

This manual puts emphasis on the use of vehicle and maintains the procedure list which is needed when selling the automobile to the next owner.

Owners Proof	
Original:	Name: _____
Address:	Street: _____
	City: _____
	Nationality: _____
	Post code: _____
Sale date: _____	
Secondly:	Name: _____
Address:	Street: _____
	City: _____
	Nationality: _____
	Post code: _____
Sale date: _____	



All information in this owner's manual is current at the time of publication.

However JAC reserves the right to make changes at any time so that our police of continual product improvement may be carried out.

This manual applies to all current JAC models and includes description and explanation of option as well as standard equipment. As a result, you may find material in this manual that does not apply to your specific vehicle.

Maintenance Key Points

Maintenance requirements of JAC SRV automobile are recorded in section 6 of this manual. As an owner, you have the responsibility to read the correct maintenance method provided by manufacturer. When running in bad environment, the vehicle needs more and better maintenance.

Maintenance knowledge for driving in bad environment is also recorded in section 6 of this manual.

FOREWORD

Thanks for choosing JAC SRV. Welcome to be a formal owner of JAC SRV. JAC prides in owning advanced technology and high quality automobile.

This owner manual provides correct use method for driving your automobile more safely and comfortably. You must read this manual carefully, and we hope you can be fully satisfied with your automobile. JAC group will provide all repair and maintenance procedures for you. JAC agents are prepared to provide high-quality service, maintenance and all necessary help you need.

ANHUI JIANGHUAI AUTOMOBILE CO., LTD.

Precaution: The original owner should give this manual to the next owner after selling the automobile, because the next owner still needs this manual. Thanks.

Note: Damage of engine and gearbox caused by bad-quality fuel and lubricant is irrelevant to JAC. You must use good-quality fuel and lubricant. Related information is recorded in page 140 of section VEHICLE SPECIFICATION of owner manual. Copyright is owned by JAC. Without permission of our company, printing, copying or amending of any part or all contents are forbidden.

Note: Modifying your vehicle

Modified components are not in the range of manufacture maintenance.

In any case, you can't modify your vehicle. Modification can affect the safety, durability or other performance. Modified components and additional spare parts needed due to normal damage are not in the guarantee range of manufacturer.

SAFETY AND VEHICLE DAMAGE WARNING

This manual includes information titled as Warning, Caution and Note.

These titles indicate the following:

 Warning:

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

Caution:

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

Note:

This indicates that interesting or helpful information is being provided.

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Characteristics of JAC vehicle

Characteristics of JAC vehicle

Fuel specification: use unleaded gasoline



JAC vehicle can only use unleaded gasoline above 93#. If you use leaded gasoline, the catalytic sensor will be damaged and more maintenance cost will occur. To avoid using leaded gasoline by mistake, do not insert nozzle carrying leaded gasoline into the fuel tank.

Do not use methanol

JAC vehicle can not use methanol, because that fuel can reduce the automobile's performance and destroy the components of fuel system.

Caution:

- ◆ If methanol fuel or fuel containing methanol is used, so that the vehicle is damaged or there is problem in the driving performance, you can not apply for guarantee as per the original guarantee policy.

Use gasoline to protect environment, please

To produce cleaner air, JAC company recommends use of gasoline. This is because clean air can make the

engine and exhaust emission control system work normally.

Drive overseas

If you will drive the JAC vehicle outside the country, please note the following:

- ◆ Affirm all the certificates (license, insurance policy, etc.).
- ◆ Affirm if fuel is sufficient.

Run-in period 2000 km

This vehicle does not need special run-in, but within the original 2000 km, obeying the following notes can improve performance, oil and service life of the vehicle.

- ◆ Do not drive beyond 88 km/h.
- ◆ When driving the vehicle, keep the engine speed between 2,000 and 4,000r/min.

- ◆ Use normal acceleration. When starting the vehicle, do not step the throttle pedal home.
- ◆ Within the first 300km, try not to brake sharply.
- ◆ Do not pull the engine hard (do not drive at high speed at 1-2 low speed gears).
- ◆ Do not drive at too high or too low speed for a long time.
- ◆ When driving within the run-in period (2,000 km), avoid towing the automobile.

Key



To provide optimal advantage, the same key can lock all the doors. But because the door can be locked without key, please take a key in your pocket.

Remember the key code



Key code is printed on the number plate in the key groups. Do not put the number plate and key on the same key ring. They should be put in a safe place. At the same time, record the number and put it in safe, convenient place (excluding in the car). If you need additional key, or your key is lost, you can get another key from the agent authorized by JAC. But you must provide the key code to the agent.

Theft-proof system

- gasoline engine
Theft-proof system is a device that prevents the automobile being stolen.



Illumination type ignition switch



When the door is open, the ignition switch will illuminate to inform you that the ignition switch is not in "ON" position. When the door or the igni-

tion switch is closed, the light will stop in 10 seconds.

Door lock



Warning:

- ◆ When parking the automobile alone, please confirm if the door is locked. When you use the safety belt, in case of an accident, the safety belt device can protect the passenger from being ejected.
- ◆ Before opening the door, please pay attention to the surrounding to avoid accidental impact with vehicle behind.

Operate the front door with key



- ◆ The door can be operated by key.
- ◆ With regard to front door, turning left, the door is open; turning right, the door is locked.

Operation without key



Without using the key, put the button in the door to "LOCK" position (to the rear side of the vehicle), and when the red warning light of switch is off, the door can be closed. Under the condition that front door is closed and the key is in the ignition switch, do not lock the door.

Note:

- ◆ When locking the door, do not leave the ignition key in the vehicle.
- ◆ To avoid theft, you must take the ignition key with you and close all windows & doors.

From inside the door



Put the button in the door to "LOCK" and "UNLOCK" position, you can lock and open the door. When the door is locked, the door lock inside and outside the vehicle can both be used.

Note:

- ◆ After closing the door, the red warning light will extinguish.

Child safety lock in rear door



Your vehicle is equipped with child safety lock in rear door. You should lock the rear door, to ensure that it can not be opened from inside. This manual recommends using this device with child in the rear seat. To ensure that it can not be opened from inside, you must press the child safety lock in the rear door to "🔒" position. If you want to open the

Characteristics of JAC vehicle

door, operate the child safety lock in the reverse "🔒" position.

Body center lock



Center lock switch is mounted on the handle holder of driver seat. When the switch is on, the door is open; when the switch is off, the door is close.

Note:

- ◆ When pressing down the "LOCK" button of the switch, all the doors are locked.
- ◆ When pressing down the "unlock" button, all the doors are open.

Automatic door lock by speed sensor

When the speed exceeds 40 km/h in 23 seconds, all the doors will be locked automatically.

Warning system(if installed)

The system is designed to prevent entry without permission. This system can be operated by the following

steps: the first is "setting", the second is "warning", and the third is "relieving". If the vehicle is touched, the system will sound.

"Setting"

Park the vehicle and stop the engine.

Set the system as the following:

- 1) Pull out the key from ignition switch.
- 2) Confirm if the engine compartment and boot are locked.
- 3) Use the remote controller to lock the door.

After finish the said procedure, the turning indicator will remind you that the setting is finished.

Note:

- ◆ If some door, rear door or engine compartment is open, the system can not be set.
- ◆ If such case, eliminate the system as per the said procedure.

Caution:

Do not set this system when passengers are in the vehicle. If you set, the warning will start after the passenger leaves.

"Warning"

◆ When parking the vehicle after the system is set, the alarm will function in the following situation.

- 1) Front/rear door are opened without using remote controller.
- 2) The boot is opened without using remote controller.
- 3) The engine compartment is opened.

Alarm will sound, and the turning indicator will flash for 27 seconds. You can lock the door or boot with remote control, thus to close this system.

Caution:

When setting the system, do not start the engine.

"Relieving"



Note:

◆ After relieving the system, there is no other new setting procedure except repeating setting procedure.

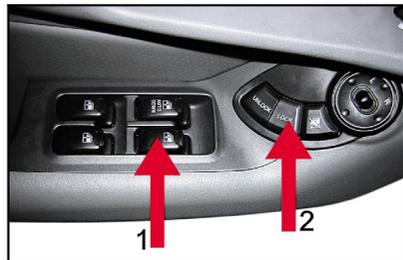
Caution:

◆ Only the remote controller can relieve the installed system. If remote controller fails during the installing phase, you can carry out the following procedure:

1. Use the key to open the door. At this time, the warning will be activated.
2. Put the key into ignition switch, and turn to "ON" position.
3. Wait for 30 seconds.

Finishing the said procedure, the system will be relieved.

Power window



The power window can be operated only when the ignition key is in "ON" position. Each door has a power window switch to control window. Main switch of power window at driver seat can be used to control the passenger power windows. Pressing down switch (1) can open the cab window. The opening degree of window can be adjusted by switch. Lifting the power window

switch can close the window. To avoid the passenger operating the window randomly, you can press down switch (2) in main control seat to lock the window. To relieve the function of power window, please press the lock switch. Pressing the window control switch, wait a moment, the system will resume its function. After the ignition switch is in "ACC" or "LOCK" position for 30 seconds, the power window can be operated. But when the front window is open, power window can not function.



(1) Before close the window, please confirm if there is arm or other barrier on the window.

(2) Do not operate the main control button in the driver seat and individual window switch at the same time. If you do that, the window will stop functioning and it will be difficult to open or close.

(3) Do not leave the child in the vehicle alone. You must take away ignition key to ensure safety.

Adjust the front seat



Warning:

◆ Do not adjust seat when the vehicle is running. If you do that, serious injury or death will be caused.

Move seat back and forth



If you want to move the seat back and forth, please lift the adjusting lever of seat and hold it. Slide it to the desired position, then release the lever and confirm locking of the seat.

Adjust front seat back rest



Incline forward a little, and pull backward the link which is near the seat. Incline the seat backward and adjust to the desired position. After positioning, undo the link.



Warning:

◆ When the vehicle is running, do not make the front seat in tilt position, to reduce the sliding of the knee/shoulder safety belt and serious hurt in case of collision. Otherwise buttocks of the passenger may slide below the knee/shoulder safety belt or slide out of the safety belt, and the passenger can not be secured properly. In addition, the safety belt may apply force to

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the unprotected belly, causing serious personnel hurt. So when the vehicle is running, the seat should be kept in comfortable upright position.

Adjust head rest



Head rest is designed to reduce the hazard of harm of head and neck. If you want to raise it, you can lift it to appropriate position.
If you want to lower it, you can press

down the release rod, and put head rest to desired position.



Warning:

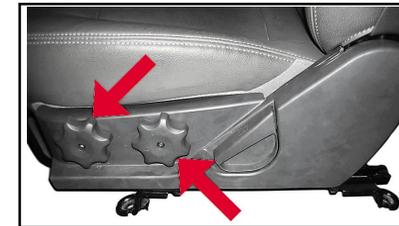
- ◆ In order to reduce the harm of head and neck, you must adjust top of head rest at the same height with ear top. So, your body can not leave the seat back .
- ◆ When driving the vehicle, if you have no head rest or the head rest is modified, serious traffic accident can occur. Adjusting head rest will protect your head and neck.

Seat back control (on the driver seat)



Adjusting the seat back control, in order to increase weight of seat back, put the adjusting rod to rear position.

Adjust the height of driver seat cushion (in the driver seat)



Turning the front adjusting button can adjust the seat cushion facing front of vehicle. Turning the back adjusting button can adjust the seat cushion facing back of vehicle.

Storage tank



Storage tank is installed under the co-driver seat. Pulling forward can open the storage tank.



Warning:

- ◆ To avoid hurting during accidental braking or emergency braking, the storage tank should be in closed condition.

Warning on rear seat



For the safety of passenger, the goods in the rear seat can not ex-

JAC

ceed the top of seat back.
Folded rear seat back and seat cushion



For convenience, the seat back and the seat cushion can be folded.

1. Fix the fastener of seat safety belt.
2. Disassemble head rest.
3. Pull out safety belt and fold seat cushion forward.
4. Release seat back and pull safety belt over the seat back, and pull down the seat back.

5. From lower side of seat cushion, hook the fastening ring on the ear at back of seat back.

6. Insert head rest between seat back and seat cushion.

7. Put the seat back to its original position, push the pitch control lever and reverse above procedure.

After the seat back is returned to its original position, push or pull the seat back to confirm if it is locked.

Precautions on safety belt

Driver and all passengers should fasten seat belt at all times. Correct use of safety belt can reduce accidental hurt or death caused by incidents or emergent braking. The following shows relative details:

Protection of infant and child

Some countries require use eligible child safety system. We strongly recommend use of child protection seat or infant protection system for the infant or child who is below 18 kg.

Note:

- ◆ When an incident happens, the little children should be protected by correct method of using of this system.

Protection of elder children

If the child is too old to be protected by child protection system, the safety belt should be used. When the child is in the rear seat, knee/shoulder safety belt should be used. If elder child (beyond 13 years old) is in the front seat, the safety belt should also

be used.

Do not make the child stand or kneel on the seat. In case of an incident, use of the child protection system can provide the best protection at this time. You'd better not make the child be in the front seat.

Protection of pregnant woman

Pregnant woman should obey doctor special instruction to use knee/shoulder safety belt as much as possible. Knee belt should be comfortable and as lower as possible.

Protection of the wounded

When sending the wounded, the safety belt should be used. If necessary, consult the doctor.

One safety belt for one person

One safety belt can not be used for

one child and one adult or two children; otherwise traffic accident can be more serious.

Lying in the seat

In order to reduce incident rate and be protected by protection system, all passengers must sit in the seat upright and the front seat should be in normal upright position. If passenger lies in the rear seat or the front seat is inclined, the safety belt will be out of function.



Warning:

- ◆ When the vehicle is running, sitting inclined or lying is very dangerous, even if the fastener is tied, the safety belt will not function. When the vehicle is col-

lided, your neck or other parts will be hurt seriously. Knee safety belt will lose its function, too. If collided, abdomen safety belt may slide over abdomen and hurt your pelvis. For your safety, please make the seat upright.

Safety belt protection system

Safety belt system can not be disassembled or modified. Please confirm the quality of safety belt and other components.



Warning:

- ◆ When adjusting the rear seat to upright position, operate the buckle or fastener carefully. Do not leave the buckle or fastener in the rear seat.

Periodic inspection

Inspect all safety belts and all parts for wear or damage periodically. Replace damaged, excessive worn components duly.

Cleaning the safety belt

Please keep the safety belt clean and dry. It can be washed with soap that is used for cleaning of furniture or carpet, and warm water. Do not use bleaching agent, which can weaken the fiber of bucket, so that in case of heavy impact, the belt can not support load.

Replacing safety belt

For vehicles that have encountered traffic accident, all the safety belts should be replaced, even if they are not damaged. For more details,

please contact JAC dealer.

Adjust the height of shoulder harness in front seat



Adjust the shoulder harness to appropriate position. If the safety belt is near your neck, you can not be protected safely. The safety belt should be across the middle section between chest and shoulder.

But do not let the shoulder harness be across the neck. To raise the fixing seat, you can press down the

button and pull the fixing seat upwards. To lower the fixing seat, you can press down the button and slide down the fixing seat. Confirm the fixed condition.

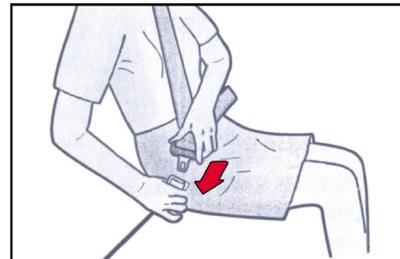


Warning:

- ◆ When the vehicle is running, the height adjuster must be locked.
- ◆ If the shoulder harness is not adjusted properly, the safety belt will be easy to wear.

Safety belt - three point safety belt locking type expansion device of driver seat

Fasten the safety belt.



Tie the safety belt, pull out safety belt tongue from expansion box and insert into the snap ring until you hear a "ka" sound.

After adjusting the knee belt, the safety belt will form appropriate length automatically. The tensile force in safety belt expansion box can automatically absorb excessive belt and keep the tensile force. For safety, do not pull the safety belt exces-

sively to make it loose.

Adjust the safety belt

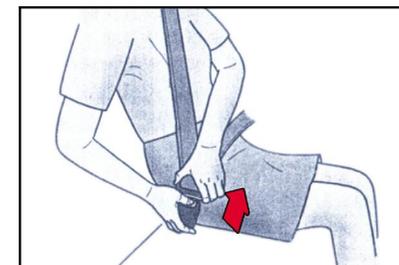


The knee belt should be lowered to buttocks as much as possible but not the waist. If too high, it will slide in case of accident.

The arm can not be below or over the safety belt.

As shown in the figure, one shall be upwards, and the other downwards.

Undo the safety belt

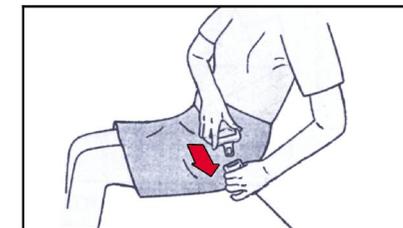


Press down the loosening button on the buckle. After being undone, the safety belt will return to expansion box automatically.

If it does not return automatically, check the safety belt for knot and repeat the operation.

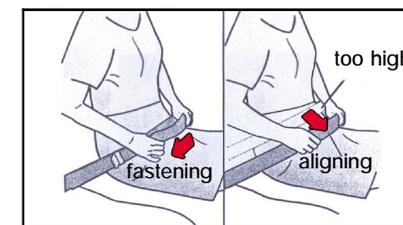
Safety belt (two point static type)
(in the center of rear seat)

Tie the safety belt



Tie the two-point static safety belt, and insert the tongue into the buckle until you hear a "ka" sound. Check the locking condition and for knot of safety belt.

Adjust safety belt



Two-point static safety belt must be manually adjusted to appropriate length. Tie the safety belt. The safety belt should be lowered to buttocks but not haunch. If too high, it will cause hurt during accident

Undo the safety belt



For undoing the safety belt, you can just press down the loosening button on the buckle.



Warning:

◆ Center knee belt is different from other belts. So, when tying rear seat shoulder harness or center knee belt, you must confirm that the safety belt has been tied completely.

Safety belt pretensioning unit



Safety belt pretensioned belt is installed in the driver seat and front seat. The aim is to protect the driver

and the passenger in the front seat in case of serious impact. In such case, the pretensioned safety belt in the front seat and the air bag will operate at the same time.

Operation principle of pretensioning unit is the same as emergency-locking retractor (ELR).

When the vehicle brakes for emergency or the tire inclined forward rapidly, the expansion unit of the safety belt will lock. However, in case of serious impact, the pretensioning unit will operate and strain along the opposite direction of driver.

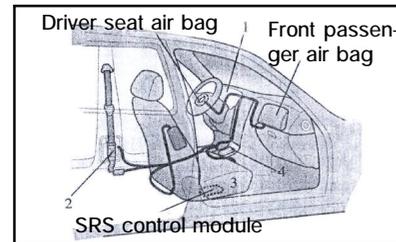
Pretensioned safety belt includes the following units.

For example:

1.SRS air bag warning light

2.safety belt pretensioning unit

3.SRS control components



Warning:

◆ To obtain optimal protection from pretensioned safety belt:

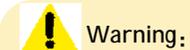
- 1.The safety belt should be in correct position
- 2.The safety belt is in good condition without damage.

One SRS air bag is installed under the central cushion of steering wheel. The other one is installed over the

front passenger glove box. The aim is to provide the best and perfect protection for the driver and the passenger.

Note:

◆ Please read the SRS documents on the rear side of sun visor and in the glove box.



Warning:

◆ SRS will operate along with driver seat/front passenger safety belts as an auxiliary device. It can by no means replace safety belt. So the safety belt must be durable equipment.

