Preface

Before using this vehicle,please go through this manual carefully in order to bring out its best mechanical properities and stay in good condition for a long period.

This pickup is designed by ANHUI JIANGHUAI AUTOMOBILE CO., LTD.(JAC) and it has a good performance of power,fueleconomy,smoothness and passing ablity,safe reliable braking,flexible easy maneuverability and easy maintenance and service by a comprehensive considering of china's road condition.All data and pictures in this manual are the latest ones but due to the continuous advance of technology,JAC reserves the right of modification without prior notice.Hope your understanding.

ANHUI JIANGHUAI AUTOMOBILE CO., LTD.
Hefei,Anhui
Febuary,2015

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Electric system instructions

T6 vehicle identity







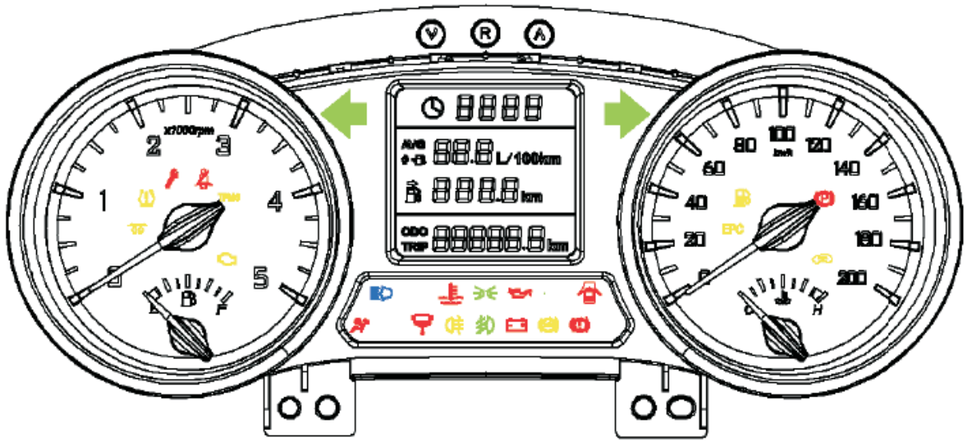
The ID lays at 3 places:

1.ID 1 lays at the left side of the down front windshield

2.The nameplate 2 sticked at the middle of the right door,bellow B pillar,on which it has VIN and engine No etc

3.The ID 3 is at the rear part of the frame for license plate registration(It should check the ID 3every 3 months and smear anti-rust grease)

Ⅰ. Instruments



Tachometer

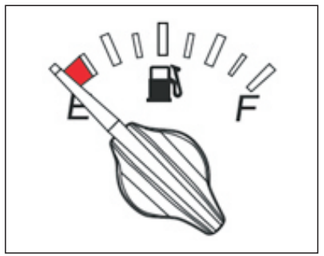


The tachometer shows RPM information,the red zone indicate the limitation of engine RPM.

If the needle in the red zone,stop the drive immediately,ifnot,it will cause severe damage to the engine.During the run-in period,it should avoid high RPM running.

The red zone range is decided by engine model.

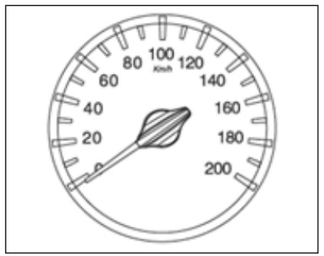
Fual gauge



When vehicle is at braking,acc-eleration,curves or on ruggyroad,the needle may shake up and down,it will return steady when the driving go back to stable at the same time the gauge reads the most accurate.

When the needle is at low zone,the fuel alarm light gets on,itshoud go to the nearby gas station for charging fuel.

Speedometer



The speedometer shows driving speed as km/h unit.

During run-in period,pay attention to Matters in run-in period.

Water thermometer



During the start-up it shall avoid running at high RPM.

Attention:Do not open the water tank cap when engine is hot,otherwise the coolant would burst out under pressure caused burned,therefore,it must wait till engine coll down to open the cap.

The thermometer shows the temperature of engine coolant as ignition switch on.

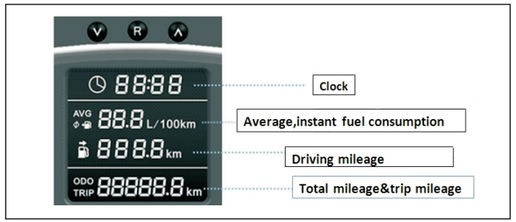
The needle stays in the middle as in normal driving,when it goes into the red zone and alarming light on,it needs to stop and pull over to check coolant volume and driving belt of water pump.If the cooling system goes wrong please contact JAC authorized service center for checking.

Attentions

When the outside temperature is lower than -30 or above 70 degree,it will cause reading distortion

Buzzer alarming

Buzzer alarming problems information			
Problem	Grade	Alarm condition	Alarm logic
Hand break unreleased	1	Hand break unreleased while speed is over 5km/h.	Buzzer constant alarm
Safety belt unlocked	2	Safety belt unlocked while speed is over 20km/h	Alarming at each 0.5s and lasting for 90s
Reversing distance alarming	3	Refer to reversing radar instruction	Refer to reversing radar instruction



ECU

The ECU is an information display panal controlled by micro-computer to show driving information like total mileage,tripmileage,drivingmileage,average fuel comsuption,instant fuel comsuptionect.If it detaches from battery,it needs to reset stored information excepte mileage.

Clock：Adjustable and set by 24hours model

Average fuel consumption:At ignition switch on but engine off condition,it displays the average fuel consumption of last trip,when engine is on,it displays average fuel comsuption,it updates by every 5s.

Instant fuel consumption:At idling state,when accelerated speed ≤5km/h or decelerated speed ≤3km/h,the instant fuel consumption is showed at L/h,when the speed is ≥ 5km/h,it showed at 100km/L,it updates by every 5s.

Driving mileage:It indicates the reachable distance that calculated on current fuel consumption and left fuel volume,it may not accurate but just for your reference,when the driving mileage is less than 50km,it shows ---.

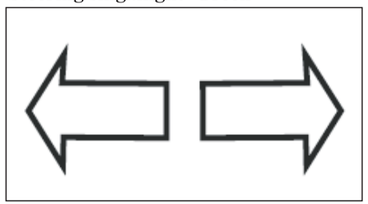
The trip mileage range 0-999.9km,the total mileage range 0-999999km.

Button operation:Short press(0.3s-6s) V button to select from up to down;Short press V button to select from down to up.As one line selected, it's indicated as blink.

Clock adjustment: Long press(>2s) R button to adjust hour by ∨and ∨button; short press R button to adjust minute by V and V button.

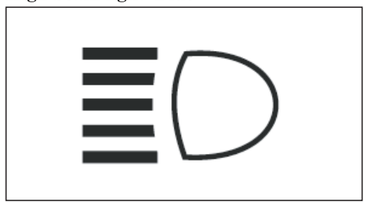
Average fuel consumption or trip mileage selected,it can be zeroed by long press of R button.

Steering singallight Green



If the blink period of steering singnal light is very short, it may caused by bulb burner or steering signal light in trouble,you should contact JAC authorized service center for repair,otherwise you may be invisible by other drivers.when press down danger warning button,the both steering lights as well as exterior steering singal light will blink.

High beam light Blue



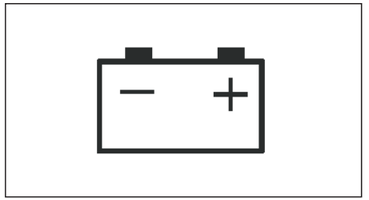
High beam light on triggers the indication light on

Position indication light Green

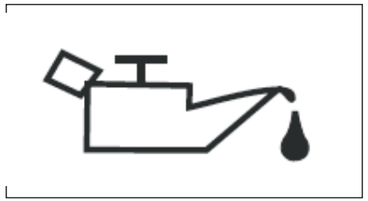


When key turn to ON gear,combination switches turn to position light gear, the indication light on meanwhile the instrument back light decreased to 80%.

Charging alarming light Red



As ignition switch at ON gear,the light on;as engine started,the light off.it means the power charging system in trouble if the light still on as engine running when you shall turn off all unnecessary power-consumin apparatus like radio,AC and interior light ect.Meanwhile,do not turn off the engine,it will cause more power consumption as restart the engine,Please contact JAC authorized service dealer for check.



Fuel pressure alarming light (red)

When engine oil is insufficient or system in malfunction, the engine oil alarming light gets on. Normally, it gets on when ignition switch turn to on gear, and it gets off when engine started. If this light is always on after engine started or during driving, it means engine oil volume insufficient or other problems occurred, under this circumstance, you need to stop and pull over and turn off engine immediately, after few minutes check the engine oil volume, if not enough, fill the oil and restart the engine, if the alarming light doesn't turn off within 10s, turn off the engine and contact the authorized service center for check.

Warning:

It may cause engine damaged as running engine when engine oil pressure alarming light on.



Brake failure iindicaton light (red)

When brake fluid is less or brake system in trouble, the light gets ON.

If the light gets ON, it needs to slow down and pull over at a safe spot.

When master brake cylinder is lack of oil, the light gets ON. After filling specific brake fluid and light off, no other problems found, it shall drive to the authorized service center for check immediately. If the light still on and with other problems, do not drive the vehicle again and waiting for towing service to transport your vehicle to the antuorzied service center for repair.

Warning:

When brake system is in malfunction, do not drive the vehicle any more, which may cause accident and hunman injury.



Fuel insufficient alarming light (yellow)

The fule level in tank is very low, the light gets ON, it needs to fill the fuel immediately, kerp on driving when fuel level at E place, it will cause damage to catalyst converter and engine off.

Attention:

It can move for about 60KM after fuel alarming light on.



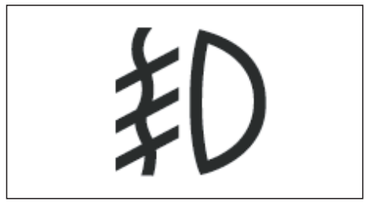
High water tempt alarming light (red)

If this light gets ON, it means engine coolant temperature exceeds normal value, it should pull over and open hood to check coolant volume and driving belt of water pump. If the cooling system in malfunction, it shall contact with JAC authorized service center for check.



Safety belt unlocked alarming linght (red)

When igniton switch turns from OFF to ON OR START gear and safety belt locked, the indication light off, otherwise, it means belt unlocked.



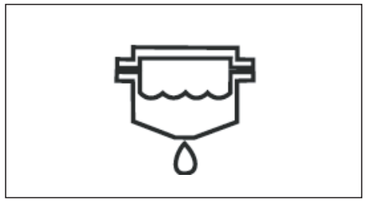
Front fog indication light (green)

When front fog light's switch connected, the indication light ON.



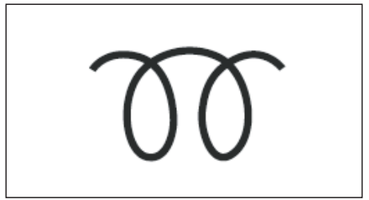
Rear fog indication light (yellow)

When rear fog light's switch connected, the indication light ON.



Fuel filter water volume indication light (red)

When oil-water separator's water level reaches the dangerous level, the light gets on, which reminds driver to drain out the water as the indiction light is still on during engine running.



Diesel pre-heating indicication lighe (yellow)

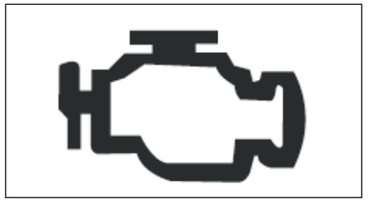
When ingntion switch locked at ON gear, the diesel temperature is low, the indication lighr gets on, it needs to preheat for awhilr to start the vehicle.



ABS failure alarming light(yellow)

When ignition switch turn to ON position, ABS failure alarming light gets on lasting for 3s,which means ABS system in good condition after self-check.

But as the light always ON or gets on during driving or it's not ON as ignition switch turned to ON position,it means ABS system in trouble,but the normal brake system still works,then you should go to JAC authorized service center for check.



EOBD indication light(yellow)

This light is a part of inside diagnosis system to monitor exhuast system parts broken or exhaust malfunction.

When ignition switch turns to ON position.it gets ON and get off as engine starts running,the light gets on or blink during driving,or light gets off as ignition switch turns to ON position,it means the exhaust emission system malfunction or over-exhuast gas emission,then the vehicle may drive normally but it needs to contact JAC authorized service center for check the problems in case of further damage to exhaust system.



Engine malfunction indication light(yellow)

When ignition switch turns to ON position,the indication lights gets on fos 2s,if not off after 2s,please pay attention to it for it may be a historic failure code.if it gets on during driving,please go to contact JAC authorized service center for check.

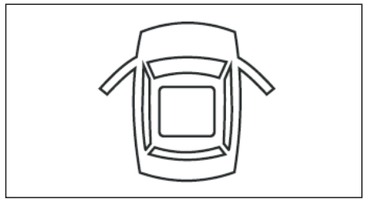


Airbag indication light(red)

When ignition switch turns to ON position or engine started,the indication light gets on blinking for 6s and then off,which means airbag system is ready.

If the light not off or gets ON during driving or blink and off,it means SRS system abnormal and please go to JACauthorized service center for SRS system check.

Warning
Ignore the SRS indication light ON-OFF phenomenon,it may cause service injury in accident



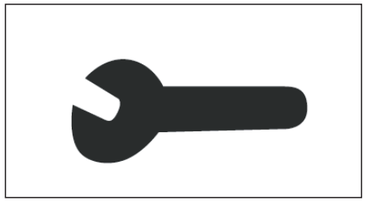
Door open alarming light (red)

Any door unclosed or not close well,the light gets on to remind drive to close the door well



Hand brake unreleased light(red)

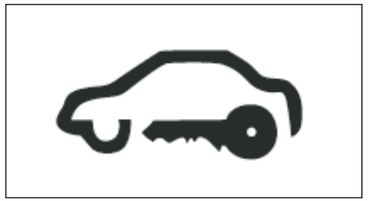
As ignition switch turns to ON gear,pull up hand brake,light on, hand brake down,light off.



Maintenance reminding light (red)

If one maintenance item reached 5000km,the wrench mark light gets on as ignition switch turns to ON gear to make the maintenance.

Tips:turn key to LOCK position,press R button steadily,then turn key to ON position,after 5s,the light off.the light will get ON until the next 5000km reached for maintenance.

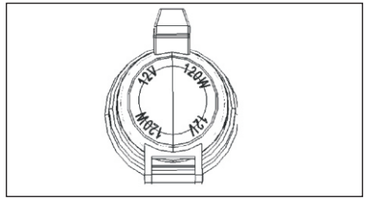


Engine immobilizer indication light(yellow)

The key to LOCK gear,the light blinks every 5s,turn to ON gear,lights off and in dark,immobilization function starts,if it's not off but blinks at every 5s,immobilization function failed,the vehicle can't start.

Attention
Turn ignition switch to ON gear,the fuel light,water temp light,safety belt light and egine oil pressure light gets on for 3s and off after self-check. ABS light,EPC light,airbag light gets on after individual control module self check.

Ⅱ. **On-board power**



The on-board power output is 12V,max power 120W.it needs a converter to match the apparantus,if necessary.

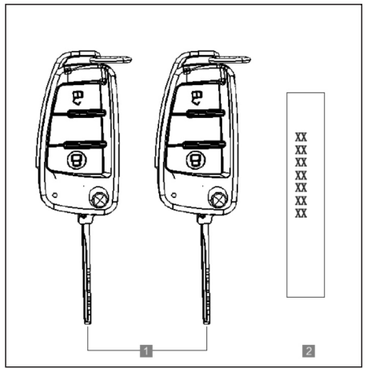
Ⅲ. **Electric horn**

Press down horn mark in the wheel to sound alarm for passer-by or other vehicle.

Ⅳ. **Stereo system**

About this pickup's stereo system instruction,please refer to CD/MP5 operation manual.

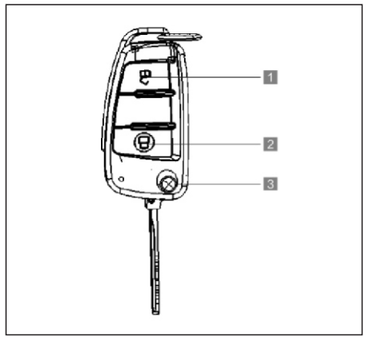
V.key and ignition switch



Each car has 2 sets of foldable keys with a plastic key plate.

1.Foldable key

2.If key lost,you need to provide this plate for rematching new key.For safety,please keep this plate in a safe place.



Remote control and folding

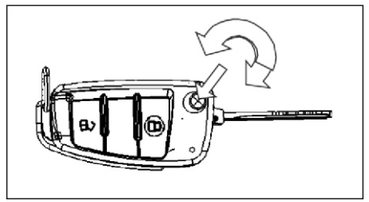
1.Door open button:Press it for door open with 2 times blinks of steering light.

2.Door closed button:Press it for door close with 1 time blink of steering light.

3.Folding button:press it to fold the tooth plate

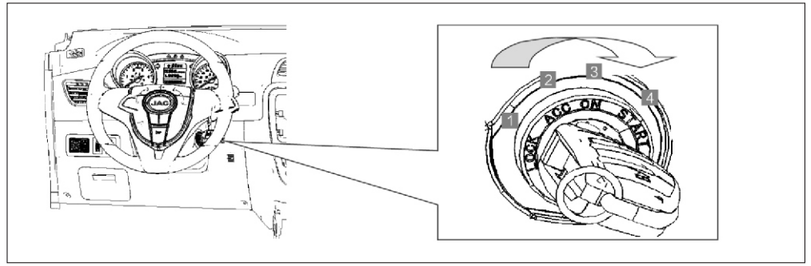
*To stretch out key,press 3 times to fold tooth plate automatically

*To fold key,press 3 times to close it manually.



Do not fold the tooth plate without pressing the button,otherwise it may damage the key.

Ignition



1.At LOCK gear,the wheel is locked and key can pull out freely.

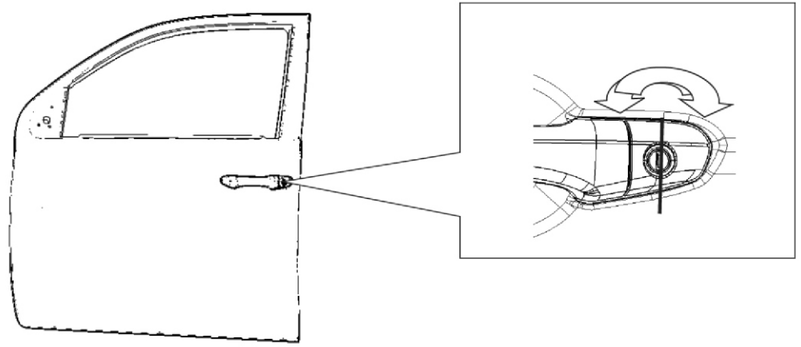
2.At ACC gear,some electric apparatus are availiable like radio,cigarette lighter.

