



Chapter 3 Maintenance of Car Body Electric Equipment

Maintenance notice proceeding

When check, remove and replace car body electric equipment relating parts, please pay attention to the proceedings below.

1. Lighting equipment

There is sealed gas in halogen bulb, so please operate carefully. It maybe implode if drop; when you remove the bulb, take the bulb at the plastic part or metal part of the bulb, don't touch glass part.

2. Air bag

Chery S11 equip air bag at the driver and copilot position. Improper maintenance will cause the incidental inflation of airbag and serious consequential accidents. So you should regard the warning content on SRS equipment before maintenance.

3. Acoustics equipment

If remove the negative wire from the battery, the frequency position of AM/FM1/FM2 will disappear, so please remember this position before remove, after grounding wire has been connected, then comeback to this position.



Section 1 Car Body Electric Equipment Common Fault Clearance

The cause analysis of car body electric equipment common fault can see in table 1.

Table 1 Car body electric equipment fault clearance

Fault system	Fault symptom or phenomenon	Possible fault position
Headlight and small lamp equipment	Dipped headlight dose not light	1. Lamplight control relay 2. Headlight change switch 3. Headlight switch 4. Dipped headlight fuse 5. Bulb 6. Harness
	High beam dose not light	1. Lamplight control relay 2. High beam fuse 3. Headlight change switch 4. Headlight switch 5. Bulb 6. Harness
	Lamplight can not change	1. Lamplight control relay 2. Headlight change switch (combination switch) 3. Bulb 4. Harness 5. Combination switch
	Small lamp dose not light	1. Headlight switch 2. Bulb 3. Lamplight fuse 4. Harness
	Lamplight dose not work	1. Lamplight fuse 2. Lamplight control relay 3. Headlight switch 4. Bulb 5. Harness
	Lamplight glitter	1. Bulb 2. Harness (whether contact well) 3. Grounding wire contact not well
	Lamplight dim	1. Bulb 2. Harness (whether ground well) 3. Grounding wire contact not well



	Only one small lamp light	1. Fuse 2. Harness 3. Bulb
	Small lamp dose not work (headlight is normal)	1. Small lamp fuse 2. Headlight switch 3. Harness 4. Small lamp bulb
	Rear combination light dose not light	1. Harness 2. Bulb 3. Headlight switch
Headlight beam height control equipment (lamplight work normally)	Headlight beam height control equipment dose not work	1. Headlight switch 2. Beam height control switch 3. Beam height control motor 4. Harness
	Operate abnormally	1. Headlight switch 2. Beam height control switch 3. Beam height control motor 4. Fuse 5. Harness
	Operate abnormally (one side)	1. Beam height control motor 2. Fuse 3. Harness
Front foglight equipment	Front foglight dose not light (small lamp and headlight is normal)	1. Front foglight switch 2. Power supply fuse 3. Front foglight relay 4. Bulb 5. Harness
	Front foglight dose not light (headlight and small light don't light)	1. Headlight switch 2. Harness
	Only one foglight dose not light	1. Bulb 2. Harness
Rear foglight equipment	Rear foglight dose not light (small lamp and headlight is normal)	1. Foglight switch 2. Power supply fuse 3. Rear foglight relay 4. Bulb 5. Harness
	Rear foglight dose not light (headlight and small light don't light)	1. Headlight switch 2. Harness
	Rear foglight light, front foglight dose not light	1. Foglight switch 2. Front foglight relay 3. Harness 4. Bulb



	Only one rear foglight dose not light	1. Bulb 2. Harness
Turning signal and hazard alarm equipment	Turning and hazard alarm light don't light	1. Hazard alarm light switch 2. Flasher 3. Fuse 4. Harness
	Flash frequency is abnormal	1. Bulb 2. Flasher 3. Harness
	Hazard alarm light dose not light (turning is normal)	1. Hazard alarm light fuse 2. Hazard alarm light switch 3. Harness
	One side of the hazard alarm light dose not light	1. Bulb 2. Harness
	No turning signal (combination instrument, wiper and syringe don't work)	1. Turning light switch 2. Power supply fuse 3. Harness
	No turning signal (combination instrument, wiper and syringe is normal)	1. Power supply fuse 2. Flasher 3. Turning switch 4. Harness
	One side of the turning signal dose not light	1. Turning switch 2. Bulb 3. Harness
	Only one bulb dose not light	1. Bulb 2. Harness
Interior light equipment	One lamp dose not light	1. Bulb 2. Harness
	All interior light don't light	1. Car inside fuse 2. Harness 3. Lamplight brightness regulation switch
	Interior light don't light	1. Fuse 2. Interior light switch 3. Lamplight brightness regulation switch 4. Bulb 5. Harness
Backup light equipment	Backup light dose not light	1. Backup light switch 2. Bulb 3. Harness
	Backup light always light	1. Backup light switch 2. Harness



