and salt etc., onto the car, they should be put into a suitable container with good packing. Once the leakage occurs, it should be immediately cleaned up
- The car shouldn't park in a wet and airless garage, or deposited directly in a closed garage without drying after run on wet or snowy land, otherwise it will easily cause the metal corrosion

Parking

If you need a long-term (one month or more) parking, it is best to park your car in a dry garage and do the following things:

- Add the fuel, change the engine oil and filter
 - Thoroughly wash, dry the body appearance, and clean the interior, ensuring that the carpet.etc is completely dry.
 - Release the parking brake lever, and set the transmission in reverse gear (manual transmission models) or in parking mode (automatic transmission models), and chock the rear wheels with the wedge blocks
- Slightly open a window (if deposited in garage), to allow the ventilation in the car
 - Disconnect the battery cable
 - Pave the wiper blades with a folded towel or cloth, so to prevent it from contact with the windshield
 - To reduce the adhesion, the sealing parts of all doors and trunk should be sprayed with silicone lubricant and the paint surface in contact with the seals of doors and trunk should be coated with wax
 - Cover the body with the breathable cover made of cotton-like "Porous Material"

- In case of a longtime parking, it is best to start the engine once a month and run idle for 15 minutes
- If your vehicle has been parked for 1 year or longer, please have a Haima Automobile Sales Service Shop perform an inspection equivalent to the 2 years/ 40,000km one specified in the Scheduled Maintenance Chart before reuse.

Tip

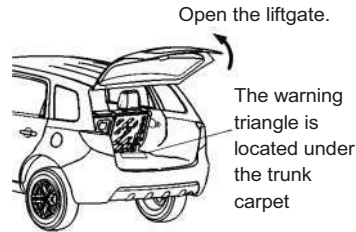
The care and maintenance prior to, during and after a long-term parking of vehicle are the essential problems related to the technical condition of vehicles and the service life, and can hardly be ignored.

Faults and Troubleshooting

Haima car's reliability is generally praised by users. The users should carry out timely and appropriate treatment on occasional malfunctions during usage and maintenance to ensure normal operation. In case of failure, please choose a proper parking place to park it safely, and adopt the traffic warning triangle and hazard warning light properly. Confirm the malfunction firstly and then handle it accordingly by yourself or consult the Haima Automobile Sales Service Shop. For the malfunction that can be handled by yourself, it is still

recommended that you should call the Service Shop before handling.

Application of traffic warning triangle



In the event of a vehicle breakdown or traffic accident, turn on the hazard warning light and, at the same time, the position lights during night driving; in addition, place a warning triangle 50~100 m (on highways, 150 m) behind your vehicle.



Application of hazard warning light

The hazard warning light is used to warn the vehicles coming ahead and behind.

When parking your vehicle, use it and the warning triangle at the same time.

When the hazard warning light switch is depressed, all turn signal lights will flash at the same time.

When the hazard warning light is on, turn lights don't flicker for indication.

Engine overheating

Under normal conditions, the pointer of the coolant temperature gauge on your vehicle should stay at a position near the center.

Under such circumstance, you should stop the car immediately for inspection. Otherwise, the engine shall be severely damaged.

- After stopping the car, if any steam or mist emitted from the engine hood, please shut off the engine immediately. Before opening the engine hood for inspection, please ensure no steam emitted out.
- When no steam is emitted,

open the engine hood, start the engine and check the water temperature gauge. The temperature shall decrease continually if the overheating is caused by overload. If the temperature doesn't decrease, shut off the engine to let it cooled down slowly and go further to find the cause of overheating.

Caution

The superheated steam or mist emitted from the engine hood shall result in personal scalded, therefore, don't open the hood too earlier

- Check the coolant level in the surge tank. If low, check the radiator hose and connections, heater hose and connections, and radiator and water pump for coolant leakage.
- If any leakage or damage is detected, simply handle it accordingly, and then start the engine to confirm if the problem is removed. If the trouble remains, please contact a Haima Automobile Sales Service Shop as soon as possible.
- If no noticeable leakage or damage is found, or the trouble has been removed, add coolant carefully as required. Replenish proper

coolant as required carefully.

- If no new coolant is at hand, you may fill with some purified water or tap water for temporary use. After that, change the water with coolant completely.