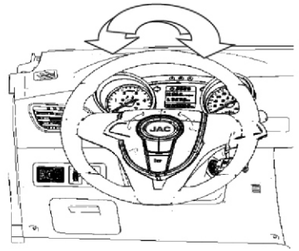
3.At ON gear,all electric apparatus are available with some indication lights in dashboard.

4.It can start the engine at START gear,keys can turn to ON gear automatically.

Open the door mechanically

When the romote control of lock doesn't work,it can be done by key's tooth plate mechanically



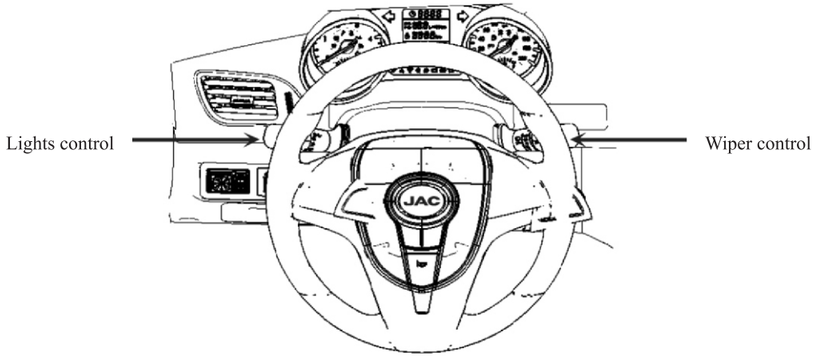
1.ACC gear to Lock gear operation instruction	2.After inserting the key and turn to LOCK gear, operation instruction for being unable to rotate
	
Press downward to turn key from ACC to LOCK gear	Rotate wheel at the same time turn key
At ON gear,the lights get on ,which means it's heating up the diesel,please wait for the light off then to start up	

Avoid below behavior that damage the key

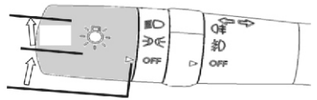
1. Severe shake,throw or fall from high place
2. Avoid high temperature or expose to sun
3. Avoid high environment
4. Avoid to contact with sharp,hard objects
5. Do not dismantle key in case of any dust or water get inside to shorten using lifespan,if you need to change cell,please go to local4S shop.

Ⅵ. Combination switch

Lights control



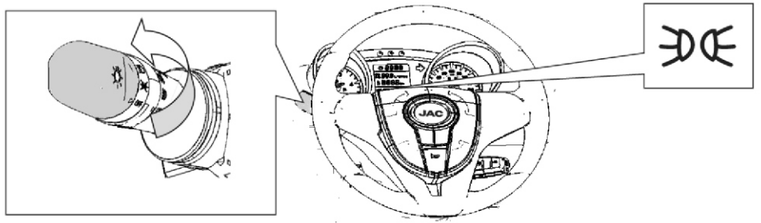
Clearance lamp,low beam light operation



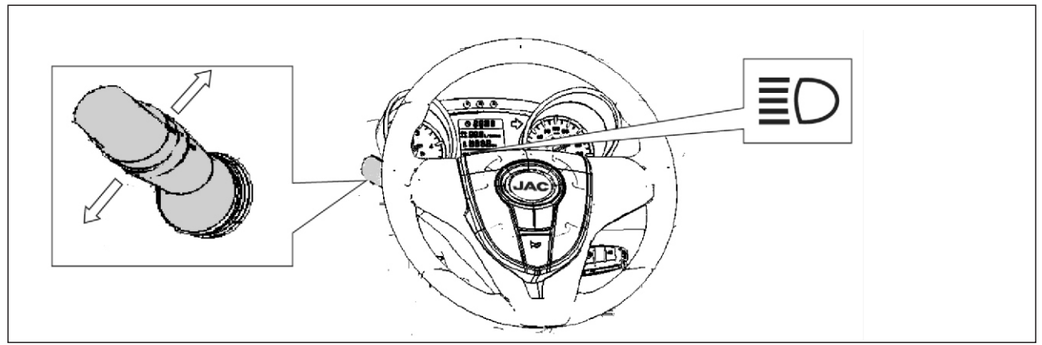
clearance lamp switch,turn to this gear to open clearance lamp and back light.

turn to this gear to open low beam light and clearance lamp as well.

When clearance lamp or low beam lights gets on,the green outline marker indication light always on.



High beam light and overtaking operation

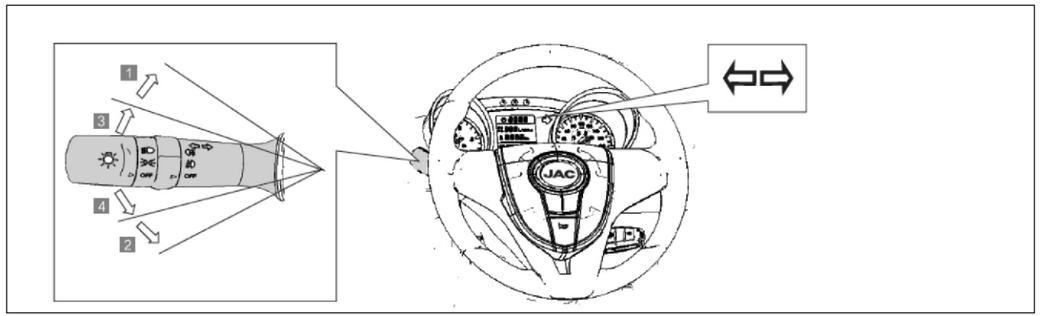


High beam light operation:pull down lights handle to open high beam light with blue indication light on in dashboard.

Overtaking light operation:push up lights handle gently and release

Tips:high beam light is only available as low beam light on.

Steering operation



1.Steer right,return automatically

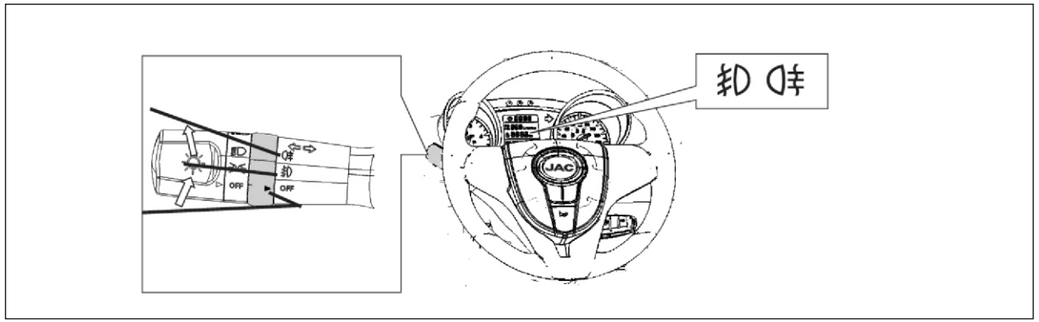
2.Steer left,return automatically

3.Right change-line,return manually

4.Left change-line,return manually

Tips:for above operation,the indication lights will blink all the time,if no blink,please check if the light broken

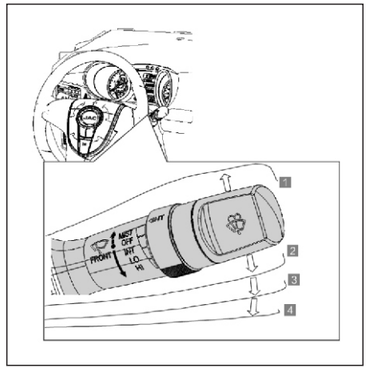
Fog light operation
Due to big power consumption,mormally it's used in bad weather condition like heavy snow or fog.



Turn switch to gear to open front fog light,which is only available as clearance lamp or low beam light on,meanwhile the indication light get on in the instruments.

Turn switch to gear to open rear fog light,which is only available as front fog light or lampet or low beam light on,meanwhile the indication light gets on in the instruments,The switch will return automatically after releasing.

Wiper operation



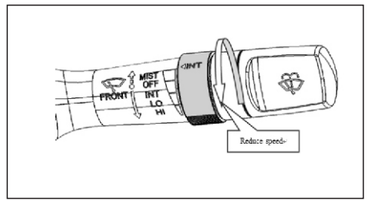
1.Wiping once,return automatically after release,wiping stop

2.Interval gear,wiping at a low speed and speed adjustable

3.Low speed gear,wiping at a even low speed

4.High speed gear,wiping at a certain high speed.

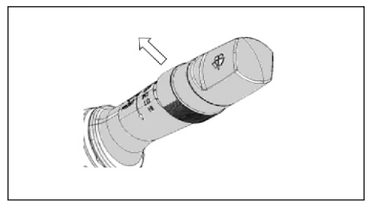
Interval adjustment



Rotation clockwise,speed increased

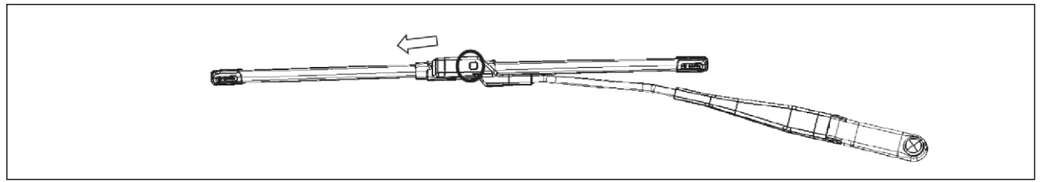
Rotation counter-clockwise,speed reduced

Cleaning operation



Pull toward wheel to inject water meanwhile wiping starts

Change wiper blade



1.Raise wiper arm 2.Press joint point of arm and blade 3.Pull blade upward

Tips

1.It’s not able to work more than 15s for cleaning machine.Prohit operation cleaning fluid in pot

2.In winter icy area,it should use anti-frozen cleaning fluid,check cleaning fluid regularly and fill fluid timely

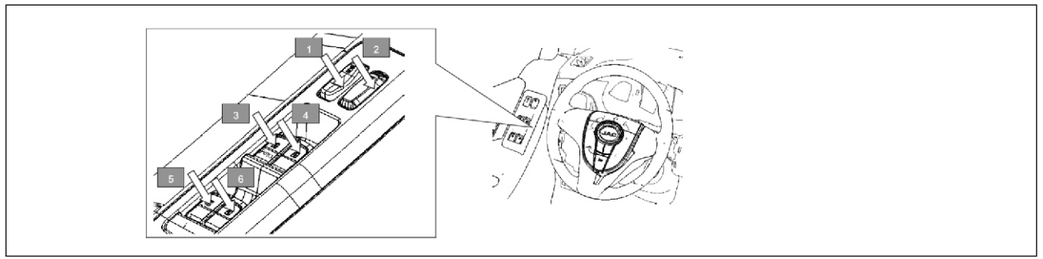
3.Please check if the blade frozen sticched on the windshield in cold weather,otherwise it would burn the motor

4.Check if any dust or impurities sticked on the blade regularly

5.Do not use wiper when windshield is dry otherwise it may cause blade premature wearout

6.The blade is easy-broken part,recommend to change 2-3 times each year for a better cleaning effect

Master switch of electric window operation



1.central lock switch,front end for open,rear end for close

2.window locked switch,all windows except driver side one are all locked after pressing it

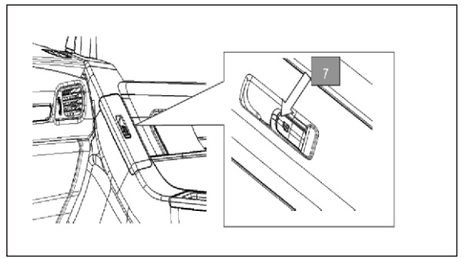
3.the driver side window control,up and down,press down 2 gears the window down to the bottom automatically,only the driver side window has this function

4.Front right door window up-down switch

5.Rear left door window up-down switch

6.Rear right window up-down switch

Electric window auxiliary(3 door)



7.Front right door,rear left and right door has independent auxiliary switch

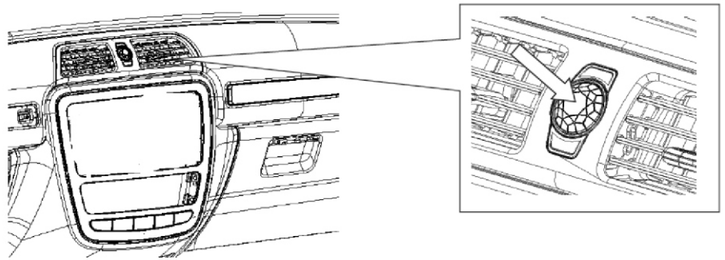
Tips

1.When child in the car,please lock the window in case of any injury

2.Avoid human body get caught in the window

3.make sure windows closed when left the car

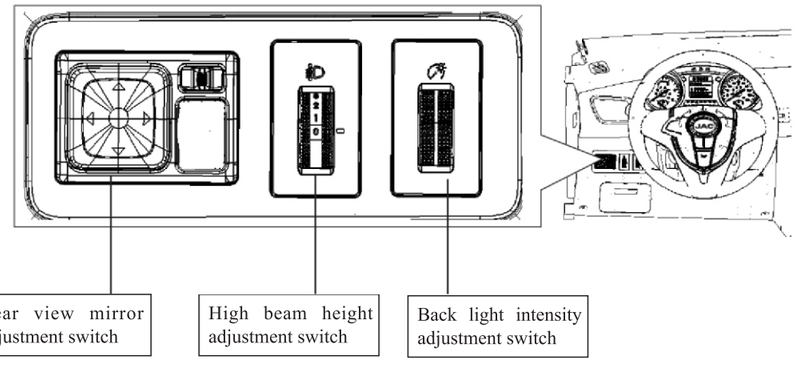
Warning light switch



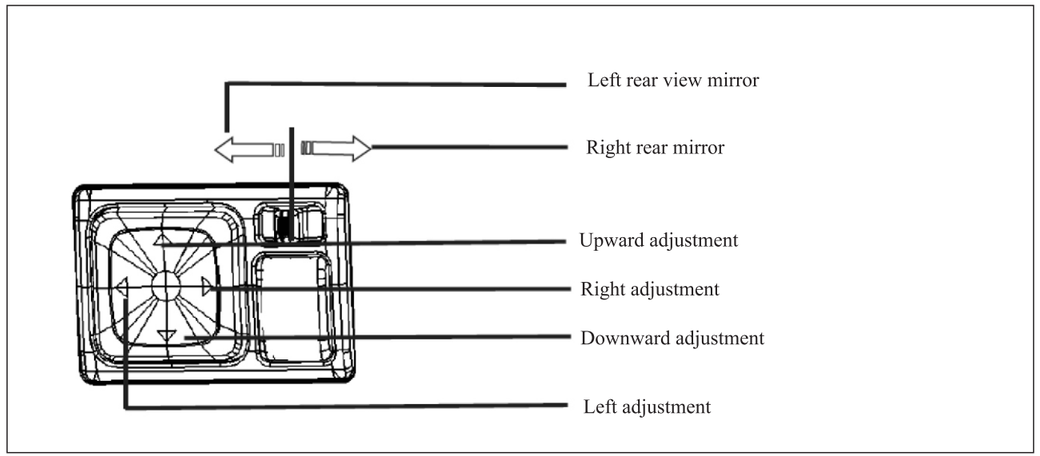
Press down the warning light button in the event of any emergency or bad weather,all steering lights blinka.Press again the blink stop

Tips: if engine is not start,please do not keep warning light on for a long time to save power

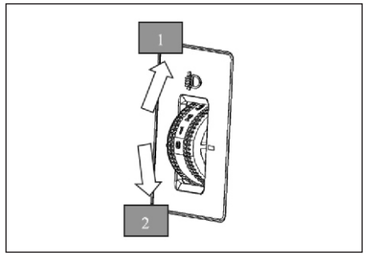
Left downside switch



Rear view mirror adjustment switch



Use this switch to adjust rear-view mirror angel

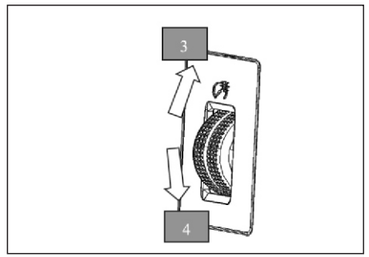


High beam light height adjustment

The driver can adjust low beam light's raying angle

1.Roll upward to increase high beam light raying angle;

2.Roll downward to decrease high beam light raying angle

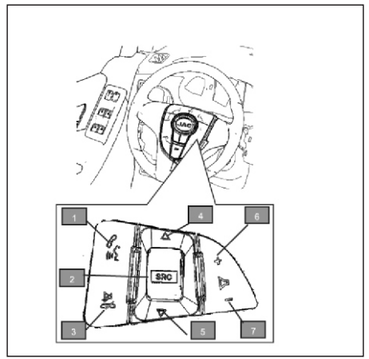


Back light adjustment switch

3.Roll upward to increase back light intensity

4.Roll downward to decrease back light intensity

Wheel adjustment switch



1.Bluetooth phone answering

2.Switch radio and Bluetooth

3.Radio mute or hang up phone

4.Next radio frequency or next song

5.Last radio frequency or last song

6.Volume up

7.Volume down

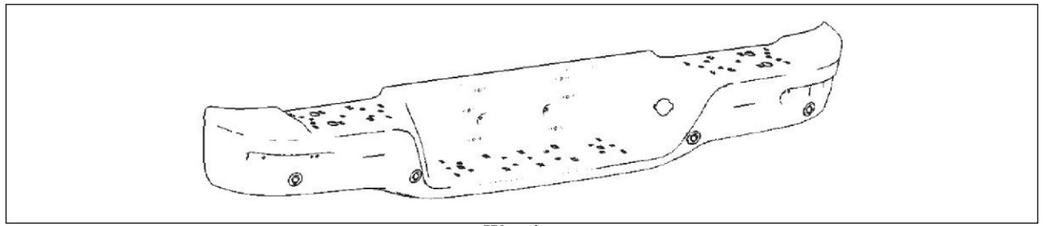
Ⅶ. Reversing radar system

As ignition switch turn to ON gear,engage into R gear,hear one “di”soud after system self-check,which means system in good condition and starts probe;if it’s the “di-di”sound,it means system in trouble,please go to service center for check.

As move out of R gear,the reversing radar system turns off.