◆ When suffered serious impact or impact angle of the vehicle (forward) is below 30°, SRS will

undo the air bag to inflate. Air bags will never inflate due to internal or rear impact or impact generated by rolling. In addition, air bag can only be used once. So the safety belt must be durable equipment.

◆ The driver should keep away from the steering wheel as much as possible. If the distance is too small, hurt or death may be caused upon inflating.

◆ Do not put articles on or near the steering wheel air bag and instrument panel, otherwise the air bag inflating can cause serious hurt, even death.

◆ After the air bag inflation, authorized dealer of JAC should

carry out the replacement work.

- ◆ Do not change the equipment and wiring of air bag, otherwise the air bag will inflate abnormal, thus to hurt persons or make the system lose its function, so that the air bag can not inflate in case of an accident.

- ◆ Do not install child protection system in the front passenger seat.

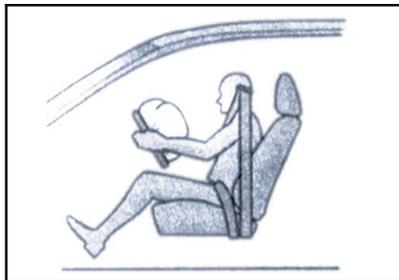
When an accident happens, expanded air bag may hurt the infant or child. Do not make the child in the front seat. Elder child (older than 10 years) can sit in the front seat. You should confirm they are in safe position.

In addition, air bag can only be

used once. So the safety belt must be durable equipment.

- ◆ To obtain more protection, all the passengers and driver should use safety belt. If safety belt is not used, air bag can also protect you. But do not sit too near the air bag.

Composition and function of SRS



Main parts of SRS are:

- air bag in steering wheel
- air bag in the front instrument panel
- knee cushion
- SRS air bag warning light
- SRS control component (SRSCM)

When the key of ignition switch is in "ON" position, SRSCM detects all the components persistently and determines if air bag should be inflated.

Note:

- ◆ Pretensioned safety belt in the driver seat and front seat will act under serious impact. Under sufficient impact, pretensioning unit and air bag will act together.

- ◆ When starting the pretensioned safety belt, you will hear noise and see the dust in the smoke. But this phenomenon means no danger.

- ◆ Though no danger, the dust can make the skin sensitive. So after the air bag splays, you should wash your face and hands completely with warm water or warm soap.

Caution:

- ◆ Based on the operation of SRS air bag sensor that is linked with pretensioning unit, SRS air

bag warning light on instrument panel will illuminate for 6 seconds after the ignition switch is in "ON" or "ACC" position.

- ◆ If the safety belt pretensioning unit does not operate under appropriate condition, the warning light will illuminate continually without reference to the SRS warning light fault. If the SRS air bag warning light does not illuminate when the ignition switch is in "ON" or "ACC" operation, or illuminate for more than 6 seconds, or illuminate when driving, please inform the condition of pretensioning unit and SRS air bag system to JAC agent.



Warning:

- ◆ Pretensioning unit can only be used once. After being used once, the pretensioning unit of safety belt must be replaced. Any type of pretensioned belt should be replaced after impact.
- ◆ Pretensioning unit assembly will get hot during operation, so do not use your hand to touch it.
- ◆ Do not replace pretensioning unit on yourself. Replacement must be done by JAC agent.
- ◆ Do not disassemble pretensioning unit assembly at will.
- ◆ In any situation, do not repair pretension belt at will.
- ◆ Operating the pretensioning

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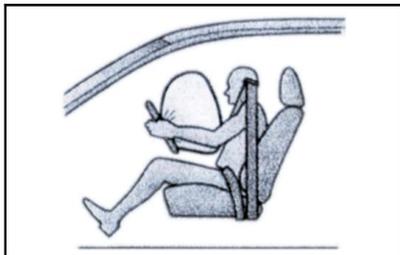
unit wrongly will lead to serious body hurt.

- ◆ For both driver seat and passenger seat, the safety belt must be durable equipment.

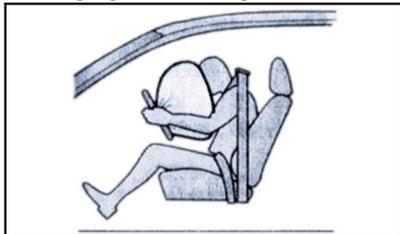
Auxiliary protection (air bag system)



Your vehicle is installed with auxiliary protection (air bag) system. Its name is "SRS AIR BAG", which is written in air bag cover of steering wheel and above the glove box of front passenger seat.



When the ignition switch is in "ON" position and the engine has started, SRS air bag warning light will illuminate for 6 seconds. After that, SRS warning light will extinguish.



There are air bag control unit in

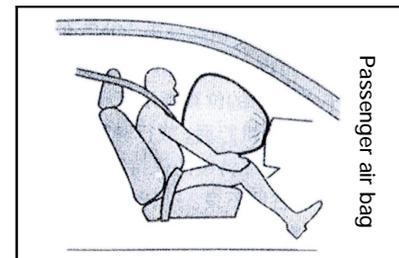
steering wheel. When SRSCM detects impact, this system will operate the air bag automatically.

Front passenger seat air bag (if installed)



When the air bag expands, if the decorative cover is not open completely, the air bag can not operate normally. So the decorative cover should be open completely. Complete expansion of air bag and the use of safety belt can reduce the forward impacting speed of the driver

seat and front passenger seat, so can reduce hurt to head and chest. After the air bag expands, immediate deflating will keep the driver in correct position.



Caution:

- ◆ Do not put air freshener etc. that gives out gas in the instrumental components or panel. If some matter gets into these parts (instrumental components, panel or ventilator), these parts may be damaged.

Warning:

- ◆ When SRS system begins to work, it will make huge noise, and then there will be smoke and powder in the vehicle. But this is the normal phenomenon and has no danger. After the air bag splays, you should wash your face and hands completely with warm water or warm, to prevent skin hyper-susceptibility.

- ◆ SRS can operate only when the ignition switch is in "ON" position. If SRSSRI does not work, or work continually, or work during driving, the SRS may be faulty. In case of such phenomenon,

please ask JAC agent to check.

- ◆ Before replacing fuel or disconnect battery, place the ignition switch in "LOCK" position or pull out ignition switch key. Do not disassemble air bag or replace fuel when the ignition switch is in "ON" position. If you do not obey this, the SRS warning light will illuminate.

SRS maintenance

SRS is a service-free system. So, you need not repair any parts. In case of fault, please ask the JAC agent to repair.

Some related work of SRS system, such as disassembling, installing, re-

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pair or some work on steering wheel, shall be done by JAC agent. Improper repair will cause serious damage.



Warning:

- ◆ Danger! Do not put child protection seat in the front seat, because there is air bag in front seat.
- ◆ Do not change the equipment or wiring of SRS. If you do, the air bag will inflate abnormal-

ly, thus to hurt persons or make the system lose its function, the air bag can not splay in case of accident.

- ◆ Please use clean dishcloth and clean water to wash decorative cover. Do not use cleaning agent. If you use cleaning agent, operation of air bag will be hindered.
- ◆ Do not put goods over the air bag or its surrounding. Because the goods will hinder its operation.
- ◆ For expanded air bag, it must be replaced by authorized JAC agent.
- ◆ Do not change or disconnect

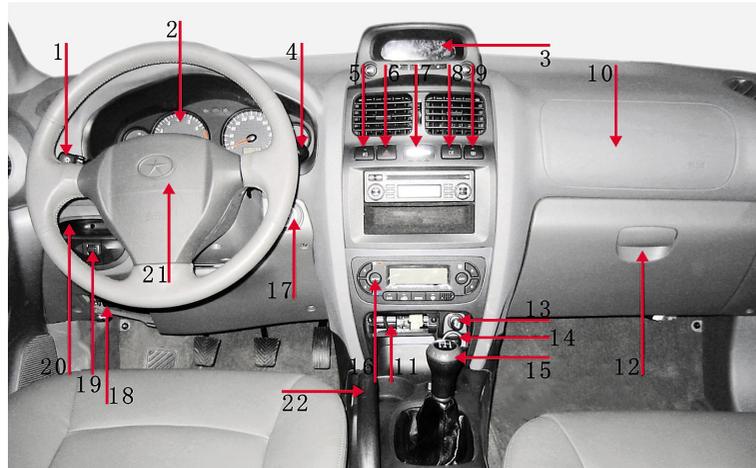
SRS wirings or SRS equipment, because that will make the air bag lose its function and cause serious body hurt.

- ◆ Do not install child protection seat in the front seat, because in accident, expanded air bag will make the child hurt, even dead.
- ◆ For vehicle that is unsuitable for installing air bag system, it should have preventive measures to ensure safety. JAC agent knows related measures and can provide necessary documents. If you do not refer to prevention, damage will occur during expansion.
- ◆ If you want to sell this vehi-

cle, please inform the new client of these key points and transfer this manual before selling.

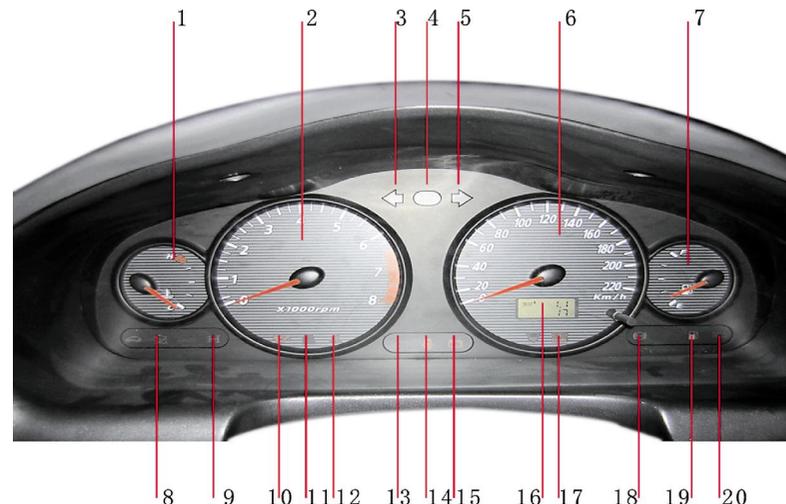
- ◆ If the vehicle dips in water, do not try to start the engine. It must be hauled by authorized JAC agent.

Instrument panel summary



- 1.Headlight and steering column switch
- 2.Instrument panel
- 3.Universal instrument
- 4.Wiper and control switch of water spray
- 5.Front fog lamp switch
- 6.Hazard lamp switch
- 7.Clock
- 8.Rear fog lamp switch
- 9.Rear defroster and exterior rear view mirror control switch (if installed)
- 10.Air bag at co-driver seat
- 11.Ashtray
- 12.Storage box
- 13.Cigarette lighter
- 14.Power supply socket
- 15.Shift lever
- 16.Air conditioner control panel
- 17.Ignition switch
- 18.Engine cover switch
- 19.Control rod of instrument lighting (rheostat)
- 20.Adjusting rod of steering wheel
- 21.Driver air bag and horn
- 22.Hand brake rod

Instrument panel and indicators



- 1.Water temperature gauge
- 2.Tachometer
- 3.Left turning indicator
- 4.Headlight high beam indicator
- 5.Right turning indicator
- 6.Odometer
- 7.Fuel gauge
- 8.Fault indicator of engine
- 9.four-drive indicator(if installed)
- 10.Oil pressure warning light
- 11.Fault indicator of air bag
- 12.Safety warning light
- 13.Indicator for opening of the cargo compartment
- 14.Warning light for slightly open door
- 15.Warning light of charging system
- 16.Accumulated/single trip odometer
- 17.Hand brake/hydraulic brake control lever
- 18.ABS warning light
- 19.Fuel warning light
- 20.ASR warning light (if equipped)

Characteristics of JAC vehicle

Caution:

- ◆ Do not install unit that gives out gas around the instrument panel or over the panel. If gas contacts the panel parts (instrument panel, panel decoration plate or fan), the parts will be destroyed.

Turning indicator

Green flashing arrow indicators on instrument panel are turning signals. If these signals are on without flashing, quicker than normal, or do not display, the indicators have failed. You must ask the agent to repair.

ABS warning light

When the key is in "ON" position, the light will illuminate and extinguish in

several seconds. During driving, if the warning light illuminates, please ask JAC agent to check. At this time, brake system will work normally, but the ABS will not work

Caution:

- ◆ If ABS and brake warning light always illuminate or illuminate during driving, EBD (Electronic Brake -Force Distribution) may be faulty. In case of such phenomena, avoid emergency braking and ask the JAC dealer to check.

TCS ASR warning light

Traction control indicator will flash depending on the position of ignition switch and the working condition of

the system. When the ignition switch is turned to "ON" position, the system still runs. After the engine starts, the system must be in closed condition. If TCS indicator still flashes or stops running, you should ask authorized JAC dealer to check immediately.

 Headlight high beam indicator
When the headlight switch is turned to high beam or dimmer position, high beam indicator will illuminate.

 Oil pressure warning light

Caution:

- ◆ The warning light should illuminate only when the oil pressure is low. Under normal condition, when the ignition switch is on start position, the warning

light will illuminate and extinguish after the engine starts. If the warning light illuminates during running, the engine will be damaged badly, this indicates faulty lubricate system. In such case, please stop the engine as soon as possible. Then you can check the oil level. If the oil level is too low, add oil and restart. If the warning light still illuminates after adding oil, or there is no oil, you can contact authorized JAC dealer.

 Hand brake/brake oil control lever

Warning:

- ◆ If you think the brake is faulty, please ask the authorized JAC dealer to check. Driving a vehicle with faulty brake will cause serious hurt, even death.

Operation of warning light

When pulling the hand brake, the warning light will illuminate whether the ignition switch is in "START" or "ON" position. After releasing the hand brake, the warning light should extinguish.

If you has not operated brake system, but the ignition switch is in "ON" or "START" position, the warning light will illuminate. After starting the engine, the warning light should extin-

guish. If not, you must decelerate and park the vehicle at a safe place. Display of brake warning light indicates low brake oil and low oil pressure. You must add oil. After adding oil, if there is failure, please ask authorized JAC dealer to check as soon as possible. If the vehicle can not run, it must be delivered to the dealer by hauling or other safe means. Your vehicle is installed with double brake system, which means there is brake system in both wheels. If the brake system of one wheel fails, the brake system of the other wheel can work. To use one brake system, you must add more force on the pedal. So the vehicle can not stop in short distance. If the brake

fails during running, please park at a safe place as soon as possible.

 Warning and sound of safety belt

When the ignition switch is turned to "ON" or "START" position from "OFF" position, the warning light will illuminate for about 6 seconds. If the passenger does not tie the safety belt, the system will sound at the same time.

 Charging system warning light
When the ignition switch is on, charging system warning light will illuminate. After starting the engine, this warning light should extinguish. Warning light illuminating during running indicates the failure of charging system. If such case, drive the vehi-

cle to a safe place and park carefully. First check the generator driving belt for loosening or breaking.

 Warning light for slightly open door

When the ignition switch is in any position, if a door does not close tightly, warning light and buzz will warn at the same time.

Note:

◆ Do not lock the vehicle inside of it, because the warning light will still warn under the condition that the vehicle is locked or the door is open. In the locked position and when the driver door is open, buzzer will be on. Pulling out the key will stop the warning light and buzzer.

 Low fuel warning light
Illumination of this warning light indicates that the fuel tank will be empty soon. In this case, please add fuel immediately.

When there is no fuel or fuel level is below "E", if you drive the vehicle, the engine will stop and the catalytic converter will be destroyed.

 Warning light for opening of the trunk

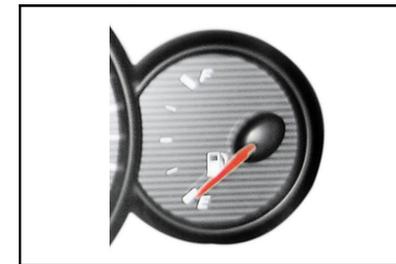
When the trunk is open, this system will warn.

 Air bag warning light
When the ignition switch is in "ON" position, or after starting the engine, SRS warning light (SRI) will flash for 6 seconds and then extinguish. When the SRS fails, the warning light

will also illuminate, if it does not illuminate, or illuminate for more than 6 seconds, or illuminate during running, please quickly ask JAC dealer to check.

 Failure indicator of engine
This indicator is part of onboard diagnosis system, and it can monitor different exhaust emission control system. When the ignition switch is in "ON" position, the indicator will illuminate, and extinguish after several seconds. If the running indicator illuminates or the indicator does not illuminate in the "ON" position, please quickly ask JAC dealer to check.

Fuel gauge



Fuel gauge indicates the fuel level in the fuel tank.

Water temperature gauge of engine



If the engine overheats, do not open the water tank cover; otherwise serious scald will occur. So, you can not open the water tank cover until the engine returns to normal temperature.

If the pointer of water temperature gauge exceeds normal range and is near to "H" (hot) position, which indicates the water temperature is too high and the engine will be damaged. At this time, stop the engine, open the engine cover, and check the coolant level and water pump belt. If there is problem in cooling system, please ask authorized JAC dealer to check.

Characteristics of JAC vehicle

Tachometer



The tachometer indicates engine speed. Use the tachometer to select correct gear, avoiding use low gear or high gear at low speed.

Caution:

- ◆ Do not let the engine speed reach the red area in tachometer, because that will destroy the engine badly.

Odometer



Odometer of JAC vehicle is tested in km/h.

Accumulated/trip odometer

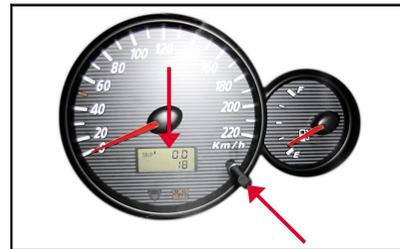


Accumulated odometer

Accumulated odometer indicates the total distance that the vehicle has run.

Note:

- ◆ Changing the odometer will make it unable to be guaranteed. Function of digital/trip odometer. When the ignition switch is in "ON" position, press down the reset button on the right of odometer.



1.Accumulated odometer

Accumulated odometer indicates the total distance that the vehicle has run in kilometer.

2.Trip odometer

Recording in kilometer.

Method A: distance between your home and the destination.

Method B: distance between middle section and destination.

To convert from method A to method B, please press the reset button. Pressing for 2 seconds, the odometer will return to zero.

multimeter



1.Transfer switch for operating mode

2.Air pressure gauge

3.Azimuth dial

4.Height measurement

5.Azimuth adjusting switch

6. Upper/lower switch

7.Light switch

8. Upper/lower switch

9.Highway indicator

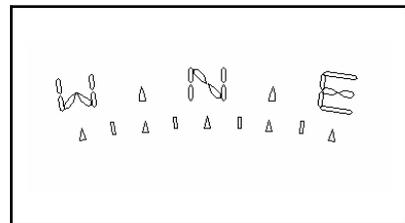
How to adjust multimeter

Air pressure gauge



Indicating range of air pressure gauge is 470 ~1040 hpa.

Azimuth dial



Azimuth dial indicates the azimuth in which the vehicle runs. The indicat-

ing range is 180 degree, at 22.5 degrees spacing.

How to correct the error of the azimuth indicator?

1) Pressing the azimuth adjusting switch for less than 5 seconds, azimuth indicator will begin to flash.

2) Turn the vehicle slowly within 128 seconds.

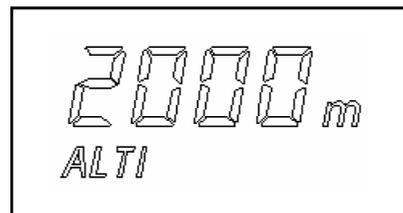
3) After turning, the azimuth indicator will stop flash. Now, you can correct the error.