Caution

If you open the surge tank cap when the engine is very hot, the boiling coolant and steam will blow out under pressure. This may cause serious personal injury. Be sure to wait for the engine and radiator to cool down before removing the surge tank cap and adding coolant.

Engine fails to start

If the engine fails to start, you can locate the cause through hearing the engine hood sound when switching the key to START position.

Engine's failing to start is probably caused by the following reasons:

- No engine rotary sound being heard but only a click or a series of clicks being heard indicate that no operation or very slow operation of starting motor. Please inspect as follows:
- If your vehicle is equipped with an automatic transmission, check that the shift lever is in either P

or N.

- Turn ignition switch to ON position, turn on the headlamp and check its brightness. If it is very dim or not on, power shortage of battery is indicated.
- Turn ignition switch to START position, if the headlamp doesn't become dim, check the fuse. If the fuse is normal, there may be failure in the circuit of ignition switch or starting motor.
- When the engine fails to start and operate, the starting motor is heard to operate normally or to rotate faster than the normal, which may be caused by the followings:

As your vehicle is equipped with an immobilizer system, the engine can be started only using the key with correct password.

- If password is incorrect, the engine cannot start and anti-theft system indicator light on the dashboard shall flicker quickly at the same time.
- Check the fuel level: Turn ignition switch to ON position and stay for 1 minute to check the fuel gauge. The engine cannot start if the fuel level is too low.
- The electrical system may have problem, for instance, no power is supplied to fuel pump. Please check all

fuses.

If no abnormality is found by the above methods, please consult the Haima Automobile Sales Service Shop.

Start the engine by bridge connection

If the battery voltage is not high enough to start the engine, you can use an external battery of the same or larger capacity to start the engine.

Caution

For the car equipped with manual transmission, please don't start the engine by ways of pushing, towing or downhill sliding. Otherwise, the three-way catalytic converter may get damaged. The above-mentioned starting methods especially cannot be applied on the car equipped with automatic transmission (ASG); otherwise, both three-way catalytic converter and automatic transmission may get damaged.

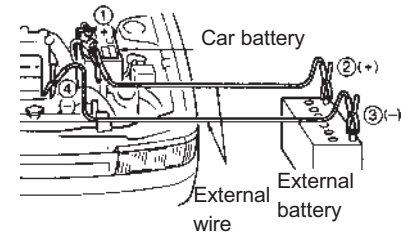
The start by bridge connection must be carried out carefully as per the following steps:

- Open the engine hood, check the actual status of battery (refer to Maintenance of Battery). Please check the status of electrolyte under very cold weather.
- Turn off all electrical equipment, shift the transmission to N or P, and pull up the parking brake lever.
- Connect positive terminals "+" of two batteries with jumper wire.
- The second wire is used to connect the negative terminal "-" of the external battery to the ground point of the engine or transmission on the vehicle to be started. Never

connect this jumper wire to any other part on the engine.

Caution

Do not connect the negative terminals of the 2 batteries directly. If the external battery is mounted in another vehicle, avoid accidental contact between the metal parts on this vehicle and those on the vehicle with a low-voltage battery.



- Start the engine. If the engine still runs slowly, please check the connection of jumper wire to ensure sound contact between metals.

Tip

Don't connect negative terminals of two batteries directly. If auxiliary battery is mounted on another car, please prevent the accidental contact between metal parts of this car and the other with low voltage battery.

Check engine light comes on

When the check engine light illuminates, it indicates that a control system of the engine may have a malfunction and that the engine is working under abnormal conditions. Extended operation in this state may result in serious engine damage.

When the check engine light illuminates, pull over safely, pull up the parking brake lever, and turn off the engine. Restart the engine, and observe this indicator light. If the check engine light remains on, please drive to a Haima Automobile Sales Service Shop for inspection and troubleshooting as soon as possible.

Exhaust failure warning light lightens

When the check emissions light in the instrument cluster illuminates, it indicates that an emission control system of the engine may have a malfunction. If not removed, the trouble may reduce fuel economy of your vehicle and aggravate emissions pollution, even result in serious engine damage.