When it’s found any obstacle at back side area in reversing,the system gives out short warning sound,the more frequent and shorter of sound,the closer with obstacle.when it’s getting close about 35cm with obstacle,the system will give out continuous sharp warning,please stop the car immediately,if keep getting close with obstacle,the system may lose function and unrecognized the obstacle and stop warning.

The reversing radarp robe the obstacle by 4 sensors in rear bumper as below picture shows.



Warning

Although this car is equipped with reversing radar,the driver still needs to be focused and parking safely.

1.The sensor can't detect obstacle or people in the blind zone

2.Keep an eye on child or pet in reversing because they can't be detected by the sensor

3.Pay attention to some special object(like clothes)surface can't reflect signal of reversing radar system,so they are may not detected by the radar

4.The noise outside may interfere with reversing radar system which may fail to detect objects

5.Some objects like disappear from the radar due to low or too high in the detection range,please pay attention to the warning of reversing radar,otherwise your car may be severely damaged

6.The sensor in bumper must keep clean without snow or ice covered,keep a distance with sensor when use pressurized nozzle to wash the car

7.The detection ability of radar may be undermined in bad weather like rain or snow for failing to detect obstacle

Reversing visual system(optional)

As ignition switch on and engage into Rgear,the central screen switch the image of rear side of car automatically,if no switch or image abnormal,the system may be broken,please go to service center for check.

Move out Rgear to turn off the reversing visual system.

Warning

The reversing visual system is only for aiding,but the driver must take full caution and responsibility during reversing and parking for safety.

1.Do not ignore to watch out surroundings because of reversing visual system and image screen

2.Do not confirm direction by sole relyng on screen aid in parking or reversing because some objects may not shown clearly in the screen

3.Keep an eye on child or pet since reversing camera's blind zone that may not be detect them all the time

4.Only use reversing visual system when the image is clear,the unclear image caused by dirty camera or light may cause an accident

5.If the image is not clear please do not use reversing visual system for avoiding any accident

6.The reversing camera can't recognize the dent or hole or hump in the road

7.Keep an eye on child or pet in the reversing because they can't be detected by the sensor

8.To use reversing visual system under streetlight may cause ripples in the screen image,be sure about surroundings

9.Do not use reversing visual system in case of camera installation position or angle changed or car rear part get crashed

10.Use reversing visual system only as cargo box's gate closed completely and prevent any cargo blocks the camera

11.Do not use hot or warm water to wipe snow/ice on camera that may break the camera

12.Do not use detergent of grinding ingredient during cleaning camera

Ⅷ Engine immobilization system

The engine immobilization system can prevent other people to start the vehicle illegally.Inside key there is an integrated chip which will finish identity verification with the system as ignition switch turn on gear and allow to start engine.

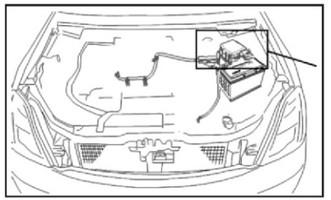
In the instruments,there is an indication light 

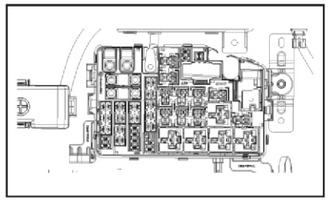
As ignition switch off,the indication light blinks slowly(about5s once)meaning immobilization system activated.As ignition switch turns to ON gear ,the indication light is off meaning immobilization deativated,but if the indication light blinks quickly,it means the system failed or malfunction,the vehicle can't be started,please go to the service center for check.

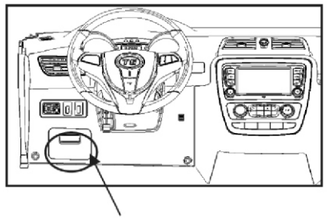
Chapter II Electrical system operation manual

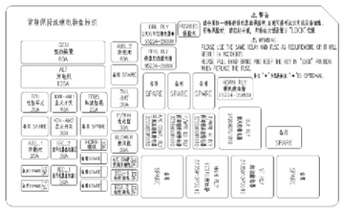
I. Whole vehicle fuse

The pickup has 2 fuse and relay boxes, one relay box is beside of battery in engine housing, the other one is at the left side of driver in the cabin, at the down left of wheel by opening overhaul cover plate, the mark of fuse and relay is printed on cover of relay box, as below picture shows.





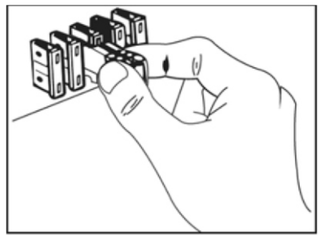


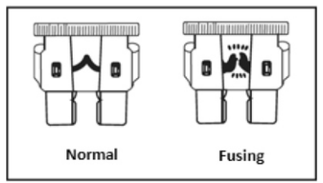


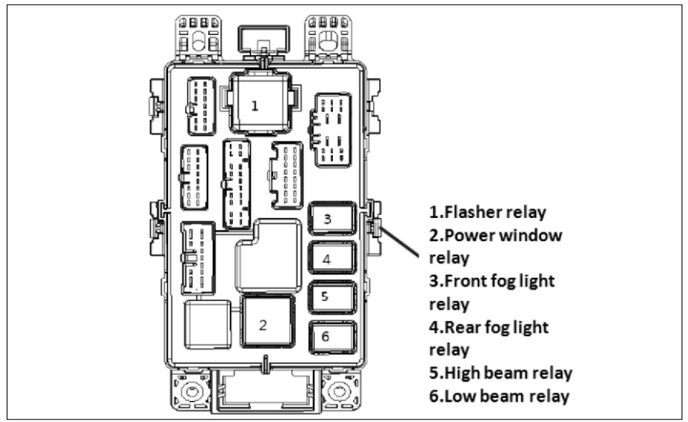
In-door relay box

If the fuse is blowing out, please check and find reason and take counter measures before repairing.

If change the fuse, please turn ignition switch to LOCK position and make sure use fuse of the same current value.







Change fuse:

(1) Open fuse cover

(2)Find out broken fuse wire by blown-out fuse

(3)Take out burned fuse by fuse picker

(4)Confirm fuse blown-out reason and shoot the trouble

(5)Install new fuse of equal rate current

Attention:

(1) Please use special fuse picker when changing fuse.This pickup has special fuse picker inside engine housing and relay box in cabin

(2) Do not use conductive tool to take out blown-out fuse, which may cause short-circuit and electrical system damage and severe human injury

(3) Use fuse alternative or different model, rated current value fuse, which may cause electrical system damage, fire. Make sure use the correct fuse of the same model and rated current value

Warm tips:

Indoor fuse and relay box has 4 sets standby fuse (10A, 15A, 20A and 25A) for changing blown-out fuse

Warning:

As for changing fuse, make sure turn ignition switch to LOCK position and use the same model and rated current fuse.

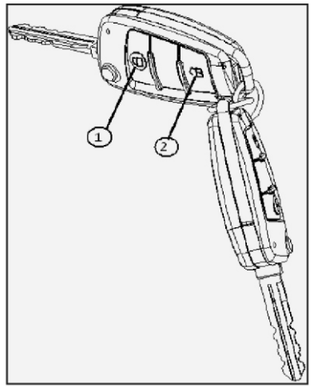
Attention:

Do not install non-original electrical equipment or modify other electrical apparatus, otherwise it may cause short circuit or fire.

II.Key system

Remote control door lock

Each pickup is equipped with 2 sets of keys



1. Lock 2. Unlock

Remote control operation

Lock: Within 20m range to press button 1 to lock all doors with one blink, if no blink please check if doors are locked

Unlock: Within 20m range, press button 2 to open all doors with 2 blinks, if no action and insert key within 30s, it will relock

Warning: Do not leave child or key in the car alone, which may cause severe accident or injury. The JAC authorized dealer will provide you extra key as long as you can provide key´s code.

Tips: If you find the key´s working range decreased, as a normal phenomenon, you can try the below measures:

- Check the distance, you need to stand closer with car in rainy, snow weather
- Check if any car or obstacle block the signal, try again by raising key higher or moving several steps away
- When your car is exposed under strong magnetic area like radar station, power convertion station, the key may lose function, try to open by mechanical key
- Check if the battery is dead and change it if necessary
- For further help, please contact the authorized service center

Anti-theft system

The anti-theft system is activated when use key or remote control ejector and it will not be activated by just closing the door by hand

Activate anti-theft system

Activate anti-theft system by below steps:

1.Turn ignition switch to LOCK position and pull out the key

2. Make sure all doors and windows closed

3.Use remote control ejector or insert mechanical key into front left door to lock it

a)Lock door by ejector which comes with warning lights blink

b) All doors will be locked

c) Anti-theft model activated

Taking below steps to prevent accidental alarming:

Use remote control ejector or mechanical key to lock/unlock door, other ways will trigger the alarming. If the anti-theft system is unable to activate, please use mechanical key to lock front left door.

Anti-theft system off

1.Open the door by key

2.Open/close door by remote control ejector

It will start anti-theft system again if no action or insterting key within 30s

Change battery

When cell becomes weak in volume, it may need press several times to lock/unlock and indication light not on.

Change the cell: Cr2032



Instruction

1. Open rear cover
2. Take out old cell
3. Put in new cell
4. Close rear cover

Note: Please consider environment when discard the cell

When change the cell, keep distance with circuit board, the static electricity may break ejector.

Do not touch cell up-down sides as hands without glove.

Follow the local recycling rule of cell and don´t discard the cell with life waste.

Do not drop ejector onto ground.

Do not place heavy object on ejector.

Do not get in water or exposed under sun.

Dry up ejector by soft towel.

Ⅲ. Battery

This pickup is equipped with 12V maintenance-free battery in engine housing, please change the new battery with the same part NO.

Attention: The terminal, blinding post and other parts of battery of battery contain lead (Pb and other chemicals) so wash your hands after contacting with battery.

The battery constains toxic material, please use special equipment and meeting local environmental rule to discard it.

1. Storage

If you don´t use the car for at least 3 weeks, please detach the cathode wire of battery.

Attention: Be careful with battery acid liquid to avoid any burned or injury

⑴ Keep battery upside clean and dry

⑵ Keep binding post and connector clean, tight and with grease

⑶Pour alkaline solution to electrolyte immediately

⑷If long time of no use the car, detach the cathode wire and charge in time as lower than 12.4V

⑸ If battery power insufficient, intensity of electrolyte decreased, the frozen point of electrolyte is close with water, it will cause electrolyte frozen, shell break, pole plate curved, active, material peeling off.

⑹ The maintenance-free battery is prohited to be upside down and can´t place inclined at 45 degree for above 60 minutes.

Clean binding post

⑴Turn off ignition switch and pull out key

⑵ Detach battery cathode binding post first, then take down clabe clip from binding post by wrench

⑶Clean binding post by steel brush

⑷Check if it has white or light blue powder around binding post, if yes, it means that binding post has been corroded.

⑸ Clean corrosive material by alkaline solution and turn to brown bubbles.

⑹ As no more bubbles, splash with clean water and dry battery by cloth or tissue

⑺Connect and tight anode(+)binding post first, then cathode(-)one

Attention: The terminal, binding post and other parts of battery contain lead and other chemicals so wash your hands after contacting with battery

Urgent start-up

When battery is insufficient power to start, it can use crossing-cable way, i.e, to use the same rated voltage 12V auxiliary battery.

Attention:

⑴Prohit to starting the car by pushing or towing way which may damage the catalyst converter or automatic transmission

⑵ The battery may explode, and the acid electrolyte and short-circuit of electrical which all may cause human injury. Do not get battery close with fire or spark and learn human body over battery as make crossing start

⑶ Prohit to contacting terminal of cable

It mast wear safety goggles when operate battery in short distance.

Do not get battery´s acid liquid contact with eye, skin, texitile or paint

Make sure that rated voltage volume of auxiliary battery the same as original one in crossing start-up.

Prohit to detaching battery of no power

Any violation of above attentions in crossing start-up may cause battery explode, human body burned by acid liquid and short circuit of electrical system of both cars.

3.4.1 Crossing start-up preparations

⑴ Pull up hand break

⑵ Engage into neutral gear

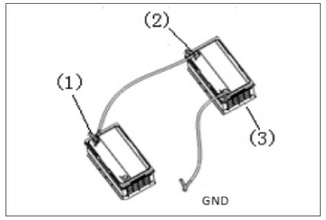
⑶ Turn off all electrical apparatus

Attention:

Do not pass crossing cable onto rotation parts of engine house, otherwise it may damage car and get human injuried.

3.4.2 Connect crossing cable

Connect crossing cable by below steps:



⑴ Connect terminal of the first crossing cable to anode binding post(+) of fully charged battery

nnect the other terminal of the first crossing cable to anode binding post(+) of the car to be started

(3) Connect terminal of the second crossing cable to cathode binding post(-) of fully charged battery.

Attention: Do not connect to the cathode binding post(-) of the to-be-charged battery in final connection, which may cause electric arc or battery explosion to cause severe human injury. Instead, connect the clip to steel bracket that fixed to engine cylinder block by bolts, that final connection spot shall as far away with battery as possible.

(4) Make sure the proper final GND connection spot like steel bracket that ficed to engine block by bolt.

(5) In crossing start-up, the power supply car can run its engine

Attention: Start up engine of the battery discharged car, each start-up time is no more than 15s and 1 minute interval.

After starting up of already battery discharged car:

(1) Detach GND connector(-) carefully. Detach firstly from battery already discharged car which keep its running.

(2) Detach the cathode leading wire from provide crossing start-up car.

(3) Detach anode leading wire of both batteries.

(4) Running about 20 minutes of already discharged car to power battery.

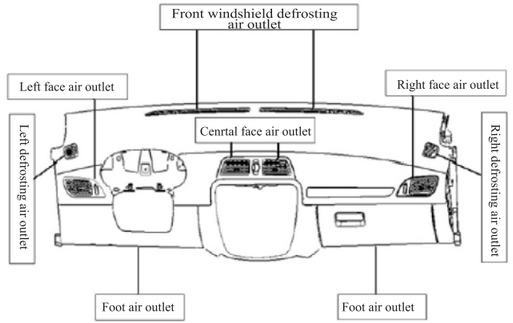
(5) If discharging happened again, please contact with JAC authorized service center for help.

IV. AC system

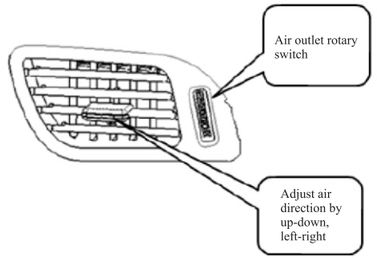
1. AC system overview

The AC system of this car is of cooling-hot integrated effects, which can provide cooling, hot, defrosting, defogging functions by operating different buttons and rotary knob in console to create a confortable inside environment.

2. Air oulet layout

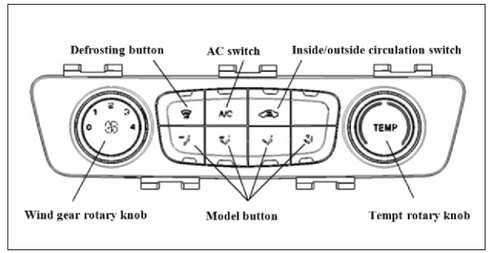


Air outlet layout diagram



Air outlet grille diagram

3. AC control buttons functional instruction



Drawing	Function	Instruction
	Blow face	Press the button,wind blow to face
	Blow face and foot	Press the button,wind blow to face and foot
	Blow foot	Press the button,wind blow to foot
	Defrost and blow foot	Press the button,wind blow to foot and front windshield
	Defrost	Press the button,removing the fog and frost on the glass
A/C	AC Switch	Controlling the opening and closing of the cooling mode
	Circulation switch	Switching circulation mode (The light on for the inner circulation, go out for the outer circulation)
	Air volume knob	Adjust the air volume, first gear minimum, fourth gear maximum.

4. AC system functions description

1.Cooling

Max cooling wind

In hot summer days, to reach a quickest cooling effect:

(1) Open the window a little bit

(2) Turn fan rotary knob to the max gear

(3) Press down AC and inner circulation button

(4) Press down face-wind model button

(5) Turn tempt rotarty knob to max position of blue zone

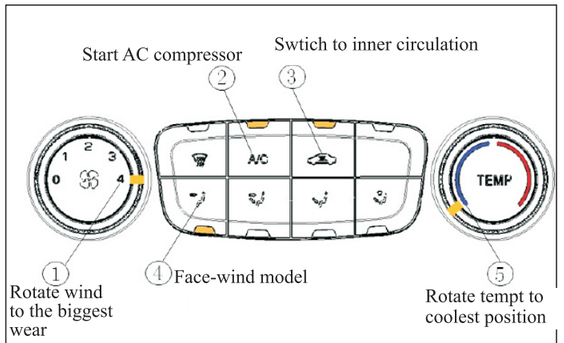
Normal cooling wind

(1) Turn fan rotary knob to proper gear

(2) Press down AC and inner circulation button

(3) Press down face-wind and or foot-wind model button

(4) Turn tempt rotarty knob to blue zone to get cooling wind



Attention

● When press down face-wind model, at least one wind-outlet shall be opened, otherwise it may be defrosted for cooling equipment.

2. Heating

Max warm wind

(1) Turn off AC switch(indication light off)

(2) Turn fan rotary knob to max gear

(3) Press down inner/outside circulation switch

(4) Press down foot-wind model

(5) Turn tempt rotary knob to max position of red zone

Normal warm wind

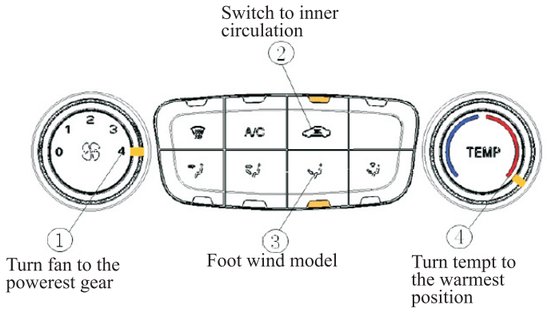
(1) Turn off AC switch

(2) Turn fan rotary knob to proper gear

(3) Press down inner/outside circulation switch

(4) Press down foot-wind model

(5) Turn tempt rotary knob to proper position of red zone



Attention

● Do not use max warm wind model in long time, otherwise the internal air quality will go down, window of fog. Clear the window fog and turn off inner circulation to let fresh air in.

