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# **Chapter 1 Brief Introduction**

# Brief Introduction

## Safety protection

The car runs at a high rotational speed as well as high-speed, therefore, while driving, in order to avoid the occurrence of danger; you should pay attention to the following matters.

- ☆ The driver and passengers should wear safety belt while driving.
- ☆ Be sure not to drive when drunk.
- ☆ Comply with the traffic regulations.
- ☆ Pay attention to make way for pedestrian or other vehicles while the car door is open.
- ☆ Pay attention to avoid being burnt and electrical shocked while inspecting the car. For example (e.g.): Running engine may lead to injury, scald and electric shock.

Don't touch electrical components; don't touch the high-temperature parts (such as exhaust system), with the ignition on.

## Environmental protection

The earth is our living homeland; every one has an unshirkable duty to protect the environment. Making use of vehicle accurately and putting various of abandoned materials to rational disposal are critical moves towards achieving this aim.

- ☆ You should avoid that the engine works at unnecessary high rotational speed. It is advantageous for economy of fuel, decrease of noise and

environmental pollution, if you adopt appropriate moment to upshift.

- ☆ Do not treat the waste fuel container as the domestic garbage, please have it disposed by your local Chery authorized waste disposal institution.
- ☆ Engine oil, brake fluid, anti-freeze fluid and tires after having been used, can only be disposed by professional waste disposal institution or you can consult your Chery Authorized Service Station for assistance, and do not treat it as household rubbish or drain it to the public drainage system.



- ☆ Battery after having being used contains sulphur and lead. You should not abandon it as common household rubbish. You should deliver it to local waste material disposal station for assistance.
- ☆ Under the circumstance of using regulated gasoline, you are recommended to use high-grade unleaded gasoline.

If your car is equipped with ternary catalytic converter, please inspect it at regular intervals, according to local road and your vehicle's condition, to avoid overexhaust of waste air.

### **Regulations of break-in period for new vehicle**

The friction resistance of every components of the new car is much stronger at the initial stage than that of normal stage. The future service life, reliability and economy of your vehicle shall be largely determined by break-in result of your new car at initial stage, therefore, you should use your new car in accordance with regulations of break-in period.

Break-in regulations within 1000 km:

- \* Do not run the engine at full speed.
- \* Do not drive over 100 km/h

\*Avoid full-speed drive for every gear.

### **Break-in regulations between 1000 km and 1500 km:**

You can speed up gradually while driving; it is OK for the engine working at top speed in a short time.

### **Matters needing attention during new car break-in period:**

You are strictly forbidden to step on the accelerator, whenever the engine is cold. It is not good for you to speed up the engine suddenly. You should start

## Brief Introduction

to drive when the coolant temperature goes up to normal state, otherwise the engine will be worn at an earlier stage. The acceptable top engine speed in a short time is 4000 r/min. In manual shifting case, you should upshift when the indicating pointer of the tachometer gets into the red zone. And avoid the high-speed running of the engine. It is advantageous for economy of fuel, decrease of engine noise and environmental pollution if you upshift without delay.

It is not necessary for engine speed being too low, while normally driving. It is easy for the engine to accumulate Carbon if the engine speed is too low frequently, and furthermore it will

influence the normal use of engine.

It is necessary to drive at low speed, during the first 100 km. You should take special care, for the tires of new car do not have the best friction force for roadway, which will result in brake force not enough and brake distance enlarged.

**! Notice:** Drive the vehicle safely during the first 100 km after replacing the tires.

Brake friction disc of new car does not have the best frictional force; therefore it also needs break-in period. You should drive cautiously during the first 200 km; heavily apply the brake pedal with the parking brake depressed.

Drive the vehicle safely!






**! Notice:** Pay attention to the break-in period during the first 200 km, after replacing brake friction disc, and drive the vehicle safely.





The wheel nuts should be retightened after the new car driving 800 km.






**! Notice:** The wheel nuts should be retightened after driving 800 km, if the tires have been replaced or the wheel nuts have been loosened before.

## Explanation on Regular Reminder



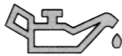


## Indicators of Motor Vehicle






Symbols	Definition
	Door open warning light
	Glass moving forbidden switch
	Rear fog lamp
	Front fog lamp
	Cigarette lighter






Symbols	Definition
	Parking lamp
	Audible alarm
	Low fuel level warning light
	Parking/position indicator light
A/C	Air conditioner

Symbols	Definition
	Anti-lock brake system (ABS) warning light
	Brake system warning light
	Danger warning light
	Seat belt reminder light
	Airbag self-check/malfunction warning light

## Brief Introduction

Symbols	Definition
	Malfunction indicator light/engine self-check light
	Discharge warning light
	Low oil pressure warning light
	Headlight high beam indicator light
	Headlight low beam indicator light

Symbols	Definition
	Head light switch
	Rear windshield heating-up indicator
	! Notice radiator fan
	Outside rearview mirror heating-up
	Front windshield defrosting/defogging indicator

Symbols	Definition
	Wiper switch indicator
	Horn switch
	Interior light switch indicator
	Windshield washer indicator
	Coolant temperature indicator

## **Chapter 2    The Need-to-Know before Driving**

# The Need-to-Know before Driving

## Keys

Your vehicle is supplied with three kinds of key (There is a spare master key with spanner sign on it. This key will not work for the trunk). Your key number is shown on the plate. Keep the key number plate in a safe place, not in the vehicle, in order to ensure safety of your vehicle. You should also put a copy of the key number with your important papers, but not keep it in the vehicle either, in case other people copy the key after acquiring the number.

! Notice:

Do not leave the key in the vehicle.

1. Lock the door while you leave the vehicle.
2. Please carry the key with you all the time.



## Door lock

You can lock or unlock the front door

with keys from outside. You can turn the key counter-clockwise to unlock the door, and turn the key clockwise to lock the door.

! Notice:

Be sure to lock all the doors and the trunk lid before you leave the vehicle



You can lock or unlock the door from inside through secured handle by the

side of car window.

You can lock all the doors except driver's side door from outside, by means of pressing the secured handle, and then close the door.

Driver's side door is in open condition while the secured handle is on; at this very moment, do not try to press on the switch, in case system components are damaged.

You can lock the left front door from outside only with the key, while leaving the vehicle.



It is OK to pull the inside door handle outward if you want to open the door from inside.

It is OK to pull the outside door handle outward, if you want to open the door from outside.



**! Notice:**

Do not keep the children or pets in the vehicle, if there is no body looking after them.

1. In order to avoid suffocation, especially in hot weather.
2. They may cause the accidental moving of the vehicle.



## Central control door lock system

Driver side door (left front door) has the central door lock under control.

All the doors and luggage trunk can be locked or unlocked simultaneously, if you lock or unlock the driver side door (left front door) with key or by pushing

# The Need-to-Know before Driving

the button of door lock.

## ! Notice:

Please lock all the doors and the trunk lid if no body is on watch, before you leave the vehicle.



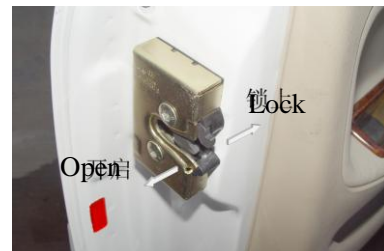
tongue mounted on lower position of two rear doors' locks if you don't want to open the rear door from inside.

Inside door handle is fixed in the “locked” position, that is to say, safety lock for children use is on, and it is impossible to open the door through inside door handle.

## Safety lock for children use

Safety locks for children use are mounted on both sides of rear doors. This lock can prevent rear row passengers, especially children, from opening the rear door accidentally by means of inside door handle.

Pull downward the metallic lock





**! Notice:**

Please use this device when there is a child sitting in the rear row. For it is very dangerous for child opening the rear door accidentally, esp. while driving.

1. Leave the safe lock for children in “on” position.
2. Do not move the inside door handle with the safe lock for children on in order to avoid handle damage.

## Front seat sliding adjustment

Pull the adjusting lever up and hold it, try sliding it forward and backward, to make sure it is in requested position, release the lever, to make sure it is locked properly.



**! Notice**

Adjustments should not be made while the vehicle is moving, so as to avoid vehicle out of control before wearing the safety belt.

Do not put objects under the seats as they may interfere with the seat-lock mechanism.

## Adjustment of front seat angle

Move the adjusting lever in the desired direction. Releasing the adjusting lever

will stop the seatback at that position and make sure the seatback is locked properly.

**! Notice**

Do not adjust the seatback while driving, for it will divert the driver's attention, resulting in vehicle out of control. You should avoid reclining the seatback any more than needed, for it is possible for passengers wearing the seat belts provided to slide during driving. You should have the seatback upright, in order to ensure maximum safety protection.

## Head restraints

To reduce the possibility of neck injury, head restraints is recommended, pull it up or push it down can raise or lower

# The Need-to-Know before Driving

it.



## ! Notice

Head restraint protects your head and neck from being injured in the event of a collision; therefore, adjust it properly before driving. Adjust the top of the head restraint, so that it is closest to the top of your ears. After adjusting the head restraint, make sure it is locked in proper position, before driving.

Disassemble the head restraint:

Pull the damping cushion up to the highest position

It is ok to take the head restraint out, by means of pushing button of the left guide casing set



## ! Notice

For your safety, adjust the head restraint before driving, make sure it is in proper position, and do not disassemble it at will.

## Folding the rear seat backrest

Fold the backrest down to expand the luggage compartment space, if you want to accommodate large objects.

Folding procedures:

Lift the seat cushion up; move forward slightly, it is ok to raise the cushion from the rear.



Take off the head restraint from the seat backrest

·Pull up the locking button of seat backrest, so as to relax the seat backrest, fold it frontward and downward.



In order to make the seat backrest upright, please pull the backrest up, then push it to the “locked” position, and confirm it is locked properly.



In order to make the seat return to its original position, please pull it backward, and then push it until it is locked properly.



## ! Notice

- Do not pile up objects on rear row seat, doing so will obstruct the view of the driver, furthermore, it is possible to hurt the occupant while the objects is moving.

In order to make the seat backrest upright again, please observe the followings:

1. Lock the seat and seat backrest by means of pushing or pulling them.
2. Make sure the seat belt is not twisted or pinched in the backrest, at the same time; please put the seat belts on suitable place.

## Safety belt precautions

Chery recommends that the driver and passengers in the vehicle be properly restrained at all times with the safety

## The Need-to-Know before Driving

belts provided. Use the belt for only one person at a time. Do not use a single belt for two or more people, even children. It is not suitable for child under 6 years old to use safety belt. Child's seat or auxiliary cushion should be installed for child to use.

### ! Notice:

The passengers may be hurt because of inertia in the event of emergency braking or a collision, so you should use safety belt whenever you are driving. Do not use a single belt for two or more people simultaneously. Do not hold hardware or breakables in clothes keeping close to safety belt, especially gas lighter. If gas lighter explodes during process of squeezing, severe accident maybe take place. Failure to use safety belt correctly could lead to severe injury. Do not

reequip safety belt privately, do not attach any equipment which will influence the operation of safety belt. Damaged safety belt could not be used once more; replace it immediately, because it maybe hurt you. Avoid safety belt system being squeezed to damage by door and seat.

### While using the safety belt:

In order to lower the chance of injury, in the event of emergency braking or a collision, please use and maintain safety belt and child restraint system according to accurate method.

### ! Notice:

Failure to wear safety belt correctly could result in personal injury even death. Place backrest of seat upright as possible as you can. Avoid reclining the seatback any more than needed

while driving. Do not wear safety belt if it is twisted, make it smooth before use, or contact your Chery Authorized Service Station for assistance, excellent technical personnel of Chery will help you to solve these problems. Do not fasten diagonal seat belt under your arm, you should fasten it in the middle of your chest, the belt should be kept away from your neck. You should wear the seat belt securely, and as low as possible over the hips and not on the waist. You will be sliding under the safety belt if the safety belt is excessive loose, the risk of personal injury and death may increase. Button of buckle should be placed outward, insert the tab into the buckle. Do not insert anything in the safety belt protective plate opening, in order to avoid safety belt being pinched, if pinched, you have no choice but wrap all the belt to the reel, then take out requested length accordingly (This work should be performed by Chery Authorized Service Station). Please do

not disassemble or modify the safety belt system privately.

### Protection of safety belt

Keep the belts always clean and dry. Avoid safety belt being stained by polishing compound, oil and chemicals, especially acid fluid of battery. If the belts need cleaning, use a mild soap solution or lukewarm water. Never use bleach, dye, or abrasive cleaners- they may severely weaken the belts, result in hidden trouble of safety. You should avoid safety belt touching sharp objects. Check to see if the safety belt is damaged, at regular intervals; replace the damaged components as

soon as possible. Over tensioned safety belt in accident must be replaced, Chery recommends to replace the belt assembly, if it has been used in a severe impact. You should check the belt assembly to see if they need replacing, even if they has not been used in accident, but there is something wrong with them.

**! Notice:**  
Damaged safety belt will lose protective function without replacement. You had better inspect the belt assembly at regular intervals. Please contact your Chery Authorized Service Station for seat belt inspection and replacement, according to the request, after a collision. Replace belt assembly if it has been damaged, stained or used improperly.

The entire assembly used in a severe impact should be replaced, even if damage is not obvious. If the safety belt is not suitable, it may lead to more severe injury. Do not disassemble or modify the safety belt at will.

### Pregnant woman

Chery suggests that the pregnant woman should ask her doctor for specific recommendations before using a seat belt.

**! Notice:**  
The pregnant woman and unborn baby may be hurt during trip. Therefore: If possible, please use three-point type diagonal lapping safety belt (please consult your doctor).

# The Need-to-Know before Driving

## Child restraint system

You should use suitable child restraint system if you carry baby or child.

We recommend that you should choose suitable child type seat installed in vehicle, in accordance with concrete weight and height of the child. Accident statistic material indicates that it is safer to install children restraint system in the rear seat, than the front seat, so we recommend you had better install the child restraint system in the rear seat.

### ! Notice

Baby or little child should be properly

secured in a rear seat, using a child restraint system. Do not use a rear –facing child restraint system in the front seat, because the force of the rapid inflation of the passenger airbag may cause severe injury to the child.

### ! Notice

Always read the manufacturer's instructions, before installing child restraint system.

Fasten it with seat belt or take it away from the vehicle if you do not use it.

Do not hold a child in your arms while driving.

If a child is too big to use a child restraint system, the child should be

properly secured in a rear seat, using the seat belt. You had better not let the child use diagonal type seat belt if possible. If the child use diagonal type seat belt, the seat belt is close to the child's face or neck, please let the child in centre position, that is to say the inside position of seat belt.

## Three-point type seat belt

Chery vehicles are all equipped with three-point type seat belt with brake limiter. Though adjustable seat belt is always next to your body, your body can move freely while steady driving.

Seat belts with an adjustable scroll device, it will be used to lock the seat belt in event of sudden acceleration and deceleration. Please do not try to push forward with the upper part of the body to test it, to see if it is locked or not. Adjustment of length is not necessary for this type of seat belt. You can adjust the scroll device position to your size, if your vehicle has equipped with this device, but the seat belt will be self-locked to prevent the occupant's body from moving, so as to protect the occupants, in event of sudden collision or impact.

## Using the seat belts

Pull the seat belt out of the retractor smoothly, then fasten your belt, make sure the seat belt are not twisted. Insert tab (1) into the buckle (2).



### ! Notice

If the seat belts get caught or pinched, rewrap it once more, then take it out until you get desired length (this work should be performed by Chery

Authorized Service Station), Please insert tab (1) into the buckle after releasing the rear row seat belt, take care that the seat belts do not get caught or pinched in the side doors, in order to avoid side doors or seat belts being damaged.

Push the red button if you want to remove the seat belt. The seat belt will retract automatically.



# The Need-to-Know before Driving

Adjustment of seat belt altitude:

You can slide the adjustable anchor up and down, to adjust the seat belt altitude.

## ! Notice

For your safety, do not place the seat belt too high or too low, it will tie your neck if the seat belt is too high, it will move under your shoulder if it is too low, for your safety, please adjust the seat belt to suitable position.

## Lapping the seat belt

Install the seat belt in the middle of rear row seat. Insert the tab into the buckle. You will hear a click when the tab locks in the buckle.

If the belt is not long enough for you,

move the tab to the suitable position, fasten your belt.

If the belt is not short enough for you, move the tab to the suitable position, fasten your belt.

Press the lap buckle-release button and allow the belt to retract, if you want to release the seat belt. The tab and buckle of rear seat belt is marked with CENTRE. Please check the mark before you wear the seat belt.



## ! Notice

Failure to use seat belt correctly could increase the chance of severe injury. The belt should be kept away from your belly, keep the lap belt as low on your hip bone as possible. It may result in severe injury if the seat belt is damaged or too tight. Do not work hard to insert unsuitable tab into the buckle. Insert the tab into the buckle properly, in order to provide maximum protection of the seat belt system, please put seat belt to the original position after disassembling the rear seat.

## Power window switch

With the ignition in “2” position, you can operate the power windows



through the switch. Push the button down if you want to open the window. Pull the switch up if you want to close the window. Release the switch when the window moves in the requested position.

### ! Notice

Make sure to turn off the ignition key in order to avoid unnecessary injury to the child, while you leave the vehicle. Release the button when the window fully closed, in order to avoid electric motor damage.

Keep your hand, head or other objects inside the window.

Do not let the child play with power window switch, for power window unexpectedly close will result in severe injury.



### Glass forbidden switch

This switch is mounted in the driver's side armrest, push it down (yellow) if you want to lock it, push it once more if you want to return to Free State (green).

If the switch is locked, only the driver can control window glass elevation, window glass of the passenger side and rear row are all no longer have any effect.



# The Need-to-Know before Driving

## Outside rearview mirror

Adjust the mirror so you can see both side of your vehicle in the mirror, suitable position rearview mirror is helpful for you to make sure the position of objects you see in the mirror.



To adjust the rearview mirror in proper position, use the switch:

1. Place the switch at “L” to select the left one to be adjusted, push the switch in the desired direction.
2. Place the switch at “R” to select the right one to be adjusted, push the switch in the desired direction.
3. After adjustment, please push the switch to centre shut position. Right

rearview mirror is a convex mirror with a curved surface. Any object seen in a convex mirror will look nearer than when seen in a flat mirror; you can see the roadway behind the vehicle much wider. The rear view mirrors can be folded backward for parking in restricted areas or while vehicle being washed. To fold the rear view mirror, push backward. This feature will minimum width of vehicle; let it easy to get through.

### ! Notice:

It will increase the possibility of accident if you adjust the rearview mirror not properly for field of vision of the driver is limited, therefore, you should adjust the angle of rearview mirror before you drive. In order to

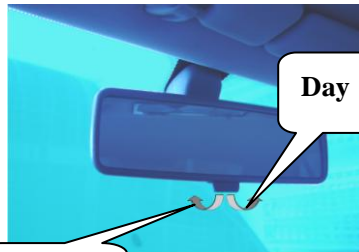
ensure driving safely, please see the back field of vision with outside rearview mirror and inside rearview mirror simultaneously.



## Inside rearview mirror

In order to get the best field of vision, inside rear view mirror can be moved up and down, left and right.

There are two positions of day and night. Place the lever at “day” position while daylight driving, place the lever at “night” position while night driving, so as to reduce glare from the headlights of the vehicle behind you during night driving (The lever is mounted on the lower part of inside rearview mirror).