If this happens, please pull over safely, pull up the parking brake lever, and turn off the engine. Restart the engine after 5 minutes, and observe this warning light. If it remains on, please contact a Haima Automobile Sales Service Shop as soon as possible.

Engine oil pressure warning light comes on

During normal operation of the engine, the engine oil pressure warning light should not illuminate.

If it lightens when the engine is running, it is indicated abnormal oil pressure, which should be checked immediately; otherwise, the low oil pressure shall result in mechanical damage.

Take emergency measures as follows:

- Drive the car carefully to the road side, turn off the engine and pull up the parking brake handle.
- Allow the engine to cool for approx. 5 minutes, and then open the engine hood

to check oil level. Although oil level shall not directly influence the oil pressure, the low oil level shall make the oil pressure reduced under turning or other driving operation. Start the engine, and observe the engine oil pressure warning light. If the warning light does not go out within 10 seconds, please turn off the engine immediately and contact a Haima Automobile Sales Service Shop.

Tip

It is normal when the engine suddenly turns from high load running to idling, the engine oil indicator light may flicker, and then go out under slight acceleration.

Charging system warning light comes on

If the charging system warning light illuminates during normal operation of the engine, it indicates that the charging system has stopped charging the battery. This is abnormal. Then, turn off all electrical accessories immediately and stop use of other power-driven devices such as power windows so as to allow the engine to continue operation. Important: Do not allow the engine to stall, because restart will consume a lot of electrical energy. In such a case, you should drive to a Haima Automobile Sales Service Shop for testing.

Inspection and replacement of fuse

All circuits on your vehicle are equipped with fuses to protect electrical equipment from damage caused by short circuit or overload.

The fuses of the electrical system are installed in 2 fuse blocks respectively:

- Passenger compartment fuse block, located on the left front lower part (under the dashboard) inside the vehicle
 - Engine compartment fuse block, located on the left side inside the engine compartment
- If any lights, accessories, or controls do not work, inspect the appropriate

circuit protector.

If a fuse has blown, its inside wire will be melted.

If the replacement fuse blows again, avoid continued use of that electrical equipment and contact a Haima Automobile Sales Service Shop as soon as possible.

Tip

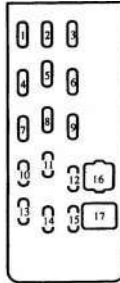
Fuses are protectors of automotive electrical equipment. If a fuse blows frequently, there is a problem in the electrical equipment or circuit it protects. Though being a minor problem, it may develop into a major one and can not be ignored. Instead, you must drive to a Haima Automobile Sales Service Shop for inspection and troubleshooting.

Passenger compartment fuse block

If the electrical system in the passenger compartment is inoperative, check the passenger compartment fuse block first, and then replace the blown fuse.

- Turn off the ignition switch and other switches.
- Open the fuse block, and pull the fuse out with the fuse puller attached to the block.
- Inspect fuses, and replace the blown one.
- Insert a new fuse of the same amperage rating, and make sure it fits tightly.

If you have no spare fuses, borrow one of the same rating from a circuit not essential to vehicle operation.



Description		Fuse rating	Protected component
1	S/WRM	-	-
2	-	20A	
3	(RADIO)	15A	Audio system and cigarette lighter
4	(A/C)	15A	A/C system and sun roof
5	(R.WIPER)	10A	Rear wiper and rear-view mirror adjustment switches
6	-	-	-
7	-	-	-
8	ROOM	10A	Protect multiple circuits.
9	(MIRR DEF)	10A	Rear defrost system
10	-	-	-
11	(DOOR LOCK)	30A	Power door lock and power seat (auxiliary)
12	(P/WIND)	30A	Power window
13	(WIPER)	20A	Wiper and washer
14	(ENGINE)	10A	Engine control system and central remote control system
15	METER	10A	Multiple circuits for meters, etc.
16	-	-	-
17	(P/WIND)	30A	Power window

Engine compartment fuse block

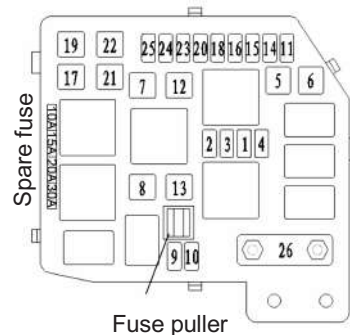
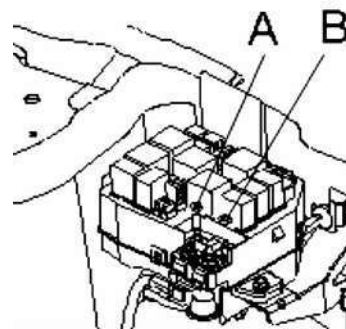
If the passenger compartment fuse block is OK, but some electrical components are still inoperative, you must check the fuse block under the engine hood. If a fuse is blown, it must be replaced.