Highway indicator



speed	lighting frequency
lower than 2.8 km/h	total
2.8~40 km/h	1 second
41~60 km/h	0.8 second
61~80 km/h	0.5 second
81~100 km/h	0.3 second

Height measuring gauge



Height measuring gauge is displayed as "ALTI data (m)" in operating mode. Its measuring range is 200~2,800m. With regard to corrected height (displayed in operating

mode), because of air pressure conversion for height on sea level (0m point), displayed height in the same region may be different. Use the following method to correct the height within ± 300 : Press " \blacktriangle " switch, and hold on for less than 0.5 second. Now it can be added by 50m. Press " \blacktriangledown " switch, and hold on for less than 0.5 second. Now, it can be reduced by 50m.

Related measuring gauge of height



Use operating mode switch, display frequency from "Altitude" to "ALTI data (m)" can be displayed on the operating mode

\blacktriangle indicates high height

\blacktriangledown indicates low height

\blacklozenge display range: $\pm 3,000$ m

\blacklozenge Height correction method is the same as height measuring gauge correction method.

Front fog lamp switch



Press the switch to turn on the front

fog lamp. When the headlight switch is in second position and the ignition key is in "ON" position, the front fog will illuminate.

Rear fog lamp switch



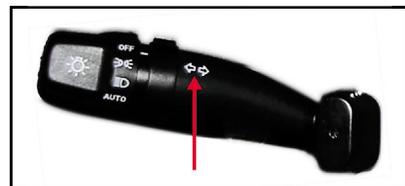
Press the switch to turn on the rear fog lamp. When the headlight switch is in second position and the ignition key is in "ON" position, the rear fog lamp will illuminate.

Combining with steering signals, operate headlight and high beam indi-

cator switch turning signals

Pulling down the control lever, the turning signal at left outside will flash. Pulling down the control lever, the turning signal at right outside will flash. After that, control lever will return to middle position automatically, and the turning signal lights will extinguish. If the light flash abnormally, or does not flash, or does not act, there may be malfunction. Check the fuse and bulb for burnout. Or ask authorized JAC dealer to check.

Lane changing signal



Moving the signal lever up and down to send lane-changing signal. After releasing it, the signal lever will return to middle position.

Headlight switch



Move the switch to the last position of multifunctional switch to turn on the headlight. First position of the switch is for parking light, side light, tail light and panel light. Second position of the switch is for headlight.

Tail (parking) light

Turn the switch to "ON" or "OFF" posi-

tion, to turn on or off tail (parking) light.

High beam indicator switch

Pull the control lever towards yourself to turn on high beam indicator. At this time, high beam indicator will illuminate. Pull the control lever to the opposite direction to reduce the beam.

Headlight flashing



To change headlight beams, pull the switch control lever towards yourself and then release it. Even with the

headlight switch in "OFF" position, the headlight beam can be changed.

Wind shield wiper and cleaner

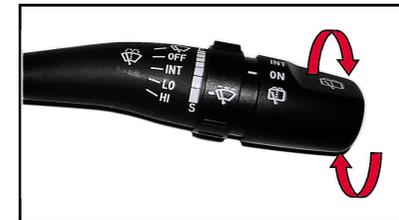
Wiper switch has three operation positions altogether:

- 1.intermittent operation
- 2.low speed operation
- 3.high speed operation

Note:

- ◆ In order to prevent damage of the wiper, do not use wiper to wipe heavy object, such as snow or ice. If the weight of the object is too light, you can operate warm air to melt the rain or ice.

Operation of wind shield cleaner

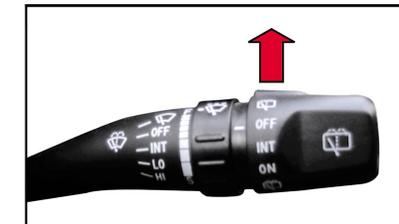


To use the cleaner, pull the control lever towards steering wheel. After operating the control lever, the cleaner will operate automatically. After releasing it, it will stop.

Note:

- ◆ Wiping time for one operation must not be more than 15 seconds. Do not operate cleaner when there is no liquid.
- ◆ In winter, please confirm if the wiper blade is frozen on the window.
- ◆ Use wind shield cleaner to prevent the water icing.

Defroster



Push the control lever of wind shield wiper and cleaner upwards to operate the defroster.

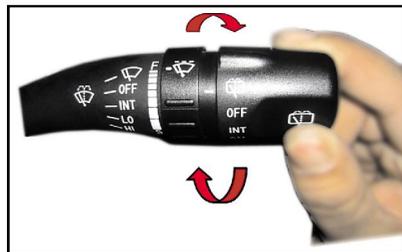
Intermittent wiper



To use intermittent wiper: put the

switch to "INT" position. Use the adjusting button to change between 1 and 18 seconds. It can change automatically based on the vehicle speed.

Rear wiper and cleaner switch



1.  When the rear window wiper blade is in correct position, spray cleaning agent and run.
2. OFF: If at "OFF" position, the rear window wiper stops running.
3. INT: It indicates intermittent wiper.

Put the rear window wiper in "INT" position.

4. ON: If at "ON" position, the rear window wiper runs continually.

Hazard warning system



If you need to brake for emergency in a dangerous place, you should use hazard warning system. For such braking, please select appropriate position.

Pressing the hazard warning switch can turn on hazard warning light.

During this period, all lamps for directional signals will flash. Whether the ignition key is in "ON" position or not, hazard warning light will work normally.

To close hazard warning light, please press the switch again.

Rear window defroster switch (if installed)



Press the switch to turn on rear window defroster. At the same time, the rear defroster indicator will illuminate.

Press the switch again to turn off the defroster. After 15 seconds, the rear defroster should close automatically. If you want to turn on the defroster again, press the switch again after automatic closing.

Caution:

- ◆ In order to avoid damage of heat conductor inside the rear window, do not clean the window with sharp tool or cleaning agent causing corrosion.

Note:

- ◆ To avoid battery discharging, the defroster can only be turned on when the engine is on.

Digital clock



The digital clock has three control buttons. Its functions are as the following:

Hour: Press "H" and add figure.

Second: Press "M" and add figure.

Setting: Press "R" and set second as ":00". Now, you can adjust time.

After that period:

Press "R" between 10:30 and 11:29, you can read 11:00.

Press "R" between 11:30 and 12:29,

you can read 12:00.

Calendar display



Light of control instrument panel (rheostat)



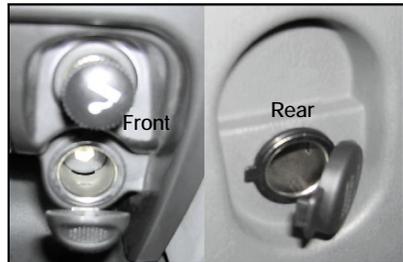
Turning the control button of panel light can adjust its brightness.

Cigarette lighter



To use the cigarette lighter, press and then release it immediately. When it becomes hot, it will jump up automatically, and then you can use it. If the engine is not started, the cigarette lighter can not be used unless the ignition switch is in "ACC" position. To avoid damaging the socket or fire, do not use counterfeit accessories.

Power supply socket



These sockets can supply power of 12V voltage. Thus, all kinds of electrical accessories and equipment can be run.

Ashtray in front seat



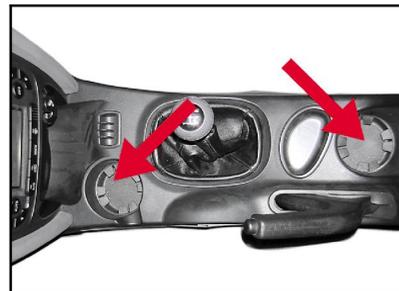
Pulling out catcher to open the ashtray in front seat. When you want to wash the ashtray, please push the storage box and move the ashtray forwards. Then you can take out ashtray. If you want to reinstall it, you should put it in correct position, then press it and move forwards, and align the rear edge of ashtray. Light of ashtray can illuminate only when the room light is on.

Ashtray in rear seat



Pulling out top of ashtray to open the ashtray in rear seat. If you want to clean or wash it, please lift it and pull out slowly.

Cup holder



In order to take out the water cup or drink tin easily, the cup holder is installed on the main console.



Warning:

◆ Do not put anything else (except water cup and drink tin) on the cup holder, because in emergency braking or accident, that may hurt the passenger.

Cup holder in rear seat



In order to fix water cup or drink tin, the cup holder in rear seat is installed on the main console of rear seat. You can use it by pressing the

top of the cup holder.

Caution:

◆ When the cup holder is not used, please put it in correct position.

Skylight



Your vehicle is installed with sun visor. You can adjust or prevent the sunshine under the condition that the skylight is closed.



Warning:

- ◆ Do not adjust sun visor during driving.

Skylight opening system



When the ignition key is in "ON" position, you can open or close the skylight. If you want to open or close it, please press and hold the console button at the top. According to the said method, you can adjust to ideal position.



Warning:

- ◆ When your hand, arm or body is in the middle of skylight, do not close the skylight.
- ◆ When the skylight is open, do not stretch your head or arm out.

Note:

- ◆ In cold weather, if the skylight is covered by snow or ice, do not open it.

When you clean the dust, some dust may accumulate in the guide rail.

Tilting the skylight



Press down the UP. DOWN button at top of your head.

If you want to close the skylight, press down the CLOSE button in the console at top of your head, till the skylight is closed.

Note:

- ◆ After washing the vehicle or the vehicle encountered rain, you must clean out the water before operating the skylight.

Reading light



Press the reading light switch to turn it on or off. The reading light can be used to light in night or be used as private light of the driver or passenger.

Room light



Room light has three buttons. These buttons are as following:

- ◆ door button

Keeping the ignition key in position, when any door is open, the light in "DOOR" position will illuminate. After the door is close, the light will extinguish within 6 seconds.

- ◆ ON button

In "ON" position, the light illuminates.

- ◆ OFF button

In "OFF" position, the light extinguishes even if a door is open.

Glove box



Warning:

- ◆ In order to avoid damage in accident or emergency brake, the door of glove box must be closed during the vehicle running.

◆ If you want to open the glove box, please lift the rod.

- ◆ You can use the key to lock or unlock it.

Hand brake



After parking the vehicle, you must use hand brake. When the ignition key is in "ON" or "START" position, hand brake indicator will illuminate. Before driving, you must release hand brake and confirm if the indicator extinguishes.

- ◆ Pull the hand brake to operate it.
- ◆ Pull the hand brake and press the button to release it. If holding on the

button, the hand brake lever can be lowered.

Back door



Warning:

- ◆ During running of the vehicle, the back door must be closed. If left side of back door is open or open slightly, smoke emitted from vehicle back will come into

the vehicle.

- ◆ If you want to open the back door, please turn the key clockwise to open the back door lock. Then you can lift the back door.
- ◆ If you want to close the back door, please lower back door and press down until it is locked. Confirm the tightening condition of back door, and try to reopen it.

Window of back door



- ◆ After pressing the release lever of back door window (that is, open the back door window), the window will eject slightly. Lifting the back door window, the door will rise to the top automatically.

- ◆ If you lower the back door window, the door will close automatically. Confirm the tightening condition of back door window, and try to reopen it.

Note:

- ◆ Locking of back door window is linked with back door lock. If you want to open back door window, back door or center lock switch must be in open condition.



Caution:

- ◆ Do not press the button for too long.
- ◆ Scraping ice in mirror may damage the mirror. Please use sponge, dishcloth or deicer to scrape the ice on the mirror.

Warning:

- ◆ When you adjust rear view mirror for passenger seat, please judge the distance be-

tween object and vehicle carefully. The exterior rear view mirrors are convex. So the object from the mirror is farther than real distance.

Folding exterior rear view mirrors



Pushing the mirror towards vehicle can fold the mirror. By that way, the vehicle can be parked in narrow place



Warning:

- ◆ Do not fold mirror during vehicle running. If you do not obey this, out of control may occur and so serious hurt even death will result.

Exterior rear view mirror

Electronic control



Exterior rear view mirrors are designed to allow you observe rear position and the distance at left & right side correctly.

Switch of remote controlled exterior rear view mirrors can allow you to adjust the positions of the rear mirrors left and right.

Adjusting the mirrors:

1. Move the control switch to left or right to select relevant rear mirror.
2. Press the adjusting switch to get the desired angle of rear mirror.

Day/night interior rear view mirrors



Your vehicle is installed with day/

night rear view mirrors. When you drive in night, pulling the day/night link towards you can reduce the strong light of headlight from behind the vehicle.

Roof carrier



If your vehicle is equipped with roof carrier, you can carry goods on the roof. You can get some parts for installing roof carrier from authorized JAC dealer.

Caution:

- ◆ When you carry the goods, please note the following.

roof carrier	34 kg load evenly
--------------	----------------------

- ◆ Goods exceeding 34 kg can damage your vehicle. When you carry big goods, do not hang the goods in rear position or outside of the side face.
- ◆ During running, to avoid damage of or lost goods, please check if the goods be secured.
- ◆ Drive the vehicle as stable speed.
- ◆ The roof carrier can be used as rear balustrade. You must fix the roof carrier with two or more cross bearers before carrying

goods.

- ◆ After fixing the bearers, you can carry goods over the roof carrier.
- ◆ Carrying too heavy goods may damage your vehicle.

Rear brake light



Low rear brake light is installed on both sides of the vehicle, and high brake light is installed in the middle of the vehicle. When you step brake pedal, these lights will illuminate.

Open the filler cap with your hand



Pull up the release rod (on the floor) in the left front corner of driver seat and open the filler cap.

Note:

- ◆ If the cap can not be opened because of icing, you can push or tap it slightly. If necessary, inject melting agent around the cap (do not use radiator), or move the vehicle to a warm place to make the frozen cap melt.

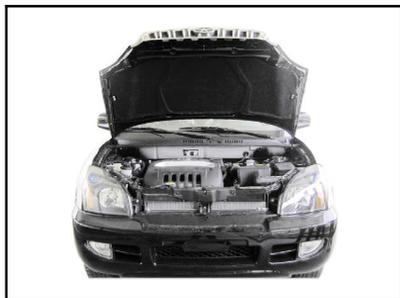


Warning:

◆ Gasifying of gasoline is very important. When filling the fuel, the engine should be stopped and no spark shall be generated or ignition performed near the filler cap. If you need to replace filler cap, please use genuine JAC parts of good quality. If you open the filler cap at high temperature, you can hear a slight "squeak".

Therefore, this is a normal phenomenon. Rotating the filler cap slowly can open it.

Engine cover

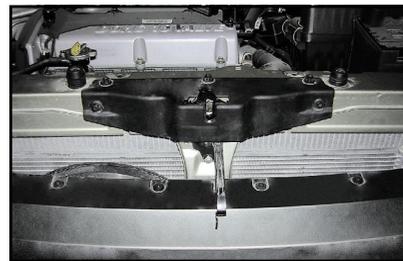


1. Pulling the release rod can open the engine cover.

2. Press and hold on the safety locking rod, and uplift engine cover.

Before closing the engine cover, the support rod should return to its original position; otherwise there will be

noise. Lower the engine cover to the closing position that is higher than 30 cm, and lock it. Please confirm that the engine cover is locked in correct position.



Warning:

◆ Ensure that the support rod has been released, and close the engine cover. Before driving, please confirm that the engine cover is locked. If not, it will be

opened during running, resulting in blocking of sight and accident. Please check if the front support rod of engine is in correct position, thus to avoid the engine cover falling on your body. Do not move the vehicle when the engine cover is supported.

Sun visor



Sun visor is installed in the front and

side of driver seat & passenger seat.

In order to ward direct sunshine, you can pull down the sun visor. Pocket mirror is installed in the right side of sun visor of front passenger seat.

Note:

◆ Operation manual of SRS can be found on the back of each sun visor.

Warning:

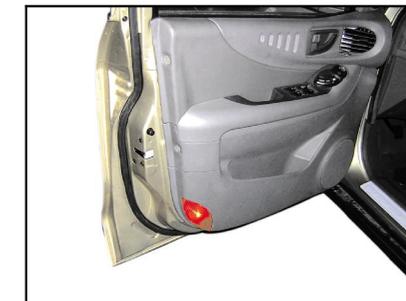
◆ If the visibility of road is bad, or there is obstacle in the road, do not pull down the sun visors.

Pocket mirror

Light of pocket mirror

◆ After the light is on, open the pocket mirror cover beside driver seat or front passenger seat, then the light of pocket mirror will illuminate automatically.

Warning light at front door corner



After opening the front door, the red light will illuminate. The aim of this light

is to prompt access of passenger.

Horn



Pressing the steering wheel gasket, you can hear the sound of the horn.

Armrest for rear seat



This armrest is in the center of rear seat back.

Adjusting rod for steering wheel tilting



Adjusting steering wheel

1. Pulling the adjusting rod forward and holding it on can release steering wheel.
2. Raise or lower the steering wheel.
3. After adjustment, release the adjusting rod.



Warning:

◆ Do not try to adjust the steering wheel during running; otherwise the vehicle will be out of control and serious hurt even death will be caused.

Automatic preheating and cooling control unit

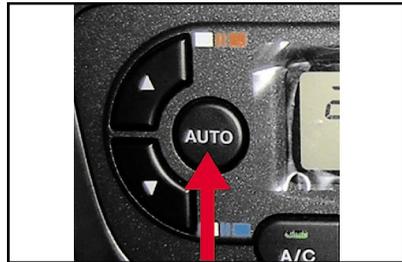
Your vehicle is installed with automatic preheating and cooling control unit, by which you can set appropriate internal temperature.



1. Air temperature control button
2. AUTO (automatic control) switch
3. Display panel
4. Closing switch
5. Fan blower control switch

6. Air conditioner switch
7. Air intake control switch/air flow system switch
8. Air flow control switch
9. Defrosting switch

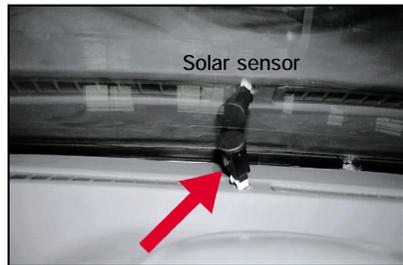
Automatic operation



FATC (full automatic temperature control) system

It can control preheating and cooling system automatically.;

Press "AUTO" switch. The indicator will confirm auto control position mode for face, feet, and face/feet automatically. Except for blowing speed, the air conditioner will operate automatically.



Note:

- ◆ This sensor is installed on the instrumental panel. Its function is to determine that nothing is on the sensor of the function of preheating and cooling system.

Interior temperature control switch



Manual operation

Except for the "AUTO" button, you can use the other buttons to control preheating and cooling system manually. At this time, you can control the operation of the system by selecting buttons in advance.

The buttons that can not be selected are for automatic control.

Pressing "AUTO" button to change to automatic mode.

Control switch for fan speed



Pressing control button for fan speed can set the fan speed to appropriate value. Faster speed can provide higher air flow. Pressing "OFF" button can close the fan.

Closing preheating and cooling system

Pressing "OFF" button can stop the preheating and cooling system.

Air flow control switch

This switch can control air flow di-

rection. The air can flow to feet, panel outlet or windshield position. Four marks are indicating the position of face, feet, face/feet, and feet -defrosting respectively.

Feet and face position

If you select "feet and face" mode, the indicator will illuminate, and the air will flow out from air holes of face & feet. In addition, cold air from air hole of instrument panel and warm air from air hole of feet can flow out at the same time.

Face position

If you select "face" mode, the indicator will illuminate, and the air will flow out from air hole of face.

Feet position

If you select "feet" mode, the indica-

tor will illuminate, and the air will flow out from air hole of feet.