Night

! Notice

In order to keep rear vision range of the driver, you can select daylight position and carry out adjustment in order to get the best vision. It is possible to weaken the clarity of rearview mirror and limit the vision range, if you select night position.

## Safety airbag

The SRS (Supplemental Restraint System) airbag are designed to protect the driver and front passenger in case of collision; reduce injury by inflating in order to decrease the likelihood of the driver's or front passenger's head or chest hitting the steering wheel or dashboard.

## The Need-to-Know before Driving

In a severe frontal collision or collision from the side, the airbags inflate, they produce fairly loud noise and release some smoke, and the smoke is not harmful. When severe collision occurs, injury even death maybe occur even if you wear seat belts, even if the deployment of airbag is normal, so it is very important for you to be careful to drive and pay attention to the safety!

In case of a severe collision, there is no system can provide overall protection. After collision, it is impossible for you to see whether or not the airbag has inflated with your eyes. In accident which airbag doesn't inflate, the vehicle body is over damaged, that

means it is not necessary for the airbag to activate, because the vehicle has already borne the large amount of impact force. In other accidents, when severe collision occurs, such as chassis collision, it is not in a large scale that the chassis maybe damaged, but it maybe results in airbag explosion.

### ! Notice:

For the safety of all occupants, be sure to always wear seat belts. The SRS airbag system is designed only as a supplement to the primary protection of seat belt systems of the driver and front passenger. Do not remove components of airbag without permission, doing this may cause

personal injury, do not modify components of airbag system. It is very dangerous to modify, remove or open the safety airbag without permission; doing so may cause personal injury. You should have the airbag disposed and replaced by Chery Authorized Service Station. Do not put objects on or in front of the dashboard or steering wheel pad that houses the airbag system, they might restrict inflation or cause personal injury.

The airbag will not work under the following conditions:

Two vehicles collide with other each, impact from the side, vehicle rollover and not enough impact force.

## Airbag for the driver



The driver's airbag is located in the center flange of steering wheel pad. The airbag inflates within several seconds, in order to form a safe buffer air cushion for the driver. After the airbag inflates to the full, gas will disappear, so as not to block field of vision to the driver, so as not to

influence the driver's normal driving. The SRS airbags will inflate with considerable speed and force; the airbag can give full play to its function if you adjust the driver's seat and backrest properly.

### ! Notice

Do not repair the steering wheel, steering axle and airbag without authorized permission, you should have these work done by Chery Special Service Centre.

## Front passenger airbag



In some vehicle type, airbag is located in the frontal instrument panel of front passenger. This airbag system is big enough, it will inflate very rapidly, if front passenger is not in a suitable position and front passenger don't wear seat belts, it is possible for the passenger to be hurt severely by the airbag. Move the seat backward as possible as you can, and seated yourself backward as possible as you can.

### ! Notice

Do not use a rear-facing child restraint system in the front seat, because the force of the rapid inflation of the passenger airbag may cause severe

# The Need-to-Know before Driving

injury to the child, so a child should be properly secured in a rear seat using a child restraint system.

You should secure a front-facing child restraint system in rear seat, if your child is too big to use the child restraint system, let the child be seated in rear seat wearing the seat belt.

## ! Notice

Do not repair the instrument panel without authorized permission, you should have these work done by Chery Special Service Centre.

## Engine compartment hood

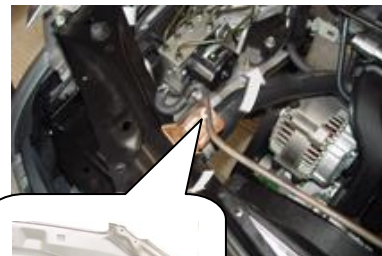
1. Pull the handle mounted in left lower part of instrument panel; unlock the engine compartment hood.



2. Push the buckle backwards; lift the engine hood, shown as the illustrations.



3. Insert the supporting lever to the hole of engine compartment, so as to support the engine hood.



4. Take the supporting lever out, before closing the engine hood, press the spacer, in order to avoid vibration of supporting lever and producing noise.

5. Let the engine hood be falling freely from 30 cm (1feet) high, close the engine hood, finally pull up edge of engine compartment hood, to make sure that the engine hood is locked properly.

### ! Notice

While driving, do not open the engine compartment hood. Before driving, pull the hood edge; check it to see whether or not the engine compartment hood is completely locked. Do not

operate the open handle of engine hood while driving, because not only the driver's field of vision will be influenced, but also windshield window glass maybe crashed to be broken, if the engine hood is unexpected opened while high-speed driving, resulting in personal injury. Do not drive the vehicle while the engine hood is open, because the vehicle maybe moves from the static state with the engine hood open. Be sure that the ignition key is taken off, put the transmission to gear 1 or reverse gear and make the parking brake ready for use. When the engine is running, pay attention to the

following matters while checking the bottom of engine compartment hood: Put the transmission to neutral gear, pull up the parking brake. When the engine is running, running components of engine will be uncovered if you open the engine compartment hood, do not wear loose clothing, keep hands and hair away from the running parts and exhaust manifold, for the high-temperature parts maybe cause unnecessary personal injury.

### Open trunk lid

# The Need-to-Know before Driving



Insert the key to trunk key hole, the trunk lid will be opened if you turn the key counter-clockwise, the trunk lid will be closed if you turn the key clockwise, pull the trunk down to “lock” position, check to see the lid is securely locked

Turn the key and push the lock core upwards to lift the trunk lid if you want to open the trunk (it is impossible for you to open the trunk lid using maintenance key, maintenance key is marked with spanner)

## ! Notice

While driving, it maybe blocks the driver's field of vision if the trunk lid is opens, increasing the possibility of incident. Therefore: Do not drive the

vehicle with the trunk lid open.

Fuel filler port is located in right side wing of the vehicle.



Open the fuel tank outer cap.





Unlock the interior cap of fuel tank with vehicle key.



Pay attention to the following matters while refueling:

1. Turn off the engine.
2. Push down the front side of fuel tank cap, shown as the illustrations; it is ok for you to open the tank cap.
3. Insert the key; turn it counter

clockwise if you want to open the fuel trunk cap, turn it clockwise if you want to close the fuel trunk cap.

4. After refueling, turn the fuel tank cap clockwise, tighten it (until you hear a click), and then close the fuel filler cap.

### ! Notice

Fuel fumes are inflammable, turn off the engine while refueling, do not smoke, keep away from fire and spark, do not use microwave communication tools (such as mobile phone), in order to avoid fire disaster.

Do not apply leaded gasoline to unleaded gasoline vehicle, in order to avoid engine and exhaust system damage. The gasoline will damage the

paint surface, please wash the paint surface with cold water as soon as possible, if the paint surface is spattered with gasoline. Fuel in fuel tank maybe in compression condition, you should turn the fuel tank cap slowly, then completely unscrew the fuel tank until there is no “hissing” sound. It is impossible for you to open the fuel refueling cap in cold weather, pushing or knocking the refueling cap slightly will be helpful for you to open it, because there maybe remaining fuel in the fuel tank, total amount of fuel every time you refill should be lower than the standard capacity.

# **Chapter 3 Operation and Adjustment of Equipment inside Vehicle**

## Adjustment of steering wheel

This equipment is designed according to requests from drivers of different height, bodily form and hobbies.

Adjustment:

Pull down the adjustment switch, move the steering wheel up and down to suitable position, then pull up the switch to “lock” position, shake the steering wheel to see if it is locked properly.



! Notice: Adjusting steering wheel is strictly forbidden while driving. You can drive only after the adjustment is performed and the steering wheel is locked properly, otherwise it may cause severe traffic accident.

## Horn button Sun visor

Horn button on both sides of the steering wheel, wherever the ignition switch is, the horn can bark.



## Sun visor

Sun visor can be rotated up and down, or can be rotated laterally, protect driver and occupants against strong irradiation.

Pull down the sun visor if you want to keep the front sunshine away, sun visor on the left can be took out of the fixed clamp buckle on the right of the sun visor. Rotate to left side glass regarding the left axle as the center, in order to keep left side sunshine away.

It is ok for you to buckle the sun visor and straighten it up while taking the sun visor back.

# Operation and Adjustment of Equipment inside Vehicle



## Vanity mirror

The vanity mirror is mounted on the back of right side sun visor.

The right side sun visor has same function and operation methods as the left one but not like the left one, the right sun visor is mounted with vanity mirror. The vanity light comes on when you open the cover, providing you with illumination.



## Auxiliary handle

Auxiliary handle is mounted on the upper position of right front door and back row door, it make things convenient for the passengers.



# Operation and Adjustment of Equipment inside Vehicle

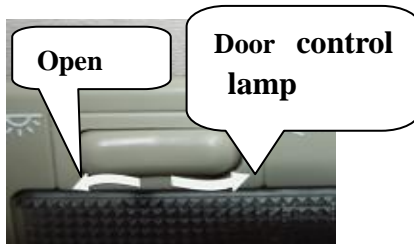
## Interior light



The interior light has two switches:

The big interior light switch is on the left:

Press to the left is “ON”, that is to keep light on all the time, no matter whether or not the door is open.



Press to the right is door control light; the light will be on when the door is open.

Middle position: It is in the “close” position, even if the door is open; the light will not be on.

Passenger's reading light is on the right:

In order to make things convenient for the passenger, passenger's reading light is installed, press to the left if you want to turn it on, press to the right if you want to turn it off.

The door light has automatic delayed function, after all the doors are closed, this light will still be on for a while, and it will go out after 7 seconds.



# Operation and Adjustment of Equipment inside Vehicle

## Rear ceiling lamp

In order to make things convenient for rear row passengers, rear personal light are designed, it is the door light simultaneously. If you press the “door” button, the light will be on if the door is open; the light will be off if the door is closed. If you press the “open” button, the light will be always on, therefore, we recommend you press the “door” button.

## Front cup holder

The cup holder is mounted on the front controls panel; it is designed for holding cups fit snugly in its holes.

! Notice:

If the lid is forcibly pulled up, the drink may spill over the seat occupants, so do not leave the cup lid open, while driving.



Operation:

Shown as the illustration, push the outer cover of cup holder; you can open it.



Push it in completely; you can close it.



# Operation and Adjustment of Equipment inside Vehicle

## Front ashtray



Front ashtray is mounted under the front control panel. To use the ashtray, push the outer cover.



If you want to empty the ashtray, make

it open completely, shown as the illustrations. To remove the ashtray, pull the ashtray upward. Install the ashtray in reverse orders.



## Cigarette lighter

Cigarette lighter is mounted under the ashtray. To use the cigarette lighter, press in the lighter. When it becomes heated, it automatically pops out ready for use.

! Notice:

Do not touch the heating wire of the cigarette lighter for it may be catching fire while the lighter is heated. Do not let children play with the lighter. Do not depress the lighter by hand. Do not regard the lighter slot as power supply socket; otherwise it will increase the chance of damage or electrical appliance circuit malfunction.



# Operation and Adjustment of Equipment inside Vehicle

## Front armrest box

Front armrest box is located between the front seats; you can make the armrest slide both forward and backward, according to different occupant's requests. Push the armrest frontward or backward; you can change its position.



Armrest box is bi-level, push switch A, shown as the illustration, turn it upward, the handrail box can be opened; you can accommodate small or thin objects in it.



Push down switch B, turn it upward simultaneously, the lower layer of armrest box can be opened, and there is enough space for you to accommodate larger objects in it.

### ! Notice

The handrail box doesn't have reliable locking system, therefore, please do



## Operation and Adjustment of Equipment inside Vehicle

not leave the valuables in it. Make sure to lock the door and take the valuables all with you while you leave the vehicle.



Glove box is mounted by the side of instrument panel. To open: pull the lever down, shown as the illustrations.



To close: Close the glove box shown as the illustration.

**! Notice:**

Glove box has no reliable locking mechanism, therefore never leave anything valuable inside the glove box. You should always carry the valuables with you when leaving the vehicle; meanwhile, you should lock the door.

### Rear ashtray



Rear ashtray makes things convenient for passengers of rear row. To use the

ashtray, pull the switch backward, shown as the illustration.



Pull the ashtray out if you want to clean it, shown as the illustrations. Install the ashtray in reverse orders.

**! Notice:**

If cigarette butts have not gone out, do not try to remove the ashtray, in order to avoid being burned.

# Operation and Adjustment of Equipment inside Vehicle

## Stand-by power supply interface



Stand-by power supply interface is used for inserting electrical equipment of other vehicles. It is ok to insert the plug of electrical appliance after uncovering the interface, please cover it after use.

### ! Notice

This power interface only supports D.C. electrical appliance of 12V (Power 120 W), please check the rated voltage and power of the electrical appliance which you want to join up, in order to avoid dangerous accident.

## Rear armrest box / cup holder

There is a hidden rear armrest box between the rear seats, shown as the illustration, pull down it if you want to use the armrest.



Shown as the illustration, push on the lid if you want to open the armrest box, there is a rear cup holder, and you can accommodate small and light objects in it.



## Operation and Adjustment of Equipment inside Vehicle



To use the cup holder, pull the cup holder forward.



### ! Notice

The armrest box has no reliable locking device, please let it return to its original position, if you leave the

vehicle, take the valuables all with you and lock the door. If the lid is forcibly pulled up, the drink may spill over the seat occupants, so do not leave the cup lid open while driving.

# **Chapter 4 Starting up and Operating**

### Fuel

Select premium gasoline with a Research Octane Number of 93 or higher for optimum engine performance. Engine damage caused by use of improper fuels is not covered under Chery's new vehicle warranty. Make sure to select premium gasoline with a Research Octane Number of 93.

**! Notice:**  
Do not select leaded gasoline for unleaded gasoline vehicle in order to avoid engine and exhaust system damage. Damage caused by use of improper fuels is not covered by Chery's new vehicle warranty. In order to avoid filling leaded gasoline

accidentally, leaded gasoline filler tube should not be inserted into unleaded gasoline filler port. It is impossible for Chery to use fuel containing methyl alcohol (ethyl alcohol). The vehicle performance will be not good and fuel system elements will be damaged, if you use this kind of fuel. Fuel system damage and performance problems are not covered by Chery's new vehicle warranty.

If you drive your Chery in other countries, be sure to pay attention to the following matters:

Comply with relevant laws and safety regulations.

Confirm the availability of the correct fuel.

In order to ensure safety, fuel pump and pipe must be connected to ground, while refueling with fuel drum or fuel

container, especially if you use non-professional refueling equipment.

Under certain pressure, while fuel is flowing, if the hose (especially plastic hose), which is mounted on fuel distribution pump does not connect the very ground; it is possible to generate large amount of static electricity.

Grounding pump and pipe are recommended. In the case of non-professional fuel filler operation, fuel container should be connected to ground appropriately, too.

### Ignition switch

Steering wheel lock hole position:

## Starting up and Operating

Position 1-Turn off the ignition switch and the steering wheel is locked.

In order to lock the steering wheel, please turn the steering wheel pull out the key, until you hear a click. The radio and horn no longer work in this position.

### ! Notice

Do not pull out the key before parking the vehicle properly, in order to avoid locking the steering wheel accidentally.

Position 2-Complete the ignition electric circuit.

If it is hard or impossible for you to turn the key to this position, you can

turn the steering wheel slightly, in order to relax the locking mechanism of steering wheel.

Position 3- Start the engine

When the lock hole is in this position, front headlight and electric appliance with heavy power consumption are all cut off.

Anti-repeat starting device is installed in the ignition switch. This device will prevent the starter from misstarting, once the starter is running, so as to avoid flywheel of engine and starter being damaged. If you fail to start the engine, please let the ignition key return to position 1 before restarting, then turn the ignition key to position 2.



### Before starting the engine

1. Make sure that all occupants fasten seat belts properly.
2. Turn off unnecessary lights and accessories.
3. Make sure pulling hand brake up.

4. Check warning lights of instrument panel to see if they flicker shortly. If not, please contact your nearest Chery Authorized Service Station for service.

5. Lock all doors and trunk lid properly.

6. Make sure lights and turn signals are in good condition.

7. Make sure performance of brake is reliable.

8. Make sure fuel is enough.

9. Make sure that cleaning degree of window glass and lampshade glass are up to the standard.

10. Make sure tire and tire pressure are up to the standard.

It is not necessary to have some items checked every time, such as:

Check engine oil level.

Check coolant level.

Check brake fluid level.

Check power steering fluid level.

Check windshield washer fluid level.

### **Turn engine on/off**

1. Turn the ignition to “3” position with your foot off the accelerator pedal.

Release it when the engine start, turn the key to “2” position. If the engine cannot start within 5 seconds at first time, the temperature is more than -12°C, you should turn the key to “1” position, restart it after 10 seconds.

2. If the engine can not start within 15 seconds at first time and the temperature is lower than -12°C, you should turn the key to “1” position, restart it after 10 seconds. Release the key when the engine starts.

3. For automatic transmission type vehicles, after the engine starts, idling for several seconds, depress the brake pedal, release hand brake; hold it to the floor until driving off.

4. For manual transmission type vehicle, make it idling for several seconds after the engine starts, depress the clutch, hold it to the floor until driving off, and release parking brake.

5. Release acceleration pedal first

## Starting up and Operating

while stop the car. Turn of ignition switch while the engine is idling.

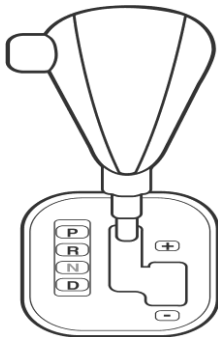
6.You should not turn off the engine immediately, after long-distance driving at high speed, let the engine idling for 1 to 2 minutes, make things convenient for the engine temperature fall gradually.

### Warming the engine up

In cold weather, let the engine idling for some time after it starts, (let the engine warm up for a few minutes before driving), and then speed up gradually.

**! Notice:** For the vehicles with CVT transmission, the gearshift lever must be shifted to N or P position to start the vehicle normally.

### Operation of Continuously Variable Transmission ( \* With 1.6 CVT)



Function of Gearshift Lever Position  
Gear Selector Lever Position

P = Parking

R = Reverse Gear

N = Neutral Gear

D = Drive Gear

Manual Gearshift Mode

+ = Up shift

- = Downshift

1. The manual gearshift mode can only be shifted to when the gear selector lever is at position D.

2. Shift the gear selector lever into position when want to shift to manual gearshift mode.

3. Under the manual gearshift mode, shift the gear selector lever towards + mark to up shift the transmission to the nearest high gear; shift the gear selector lever towards - mark to



downshift the transmission to the nearest low gear.

4. Under manual mode, the up shift can be performed at any vehicle speed; however, the downshift can only be performed once the vehicle speed lowered to allowable scope.

5. When to shift the gear selector lever from P to R, from N to R, or from R to P, the limit button on the gear selector lever must be pushed down to release the gear selector lever lock. It's no necessary to push down the limit button when shift the gear selector lever at other positions.

Start

Keep the engine running at idling speed, step down the brake pedal, and

shift the gear selector lever to whichever drive gear.

The vehicle will travel itself slowly after the brake is released. Step down the accelerator pedal to increase the vehicle speed.

**! Notice: The vehicles with automatic transmission can't be started by trailing or pulling the vehicles. Please conduct jumper start by means of connecting the jumper cable to the support battery.**

Under special conditions, it may shift to manual mode gear 2 as the start gear on the ice & snow covered roads.

### Drive out Sand and Snow

If the drive wheel is entrapped in the sand or the snow, try to shake the vehicle by repeated forward/backup. Shift the gear selector lever between D and R and step down the accelerator slightly. In order to enhance the effects, it can shift to R when the vehicle is still moving forward and vice versa.