- Turn off the ignition switch and all other switches.
- Disengage the fuse block cover retainer from its both sides, and open the fuse block cover. Remove the fuse block cover.
- If any fuse is blown, remove it with the fuse puller, and replace it with a

spare fuse of the same amperage rating and specification.

When replacing a 125A fuse, follow these steps:

- Turn off the ignition switch.
- Remove the battery negative cable.
- Remove the nuts A and B.
- Replace it with a new fuse of the same amperage rating and specification.



Tip

The engine compartment fuse block mainly protects the engine and the electrical equipment in its related systems as well as all lamps outside of the passenger compartment.

Description		Fuse rating	Protected component
1	F. FOG LAMP	10A	Front fog light
2	HIGH BEAM	15A	High beam
3	LOW BEAM	15A	Low beam
4	TAIL	15A	Small lights
5	ECM	40A	Engine ECU
6	FUEL PUMP	20A	Fuel pump
7	FAN1	20A	Cooling fan
8	FAN2	20A	Cooling fan
9	HORN	15A	Horn
10	A/C	10A	A/C compressor
11	ABS1	20A	ABS
12	ABS2	40A	ABS
13	IG KEY	60A	Ignition switch
14	DEFROST	30A	Defrost
15	BRAKE	7.5A	Brake
16	HAZARD	15A	Hazard warning light
17	BTN	60A	Interior lights, power door locks, cigarette lighter, door windows

Description		Fuse rating	Protected component
18	4WD	10A	4WD conversion
19	(BLOWER)	30A	Blower
20	AUTO SEAT	20A	Power seat
21	--	--	--
22	--	--	--
23	--	--	--
24	--	--	--
25	--	--	--
26	MAIN	125A	All circuits are protected

Brake system warning light lightens

Brake system warning light has there warning functions as follows.

Parking brake warning

With the ignition switch ON, this warning light illuminates after the parking brake lever is pulled up. It goes out after the parking brake lever is released.

If warning light remains on after the parking brake lever is completely released, it indicates that the service brake system has a problem. Then you need to further inspect it.

Brake fluid level warning

If the brake pedal is hard to apply or can be stepped down with little force, the braking distance shall be lengthened and warning light shall lighten.

- Pull over, pull up the parking brake lever, and turn off the engine. Check brake fluid level, and add brake fluid as needed.
- Recheck the brake system warning light after replenishing brake fluid.
- If the warning light remains on, it indicates that the ABS has a malfunction.

Anti-lock warning

This warning light shall lighten in case of failure in ABS system.

ABS system failure shall directly influence the working performance of brake system (especially on wet and icy road surfaces), and shall further result in wheel lock. Under such condition, please stop driving and consult Haima Automobile Sales Service Shop immediately.

ESP System Warning

ABS warning on the car with ESP is the same as the car only with ABS.

When TCS, ESP systems or sensors are indicated the malfunctions, the ESP multi-function warning light will light, TCS and ESP systems will lose function, but the ABS system will remain normal function.

When the ESP multi-function warning light is lighting, the driver should not do any operation which may cause the unstable situation of vehicle, and need to contact Haima sales & services shop as soon as possible.