	One lamp dose not light	1. Bulb 2. Harness
Braking light equipment	Braking light dose not light	1. Braking light fuse 2. Braking light switch 3. Bulb 4. Harness
	Braking light always light	1. Braking light switch 2. Harness
	One lamp dose not light	1. Bulb 2. Harness
Wiper and syringe equipment	Front wiper and syringe don't work	1. Wiper fuse 2. Wiper switch 3. Front wiper motor 4. Wiper intermittent relay 5. Front syringe motor 6. Harness
	Front wiper low speed or high speed gear dose not work	1. Wiper switch 2. Wiper fuse 3. Wiper intermittent relay 4. Front wiper motor 5. Harness
	Front wiper intermittent gear dose not work	1. Wiper switch 2. Wiper fuse 3. Wiper intermittent relay 4. Front wiper motor 5. Harness
	Front syringe motor dose not work	1. Wiper switch 2. Wiper fuse 3. Front syringe motor 4. Harness
	Syringe work, front wiper dose not work	1. Wiper intermittent relay 2. Wiper fuse 3. Wiper switch 4. Harness
	Rear wiper and syringe don't work	1. Rear wiper fuse 2. Wiper switch 3. Rear wiper motor 4. Rear syringe motor 5. Harness
	Rear syringe motor dose not work	1. Wiper switch 2. Rear syringe motor 3. Rear wiper fuse 4. Harness



	Syringe dose not work, rear wiper dose not work	1. Wiper switch 2. Rear wiper motor 3. Harness
	No cleaning solution sprayed	1. Syringe tube and nozzle 2. Syringe motor 3. Wiper switch 4. Syringe fuse 5. Harness
	Wiper contact car body when wiper in high speed gear	1. Wiper blade 2. Wiper connecting rod location
	Wiper blade dose not return to original position or return not completely when close the wiper	1. Power supply fuse 2. Wiper motor 3. Adjust improper 4. Harness
Instrument and illumination combination meter	Tachometer, fuel meter and coolant temperature meter don't work	1. Instrument fuse 2. Instrument circuitry template 3. Bulb 4. Harness 5. Sensor
	Speedometer dose not work	1. Vehicle speed sensor 2. Instrument circuitry template 3. Speedometer 4. Harness
	Tachometer dose not work	1. Engine ECU 2. Engine tachometer 3. Instrument circuitry template 4. Harness
	Fuel meter work abnormally or dose not work	1. Fuel meter 2. Fuel sensor 3. Instrument circuitry template 4. Harness
	Coolant temperature meter dose not work	1. Coolant temperature meter 2. Coolant temperature sensor 3. Instrument circuitry template 4. Harness
	Illuminating lamp dose not light	1. Small lamp fuse 2. Instrument circuitry template 3. Illuminating lamp dimmer 4. Bulb 5. Harness
	One illuminating lamp dose not light	1. Bulb 2. Harness 3. Corresponding function part



Warning lamp and indicator lamp	Engine fault warning lamp dose not light	1. Engine ECU 2. Instrument circuitry template 3. Harness
	Fuel fluid level warning lamp dose not light	1. Fuel fluid level warning switch 2. Instrument circuitry template 3. Bulb 4. Harness
	Oil pressure warning lamp dose not light	1. Bulb 2. Oil pressure switch 3. Instrument circuitry template 4. Harness
	ABS warning lamp dose not light	1. Bulb 2. ABS computer 3. Instrument circuitry template 4. Harness
	Seat belt warning lamp dose not light	1. Bulb 2. Instrument circuitry template 3. Buckle switch 4. Harness
	Braking warning lamp dose not light	1. Bulb 2. Parking brake switch 3. Brake fluid level warning lamp 4. Instrument circuitry template 5. Harness
	Air bag warning lamp dose not light	1. Bulb 2. Air bag sensor assembly 3. Instrument circuitry template 4. Harness
	Door open warning lamp dose not light	1. Vehicle interior fuse 2. Bulb 3. Gating switch 4. Instrument circuitry template 5. Harness
	Upper beam indicator lamp dose not light	1. Bulb 2. Instrument circuitry template 3. Headlamp switch 4. Harness
	Turning indicator lamp dose not light	1. Bulb 2. Instrument circuitry template 3. Turning switch and hazard warning switch 4. Harness