3. Defrost and defog in winter

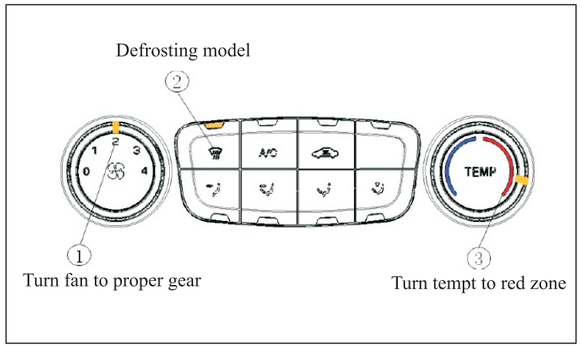
(1) Turn fan rotary knob to proper gear

(2) Press down defrost button and inner circulation button

(3) Turn tempt rotary knob to proper position of red zone

(4) To defrost or defog in the shortest time, it can turn fan rotary knob to max gear and tempt to the warmest.

(5) In order to keep front windshield clear, it can press down foot-wind model and defrost button.



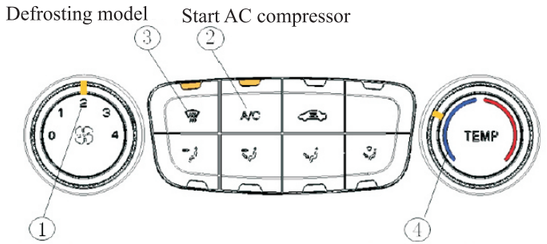
4. Defog in summer

(1) Turn fan rotary knob to proper gear

(2) Press AC and defrost button

(3) Turn tempt rotary knob to proper position of blue zone

(4) To defog in the shortest time, turn fan to the max gear, tempt to the coolest gear.



Attention

● In extreme humid environment prohit to use defogging model or foot-wind model to defog when temp rotary know in blue zone.

4. Operation attentions

(1) As the car exposed under sun in hot summer for a long while, please open the window for hot air dissipation, then close the window and turn on AC, firstly outside circulation then inner circulation, which will increase cooling efficiency

(2) To use inner circulation in long time, it will decrease inside air quality. Recommend to switch to outside circulation for a while or turn off the AC as it gets cooling down inside.

(3) In winter or unusual AC using season, please turn on AC compressor sometimes for few minutes to facilitate lubricant circulation to maintain best working condition.

(4) Rotate fan knob first then press down AC switch

(5) If it doesn´t use AC for a long time, it´s better to make sterilization and deodorization treatment for the first time use because it breeds fungus and mould in the system, which will not only deteriorate air quality but also expose passengers health in harm.

(6)Turn off AC in summer, recommend to keep blower working for 1 or 2 minutes to dry up water on surface of evaporimeter core to prevent from breeding of mould.

(7) After stop the engine, make sure turn off AC to decrease burden of engine for next start-up.

(8) Prohit to use AC in bad ventilation, window closed condition at parked because in cylinder it may exist high density CO which has once been inhaled into inside of vehicle to cause probabe passengers poisoned or even death.

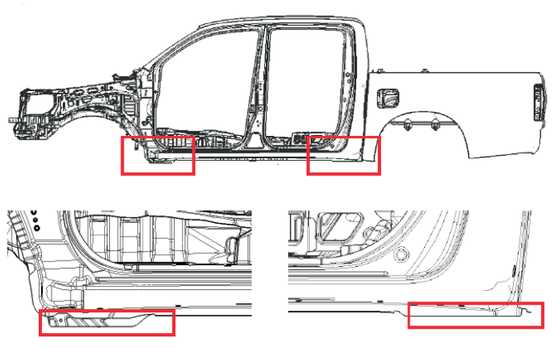
(9) Please check AC filter core regularly.

Chapter Ⅲ Vehicle body system instructionsl

Ⅰ Body system instructions

Body hoist

There are special position mark for body hoist,which are at front and rear end of the doorsill of body,the schematic drawing as below

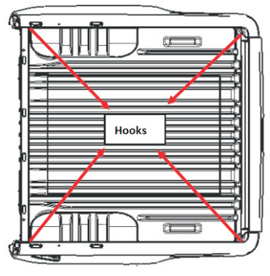


Attention

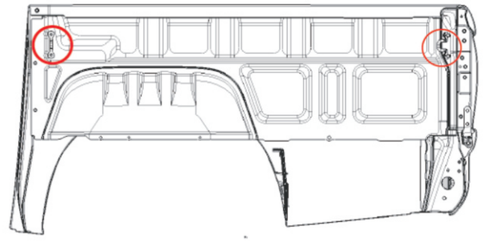
Please park at even flat ground,pull up hand brake when raise the body as support end of hoist aligned with body's hoist mark.Put jack under the exact below spot of hoist mark of body,otherwise it will cause deformation of body panel.

Rope hook of cargo box

The cargo box has 4 rope hooks at each corner of cargo box as below drawing shows

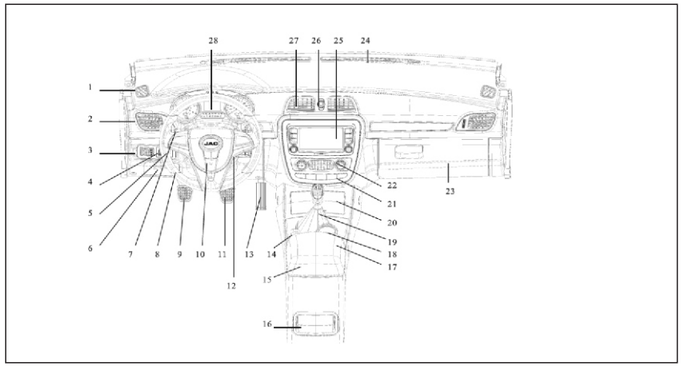


Hooks layout drawing



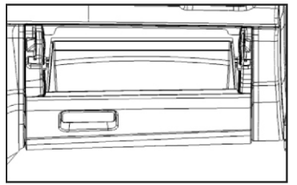
Hooks feature drawing

Ⅱ. Interior system instructions



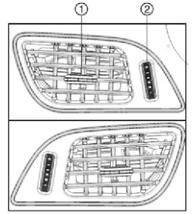
1.Lateral defrosting air outlet
2.Lateral face-wind outlet
3.Rear-view mirror adjustment switch
4.High beam light height adjustment switch
5.Lightness adjustment switch
6.Overhaul cover plate
7. Combination switches
8. Wheel
9. Clutch pedal
10.Horn
11.Brake pedal
12.Ignition lock
13.Acceleration pedal
14.Paking brake handle
15.Armrest box
16.Rear storage box
17.Cup tray
18.Ash tray
19.Gears shifting operation mechanism
20.Front storage box
21.Reserved switch civer cap
22.AC controller
23Glove box
24.Front defrosting air outlet
25.Syereo equipment
26.Warning light switch
27.Central face-wind outlet
28.Instruments

Glove box



Open glove box to put daily stuffs in like glasses box,map,book,beverage in can ect

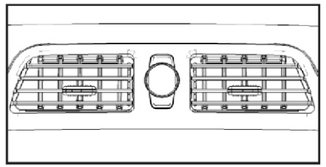
Face-wind outlet(L/R)



Pik 1---Adjust wind direction

Pick 2---Adjust wind volume and open-close of wind mouth

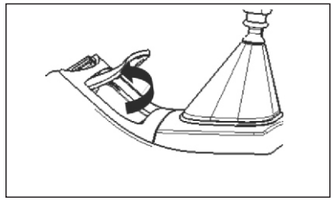
Central face-wind outlet(L/R)



The central face-wind out is always open.it can adjust wind direction by pick,it can close by setting of ACmodel

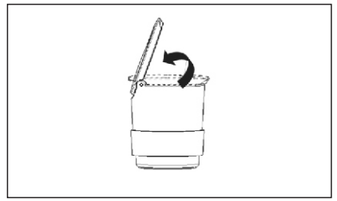
Warning

Avoid to open glove box during driving,which may cause objects inside flying out when emergent brake to cause human injury.Do not put fragile and explosice objects like glasses,lighter in case of accident since the high temperature in glove box.



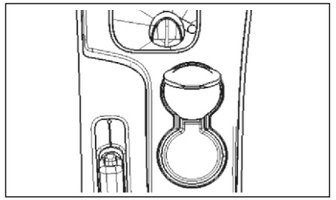
Front storage box

Press gently of box silver strip to open it,inside it can put small some objects like cigaretter,IC card,cellphone.Do not close the box by force.it has auxiliary power and USB interface.



Ash tray

It is located at rear of gears shifting handle,it can take out directly for cleaning.Do close the tray cover after using in case of fire accident.



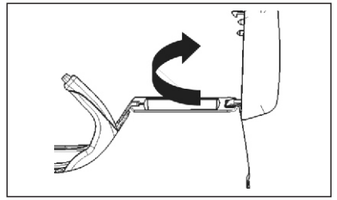
Cup tray

The cup tray located at the right of gears shifting handle,can put cup,beverage bottle etc.

Attention

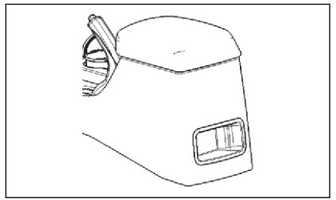
Place only sealed bottle in cup tray;

Be carefull of hot liquid splahing out.



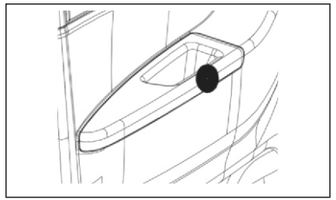
Armrest box

Pull up armrest box for pacing some sundries



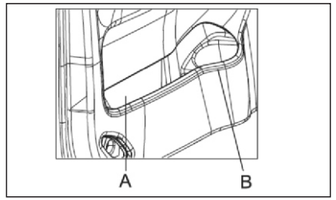
Rear storage box

It can place some small stuffs for rear passengers



Door panel

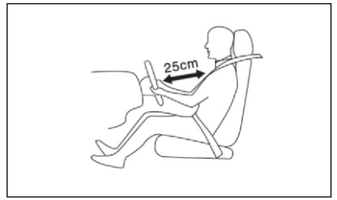
Pull inside for closing the door,pushing outside for openning



Door panel storage space

Area A:For placing newspaper,maop ect

Area B: For placing can,mineral water and bottle,make sure cup with cap prevent from splashing.



Seats

The seats of this pickup provide comfortable and stright siting posture at most for the maximum protection of belt and energy-absortion material.

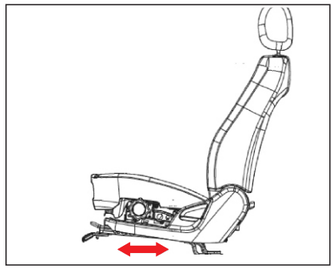
Driver's seats
In order to minimumize injury possibility,we recommend

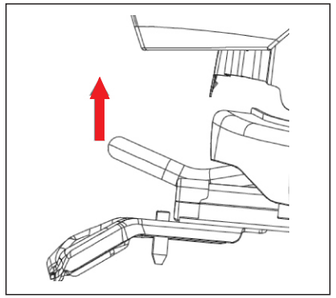
1.With safety belt

2.Adjust seat front-backward to make sure easy access to pedals

3.Keep the distance between driver and wheel for at least 25cm and nestle up to the seat and stay away from wheel as far as posiible without affecting operation

4.Adjust seat to keep driver's chest a proper distance from wheel in case of air-charging of airbag may injure you





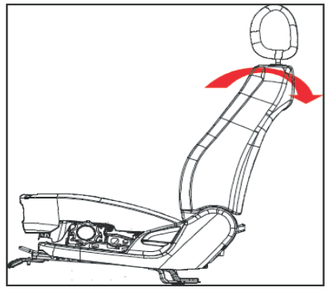
Front and backward adjustment of seat

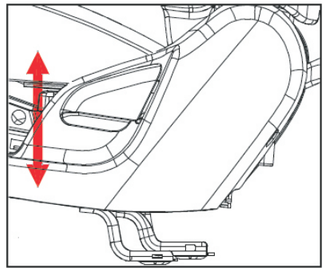
Pull up adjustment rod beneath seat to slide seat front or backward to the proper position then release adjustment rod and make sure seat locked well.

Attention

Do not adjust front seat too close with wheel and dashboard

Make sure seat locked well after adjusting otherwise it may cause injury during emergent brake or accident.





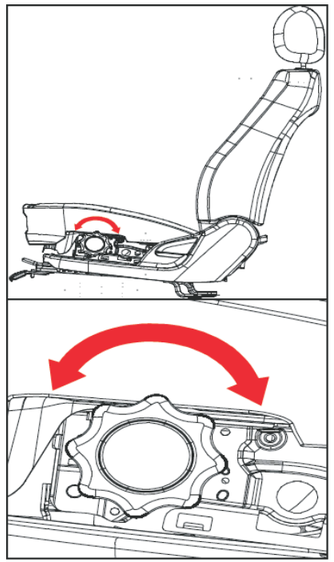
Backrest tile angle adjustment

This pickup has backrest tilt angle adjustment handle located at outside of seat.

1.Raise up adjustment handle to adjust backrest to the proper position

2.Release handle to make sure backrest locked well

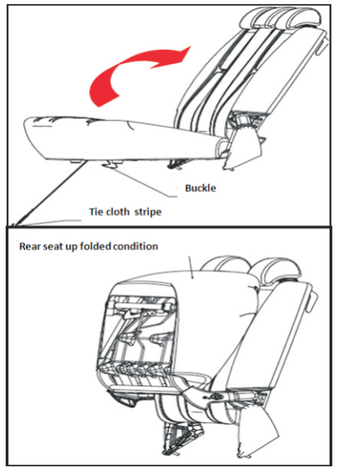
3.Return to previous position by pulling up handle and move body forward.



Seat height adjustment

This pickup has seat height manual adjustment rotary knob located at outside seat.

1.Rotate to adjust seat height to the proper position,clockwise for up,counter clockwise for down.



Rear seat

The rear seats can fold upward by pulling tie cloth stripe and releasing lock hook and lock the hook to metal plate's latch

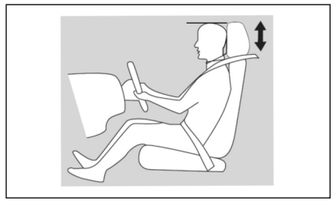
Attention

Make sure backrest locked well otherwise it will be unable to provide enough protection in emergent brake or accident.

1.Do not tilt seat during driving otherwise it will be unable to provide enough protection in collision

2.Keep driver and passenger's backrest at vertical condition otherwise the protection from airbag and safety belt will besubstantially decreased

3.The drive and passenger will slide to down part of safety belt if the backrest tilted losing full protection from airbag and belt.D o not try to adjust seat during driving otherwise it may cause accident or severe injury.



Pillow

Adjust pillow height according to head position and body height,the right pillow position can provide effective protection together with safety belt.

Make sure every passenger's pillow at right position before driving.



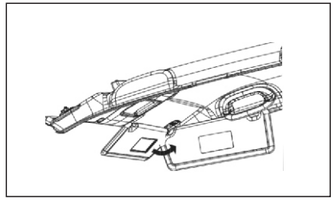
Pillow height adjustment

Grip both sides of pillow and pull up or down to adjust pillow to proper position

Keep pillow the same high as driver and passenger's head ceiling and no lower than eyes

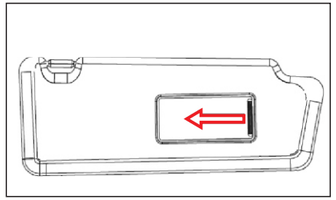
Attention

Unproper pillow position will decrease protection in collision



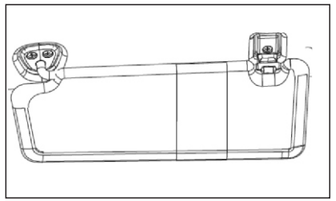
Sunvisor

This pickup has 2 sunvisors that can work both frontal and lateral side .off the hook and turn it to lateral side for using.



Make-up mirror

The co-sunvisor has makeup mirror for use in need by pushing the cover left.



Notes clip

The master sunvisor has note clip for putting notes and IC card.

Safety belt

1.Safety belt is the most effective protective device to protect passengers.

2.Integrate with vehicle to get protection from fixed safe device.

3.Protect passenger in all kinds of accidents and prevent from throwing out.

4.Help reduce risks of colliding with other objects inside of vehicle.

5.Help prevent from being throw out of vehicle in accident.

6.Help keep vertical siting posture to reduce possibility of getting injury in airbag explosion and get max protection from airbag.

7.Without carry safety belt properly,it would increase the possibility of severe injury or even death in collision,in most cases,safety belt can help reduce severe injury possibility.

Warning

1.One safety belt is only for one person to use,do not use one safety belt especially with a child in arms,which may have collision risks for 2 persons in accident.

2.Do not twist safety belt in use.

3.Check if safety belt has cut,breakage,deformation of metal parts,change it if it has.

4.Do not color or bleach safety belt so as not to affect it intensity and function.clean it by warm water or neutral detergent.

5.Replace all safety belt after an accident even without exterior flaw.

6.All passengers and driver shall carry with safety belts for protection

7.When seat is at vertical condition,the safety belt can provide maximum protection,But as backrest is tilted,the passenger may slid out of safety belt and get injured in accident,especially frontal collision accident.

8.Do not dismantle,decompose,modify or repair safety belt system,otherwise the safety belt would not perform normal function in collision accident.About safety belt service or replaceing,please contact with JAC authorized service center,Avoid safety belt to get damage from door’s hinge.

9.Tyr to pull tight safety belt as much as possible but with comforts for getting max protection in design,the loosened belt reduce the protection substantially for passengers.

Safety belt check and maintenance

1.Check regularly belt,hasp,tongue plate,retractor device and bearing to see if any damage.

2.Do not put sharp objects close with safety belt.

3.Replace safety belt if it gets cut,weaks,crack or collision capacity.

4.Check if standing bolt of bearing is tightened on floor.

5.Change any found problemed parts

6.Keep safety belt clean and dry.

7.Clean safety belt by warm water or sopa water of less alkalinity.

8.Do not bleach or color safety belt otherwise it will reduce its strength.

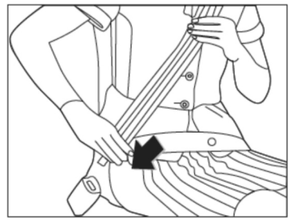
In this pickup,it has 2-points and 3-poins safety belt that is for both shoulder and waist.

1)Buckle up safety belt

Pull up safety belt slowly and cross shoulder and waist even,insert metal buckle into corresponding cassrtte as hear a sound of “ka”.After adjusting waist belt ,the belt will strentch automatically to fit your hip.