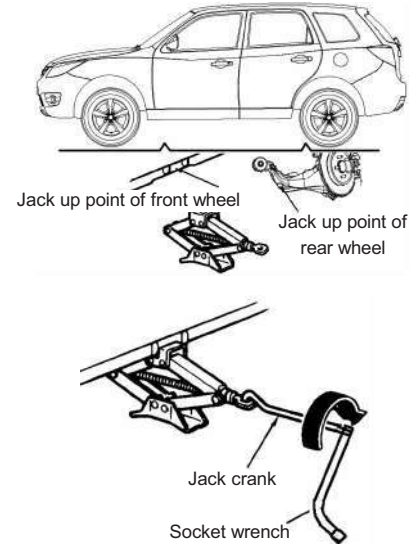
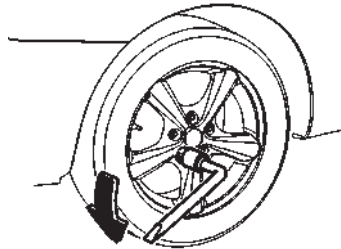
Caution

If steering wheel angle sensor is discharged from steering column, the sensor must be initialized and steering wheel must be aligned. Otherwise, ESP multi-function warning light will light, TCS and ESP function will be canceled. To initialize sensor, please contact Haima sales & services shop.

Replacing a wheel

- Park your vehicle to a spacious roadside, pull up the parking brake lever, turn off the engine, and turn on the hazard warning light. Take out a warning triangle and place it approx. 30 m (during night driving or on highways, 100 m) behind the faulty vehicle.
- Use the driver tools to take out the spare wheel.
- Remove the core cover, and loosen the nut counterclockwise 1.5 turns without removing it.
- Take out a jack and put it under the lower body side rail. When removing a front

wheel, align the lower body side rail; when removing a rear wheel, align the boss under the suspension arm. Then, jack up the body slowly by turning the jack crank and a socket wrench. Completely loosen the nut of the wheel with a flat tire, and remove the wheel assembly.



- Replace with the spare wheel, and hand tighten the nut.
- Lower the body, remove the jack, tighten the nut to the specified torque using a socket wrench, and install the core cover.
- Place the removed wheel assembly, jack, and driver tool bag to the designated positions in the trunk and secure them properly.

Driving accident

Try your best to avoid accident during driving, if any happens, please remain calm and deal with it as per traffic regulation.

Emergency treatment

- In the event of an accident, turn off the engine first, turn on the hazard warning light, and place a warning triangle correctly.
- If the door is blocked, please don't try to break down the front windshield (for the glass is laminated one), you can get out from the broken door window or rear windshield.
- Call the traffic management department; you can use

the special purpose telephone on the roadside if you are on the expressway.

- If rear end collision happens on the expressway (there is high risk of being collided by succeeding car especially under the condition of poor visibility). Under such circumstance, please leave the car immediately and evacuate to the outside of guardrail quickly.
- If you smell fuel or other chemical products, do not smoke.
- In case of fire, use fire extinguisher, blanket or sand to put out fire. Never use water.

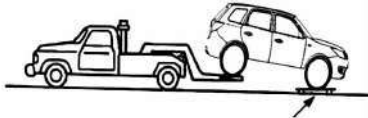
Helping the wounded

- Anyone has the moral right to help the wounded. Please dial 120 (emergency service call varies in different countries) asking for first aid.
- Loosen or cut off the seat belt of the wounded.
- Don't provide any food or beverage for the wounded in common situation, except waiting for quite a long time.
- The wounded can be moved out of the car only under such dangerous situations as on fire, water inlet, falling off cliff or similar. When moving the

wounded out of the car, don't pull arms and legs or bend his/her head, and try to keep his/her body flat.

Towing (MT)

- In such cases as car breakdown and accidents, the car can not travel or continuous driving is not advocated, therefore, the following methods are adopted when transferring the car with trailer.
- To ensure correct towing so as to avoid damage to your vehicle, you had better use a towing service. When towing, keep the driving wheels (front wheels) off the ground, as shown in the figure.



Small platform truck



- Note if the steering system and transmission system is in good condition during towing; if there is any damage, small platform truck must be adopted for towing.
- There are towing hooks both at front and rear part of car; for short distance transferring, use wire rope to connect the car with the other car for towing.

- Before towing, switch the ignition switch to ACC gear, set the shift lever on N-position and release parking brake.

Tip

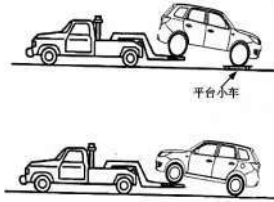
Using wire rope to connect the car with the other car for towing can only be applied on flat road surface and straight traveling of rear and front car with speed below 10Km/h. Please avoid sudden braking during travel, otherwise, the towing hook can be easily damaged.