Avoid the long period gearshift (shaking) between forward and backup, which may result the excessive worn-out of the transmission. The shaking period should not exceed 1 min. Try best to keep the engine at low speed during the vehicle shaking.

## Forced Downshift

The automatic transmission can supply enhanced torque at upward steep slopes or at overdrive. In order to achieve the forced downshift effects, hold under gear D and step down the accelerator pedal completely. When the engine reached max speed, the transmission will shift to the next lower gear.

## Midway Parking

Release the accelerator pedal and step down the brake pedal. Keep the gear selector lever at its original position. Release the brake pedal when to restart.

## Driving Essentials of Vehicle with Automatic Transmission under Various Road Conditions

For small gradient flat roads, it's recommended to use gear D. It can achieve immediate acceleration performance by stepping down the accelerator pedal rapidly.

Stepping down accelerator rapidly: The driver steps the accelerator pedal completely rapidly. The effects of stepping down accelerator rapidly are to downshift the transmission mechanism from original gear with the purpose of increasing the torque before increasing the speed to higher engine

speed and gear so as to achieve predominant acceleration capability.

### Notice:

1. The vehicle will shock slightly at the same time when downshift for acceleration, which is the effects of forced downshift instead of the engine acceleration tremble. All above are related to the rapid stepping down of accelerator, which are the important driving essentials the driver must master.
2. It's difficult to downshift for acceleration if stepping down the accelerator slowly. If stepping down the accelerator to the half or two third

of stroke, it's impossible to obtain sufficient acceleration horsepower (torque), even though it can obtain the increasing of some horsepower (torque). That's the cause why the customers complained low horsepower during driving. In addition, when stepping down the accelerator slowly for acceleration, the engine tremble will even get bigger. Therefore, it should be avoided.

3. For the roads with medium gradient, it's recommended to use gear 3 or gear 2 under manual mode. It can obtain immediate acceleration performance by stepping down the accelerator rapidly \*.

4. For the roads with large gradient,

please use gear 1 \* under manual mode and do not use gear D. It can obtain immediate acceleration performance by stepping down the accelerator rapidly.

5. The driver should shift to gear 2 or gear D manually for normal driving based on the variation of gradient, instead of using gear 1 during entire journey. The long period use of gear 1 instead of shifting to the gear D for normal driving may damage the transmission, which should be specially noticed.

During the downward slopes, the long period of sustained braking may result the weakening of the brake performance due to the brake

overheating. At that time, the engine brake \* should be fully utilized to slow the vehicle.

6. The engine brake refers to brake effects achieved through the engine deceleration and gear ratio of low gear when shift the transmission to low gear during driving and release the accelerator pedal.

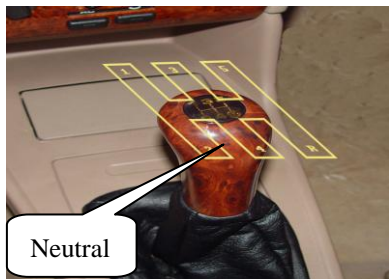
7. The lower the gear is, the better the engine brake effects is.

! Notice: During the high speed driving of the vehicle, the shift to the low gear will apply great impact on the engine and the transmission, which may result the damage of engine and

# Starting up and Operating

transmission. The low gear can be shifted to only when the vehicle speed is lowered to the speed allowed for downshift.

On the downward slopes with much big gradient, please use the manual gearshift mode and shift to the lowest gear before the downward slopes in order to achieve max brake effects.



## Operation of manual transmission

This vehicle is equipped with full synchronous mechanical transmission, used for front wheel driving. There are 6 gears in all: 5 are forward band, and 1 is reverse gear.

When you step on the clutch pedal, the vehicle disconnect the drive between two shafts, release the clutch, connect suitable gear, step on the accelerator, you can drive. While gear changing, step on the clutch pedal completely, the whole process of gearshift will finish. If it is downshift, after you step

on the clutch pedal, shift the lever to neutral gear, then shift to corresponding low-speed gear, release the clutch pedal, downshift can be done.

## Operation of hand brake

In order to avoid vehicle unexpected moving, you should pull the brake lever tightly upward, after parking.

With the ignition on, the brake warning light will be on if you pull hand brake up.

- Pull hand brake lever upward if you want to use hand brake.
- Slightly pull hand brake lever upward,

push releasing button of lever top down if you want to release hand brake.

Hand brake is used for rear wheel parking.

It is easy for you to pull the hand brake up if you step on brake pedal while pulling the hand brake up.

**!Notice:** Be sure to pull hand brake up, before you leave the vehicle.



### Braking system

The movement of every pedal should not have any resistance, so you should be sure not to put anything easy to roll over or slide on in that very space.

Brake pedal travel may be enlarged if there is something wrong with the braking system.

Under any circumstances, clutch pedal and accelerator should be stepped on to the full.

For the above-mentioned reasons, you had better not put pad or other things on the pedal surrounding floor, if indeed necessary, you should be sure

that the pad will not obstruct movement of the pedals and the pad should not be sliding easily.

### Operation guide

New brake gasket cannot be in the best braking condition, until it passes the break-in period. In the first 200km, braking performance is not in very good condition, under this circumstance, you can recover braking effect, only by means of depressing the pedal greatly; it is applicable for the new gasket after replacement.

There may be something wrong with dual return circuit braking system, if

## Starting up and Operating

the pedal travel is enlarged immediately. At this time, the vehicle can still have braking performance, if you depress the pedal, and the braking distance will enlarge.

Check brake fluid level at regular intervals, according to the request.

Brake gasket wear mainly due to driving style, as to vehicle mainly used in urban driving, working condition of brake gasket is rather harsh, for frequent starting and parking. So, you should be sure to have the disc checked or replaced by Chery Authorized Service Station, according to the regulated mileage in the maintenance manual.

While driving down the hill, you should make full use of engine braking performance, downshift when necessary, give the braking system less pressure. At this time, you should not continue to step on the brake pedal, even if braking is needed.

· After driving through water, rainstorm or vehicle being washed, the brake gasket is wet or frozen, braking performance will be obviously weakened, at this time, you should step on the brake pedal slightly, let brake gasket and brake disc touching together to generate heat, in order to let the moisture evaporate and recover the braking performance.

After driving on road containing salt,

the salt will be adhesive on surface of brake disc or brake gasket, resulting in braking performance is not good, so you should clean the salt off in time.

### ! Notice

If your vehicle is equipped with the front spoiler, you should ensure the air to front brake unblocked, otherwise the braking system may be overheated because of friction.

It indicates ABS is in self-check mode and ABS system works normally, if the warning light is on first, after several seconds, it is off, while the vehicle with ABS system is started.

It is normal that the motor makes some sound and the pedal vibrates

after ABS is assisting the braking performance.

Do not step on the pedal repeatedly while ABS is assisting braking performance, for ABS system will adjust braking pressure more quickly than you.

Do not forget steering, in order to avoid front obstacles, while ABS is assisting braking performance.

·ABS warning light will be on if there is something wrong with ABS system, at this time, conventional braking performance is still exist, but you should have the vehicle checked by Chery Authorized Service Station, as soon as possible.

### **Brake servo unit**

The brake servo unit usually use vacuum to work, this apparatus work only when the engine is working, so you should not turn the engine off while driving down a hill.

If there is something wrong with the vehicle and vacuum servo, vacuum tube damage or leakage, or one-way valve damage, the brake servo unit can not work; you should depress the pedal greatly to recover the supplement performance of the brake servo unit.

### **Brake fluid**

Brake fluid tank is mounted on the left side of engine compartment.

### **Check brake fluid level**

Brake fluid level should accord with the regulations, in order to satisfy demand of brake system and ensure driving safely. The level should be between “MAX” and “MIN” lines.

Braking system of Chery vehicle is equipped with friction gasket braking adjustment mechanism, this mechanism can adjust the clearance automatically after the gasket being

worn, therefore, the brake fluid level may be lowered during process of use, it is normal, do not worry, but the level is obvious lowered or fluid leaks in a short time, you should have braking system checked and repaired by Chery Authorized Service Station, as soon as possible.

### Replacement of brake fluid

Brake fluid has hygroscopicity, it will absorb moisture during process of use successively, if brake fluid contains too much moisture, braking system will be damaged, at the same time, boiling point of brake fluid will be

lowered, it will severely influence braking effect and safety. For the above-mentioned causes, you should replace the brake fluid every 2 years or having driven 5000 km.

! Notice: Brake fluid is poisonous! Be sure to store it in the original sealing container; keep it away from children.

Brake fluid is corrosive to the body paint!

Brake fluid disposal is a very professional work, SST is necessary, and so you had better have it replaced by Chery Authorized Service Station.

### Parking

With the brake pedal pressed down, fully depress the parking brake pedal to apply the parking brake securely.

· Shift the selector lever to neutral gear if you park the vehicle on the level surface; shift the selector lever to reverse gear if you park the vehicle down the hill; shift the selector lever to position “1” if you park the vehicle when climbing a gentle slope.

· Keep all windows and skylight closed.

· Turn the ignition key to position “1”, pull the key out.

· Lock all the doors and trunk lids.



•Bring the vehicle to a complete stop.

! Notice: It may cause fire because the exhausting parts are very hot, before parking, make sure that there is no flammable objects around the vehicle such as grassland or straws. The vehicle may unexpectedly move while being parked, therefore: 1. Fully depress the parking brake pedal to apply the parking brake securely. 2. Park the vehicle on solid road. 3. Do not make the vehicle aligned while parking on the slope. 4. Using parking brake will cause rear brake damage while driving. 5. Parking brake maybe frozen on cold weather, if the vehicle fords water while driving (brake components get wet) or vehicle being washed, it is easy for this circumstance to occur. If the rear brake is frozen, you should:

1. Pull up the parking brake pedal; shift the selector lever to gear 1 or reverse gear.
2. Lock up the rear wheel, in order to

avoid vehicle moving.

3. Release the parking brake.

4. Drive the vehicle slowly for a while.

### Anti-lock brake system (ABS)

The anti-lock brake system is a kind of advanced electric braking system, it can prevent vehicle from sliding while braking.

The anti-lock brake system is designed to automatically prevent lock-up of the wheels during sudden braking or braking on slippery road surfaces. This assists in providing directional stability and steering performance of the vehicle under these circumstances.

The anti-lock brake system becomes

operative after the vehicle has accelerated to a speed, it stops operating when the vehicle decelerates to a speed, and ABS makes use of sensor to react the speed difference. The system inspects the locked wheel speed being at hand, and has corresponding brake force under control through electric signal.

“ABS” warning light will come on when the ignition key is turned to the “ON” position. After several seconds, the light will go off. If the light comes on while you are driving or the light remains on when the ignition key is turned to the “ON” position, it warns that there is a problem somewhere in your anti-lock brake system. Even if

## Starting up and Operating

the anti-lock brake system should fail, the brake system will still operate conventionally. Contact your Chery Authorized Service Station as soon as possible.

### Braking with anti-lock brake system

You may feel the brake pedal pulsating and hear a noise, in this situation, let the anti-lock brake system work for you, just hold the brake pedal down more firmly, whatever the road surface conditions are.

ABS system is designed to maintain maximum braking effect, by means of

adjusting braking pressure of every wheel, at the same time, this assists in providing directional stability and steering performance of the vehicle.

You may hear a sound along with slight vibration. This means that the anti-lock brake system is working normally.

In case of emergency, when the anti-lock brake system function is in action, put forth your strength to step on brake pedal and clutch pedal, doing this will have the steering system fully under control.

We recommend you should go up with the ABS brake technique as soon as possible, in order to provide better

braking capacity for your vehicle.

### ABS self check

The anti-lock brake system is in the self-check mode, when the engine is started.

You may hear a slight mechanical sound, while the anti-lock brake system is in the self-check mode, and does not indicate a malfunction.

**! Notice:**

Parking distance changes much considerable, according to road and driving condition, therefore: 1. Always maintain a safe distance from the vehicle in front of you. 2. Avoid high speeds on wet or slippery road.

The anti-lock brake system cannot overcome accident resulting from

careless or incorrect operation, therefore: 1. You should be careful to drive. 2. Decelerate while making a turn. 3. Press the brake pedal firmly and remain on.

If the “ABS” warning light comes on while you are driving, it warns that there is a problem somewhere in your anti-lock brake system. Therefore:

1. Parking the car and contact your Chery Authorized Service Station as soon as possible.
2. Before driving, have the system checked by professional personnel.

### Steering system

Power steering oil tank is located on the left and front side of engine compartment, near the battery.

Maximum steering angle of the left front wheel is: 30 °

Maximum steering angle does not exceed 40.0 °

### Driving through water

Drive the vehicle cautiously and slowly, if you have to drive through water, especially you do not know condition of the water.

**! Notice:** Do not drive forward, if the water floods the rims.

While driving through water, the parking brake will not hold the vehicle securely, the vehicle is hard to be towed, and furthermore, the vehicle has a possibility of going out.

Water entering the intake pipe of engine may cause severe damage to the engine. If you drive through deep water; water will enter the transmission through the vent, causing damage to the transmission.

While driving through water, be sure to drive the vehicle slowly while lightly pressing the brake pedal for several times, to dry the brakes, for the brakeage will be weakened if the brakes are wet.

### Ternary catalytic converter

Leaded gasoline is harmful to the catalytic converter and electrical

## Starting up and Operating

control system, do not use leaded gasoline.

In the case of vehicle with catalytic converter, fuel filler port of fuel tank is too small for the leaded gasoline filler gun to insert.



### ! Notice

Do not use leaded gasoline, in order to avoid damaging the catalytic converter. The catalytic converter and vehicle may be damaged if you do not observe the following tips:

- If the engine can not start, the engine works abnormally after cold starting,

engine power is not in good condition or any other abnormal phenomenon indicating ignition system malfunction occurs, you should drive at low engine speed in a short time.

You should avoid:

Frequently cold start the engine.

Working hour of engine is too long, while restarting (fuel injecting hour, in starting stage, is postponed)

The fuel tank becomes empty (abnormal fuel supply will result in engine overheated)

Start the engine by means of towing (unburn gasoline will enter the catalytic converter)

Have all maintenance work done by Chery Authorized Service Station. All components of electrical control system, injecting system and ignition system work normally, will reduce emission pollution and extend catalytic converter life.

### **Recommended operation to save fuel**

How to save fuel mainly depends on your operation mode.

Here are some specific tips on how to save fuel as possible as you can:

Start driving steadily, accelerate slowly and smoothly.

Avoid engine idling

Do not use air conditioning, unless it is necessary.

- Drive at low speed on uneven road surface.

- Keep your tires inflated at the correct pressure, in order to avoid wasting fuel, in order to make the tire last longer.

- Keep a proper distance from other vehicles, to avoid sudden braking, doing so can reduce wear on your braking friction discs. (You can save fuel because it is not necessary for you to refuel for acceleration)

Do not carry unneeded weight in your vehicle.

Do not rest your foot on the brake pedal, this causes unnecessary wear, even damage the brakes and causes greater fuel consumption.

### Electrical Cruise Control System (✱)

In order to relieve the burden of driver to step down the accelerator and on the condition that it's allowed by the engine power, the cruise control system can drive the vehicle stably at certain approximate speed above 45 km/h.

**! Note:** It's not allowed to use the cruise control system in heavy traffic regions and under adverse driving conditions (such as driving on smooth roads, the vehicle skid condition or fast rolling condition). During the working

of cruise control system, do not shift to the idle running status unless the clutch pedal is stepped down; otherwise the engine will run at high speed or even may be damaged.

The cruise control system can be started only when at "D", "3" and "2" gear. If shifted to other gear ("P", "R", "N" or "1") during the driving, then the last saved speed will be cleared and the cruise control system will be fully turned off.

The operation of slide switch A and button switch B on the handle by means of the turn signal and the alternating signal can operate the cruise control system.

Button switch B    Button switch A

### Speed Setup

If the vehicle has reached the desired speed, press the slide switch once towards “O/I” direction. At that time, the cruise indicator light in the instrument cluster will flash and at the same time press “+” or “-” once on the switch B to enter into cruise system. Then the driver may remove the foot from the accelerator pedal.

Also, driver can increase the vehicle speed by stepping down the accelerator pedal as driver would normally. After the accelerator pedal is released, the cruise control system will control the vehicle to drive stably at the preset speed.

If the period when the vehicle speed is above the preset speed more than 10km/h exceeded 5 min, then the originally preset speed will fail and the cruise speed must be re-set.

#### Notice:

**If the saved speed is not high enough compared with current traffic conditions, then the cruise speed should be re-set.**

### Deceleration Setup

It can change the speed setting by pressing the button switch B.

Each press of button B towards “-” direction will decrease the cruise speed by 1.5 km/h. If sustained for certain period, the cruise system will decrease the cruise speed by reducing the accelerator opening automatically. After the button B is released, the cruise speed setting will be saved.

If the button B is released, the memory will be cleared if the cruise speed is lower than 45 km/h. It can re-set the vehicle speed by means of slide switch A only when the vehicle speed is increased to above 45 km/h.

### Acceleration Setup

Each press of button B towards "+" direction will increase the cruise speed by 1.5 km/h. If sustained for certain period, the cruise system will increase the cruise speed by increasing the accelerator opening automatically. After the button B is released, the cruise speed setting will be saved.

### Temporary Turn-Off and Resumption

It can temporarily turn off the cruise control system by means of stepping down the brake pedal or pushing the slide switch towards "O/I" direction (not to limit position). After the brake pedal or slide switch is released, if the vehicle speed is above 45 km/h, push the slide switch A towards the "RES" direction for the driving at constant speed in accordance with the preset vehicle speed. If the vehicle speed is lower than 45 km/h, step the accelerator pedal to increase the vehicle speed to 45 km/h before push

the slide switch A towards the "RES" direction and then the vehicle will drive at constant speed in accordance with the preset vehicle speed.

### Turn Off

When the vehicle is under cruise status, push the slide switch towards "O/I" direction (to limit position) to fully exit the cruise control; or turn off the ignition switch while the vehicle is still to fully turn off the cruise control.

# **Chapter 5 Instruments and Controls**





## Warning lights system

Warning system is used to see if there is a problem serious enough to cause damage or injury; it is used for you to know the vehicle's working state. Corresponding warning light will be on or flickering to indicate a malfunction somewhere in the parts monitored by the warning light system.

Some of the warning lights will be on shortly when the ignition switch is turned to the "ON" position, to carry out system self-checking, then the lights will go off. If certain warning light that should be working is not on,

please have it checked by your Chery Authorized Service Station. If some warning light is still on or flickering after the engine is started, please have the corresponding system checked by your Chery Authorized Service Station as soon as possible.

## Speedometer

Speedometer shows driving speed of the vehicle. You should drive according to the regulations on new vehicles in break-in period. (Unit: km/h)



## Odometer

The upper counter of the odometer records the total driving mileage; the lower one records short-distance mileage. And the last digit indicates the unit is 100 meters (tenth of one kilometer).

## Engine coolant temperature gauge

The gauge indicates the engine coolant temperature when the ignition switch is on “2” position.

The needle should within the normal range while driving normally. The needle maybe drift off the normal range if the outside temperature is very high and engine is loaded heavily. In spite of this, you can still drive normally if the coolant warning light is not on. But you must turn off the engine if the coolant warning light is on, and have cooling system checked

as soon as possible.