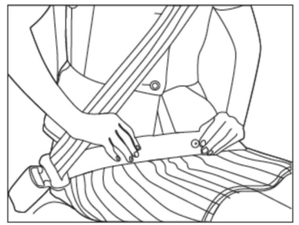
If you incline or move forward slowly,the belt will stretch automatically but if it’s a sudden or strong collision,the belt will automatically locked and control the passenger’s body.

The belt will be locked also if you incline forward quickly.



2)Adjust safety belt

Pull downward safety belt as much as possible to lay it pn hip istead of waist so that it can bear the shocking force by solid pelvis and upper body bones and reduce sisks of interior wound,Besides if the safety belt is at a high place of your body,you may slide out during emergent brake or accident,which may be fatal or cause severe injury.Do not put both hands at one side of belt,place them at both side.

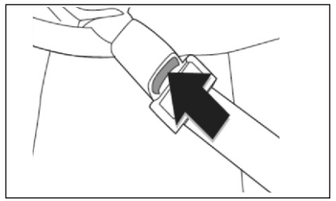


3)Release safety belt

Press down release button in cassette to release belt,which will be retrieved automatically,if not,please check if it is twisted and try again.

Attention

The buckle of belt can only insert into its corresponding cassette otherwise it will affect its protection effect and increase injury possibility



4)Safety belt heigh adjustment

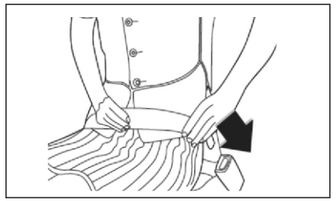
If the length of belt is improper,it can move belt's height adjustor to proper position by pressing down button on direction ring plate.

Warning

1.The wrong wear safety belt may be fatal and cause severe injust in crash.

2.Do not put shoulder part belt under arm or behind back,which will increase injury risks in crash.

For 2-points safety belt instructions,please refer and adhere to below material.

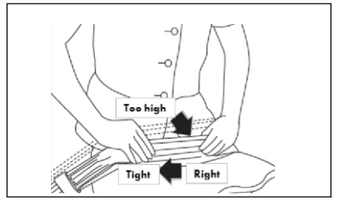


1)Buckle up belt

Insert buckle into corresponding cassette as hear a sound of "ka"and adjust the tightness,The release way is the same as 3-points belt.

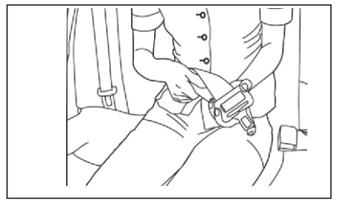
Warning

The 2-points safety belt must cross hip instead of belly and fit tightly.



2)Adjust safety belt

It needs to adjust 2-points safety belt's height manually,Pull tight of loosen end and keep belt as low as possible to your hip instead of belly.If it is too high,it will increase possibility of injury.



3)Stretch safety belt

Stay a certain angle between buckle and belts as adjust belt's length,it is much easier to hold buckle for adjustment.



4)Shorten safety belt

It just need to pull free end of belt to proper length and fix redundant belt by plastic clip.

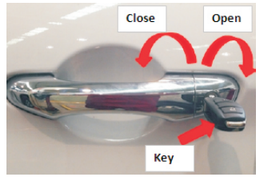
Before driving

1.Adjust seat position

2.Adjust interior and exterior mirror.

III.Door panel system instructions

Lateral door and lock

Attention The in-door temperature will go up quickly. 1.Do not leave child or pet alone in the car otherwise it may cause sevee injury or death accident.Children can operate power windows or other controls, or even start the car. 2.Do not leave child with keys in the car,which may cause severe injury or death accident.		Lock the door from outside by inserting the key and rotate counter clockwise and open by clockwise rotation.
Kind reminder Make sure all doors locked when leave the car		Insert key into front left door by rotating clockwise or counter clockwise to open or close all four doors.



Press down door-lock button inside to lock door.



Pull door handle to open the door.

Once open system for front left door

The driver side inner handle can open all doors at once.



Unlock the door from inside, poke outward door lock button.



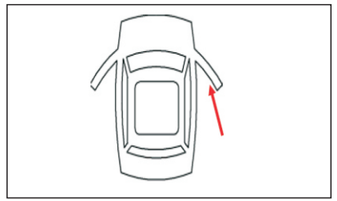
Pull out door handle.



Lock button closed before openning

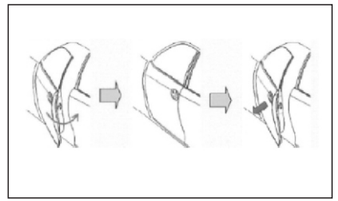


The lock button open as handle pull-up



Door unclosed caution

If one door is not closed,the door-unclosed indication light gets on in instruments until it is closed.

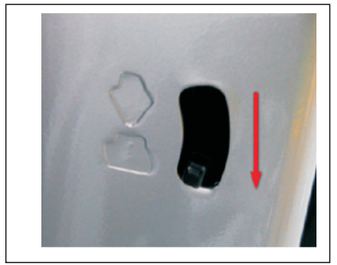


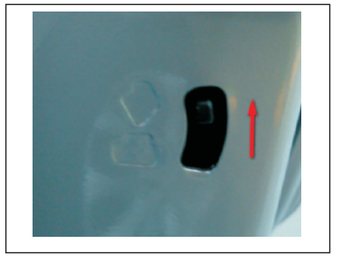
Anti-indiscretion lock system of front left door

As lateral door open,turn interior lock button to locked condition,then without any operation of outside door handle,the locked condition will be turned off so as not to lock lateral door accidentally.

If the key was left in the car uncautiously,locked inner locking device,close the door,it can be opened by pulling up outside handle.

Children safety lock





Both rear doors of this pickup has children safety lock to prevent from child to pull door handle inside to open the door accidentally

Kind reminder

Do not pull inner handle as children safety lock at“locked”position otherwise it may be broken

Children safety lock use

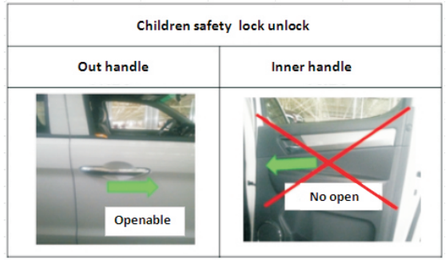
1.Open the door that you want to lock

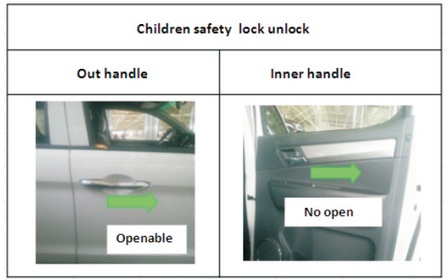
2.Find children safety lock operation rod near middle of door rim.

3.Slide operation rod to locked position.

Kind reminder

All rear doors has its locks.Both rear children safety locks must be manually turned on.





As children safety lock on,you need to open the rear door from outside.If you want to turn off children safety lock,turn operation rod to “unlock”position.





Open or close the engine hood

The hand of open and close the engine hood is at lown left part of dashboard.

Open instructions for opening or closing hook:

1.Pull backwar handle to unlock first lock of engine hood.

2.put your hand into inner side sdge of hood to poke left to unlock the second lock.

3.Pull up hood and prop up support rod to hold up hood.

4.Raising the hood a little bit to put support rod back to the original place and bucket it tightly,then put down hood slowly till it’s about 20cm high to let it free drop to be locked.Finally check if it’s locked tightly and repeat the above operation if not.



Warning

1.Check if the hood is locked tightly before driving otherwise it may be propped up to block view and cause accident during driving.

2.Insert prop rod completely into the hole in case of failing down to hur t people.

3.When the hood is propped up,do ,not drive the vehicle,it will block the view and may fall or damage.



Pull up tailgate open handle to unlock it and place it down slowly to horizontal position then the limiting drawbench will fix tailgate.

Raise the tailgate till buckle place then push it forcibly to lock the tailgate.



Attention

1.Make sure no hands or other body parts within the movement range of tailgate.

2.Do not let tailgate free drop from the highest point,which will cause big noise and shorten parts lifespan and possible injury accident.

3.Check if the tailgate is locked tightly after closing everytime.







Fuel charging mouth cap

The cap is at left side panel of cargo box,the opening handle is fixed at front left seat's floor.

Pull up handle to open the cap.Rotate the cap off by counter clockwise and fix it to fixing bracket.

After charging,take down the cap and rotate it by clockwise until a "ka-ka"sound and close mouth cover plate.

Attention

If the mouth cover plate is hard to open due to ice frozen around,do not pry it up,you can try to open it by knocking or pushing softly.It can use ice melting product or move the pickup to warm place.



Electrical window

The electrical window switches are at driver's side interior panel,the driver can control 4 door's window up and down.Besides,each door has its separate window switch.

Lift switch up to raise window and vice verse.

Kind reminder

1.The driver shall be responsible to remind other passengers to watch their hands for window rising.

2.Make sure all windows closed as leave the pickup.

Lock window

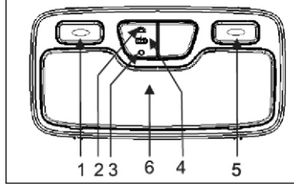
Locked button so that the other passengers can't control their window except the driver press it again to restore window separate control function.

Attention

The child can operate the electrical window and may get stuck by the window so lock the rear window when child is siting at rear.

Ⅳ.Exterior system instructions

Front ceiling light



1.Left reading light

2.ON switch

3.OFF switch

4.Door control switch position 5.Right reading switch

6.Light room Front dome light switch were: (1) Left and right reading light switch (2) gated switch

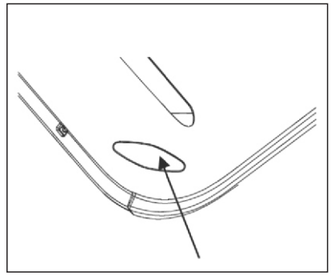
1.The left and right reading light can turn on or off separately

2.The door control switch can control front ceiling light at constant on,door control or Constant off,3 conditions.

At state 2 of left drawing for door control switch,front ceiling lights constant on.

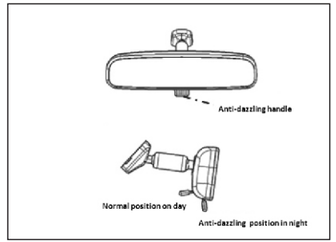
At state 3 of left drawing for door control switch,front ceiling lights constant off.

When door control switch is at state 4 of left drawing,the ceiling light gets on as unlocked,open door,pull out key and gets off automatically after 30s when door closed,When the pickup is locked or turn on ignition switch,the ceiling light goes off.



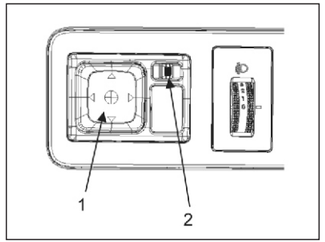
The door light is at interior side and down parts of door.

When open left/right front door,the door light gets on,when you close any one of them,the corresponding light gets off.



Manual anti-dazzling inner rear-view mirror

Please adjust the inner and outside rear-view mirror to the best view angle and keep mirror clean.For the inner mirror ,it just need to hold middle of mirror and adjust up-down,left-right to the best view.If it needs anti-dazzling in night driving,please adjust to anti dazzling position.



Electric out rear-view mirror adjustment switch

As ignition switch turned to ACC gear,turn switch 2 to left or right to choose the outside rear-view mirror to adjust,then press down direction arrow of switch 1 to adjust outside rear-view mirror direction.

Kind reminder

The control switch of outside rear view mirror is at the left side of wheel and on switch panel of dash

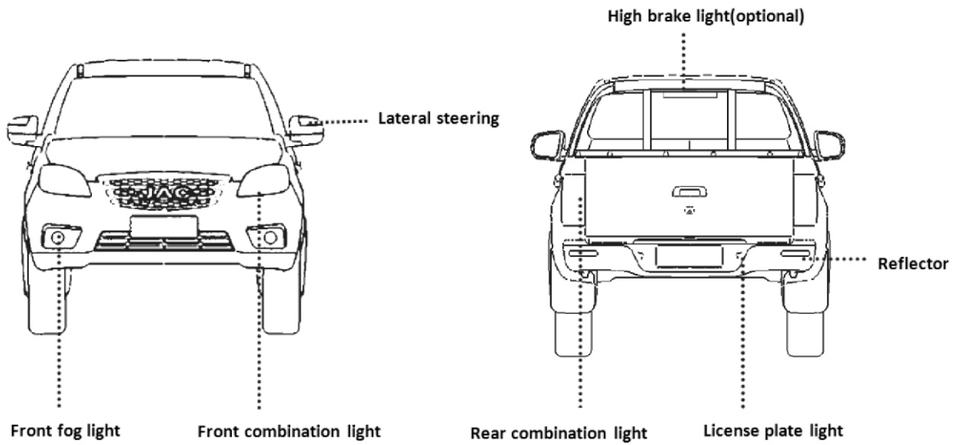
Attention

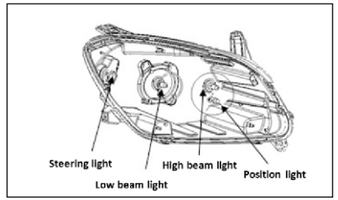
The poor rear view may cause accident and injury so it shall keeps rear view mirror clean and in proper position.

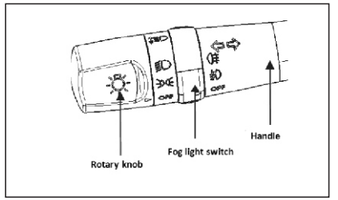
The poor maintenance may cause damage and do not scratch the ice at the surface of rear view mirror .do not move mirror forcibly as it's frezze by ice.

Do not use interior light for long time if engine is not on.which may cause battery power losing.

Overall exterioe lights position drawing







High beam light

In poor visability or light,please use high beam light to see long distance conditions,please switch to low beam light in crossing.

As ignition switch turned to ON gear,rotate counter-clockwise 2 gears to position and turn down handle from original place to light it on.

Based on 2 operation,turn up handle and release to realize overtaking lights fuction.

Position light

1)The position light is to show your vehicle clearance for front coming vehicle.

2)Rotate rotary knob counter clockwise by one gear to light on lamplet.

Low beam light

1)In night driving of good visibility (like roadlights in city),the low beam lights helps short distance illumination.

2)As ignition switch turned to ON gear and rotate counter clockwise by 2 gears to gear to light it on.

Steering light

The steering light is signifying your turning right or left.

As ignition switch turned to ON gear and turn the handle up and down meanwhile the indication ⇦⇨ light in instruments gets on.

Front combination light dismantlement

It consists of 1 high beam light/position light,2 low beam lights,2 front steering light.

1.Change high beam/position light steps:

a)Roll out plastic rear cover of low/high beam light

b)Take out high/low beam light bulb

c)Don't shake or rotate in dismantlement

2.Change low beam light steps:

a)Roll out counter clockwise real plastic cover of low beam light

b)Pull out connector with bulb

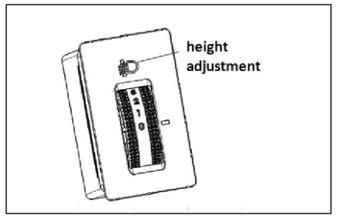
c)Take out buble carefully.

3.Change front steering light bulb steps:

a)Roll out counter clockwise bulb seat

b)Take out bulb carefully from seat

c)Don't shake or rotate during dismantlment.



High beam light height adjustment

6)It can adjust front light height,the adjusting switch is at the left side of wheel and on switch panel of dashboard.

7)It can adjust light height to match different vehicle pitch angle due to different loading capacity.As gears on,the light height goes down.

8)The ignitiong switch must be at ON gear then to adjust light height.

Attention

1)Do not expose rear cover or bulb seat into the air too long in case of dust,humidty or smoke contaminate them.It should replace the new bulb immediately and place rear cover and seat back.

2)The front light is semi-sealed type,please use replacable halogen bulb.It's better to take out the whole front light for replacing bulb but it also can be done from engine housing.

3)Do not tough glass shell and only can hold bulb seat.

4)Do not shake or rotate bulb.

5)After changing new front light,it must adjust the light , which can be done by JAC authorized service center.

Front fog light

1)Front fog light provides penetration light in poor visibility conditions (like foggy weather)to protect you and other passengers.

2)As ignitiong switch turned to ON gear ,turn rotary knob to 1st or 2nd gear,turn fog light rotary knob to front fog light,the indication light in istument gets on.

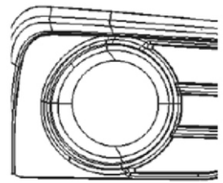
Change front fog light bulb:

1.Tke down front bumper

2.Roll out bulb seat counter clockwise

3.Take out bulb for seat

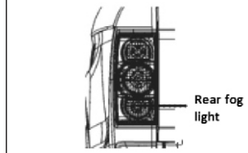
4.Change fog light bulb and put back bulb seat.



Rear fog light

In poor visibility,the rear fog light provides illumination for rear vehicle and pedestrian in case of traffic chaos.As ignition light turned ti ON gear,rotary knob at 1st or 2nd gear,fog light rotary knob at,rear fog light gets on as in instrument gent on.

Change rear fog light bulb



1.Take out rear combination light

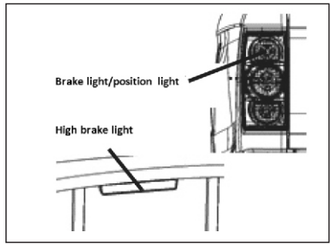
2.Rotate bulb seat counter clockwise to take out bulb

3.Take out rear fog light from seat

4.Change bulb and put back seat

Kind reminder

The fog light rotary knob will return to front fog light position automatically , rotate it again,it will close the automatic return.



Brake light

1)The brake light is to remind and warn rear driver and pedestrian front road condition.

2)The high brake light is double reminder and warning

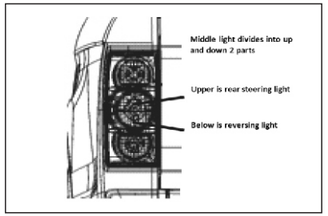
3)Step down brake pedal,the brake light get on during driving.

It's better step out of the car and know rear end road condition in caseof unnecessary collision or stuck into subgrade.

Attention

1. lease check if brake light works well before driving in order not to cause unnecessary accident.

2. he high brake light is the sealed LED illuminant,which can't be changed in normal way.If any problem or failure,please go to JAC authorized service center for help.



1) he reversing light is to remind rear driver and pedestrian your action.

2) he reversing light gets on when you engage into R gear.