Feet-defrosting position

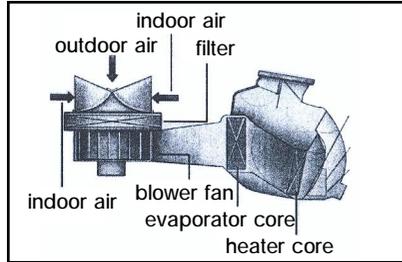
If you select "feet -defrosting" mode, the indicator will illuminate, and the air will flow out from air hole of windshield defrosting & feet.

Defrosting switch



If you press "defrosting" button, "fresh" mode will be automatically chosen, and the air will flow out from windshield defrosting air hole. If the temperature in the vehicle exceeds normal temperature of 33.5°C, the air conditioner will run; If less than 33.5°C, the air conditioner will stop running automatically.

Air conditioner (evaporator and blower unit)



Air conditioner is inside of the evaporator, which is back of the glove box. This unit can reduce foreign materials that come into vehicle and filter with air.

Caution:

- ◆ The air filter should be replaced every year or each 20,000 km (12,000 miles). If the vehicle runs on bad road, such

as dusty or clogged road, the air filter should be checked again and again, and it should be replaced when necessary.

- ◆ If the ventilating air reduces suddenly, you must ask the authorized JAC dealer to check.

Main points for operation:

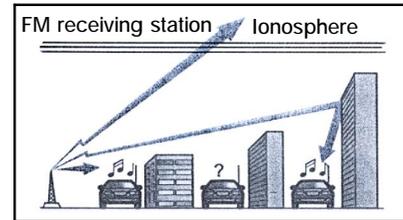
- ◆ When you get into the vehicle, and the temperature is high, you can open the window to discharge warm air.
- ◆ When using the air conditioner, close all the windows to block the heat outside of the vehicle.
- ◆ When driving on jammed region slowly, you should shift to low gear. This can increase the engine speed and the speed of air conditioner

compressor.

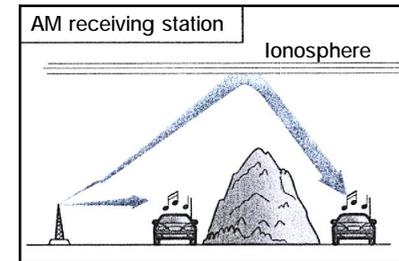
- ◆ When driving on steep road, you should turn off the air conditioner to avoid engine overheat.
- ◆ In winter or in the season when air conditioner is not often used, the air conditioner must be operated once a month. That will help lubricant circulation and keep the normal operation of the system.

Stereo unit

How to operate audio of automobile?



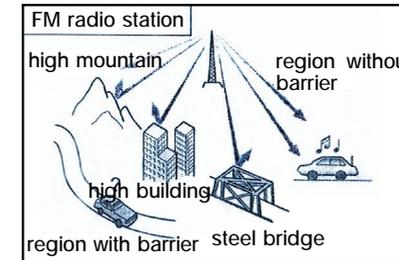
AM and FM signals are sent from transmitting stations around the city. After the antenna of the radio receives the signal, the sound will be sent out from microphone. If high signal touches your vehicle, the radio can operate exactly. If the signal is low or unclear, it may be related to the distance, and related to the building, bridge and other structures that block off signal.



AM receiving station generally has

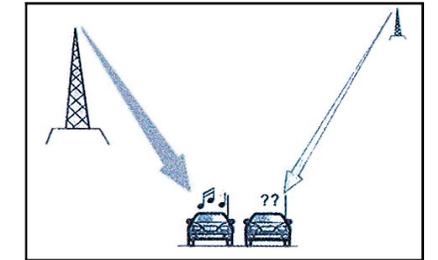
better receiving effect than FM, because AM wave is transmitted at low frequency. These low frequency waves can follow the ionosphere of earth curvature.

In addition, they can get round barrier to provide better signal. Thus, in wide range, AM signals can be better received than FM radio signals.



FM radio receives high frequency signals that can not bend with the earth curvature. So, FM radio can on-

ly receive signal which is near to service station. In the same way, FM signal will be influenced by high building, high mounting or other barrier. These reasons may lead to unclear sound. The following phenomena are normal; do not regard them as radio's malfunction.



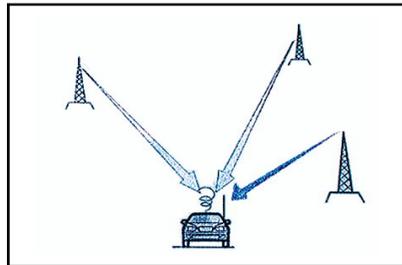
- ◆ Sometimes the sound is strong, sometimes the sound is weak -- when your vehicle is far from service station, the signal will become weak

Characteristics of JAC vehicle

(that is to say, sometimes the sound will be strong, sometimes it will be weak). If case of such phenomena, we recommend you to choose other service station with stronger signal.

◆ Vibration/mute -- If the FM signal is weak, or there is huge barrier between receiving station and vehicle, vibration/mute will exist.

Lowering the volume can help to reduce this phenomenon, till the sound is clear.



◆ Change service station -- After FM signal becomes weak, the frequency that is near to the vehicle and has stronger signal begins to act. This is because your radio more easily receives clear signal. In such case, please choose other service station with stronger signal.

◆ Cancel multi-layer signal -- Signals received from several directions can lead to bad hearing effect. The reason is that the direct and repeating signals come from same service station, or two service stations having close frequency send out signal at the same time. In such case, please choose other service station.

Use multi-net mobile phone and bidirectional wireless communication unit

If you use multi-net mobile phone in the vehicle, audio device may send out noise. That does not indicate fault of the audio device. At this time, please use the multi-net mobile phone far away from audio device.

Caution:

◆ If you use multi-net mobile phone or radio in the vehicle, exterior antenna must be suited for the vehicle configuration. If you use mobile phone or radio by interior antenna, electric system of the vehicle will be disturbed, and safety system will be affected, too.

Operatong stereo radio



- | | | |
|----------------------------|--|---|
| 1.Switch | functional buttons | low-high-balance between left and right -balance between front and rear/Loud control) |
| 2.Button for CD play/pause | 6.Button for frequency tuning/song selection | 9.Reset button |
| 3.Disc eject/insert button | 7.Button for changing wave band | 10.Volume control button |
| 4.Display panel | 8.Functional control buttons (volume- | |

Protecting disk

Method for touching with hand



Seize the disk as per the figure, and do not toss about the disc. When seizing the disk, do not leave finger print on the surface of the disc. If there is scratch on the surface, the content will not be completed. Do not adhere tape, paper or label on the disk; do not scabble on the disk; do not play bad, distorted or scratched disc; otherwise the player will be

damaged seriously.

Storage

When the disc is not used, please place it in the disk box and store in a place where sunshine, high temperature and high humidity can be avoided. After the disc is automatically ejected from player, do not use your hand to hold or pull it out. After inserting the disk or pressing the exit button, do not pull out the disc from the player immediately. If the disc is pulled out before finishing the operation, it will rotate in the unit and will be damaged. When the player is not in the panel or the main switch is turned off, do not try to insert disk.

Keeping the disk clean



Finger print, dust or dirt can cause bad play. So, please use clean dish cloth to keep it clean. If the surface is too dirty, please use neutral detergent to clean out.



When the ignition key is in "ON" or "ACC" position, if you turn on the radio, the vehicle will receive AM and FM signals from rear side glass.

Caution:

- ◆ Do not clean the inner rear middle glass with cleaning agent having grinding function, or scrap deposit with scraper.

Driving your vehicle



Warning:

Precaution about waste gas from engine.

◆ Waste gas discharged from engine is very harmful to body, and can even cause death. Therefore, when discharged gas is smelled in the vehicle, open the window immediately. Such waste gas contains carbon monoxide, a colorless and tasteless gas, which may result in suffocation or even death.

◆ Determine there is no leakage from the discharge system. When the vehicle is lifted for replacing engine oil or for other purposes, check the discharge

system. If there is abnormal noise from the discharge system or the vehicle bottom has been hit during driving, promptly have the authorized JAC Dealer check the discharge system.

◆ Do not let the engine run in a confined area

The engine must be stopped during parking in garage. To prevent moving of vehicle, do not run the engine in the garage.

◆ Avoid idling the engine for long time when there are passenger in the vehicle. If people are to stay in the vehicle for long time with the engine running, set

the air admission device at "Fresh" position and set the fan speed to high, to allow fresh air outside to enter the vehicle. When the back door cannot be closed because of the loaded objects, take care during driving.

1. Close all windows.
2. Open the exhaust port.
3. Set the air intake pushbutton at "Fresh" position, and the draft pushbutton at "Foot" or "Face" and a high speed for the fan.

Keep the normal operation of the ventilation device, and the air suction of the ventilation system must be set

in the middle of the windscreen, to remove snow, ice, leaves or other substances.



Warning:

◆ Our vehicles are more likely to collision than other vehicles.

◆ The ground clearance of our vehicle high, permitting it to run over small path and other cross-country ground. Avoid sharp turns or movement, as improper operation may result in overturning.

◆ Passengers failing to fasten the safety belt are exposed to the risk of death in case of serious collision.

Precautions before starting the engine:

1. Check all tires, fuel, water and other equipment of the vehicle that may lead to an accident.
2. Check the hand brake after entering the vehicle.
3. Check all windows and lights for cleanliness.
4. Check the inside and outside rear view mirrors for cleanliness.
5. Check the positions of seats, backs and seat head rests.
6. Lock all doors.
7. Check your fastened travel of your safety belt and the safety belts of other passengers.
8. Turn off lights and other components not used.
9. When the ignition switch is at "ON"

position, all necessary warning lights should operate, and confirm there is sufficient fuel.

10. When the ignition key is at "ON" position, check the functioning of the warning light and the bulb.

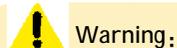
Start the engine with combined ignition switch

◆ For vehicle with manual gears, first set the shift lever to neutral, and step on the clutch pedal.

◆ For vehicle with automatic gears, set the shift lever at "P" (parking).

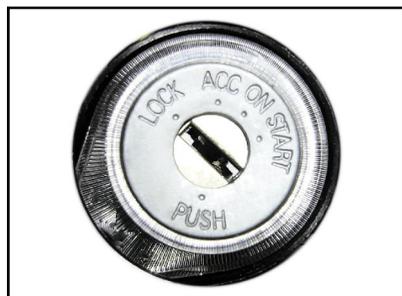
◆ To start the engine, insert the ignition key and turn it to "START" position. The engine will start to run when it is released. Do not leave the ignition switch at "START" for over 15 seconds.

Position of ignition key



Warning:

- ◆ Do not turn off the engine or remove the key when the vehicle is running, as the steering wheel is close to the ignition key.
1. Turn the ignition key to "ACC" position.
 2. Press and turn the ignition key from "ACC" to "LOCK" position counterclockwise.



◆ "START"

The engine will start to run when the ignition key is turned to this position. Release the ignition key after the engine starts running.

◆ "ON"

When the ignition key is at "ON" position, the engine will start to ignite and all components will start to work. If the engine does not work, the ignition key should not be kept at "ON" position, as this will result in spontaneous discharge and may destroy the ignition system.

◆ "ACC"

When the ignition key is at "ACC" position, some electric devices (radio) can work.

◆ "LOCK"

The ignition key can be inserted or pulled out at this position.

To prevent theft, the steering wheel can be locked using the ignition key.

Note:

- ◆ To release the steering wheel, insert the ignition key and turn the ignition key and steering wheel concurrently.

Pull out the ignition key



1. Turn the ignition key to "ACC" position.
2. Press and turn the ignition key from "ACC" to "LOCK" position counterclockwise.
3. The ignition key can be pulled out at the "LOCK" position.

Start



Warning:

- ◆ Never start the engine in an enclosed area or where there is no sufficient space. Carbon monoxide is a tasteless gas and can cause serious injury or death.

Operation of manual transmission



Note:

- ◆ The shift lever can be moved to the reverse position only after the vehicle is completely stopped and 3 seconds after the shift has been moved to the neutral position.

Caution:

- ◆ When the shift lever is moved from 5th gear to 4th gear, it is possible to enter the 2nd gear by mistake. This will cause the engine speed to increase and the speedometer will enter the red area.

Use the clutch

Before shifting the gear, step on the

clutch pedal and then release it slowly. Frequently use the clutch pedal before it returns to the original place. During drive, do not rest your foot on the clutch pedal. Do not park the vehicle on the upper slope by stepping on the clutch.

Precautions in driving

- ◆ Never let the vehicle run under inertia without engaging in gear when going down a slope, as this is extremely dangerous. You must run the vehicle by engaging the transmission.
- ◆ Never keep the brake pedal stepped on for long time. This will overheat the brake and cause fault. When going down a slope, decrease the speed and engage into a low

gear. After completing this procedure, the engine brake device will help you decrease the speed.

- ◆ Run the vehicle at decreased speed after engaging in a low gear. This can avoid over-speeding of engine.
- ◆ Please reduce the speed in strong wind, as it will be easier to control your vehicle at reduced speed.
- ◆ Confirm that the vehicle is completely stopped before engaging the reverse gear. To engage into the reverse gear, step on the clutch and set it to neutral, and engage into the reverse gear after 3 seconds.
- ◆ When driving on a slippery ground, take care during braking, acceleration and shifting gear, as

sudden change of speed will cause slipping of tires and loss of control.



Warning:

- ◆ Avoid sudden turns.
- ◆ Never change suddenly the vehicle wheel speed.

Recommendation on gear shifting

Scope of gears	Recommended speed
1-2 or 2-1	20km/h
2-3 or 3-2	40km/h
3-4 or 4-3	55km/h
4-5 or 5-4	75km/h

These data are based on test. It is recommended to shift gears according to this table.

Anti-blocking system

The anti-blocking system (ABS) is designed to prevent blocking of wheel in case of emergency braking. The ABS control system can test the vehicle speed and control pressure. Therefore, the ABS can increase the control ability of vehicle in case of emergency or when driving on slippery roads.

Note:

- ◆ When the ABS system is operated, there may be slight vibration when the brake is stepped on. Noise from the engine may also be heard when the brake is applied. This is normal, indicating the normal functioning of the anti-blocking system.



Warning:

- ◆ It is impossible for the ABS to prevent accident when driving on a dangerous road. Although it can provide effective control in case of emergency, it cannot completely avoid accident. Therefore, keep space between vehicles, and drive slowly when not on highway.
- ◆ Driving on rugged ground or ground with broken stones or snow.
- ◆ Driving with chain fitted.
- ◆ Driving on a highway with uneven surface.

Reduce the speed when driving on such roads. It is not permissible to test the function of ABS by fast driving or making sharp turns.

Electric Brakeforce Distribution (if installed)

The EBD is a unit to replace the ratio valve which is used to keep the vehicle running steadily during braking. In the condition of normal braking, the unit can balance the wheel speed; In the condition of difficult braking because the weight of vehicle accumulate front wheel, the rear wheel brake need less force. EBD can keep the force of braking rear wheel by using the increase air pressure valve or decrease air pressure valve of ABS, to keep the wheel steadily running and brake effectively.

Tension control system (TCS) (if installed)

For driving on a slippery ground, the tension control system (TCS) can limit the slippery of tires and to enable steady start of the vehicle. This system may increase the weight of the vehicle and permit safe turning at high speed.

Reducing accident

When the vehicle is started on a slippery ground or turn at high speed, this system can limit the high speed rotation of wheels and avoid loss of balance with wheels.

Suggestions

TCS cannot increase the brake performance. Please reduce the speed

before making turns.

Caution:

- ◆ The TCS can control sliding when the TCS indicator is flashing. When the road is slippery or the vehicle is running at high speed, release the accelerator pedal and keep the vehicle steady.



Warning:

- ◆ The TCS system is a component of the vehicle; and all guarding devices should be put into service in winter or on slippery roads.

TCS mode

The indicators on the instrument panel will stop displaying in TCS mode.

Note:

- ◆ 1) The TCS mode will be automatically started when the engine is started again after being stopped.
- 2) You may feel slight jittering of the vehicle after appropriate adjustment of the tension control device. This is only the effect of control of brake and not an anomaly.
- 3) When the engine is started, you can hear a click noise from the engine compartment, and this is only the sound from the tension control device.
- 4) The accelerating device may not function when the vehicle is running on muddy or snowy ground.

Indicator and warning light

The indicators will flash when the ignition key is turned on or the vehicle is started. If it does not flash, have it checked by the authorized dealer.

The warning light will indicate a warning in case of anomaly with the TCS device.

When the TCS indicator works, park the vehicle at a safe place. Start the engine again to check if the TCS indicator continues to work.

If the indicator still works after the engine is started, have it checked by the authorized JAC dealer.

Note:

- ◆ When the TCS is flashing, the tension control system will automatically reduce the driving force.

Safe driving of all wheel drive vehicles

(1) Fasten the safety belt.

(2) Never attempt to make a try when the vehicle design and driver skill is not suitable for running on cross-country ground.

(3) Reduce the speed in strong wind, as your vehicle is likely to be affected by strong wind. Reducing the speed can avoid loss of control.

(4) Check the brake system after driving in rainy days or on a road with slurry. Drive slowly and step on the brake pedal in several times until it works normally.

(5) Never drive on road with much water (for example brooks, rivers and lakes).

(6) The braking distance between an all wheel drive vehicle and a four-wheel drive vehicle is slightly different, therefore proper space between vehicles should be kept when driving on a road extremely difficult to drive.

(7) The driving torque is controlled by four wheels, therefore the tire quality can directly affect the driving condition of the all wheel drive vehicle. Determine the quality and size of all tires.

- ◆ All tires should be replaced at the same time.

- ◆ Turn the tires and check the air pressure of tires under normal conditions.

(8) The tire chains should be fitted on the front tires.

(9) If a front or rear wheel is trapped in a pit, never roughly turn the wheel, as this may damage the all wheel drive system.

Caution:

- ◆ When an all wheel drive vehicle is lifted by a lifting device, never start the engine or turn the wheel. Contacting a rotating wheel with the ground is dangerous and may result in damage to the vehicle.
- ◆ If the front or rear wheel starts to rotate in the pit, the accelerator pedal may be stepped on. But running the engine at high speed for long time should be avoided, as this may damage the all wheel drive system.



Warning:

- ◆ Avoid sharp turning.
- ◆ Never turn the steering wheel at high speed.
- ◆ Loss of control when driving on expressway may lead to overturning
- ◆ In case of serious collision, passengers not with safety belts fastened will suffer higher death rate than those with safety belts fastened.
- ◆ The usual cause of loss of control is disengaging of two or more wheels or excessive turning by the driver.
- ◆ Never turn sharply for leaving the express lane. Reduce the speed before changing lanes.

Limited-slip differential (if installed)

The limited-slip differential controls only the rear wheels. The functions of the limited-slip differential are as follows: Similar to an ordinary differential, it can make the speed of wheels on two sides different at turning. A limited-slip differential differs from an ordinary one in that if the driving force for the wheel on one side is lost, it can provide more driving force to the rear wheel on the other side.

Use the brake correctly



Warning:

- ◆ Never load goods higher than the back seat cover, or the overloaded goods may damage

the vehicle or injure passengers in an emergency braking or an accident.

- ◆ After parking, apply the manual brake and confirm that the manual brake indicator is lit.
- ◆ Ground with water may wet the brake. The brake may also get wet during vehicle cleaning. Driving a vehicle with wet brakes is extremely dangerous, as such brakes cannot accurately brake the vehicle or may sway the vehicle to one side. To dry the brake, increase the temperature until it can function normally. If it cannot be restored, stop the manipulation and contact the authorized

JAC dealer.