**Trailer Towing (AT)**

Before towing the car with automatic transmission, you need to check the transmission oil position first, if the oil position is lower than the "HOT" mark on the dipstick; you need to inject ATF (Automatic Transmission Fluid). If you can not inject any ATF, you should use the platform car.

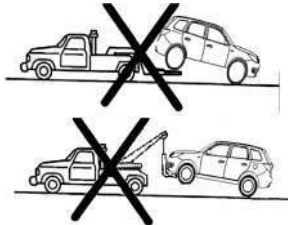
Reminder

The gear lever must on the N position, the towing speed should not exceed 40km/H (25 mph) and the towing distance should not exceed 25km (15 miles)



Reminder

Please do not towing the car form trail while the front wheels on ground that may cause the damage of the car. Please do not use crane to tow the car, you should use wheel lifter or flat-bed devices.



Emergency Special Towing

Driver should be in the car, control the steering wheel and brake pedal. This measure should be only used on the hard road with low speed and short distance. There the wheels, axles, steering system and brake system must in the good condition.

The following points should be noticed:

- Do not use the towing hook to pull out the car from mud, sand or any other kinds of road which the car can not running in.
- Do not towing the cars that are heavier yourselves
- The two related drivers should frequently communicate to each

other.

- Before the emergency towing, please check if the towing hook is cracked or damaged
- Fastening the towing rope or chain to the towing hook
- Do no yank the towing hook, please make the towing hook under the stable force
- To protect the towing hook please do not pull it form inner side or vertical direction, please keep pulling it from horizontal direction

Detail Operation Procedures

- Use not more than 5m (16 foot) towing rope, and tie a 30 cm (12 inch)wide, white or red colored cloth strip in

the central of the rope to notice the around people.

- Be careful during the towing, in case the towing rope may accidentally released

1. Turning steering wheel to the position ACC to avoid the steering wheel may be locked
2. Pulling gear lever to the position N
3. Release the parking lever
4. As the brake function of the car is become weaker during the towing, please stepping the brake pedal with more strength than normal condition
5. As the power steering system can not be used during towing, please turning the direction with more strength than normal condition

6. During the long distance downhill driving, brake device may become weaker in function because of overheated, in this case, please stop the car and let the brake device become cooler

Caution

If towing the car while four wheels of the car on ground, you can only towing the car in forwarding direction. The gear lever must on the N position, the towing speed should not exceed 15km/H (9 mph) and towing distance should not exceed 1.5 km (1 mile). Turning steering wheel to the position ACC to avoid the steering wheel may be locked and the driver should be in the car, control the steering wheel and brake pedal.

Technical Data

Geometric Parameters of Car

Item		Unit	Data
Overall length		mm	4421
Overall width		mm	1830
Overall height	No load	mm	1690/1740 (with luggage rack)
	Full load	mm	1650/1700 (with luggage rack)
Wheelbase		mm	2619
Tread	Front wheels	mm	1532
	Rear wheels	mm	1522
Min. ground clearance	MT	mm	185 (no load) /160 (full load)
	AT	mm	195 (no load) /170 (full load)
Approach angle / departure angle (no load)		Degree	24/26
Min. turning diameter		m	10.8

Quality Parameters of Car

Engine	HM484Q		HM484Q-A	
Transmission	MT		AT	
Model	TA、TB、TC、TF、TG、 TJ、TK、TP、TQ	TH、TL	TD、TE	
Curb weight	kg	1435	1480	1495
Front axle	kg	850	880	885
Rear axle	kg	585	600	610
Full load mass	kg	1810	1855	1870
Front axle	kg	938	961	1010
Rear axle	kg	872	894	860

Engine Parameters

Transmission Parameters

Engine model	HM484Q、HM484Q-A
Cylinder number and type	In-line 4-cylinder
Valve number of each cylinder	4
Diameter × stroke (mm)	84× 90
Total displacement (cm ³)	1995
Compression ratio	10:1
Max. output/engine speed (kw/rmp)	110/6000
Max. torque/engine speed (Nm/rmp)	180/4500
Idle speed (rmp)	750± 50
Spark plug gap	1.0~1.1mm