Kind reminder

Please watch out rear road condition in case of unnecessary collision or stuck into soft subgrade

Rear steering light

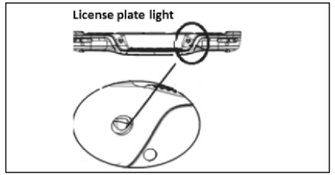
1) The rear steering light is to remind rear driver and pedestrian your steering direction.

2) As ignition light turned to ON gear,turn uo or down lights combination control handle to light it on and indication light gets on in instruments.

Kind remind

Recommend to turn on steering light 50~100m advance before you enter into curve,intersection or make turning so as to remind rear drivers and pedetrain of both side preventing from accident.

The rear combination lights consist of rear steering light,clearance/brake light,reversing light and fog light.



Change light bulb

1.take down rear combination light;

2.Roll out relative bulb seat counter clockwise,take down seat.

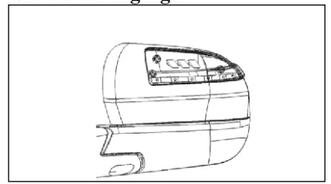
3.take out relative bulb from seat(rear learancet light/brake light/steering light bulb.

4.Change relative bulb(Reversing light/fog light bulb.)

License plate light

The license plate is illuminating your plate in night and turned on as any other light gets on.

Side steering light



1)The side steering light remind the lateral drivers or pedestrains of your driving direction.

2)As ignition switch turned to ON gear,turn up or down combination lights control handle to get it on with green arrow indication light in instrument.

3)The side steering light is integrated with exterior electrical rear view mirror.

4)The exterior rear-view mirror provides you rear view during driving.

Chapter Ⅳ chassis system instructions

Ⅰ.Steering system instructions

Steering clearance



Keep vehicle at straightline driving condition and tire still of no rotation,rotate wheel left and right until tires moving,then measure wheel outside backlash.

The standard backlash value shall be between 16-32mm.

If the vehicle is equipped with powerSteering,the backlash value shall be measured under engine on condition.

Steering wheel loosen

Check if it has steering tight,shaking and inclined-to-one-direction phenomenon,

If the clearance of parts steering system big,loosen or abnormal nosie happened, please go to JAC authorized service center to check steering mechanism.

Steering wheel height



Steeing wheel height

Check if wheel height fits your dricing habit.

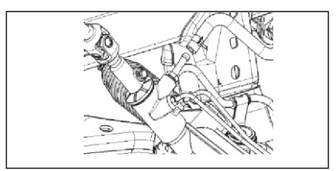
Adjustment:Loose lock handle ,push steering wheel to proper position by hands and then lock it tightly.

Fluid discharging

1.Prop up front axle off ground completely .

2.Take down elastic clamp that joint steering oil tube and oil outlet, pull off oil tube

3.After discharges the remaining fluid,start on engine in a short time and turn wheel to limitation left and right side less than 15s until it discharges the remaining fluid completely.



Fluid charging-Normal

1.Connect oil return tube and steering gear, fill specific steering fluid.

2.Fill steering fluid to the level between scale labels of oil pot then turn wheel to limitation of right and and left side, as fulid level goes down, repeat the above operation for 2~3 times.

3.Descend front tire to ground and start engine for few minutes and turn wheel right and lert.

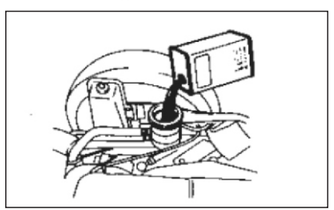
4.Check fluid level according to scale lable and fill again if necessary.

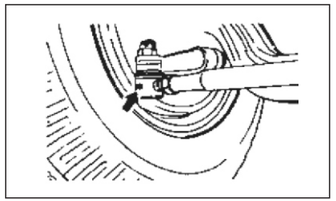
Fluid charging-Vacuum way

1.Fill steering fluid to the middle of scale labels..Keep the filling and descending at the same pace in order to not to mix air.

2..Descend front tires to the ground and start engine for idle running few minutes and turn wheel left and right.

3.Check fluid level according to scale lable and fill again if necessary.





Steering rod

Check if steering rod's ball head get loosened,if it has, please check it by JAC authorized service dealer immediately.

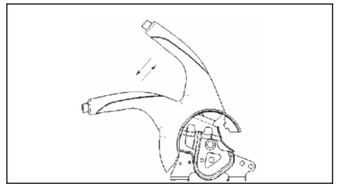
Abnormal noise of steering system

Check if it has abnormal noise of steering system during driving or parked, if it's unable to identify the reason,please go to the authorized service dealer for check immediately.

Normally,the abnormal noise is caused by parts loosen, air into hydraulic system, less steering fluid and other parts interference.

Steering system technical specification

Steering gear	Pinion and rack hydraulic steering gear
Line angle drive ratio	42.7
Steering fluid model	ATF Ⅲ automatic gear fluid
Steering fluid volume(L)	1.2
Max working pressure(Mpa)	10
Working flow volume(L/min)	7.5



Brake system instruction

parking handle

Check if the stroke of park brake handle is normal and make sure the vehicle can park at slop by only using parking brake

Parking brake handle instruction

1.Pull up parking brake handle, it works and release the parking brake is off.

2.As the parking indication light gets on, it means parking brake is in working.

Parking brake off instructions

Before driving, it needs to end parking brake as

Raise up handle gentle

Press down button at the top

Release parking brake handle.

Parking at slope

For manual transmission, at uphill slop,engage into 1st gear and pull up handle, at downhill slope, engage into R gear and pull up handle.

Parking when engine running

In sealed or poor-ventilation environment parking, do not run engine for a long time because the toxic gas may do harm to your health even life in danger.

Parking place

Do not park at inflammable place like hay or dead leaves because the temper ature of exhausts is high and easy for fire accident.

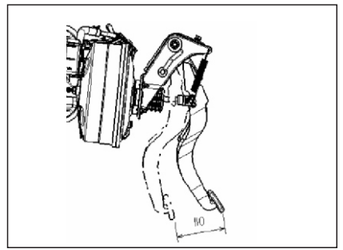
When leaving the pickup

Pull out ignition key, pull up parking brake handle,lock all doors and park at illuminant place as much as possible when you leave the vehile.

Park breke handle stroke

The normal parking brake handle stroke:7~10 tooth(One tooth equals with one sound of"'ke-ta" as you pull up handle)

If the stroke is not in the normal range, please go to the authorized service dealer for adjustment..



Brake pedal and booster

1.Check if pedal can work normally and confirm it has reserved stroke as step down the pedal completely.Adjustment standard value:Free stroke:3-8mm; stroke:110mm.

2.Check if vacuum booster works well and make sure it has clearance between floor.

Brake pedal height adjustment methods

1.Take down pin shaft that connects pedal arm and handspike of booster.

2.Rotate adjusting bolt of U clip to required position.

3.Install on pin shaft and lock pin that connect pedal and booster.

Driving brake system

This pickup is equipped with dual-circuit brake system, when one circuit is invalid, the other one can brake the vehicle to stop but this requires more force to step down the pedal and it takes a longer brake distance. If an special condition, please stop the vehicle at a safety place and waiting for help.

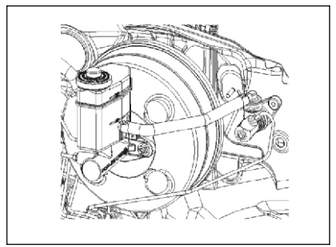
As engine is off ,the boosting effect willdisappear after steping down pedals 1-2 times. Then you nees to step harder than normal, which is important to notice, especially when your vehicle is being towed.

Vacuum booster

The vacuum booster is using acuum pump of engine to enhance brake force. If it turns off engine during driving, the booster will lost vacuum power and decrease brake efficiency and increase brake distance substantially. Prohit sliding as engine off.

Brake pedal operation attentions

In order to brake stablely, it should step down pedal even . If it turns off engine during driving, the booster will lose vacuum power then it needs more force to step down padel to brake.



Brake oil-storage pot and brake fluid

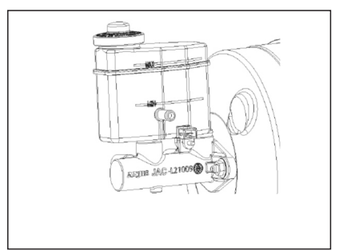
Brake and clutch fluid level

The fluid storage pot is fixed at frontal of left side of dashboard, common shared with clutch fluid pot.

Check if the fluid level reaches requested volume,if lower than MIN scratch, please fill up with recommended brake fluid Dot3/DOT4 butno higher than MAX scratch.

Warning

The brake fluid is hazardous and corrosive, if it has an accidental contact, please use clean water and neutral sopa



water to wash relative part for several times, if mistakenly intake, please go to hospital immediately for medical help.

If use mineral comprehensive brake fluid, it will cause irreversible damage to rubber seal ring of brake system, if the stoage pot has a mark on its surface.

Attention

The brake fluid will absorb moisture from air so if the wehicle is used in humid area most time ,

Please replace brake fluid more frequent than the times requested in operational manual.

ABS System

ABS system can shorten your brake distance and time, this device can only help maintain steering direction during brake. You need to keep safe distance with other vehicle as always.

ABS system can't prevent from sliding by sudden steering such as make a turn quickly or change line suddenly. No matter road and weather conditions, you should drive carefully and at a safe speed.

ABS system can't prevent stability decrease. Steer moderately during sudden brake. The sudden or big steering may cause you lose control of your vehicle and crash out of road. On soft or ruggy road, the vehicle with ABS takes longer brake distance than the one without ABS, so you need to reduce speed and keep safe distance with other vehicle.ABS system has self-diagnosis function, if the ABS indiction lights get on in instruments, it means ABS is invalid when the brake system is still working with normal brake effect. But you should go the authorized service center for service.

If the ABS and brake system indiction lights get on at the same time, and hand brake has been released completely, it means the brake force distribution system may in malfunction, it shoule go to the authorized service center for serviceASAP.

ABS will help prevent from locking or sliding in sudden brake to maintain steering control. If the front tires get sliding, you will lose control of steering that means even you turn your wheel, it's still heading forward.ABS system wil lprevent from locking and maintain steering control ABS system will distribute brake force according to loading situation. Do not step down brake pedal pulsely, otherwise it will make ABS invalid. It should keep a steady stepping-down force on brake pedal in order to make ABS function in turning wheel to avoid danger.

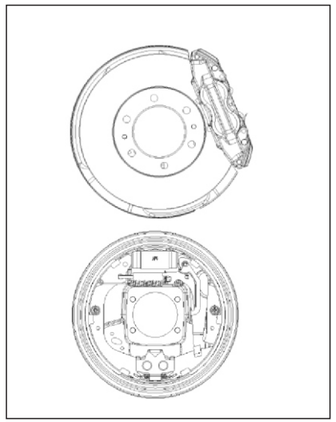
Attention

If it's equipped with ABS, you should keep enough safe distance with front vehicle.

As ABS starts function, the brake pedal has a continuous rebound.

For vehicle with ABS , during sudden brake it must step down the pedal without release.

Do not knock tire speed sensor otherwise it's easy to cause demagnetization of sensor which affects ABS system normal function.



Brake

Front tire is disc brake, rear tires is drum brake.

Check if the vehicle has odd-track phenomenon during braking.

Rear brake clearance adjustment sheath. The brake clearance normally is 0.3-0.5mm.

After the brake is wet by dipping in water or in rainy days, it shall start up and drive slowly together with several times of soft soft step-down of pedal to dry it.

Downhill driving

For downhill driving, it should engage into low gear by using engine brake to reduce speed, avoid with frequent brake and heat recess-ion(brake effect goes down and brake distance gets longer).Aviod to cool down brake by cold water. Warning

Do not use severely abrased brake lining, which will reduce brake efficiency and cause accident.

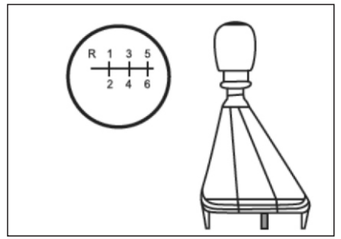
It should go to JAC authorized service dealer regularly to check and replace brake lining and brake disc/drum.

Brake system technical specification

Type		Dual-circuit,vacuum boosting, hydraulic brake
Parking		Mechanical cable applied with rear brake
Brake type	Front	Disc
	Rear	Drum
Brake fluid type		DOC-3/DOC-4 grade synthetic fluid
Brake fluid filling volume		0.5L within scratches

Braking frictional couple rational use range

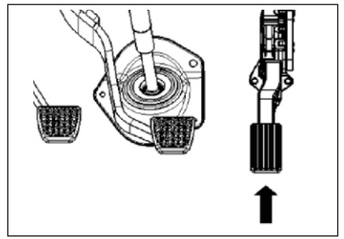
Front brake disc standard thickness (mm)	28
Front brake disc MIN thickness (mm)	26
Rear brake drum standard inner diameter (mm)	295
Rear brake drum MIN inner diameter (mm)	297
Front brake shoe standard thickness (mm)	11.2
Front brake shoe MIN thickness (mm)	2
Rear brake shoe standard thickness (mm)	6.3
Rear brake shoe standard thickness (mm)	2



Transmission system instruction

T/M handle

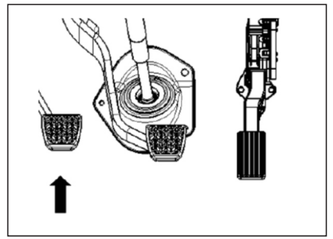
It should step down clutch pedal completely before changing gear. The gears layout is at the top of handal. The reversing gear indication light will get on as it engages into Rgear as ignition switch turned to ON position. Before engaging into R gear, the vehicle must stop completely.



Reversing operation:First lift up reversing stop block, then engage into reversing gear, at last release block.

Acceleration pedal

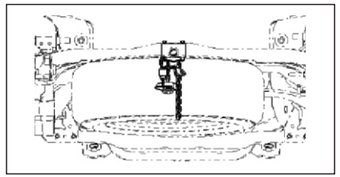
Please operate acceleration pedal properly and evenly to avoid uneccessary fuel consumption.



Clutch pedal

To detach clutch it must step down clutch pedal completely, otherwise it will cause gears crash of transmissiom, rapidly abrasion of clutch friction plate and gears broken.

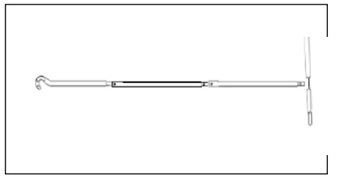
Do not put foot on clutch pedal when you don't use of clutch.



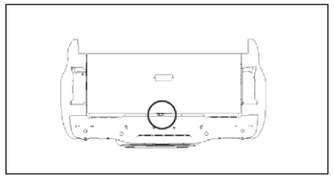
Spare tire hanger

The spare tire is fixed at the rear end of frame by tray and beam. If you want to descend

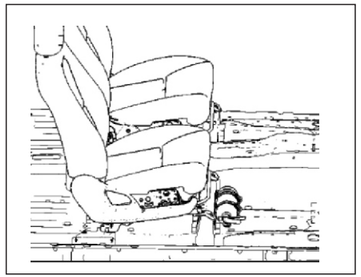
the spare tire, use the special rocking bar from accessory tools to operate rolling arm.



The accessory tools is put in storage box below of rear seats, taking out nut wrench and up-down rod and rolling arm.

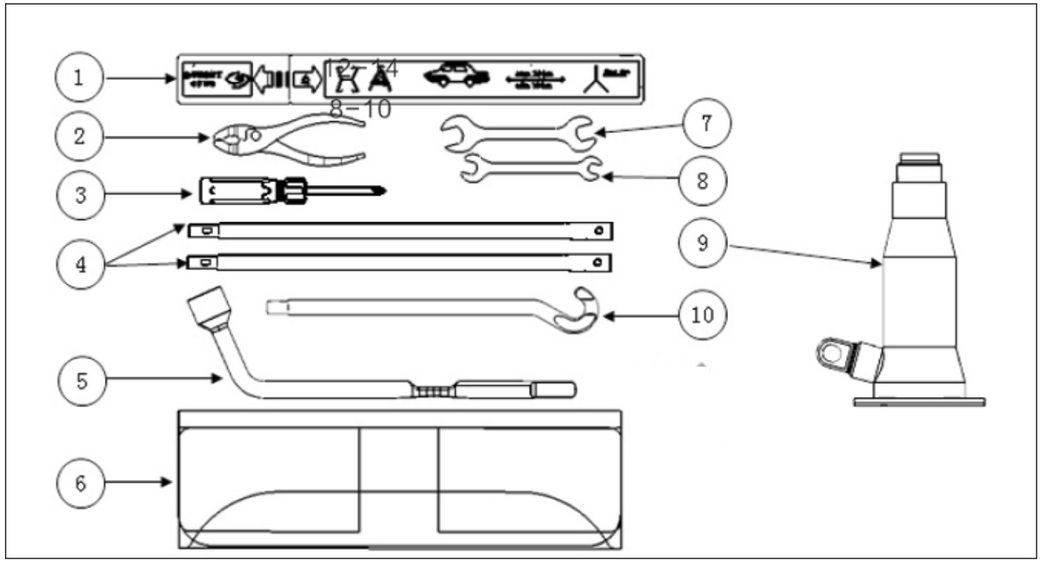


Insert rolling arm exact into T type mouth of capstan and rotate counter clockwise to descend spare tire, as it's complete down, take out tray andspare tire carefully.



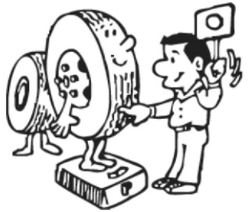
The fire extinguisher is optional and check it regularly if it's equipped according to local regulation.

SN	Name	Model	Qty
1	Triangle warning plate		1
2	Sharp-nose pliers		1
3	Screw driver		1
4	Up-down rod		2
5	Tire nut wrench		1
6	Tools bag		1
7	Spanner	12-14	1
8	Spanner	8-10	1
9	Jake		1
10	Rolling arm		1

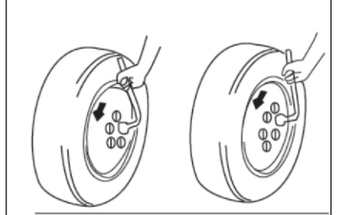


Chapter Ⅴ Attention matters for driving

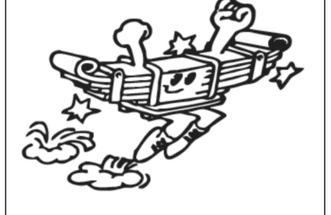
Ⅰ.safety check before driving



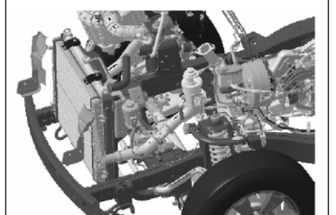
1. if it has abrasion or air leakage.