- ◆ Never run the vehicle down slope before setting the gear. Keep the gear and use the brake to run at reduced speed. Use a low gear to get better braking effect.
- ◆ Never keep the braking pedal stepped on over long time, and do not rest your foot on the braking pedal over long time during driving. This will overheat the engine and lost the effective function, and will also wear the brake components.
- ◆ In case of tire leakage during driving, use the brake to keep the vehicle steady. Park the vehicle at a safe place when it is slowed

down to a certain extent.

- ◆ In some cases, the manual brake may be found frozen at startup, such as snow or ice deposit around the vehicle or the rear brake, or when the brake has got wetted. If there is the possibility of freezing, set the shift gear to the reverse position (manual transmission), and block the rear wheel to prevent the vehicle from rolling.
- ◆ Do not keep the accelerator pedal stepped on over long time when going up slope. This may overheat the transmission. Please use the foot brake or parking brake.

Drive economically

Drive as instructed below and you can save fuel and drive longer distance.

- ◆ Run the vehicle steadily. Accelerate the vehicle slowly after starting. Never start or change throttle harshly. Drive at steady speed. Never race against a traffic light. Adjust the speed to the traffic rules to avoid frequent change of speed. Avoid blocking the road and keep space between vehicles.

- ◆ Run your vehicle at ordinary speed. The higher speed, the more fuel consumed. Run at ordinary speed except on expressway. This is the best method to save fuel.

- ◆ Unless necessary, do not keep

your foot on the braking pedal during driving, as this will cause unnecessary wearing and even damage to the brake and increased fuel consumption.

- ◆ Adjust the tire pressure to the value recommended by manufacturer. This can help extend the service life of tires and get the optimum fuel consumption.

- ◆ Excessive rolling of wheels when not properly positioned will result in rapid wearing of tires and waste of fuel.

- ◆ To save fuel and reduce maintenance cost, have the vehicle serviced as per the maintenance schedule in the following section. The vehicle will need more completion

maintenance when it often runs on roads other than normal highway.

- ◆ Clean the vehicle frequent and keep it clean. Pay special attention to thoroughly remove the deposited mud, dirt or ice. Such things will increase the weight of your vehicle, consume more fuel or cause corrosion.

- ◆ Never run the vehicle with unnecessary objects loaded. A lighter vehicle consumes less fuel.

- ◆ Never keep the engine idling over long time. During wait time (excluding wait at red light), turn off the engine and start the engine again when running the vehicle.

- ◆ Avoid idling for warm-up purpose over long time. The vehicle can be

run just when the engine is running smoothly. The warm-up time may be longer only in cold days.

- ◆ Never overload the engine, as this will force the engine to rotate at excessively high speed. In this case, shift to a lower gear. Running the engine over speed will render it unable to function normally.

- ◆ Use the air conditioning properly. The power for the air conditioning system is provided by the engine, therefore using the air conditioning in an economic way can save fuel.

Turning

Avoid using brake or shifting gear at turning. Except in rainy condition, make turns at ordinary speed whenever possible. Following this sug-

gestion can minimize the wearing of tires.

Driving in snow

Driving in snow may accelerate tire wearing or cause other faults. To minimize faults when driving in snow, following the instructions below.

Methods to deal with snow and ice

To drive in deep snow, anti-slip tires must be used, or chains have to be fitted on tires. When an anti-slip tires are to be used, those with size and structure conforming to the tire pressure specification must be selected. Improper installation may affect driving safety. Driving at extra high speed, sudden acceleration, emergency braking and turning are ex-

tremely dangerous. Make full use of engine braking function at deceleration. Emergency braking on a road with snow or ice may cause slippery. Keep a proper space from the vehicle in front to avoid emergency braking. When chains are fitted, step on the braking pedal slightly, to keep your vehicle balanced, but this cannot prevent slipping to the side.

Note:

- ◆ Please use the tire chains with caution.

Use high quality ethylene glycol cooling liquid.

High quality ethylene glycol cooling liquid should be used for the cooling system of your vehicle. This cooling

liquid can prevent corrosion to the cooling system, lubricate the pump and prevent freezing. Determine the glycol content with reference to the maintenance schedule in relevant section, and perform replacement or makeup when necessary.

Check battery and wires

Extra load will be imposed to the battery system in winter. For methods to check the battery and wires, refer to relevant sections. The battery voltage should be checked by personnel of the authorized JAC dealer or service stations.

Replace engine oil "for winter"

In winter, we recommend you using low-viscosity engine oil for winter. For details, see relevant sections. If

you cannot determine which type of engine oil should be used, consult a JAC dealer.

Check spark plug and ignition system

Refer to relevant sections for check of spark plug, and replace it when necessary. Check all the ignition wires and accessories, and determine if there is any cracking, wearing or damage.

Prevent lock from freezing

To thaw the frozen lock, inject into the key hole the anti-freezing liquid ethylene glycol. If the key hole is covered by snow, the ice can be removed immediately by injecting the anti-freezing liquid. If it is frozen inside, it should be thawed with a pre-

heated key. Take care to avoid scalding your hand when using a pre-heated key.

Note:

- ◆ The temperature range of the key is -40°C ~ 80°C . A key with temperature over 80°C may damage the trans-receiver.

Prevent freezing of window glass cleaner

To prevent freezing of window glass cleaner, use an anti-freezing liquid permitted in the instruction manual. JAC dealer can supply you with anti-freezing liquid for glass cleaner. Never use an anti-freezing liquid for engine or of other types.

Prevent freezing of parking

brake

In the following cases, your parking brake may be frozen in operating conditions. When there is snow or ice deposited near or around the parking brake, and when the brake is wet, it can be frozen. If there is the possibility of freezing, set the shift gear to the reverse position (manual transmission) tentatively and block the rear wheels to prevent rolling. Now the parking brake can be released.

Never allow ice or snow to deposit at the bottom.

In some cases, snow and ice can accumulate at the lower end of the fan to prevent operation. This may occur in winter. The bottom of the vehicle should be checked periodically,

and the rotating condition of the front wheels and steering wheel components should be determined.

Emergency devices and tools

Some emergency devices and tools must be brought as appropriate according to weather conditions, such as tire chains, towing hooks and chains, flasher, sand, spade, jumper cable, window scrapper, gloves, ground cloth, working clothing and rug must be carried at all times.

Driving at high speed

Check before driving

1. Tires:

Regulate the tire pressure to standard value. Low pressure will overheat and damage tires. Avoid using

worn or damaged tires.

Note:

- ◆ Never use a tire with pressure exceeding the max. value.

2. Fuel:

Engine cooling liquid and engine oil: the fuel consumption of vehicle running at extra high speed will be 1.5 times that when running at normal speed. Never forget to check the engine cooling liquid and engine oil.

3. Driving belt

A loosened or damaged driving belt can cause overheating of the engine.

Method to use vehicle lights

For correct operation of vehicle lights, the headlights must be checked and cleaned periodically.

Use the low beam lights when driving in a low visibility condition.

Towing and trailing

If you cannot determine the method of towing, first check relevant regulations on towing in your area before determine the towing method, as different laws are applied for the personnel, vehicle or devices used for towing in different areas. Consult the JAC dealer for detailed procedures of towing.

Caution:

- ◆ Never attempt to tow a vehicle during the first 2,000km of your vehicle, as the engine is in run-in period. Towing may seriously damage the engine or the transmission.

Hooking

Select an appropriate hook, determine the accurate position of hooking, use lateral control hook and balance the weight of the trailer. The hook must be firmly fastened with vehicles, and should be installed by technical personnel. Never use a disposable hook or a hook that can only be used on the bumper.

Trailer braking system

If your trailer is provided with a brake system, read the instructions of the trailer brake system carefully and observe them, to correctly fit and operate this system.

Note:

- ◆ If a hook is used for towing, the vehicle should be maintained frequent as per relevant laws and regulations.

Caution:

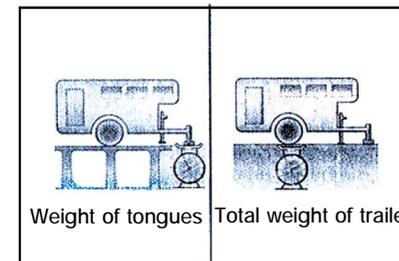
- ◆ Never connect the brake of the trailer with that of your vehicle.
- ◆ When towing up a steep slope, check the engine water temperature thermometer and the engine for overheating. If the thermometer indicates "H" (hot), keep space and immediately park at a safe place.

Safety chains

Safety chains must be fitted between your vehicle and the trailer.

These safety chains must be cross locked below the tongue of the trailer, so that the tongue will not drop on the road even if it is disengaged from the hook.

Weight of trailer



The weight of the trailer is adjusted by adding or reducing the number of tongues.

Check the total weight of the trailer and the weight of the tongues.

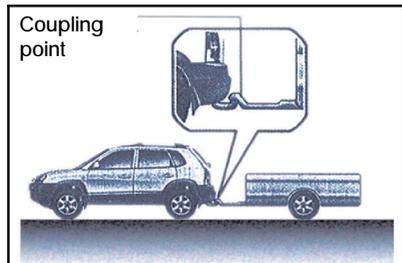
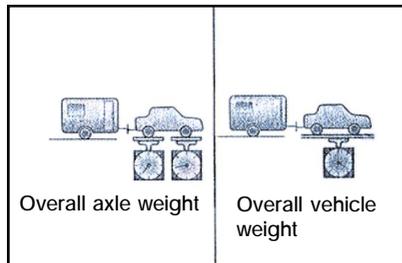
Note:

- ◆ 1. The weight of the rear part of the vehicle must not exceed that of the front part. Over 60% of the weight must be on the front half of trailer and the remaining 40% on the rear half.
- 2. The total weight of the added trailer must not exceed the gross vehicle weight ratio (GVWR). The total weight includes the weight of the vehicle, the driver and all passengers, goods, hook, tongues and other equipment.
- 3. The weight of the front and

rear axles must not exceed the gross axle weight ratio (GAWR). Under normal conditions, the trailed goods cannot exceed GVWR but can exceed GAWR. Improper trailer weight and excessive load of goods can cause overloading of the rear axle. Distribute the weight again and check the axle weight again.

4. The maximum vehicle weight limit at static condition is:
Gasoline 2.0: 80kg

5. The highest height of suspension coupling point is 1092mm.



Caution;

- ◆ Following is relevant instructions on towing. The weight of trailers must not exceed the scope shown in the table.

Unit: kg

	Maximum range of towing weight		
	Engine	Trailer	Tongues
With brake	2.4(4WD)	1650	80
Without brake	2.4(4WD)	700 with ABS: 750	28



Warning;

- ◆ An overloaded trailer may seriously affect your driving and braking operations, and result in collision, which may seriously injure your body and even cause death.

Main points of trailing or towing

1. Check the hook, safety chains, lights and turning signals before towing.
2. Run the vehicle at a steady speed (below 100km/h).
3. Towing consumes more fuel than under normal conditions.
4. Keep good functioning of the engine brake and electronic connectors, and never use the fifth gear (manual transmission).
5. Prevent the movement of loaded goods when the vehicle is running. Confirm the articles from time to time.
6. Check the tire pressure of trailer and your vehicle. Low pressure may affect driving. Also check the spare

tires.

7. A vehicle with a trailer is more likely to be affected by side wind and external collision.
8. Follow the normal method for parking your vehicle and trailer, especially on a downward slope. Turn the front wheels of your vehicle towards the road side, set the parking brake and set the shift lever to 1st gear or reverse (manual). Also set a block at each wheel.
9. For a trailer equipped with electronic brakes, start your vehicle and use the brake controller of the trailer, and also check the electronic connectors.
10. During driving, confirm from time to time if the loaded goods on the

trailer are properly fastened, and the lights function normally with brakes.

11. Avoid emergency start, acceleration or stopping.
12. Avoid sharp turns and changing lanes.
13. Avoid stepping on the braking pedal over long time. This will overheat the brake and lower its function.
14. When running down slope, set to a low gear and use the brake device of engine. When running up slope, set to a low gear and reduce the speed to avoid overheating the engine.

How to deal with an emergency

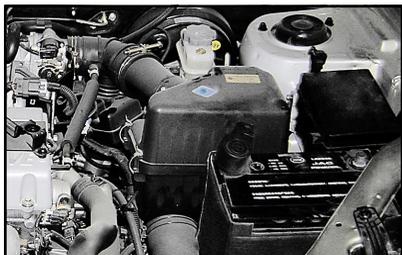
How to deal with an emergency

The engine cannot be started.

Caution:

◆ If the engine cannot be started, never attempt to start it by pulling or pushing the vehicle. This can result in unnecessary collision or damage. In addition, it can overheat the catalytic converter and has the risk of fire.

Engine stops running or is running at low speed.



The vehicle should not be started by pushing or pulling it.

Refer to "Start by jumping" for correct start.

Engine flywheel can rotate but cannot start.

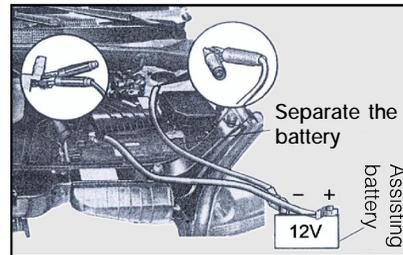
1. Check fuel level and quality.
2. Check the ignition system, ignition coil and connecting wires of spark plugs.
3. Check fuses in the engine housing.
4. If the engine still cannot be started, promptly contact an authorized JAC dealer.

Engine stalls during running

1. Reduce the speed slowly and keep a straight line. Carefully move your vehicle to a safe place.

2. Turn on the danger warning light.
3. Start the engine again. If the engine still cannot be started, contact an authorized JAC dealer or consult with technical personnel.

Start by jumping



Warning:

◆ At start by jumping, combustible gas may produce from the battery, and this can cause serious injury and damage to the

vehicle if the following procedure is not observed. Consult technical personnel for proper implementation of this procedure. Take care not to have the sulfuric acid from the battery spilled onto your skin and clothes or vehicle.

◆ In the event that sulfuric acid has spilled onto your skin or into your eye, quickly take off the contaminated clothes or rinse the sulfuric acid on skin with clean water. Then take appropriate medicine. In a serious case when it is necessary to move to the hospital in an ambulance, wrap the wound with

sponge or soft cloth.

◆ Start by jumping may produce gas from the battery and cause explosion. Never inhale such gas and strictly keep away any spark or flame.

◆ The jumping system can be used only on 12V batteries, and can never be used on batteries other than 12V.

◆ To start the vehicle by jumping, implement the following procedures:

1. If the assisting battery is on another vehicle, never have both vehicles contacted.
2. All unnecessary lights and additional devices shall be

turned off.

3. Make the connections in a correct manner as shown in the photo on the previous page. First, connect one end of the jumper with the (+) connector of the assisting battery, and connect the other end of the jumper to the (+) connector of the exhausted battery. Then, connect one end of another jumper with the (-) connector of the assisting battery and finally connect the other end of this jumper at a sturdy and stable metal contact (such as engine support) far away from the battery. Never directly connect this jumper with

How to deal with an emergency

the connector of the exhausted batter.

4. Start the engine with the assisting battery and have the engine run for several minutes. This can determine it has been shifted safely to the assisting battery. When starting by jumping, keep the engine of the vehicle where the assisting battery is located at a speed of about 2,000rpm.

5. Start the engine with normal procedure. After it is started, keep the jumpers connected and let the engine to run at 2,000rpm for several seconds.

6. To remove the jumpers, pro-

ceed in the reversed order as connection, first the (-) connection and then the (+) connection. If the battery is exhausted for unknown cause (such as the headlight is not turned off), immediately have the vehicle checked by an authorized JAC dealer.

When the engine is overheated

When engine overheating is indicated by the water temperature thermometer, power deficiency is found or noise heard, the engine is probably overheated. In this case, proceed as follows.

1. Drive off the road and park at a safe place.

2. Set the shift lever at neutral (manual transmission) and apply the parking brake. If the air conditioner is turned on, turn off the air conditioner.

3. In case of serious lacking of water for the engine cooling system or steam is spouting from the engine hood, stop the engine. After the engine cooling fan has stopped or steam spouting has stopped, open the engine hood. If there is no obvious lacking of cooling liquid, keep the engine running and confirm the operation of engine cooling fan. If the fan does not work, turn off the engine.

4. Check the pump driving belt. If it cannot operate normally, check if the belt is loose. If there is no problem with the belt, check for any leakage

of engine cooling liquid (if the air conditioner is operating, it is normal than cold water is flowing out during parking).



Warning:

◆ Keep your hands and clothes away from rotating parts such as fan and driving belt when the engine is running.

5. In case of belt damage or cooling liquid leakage, immediately stop the engine and contact the JAC dealer.



Warning:

◆ When the engine is overheated, never open the water tank cap. Otherwise cooling liquid will gush out of the tank to cause scalding.

6. If the cause of engine overheating cannot be found, wait till the engine restores the normal temperature. If the cooling liquid has used up, open the water tank cap carefully and add the engine cooling liquid.

7. Proceed as instructed in the Caution, and note any overheating signal. In case of overheating again, contact an authorized JAC dealer.

Caution:

◆ Serious deficiency of cooling liquid refers to leakage of cooling liquid from the cooling system, and relevant devices need to be checked promptly by an authorized dealer.

JAC

Spare tire

The following is the full size of the spare tire:

After a spare tire is installed, check the tire pressure and adjust it to the specified value. Check the tire pressure periodically and keep it at the specified value when storing the spare tire.

Spare tire pressure

Tire size	225/70R16
Expansion pressure	210kPa

Install the spare tire



How to deal with an emergency

Remove the spare tire

1. Open the vehicle box door.
2. Remove the cover above the spare tire with a screwdriver.



3. Loosen the bolt with the wheel nut spanner



4. Lift the hanger, lower the hanger and remove the spare tire.

Install the spare tire

1. Place the spare tire in the center of the hanger, and lift the hanger and hook the spare tire.
2. Fasten the bolt with the wheel nut spanner.
3. Install the spare tire cover with a screwdriver.

Tire rupture

Tire rupture during driving:

1. Release the accelerator pedal, and reduce the speed. Never apply brake immediately or attempt to leave the driving lane, as this will lose control of your vehicle. When the vehicle has slowed down, you may apply the brake safely and leave the driving lane and stop the vehicle at a safe and flat ground. When driving on an expressway, never park in the middle of the road.
2. After the vehicle has stopped, turn on the emergency and danger warning light, set the parking brake and engage in the reverse gear (manual transmission).
3. Ask all passengers to leave the

vehicle and keep away from the traffic line on the vehicle side.

4. Replace the ruptured tire according to the procedures described below.

Replace the ruptured tire



The following is about replacement of a ruptured tire. When it is necessary to replace a ruptured tire, confirm that the transmission is set to the reverse gear (manual transmission), and the parking brake is applied. Af-

ter that:

1. Spare tire and tools

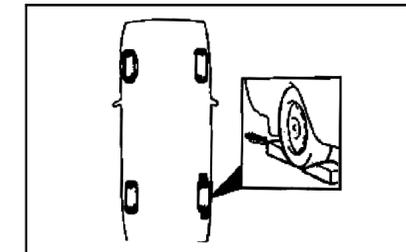


Remove the spare tire and take out the jack, jack handle and tool bag.

Note:

- ◆ The spare tire is placed at the bottom of the vehicle.

2. Fixing the tire



After the vehicle is lifted by the jack, it is necessary to place tire stops in the front and rear side of the tire diagonal to the ruptured tire to prevent it from rotating.

3. Unscrew the wheel nuts.



How to deal with an emergency

Before the vehicle is jacked, the wheel nuts should be unscrewed. To unscrew the nuts, turn the nub spanner counterclockwise. For correct operation, set the spanner on the right side of the wheel, hold the end of the spanner and lift the spanner with force. But do not remove the nuts at this time, just keep the nuts half loosened.