! Notice: When the needle gets into the red zone, it shows that the engine maybe successive hot. You should pull your vehicle up in order to cool the engine, and then have coolant level checked immediately.

H: Hot  
C: Cold



## Fuel gauge

The gauge indicates the level of the remaining fuel in the tank. The gauge will not show fuel level when the

ignition is not on. After filling the fuel tank, the fuel gauge reading will get into the new level slowly, when the ignition switch is on. The needle would not remain at the same point when braking, accelerating or steering, which is caused by fuel vibration in fuel tank.

Capacity of fuel tank: 55 liters



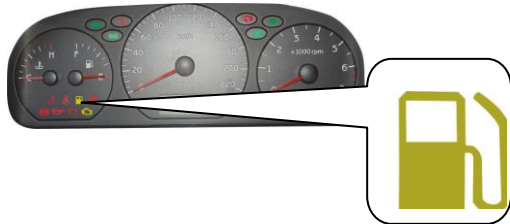
F: Full  
E: Empty

# Instruments and Controls

## Fuel warning light

This light comes on when the fuel in the tank becomes nearly empty. It will come on if the remaining fuel is no more than 10 liters in the tank. When this happens, the fuel tank needs to be refilled as soon as possible.

! Notice: If the fuel approaches empty, catalytic converter and fuel system will not work properly; therefore, fill the fuel tank as soon as possible when the fuel warning light comes on.



## Door Open Warning Light

This light remains on until all the doors are completely closed. Please check if all the doors are closed properly once the light comes on.



## Engine malfunction indicator light



The light will come on when the ignition switch is turned on, and the light will go off after seconds.

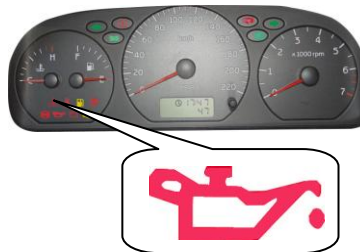
If the light comes on, it indicates a malfunction somewhere in the engine. When this happens, you can still drive for a short time, because the electric injection system switches to the

emergency working procedure. Nevertheless, you should contact with Chery Authorized Service Station for troubleshooting immediately. Engine Malfunction Indicator Light may comes on briefly and then goes out, which is normal.

### ! Notice

If Engine Malfunction Indicator Light stays on for a long time, it indicates a malfunction somewhere; you should contact your Chery Authorized Service Station for troubleshooting.

### Low Oil Pressure Warning Light



The light will come on with ignition on; it will go off after the engine being started. If the light flickers or stays on while you are driving, you should check the oil level immediately. Fill the recommended engine oil to normal oil level position promptly, if the level is lower than regulated minimum value. Please have the lubricating system checked by your nearest Chery Authorized Service Station,

if the oil level is normal.

### ! Notice

If oil pressure warning light remains on, it indicates malfunction. You should check it to see whether or not it is lack of oil. Please refuel if necessary; if the oil is normal, have the vehicle checked by the nearest Chery Authorized Service Station.

## Brake system warning lamp



Brake system warning lamp will be on if you pull hand brake with the ignition on; the light will be off if you release hand brake.

Release hand brake to the full before driving. If the warning light is still on after you fully release hand brake, it indicates that brake fluid is in badly need to be added. At that time, you should:

- Stop the car immediately.
- Check brake fluid level. If necessary, add Chery recommended brake fluid, and let the level between “MAX” and “MIN” lines.

If you are sure that the brake works normally and braking system is safe enough, have your vehicle checked by the nearest Chery Authorized Service Station.

If you find that brake fluid leaks and warning light is always on, or the

brake can not work normally, please contact Chery Authorized Service Station for assistance in time.

### ! Notice

Turn ignition on and pull hand brake. If the brake system warning light is not on, it indicates something is wrong with the system. You should check the electric bulb to see if it is of malfunction. If the bulb is normal, you should check the brake system. It indicates brake fluid level is low if the brake fluid warning light is always on, which will influence braking performance. You should decelerate gradually and stop the car to check the vehicle as follows:

1. Check the brake fluid tank. If the level is too low, add the appointed brake fluid.
2. Check the brake to see whether or

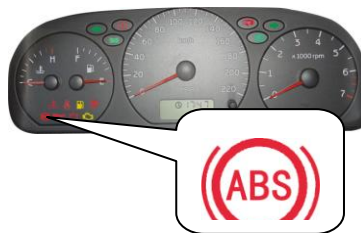
not it is in good condition.

3. You should drive cautiously and slowly to Chery Authorized Service Station for inspection, if the brake is normal.
4. Contact Chery Authorized Service Station as soon as possible, if the warning light is always on and the brake is abnormal, or brake fluid leaks.
5. Braking distance, braking force and pedal travel will be enlarged, if the brake fluid level is too low.

### ABS warning light

ABS warning light will come on and

then go off after seconds when the ignition is on.



If the light is not on with the ignition on, or it is always on, please contact Chery Authorized Service Station for assistance.

If the light is on while driving, it warns that there is a problem somewhere in ABS system. But the brake system can still operates normally. In spite of this

you should have the brake system checked by the nearest Chery Authorized Service Station as soon as possible.

### Generator warning light

It indicates that the battery is discharging, if the generator warning light is on.

The warning light will be on with ignition on; the light should be off after the engine is started.

If the light is on while driving, you should:

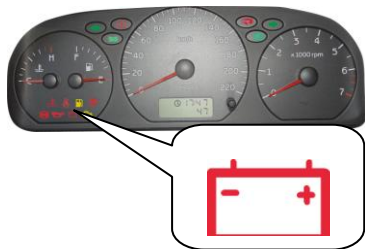
- Park the car on the roadside.
- Check the generator belt to see whether or not it is loose or cracked.
- If the belt is normal, there may be something wrong somewhere in the charging system. you should have the system checked by the nearest Chery

# Instruments and Controls

Authorized Service Station as soon as possible.

## ! Notice

The generator may be overheated if the generator belt is too loose, causing generator damage. So you should have the generator belt checked frequently.



## Safety belt warning light



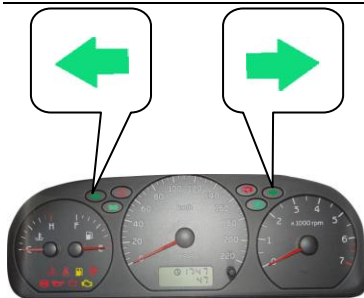
When the ignition is in position “2”, safety belt warning light will be on, if the driver does not wear the seat belt securely.

## Safety airbag warning light

It shows airbag system is normal if the light comes on and then goes off after seconds when the ignition is on. If the light is not on or the light keeps flickering or stays on long, there must be wrong with the airbag system. You should have your vehicle checked by Chery Authorized Service Station as soon as possible.

## Turn signal warning light/danger warning light





After the turn signal warning light or danger warning light switch has been turned on, if the indicator flickers, it indicates turn signal light or danger warning light works. If the flicker frequency is quite short, it indicates that there is a problem somewhere in the electric bulb of turn signal light.

! Notice

If the bulb is damaged, replace it as soon as possible in order to avoid accident. Please check the fuse and bulb to see whether or not they are burned out, if you send out turn signal,

but the green arrow is not on.

### High beam indicator light

For high beams, turn the headlamp on, the high beam indicator will come on then.



### Front fog light/rear fog light switch

Position 1: turn on front fog light.

Position 2: turn on both front fog light and rear fog light, or only turn on the rear fog light.

When the switch is in position 2, the indicator light will be on.

After the ignition is turned on, front fog light can work only if the parking light is on. It can work simultaneously with the high-low beam headlights. The rear fog lamp can work simultaneously only with the front fog lamp.

You are allowed to use the rear fog lamp, only if they are needed when the visibility is very poor, for the rear fog light is very dazzling. (Visibility is within 50m)



## ! Notice

The battery will become flat, if you turn on the light after the engine is off. Low beam of headlight is not symmetrical so as to broaden your field of vision. In left-side driving countries, you should put a black cover on 15 degree division of headlight glass.

## Turn signal lamp switch

Turn signal can work only if the ignition is turned on.

Move the switch upward, if you want to send out right turn signal.

Move the switch downward, if you want to send out left turn signal.

After turning is performed, the switch should return to its normal position, and turn off the turn signal light.

While changing the vehicle lane, move the switch partly (do not reach the bottom line); hold it firmly, the switch will return to its normal position after you release it.



## Headlight switch

The headlight will come on, only if the ignition is turned on. Move the lever once; the fog light will be on. Move the lever twice; the headlight for high beam will come on. That is to say, you can adjust the high-low beams through the adjustable lever.




## High beam switch

After the headlight for high beams comes on, move the lever towards the dashboard direction if you want to turn the headlight for high beam on. At the same time, headlight for high beam indicator light will be on.

Recover the lever to its original position; the headlight for low beam will come on.

! Notice

At that time, the light switch should be always in “” position.



## Meeting lamp switch

Move the operating lever towards the steering wheel. Let the high beam headlight come on, then release the lever. After releasing, the level will return to its normal position. The high beam headlight is still on, if you have not released the lever yet.

Be sure to comply with relevant traffic regulations, while you use the above-mentioned turn signal light and illumination equipments.



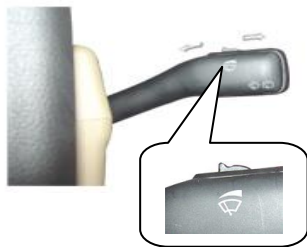
## Windshield wiper switch



## Instruments and Controls

The wiper has 4 gears, from top to bottom; there are automatic updrift, automatic downshift, offdrift and intervalshift.

From left to right, interval control of wiper has 4 gears; the wiping time interval of every gear will be prolonged gradually.



### ! Notice

Damaged wiper blade cannot work normally. It will block your vision. So you should replace it immediately. Do not operate the wipers if the

windshield is dry. It may scratch the glass and will result in wiper blade wear too early.

### Windshield washer switch

Turn ignition on and move the lever towards steering wheel direction, and fluid of the washer will squirt on the windshield. If you pull the lever for a very short time, fluid of washer will squirt on the windshield first, then the wiper will stop after running for several turns. If you hold the lever firmly, windshield wiper will continue to work until you release the lever. The wiper stops working automatically.



### ! Notice

If there is no water, rear windshield will scratch surface of the glass, resulting in wiper blade wear too early, hindering front field of vision. Please do not use windshield wiper, if the windshield is dry.

## Headlight beam adjustment switch

Turn on the low beam headlight, adjust the light beam range to see clear the front way.

Night adjustment switch is used to adjust the light intensity of the instrument panel.



## Danger warning light switch

Press the danger warning light switch on the dashboard, then you can turn the danger warning light on, all the turn signal lights will come on simultaneously. Press it again, these lights will be off. No matter whether or not the ignition is on, the danger warning light can be operated. You should warn the other drivers while emergent braking or the traffic being blocked by means of using danger warning light. Of course, you should avoid parking on the traffic lane as possible as you can.



## Rear Window Defroster Switch



To defog or defrost the rear window, you should push the switch with ignition in the "2" position.

## Instruments and Controls

An indicator light will illuminate to indicate the defroster is operating. Push the switch once again to turn the defroster off.

### ! Notice

The thin heater wires is on the inside of the rear window, if it is damaged, it will lose defroster function, therefore, be careful not to scratch or damage the heater wires while cleaning the inside surface of rear window, do not use sharp tools or corrosive detergent. Defroster will consume much more power, causing the battery to discharge, so do not use defroster while the vehicle is started or the engine does not work yet. Make sure you turn the defroster off when the window is

clear. When it snows, wipe snow off the window first, then turn on the rear window defroster, for the defroster is not designed for melting snow.

### Digital clock



The digital clock indicates the time with ignition on. While you want to reset the time, you can push corresponding button on the digital clock: Push the button 4 seconds, then

the hour digital will flicker frequently. The digital will increase one hour every time you depress the button. After reset the hour, wait 5 seconds; the Minute digital will flicker automatically. The digital will increase one minute every time you depress the button.

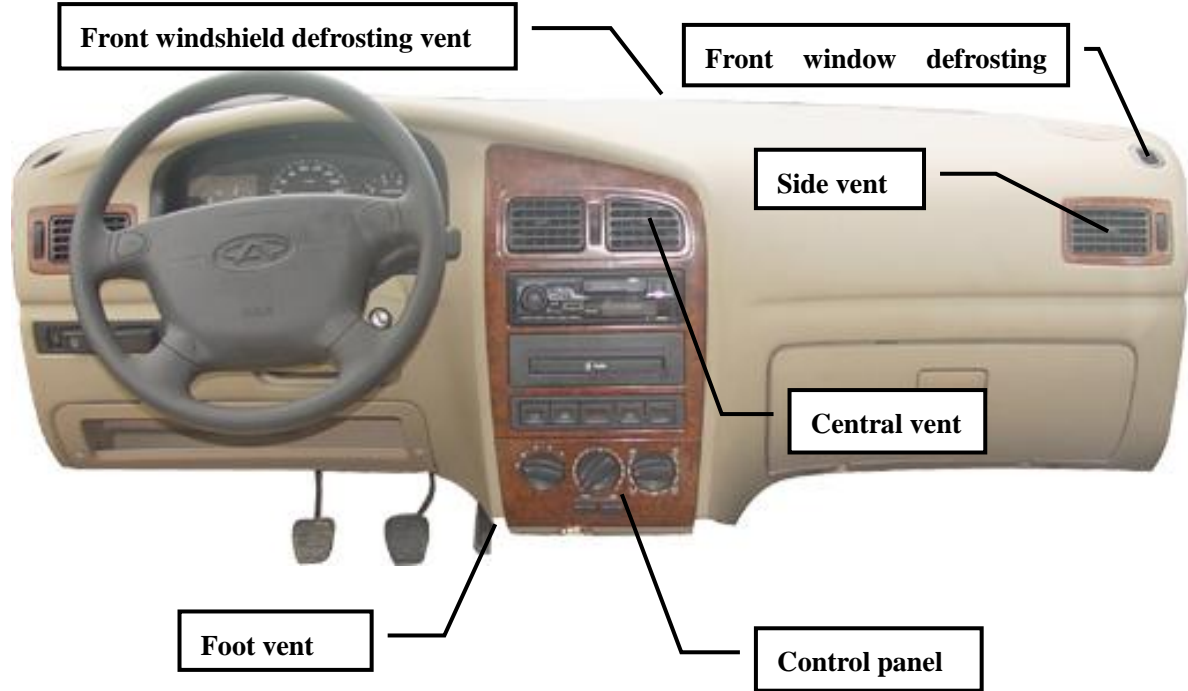
After adjustment, wait several seconds; the digital display will not flicker any longer, it shows that time is set properly.

### ! Notice

After battery is disconnected or fuse is replaced, time should be reset once again.

# **Chapter 6 Ventilation System and Air Conditioning System**

## Ventilation System and Air Conditioning System





## Ventilation System and Air Conditioning System



# Ventilation System and Air Conditioning System

## Control panel

1. Airblower switch
2. Temperature control switch
3. Airflow distribution switch
4. A/C switch
5. Internal circulation switches

## Ventilation and warm air

A/C system adjusts temperature by means of mixing cold and warm air; furthermore, temperature remains the former state at any speed.

Airflow speed is decided by the air-blower. If necessary, you can turn

on the air-blower.

## Central vent

Air after adjustment can flow in the vehicle through two central vents; you can change direction of airflow through changing the angle of in-take grille.

Knurl wheel 1 turn upward- vent is open

Knurl wheel 1 turn downward- vent is closed

Knurl wheel 2 Turn to left- airflow is towards left

Knurl wheel 2 Turn to right- airflow is towards right



## Bypass vent

Air after adjustment can flow in the vehicle through two bypass vents.

# Ventilation System and Air Conditioning System



## Front wiper defroster /defogger vent

It can lead cold and warm air to front windscreen through this vent. It can get rid of moisture of windscreen.



## Front window defroster/defogger vent



It can lead cold and warm air to

side window through this vent; it can get rid of moisture on the glass.

## Temperature control switch

You can adjust the temperature of out-flow air stepless through temperature control switch. When cold-producing system is working, turn switch to the left if you want to increase refrigeration; turn switch to the right if you want to decrease refrigeration.

To the right – The temperature is going up.

To the left – The temperature is dropping.

# Ventilation System and Air Conditioning System



## Airblower switch

Airblower switch has airblower speed under control (There are 4 gears in all), turn the switch in “0” position if you want to turn off the airblower. You can make use of air blower to adjust the windspeed. Turn on the airblower

while driving, if you want to feel more comfortable.



## Airflow distribution switch



Airflow distribution switch is used to select direction of airflow.

There are 4 positions on this switch:

Panel

Bi-level

Floor

Windshield

# Ventilation System and Air Conditioning System

## Internal circulation switch

You can push this switch (the indicator is on), in order to avoid waste gas or steam of outside world flowing into the vehicle in dusty environment, or if you want to cool or heat the inside atmosphere promptly.



**! Notice:**

You'd better use internal circulation mode in a short time, for successive using internal circulation mode will make inside vehicle sweltering and make the vehicle window atomizing.

## A/C switch

You can press the “A/C” button to turn on or turn off the air conditioning. Start the engine; turn the airblower switch to select suitable fan speed, and turn on the air conditioning. The indicator light will illuminate to show that the A/C has been turned on. To turn the air conditioning off, press the button again. A/C compressor will not work while the airblower is turned off.



**! Notice:**

Turn A/C on will make the engine overheating while your vehicle is caught in traffic jam or your vehicle is climbing long slope. Turn A/C off if the engine is overheating, according to the water temperature gauge.

**Panel** (🌀)

Air flows out mainly from the instrument panel vents.

# Ventilation System and Air Conditioning System



## Bi-level (👤)

Air flows out from both the floor vent and the instrument panel vents.



## Floor (👤)

Air flows out mainly from the floor vents.



## Windshield (👤)

Air flows out mainly from front windshield defroster vent and front window defogger vent.



## A/C system

Ventilation, warm air and cold-producing components form a control system. This system provides you maximum comfortableness all the time during one year. (Under any cold weather condition and ambient temperature condition).

Cold-producing unit of A/C system can cool the atmosphere; it can get rid of moisture and dust.

### The strongest refrigeration

To cool off your Chery after it has been exposed in the sun. Make the windows open for a few minutes, which vents the hot air.

# Ventilation System and Air Conditioning System

A/C switch: Press button of A/C

Internal circulation switch: Press button of (↻)

Airflow distribution switch: (↺)

Temperature control switch: Turn to the end counter clock-wise (blue)

Airblower switch: Put on gear 4



## Normal refrigeration

Normal refrigeration while long-distance driving or driving at high speed.

A/C switch: On

Airflow distribution switch: (↺)  
or (↻)

Temperature control switch: Turn the switch to requested position

Airblower switch: at will



## The strongest heating

A/C switch: Closed

Internal circulation switch: Press the button on (↻)

Airflow distribution switch: (↻)

Temperature control switch: Turn to the end clock-wise (red)

Airblower switch: Put on gear 4



! Notice: Do not use “the strongest heating” for a long time, in order to avoid inside air becoming foul and window having fog. Turn off the internal circulation if the windows have fog or moisture. “Compulsive heating” is only used for rapid heating, then turn to “normal heating” as soon as possible.

## Normal heating

A/C switch: Closed

Airflow distribution switch: (↺)  
or (↻)

Adjust button between (↺) and (↻) if there is steam on the



# Ventilation System and Air Conditioning System

windshield glass.