2.Check if tires get loosened.



3.Check if leaf spring and ear gets damage.



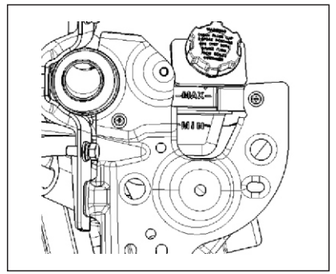
4.Check if it has leakage of engine oil, anti-frozen fluid, fuel, brake fluid.



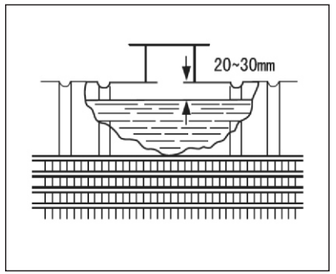
5.Checl if brake reaction time and effect normal as step down pedal



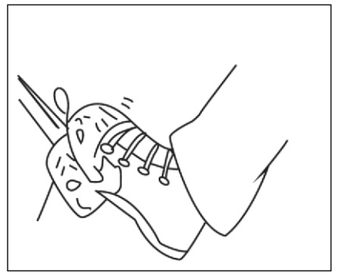
6.Check if the free stroke and height of clutch is normal, if it can work well.



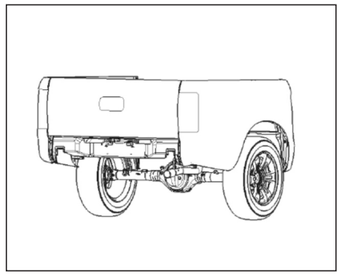
7.Check if the clutch fluid and brake fluid has enough volume in pot.



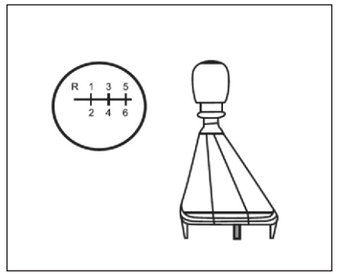
8.Check if the coolant in radiator and pot has enough volum, if the coolant level is lower L mark, please fill in coolant but not higher than F mark. Check the sealingness of pressure cover of filling mouth.



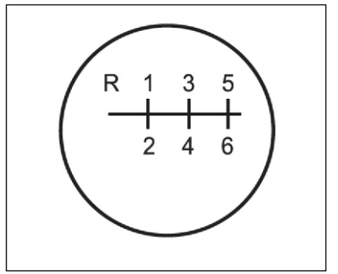
9.Check if the free stroke and height of brake pedal is normal, if it can work well.



10.Check if has abnormal noise of engine, if the exhaust gas color is normal



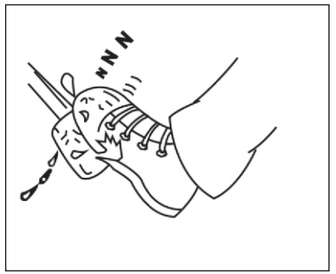
1.Let transmission handle be neutral gear position.



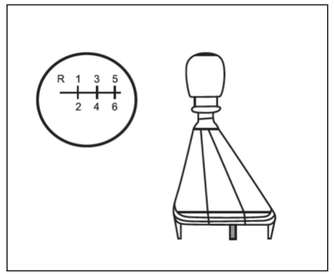
2.Put handle in neutral gear as parked and gears layout drawing



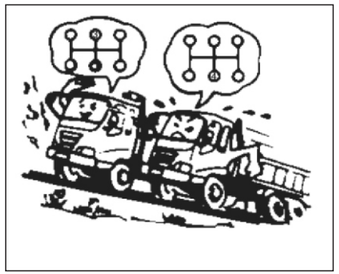
3.Avoid sudden acceleration and brake as much as possible



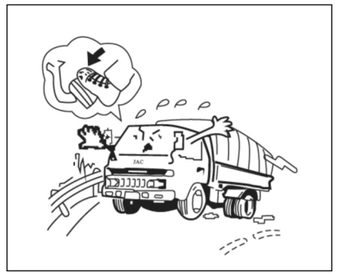
4.Do not lay foot on clutch pedal during driving which may cause clutch friction plate pre-mature abration due to partial detached state.



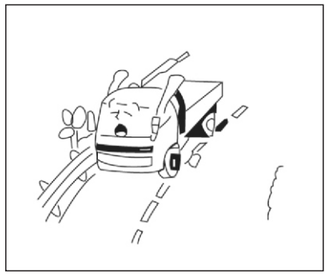
5.The vehicle must completely stopped before emgaging into Rgear or 1st geat.



6.Dring at uphill road, in order not to cause engine overloaded, please engage into low gears before engine decelaration.



7.Dring at downhill road,engage into low gears to gain engine brake effect.

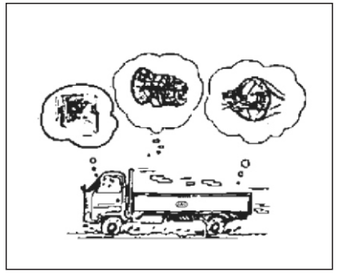


8.When driving cross shallow pond or pool, do not get warter into exhaust pipe to protect engine, after crossing it, check if the gears oil of rear axle and transmission is mixed into water, if yes, discharge the oil and recharge regulated model gears oil.

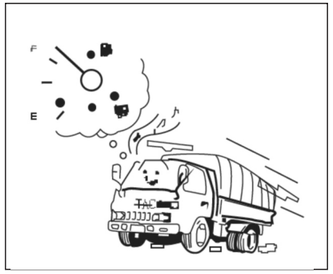
III. **Eco-driving**



9.In heavy rain driving or crossing over shallow pong, please be more careful since the braking force will decreased as the brake get damped.



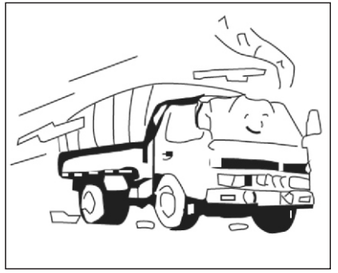
10.Do not turn off engine during driving which will cause brake force decreased for losing vacuum boosting forcw. It's extremely dangerous for turning ignition switch to LOCK position during driving for the wheel will be locked and can'tcontrol vehicle.



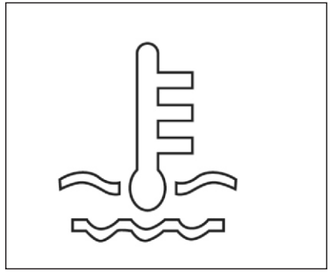
1.Driving at over high speed or engaged in high gear but drive at low speed,which will cause over fuel consumption.



2.Engage into high gear and release clutch pedal slowly in acceleration



3.Engaged into direct gear or overtaking gear,maintain a certain speed as much as possible.



4.Make sure coolant temperature within normal range,if it's getting high and sounding alarm,please stop the vehicle immediately and check,otherwise,it may cause fuel consumption increase and engine burnedin worst scenario.

Warning

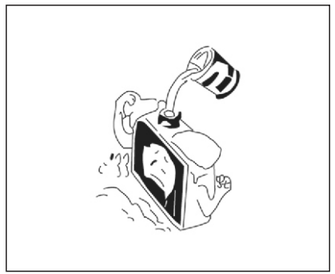
When the engine and radiator is still hot,do not open radiator cap,otherwise you may get burned by splashing hot fluid and gas.

Do not spill engine coolant onto exhaust system and engine belt.

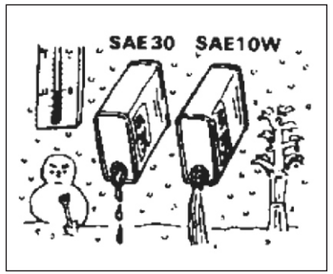
Ⅳ.Vehicle maintenance in winter



5.The insufficient air-pressure tires will increase fuel consumption.



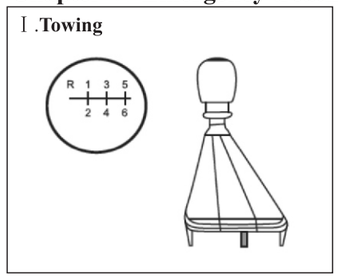
Use anti-frozen fluid



Make sure use the specific model of anti-frozen fluid appointed by JAC.Engine oil Choose the right model of engine oil matching with environment temperature as its adhesive degree gets up as temperature goes higher.

Chapter Ⅵ Emergency treatment

Ⅰ.Towing

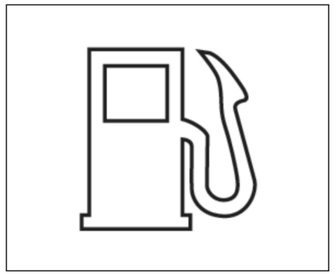


Towing attention matters

1.Enage into neutral gear if transmission is still in good condition.



2. If the transmission is down, it needs to dismantle transmission shaft, then connect towing car and broken vehicle by towing cable and driving at less than 40km/h per hour.



Ⅱ. Air and water discharging of fuel system

If the fuel is run out, it may get air inside fuel system, which will block fuel flowing into engine. In order to avoid this problem, it must discharging air for fuel system.

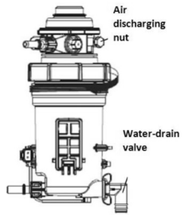
For diesel engine, loosen high pressure fuel tube nuts of 4 cylinders, power engine by starter for running about 10s, then tighten the nuts again.

1.Press and release up and down of manual fuel pump handle on fuel filter for several times to induce fuel mixed with air into injection pump.

2 .After air discharging of fuel system being finished, start engine by turn on ignition switch.

3.If engine fails to start within 10s,repeat 1 and 2 actions.

Water draining of diesel filter



If the fuel filter indication light gets on, it must follow below instructions to drain water

1.Pull over at a safe place

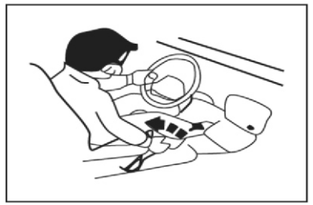
2.Screw off air discharging nut counter clockwise and open water drain valve, then press down manual pump on the filter until it drains water of filter completely (0.1L) as fuel flows out.

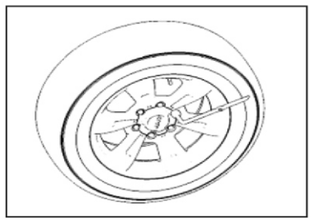
3.After drain water, screw water-drain valve tightly clockwise, the press down manual pump until it has fuel flew out from air discharging nut and screw the nut tightly clockwise.

4.After starting engine, check if fuel flows out from water-drain valve ,meanwhile check if the filter indication light gets off.

III. **Deflated tire treatment**

Prop up the vehicle to change flat tire





Preparation

1.Stop vehicle at an even ground and pull tight hand brake

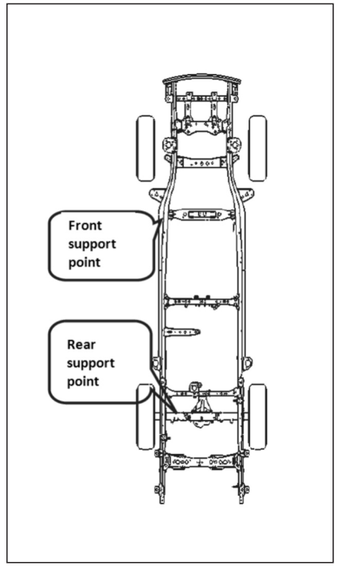
2.Engage into R gear

3.Press down danger warning lights button

4.Stop the tires of diagonal position by blocker.

5.Screw nuts loosen but not off

6.Put down jack under regulated spots



Put jack under the spots shown by left drawing

Attention

Put jack on flat and solid ground as much as possible and be in good match with support spot, then use it.

Take down wheel cover and screw each nut 1-2 round counter clockwise by diagonal direction, then take off all nuts when tire is off ground and then take down tire carefully.

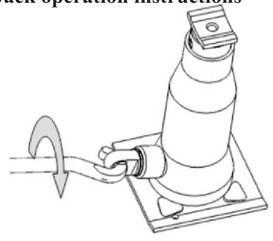


Rear shaft prop-up position

Warning

As the vehicle is propped up by jack, no entry of vehicle beneath and do not allow to start engine or leave passengers inside.

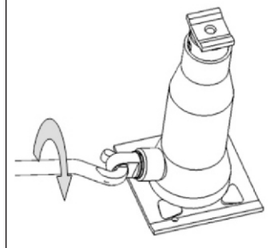
Jack operation instructions



The jack is put at beneath of rear seat.

The accessory tools are put in the storage box beneath of rear seat, taking out tire nuts wrench and 2 up-down rods and 1 rocking handle.

Combine the above tools together shown as drawing.



Prop up

If the support point of vehicle is higher than jack's head, rotate as the drawing shown to extend the height.

Rotate tire nut wrench shown as the drawing.

Put-down

After finishing spare tire, rotate by the opposite direction with prop-up to put down the vehicle.

Warning

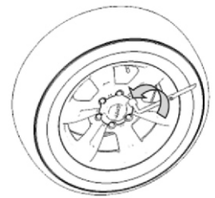
As the vehicle is propped up by jack, no entry of vehicle beneath and do not allow to start engine or leave passengers inside.

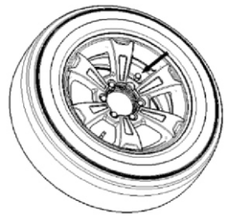
Attention

Put jack on flat and solid ground as much as possible and be in good match with support spot, then use it.

Take down wheel cover and screw each nut 1-2 round counter clockwise by diagonal direction, then take off all nuts when tire is off ground and then take down tire carefully.

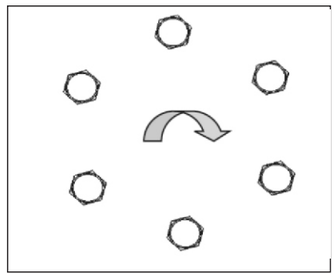
Change tire





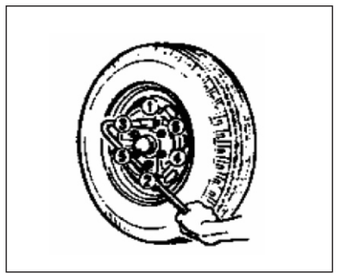
Attention

The wheel cover is made of plastic, it should be more careful in prying-out. It may hurt fingers as dismantle it manually.



3. Prop up front tire and screw off tire nuts and take down tire, then install spare tire.

4. Install and screw tightly tire nuts and descend tire onto ground.



5.Tighten tire nuts diagonally by tire wrench shown as above drawing, The tighten torque:

Front tire:100-120Nm

Rear tire:100-120Nm

6.Align wheel cover with tire and pad its rim carefully to fix tightly.

Chapter Ⅶ Maintenance and service

1.Maintenance and service periodical table(Ⅰ:Check and change or service needed A:Adjust R:Replace or adjust T:Tighten as requested torque L:Lubricating)

Period:× 1000km（referred to reading in odometer）or month,s first-come-prevail	1	3	6	9	12	15	18	21	24	27	30	33	36
	-	1	2	3	4	5	6	7	8	9	10	11	12
Engine -Engine oil													
Engine oil filter core	R	-	-	-	R	-	-	-	R	-	-	-	R
Air filter core	-	I	I	R	I	I	R	I	I	R	I	I	R
Fuel filter	-	-	I	-	I	-	R	-	I	-	I	-	R
Ilding or acceleration function	-	I	I	I	I	I	I	I	I	I	I	I	I
Engine oil leakage or pollution	-	I	I	I	I	I	I	I	I	I	I	I	I
Fuel leakage	I	I	I	I	I	I	I	I	I	I	I	I	I
Valve clearance	A	-	-	-	-	-	-	-	-	-	-	-	A
Fuel pump function	-	-	-	-	-	-	-	-	-	-	-	-	I
Water leakage of coiling system	-	I	I	I	I	I	I	I	I	I	I	I	I
Exhaust pipe and its parts' damage and looseness													

Period:× 1000km（ referred to reading in odometer）or month,s first-come-prevail	1	3	6	9	12	15	18	21	24	27	27	33	36
	-	1	2	3	4	5	6	7	8	9	9	11	12
Clutch													
Clutch fluid,brake fluid	-	-	-	-	-	-	-	-	-	-	-	-	R
Clutch function	-	I	I	I	I	I	I	I	I	I	I	I	I
Clutch pedal stroke and free stroke	-	I	I	I	I	I	I	I	I	I	I	I	I
Transmission													
Transmission oil	R	-	-	-	-	-	-	-	R	-	-	-	-
Oil leakage	I	I	I	I	I	I	I	I	I	I	I	I	I
Loose of gears control mechanism	-	-	-	-	-	-	-	-	-	-	-	-	I
Gears control mechanism	-	L	L	L	L	L	L	L	L	L	L	L	L
Transmission shaft													
Universal joint and sliding hub	-	-	-	-	-	-	L	-	-	-	-	-	L
Loose of connective parts	-	-	-	I	-	-	I	-	-	I	I	-	I
Excessive abrasion of spline	-	-	-	-	-	-	-	-	-	-	-	-	I

Period:× 1000km（ referred to reading in odometer）or month,s first-come-prevail	1	3	6	9	12	15	18	21	24	27	30	33	36
	-	1	2	3	4	5	6	7	8	9	10	11	12
Rear axle:													
Differential oil	R	-	-	-	-	-	-	-	R	-	-	-	-
Oil leakage	I	I	I	I	I	I	I	I	I	I	I	I	I
Deformation or damage of semiaxis of rear axle	-	-	-	-	-	-	-	-	-	-	-	-	I
Deformation or damage of rear axle shell	-	-	-	-	-	-	-	-	-	-	-	-	I
Front axle:													
Deformation or damage of front axle	-	-	-	-	-	-	-	-	-	-	-	-	I
Steering system:													
Steering gears oil	-	R	-	-	-	I-	-		-I	-	-	-	I
Oil leakage of steering system	-	I	I	I	I	I	I	I	I	I	I	I	I
Loose or damage of steering system	-	-	-	I	-	-	I	-	-	I	-	-	I
Loose of accessories of knuckle and front axle	-	-	-	I	-	-	I	-	-	I	-	-	I
Backlash of wheel	-	I	I	I	I	I	I	I	I	I	I	I	I