Transmission	MT	AT
Speed ratio Gear I	3.583	3.939
Gear II	1.947	2.093
Gear III	1.379	1.349
Gear IV	1.030	0.962
Gear V	0.820	0.713
Reverse gear	3.363	3.347
Final drive ratio	4.5882	3.942

Lubricant Grade

Lubricant Grade	Category
Engine oil	SAE 10W-30; API Service SL grade or above
Manual transmission oil	Any temperature API Service GL-4 or GL-5 (SAE 75W-90) 10°C (50° F) above API Service GL-4 or GL-5 (SAE 80W-90)
Automatic transmission oil	Diamond ATF SP-3 or SK Energy ATF SP-3
Power steering gear fluid	DEXIRON IID, ATF-IID, or ATF220
Brake/clutch fluid	SAE J1703 or FMVSS116 DOT-3

Starter Parameters

Rated power (KW)	1.1
Rated voltage (V)	12
Rated time (S)	30

Generator Parameters

Nominal voltage (V)	12
Output current (A)	110
Using temperature range (°C)	-35~110
Polarity	Negative earthed
Allowable max. rotate speed (r/min)	18000

Battery Parameters (75D23L)

Rated voltage	V	12
5HR capacity	AH	52
RC	MIN	118
CCA	A	520
Weight	Kg	16

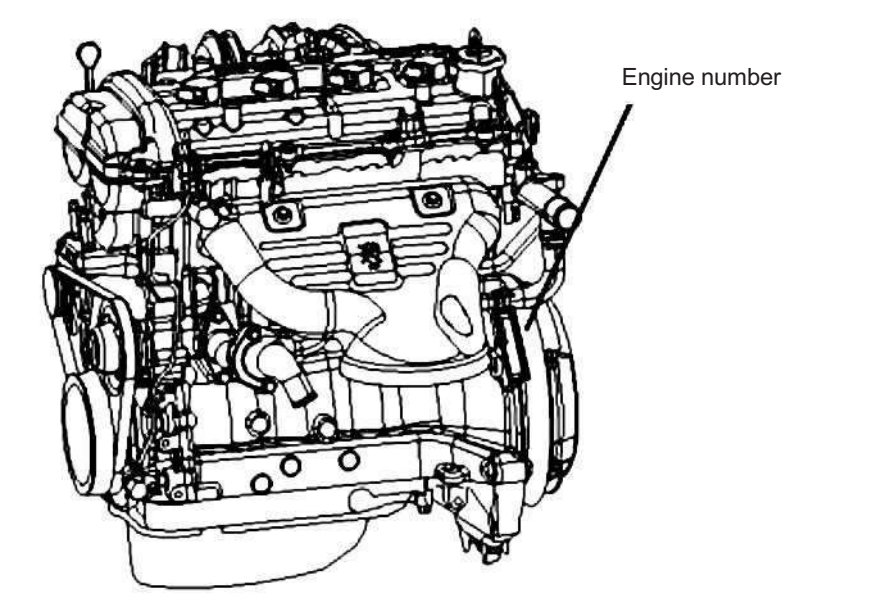
**Capacity of Various Equipments
(Approximate Value)**
Wheel Assembly Parameter

Item		L
Engine oil	With oil filter	3.3
	Without oil filter	3.0
Engine oil	With A/C heater	6.8
	Without A/C and heater	6.2
Transmission oil	Manual transmission MT	2.1
	Automatic transmission AT	7.6
Fuel tank	61± 1L	

Rim model	16× 6.5JJ	16× 7JJ	17× 7JJ
Tyre specification	P215/70 R16	235/70 R16	P235/65 R17
Front tyre pressure kpa	230	230	230
Rear tyre pressure kpa	230	230	230
Spare tyre pressure kpa	230	230	230

Location of Engine Number

The engine number is stamped on the inclined plane at the back end of cylinder body, open the engine hood and you can see it.



Location of VIN (Vehicle Identification Number)

- ① On front windshield glass and at left leading edge of dashboard.
- ② On upper front panel at lower right corner of front windshield glass (observed only when engine hood is opened)