Temperature control switch: Turn to desired heating position

Airblower switch: Put on gear 1 or gear 2



## Defroster

A/C switch: On


Airflow distribution switch: (  )

Temperature control switch: If necessary, turn to heating position

Airblower switch: Put on gear 2 or gear 3



### ! Notice:


It will improve the defog effect if you turn A/C on. The windshield could fog up because of the difference in air temperature inside and outside of the windshield, it will affect your vision; therefore, do not use (  ), if the weather is very damp.

## Panel and floor

They are used just transitionally, when the outside temperature of vehicle is low and there is no sunshine. Warm air flows into the bottom zone of vehicle and cold and normal air flows into the upper space of vehicle, if you adjust

the temperature control switch between cold (blue) and warm (red).

A/C switch: ON/OFF

Air distribution switch: (  )


Temperature control switch: Turn the switch to the requested position

Fan switch: at will

## Ventilation

Outside air flows in through central vent and both sides vents.

A/C switch: OFF

Air distribution switch: (  ) or tune-up to other position accordingly.

Temperature control switch: Turn the switch to the end

Airblower switch: at will



## Operating tips

In order to cool off your Chery after it has been exposed in the sun, you should open the window before turning on the air conditioning system.

Refrigeration of cooling system may be not enough because of frequent parking and braking, while you drive in heavy traffic area. If you have not used the air conditioning system for one month or more than one month, you should turn on the air conditioning at least once a month run it for minutes with the engine idling to maintain the lubrication and sealability of the compressor and prolong the service

life of the whole system.

The compressor of air conditioning does not work when the airblower is turned off.

Make sure the air intake grilles in front of the windshield are not blocked by ice, snow and leaves, which ensures heating and ventilation system work normally.

It is normal that there could be condensed water from the drainpipe of evaporator when the ambient temperature and humidity are high. We recommend that you should keep away from the cold air.

## Economic Operation of air conditioning system

While refrigerating, the compressor of

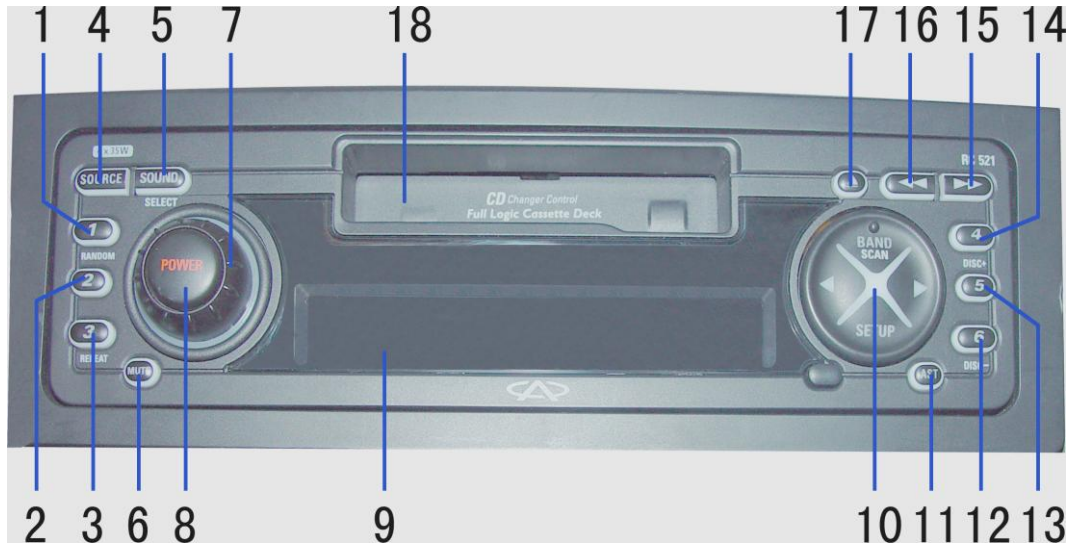
air conditioning consumes power of the engine, causing greater fuel consumption. In order to minimize the running time of air conditioning system, you should pay attention to the following matters:

1. To cool off your Chery after it has been exposed in the sun, you should open the windows or doors for a short time, which vents the hot air and allow the air conditioning to cool the interior more quickly.
2. Do not turn on the air conditioning system while driving with the window open.

## **Chapter 7 Audio System**

### **VDO Audio System**

## VDO Audio Panel Function



## Audio System

<b>1. Preset key 1</b> <b>RANDOM :</b> CD random play/stop	<b>8. Power switch</b>	<b>13. Preset key 5</b>
<b>2. Preset key 2</b>	<b>9. Display</b>	<b>14. Preset key 4</b> <b>DISC+ :</b> Select disc backward
<b>3. Preset key 3</b> <b>REPEAT:</b> CD repeat/stop	<b>10.BAND:</b> Wave band <b>SCAN :</b> Radio frequency scan/CD programme scan <b>◀▶ :</b> High and Low Terminal Searching (Play)	<b>15.▶▶FF</b>
<b>4.SOURCE:</b> Sound source	<b>Previous/Next Programme</b> (CD box)	<b>16.◀◀REW</b>
<b>5.SOUND</b> short-time press: Sound effect mode <b>SELECT :</b> Long-time press: Audio setting mode	<b>Music searching system</b>	<b>17.▲Eject the cassette tape</b>  Short-time press : Reverse cassette Long-time press: Eject the cassette tape
<b>6.MUTE:</b>	<b>11.AST:</b> Automatic store	<b>18. Cassette</b>
<b>7. Volume</b>	<b>12. Preset key 6</b> <b>DISC-:</b> Select disc forward	

## Audio system

### On/off

Push POWER key to turn the audio system on or off.

### Volume

Use this knob adjust the volume.

Warning: Make sure that you can still hear the traffic signals (Steam whistle or alarm whistle...)

### Mute

Press MUTE key if you want to make audio system mute or cancel mute.

### Sound effect

SOUND (sound effect) key can make you satisfied, no matter what kind of

music you are listening to, such as jazz, pop music, vocal, classical or rock music.

Short-time press SOUND key, if you want to select a kind of sound effect preset by the manufacturer.

—BASS-TREB: You can set bass or treble by yourself.

—JAZZ:

—VOCAL:

—POP:

—CLASSIC:

—ROCK:

### Audio setting

Press SOUND key at least 2 seconds, if you want to enter audio setting mode.

Press SOUND key or SELECT key to

select sound effect mode you like.

—BASS (in BASS-TREB mode)

—TREBLE (in BASS-TREB mode)

—BALANCE: Volume balance

—FADER (front and rear horn control)

—LOUDNESS (off, bass, alto, treble, in BASS-TREB mode)

Turn the knob, if you want to adjust the selected sound effect mode. The display screen will return to the previous mode after 5 seconds.

### Sound source

Press SOURCE key, if you want to select the sound source:

—Radio

—Cassette

—CD (if connected)

# Audio System

## Radio

### Wave band

Press BAND key, if you want to select the wave band you like.

FM1→FM2→FM3→FMAST→FMAZ→MW(AM)1→MW(AM)2→MW(AM)AST→LW.

### ! Notice

You can cancel wave band of MW(AM) or LW out, if you do not like.

You can cancel them out accordingly, if you do not want too much preset radio station of FM or MW(AW)

### Automatic seeking

In the seek mode, the radio finds and

plays the next station up or down the station band.

### Automatic seeking

To seek a station, push the “^” or “\” side of “TUNE/SEEK” until you hear a beep.

The flexibility of seeking (FM only)

Flexibility of seeking can be adjusted, see the item “SRCH” of “SETTING” for reference.

### Frequency scan

The local radio station will play present wave band for 10 seconds.

· Press SCAN key at least 2 seconds, if you want to turn on/off the frequency scan features.

Manual tuning (if you have already

known the frequency of desired radio station)

· If you want to enter manual tune-up mode: see item “TUN” of “SETTING” for reference, set it as “MAN”. Let the radio in manual tuning mode, until you come to “AUTO” mode.

### To preset a station

Store the radio station using manual preset key

Preset keys (from 1 to 6) are used to preset and tune in radio station.

Tune in the desired station

· Push and hold down the button at least 2 seconds, for the station you want, this will set the station to the preset key.

While setting FM radio station, corresponding RDS information and AF mode (on/off) are set together.

### **Listen to the preset station**

Push the button (from 1 to 6); you can listen to the preset station you want.

### **Automatic station storing**

You can store 6 strongest FM radio stations on wave band of FM AST or wave band of MW (AM) AST. The stations which are stored in wave band of FM AST or MW (AM) AST previously, will be covered, if you use automatic station storing performance.

Push AST key to enter automatic storing, then

—You hear a beep, and then mute.

—After storing, you hear a beep once

again.

—You can begin to listen to the radio station set in preset key 1.

—Sometimes, perhaps, you cannot find exactly 6 stations.

## **Cassette player**

You can turn on the cassette player by inserting a cassette tape.

If the cassette tape is already in the player, press SOURCE key to select the cassette as sound source. Let it go.

### **Changing side**

·Push ▲ key to change side.

—One side of the tape finishes, it will change to other side automatically.

### **REW/FF (Rewind/Fast forward)**

·Press ►► to fast forward a cassette tape:

·Press ◀◀ to rewind a tape.

—If the radio was previously on, it will come on again. If the tape rewind to the end, it will play again.

### **Music searching system-previous/next**

Select how many songs you want to ignore, from the current programme.

·Press ◀key for previous

·Press ►key for next

—It is mute until you get desired programme. It can only recognize programme at least having 3 seconds intervals.

### **Eject the cassette**



# Audio System

·Press ▲key to eject a cassette.

## Caring for your cassette tapes

- Only use good-quality cassette with a total playing time 60 minutes or 90 minutes.
- Store cassettes in their cases, in order to keep dirt and dust away from them, in order to avoid cassettes being got stuck or tangled in the cassette player.
- Do not let the cassette being heated, being shined by the sun directly and being affected with damp.
- A dirty tape head should be cleaned by a cleaning tape

regularly (once or twice every month).

## CD (Compact Disc)

### CD player (CD box, if connected)

It has VDO CD box.

—CDC 401 A or CDC1001 A.

Press SOURCE key, if you want to select CD (CD changer as the sound source:

Press DISC+or DISC-key to select desired CD.

—The compact disc player will play the next track automatically. If there is empty disc position, it will skip over it.

### Previous/next programme

·Press ◀key or▶key, if you want to select desired programmes.

—It begins to play from the selected programme.

### REW/FF

·Press ◀key or▶key to fast forward or rewind the disc.

—It will recover to normal play if you release it.

### Programme scan

This feature makes you scan every programme several seconds.

Press SCAN key to activate or turn off the scan features.

### Random playing

Press and hold RANDOM key at least 2 seconds, in order to activate or turn off random playing.

### Repeat feature

Press and hold RANDOM key at least 2 seconds, in order to activate or turn off random playing.

### Eject the disc

Press ▲key, if you want to eject a compact disc.

### Clock setting

Press SETUP key at least 2 seconds, if you want to enter SETUP menu.

·Press ►key to “TIME” item.

Press SETUP key, if you want to select “12H” or “24H”

·Press ►key to select hour digital

—Display shows that:“0000” (24

hours mode) or “AM 12:00” (12 hours mode)

—Hour digital begins to flicker.

Press SETUP key, if you want to adjust the hour.

·Press ►key to select minute digital

—Minute digital begins to flicker.

· Press SETUP key, if you want to adjust the minute.

The clock begins to work from the adjusted time.

Press SETUP key at least 2 seconds, if you want to log off SETUP menu.

—If clock mode is activated, the display will show the time, after any key operates 10 seconds setting.

Setting

You may change the original setting of the player if you like.

Press SETUP key, if you want to enter SETUP

Press ◀key ▶key, if you want to select item you want to change

Press SETUP key, if you want to change the setting

Press SETUP key at least 2 seconds, if you want to log off SETUP menu.

The player will log off SETUP mode automatically, approximate 1 minute after your last operation.

## Audio System for Songs (Optional)

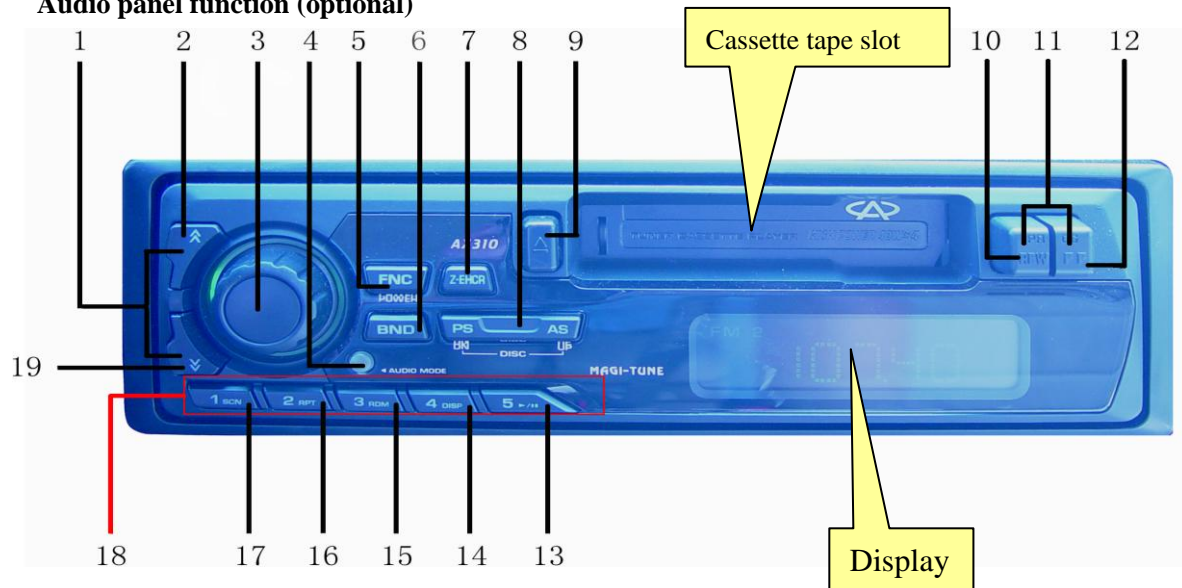
◀or▶	[Setting]	
RADIO	[EUROPE, LATAM AMERICA, ASIA]	Select the tuning according to European, Latin American, American and Asian standards.
FM	[6, 12, 18]	Select quantity of preset station, in FMA mode.
MW (AM)	[ON, OFF]	Select 'OFF' if you want to turn MW (AM) off.
MW (AM)	[6, 12]	Select quantity of preset stations in MW (AM) mode.
TUN	[AUTO, MAN]	Select automatic tuning or manual tuning.
SRCH	[LO, DX]	Select 'LO' if you want to search for frequency of only powerful station while automatically tuning.
TAPE	[-2, -1, 0, +1, +2]	Cassette player volume has something with the tuning.
CDC	[-2, -1, 0, +1, +2]	CD player volume has something with the tuning.
BEEP	[-2, -1, 0, +1, +2]	Select and confirm volume of "beep".
TIME	[OFF, 12H, 24H]	Select desired clock mode.

Note: See the user's manual for reference.

## **Audio System for Songs (Optional)**

## Audio System for Songs (Optional)

### Audio panel function (optional)



## Audio System for Songs (Optional)

- |   |                                    |  |
|---|------------------------------------|--|
| <b>1.Up and down (▲and▼) key</b>                  | <b>station) key DISC key</b>       | <b>16.RPT(Repeat) key</b>                        |
| <b>2. Function key</b>                            | <b>9. (▲) Exit key</b>             | <b>17.SCN ( Beginning or programme scan) key</b> |
| <b>3. Knob</b>                                    | <b>10.REW (◀◀Rewind)</b>           | <b>18. Preset key</b>                            |
| <b>4.A-M (Frequency mode) key</b>                 | <b>11. PROG</b>                    | <b>19. Function key 2</b>                        |
| <b>5.FNC (POWER key</b>                           | <b>12.FF (▶▶Fast Forward)</b>      |  |
| <b>6.BAND(Tuning mode)key</b>                     | <b>13.Play/ Pause (▶ / ■■) key</b> |  |
| <b>7.Z-EHCR (Z-Enhancer)</b>                      | <b>14.DISP (Display selector)</b>  |  |
| <b>8.PS/AS ( Preset station scan/Auto-storing</b> | <b>15.RDM (Random play) key</b>    |  |

## Audio System for Songs (Optional)

### Performance

Lock FF/REW

Holographic liquid crystal display

Permalloy double crack cassette head

Monitor mode

DIN case

### Tuning

Electric quartz locks PLL tuning

### Audio frequency

AM/FM wave band-: one AM wave

Electric frequency control

band, four FM wave bands.

20 FM radio station/5 AM radio station

touching key memory

(VOL/BASS/TREB/BAL/FADE)

Searching for tuning towards high

4-track balance control

frequency/low frequency

Z-enhancer with 3-mode selector

Preset radio station scan (PS)

160W ( 40W\*4 ) maximum power  
output

Automatic radio station store (AS)

FM reception system

### Case

DIN case with ISO supporting capacity

Dimensions:

178mm height\*50mm width\*152mm  
thickness

### Cassette player

Auto-reverse

### Overall

Night illumination

Digital quartz clock

Active antennal starting trigger

### Caring for your cassette player and tape

1. Tighten the tape before you insert it,  
for loose one may hinder the operation.

You should pay special attention while using C-90 or prerecording cassettes.

2. Please use cassettes with a total playing time of C-30 to C-90. Avoid using cassettes with a total playing time longer than C-120. The tape used in these cassettes is thin and could get stuck or tangled in the cassettes player.

3. Please clean the tape head by using a cleaning tape, at regular intervals, keep anything magnetic or hard away from the tape head.

4. Do not put oil in the mechanism.

5. Do not leave a cassette in the player if you are not listening to it, especially if it is very hot or cold outside, for the cassette is very easy to be damaged.

### Operation method

#### Basic operation

! Notice:

Be careful to tune-up the volume, for engine noise will damage your ears, if the volume becomes maximum, while power supply gets through.

1. Press FNC of key 5.

! Notice:

Push POWER key for 1 second or more, if you want to turn the power supply off.

2. Press FNC of key 5, if you want to select operation mode. Every time you push, the mode is switched as follows:

Radio→cassette

Player→CD

Changer→radio

! Notice:

The operation mode will not be selected if you fail to connect the parts. "CASS" will appear if you fail to insert the cassette, "DISC" will appear if you fail to insert CD in CD changer.

3. Turn knob 3 to increase the volume of sounds clockwise; turn it counter clockwise to decrease the volume of sounds.

\* Volume from 0 (MIN) to 33 (MAX).

#### Frequency mode adjustment

Press A-M of key 4, if you want to select the adjustment mode, every time you press, mode is switched as follows:



## Audio System for Songs (Optional)

BASS→TREB→BAL→FAD-previous mode

### BASS adjustment

1. Press A-M of key 4, if you want to select “BASS”.
2. Turn knob 3 clockwise, if you want to increase the bass; turn it counter clockwise, if you want to decrease the bass.

! Notice:  
Factory default setting is “0”. (Range of adjustment is from -6 to +6)

3. After adjustment, press A-M of key 4 for several times, until it is in operational mode.

### TREB adjustment

1. Press A-M of key 4, if you want to select “TREB”.
2. Turn knob 3 to increase the TREB clockwise; Turn it counter clockwise to decrease TREB.