Period:× 1000km（ referred to reading in odometer）or month,s first-come-prevail	1	3	6	9	12	15	18	21	24	27	30	33	36
	-	1	2	3	4	5	6	7	8	9	10	11	12
Wheel function	–	I	I	I	I	I	I	I	I	I	I	I	I
Steering mechanism rods	–	L	L	L	L	L	L	L	L	L	L	L	L
Big clearance of bearing	–	-	-	-	-	-	-	-	-	-	-	-	I
Steering system:													
Loose or damage of steering mechanism	–	–	–	–	–	–	–	–	–	–	–	–	I
Left and right steering radius	–	–	–	–	–	–	–	–	–	–	–	–	I
Front tire alignment	–	–	–	–	–	–	–	–	–	–	–	–	I
Brake system:													
Brake fluid and clutch fluid	–	–	–	–	–	–	–	–	–	–	–	–	R
Oil leakage of brake system	–	I	I	I	I	I	I	I	I	I	I	I	I
Master brake function	–	I	I	I	I	I	I	I	I	I	I	I	I
Brake fluid and clutch fluid	–	–	–	–	–	–	–	–	–	–	–	–	R
Oil leakage of brake system	–	I	I	I	I	I	I	I	I	I	I	I	I

Period:× 1000km（ referred to reading in odometer）or month,s first-come-prevail	1	3	6	9	12	15	18	21	24	27	30	33	36
	-	1	2	3	4	5	6	7	8	9	10	11	12
Master brake function	–	I	I	I	I	I	I	I	I	I	I	I	I
Clearance of friction liner	–	I	I	I	I	I	I	I	I	I	I	I	I
Abrasion of friction liner and brake drum	–	-	-	I	-	-	I	-	-	I	-	-	I
Brake padel stroke and free stroke	I	I	I	I	I	I	I	I	I	I	I	I	I
Pipes and tubes asbrasion,connection parts loose	–	I	I	I	I	I	I	I	I	I	I	I	I
Parking brake :													
Parking brake cable	–	I	I	I	I	I	I	I	I	I	I	I	I
Parking brake function	–	I	I	I	I	I	I	I	I	I	I	I	I
Parking brake handle stroke	–	I	I	I	I	I	I	I	I	I	I	I	I
Abrasion and damage of friction liners	–	-	-	-	-	-	-	-	-	-	-	-	I
Abrasion and damage of brake drum	–	-	-	-	-	-	-	-	-	-	-	-	I
Abrasion and damage of ratchet	–	-	-	-	-	-	-	-	-	-	-	-	I

Period: × 1000km（ referred to reading in odometer）or month,s first-come-prevail	1	3	6	9	12	15	18	21	24	27	30	33	36
	-	1	2	3	4	5	6	7	8	9	10	11	12
Suspension :													
Damage of steel spring	_	I	I	I	I	I	I	I	I	I	I	I	I
Loose and damage of installed parts	_	I	I	I	I	I	I	I	I	I	I	I	I
Oil leaksge of shock absorber	_	-	-	I	-	-	I	-	-	I	-	-	I
Action imbalance of steel spring due to weakened	_	-	-	-	-	-	-	-	-	-	-	-	I
Tirs:													
knuckle	T	T	T	T	T	TI	T	T	T	T	T	T	T
Damage of wheel disc	-	I	I	I	I	I	I	I	I	I	I	I	I
Wheel hub bearing's lubrication	-	-	-	-	-	-	R	-	-	-	-	-	R
Tire air-charging pressure and damage	-	I	I	I	I	I	I	I	I	I	I	I	I
Tires position change	-	-	-	R	-	-	R	-	-	R	-	-	R
Loose of front wheel hub's bearing	-	-	-	I	-	-	I	-	-	I	-	-	I
Loose of rear wheel hub's bearing	-	-	-	-	-	-	I	-	-	-	-	-	I

Ⅱ. Maintenance and service during severe driving conditions

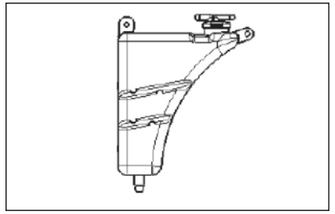
a. Frequent round-trips of short distance b. Driving at ruggy road c. Driving at dusty road

d. Driving in frost weather e. Driving in slat contained in air environment.

Items	**Period**	**Condition**					
		1	2	3	4	5	1+4
Engine oil	Change by per each 1500km			√			√
Filter core of engine oil	Change by per each 1600km			√			√
Exhaust pipe and parts	Change by per each 4500km	√	√		√	√	
Air filter core	Change by per each 1800km			√			
Loose and damage of steering system	Change by per each 4500km		√				
Lubrication grease of transmission and differention	Change by per each 9000km		√				
transmission and differention oil	Change by per each 9000km		√				
Brake friction liner and drum	Change by per each 4500km	√	√	√			

III. Maintenance knowledge

Antifreeze liquid level



Check antifreeze volume, if necessary, fill antifreeze liquid into radiator's pot. If the level is lower than L of the pot ,it shall check if it has leakage of radiator or cooling system, then fill antifreeze liquid up to level.

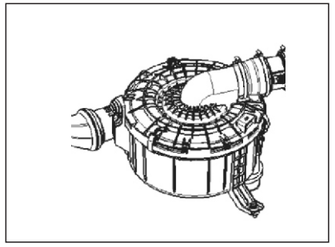
1.Please use the specific antifreeze liquid designated by JAC in frost weather.

2.Check antifreeze liquid level as engine cooled down

3.Don't take down water-filling mouth cap of radiator if not necessary

4. The antifreeze liquid level can not be higher than F scratch as in filling.

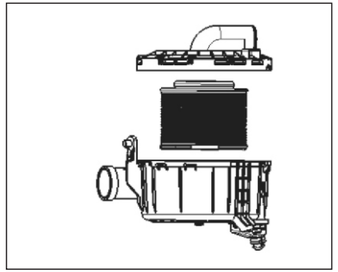
Regular maintenance and service



Air filter

If the core of air filter has been blocked, it will not only decrease output power of engine but also increase fuel consumption and with black exhaust smoke, therefore, please follow below instructions to do air filter maintenance.

Please use the authentic JAC air filter core part for the change.

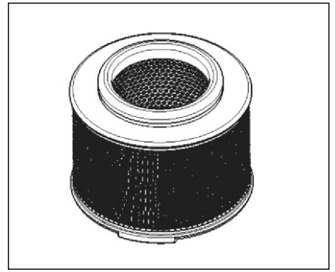


Filter core dismantlement(at front right of engine house)

Open filter cover's buckles to take out core

Air filter shell and cover cleaning

Wipe clean of air filter shell and top &bottom covers.

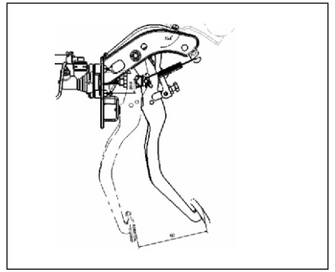


Filter core cleaning

If the core is dirty but at dry condition, use compressed air to blow out dust and the pressure of compressed air shall be less than 7kg/cm^2.

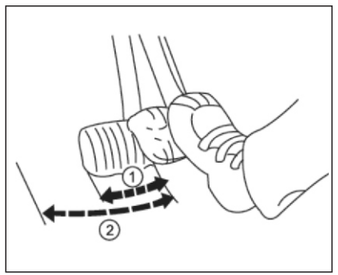
Clutch pedal adjustment

1.Loosen lock nut and screw blo-ck's bolt, adjust clutch pedal's height to the regulated valve. Tighten lock nut.



2.Loosen lock nut of master pump, rotate push rod to adjust its length to make free stroke of clutch pedal meet regulated valve 10mm+5mm (No need to conduct this operation for vehicle equipped with servo mechanism).Tighten locknut.

3.Adjust clutch switch make its contact terminal touch with bracket of pedal of non-working condition and make sure the clearance between sensor's metal end and pedal is around 1-1.5mm.

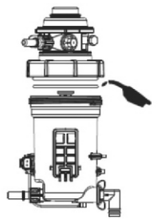


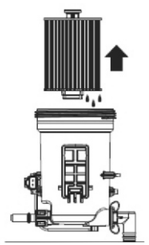
Clutch pedal free stroke and height standard value

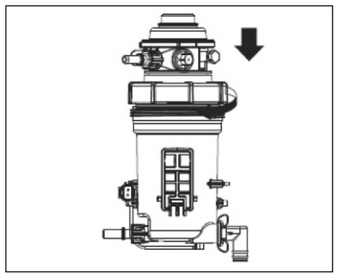
(1).Free stroke:5-15mm

(2).Height: around 165mm

Fuel filter







1. Loosen air-release nut and water-drain valve until it comes out of fluid from water-drain valve.

2. Loosen round ring and separate manual pump from down shell, making sure all fluid drained and matching face clean of manual pump and shell, the filter can be fixed to the matching face tightly.

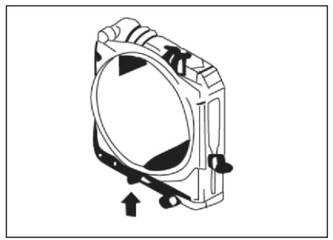
3. Pull out core from bottom shell and replace with the new one and push to the position. Do not pry up shell.

4. After replacement, make sure the cleanness of sealing face of shell and O ring, lubricate the ring by clean fuel or P80, tighten the ring manually with no tools involved.

5. Press down the button of manual pump until it comes out of fuel from air-release nut, then tighten the nut by 1.5Nm torque.

6. After air discharging of fuel filter finished, turn on engine.

7. If the engine fails to start within 10s, it shall repeat the above operation.



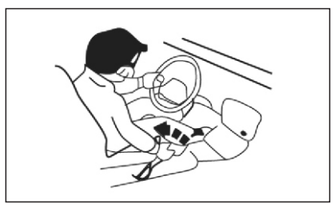
Antifreeze fluid of engine

For changing antifreeze fluid, it needs to loosen the drain valve of radiator and cylinder block until it drains out water of cooling system.

He cooling system of engine should be washed at least one time per year to sustain the best cooling effects.JAC recommends antifreeze fluid without any antirust degent and other additive.

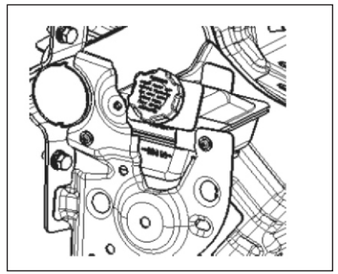
Antifreeze fluid model

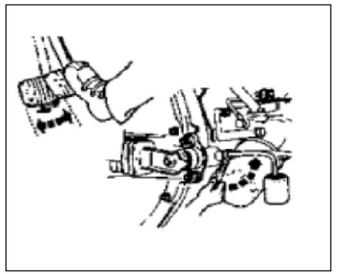
Environment temperature	Antifreeze fluid model
Above -25℃	-25
−25~ -30℃	-30
−30~ -35℃	-35
−35~ -40℃	-40
−40~ -45℃	-45
−45~ -50℃	-50

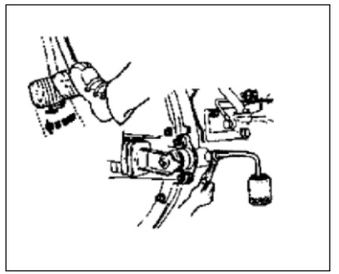


Clutch hydraulic circuit exhaust

If the air get mixed into clutch hydraulic circuit, it will cause incomplete separation of clutch, which may cause clutch fluid run out due to unnoticed of the less volume of fluid storage pot of clutch. It must conduct exhaust operation during dismantling hydraulic circuit by 2 men cooperation.







Follow below steps to exhaust

1.Pull up parking brake handle tightly.

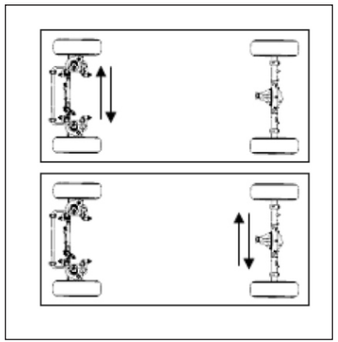
2.Check the fluid volume of clutch pot, fill some if needed. Open the pot cover during exhaust.

3.take down rubber cover from bleed screw and wipe clean the bleed screw. Put one end of vinyl hose into transparent vessel.

4.Step down clutch pedal several tomes and stay the pressed-down.

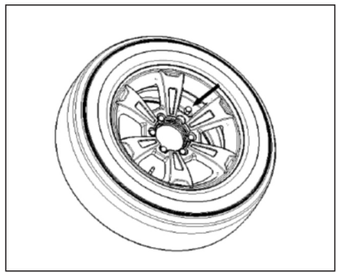
5.Loosen air release nut and drains clutch fluid with bubbles into vessel and tighten bleed bolt immediately.

6.Release clutch slowly and repeat the above operations until the bubbles disappeared in clutch fluid from inner pump. Make sure the fluid volume in storage pot of clutch within the regulated level during bleeding, after that pu on rubber cover again.



Tires switch

In order to keep an even abrasion of tires and prolong tires life, please switch the front and rear tire according to the above drawing.



Tires air charging pressure

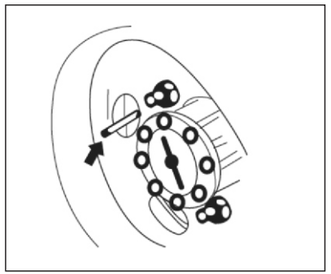
Two kinds of tires options:

245/65R17 107T and 235/65R17 104T

Standard tire pressure of front tires:220kPa

Standard tire pressure of rear tires:250kPa

Check tire pressure or get maintenance at tire in cooled down condition(vehicle stopped for more than 3 hours or driving less than 1.6km.



Keep tires pressure at regulated value.

If it needs to measure inner tire pressure of double rear tires model, please use the ordinary air nozzle spanner for assistance.

Recommended lubrication grease and diesel brands & models

In order to keep your vehicle in a good condition and longer service life, please choose the lubrication grease and Fuel recommended below table.

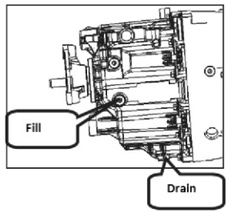
For diesel models(HFC4DA1-2C engine)

Part	Recommended grease and fuel	Volume
Engine oil	Diesel engine oil, above CH-4 grade	5.78L
Transmission	GL-4/75W-90	2.2L
Rear axle	GL-5 heavy load vehicle gears oil Winter:85W-90(above -15℃) 80W-90 or 75w-90(above-30℃)	2.6L
Power steering gear	Automatic transmission oil ATF-Ⅲ	Based on Actual required volume
Brake fluid pot	DOT4/DOT3	
Clutch fluid pot	DOT4/DOT3	
Tires bearing	Multi-purpose grease or lithium tire bearing grease	
Clutch shifting fork	No 2or 3 general lithium grease	
Central support of transmission shaft	No 2or 3 general lithium grease	
Sliding sleeve of transmission shaft	No 2or 3 general lithium grease	
Cooling system of engine	-45℃(the specific model designated by JAC)	8.355L±0.275L
Fuel tank	Summer: No 0 premium light diesel Winter: No -10 premium light diesel Choose the right model according to local lowest temperature	76L

For gasoline models(HFC4GA3-3D engine)

Part	Recommended grease and fuel	Volume
Engine oil	Diesel engine oil, above CH-4 grade	4L
Transmission	Hot areas 85W/90 GL-4 General area 85W/90 GL-4 Cold areas 80W/90 GL-4 Extremely cold Region 75W GL-4	2.5L
Rear axle	GL-5 heavy load vehicle gears oil Winter:85W-90(above -15℃） 80W-90 or 75w-90(above-30℃）	2.6L
Power steering gear	Automatic transmission oil ATF-Ⅲ	Based on Actual required volume
Brake fluid pot	DOT4/DOT3	
Clutch fluid pot	DOT4/DOT3	
Tires bearing	Multi-purpose grease or lithium tire bearing grease	
Clutch shifting fork	No 2or 3 general lithium grease	
Central support of transmission shaft	No 2or 3 general lithium grease	
Sliding sleeve of transmission shaft	No 2or 3 general lithium grease	
Cooling system of engine	Glycol antifreeze (containing preservatives)	8.355L±0.275L
Fuel tank	Use 92 # gasoline	76L

Transmission oil change



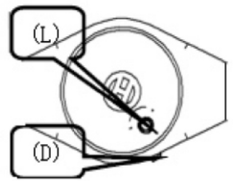
1)Discharging

Take down fuel drain plug to discharge gear oil. Tighten torqure:35-45Nm.Check if it has burr on its surface, if yes,remove immediately.

2)Charging

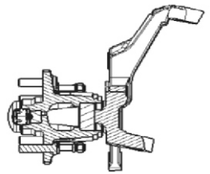
Take down fill plug and fill new gears oil until it reach the rated level of installation hole. Gear oil type

Differential oil change



andvolume:75W/90 GL-4, 2.2L. Check fuel level and tighten fill plug after filling. Screw off rotary plug of discharging hole at the down part of rear axle sell (D) to drain gears oil of rear axle completely, then fill 2.6L specific gears new oil from check hole into rear axle shell, then tighten rotary plug of check hole.

Change lubrication grease of front/rear wheel hub bearing



For changing lubrication grease of wheel hub bearing, it requires dismantle and reassemble of bearing, so please go to JAC authorized service center.

The correct and proper maintenance will not only extend vehicle's life but also improve fuel consumption economy.

Appendix

Model	General specification		
Overall dimension	Overall dimensions(L*W*H)	5135*1830*1815	5135*1830*1815
	Cargo-box dimensions(L*W*H)	1520*1520*470	1520*1520*470
	Wheelbase	3090	3090
	Tread (front/rear)	1540/1540	1540/1540
	Approach angle	29.6	29.6
	Departure angle	22.4	22.4
	Min ground clearance	205	197
Weight specification	Curb weight	1815	1760
	Rated loading capacity	495	495
	Max gadability	30%	30%
	Max radius	12.4	12.4
	Max speed	150	150
	Tire	245/65R17	245/65R17
Engine specification	Modle	HFC4DA1-2C	HFC4GA3-3D
	type	Common-rail,intercooler turbochager	in line-4,Gasoline ,VVT
	Rated power(kw/rpm)	88/3600	110/6000
	Max torque(Nm/rpm)	250/1800-2800	196/3000-4500
	Displacement	2.8	2.0
	Compression ratio	17.2:1	10:1
	Emission standard	ERUO Ⅳ	ERUO Ⅳ
Fuel tank volume(L)		76	76

4 Wheels alignment	specification	Remarks
Total toe	5±8	Tire 245/65R17,tire of dead load radius 340,rolling radius 364.
Camber angle	0.5±0.5	
Caster angle	3±0.5	
Kingpin inclination angle	12±0.75	