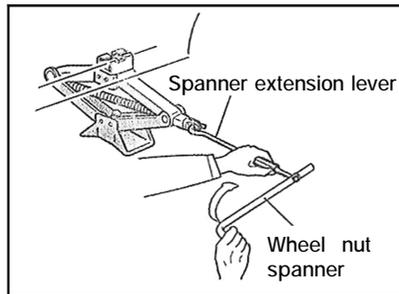
4. Set the jack



Place the jack base on a solid and

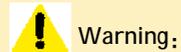
level ground. The jack can be set at the locations shown in the figure.

5. Lift the vehicle



Fit the jack handle at the position shown. To raise the vehicle, turn the handle clockwise. Confirm the position of the jack when jacking the vehicle to avoid it sliding down. If the jack is placed on a soft ground or beach, a suitable plate is needed and should be placed at the bottom

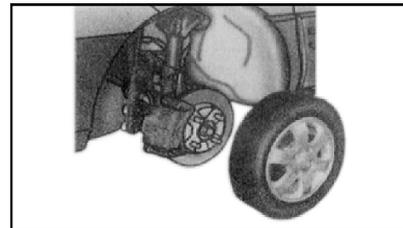
of the jack, to avoid loss of balance. Raise the vehicle sufficiently high to allow mounting the spare tire.



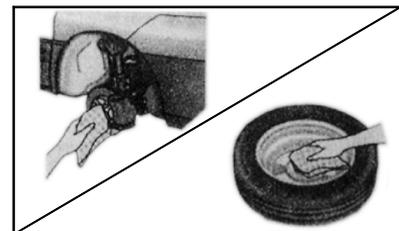
Warning:

◆ Never go below the vehicle raised by a jack. It may cause injury or even death in the event of the raised vehicle falling down. No passenger is allowed to enter the vehicle when it is on jack.

6. Tire replacement



Loosen the wheel nuts and removed them with hands. Move the wheel gently so that it slides out of the studs and then place it flat to avoid rolling. Take out the spare tire, lift and align it with the studs to slide it to position. If it is too difficult to perform this operation, slide in the wheel gently to align the upper hole on the wheel with the upper stud. Then, swing the wheel back and forth gently until the wheel can slide in on other studs.



7. Fitting the wheel nuts again



Warning:

◆ Take care to avoid injury as there is sharp points on the tire cover. Before placing the tire in, confirm the hub or tire is free from foreign objects (such as soil, tar and sand). Such substances may hinder the fixing of tire into the hub and may be the cause of tire nut loosening, and may lead to loss of control, resulting in serious injury or even death.



To fit the wheel cover again, place the nuts on studs and tighten them. Swing the wheel gently to confirm if it has been safely fixed, and tighten the nuts with hands again.

8. Lower the vehicle and fasten the nuts.

Lower the vehicle by turning the jack handle counterclockwise. Tighten the wheel nuts by moving the spanner in the direction shown. Never stand above the spanner or use a pipe on

How to deal with an emergency

the spanner. It is necessary to tighten all nuts. After replacing the wheel, it is recommended to have technical personnel to tighten the wheel nuts to ensure suitable torque.



Tightening torque of wheel nuts:
Steel wheels and aluminum alloy wheels
90-110N.M

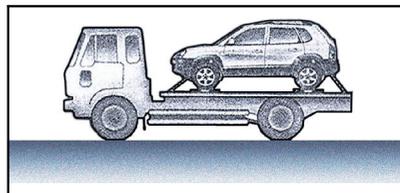
Precautions after wheel replacement



If a tire pressure meter is available, remove the valve head and check the pressure. If the air pressure is low, drive the vehicle at low speed to a nearby service station and have it charged. If the tire pressure is too high, adjust it to standard pressure. After checking or adjusting the pressure, the valve head should be replaced. Air leakage may take place if

it is not replaced. If the valve head is lost, buy a new one and fit it immediately. After the wheel replacement, fasten the ruptured tire and take back the jack, jack handle and tools.

Towing

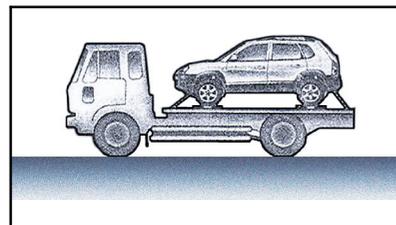


Caution:

- ◆ Incorrect towing may damage the vehicle!
- ◆ Towing should be done by a JAC dealer or a special towing service station. This can ensure the safety of vehicle. Also pro-

Professional personnel are familiar with laws and codes of vehicle towing. In any case, it can reduce the possibility of vehicle damage. It is recommended that relevant information be provided to the operators, and to determine whether safety chains are to be used and the local codes to be followed.

Towing a vehicle with manual transmission



◆ If the vehicle is to be towed with rear wheels on ground, confirm that the parking brake has been released.

◆ If the vehicle is towed with front wheels on ground, confirm that the transmission is set at neutral, and confirm that the ignition key is at "ACC" position. This can prevent locking of the steering wheel in the vehicle for which it is not allowed to operate the steering wheel during towing.

◆ If the wheel or suspension of the vehicle to be towed is damaged, a flat support must be used.

Emergency towing



If no professional towing vehicle is available, tie the towing cable chain or lifting lever on the bottom hook at the front of the vehicle, and tow the vehicle in emergency. Operate with

care to avoid damage to the vehicle. In case of damage to the wheel, driving system, axle, steering wheel or brake devices, never attempt to tow the vehicle. Before towing, confirm that the transmission is in neutral and the ignition key is at "ACC" position (engine turned off) or at "ON" position (engine running). The driver must stay in the cab to operate the steering wheel and brakes.

Loss of key

If you lose the key to your vehicle, you may get a new key with the key number from the JAC dealer. If the door is locked with the key inside the vehicle and no new key can be obtained, the JAC dealer can open the vehicle door with special tools.

Rust prevention and appearance caring

Rust prevention

Prevent your vehicle from rusting

Advanced design and structure are used to prevent rusting, to make high quality JAC vehicles. To prevent vehicle rusting over long time, your cooperation and assistance is required.

Common causes of rusting

Common causes of vehicle rusting are:

- ◆ Irritating substance, dirt and moisture accumulated at the bottom of vehicle.
- ◆ Painting damage, or damage to exterior coating layer by stone or sand, and small crunching and denting.

Positions more likely to rusting

If you live in an area where it is more

likely to cause rusting of vehicle, measures to prevent rusting are extremely important. Common causes of accelerated rusting include saline dirt on ground, dust chemicals, marine air and intrusion of industrial pollutants.

Rust caused by moisture

The vehicle is likely to develop rust in case of much moisture. For example, high humidity can accelerate the rusting, especially at a temperature above freezing point. In this case, moisture will cover the vehicle and vaporize gradually. The cause of soil leading to rusting of vehicle is that soil can gradually dry up and is likely to keep a moist state.

High temperature can also acceler-

ate rusting of accessories that cannot be properly ventilated and are in a wet state. The vehicle should be cleaned periodically and have the deposited soil removed. Such foreign substance normally accumulates at the bottom instead of the surface of the vehicle.

Rust prevention

Do the following to prevent rusting:

Keep the vehicle clean

The best way to prevent rusting is to keep the vehicle clean and remove all substances that may cause rusting.

- ◆ If you live in an area where it is more likely to cause rusting of vehicle, measures to prevent rusting are extremely important. Common caus-

es of accelerated rusting include saline dirt on ground, dust chemicals, marine air, industrial pollutants and acid rain. You need to enhance your measures against rusting.

- ◆ In winter, clean the bottom of the vehicle every month, and after the winter, determine if the vehicle bottom is clean.

- ◆ When cleaning the vehicle bottom, pay special attention to the bottom of fan and devices difficult to identify on profile. Foreign substances must be thoroughly removed, and better effect can be achieved by wiping with cloth than cleaning with water.

- ◆ When cleaning the door panel, keep the door sill and frame cross beam drain holes open. Let moisture

to expel to prevent rusting inside.

Keep your garage dry

Never park your vehicle in a garage with moist or poorly ventilated. Such an environment can easily cause rusting of your vehicle.

It will certainly result in rusting of your vehicle and some accessories if you wash your vehicle in the garage or bring snow, ice and mud into the garage. In this case, the vehicle may get rusty even if the garage is dry. Sufficient ventilation can completely remove the moisture.

Keep intact painted surface and trims

A surface with scratch should be mended with paint applied when the vehicle leaves the factory, to prevent

rusting. In case of metal exposure, it is recommended to have it patched up in a special painting shop.

Maintenance for the interior

Moisture may accumulate in the foot pads and corrode the pads. Check the pads periodically and determine that they are dry. In case of transporting fertilizer, use a special cleaner or other suitable cleaning agent to keep the pads clean. But this refers to measures to be taken in case of spillage or leakage of fertilizer.

Cleaning and waxing

Vehicle cleaning

Do not washing your vehicle at a place with direct sunlight exposure or when the vehicle body is hot. Washing must be done at a shaded

cool place, and be done frequently. Dirt may produce abrasive function and can damage the surface. Contaminated air or acid rain can damage the painting and trims. In coastal area where there is saline substance on ground or chemicals in the dust, special attention should be paid to the maintenance of the vehicle bottom. The dust and dirt can be removed by lifting the vehicle. After driving on a muddy road in winter, determine that all dirt at the vehicle bottom has been removed. Use steam to clean the mud accumulated at vehicle bottom. Refer to the cleaning guide for vehicle and instructions of manufacturer. Never use soap, chemical cleaning agent

or hot water. Use clean sponge or cloth. Never rub with excessive force to avoid damage to accessories. For any stain that cannot be removed one time, wet it first, and clean it after a period of time. To clean wheels with white sidewall, use a hard brush or wire washer with soap. To clean a plastic wheel hood, use clean sponge or soft cloth. To clean an aluminum alloy wheel, use mild soap or a natural cleaning agent. Never use an abrasive cleaning agent. Metallic surfaces should be protected, polished and waxed. As aluminum is likely got corroded, special care should be taken to protect aluminum alloy wheels in winter. If the vehicle has run on a saline road,

wash the wheels afterwards. Rinse the wheel immediately after washing. Soap solution dried on the surface will leave strips. When it is mild and the humidity is low, rinse each part immediately after washing to prevent strips. After rinsing, dry the vehicle with wet antelope skin or soft and moisture absorbing cloth. If it is not dried, a vehicle running with water on surface may leave strips on it. Never crunch your vehicle with any object as this will damage the protection layer. Any scratching or denting on painted surface should be mended with original paint to prevent rusting. To protect the painting and prevent rusting, clean your vehicle at least once a month.

Special care should be taken to removing saline, mud and other dirt on the mudguard. Causes to paint damage may be tar, attachments, resin, insect, bird excrement and other stain dropped on the painted surface during rapid running of the vehicle. If such stain cannot be completely removed with fresh water, use mild soap. The surface must be rinsed after washing with soap. Never let soap solution dry up on the painted surface.

Cleaning of stain

Do not use gasoline, powerful cleaning agent or corrosive agent, as they may damage the protection layer. Use dry cloth dipped with lubricating oil or a bug and tar cleaner to re-

move tar. Use lukewarm water and mild soap or vehicle cleaning agent to remove insect or resin. If the painted surface has lost brightness, use a special vehicle polishing agent.

Polishing and waxing

Wash and dry your vehicle before polishing or waxing or applying general cleaning agent or waxing agent. Use qualified products and follow the instructions of manufacturer.

Re-waxing

When water beads have formed on the painted surface and extend to large areas, it is necessary to polish and wax the vehicle again.

Maintenance of vehicle bumper

Special preventive measures should

be taken for the bumper of JAC vehicle, as described below:

- ◆ Take care not to spill electrolytic liquid or braking liquid onto the bumper. If it takes place, wash it with fresh water.
 - ◆ Wipe the bumper surface gently during washing. The bumper is made of plastics and its surface may be damaged by wiping with excessive force. Use lukewarm water and mild soap or vehicle cleaning agent.
 - ◆ Never expose the bumper to high temperature. For example, in case of re-painting, the bumper should be removed first, to prevent adverse effect of high temperature in the painting chamber on the bumper.
- Maintenance of internal decora-

tion

Internal decoration made of nylon fabrics.

To clean such internal decoration, first remove the dirt and dust with a vacuum cleaner. Then, use neutral soap solvent or cleaning agent, and clean sponge, soft cloth and clean water. After using these tools, wait for several seconds, and use wet sponge and cloth to wipe off the dirt. If it is still not cleaned, repeat this work until the dirt is completely cleaned. Never use gasoline, a cleaning agent not recommended, paint rosin oil or other unsuitable cleaning product.

Leather internal decoration

For cleaning of leather internal deco-

ration, dust and dirt has to be cleaned as with other materials. But take care about the leather surface to avoid damaging the leather. High quality leather needs good caring and periodical cleaning. Dirt can be removed completely using soap and clean water, and to keep a glossy and beautiful leather surface. Use coarse cotton cloth, mild soap and lukewarm water, and rinse off soap foam. After wiping with wet cloth, remove the moisture from leather surface with soft cloth. When the leather is dirty, do the cleaning promptly. Oiling has been done in the leather processing, therefore it is not necessary to oil the leather again. Oil applied onto leather surface cannot

provide effective protection, and therefore no good or bad effect. It is not necessary to dye or bleach the leather in any circumstances.

Clean the carpet

Use foam detergent. Before washing, read the instructions and follow the procedures. More dirt can be removed with a vacuum cleaner. Make proper foams according to the instructions of assembling. Do not add water into it. When the carpet is clean, this foam cleaning agent can completely remove the dirt.

Clean the safety belts

Clean the safety belts using the recommended neutral soap solution for internal decoration parts or carpet. Follow the instructions, and do not

bleach or dye the safety belts, as this will affect their strength.

Clean the window glass

You may use glass cleaning agent to clean the glass. Take care when cleaning the inside of windows, to avoid damaging the anti-fog line on the rear windshield.

Other questions?

For any other question on vehicle maintenance, please consult with the JAC dealer.

Vehicle maintenance requirements

Scope of maintenance

Repair requirements

Confirm if it runs at normal speed and implement maintenance and repairs. Accessories with strict repair requirements should be serviced by qualified technical personnel. It is also your duty to refer to the warranty requirements in maintenance and repair. The repair certificate and relevant detailed information will also be provided to you when the JAC vehicle is supplied to you.

Maintenance requirements

The maintenance requirements consist of the following three parts:

- ◆ periodical maintenance
- ◆ general checks
- ◆ maintenance by vehicle owner

Periodical maintenance

Requirements on checks, adjustment and replacement are given on the following page. The maintenance procedure should be implemented and maintenance schedule be referenced, to determine that you have implemented the procedure correctly. We recommend that these maintenance procedures be performed by qualified technical personnel trained by original factory of JAC dealer, as they have professional repair equipment. It is strongly recommended to use genuine JAC accessories for repair or replacement. Engine oil, engine cooling liquid and manual transmission tank oil and braking liquid of equivalent quality

are not within the scope of JAC Automobiles Company or its dealers, but you should use high quality engine oil. The repair certificate has provided details of warranted items.

General checks

A general check procedure should be implemented before driving a JAC vehicle or a vehicle with full fuel tank.

Maintenance by vehicle owner

If you are fond of mechanical devices, get all necessary tools and perform possible maintenance.

Main points of maintenance

- ◆ Each time after obtaining maintenance service from JAC Company, keep the maintenance record. Such

documents can help you determine that you have got correct maintenance. Such documents can play an important role if JAC dealer fails to provide service.

- ◆ If you desire to perform maintenance and repair by yourself, you can get assistance from the service manual of JAC Company. A copy can be provided by the accessories department of JAC dealer.

Requirements of periodical maintenance

Relevant checks should be made in case of a fault or when a fault is identified. The maintenance receipts for exhaust control system should be kept, to certify that the warranted condition of the exhaust system con-

forms to the actual condition.

Vehicle maintenance requirements

Periodical maintenance

Implement the following maintenance services and determine the normal control ability and status of the vehicle. To ensure the warranty service for you, keep all service receipts. The recorded number of kilometers and time will determine the number of maintenances with the data first appeared.

Maintenance to be performed at the earlier of the designated driving mileage or time interval	Km*1000	5	10	20	30	40	50	60	70	80	90	100
	No. of months	4	8	16	24	32	40	48	56	64	72	80
★ Replace engine oil and oil filter ^{*1}	Every 10,000 km or every 12 months											
Replace air filter element	Every 30,000 km											
Inspection valve gap	Every 40,000 km											
Replace fuel filter ^{*2}				●		●					●	
Replace spark plug ^{*3}					●				●			
Replace timing belt and inspection water pump	Every 40,000 km											
Inspect and adjust the driving belt	Every 10,000 km											
Inspect engine idling speed	Every 20,000 km											
★ Replace engine cooling liquid	Every 40,000 km or every 24 months											

★: Before driving, make a definite inspection of the engine oil, braking liquid, gearbox oil and cooling liquid.

*1: For driving under severe conditions, the replacement mileage/ time for engine oil and oil filter is every 5000 km or 6 months.

*2: If the fuel used contains foreign substance, the fuel filter need to be replaced more frequently. If the filter is found blocked by foreign substance, replace it.

*3: If the fuel used contains foreign substance, the spark plug need to be replaced more frequently. If the engine idling speed is found not steady, clean or replace the spark plug.

If necessary, it will be proceeded in the steps of cleaning, washing, adjusting, lubricating, repair or replacement after inspection.

Maintenance to be performed at the earlier of the designated driving mileage or time interval	Km*1000	5	10	20	30	40	50	60	70	80	90	100
	No. of months	4	8	16	24	32	40	48	56	64	72	80
★ Replace gearbox oil		●				●				●		
★ Replace transfer case oil and main reducer oil (4WD)		●				●				●		
Inspect the front and rear brakes	Every 10, 000km or every 12 months											
★ Replace hydraulic braking liquid	Every 30, 000km											
Inspect and adjust parking brake		●			●			●			●	
Tire shifting (at least once a month for tire pressure and wearing)	Tires are shifted every 10,000 km											
Visual inspection of the following												
Steering gear housing, tie rod spherical head and dust sleeve/ swinging arm head	Every 10,000 km or every 12 months											
Suspension assembly/ support/ driving shaft dust hood												
Engine cooling system hose												
Braking hose and piping												
★ Inspection of all liquid level ands oil levels	●	●	●	●	●	●	●	●	●	●	●	●
Exhaust system												
Fuel piping and its connections												

★: Before driving, make a definite inspection of the engine oil, braking liquid, gearbox oil and cooling liquid.

Vehicle maintenance requirements

Maintenance in severe environment

The replacement mileage/ time of engine oil and oil filter and gearbox oil must be shortened if your vehicle drives in one or more of the following conditions. Other maintenance will follow the items for ordinary driving conditions.

R: Replace I: inspection, with necessary cleaning, adjustment, repair or replacement after the inspection.

Maintenance item	Maintenance operation	Maintenance interval	Driving condition
Engine oil and oil filter	R	Every 5000KM or 3 months	A, B, C, F, H, J
Air filter	R	More frequently	C, E
Spark plug	R	More frequently	B, H
Timing belt	R	Every 4000KM or 24 months	D, E, F, G
Braking lining/ clamp/ disc/ drum/ parking brake	I	More frequently	C, D, G, H
Power steering gear, linking device and dust hood	I	Every 10000KM or 6 months	C, D, E, F
Driving shaft and sleeve	I	Every 15,000KM or 12 months	C, D, E, F
Air conditioning filter (for vaporizer and blower)	R	More frequently	C, E
Manual gearbox oil	R	Every 4000KM or 24 months	A, C, D, E, F, G, H, I, J
Transfer case oil and main reducer oil (4WD)*1	R	Every 4000KM or 24 months	C, E, G, I

*1: The transfer case oil and main reducer oil transfer case should be replaced in time if water has entered into oil.