! Notice:  
Factory default setting is “0”. (Range of adjustment is from -6 to +6)

3. After adjustment, press A-M of key 4 for several times, until it is in functional mode

### BAL adjustment

1. Press A-M of key 4 to select “BAL”.
2. Turn knob 3 clockwise to strengthen sound of the right loudspeaker; turn it counter clockwise to

strengthen sound of the left loudspeaker.

! Notice:  
Factory default setting is “0”. (Range of adjustment is from L9 to R9)

2. After adjustment, press A-M of key 4 until it is in operational mode.

### FADE adjustment

1. Press A-M of key 4 to select “FAD”.
2. Turn knob 3 clockwise to strengthen sound of front speaker; turn it counter clockwise to strengthen sound of rear speaker.

! Notice:  
Factory default setting is “0”. (Range of adjustment is from F9 to R9)

3. After adjustment, press A-M of key 4 until it is in operational mode.

### Z-enhancer setting

This device is equipped with 3 kinds tone effects stored in the memory, select whichever you like.

**! Notice:**  
Factory default setting is “Z-EHCR OFF”.

Every time you press Z-EHCR of key 7, tone effect changes according to the following orders:

“Z-ENHANCER 1”→“Z-ENHANCER 2”  
→“Z-ENHANCER 3”

→“Z-ENHANCER OFF”

→“Z-ENHANCER 1”.....

Z-ENHANCER 1: Bass enhanced

Z-ENHANCER 2 : High pitch enhanced

Z-ENHANCER 3: Both enhanced

Z-ENHANCER OFF: No sound effect

### Change display

Press BAND of key 6, at the same time, press DISP of key 14, if you want to enter clock display mode.

Main display→Clock display→Main display

### Clock setting

Press BAND of key 6, at the same time, press DISP of key 14 to enter clock

display mode.

1. Press BAND of key 6, at the same time, press DISP of key 14 for at least 2 seconds, clock editing mode is started. It will flicker for you to edit.
2. Use up (hour) and down (minute) of key 1, if you want to move between hour and minute.
3. Press BAND of key 6, if you want to store clock setting.

**! Notice**  
The clock setting will be cancelled out if you select other operation mode, before you complete the above-mentioned operation; the clock will turn to 1:00, if you take the battery out for check and repair, at this time, please set the clock once again.

## Audio System for Songs (Optional)

### Cassette player operation

#### Insert cassette

You can turn on the cassette player by inserting a cassette tape. It plays automatically.

\*Auto-reverse mechanism starts, if one side of cassette is over, it play the other side automatically.

**! Notice:**

Insert the cassette to the slot completely.

#### Listen to inserted cassette

Press FUNC key 5 to select cassette player mode, it begins to play automatically.

#### Ejecting cassette

Press stop key 9, and the cassette will be ejected.

\*The audio system will in radio mode 4 seconds after cassette being ejected.

#### REW/FF

Use FF of key 12 and REW key of 10

▶▶: Fast forward a cassette tape.

◀◀: Rewind a cassette tape

You can listen to the radio, during the process of REW/FF or searching operation.

#### Change the other side

Press PROG of key 11, FF of key 12 and REW of key 10 simultaneously; the cassette player will reverse to the other side of cassette automatically.

### Radio reception

#### FM reception

In order to improve the reception effect, the tuning contains signal stimulous stereophonic sound and multichannel noise reducer return circuit.

#### Listen to radio

1.Press POWER of key 5 to select radio mode. The radio is turned on.

2.First BAND of key 6, then select FM1, FM2, FM3, FM4 or AM, if you want to tune desired preset radio station, every time you press BAND key, wave band changes as follows:

FM1→FM2→FM3→FM4→AM→FM1

3. Use corresponding preset key 18, if you want to select desired radio station.

### Searching for tuning

1. Press BAND key 6 to select desired wave band.
2. Press up or down key 1 for searching towards high frequency or low frequency. Tuning will stop automatically if you find a station.

### Manual tuning

1. Press BAND key to select desired wave band.
2. Press VAND key 2 seconds or more "MENU" will appear on the display, manual tuning mode is

selected.

3. Use up or down key 1 to select desired high or low frequency.

### Preset radio station

You can preset 25 radio stations in all, wave band of FM1, FM2, FM3, FM4 or AM, each has 5.

! Notice:

The previous stored station memory will be canceled out if you preset station once again.

### Manual preset station

1. Press VAND key 6, select wave band of your desired station.
2. Use up or down key 1 to tune-up the station you desire to preset.

3. Press corresponding preset key 18 for at least 2 seconds; store the station in the memory.
1. Press BAND key 6, select wave band of station you want to store. Press and hold AS key 8 for 2 seconds or more. Station with good reception will be stored in 5 preset key 18 automatically (from 1 to 5).

! Notice:

If there are no 5 stations whose reception is good, previously stored stations on the remaining keys will not be canceled out.

### Preset scan (Preset station scan)

## Audio System for Songs (Optional)

Press PS key 8, preset memory number will flicker; stations will be tuned in at 7 seconds interval, accordingly. Press PS key again to cancel the preset scan mode out.

! Notice:

Auto-stored mode is set if you press PS key for 2 seconds or more.

### CD changer mode operation method

#### Audio mode

1. Press POWER of key 5 to select CD changer mode, CD player is turned on.

\*Press DISP of key 14, programme time will appear on the display.

Programme number → Programme time → Programme number

#### Stop (pause)

Press play/pause of key 13

Press play/pause of key 13 for recovery.

#### Selection of CD

Press disc key 8 of disc selection to select CD you want to play.

#### Programme selection (songs)

Up/down key 1

- : Play from next song.

⏮: Play from beginning of current programme. Press it again; CD will begin to play

from the previous song.

#### REW/FF

- : Fast forward

⏮: Rewind

\* Press up/down of key 1 one second or more to forwards or rewind the disc, it is 5 times faster than the common one, if you press it 1 seconds or more, it will be 30 times faster than the common one, if you press it 3 seconds or more.

#### Scan (Beginning of programme scan)

Push “SCN” of key 17, “SCN” will appear on the display, the compact disc

player will play the next track for 10 seconds. This process will be continued until you push the key again to turn off the scan feature.

\*It will begin to play after the current programme.

### **CD player scan**

Push “SCN” of key 17 for at least 2 seconds, “DISC” and “SCN” will appear on the display. The compact disc player will play 10 seconds the previous of all the programmes. This process will be continued until you push the key again to turn off the scan feature.

\* It will begin to play after the current

programme.

### **RPT (Repeat)**

Push “RPT” of key 16, “RPT” will appear on the display. This process will be continued until you push the button again to turn off the repeat feature.

### **CD repeat**

Push “RPT” of key 16 for at least 2 seconds, “DISC” and “RPT” will appear on the display, the repeat feature will automatically replay the current compact disc track. This

process will be continued until you push the button again to turn off the repeat feature.

### **Random**

Press RDM key 15, “RDM” will appear on the display; all the programmes will be random played. It will exit from random mode, if you press RDM of key 15 once again.

### **Specifications**

#### **FM tuning**

Frequency range: 87.9MHz to 107.9MHz

## Audio System for Songs (Optional)

Actual flexibility: 11dBf

8kHz (0+2/-7 dB)

\*50mm\*152mm

50dB non-noise flexibility: 17dBf

Alternation selection: 70dB

Stereophonic sound separation

(400Hz): 25dB

### Power amplifier

Maximum power output: 160W  
(40W\*4 way)

### Preset amplifier

Bass control (100Hz):  $\pm 6$  dB

Treble control (10 kHz):  $\pm 6$  dB

### AM tuning

Frequency range: 531 kHz to 1,602 kHz

Actual flexibility: 25uV

### Overall

Power voltage: 14.4V direct current  
(from 10.8V to 15.6V is permitted)

Power consumption: less than 10 A

Loudspeaker resistance:  $4 \Omega$  (from

10.8V to 15.6V is permitted)

weight: 1.3Kg

Dimensions : 178mm width

### Cassette player

Trembling degree (WRMS): 0.4%

Signal way separation degree (1 kHz):  
35dB

Signal-to-noise ratio: 120us (common):  
40 dB

Frequency response 125Hz (0  $\pm 3$ dB)

! Notice

This regulation is up to the EIA standard, we will not inform you separately, if the design and regulation are changed because of updating the products.

## Basic operation of record changer for 6 CD

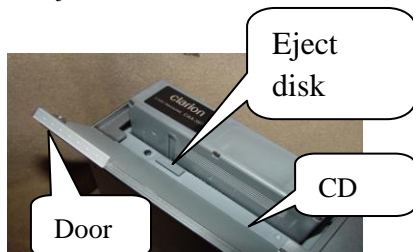
### 1. Take the box out

1.1 Open the door upward.

## Audio System for Songs (Optional)



1.2 Eject the CD from the box.



### 2. Insert CD

2.1 Buckle the releasing handle with finger, and pull the disc seat out.



2.2 Put CD in the slot with label side up.

2.3 Push the seat in until it is ok.

#### ! Notice:

If you make too strenuous efforts, CD seat may get out of the box. At this time, please press the delivery staff to make it ok. You should put even strength, and two edges of seat should match the box.

### 3. Take CD out

Pull the seat out, and take CD out

#### ! Notice

Do not touch the signal side with your finger, while taking CD out.

### Operating guide

1. For safety, insert a cassette tape or compact disc into the slot, after the vehicle parks securely. In order to avoid accident, vehicle inside volume should not exceed vehicle outside sound.
2. Clean the vehicle bodies with a soft, lint-free cloth. Do not use sand paper, benzene, diluent or alcohol. You can dampen the cloth with water, if the body is very dirty. And wipe it gently.



## Audio System for Songs (Optional)

3. The slot is very important for the player. The parts will be damaged if there is so much dirt in. So, you should be sure not to keep the player door open for a long time.

- When inside vehicle is cold, if you turn on the player soon after you turn on the heater, the moisture will get into your CD player. Your compact disc player cannot work normally. (moisture)

- Wipe the CD with a clean and soft cloth if moisture gets in. It will dry naturally after one hour, then the player can work normally again.

4. Be sure not to pull the cable and

wires while audio system is working, for it will damage the parts.

5. Keep direct sunlight, heater or other heating source away from the player.

### Specifications

Sample frequency: 44.1 kHz

Frequency response: 5Hz — 20kHz  
( $\pm 1$ dB)

Signal-to-noise ratio: 105dB (1kHz)

IHE.A

Trembling rate: less than minimum  
volume travel

Power supply: DC14.4V (10.8-15.6V)  
negative (-) connecting ground

Power consumption: less than 1A

Weight: 1.65Kg

### Use of CD

1. If inside vehicle is very cold, do not use CD player soon after you turn the heater on, for the moisture will get into your compact disc or optical parts of CD player, causing CD player cannot work normally. Please wipe the moisture off with soft and clean cloth, if there is moisture on CD surface. Stop it for one hour, and wait until it dries, then CD player can work normally.

2. Bumpy roads may make your compact disc player skip.

### ! Notice

Do not play any other discs, for this player is designed only for CD with disc mark.

1. Handle compact discs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
2. Wipe dirt and fingerprint off CD with a soft, lint-free cloth, wipe along middle of CD to the edge straightly.
3. A new disc may have rough edges. Remove the rough edges by pressing the side of a ball-point pen, for this kind disc cannot be used or it will skip over while playing.

### Caring for your compact disc player and discs

1. Do not put label on the CD surface; do not make marks with pencil or pen on the CD surface.
2. Do not clean a CD with any solvent, such as detergent, anti-static electricity sprayer or diluent.
3. Do not use CD with rough edges, deformation and being curled. It will cause malfunction or damaging to the player.
4. Keep CD away from direct sunshine or heating source.

### ! Notice

Do not use the protective paper of CD

or CD with stabilization apparatus. They may be pressed inside the mechanism and damage the CD player.

## Audio System for Songs (Optional)

### Error display

In order to protect the system, this player has self-check function. If there is malfunction, it will warn you by means of various error display. Please correct it accordingly to fix the breakdown.

Error display	Troubleshooting
Er2	It indicates that there is a malfunction of mechanism of mainframe or CD changer (such as, you cannot change discs or discs cannot pop out.) →Check the mainframe and CD changer.
Er3	It indicates that the adapter head cannot pick up signals, for the disc is scratched or there is something wrong with the mainframe or CD player. →Check the disc.
Er6	It indicates TOC of CD cannot be read, such as: The selected disc is inserted reversely.

### Trouble-shooting

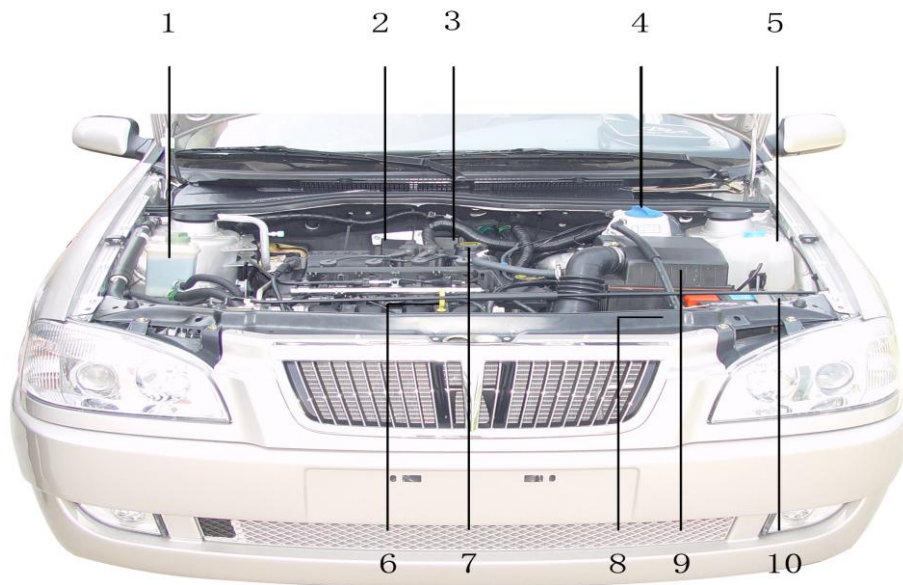
Phenomenon	Cause	Troubleshooting
Power supply malfunction (or there is no sound)	The fuse is blown out.	Replace the burnt fuse; use a new one of same amperage.
	There is something wrong with the wiring.	Check the connections of the wires.
Tone quality is poor.	Magnetic head is dirty.	Clean the magnetic head with cleaning tape.
There is no sound while operating the player.	There is connecting ground short circuit of the active antenna.	Turn off power supply of this player; disconnect all wires which connect the active antenna; put the power supply through, then connect all wires to the active antenna one by one. If there is still no sound, please check the last wire you connected.

## Audio System for Songs (Optional)

Phenomenon	Cause	Troubleshooting
No power supply	There is something wrong with the wiring.	Please check the wiring.
Disc box cannot be inserted.	There is something wrong with the disc box inserting method.	Insert it correctly.
	Disc box has already been inserted in the player.	Let it exit, and insert another one.
	Deformation of disc box	Please buy a new CAA-397 disc box.
“NO DISC” appears while searching programmes	The disc is inserted reversely.	See “CD inserting” for reference. Insert disc correctly once again.
	There is moisture or dirt on the disc.	Wipe moisture or dirt off.
Noise, skip	CD is too dirty.	Clean the disc.
	Deformation and severe damage of CD	Compare with other discs. If it is damaged, abandon it.
Disc box exits after being pushed in.	Failure to insert disc box to the seat.	See “CD inserting” for reference. Insert the seat correctly.

# **Chapter 8 Maintenance and Upkeep**

### Engine compartment



# Maintenance and Upkeep

1. Power steering liquid bank
2. Front bin relay box 1
3. Front bin relay box 2
4. Expansion tank
5. Washer fluid reservoir
6. Oil dip-stick
7. Oiling port cover
8. Fuse box
9. Air filter
10. Battery

## Maintaining & protective measures

When you perform maintenance by yourself, utmost care should be taken to prevent unnecessary personal injury or vehicle damage.

Here are a few precautions that you should be especially careful to observe:

- If the engine is successive hot, turn off the engine immediately, so as to make it cool, otherwise it is possible to damage the engine.
- Do not get under your vehicle with just the body jack supporting it.

Always use solid supports for safety, if it is necessary for you to be under the vehicle. In addition, somebody should be with you for assistance, in order to avoid any contingency.

- Do not allow smoke flame or anything may be cause sparks around the battery and fuel, in order to avoid any accident.
- While connecting battery cable, pay special attention to the poles. Do not connect positive cable to negative cable column or negative cable to positive cable column. Generally speaking, positive and negative poles are marked with “+” (positive) or “-” (negative)



distinctively.

- Be sure to maintain ignition cables, high-pressure cables and high load vehicle cables, otherwise it is easy to have possibility of fire.
- If you want to check underneath of engine hood while the engine is running, park the vehicle on level road surface; put transmission lever in neutral gear position, and parking brake the vehicle. Failure to do so will lead to unexpected accident for vehicle unexpectedly moves.
- Be sure that the ignition is off, furthermore, pull out the key before you work under the engine hood, in order to avoid unexpected

accident taking place, unless it is necessary for the ignition to be on.

When the engine is running, keep hands, clothing and anything ribbon-like from the moving fan and engine driving belts while you are working under the engine hood.

For these things may be wrapped in moving parts to hurt you or damage the vehicle. Remove watch, bracelet and ring.

### Safety attention

Cooling fan may be running at all times. Be careful in order to avoid personal injury while checking it. Cooling fan is controlled by ECU, so

it may be running suddenly. Be careful not to touch the running parts with the ignition on.

#### ! Notice:

Running engine will cause injury, scald or electrical shock. Be careful not to touch the hot parts, such as exhaust manifold.

### Checking list for the driver

Before driving, you should carry out safety maintenance and careful checks on reliability of vehicle operation, recommended checkings are introduced as follows:

Exterior

- Tire pressure and state (cold tire only).

# Maintenance and Upkeep

- Wheel nuts' degree of tightness
- Sensitivity of vehicle operation
- Check to see whether or not there is oil, coolant or fuel leaks.

## Interior

- Check to see if the steering system works normally or not; check to see if there is some difficulty in operating the steering wheel. (Steering wheel feels much more heavier while the engine is turned off than the engine is started.)
- Check the stroke of parking brake lever and reliability of parking brake.
- Check horn, windshield wiper and turn signal to see if they are in good condition.

- Check the instrument or warning light of the indicator.
- Check the fuel gauge, for confirmation of the amount of fuel in the fuel tank.
- Check the position of the rearview mirror.
- Check the door lock system.
- Check self stroke of clutch pedal, check the clutch pedal to see if it is in good condition.
- Check self stroke of brake pedal, check the brake pedal to see if it is in good condition. (You should step on the pedal much heavier while braking than starting the engine.)
- Check the safety belt for the driver to see, if it is in good condition.

## Engine compartment

- Check the engine oil level.
- Check the engine coolant level.
- Check the battery.
- Check the windshield wiper fluid level.
- Check brake fluid level.
- Check steering pump oil level.
- Check oil level of the clutch servo unit

## You should check the engine oil level by the following steps

It is a good idea to keep the engine oil level in proper range in order to ensure there are enough lubricating

oil for your vehicle engine. A certain amount of oil is consumed while the engine is running; therefore you should check the engine oil level at regular intervals. The vehicle should be on a level ground. After turning off the engine, and wait a few minutes for the oil to drain back into the oil pan. Pull out the dipstick and wipe it clean with a cloth, then reinsert the dipstick and push it in as far as it will go. Pull the dipstick out once more and check it to see if the oil level is between “MIN” (minimum) and “MAX” (maximum) level lines of the dipstick.



You should also check the cleanliness of oil on the dipstick; replace oil if the cleanliness degree is not up to the standard.

If the oil level is below “MIN” level line, add engine oil in order to make the oil level between “MIN” and “MAX”.

The oil level should not above “MAX” level line; otherwise it may be cause malfunctions such as oil being consumed too much; spark plug accumulates carbon; and cooling effect is not good (engine oil is foaming) and engine power is not good.



Please use oil of same specifications, while adding the oil.

**Special attention:** If the oil warning light is on, but you still let the engine running, as a result, the engine is damaged. This is not covered by our quality guarantee.

# Maintenance and Upkeep

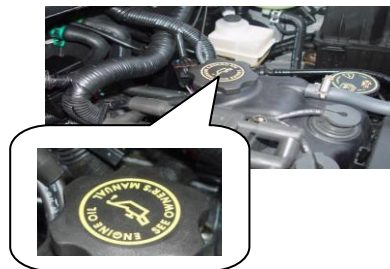
## Replacement of engine oil and filter

Replace engine oil according to time and mileage intervals, for engine oil changes along with the running of engine. It will go bad gradually and lose lubricating features.

Under special road conditions, such as frequent cold starting, on obvious urban traffic condition and sudden stop and drive by turns, engine oil and filter should be replaced at much shorter intervals (comparing with recommended time schedule of

maintenance).

Filter elements should be replaced, too, at the same time.



Maintenance intervals	Capacity
Replace it every 5,000 km or 6 months, every 3,000 km or 3 months in harsh conditions.	1.6DOHC-EE479: 3.75L TRITEC1.6L477: 4L

The adverse circumstances include:

- Outer temperature is always below the freezing point.
- Continue to be idling and/or frequent low-speed running (stop and drive by turns).
- Drive in dusty area.

### Coolant level



When the engine is cold, the coolant level is satisfactory if it is between the “MAX” and “MIN” lines on the reservoir. The coolant level in the reservoir will vary with engine temperature. If the level is below the “MIN” line, add coolant between the

“MAX” and “MIN” lines.

#### ! Notice

Boiling coolant and vapor will spout out under pressure, causing severe injury. To prevent burning yourself, do not remove the coolant reservoir cap when the engine and water tank are hot. The engine coolant maybe burns your skin and eyes, please take precautions to keep the coolant away from your skin and eyes. Always use the same type of coolant as already in the cooling system. To mix with soft water, do not mix too much. Please contact your nearest Chery Authorized Service Station for assistance, if you want frequent refilling. Please check the cooling system. Please use the recommended anti-freezing agent and coolant by Chery.

### Engine overheating

If your engine coolant temperature gauge indicates overheating or you suspect that the engine has probably overheated, please stop the car and have a check.

Turn off the air conditioning to let the engine idling for several minutes.

Check the cooling fan to see whether or not it is operating. If it is not, turn ignition off, and contact your Chery Authorized Service Station for assistance as soon as possible. If the cooling fan is operating, and steam is not boiling out of the engine compartment, please open the engine

# Maintenance and Upkeep

hood to let the engine idling until it is cooled. If the electric cooling fan is operating, but the temperature keeps high, you should stop the engine to make it cool.

Then check the coolant level. If the level is low, look for obvious coolant leaks from the radiator hoses, water tank hoses, water tank, and water pumps and under the vehicles.

If the engine is leaking, stop the engine immediately; contact the nearest Chery Authorized Service Station for consultation as soon as possible.

## ! Notice

To help avoid personal injury, keep the engine hood closed until there is

no steam, keep all people escape from the vehicle, turn the engine off. When there is no steam, you can open the engine hood.

**Special attention:** Do not attempt to remove the radiator cap when the engine and radiator are hot. Serious injury could result from scalding hot fluid and steam blown out under pressure.

## Brake fluid

Brake fluid is hygroscopic, the presence of moisture in the brake fluid will do harm to hydraulic brake system. Therefore, the brake fluid should be changed according to this manual's instruction.

Fluid level should be between

“MAX” and “MIN” lines of the reservoir.

If the level is low, it probably indicates brake system leak or consumption; you had better have it checked by the nearest repair shop.



Maintenance intervals	Capacity
Replace brake fluid every 50000 km or 24 months. But in harsh condition, replace it every 30000 km or 12 months.	0.45L

Make it clean before filling brake fluid. Remove the cap, fill brake fluid until it reaches “MAX” line of the reservoir, and then screw the reservoir cap backward tightly.

### ! Notice

Brake fluid can harm your hands and eyes, so keep your hands and eyes away from the brake fluid. If fluid gets in your eye, flush your eyes with

clean water. If you still feel pain, please go to a doctor for help. Have brake fluid changed by Chery Authorized Service Station or repair shop. Thoroughly clean the cap surroundings before you open it, for brake system maybe polluted, and as a result, the performance is not good. You should use Chery recommended brake fluid, for brake fluid of any other brands will damage the brake system.

**Special attention:** Brake fluid can damage paint surface. If fluid splashes on the paint surface, please flush the paint surface with clean water.

### Gearbox oil

You can check the gearbox oil level, only if the engine is off, the car is parking on the horizontal road surface and the gearbox is cold enough for you to touch its outer shell.

Remove the oil filler plug; check the oil level; add oil in small quantities at a time. If the level is too low, add the oil when the level reaches within the correct range, and install the filler plug hand-tight.

# Maintenance and Upkeep



You have no choice but use regulated oil of the schedule. Check the gearbox shell to see whether or not it leaks or being damaged, after you install the oil filler plug.

Maintenance intervals	Capacity
Replace it after the first 5,000km, then replace it every 3,000km.	1.8L

## ! Notice

After driving, oil temperature of gearbox may be very high. Please let the gearbox oil and oil filler plug cool before you check the oil level. In order to protect the environment, please deposit the waste oil and container properly to the appointed place.

## Power steering fluid level

When the engine is cold, power steering fluid level should be between “MAX” and “MIN” lines of the reservoir. If the level is below “MIN” line, please add the fluid in time.



## Air filter

Air filter should be cleaned or replaced in time, if the vehicle is always in the environment with too much dust or dirt.



### ! Notice

If the air filter is not replaced for a long time, engine performance will not be in a good condition, some components may be damaged, and even the engine will be severely damaged.

Maintenance intervals
Replace it every 15000 km or half a year. Clean it every 5000 km or 3 months

### Spark plug

Carbon, which forms on the sparking plug, will weaken the combustion capacity of the sparking plug, so you

had better check the sparking plug, at regular intervals and remove the carbon. You can use sparking plug brush to remove carbon from sparking plug electrodes, and then use a little file to remove carbon on the insulator layer carefully. Blow it clean with compressed air; upper insulator layer should be cleaned, too.

Maintenance interval
15000km or 18 months

### Replacement of sparking plug

- Wipe any dirt and grease from the cylinder head plug seats.
- Loosen the spark plug through pulling the spark plug box. Remove

the spark plug with spark plug spanner.

- Install the new plug or cleaned one in the engine and run it in by hand, turn it clockwise several turns. If it is not ok, take it out, have another try, so as to ensure spark plug thread is up to the standard of cylinder head thread.

Tighten the spark plug with spanner; do not let it too tight.

Make sure spark plug cable is installed in correct order. Clip the spark plug box aligned with the seat tightly.

! Notice

## Maintenance and Upkeep

The engine will work unsteadily and the components will even be damaged if the spark plugs are installed not properly or spark plugs of any other else brands are installed. In order to avoid engine and other components being damaged, the following tips should be observed: 1. Tighten the spark plugs according to standard torque, do not let it too tight, it will damage the cylinder head thread if you let it too tight. 2. While removing or tightening the spark plugs, make the sockets aligned with the spark plugs rightly. 3. Install the plugs in the engine and run them by hand at first. 4. Loosen the plugs through pulling them, instead of

using high-tension line. 5. Do not use spark plugs of any other else brands. 6. Do not pollute the spark plug hole. 7. Pay attention to the safety, while the engine is hot, the spark plugs are hot, but you want to remove the plugs.

### Drive belt



Correct installation and suitable

tension of drive belt can ensure normal working of engine, air conditioning and other performance. Please replace the drive belt as soon as possible, if it is worn, cracked or inflated.

In order to check tension of drive belt, press the middle of pulley properly with your thumb to see whether or not the displacement of belt is about 10mm. If the belt is too loose, please have it adjusted and repaired by the nearest Chery Authorized Service Station.

#### ! Notice

Be sure not to start the engine while checking the belt, otherwise it will cause moving parts squeezed, separated or twisted together. It may

cause personal injury, too.

### Windshield washer fluid

Please use appointed windshield washer fluid.

#### ! Notice

Washing system will do harm to the paint, therefore: 1. Do not use anti-freezing fluid within the windshield washer. Do not mix water with the detergent, water may be cause the solution being frozen, damaging the other components of the washing system. 3. The washing system may be damaged, if you do not use appointed detergent. So please use Chery recommended detergent.

### Wind shield wiper

It will broaden your field of vision and improve the driving safety greatly, if you use windshield wiper correctly. Please check the wiper blade at regular intervals. Replace the hardening, crisp or dirty blade if necessary.

Because there is no ways to wipe the silicone trace off the glass successfully, do not use polishing compound on your vehicle windscreen; polishing compound will produce strip trace, which influences your field of vision.

You should clean the window or

wiper blade in time, for outer dirt of them will obstruct the view. If the wiper blade cannot work normally, please wash the window and wiper blade with light cleanser first, then wash them with clean water thoroughly. You had better use good washer. If necessary, replace the wiper blade. While replacing the blade, press the blade holder, pull the wiper blade from the wiper arm, and then push the new one in directly.

#### ! Notice

Solvent, fuel and paint diluent will all damage the wiper blade, so you should keep these matters away from the wiper blade.

# Maintenance and Upkeep



## Maintenance of battery

Different vehicle needs different battery. Your vehicle may be use maintenance free battery, as well as battery that need maintenance. So it is necessary for you to check and maintain the battery.

In order to maintain the battery properly, pay attention to the

following matters:

Install battery firmly and surely.

Keep the top of the battery clean and dry.

Keep connecting column and parts clean and tight.

If electrolyte leaks, please wash with water and soda solution immediately.

If you do not use the vehicle successively, disconnect the connecting column of battery, in order to avoid battery discharging, you should charge the battery every 6 weeks.

### ! Notice

Batteries contain sulfuric acid which is poisonous, corrosive and

flammable, therefore: 1. Keep the fire, spark and smoke away from the battery. 2. Avoid spilling acid on any part of vehicle body, paint surface and your clothing. 3. In order to protect the environment, have the waste battery disposed by Chery Authorized Service Station or place the waste battery on an appointed and safe place. 4. Make the cable connections in the right order, such as corresponding connections of positive and negative ones; do not make mistakes. Failure to so will cause severe accident.

### Brake pedal

Check the free movement of the brake pedal.

Turn the engine off, step on the brake pedal for several times, so as to make the vacuum escape from the braking system. Press the brake pedal slightly by hand, until you can feel slight resistance force. Measure the movement distance of the brake pedal. Please have it checked and adjusted by the nearest Chery Authorized Service Station in time, if the free movement of the brake pedal does not accord with your driving habit.

### Clutch pedal

Clutch pedal does not have free movement; if you feel it has, please have it checked by Chery Authorized Service Station or repair shop.

Maximum travel	Pedal force
165mm	300N

### Hand brake

You can check the hand brake travel, by means of recording the frequency of “click”, from releasing position to applying totally position. You should apply hand brake firmly while

driving on steep slope. If the frequency of “click” you can hear is less than the regulated one, please have the hand brake adjusted by Chery Authorized Service Station or repair shop.

Travel	There are 3-5 times of “click” under 20 kg force.
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### Ternary catalytic converter

Leaded gasoline is harmful to the catalytic converter and electrical control system, so do not use leaded gasoline.

In the case of vehicle with catalytic converter, fuel filler port of fuel tank

# Maintenance and Upkeep

is too small for the leaded gasoline filler gun to insert.



## ! Notice

Do not use leaded gasoline, in order to avoid damaging the catalytic converter.

The catalytic converter and vehicle may be damaged if you do not observe the following tips:

- If the engine can not start, the engine works abnormally after cold starting, engine power is not

in good condition or any other abnormal phenomenon indicating ignition system malfunction occurs, you should drive at low engine speed in a short time.

You should avoid:

Frequently cold start the engine.

Working hour of engine is too long, while restarting (fuel injecting hour, in starting stage, is postponed)

The fuel tank becomes empty (abnormal fuel supply will result in engine overheated)

· Start the engine by means of towing (unburn gasoline will enter the catalytic converter)

Have all maintenance work done by Chery Authorized Service Station. All components of electrical control system, injecting system and ignition system work normally, will reduce emission pollution and extend catalytic converter life.

## Wheels and tires

The manufacturer's equipped tires fit in with needs of the chassis, so as to ensure the maximum comfortableness and safety of driving. Using any other size or type of tires or wheels may cause serious accident. Contact your Chery Authorized

Service Station for consultation and technical support, before you replace with tires and wheels or any other type.

### ! Notice

Using any other size or type of tires may seriously affect handling between the body and tires. So you should be sure not to use tires of different size in one vehicle.

### Tire inflating

In order to make you comfortable and safe while driving, also in order to extend tire life, it is necessary to keep the tire pressures at the proper level. You should check the tire pressure

every two weeks at least. And do not forget the spare! Check the tire pressures before a long journey, too! The tire pressure should be checked using an accurate tire pressure gauge, when the tires are cold.

Tire pressure kpa (PSI)

Condition	Front	Rear	Spare tire
Empty load/Half load	200	220	350
Full load	210	260	350

The pressure maybe fall blow the regulated minimum value; the pressure will not fall when the tire is

hot. After checking, you should be sure to reinstall the tire inflation valve caps tightly.

Incorrect tire pressure may quicken tire wear, reduce fuel economy and make your vehicle less safe, easy and comfortable to drive.

Low tire pressure results in tire interior loss and possibility of blowouts or leak from over heated tires, while driving at high speed. Hidden wound of tire cannot be eliminated through adjusting the refilling pressures.

# Maintenance and Upkeep

## Tire condition

It will cause tire hidden wound if you drive on the cliff border, you will find it later, and the tire has the possibility of leakage.

You should be driving cautiously and slowly on uneven road surface (at a suitable angle if possible). Do not let the tires press concave and convex edge, while you stop the car.

Check the tires regularly for damage such as impurities, leakage, cuts splits and lateral convex, tire damage can result in the possibility of blowouts. Check the rims to see

whether or not they are damaged. If any damage or abnormal wear is found, contact your Chery Authorized Service Station for consultation.

Abnormal wear is usually caused by incorrect tire pressure, failure to rotate tires, improper wheel alignment, out-of-balance tires, severe braking and harmful driving habit.

The tires on your Chery have built-in tread wear indicators to help you know when the tires need replacement. When the tread depth wears to a certain degree, the indicator will appear in two or more adjacent grooves, the indicator's

position will be shown through longitudinal marks of the tires.

For safety, we recommend you replace the tires if the tread longitudinal wear down below approximate 1mm of indicator mark.

Chery recommends at least both of the front or rear tires be replaced at a time as a set. When replacing the tire, use only the same size and construction, the same type and tread, as originally installed.



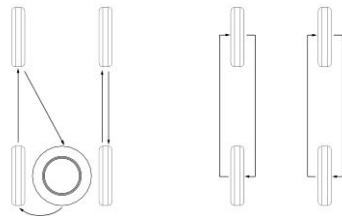


### ! Notice

Do not mix radial, bias belted or bias ply tires on your vehicle; do not use any other tires which are not appointed by Chery, because it will cause loss of vehicle control, it may hurt the vehicle if you use tires of different sizes. You should use only the same size and same type as originally installed by the manufacturer. Never use wear tires, second-hand tires or damaged tires on your Chery, for it is very dangerous. It will result in accident.

### Exchange of tires

Working conditions of front and rear tires are different; conditions of their wears are different, too. It mainly depends on road surface condition and your driving habits. To equalize tire wear and help extend tire life, Chery recommends that you rotate your tires approximately every 5,000 K.m, at the same time, adjust tire pressure and check the wheel nuts to see whether or not they are tight enough.



### Arctic tires

Arctic tires should be installed on all wheels. If you use snow tires, observe permissible maximum speed for your arctic tires and the legal speed limit, you must observe the manufacturer's recommended tire pressure.

### ! Notice

It may be disadvantageous for safety and flexibility of vehicle operation if

# Maintenance and Upkeep

you use snow tires. You should use standard tires of same size and same model. As long as the road surface condition permits, do not use snow tires.

## Snow chain

Regulations regarding the use of tire chains vary according to location or type of road, so always check them before installing chains.

When installing chains on your tires, carefully you should follow the instructions of the chain manufacturer.

If wheel covers are used, they will be scratched by the chain band, so remove the covers before putting on the chains.

Install the chains on the front tires.

Don not use chains on the rear tires.

Retighten chains after driving 0.5~1.0KM.

## ! Notice

It may be disadvantageous for vehicle handling if you use snow chain, so do not exceed 50km/h (30mph) or the chain manufacturer's recommended speed limit, whichever is lower. If you hear the chain touches the vehicle body or chassis, you should stop the car and retighten the chain as soon as possible. Drive carefully avoiding sharp turns, bumps and holes. You should avoid locked-wheel braking; or observe instructions of the manufacturer. Incorrect use of snow chain may adversely affect vehicle handling between chain and body.

## Ignition system

Electronic ignition system has stronger energy than the conventional ones; therefore, do not touch the dangerous ignition components.

## Central electronics box



Central electronics box is located in miscellany box rear part of the driver's instrument panel.

The circuit all has fuse for protection, we recommend you carry some spare fuses to make things convenient for replacement.

## Replacement of fuse

1. Turn the engine and corresponding electric component off.
2. Remove the screws fixed on both side of miscellany box, using SST.
3. Check the suspected fuse to see if it is blown.
4. Pull the blown fuse straight out,

replace with a good one of same amperage.

5. Electrify the corresponding equipment and check it.

6. Install the miscellany box properly.

### ! Notice

If the new fuse immediately blows out, contact your nearest Chery Authorized Service Station for assistance. Fuse is non-reusable, if blown, it cannot be used again, do not use the blown one for it will damage the electrical system.

## Center electronics box fuse location diagram

15A	15A	10A
15A	20A	20A

10A	20A	30A
15A	10A	10A
15A	15A	20A
10A	30A	30A
15A	10A	10A
10A	20A	10A

## Engine compartment

### relay/Fuses box

There are 3 relay and fuse boxes: one fuse box is located on the connecting place of positive boom and the battery; the other two relay and fuse boxes are located on front fender of

# Maintenance and Upkeep

engine rear part.