Severe conditions:

A- repeated short distance drive

B- persistent idling or long time intermittent drive

C- drive under dusty conditions

D- drive on road with salt content or corrosive substance, or in very cold weather

E- drive on sandy ground

F- drive in crowded traffic in about 50% cases and with ambient temperature over 90 (32°C)

G- drive down slope

H- hauling

I- the vehicle is used for patrol by police, taxi, commercial vehicle or hauling

J- drive at a speed over 170km/h

Description of periodical maintenance items

◆ Engine oil and filter

The engine oil and filter should be replaced according to the maintenance schedule. Such replacement shall be made frequently when the vehicle is running under severe conditions.

◆ Driving belt

Avoid thread breaking, cracking, excessive wearing or oil contact with the belt. Check all driving belts and replace them when necessary. To keep the belt tension, the belt should be checked periodically and adjusted when necessary.

◆ Fuel filter

A faulty filter could limit the speed,

damage the exhaust system and result in difficult starting. The filter should be replaced frequently if there is excessive foreign substance accumulated in the fuel tank.

After installing a new filter, start the engine and check the connection for oil leakage. The fuel filter should be installed by trained technical personnel.

◆ Inspection of fuel piping

Check the fuel hose and connection piping for oil leakage or damage. Damaged or leaking part should be replaced by trained technical personnel.

◆ Timing belt

To prevent damage or deformation of timing belt, check all associated ac-

cessories. Immediately replace damaged accessories.

◆ Purge line and fuel filter

Check the purge line and fuel filter as per the maintenance schedule. Determine the purge line and fuel filter. Confirm that the purge line and fuel filter have been replaced.

◆ Vacuum and crankshaft case

Ventilation duct

Check if the surface of ventilation duct has become hot or damaged mechanically.

Caution:

◆ Never bring the duct surface close to devices with high temperature, such as exhaust manifold. Inspect the piping and de-

Vehicle maintenance requirements

termine that it is not in contact with device exhausting hot gas. Inspect the connections of all pipes, such as clamp connectors, to confirm they have been fastened and there is no fuel leaking out. Any connector found with deteriorated function or damage should be replaced immediately.

- ◆ Air filter
Genuine JAC Brand air filter is recommended for the replacement.
- ◆ Spark plug
Confirm that a new spark plug is installed in the correct heat value range.
- ◆ Engine cooling liquid

Replace the cooling liquid periodically according to the maintenance schedule.

- ◆ Manual gearbox oil
Check the manual gearbox oil according to the maintenance schedule.

Note:

- ◆ If the oil level is too low, check for any leakage before making up oil. Do not add excessive amount of oil.

- ◆ Braking hose and piping
Check for correct installation and for any friction, breakage, deterioration and oil leakage. Any accessory found damaged should be replaced immediately.

- ◆ Braking liquid
Check the braking liquid level in the braking liquid tank. The level should be between "MIN" and "MAX" on the tank side. Use braking liquid similar to DOT3 or DOT4.

- ◆ Rear braking drum/friction lining
Parking brake
Check the rear braking drum and friction lining for scratching, burning, oil leakage, accessories damage and excessive wearing. Check the parking brake system, including the parking brake lever and tie cable. Refer to the service manual for further maintenance procedures.

- ◆ brake lining, brake and braking disc
Check the brake lining and braking

disc for wearing and if the brake leaks liquid.

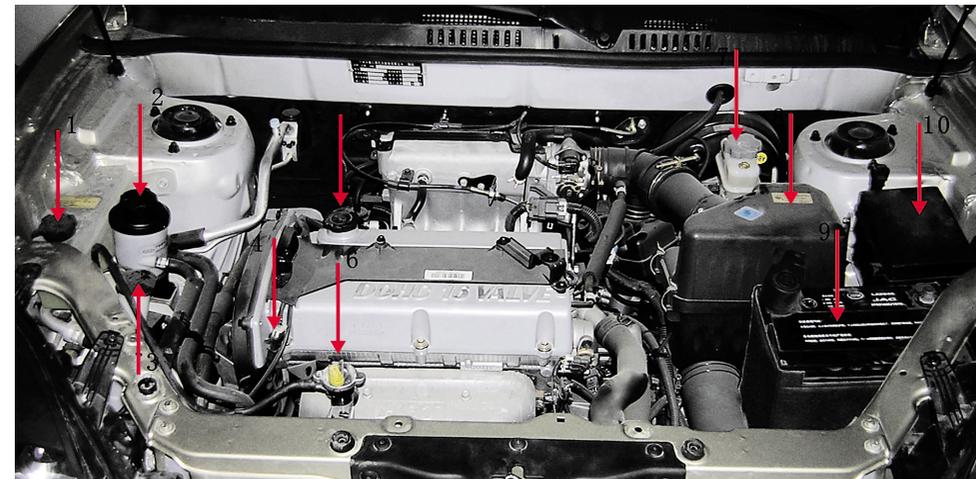
- ◆ Exhaust pipe and silencer
To prevent breaking, deterioration or damage, check the exhaust pipe, silencer and support. Start the engine and listen for possible gas leakage. Fasten the connector or replace part when necessary.
- ◆ Suspension support screws
Check the suspension connectors and fasten them at normal tension.
- ◆ Steering gear housing, connector and dust hood/ lower arm connecting spherical head
Stop the vehicle and turn off the engine to check the function of steering wheel, to avoid bending or damaging the connector. Check the dust hood

and connecting spherical head, and replace damaged parts.

- ◆ Power steering gear, belt and hose
Check the power steering pump and hose for possible oil leakage or damage. Any leaking parts shall be immediately replaced. Check the steering belt for thinning, rupture, excessive wearing and presence of paint, and keep it at correct tension. Make replacement or adjustment when necessary.
- ◆ Driving shaft and sleeve
Check the status and functions of driving shaft and sleeve as well as the clamping device. Replace any damaged part and re-lubricate them when necessary.

- ◆ Air conditioning media
Check the air conditioning lines and connectors for leakage or damage.

Maintenance by vehicle owner



- | | |
|-----------------------------------|-------------------------------------|
| 1. Auxiliary water tank cap | 7. Brake and clutch fluid reservoir |
| 2. Power steering fluid reservoir | 8. Air filter |
| 3. Wiper water tank | 9. Battery |
| 4. Oil stick | 10. Relay box |
| 5. Engine oil filling port | |
| 6. Water tank cap | |

General inspection

Engine compartment

The following should be inspected frequently:

- ◆ Engine oil level and operation status
- ◆ Gearbox level and operation status
- ◆ Braking liquid level
- ◆ Clutch liquid level
- ◆ Engine cooling liquid level
- ◆ Wiper water tank level

Status of auxiliary driving belt

- ◆ Status of engine cooling liquid pipe
- ◆ Leakage of liquid (about unqualified components)
- ◆ Power steering oil level
- ◆ Battery

Exterior of the vehicle

The following should be inspected

once a month:

- ◆ Overall vehicle surface and status
- ◆ Status of air filter
- ◆ Tension of wheel and wheel nuts
- ◆ Status of exhaust system
- ◆ Status and function of vehicle lights
- ◆ Status of windscreen
- ◆ Status of wiper liner
- ◆ Painting and vehicle body
- ◆ liquid leakage
- ◆ Status of doors and engine hood
- ◆ Tire pressure and wearing (including the spare tire)

Interior of the vehicle

The following should be inspected during drive:

- ◆ Function of lights
- ◆ Function of windscreen wiper

- ◆ Function of horns
 - ◆ Function of defroster and preheating system (air conditioner, if installed)
 - ◆ Function and status of steering wheel
 - ◆ Status and function of rear view mirror
 - ◆ Function of turning signals
 - ◆ Function of accelerator pedal
 - ◆ Function of brakes, including parking brake
 - ◆ Function of manual transmission
 - ◆ Status and function of seat controls
 - ◆ Status and function of safety belts
 - ◆ Function of sunshade
- For any anomaly found in status and function, make a careful check and contact the JAC dealer when service

is required.

Check engine oil

It is necessary to test the quality of oil used in the engine. Check the oil level at least once a month during normal service. The oil level should be checked more frequently in traveling or when driving in severe environment.

Recommended engine oil

1. Gasoline engine

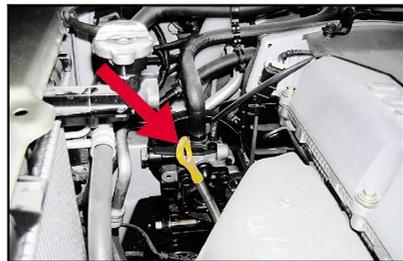


It is recommended to use the fuel-saving SH, SG or SG1CD (API) thickened engine oil.

Note:

◆ SAE 5W20 is not suitable for the vehicle.

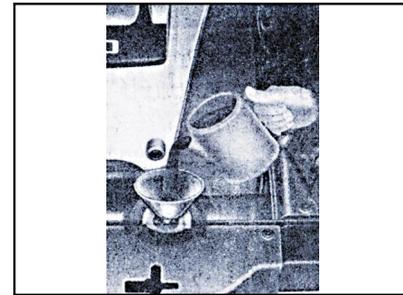
Check the oil level



Before check the engine oil, warm up the engine to normal water temperature and park the vehicle on a flat ground. Turn off the engine and wait

for several minutes. Pull out the oil stick, wipe off the oil, and insert the oil stick again and then pull it out again. Record the final oil level on the stick. The level should be between the full ("F") and low ("L") positions.

Filling oil



If the oil level is close to or below the "L" mark, fill oil to bring it to the "F" mark. To fill oil:

1. Open the cap on the filling port by

turning it anti-clockwise.

2. Check the level after filling oil. Never fill it with excessive oil.

3. Immediately close the filling port cap by turning it clockwise. The amount of oil between "F" and "L" marks is about 1 liter.

Engine oil consumption

Functions of engine oil

The main functions of engine oil are to lubricate and cool the internal of the engine.

Consumption process of engine oil

The engine will surely consume engine oil during normal driving. The following is the oil consumption by engine under normal conditions:

◆ The engine oil is used to lubricate the piston, piston ring and cylinder.

When the piston is at the bottom of cylinder, a film of gasoline is formed in the upper part of the cylinder. When gasoline is sucked into the combustion chamber by the engine, a very powerful negative pressure will be produced. During combustion, the gasoline and engine oil combust with the aid of high temperature combusting gas.

◆ The viscosity and quality of engine oil are directly related to the oil consumption, engine speed and driving status. High driving speed and frequent acceleration and deceleration will increase the oil consumption.

Replace engine oil and filter

Replace the engine oil and filter as

per the maintenance schedule. If the status of vehicle is in a severe environment, the service period of engine oil and filter should be shortened.

Following is the relevant procedure for engine oil and filter replacement:

1. Park the vehicle on a level ground and apply the parking brake. Start the engine to allow it to reach the normal water temperature. Turn off the engine and set the shift lever at reverse gear (manual transmission). The parking brake is applied concurrently at this time.

2. Open the engine cover and unscrew the engine oil filling port cap.

3. Go under the vehicle and turn anti-clockwise and loosen the drain plug with a spanner. Determine the

Maintenance by vehicle owner

correct position of engine oil before drain, and then loosen the drain plug.



Warning:

- ◆ Take care when draining the engine oil, to avoid scalding by hot oil!

4. After the engine oil has been completely drained, tighten the drain plug clockwise.

5. Remove the oil filter. It should be removed with hands (if you feel slippery, try to take it off with a piece of cloth). A certain amount of engine oil may flow out when the filter is removed. Therefore, align it with a container below.

6. Install the new oil filter. Never over tighten it, keep the contact surface

clean, and completely remove old washers. Before fitting, apply clean engine oil onto the sealing washers of the filter.

7. Fill the engine with oil of qualified grade and check the level.

8. Start the engine and check for any oil leakage at the drain plug or oil filter.

9. After the engine has reached the normal water temperature, stop it and check the oil level again.

Note:

- ◆ When it is necessary to add engine oil, use the oil with qualified grade. It is recommended to store the engine oil in a sealed container, and buy it from a gas station. Never pour the oil onto ground or discard it with other domestic rubbish.



Warning:

- ◆ Persistent skin contact with used engine oil may lead to cancer. Wash the skin with soap and clean water, and protect your skin.

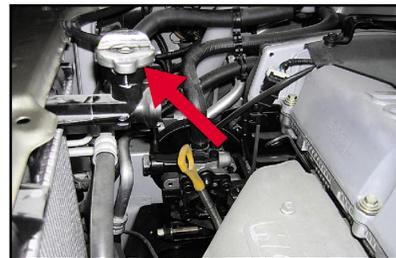
Inspection and replacement of engine cooling liquid.



Warning:

- ◆ Never open the water tank cap when the engine is hot. The pressure in the cooling system of engine may force the cooling liquid out. Failure to observe this advice may result in serious scalding accident. Therefore, never open the water tank cap when the engine is hot.

Engine cooling liquid



Use an ethylene or ethylene glycol cooling liquid with water at a mixture ratio of 50/50. The engine cooling liquid should be compatible with the parts of aluminum alloy engine. Never use additional inhibitor or additive. The cooling system should use engine cooling liquid with correct concentration and anti-freezing and anti-corrosion performance. Do not use a cooling liquid solution

with concentration exceeding 60% or below 35%. Using such cooling liquid may damage the cooling system. Refer to the table below for filling or replacing engine cooling liquid, and adjust the mixture ratio as appropriate.

Protection °C	Mixing ratio	
	Cooling liquid solution	Water
-15	30%	65%
-25	40%	60%
-35	50%	50%
-45	60%	40%

Check the cooling liquid level

The cooling liquid level can be seen on the side of the plastic cooling liquid tank. The level should be be-

tween the "L" and "F" lines. If it is below the "L" mark, cooling liquid should be added. If the standard limit is still not reached, check for possible water leakage. If the level keeps on decreasing, have it checked by a JAC dealer and find out its cause.



Replace engine cooling liquid

Replace engine cooling liquid as per the maintenance schedule.

Caution:

◆ The engine cooling liquid may damage the protection layer of your vehicle. If it has been spilled onto the vehicle, wash it with clean water.

1. Park the vehicle on a level ground, apply the parking brake and open the cooling liquid tank cap.
2. Get a drain container and open the drain tap of the cooling liquid tank. After all cooling liquid has been drained, tighten the drain tap.
3. Refer to relevant instructions for details about the volume of cooling system of your vehicle. Add appropriate amount of cooling liquid as per the manufacturer instructions. Now

add demineralized water until it tops up to the filling port of the cooling liquid tank.

4. Start the engine with the water tank cap opened. If cooling liquid needs to be added, add the liquid.
5. Check and close the water tank and the tank cap, and check that the drain tap has been completely closed.



Warning:

◆ The cooling fan is controlled by the engine cooling liquid temperature, and can be operated when the engine does not run. Take care about safety when working near the cooling fan. When the cooling liquid temperature has reduced, the fan will stop operating automatically. This is normal.

Replace spark plug

The spark plug must be replaced as per the period required in the maintenance schedule, or when the engine performance requires such replacement. Traces of unqualified spark plugs installed include engine fire interruption during driving, increased fuel consumption, and slow acceleration. Use the spark plugs recommended by JAC dealer for replacement of spark plugs. Using other spark plugs may deteriorate the vehicle performance, interfere with radio frequency or damage the engine.

Note:

◆ Pure and qualified parts must be used for replacing spark plugs.

Replace spark plug

You will find it very easy to replace the spark plugs with the engine cold. Replace the spark plugs one by one, to avoid confusing the wires.

1. Remove the intermediate cover of the engine swing hood.

Note:

◆ It is recommended to have the authorized JAC dealer replace the spark plugs.

2. Clean the dirt deposited around the spark plug with a piece of clean cloth, to prevent dirt from entering the cylinder when the spark plug is removed.
3. To remove the HV wire, pull out the connector directly instead of the

cable. Pulling out the cable may damage the carbon cored conductor.



Warning:

◆ Replacement of spark plug must be done with the engine cold. An excessively hot engine may result in scalding.

4. Operate the spanner on the upper part of the spark plug to remove an old spark plug, and never damage the ceramic insulator.
5. Turn the spanner anti-clockwise to remove an old spark plug.
6. To install a new spark plug, operate the spanner on the upper part of the spark plug and never damage the ceramic insulator.

Note:

◆ The spark plug should be fully fastened. Excessive tightening may damage the aluminum alloy cylinder head. Also, loose spark plug can cause overheating of spark plug and damage the engine.

7. Push the isolated connector onto the pole, and replace the HV wire. Check the HV wire for complete breaking and never drop a HV wire.

Replace air filter



Replace the air filter as described below:

1. Release the clamps around the filter cover.
2. Now, the filter cover can be lifted, to take out the old filter and put in the new filter. It is recommended to use genuine JAC filter.

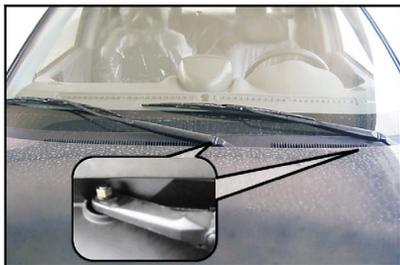
Caution:

- ◆ Driving your vehicle without fitting a suitable air filter may result in increased wearing of the engine.

Windscreen wiper liner

Check the wiper liner from time to time, and clean off road dirt or other debris accumulated on it. To clean the wiper liner and wiper arm, use

clean sponge or cloth, mild soap or detergent and clean water. If the wiper continuously scratch or foul the windscreen replace it with one of JAC origin.



Caution:

- ◆ Never run the wiper with the glass dry, as this will seriously damage the wiper liner and scratch the windscreen.

Top the spray liquid tank with liquid



- ◆ The spray liquid tank supplies the spray cleaning device of windscreen with spray liquid.
- ◆ Ensure the quality of spray liquid and top the tank. During bad weather or the spray device is used frequently, the spray liquid level should be checked frequently.
- ◆ The volume of the spray liquid tank is 3.4 liters.

Caution:

- ◆ Never use the radiator antifreezing liquid (engine cooling liquid) in the spray device, as this will damage the protection layer of your vehicle.
- ◆ Never operate the spray device without spray liquid, as this may damage the spray liquid pump.

Inspect the gearbox (manual)

It is recommended to use the pure JAC product (API GL -4) for the gearbox oil.

Oil amount in manual gearbox

The amount of oil in the manual gearbox is 2.3 liters.



Warning:

- ◆ Check the gearbox oil level after the engine has cooled down whenever possible. If the engine is hot, take care to avoid scalding.

Inspect the level of manual gearbox oil

Turn off the engine and park the vehicle on a level ground.

1. Turn the filling port plug anti-clockwise with a proper spanner and open it with your fingers.
2. Feel the oil level inside with your finger. The oil level should be in the middle. If not, check if there is oil leakage before adding oil. To fill the gearbox again, oil should be added

to an appropriate level. Never add too much oil.

3. Replace the filling port plug and screw it on with your fingers, and then tighten it with a spanner.

Inspect the brakes

Caution:

- ◆ Brakes are very important to safe driving, therefore it is recommended to have the JAC dealer inspect the brakes. The brakes shall be checked for wearing as per the maintenance schedule.

Inspect braking liquid level



Warning:

◆ Refer to the contents in Caution when measuring the braking liquid level. Braking liquid spilled into eyes may cause sight deterioration. It can also damage the paint and braking liquid is not readily removable.