## Fuse box



60A	60A	120
Total power supply	ABS/ ECU	Engine Starter

**Front relay box 1**



<b>Lamp relay</b>	<b>A/C relay</b>
<b>A11-3735035</b>	<b>A11-3735015</b>

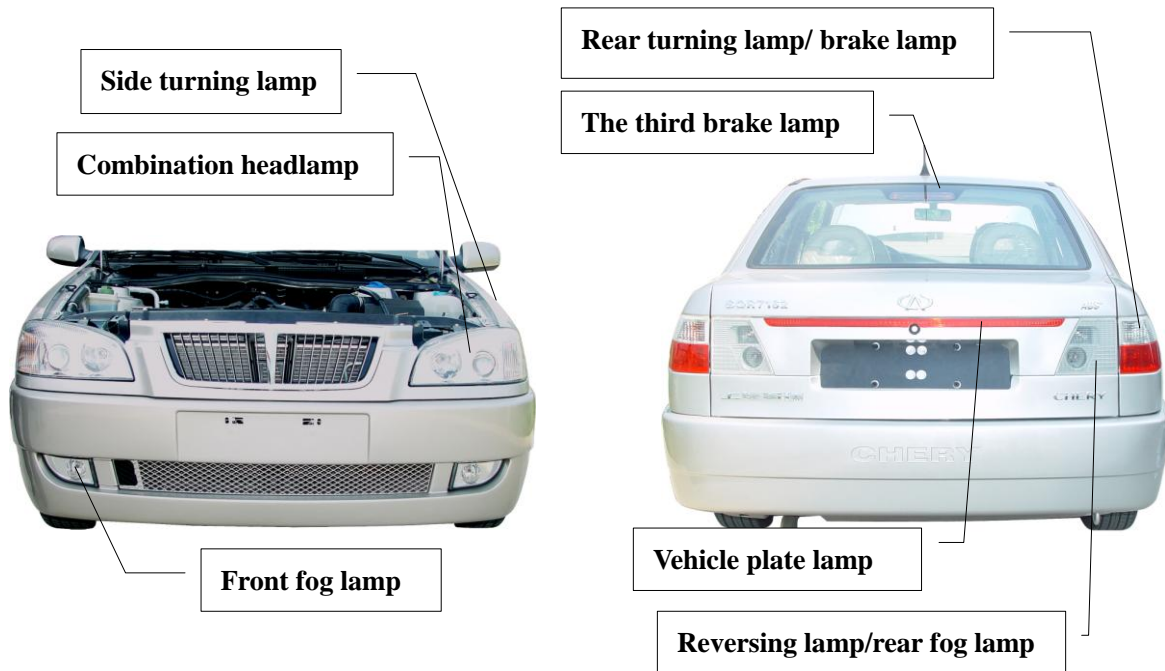
<b>Left high beam lamp 10 A</b>	<b>Left position lamp 10 A</b>	<b>Left low beam lamp 10 A</b>	<b>Right high beam lamp 10 A</b>	<b>Right position lamp 10 A</b>	<b>Right low beam lamp 10 A</b>		
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**Front relay box 2**



<b>Fan high-speed relay 100</b>	<b>Fan low-speed relay 53</b>
<b>Upshift 30A</b>	<b>Downshift 30A</b>

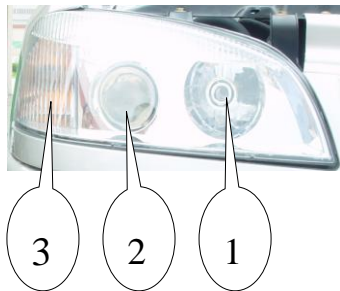
## **Chapter 9 Car Light**



# Car Light

## Combination headlight

(containing low beam light,  
high beam light/driving light,  
and front turning lamp)



### 1 High beam light/driving light

Turn on the high beam headlights if they are needed when driving at night, for you to keep abreast of road condition at long distance, or for you to meet another vehicle at short range, while the visibility is not good, (the light flashes shortly while you meet another one).

! Notice: You should observe corresponding traffic regulations.

Driving light is used at dusk, daybreak or in environment whose visibility is not good.

### 2 Low beam light

It is used to help you driving at night, for you to keep abreast of road condition at long range, (when city

road lamp is in good condition), so as to ensure safety of driving.

### 3 Front turn signal lamp

It is convenient for other drivers to know well your vehicle's information, while you make a detour or make a turn.

! Notice: Please let the front turn signal lamp flash, while entering a crooked road and cross roads, 50-100 meters ahead, it is convenient for drivers behind you and pedestrian of either side, know driving direction of your Chery clearly, in order to avoid traffic accident.

### Front/rear fog lamp

Front fog lamp can provide you front illumination, which possess a certain



of penetrability, while the visibility is not good (such as in bad fogs), it will provide guarantee for you and other people's personal safety.



In order to avoid unnecessary traffic confusion, you can make use of rear fog lamp to remind the other drivers and pedestrian behind you of your Chery's information.

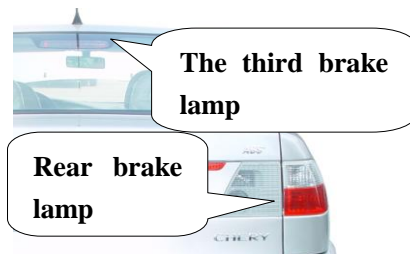


! Notice: Please use fog lamp correctly, according to the traffic regulations.

### Brake lamp, the third brake lamp

Brake lamp is used to remind other drivers and pedestrian behind you to make clear the road ahead.

The third brake lamp is used for supplement.



! Notice: Check brake light to see if there is any malfunction, before driving in order to ensure you and other people's personal safety. Repair or replace the damaged parts, in order to avoid unnecessary traffic accident.

### Reversing lamp /vehicle plate lamp

Reversing lamp reminds other drivers and pedestrian behind you, to know

# Car Light

your Chery's driving direction, in order to avoid unnecessary traffic confusion.

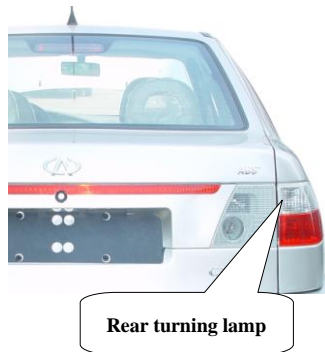
You'd better get out of the vehicle to see road surface condition behind you while backing the vehicle, in order to avoid unnecessary collision or being caught in soft roadbed. Vehicle plate lamp provides other drivers and pedestrian with your Chery's information.

! Notice: Please use reversing lamp and vehicle plate lamp correctly, according to traffic regulations.

## Rear turn signal lamp

Let drivers and pedestrian of your

rear side know your driving direction.



direction.



## Side turn signal lamp

Let drivers and pedestrian of both your sides know your driving

## **Chapter 10 In Case of an Emergency**

# In Case of an Emergency

## Tools in the trunk and spare tire



Tools in the trunk and spare tires are placed in spare tire carrier under the luggage trunk bottom panel without exception.

Spare tire is fastened under the bottom panel through a bolt. Tools in the trunk are put in a fixed bracket which is fixed on the spare tire through

a rubber ribbon.

Tools in the trunk include jack, wheel spanner, screwdriver, open wrench (10×13mm) and metallic hook (used for disassemble wheel hood).

Type of jack	Telescopic type
Maximum working load	1200kg
Type of grease	Lithium

### !! Notice:

1 Be sure to make spare tire and tools in the trunk fixed properly, in order to avoid injury of occupants during emergency braking or accident taking place; 2 Jack provided for this vehicle to use is only applicable for this vehicle, be sure not to lift other vehicles or heavy things else with this

very jack; 3 Be sure not to start the engine after lifting the vehicle, in case accident takes place; 4 Be sure to use suitable bracket to support the vehicle if you must work under the car.

## Replacement of wheel

### Replacement of tires

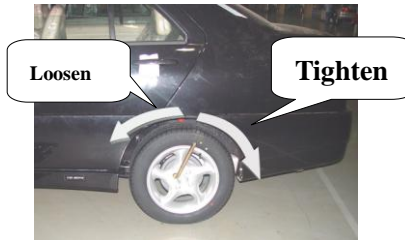
Please comply with the following tips in order to avoid unexpected accident while replacing tires:

- Move cautiously off the road to a safe place well away from the traffic.
- Park on a level place with firm ground.
- Put the transmission in “P” position.
- Turn off ignition switch; pull out

ignition key.

- Turn on your emergency flashers, firmly set the parking brake, if necessary, put into gear 1 or reverse gear.
- Put a cuneiform spacer or something can be used as obstacle to hold the wheel, on the rear or front direction of the wheel diagonally opposite the flat tire.
- Set a warning triangular signpost, 10 M away from the vehicle.
- Have everyone get out of the vehicle on the side away from traffic, to a safe place.

### Procedures of replacement



- Pry off rim cap.
- Loosen every wheel bolt for one circle with wheel spanner, but do not remove the bolts yet, just unscrew them about one-half turn, before raising the wheels.
- Position the jack at the correct jack point as shown. Put jack vertically close to front or back

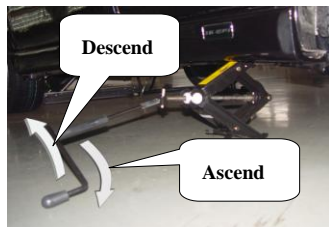
direction of the flat tire. Rotate jackscrew clockwise by hand, until jack top touches the vehicle bottom.



Insert the jack handle into the jack and turn it clockwise, so as to raise vehicle, until top of jack embedded in concave groove firmly and the wheels depart from the ground (about 3 CM).

## In Case of an Emergency

! Notice: Do not raise the vehicle too high



As the jack touches the vehicle and begins to lift, double check that it is properly positioned in case of slippery.

-Turn the wheel set bolts counter clockwise, so as to remove the bolts, and then remove the wheel.

- Install the spare tires properly; tighten the wheel bolts clockwise by

hand.

- Rotate jack handle counter clockwise, so as to make the vehicle come back to the ground.

Tighten the wheel bolts according to “diagonal line” mode ( 1-2-3-4 ) , shown as the following illustration.



Reinstall the wheel ornament

If you fail to use the wheel bolts or bolts not being tightened properly, will lead to wheel too loose or being lost, result in vehicle lose out of control.

- Use suitable wheel bolts.
- Make sure the right position of wheel bolts, and tighten the bolts reliably.
- Do not smear oil or lubricating grease on the wheel bolts.

! Notice:

The vehicle may be unstable, even has possibility of accident while using jack, therefore: 1.you should put the jack on right jacking point .2. Make the jack

vertical to the ground while installing the jack. 3. Never get beneath the vehicle when supported by a jack, do not start or run the engine while your vehicle is supported by a jack. 4. Have the occupants get out of the vehicle on the side away from traffic, in a safe place. 5. Jack is only used for replacement of wheel. 6. Do not support the vehicle using jack on bevel or slippery surface. 7. You should position the jack on side which is the closest to the flat tire, at the same time; hold the diagonal wheel opposite to the flat tire. 8. Make sure parking brake is on, before supporting, put transmission on gear 1 or reverse gear if necessary. 9. Keep away from the heavy traffic

place to replace the tires.

! Warm hints: If you are not sure to replace the tire safely, please contact the nearest Chery Authorized Service Station for assistance.

### Jump starting the engine

If the battery is flat, you can make use of power of other vehicle's battery to start the engine.

Any incorrect operation will result in battery explosion, causing personal injury or property loss, furthermore, electrical system of vehicle will be damaged to some extent, and therefore

you should pay attention to the following matters:

- Do not make battery close to fire or spark.
- Avoid spilling battery acid on your eyes, skin, clothing or vehicle for electrolyte of battery contain sulfuric acid, which will result in injury if you touch it directly.
- Make sure that voltage of battery which helps you to start the engine is the same as voltage of your vehicle battery (12V).
- Do not disconnect battery while it is low but not flat.
- Shut all unnecessary load of

## In Case of an Emergency

electrical appliance.

- Don't touch the battery while jump starting.
- Do not make two conducting wires which help to start, short connect.
- Pull parking brake, place gear bar to neutral gear.

Jump starting procedure:

Connect one end of the first jumper cable to the positive (Marked with “+” on outer shell of battery of connecting wire column which helps to start the engine)

Connect the other end of the first jumper cable to positive “+” marking on outer shell of battery which is low

but not flat.

- Connect one end of the second jumper cable to the negative (-) on booster battery.
- Connect the other end of second jumper cable to engine block of other vehicle or bolt connecting wire which is supported by the engine.

Do not connect the jumper cable to negative connecting wire column of flat battery.

The recommended connecting point shall be far away from the flat battery as possible as you can.

Make the jumper cable aligned in order to avoid touching the adjustable components in engine room.

Vehicle engine which provide jump starting can be normally working during period of jump starting.

Start the vehicle whose battery is flat within one minute as possible as you can, lasting time shall be within 12 seconds. You shall disconnect the connection without delay after starting.

**! Notice;**  
Turn off all lights and accessories while jump starting the engine, in order to avoid other systems or components being damaged, do not start your vehicle by means of pushing and pulling, to do so, maybe damage ternary catalytic converter and other electrical components.



### Towing vehicle

If towing is necessary. We recommend you contact your nearest Chery Authorized Service Station or Professional Rescue Centre for assistance.

It is necessary for you to follow appropriate lifting and towing procedures, in order to avoid damage to your vehicle. When towing with wheel lift type truck, you should:

- Turn on the warning light of the two vehicles.

- Put the ignition switch on "I" position.

- Put the gear bar on neutral gear position.

Release the parking brake.

The vehicle should be towed under the circumstances of driving wheel (front wheel) depart from the ground.

#### ! Notice:

Never tow from the rear with the front wheels on the ground, for this may cause serious damage to the transmission. Therefore you should adopt lifting front wheels to tow the vehicle. The vehicle can be towed by means of sling transportation equipment, use flat board or wheel as lifting auxiliary equipment.

### Emergency towing

While emergent towing, it is possible to use towing auxiliary equipment.

There is a towing hook in your vehicle which is mounted on the bumper of front and rear part of vehicle.

While towing the vehicle with towing hook and cable:

Open the hook cover.



Towing hook cover

- Buckle the cable tightly on the towing hook.



Front towing hook

-Turn the warning lights of the two vehicles on.

## In Case of an Emergency

- Put gear lever to neutral gear position, release hand brake.
- Place ignition switch on “II” position, so as to loosen lock of steering bearing, make brake lamp, horn and windshield window wiper normally working.
- Only driver can be in the vehicle to steer it and operate the brakes.
- Shut window of vehicle being towed; turn on button of interior circulation mode, in order to avoid exhausted gas gets in.
- Avoid sudden starting or bumping and vibration.



### ! Notice:

The vehicle may lose control while being towed. Therefore, if transmission, axles, steering or brakes are damaged, please do not tow the vehicle. At the same time, pay attention to the following matters:

1. Do not pull out ignition key for it will lock the steering system and make vehicle unable to move.
2. Make sure two ends of towing cable

fixed on the towing hook tightly. Pull the towing cable to check if it is tight enough.

3. Use rear towing hook to tow other vehicles.

## Save yourself after being caught in spongy ground

When your vehicle is troublesome for it being caught in spongy pit, at this time, it is necessary for you to rock the vehicle in order to escape from the hazard, please shift gear 1 to reverse gear, and then shift reverse gear to gear 1 repeatedly. At the same time, step on the accelerator gently.

Do not make the engine idling, so as to avoid damaging other components, because of engine being overheated.

You should ask for rescue if you fail to save yourself.

**! Notice:**

The vehicle may be caught while driving on snow, sand or mud field. Under this circumstance, idling engine will damage the driving elements; therefore, do not drive your vehicle at high speed.

# Chapter 11 Technical Requirements and Data

(Data in common use, only for reference)

### **Oils for vehicle use:**

#### **Engine oil**

Oil viscosity for this vehicle use is 10W-30 (not lower than grade SG); selected oil viscosity for vehicle use in winter is 5W-30 (not lower than grade SG).

We recommend shell brand engine oil according to the actual condition in China at present.

Don't confuse engine oil of different brands from different manufacturers together.

Please select suitable engine oil according to recommended one and actual conditions as possible as you can.

Failure to do so will result in engine being over worn or other more severe malfunction.

#### **Fuel**

You should select premium unleaded gasoline with a Research Octane Number of 93 or higher for optimum engine performance for this vehicle to use.

It is sure to hasten life of engine if you select gasoline with low octane number or gasoline of poor quality.

#### **Transmission gear oil**

Transmission gear oil for this vehicle to use: for manual transmission is GL-4, SAE 75W-90 or Fuchs 75V, do not confuse gear oil of different brands together.

#### **Coolant**

Recommended by the User's Manual for this vehicle, we select coolant of ESSEX or Shell brand. Soft and hard water are forbidden to use as coolant.

## Technical Requirements and Data

### Dimension of vehicle

Length	mm	4573	Minimum ground clearance	mm	125
Width	mm	1682	Approach angle		14.0 °
Height ( Empty vehicle )	mm	1424	Departure angle		18.0 °
Wheelbase	mm	2648	Camber angle (front wheel)		-30'±20'
Front suspension	mm	884	Kingpin caster angel		1°30'±30'
Rear suspension	mm	1041	Front wheel toe in		0'±10'
Front tread	mm	1425	Camber angle (rear wheel)		-1°30'±10'
Rear tread	mm	1419	Rear wheel toe in		20'±10'

### Parameters of engine

### Parameters of performance

Model	SQR480ED	SQR480EC	TRITEC1.6L	SQR477F
Type	4-cylinder, in-line, water cooling, in-line overhead camshaft	4-cylinder, in-line, water cooling, in-line overhead camshaft	4-cylinder, in-line, water cooling, 16-valve, single overhead camshaft	4-cylinder, in-line, water cooling, 16-valve, single overhead camshaft
Cylinder diameter    mm	79.96	79.96	77	77.4
Piston stroke        mm	79.52	79.52	85.8	79.52
Displacement        L	1.596	1.596	1.598	1.497
Compression ratio	9.75:1	9.75:1	10.5:1	10.5:1

## Technical Requirements and Data

Rated power      kw	65	65	85	80
Maximum torque N.m	132	132	149	140
Rotational speed of rated power r/min	5500	5500	6000	6000

### Common technical characters

Vehicle model	SQR7162L	SQR7162TL
Fuel capacity ( L )	55	55
Cooling system capacity ( L )	8	8
Engine oil capacity ( L )	4	4
Maximum speed ( km/h )	160	160



## Technical Requirements and Data

Kerb weight ( kg )	1130	1170
Total weight ( kg )	1505	1545

### Wheel

Tire model	Rim model
185/60 R14×82H	6J×14

### Tire pressure

kPa

Item	Front	Rear	Spare	Small spare
Empty load/Half load	200	220	350	420
Full load	210	260	350	420

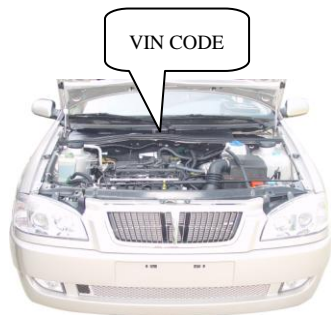
## Technical Requirements and Data

! Notice:

You should check the tire pressures at least once a month; tire pressure is especially important while high-speed driving.

Pressure values listed in the schedule are applicable for cold tire pressure; it is not necessary to reduce the pressure if the pressure slightly goes up while tire being heated.

## Official VIN of vehicle



### Official VIN

Vehicle Identification Number is printed on the enclosing plate in engine room (chassis No.)

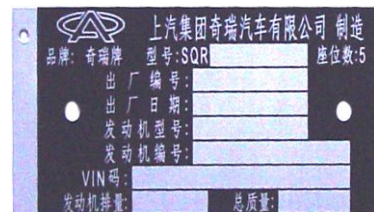
## Engine No.



### Engine No.

Engine No is printed on the lower part of engine cylinder.

## Vehicle data plate



### Vehicle data plate

It is mounted on the main body of right front wheel hood.

There is also vehicle data in the planning schedule of maintenance service.