Braking liquid

It is recommended to use the hydraulic braking liquid in conjunction with "JG4". Refer to the relevant instructions on the container.

Inspect the level

The braking liquid in the braking liquid tank should be inspected periodically. The level should be be-

tween the "MIN" and "MAX" marks on the side of the tank. If the level is at or below the "MIN" mark, add braking liquid to the "MAX" position.

◆ Never fill up excessively.



Warning:

◆ Braking liquid spilled into your eyes may affect your sight. Use qualified DOT3 or DOT4 braking liquid. Never leave the braking liquid reservoir or braking liquid tank

open over the specified time period. This can prevent damage to the brake system by intrusion of dirt and moisture.

Inspect clutch liquid

Inspection method of clutch liquid



To service the engine hood, it is necessary to inspect the clutch liquid level of the general braking pump. The system should also be checked

for possible oil leakage. Check and confirm that the clutch level is between "MAX" and "MIN". Add a suitable amount of clutch liquid as required. Decrease of level means leakage existing in the clutch system, and a timely inspection should be made to identify the leaking position and have it repaired. Consult your JAC dealer for detailed repair method.

Replace braking liquid

The recommended JG4 braking liquid should be used.

The cap of braking liquid fluid reservoir must be tightly closed, to prevent dirt and moisture from entering.

Note:

◆ Never allow other liquid to contaminate the braking liquid. This may render the system functioning abnormal.



Warning:

◆ Refer to the contents in Caution when measuring the braking liquid level. Braking liquid spilled into eyes may cause sight deterioration. It can also damage the paint and braking liquid is not readily removable.

Maintenance of air conditioner

Keep the condenser clean

Check periodically the air conditioning condenser (and engine radiator)

for accumulated dirt, dead insects and leaves. They may affect the cooling effect. Take care when cleaning such objects to avoid being trapped into the cooling fan.

Inspect the driving belt of air conditioning pump

When the air conditioner is in normal use, the air conditioning pump driving belt tension should be checked once a month. To check the tension of this belt, press the belt in the middle between the engine crankshaft and air conditioning pump pulley. The deflection must not exceed 8.0mm when it is pressed with a finger. The deflection may approach 8.0mm (0.315 ft) when measured with instrument at a pressure of 98N

(221b).

If the belt is excessively relaxed, have its tension adjusted by the JAC dealer.

Inspect the operation function of air conditioner

1. Start the engine with the air conditioner set at the minimum temperature.

2. If no cold air is blown out from the instrument panel opening, have the air conditioning system checked by the JAC dealer.

Caution:

- ◆ Operating the air conditioning system at low temperature for long time may damage the air conditioning pump.

Lubrication

It is necessary to lubricate the air conditioning pump and the sealing port from time to time, so run the air conditioner for at least 10 min. every week, especially in the seasons when air conditioner is not used, as this is absolutely necessary.

Inspect steering wheel

Free travel of steering wheel



To inspect the free travel of steering wheel, park the vehicle with four wheels straight to the front, and lightly turn the steering wheel to the rear and outward. Hold the steering wheel with hands lightly and operate the steering wheel flexibly according to the resistance marked on the free travel range. If the free travel has exceeded the normal range, have it checked by the JAC dealer, and adjust or repair the steering wheel when necessary.

Inspect clutch pedal

Free travel

Turn off the engine and step on the clutch pedal until a change of resistance is felt. This is the free travel of the clutch pedal. The free travel must

be within the specified range. If not, have it checked by the JAC dealer. Make adjustment or repair when necessary.

Inspect braking pedal

Gap

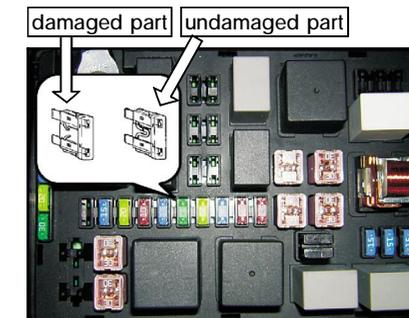
You need an assistant to inspect the gap of the braking pedal. Ask your assistant to step on the braking pedal several times in succession, and keep the pedal pressed with a force of 490N. The gap of braking pedal is the distance between the braking pedal surface and the acoustic plate below the floor mat. If this gap is not within the specified range, have it checked by the JAC dealer, and make adjustment or repair when necessary.

Inspect driving belt

The tension of the driving belt should be inspected periodically, and should be adjusted when necessary. In the meantime, check the belt for any trace of breaking, wearing or ageing, and replace it when necessary. Check the routing of the belt and determine that no engine part will obscure the movement of the belt. After the belt is replaced, the new belt should be re-adjusted after two or three weeks, to eliminate any relaxing occurring after the use.

Inspect and replace fuse

Replace fuse



The fuse will be blown when the system current exceeds the specified range. Therefore, it is necessary to prevent damage to wires. (The cause is normally system short-circuiting or excessive high load). If this is not the cause, ask the JAC dealer to determine the cause.

Caution:

- ◆ To replace the fuse, never use a fuse other than the original one in type or Ampere rating. Never use a wire or a fuse with higher Ampere rating, as this can cause damage to the circuit and burn the vehicle.

Replace auxiliary fuse

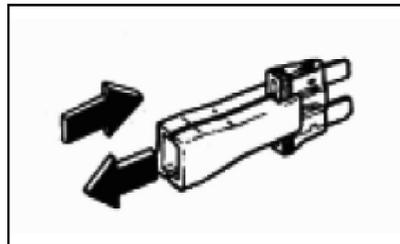


Below the driver position instrument panel are provided the fuse box for

lights and other electronic devices.

You can see a circuit diagram inside the fuse box. If the lights or other electronic devices stop working, a blown fuse may be the cause. If the fuse has been blown, you can see that the metal wire inside the fuse capsule is burnt. If you have identified a blown fuse, proceed as the following:

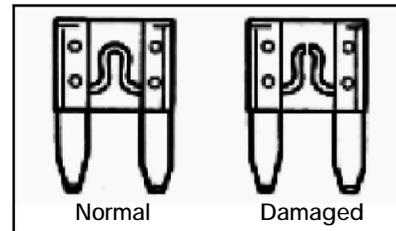
1. Turn off the ignition switch and all other switches.
2. Open the fuse box and check each fuse. Pull each fuse in your direction (to facilitate operation, smaller "fuse removal tool" is provided in the fuse box.).



3. It is necessary to check all fuses, regardless whether burnt fuse has been identified.

4. Replace a blown and old fuse with a new fuse of the same Ampere rating. The fuse should be properly fitted into the clamp. If not, have the JAC dealer repair or replace the fuse clamp. If you have no spare fuse available, you may use a fuse of the same or lower Ampere rating for those that can still work without a

fuse (radio or lighter, etc.)



Caution:

- ◆ A blown fuse indicates a fault in the circuit. If the replaced fuse is blown immediately after the switch for the relevant device is turned on, it indicates serious damage to the fuse and assistance from JAC dealer is required. Never use a fuse other than one with the same or lower Ampere rating. A fuse with higher rating may result in damage to the circuit or burning of the vehicle.

Inspect batteries



Warning:

- ◆ Take care about batteries! Follow the precautions given below when handling batteries, to avoid any accidents.
- ◆ Batteries contain highly corrosive sulfuric acid, and never allow electrolyte splatter onto the clothes or painting surface. In case of any electrolyte splattered on your body, immediately do the following:
 - ◆ If any electrolyte splatters onto your skin, rinse it with clean water for at least 15 minutes, and see the doctor as soon as possible. (If any electrolyte splatters into your eyes, immediately rinse with clean water, and see a doctor as soon as possible. If possible, con-

tinue to wash the eyes with sponge or soft cloth dipped with water.

- ◆ If any electrolyte has been swallowed, drink large amount of water and milk, and eat uncooked eggs and vegetable oil. It is preferable to see the doctor immediately.
- ◆ During battery charging (using battery charger or vehicle generator), gas may produce. The following precautions must be observed to avoid any accidents:
 - ◆ Charging should be performed at a well ventilated place.
 - ◆ Do not bring any cigarette lighter, spark or flame close to the battery.
 - ◆ Keep children away from the charging area.

Inspect batteries

Keep the batteries clean. In case of rusting around battery terminal and connectors, clean it with water and sodium bicarbonate, and apply grease to the connectors after drying.

Inspect motor -driven cooling fan



Warning:

◆ The cooling fan is controlled by the engine cooling liquid temperature, and can run when the engine is not operating. Be careful about safety when working near the cooling fan. The fan will stop running automatically when the temperature of engine cooling liquid has decreased. This is normal.

Check the engine cooling fan. If the engine cooling liquid temperature is high, the engine cooling fan should start automatically.

Inspect condenser cooling fan

When the air conditioner is operating, the condenser cooling fan should operate automatically.

Inspect power steering oil level



The power steering oil level should be inspected periodically.

To check the power steering oil level,

turn off the ignition switch and check the power steering oil tank level. This level should be between "MAX" and "MIN".

Note:

◆ After the engine is started in winter (below -20°C), the power steering pump may produce a frictional noise. If it stops after warming up, it is normal. This is a characteristic of the power steering oil at low temperature.

It is recommended to use the following power oil:

Use type PSF-3 power oil.

Note:

◆ Never start the engine when there is no power oil in the power steering oil tank.

Power steering oil pipe

Inspect the power steering oil pipe connector periodically for oil leakage. If the pipe has seriously ruptured or worn, immediately replace this oil pipe.

Replace bulbs

Before replacing a bulb, confirm that the relevant switch has been turned off. The serial number and power of the new bulb should be the same as those of the old one to be replaced.

Headlights



Replacement method:

1. Wait for the cooling of bulb, and use devices to protect your eyes.
2. Hold the bulb at the plastic holder and avoid contact the glass.
3. Remove the power cord in the rear of the headlight.
4. Push in the bulb spring and remove the bulb in the headlight.
5. Open the protection cover and align the headlight hole with the

plastic bulb holder to fit in the new bulb. Fix the bulb spring and connect the power cord.

6. Replace the cover and store the old bulb.

7. Check the luminance of the headlight.



Warning:

◆ A new bulb is pressurized, and if it breaks, the glass debris will fly off under pressure. Therefore eye protection devices should be used in handling halogen bulbs, to avoid injury to you and others by bulb. A lit bulb must not contact with liquid. When a headlight is damaged or broken, replace it. Place the bulb at a location not accessible by children, and store the old bulbs with care.

Waste gas exhaust control system

Waste gas exhaust system

Your vehicle is provided with the waste gas exhaust system, and has met the waste gas emission limit specified by the state. There are three types of waste gas exhaust control systems.

- (1) crankshaft case emission control system
- (2) evaporation emission control system
- (3) exhaust emission control system

To ensure effective functioning of the waste gas exhaust system, it is recommended to have the authorized JAC dealer inspect and maintain the vehicle according to the maintenance schedule in this manual.

1. Crankshaft case emission control

system

The forced ventilation system of crankshaft case can prevent air pollution by the mixed gas escaped from the crankshaft case. This system supplies filtered fresh air to the crankshaft case. In the crankshaft case, the fresh air is mixed with the escaped air from other cylinder and then this mixed gas enters the air intake system via the PCV valve.

2. Evaporation emission control system

The evaporation emission control system is designed to prevent loss of fuel vapor.

3. Exhaust emission control system
- The exhaust emission control system is a high efficiency system, and can

control the waste gas emission and has the function of maintaining the vehicle.

Charcoal canister

When the engine is not working, the fuel vapor produced in the fuel tank is absorbed and stored in the charcoal canister. When the engine is operating, the fuel vapor in the charcoal canister is pumped into the air intake system via the purifying control solenoid valve.

Purifying control solenoid valve

The ECM controls the purifying control solenoid valve; when the temperature of engine cooling liquid is low and the engine is in idling, the valve closes, so that the vaporized fuel cannot enter the charcoal canister.

When the engine gets hot in normal driving, the valve opens and admits the vaporized fuel into the charcoal canister.

EGR system(if installed)

This system controls the NOx by way of circulated exhaust, to lower the combustion temperature of the cylinder.

Three-way catalytic converters

All JAC vehicles are provided with integrated three-way catalytic converters, to reduce the carbon monoxide, hydrocarbon compounds and nitric oxygen. The waste gas flowing through the converter can keep the device at maximum temperature. When gasoline having not completely burnt enters the exhaust system, the

converter will overheat and it may lead to burning the vehicle.

Caution:

- ◆ It is possible to avoid danger by observing the following.



Warning:

- ◆ Lead -free gasoline (over 93#) must be used.
- ◆ Take care of the engine so that it keeps good functions. The cause of excessively high converter temperature is poor functioning of electrical and ignition systems or improper of fuel injection.
- ◆ In case of engine stall, slight knocking, knocking during op-

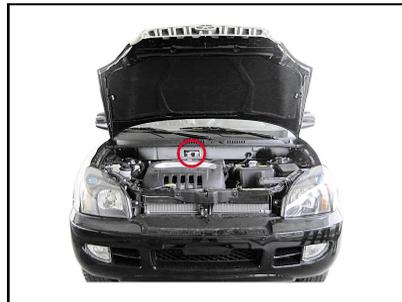
eration of difficult starting, have the engine checked or repaired by the JAC dealer, or it will render the engine unable to work normally and will damage the converter.

- ◆ Avoid driving the vehicle with low fuel or starting the engine without gasoline. Otherwise the engine cannot work normally and the converter will be damaged.
- ◆ The idling time of the engine must not exceed 10 min.
- ◆ Do not try to start the engine by pulling or pushing the vehicle. This may overheat the converter and result in burning.

- ◆ Never touch or contact the converter or other parts of the exhaust system when the converter gets hot. Turn off the engine and wait for its complete cooling before contact the converter or other parts of the exhaust system.
- ◆ Never park your vehicle on the highway with combustible materials nearby, such as hay, paper, leaves or rugs. Such substances may get contact with the hot converter and cause a fire.
- ◆ Always remember that JAC dealer is your most powerful assistant.

User information

Vehicle identification code (VIC)



You may use the VIC to register your vehicle and handle legal affairs about it. The VIC is located in the vehicle identification code panel of the fire wall between the engine and driver cab.

Engine number

The engine identification code is stamped on the right front side on the top of cylinder body.



Tires

JAC supplies you with tires most suitable for general driving.

Standard tire pressure



The tire label is on the exterior guard of the driver cab, and standard tire pressure values are provided. These pressure values provide you with the most comfortable driving conditions as well as the minimum tire wearing. The tire pressure should be checked at least once a week. To avoid the following problems, appropriate tire pressure should be maintained:

- ◆ A pressure lower than the stan-

standard will result in uneven tire wearing and difficulty in control.

- ◆ A pressure higher than the standard will increase the impact force and damage the vehicle, and result in uneven tire wearing.

Caution:

Pay attention to the following:

- ◆ Check the tire pressure with the tire cold. This refers to the status when the vehicle has parked for 3 hours and the driving distance has not exceeded 1.6km.
- ◆ The pressure of the spare tire should also be checked during tire pressure check.
- ◆ Do not overload your vehicle.

Especially, pay attention to the load of the luggage bracket and bracket on the top of the vehicle.

When tires for snowy ground are used, the tire pressure must be selected according to the sizes and structure specified on the label. The factory strongly recommend you use tires for snowy ground for all four wheels at the same time, otherwise difficult vehicle operation may result. The pressure of these tires for snowy ground is 28kPa higher than that specified on the tire pressure specification label, but the tire pressure must not be higher than the cold tire pressure specified on the specification label. The vehicle speed must

not exceed 120km/h when running on tires for snowy ground.

Anti-slip chains for wheels

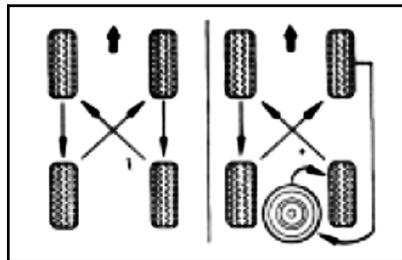
Anti-slip chains should be fitted on the front wheels, and the size of chains shall be determined. Take care to observe the instructions of the anti-slip chain manufacturer. To reduce wearing of tires and anti-slip chains, use such chains only when necessary.



Warning:

- ◆ The vehicle speed must not exceed 30km/h when driving on snowy or icy road.

Wheel shifting



Wheel shifting shall be performed every 10,000km. If uneven wearing is found after shifting, have the JAC dealer check the vehicle for timely correction.

After the shifting, adjust the tire pressure and check if the wheel nuts are properly fastened.



Warning:

◆ Under no circumstance should tires of twill cord and radial cord be used in a mixed pattern. This may result in death, serious injury or damage to the vehicle due to dangerous operation.

Balance of tires

Loss of balance at one tire may affect the operation and speed up the tire wearing. The JAC vehicle has been adjusted for tire balance before leaving the factory, but the balance of tires should be adjusted again after the first year of service. Each time when a wheel is removed, the tire balance should be adjusted again before fitting on a new tire.

Tire traction

Tire traction will reduce with worn tires, tires under inflation or when driving on slippery road. Excessively worn tires shall be replaced. To reduce the possibility of loss of control of vehicle, drive at a reduced speed on road with rainwater, snow or ice.

Replace tires



Warning:

◆ It is very dangerous to drive a vehicle with tires worn! Worn tires may reduce the braking efficiency. For tire replacement, never use twill cord tires and radial cord tires together, and never replace a tire of radial cord with one of twill cord. All tires of the vehicle shall have the same tread pattern as a whole set.

Your tires have an indicating mark for tread pattern wearing. This mark will appear when the wearing has reached 1.6mm. Replacement of wheels should be done with only two or more tread pattern grooves left.

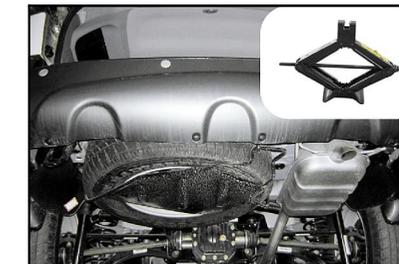
Replace a tire with one of the specified size. And for tire replacement, refer to the JAC Instruction Manual about wheel rim grooves and adjusting deviations.



Warning:

◆ Using tires and wheels of the size or type other than specified may result in loss of control, leading to serious injury or even death.

Spare tire and tools



Equipment provided by JAC Company:

- Spare tire
- Spanner
- Jack
- Jack handle

Specifications

Specifications

Size

Total length	4500mm	
Total width	1875mm	
Total height	1730mm	
Wheel base	2620mm	
Track	Front	1540mm
	Rear	1540mm

Fuel system

Fuel tank volume	65L
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Electrical system

Item	Gasoline
Battery	68Ah
Generator	95A

Tires

Standard tires	225/70 R16
Spare tire	Full size

Engine

Item	Gasoline		
	2.4L	2.0L	
Engine type	in-line DOHC, HFC4GA1-1	HFC4GA3-1	
Cylinder diameter × stroke	86.5×100	85×88	
Displacement (cc)	2351	1997	
Ignition sequence	1-3-4-2		
Power/Tague	Rated Power(KW)	100	95
	Max Torque(Nm/r/min)	193/3000	172/3000
Idling(r/min)	800±100	750±30	

Specifications

Specification for oils

Item	Engine oil and lubricating oil standard	Quantity
Engine oil	API grade SG or over	4.0L
Manual transmission gearbox oil	Hypoid gear oil, SAE 75W/90, API-GL4	2.3L
Main reducer	Hypoid gear oil (API GL-5, SEA 80W/90)	1.1L
Cooling liquid	High quality ethylene base glycol	7L
Power steering gear oil	Power steering liquid (PSF-3)	1L
Brake and clutch liquid	Braking liquid JG4	Appropriate quantity