	Front foglight indicator lamp dose not light	1. Instrument circuitry template 2. Bulb 3. Harness
Electric window control equipment	Electric window equipment dose not work (all) (electric door lock dose not work)	1. Window control switch 2. Guard against theft computer 3. Harness 4. Power supply fuse of controller
	Electric window equipment dose not work (all) (electric door lock work normally)	1. Electric window control switch 2. Guard against theft computer 3. Harness
	Only one door glass dose not work	1. Electric window main switch 2. Electric window switch 3. Electric window motor 4. Harness
	Electric window lock equipment dose not work	Guard against theft computer
Electric door lock control equipment	Door lock equipment dose not work	1. Central control switch 2. Guard against theft computer 3. Remote controller 4. Door lock motor 5. Harness
	Manual door lock equipment dose not work	1. Central control switch 2. Guard against theft computer 3. Remote controller 4. Door lock motor 5. Harness
	Key can nor control door lock equipment	1. Door lock motor signal switch 2. Guard against theft computer 3. Dock lock is locked 4. Harness
	Driver side door two step open function failure	1. Door lock switch 2. Guard against theft computer 3. Harness
	Only one door lock dose not work	1. Door lock motor 2. Harness

Section 2 Lamplight System Operation Guide

Please abide by relating Highway Code when use lighting facilities below.

1. Small lamp, headlight switch



OFF – close vehicle outside lamp

1st gear  - lighten parking lamp/sidelights, illuminating lamp of instrument and switch, license plate lamp.

2nd gear   – lighten headlight (lower beam or upper beam).

Notice: only open the ignition switch, headlight can work. Headlight put out automatically if the ignition switch has been closed.

2. Headlight change beam switch



With headlight low beam on, headlight upper beam will be turned on when control

lever is pushed towards dashboard and upper beam indicator light will light up simultaneously. Headlight low beam will be lit up when control lever is pulled back to original position.。

3. Headlight glitter switch



If you want headlight glitter when you drive, you can pull control lever towards steering wheel to the change point, then control lever may be released. Repeat this action time after time, headlight can glitter continuously.

4. Front foglight / rear foglight switch



Front foglight switch and rear foglight switch are located on the headlight change beam switch and at left lower of the steering wheel.



With the headlight switch on, turn on the front foglight switch, front foglight can operate but rear foglight can not.

With the headlight switch on, turn on the rear foglight switch, rear foglight can operate with front foglight simultaneously.

When front foglight operate, the front foglight switch inner indicator lamp will illuminate.

Rear foglight are allowed to apply only when there is a very low visibility (with a visibility distance less than 50 meters) for their stronger dazzle.

5. Turn signal light switch



Turn signal lights may work only when ignition switch is turned on.

Left turn signal light—move the handle downwards

Right turn signal light—move the handle upwards

When turn signal light is turned on, turn signal indicator light flash simultaneously.

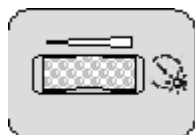


Change driveway signal light



Pull the handle upwards or downwards to change point and hold on, corresponding turning light will flash. At the same time, the turn signal indicator light of corresponding direction on the instrument panel will flash simultaneously.

6. Regulator of instrument illumination and headlight beam height



With the headlight switch on, you can use regulator to adjust the intensity of instrument panel indicator light.

When you operate the vehicle exterior lamp, you can use regulator to adjust the illumination intensity of instrument panel.

When you operate the lower beam light, you can use regulator to adjust the beam height of the headlight.

7. Interior ceiling light switch



OFF position: Interior ceiling light will not illuminate.

ON position: Interior ceiling light will remain on.

Middle position (door position): Interior ceiling light will illuminate when vehicle door is opened. Interior ceiling light will still illuminate in 8 seconds after close the door in order to help passenger seating safely.

8. Luggage compartment illuminating lamp

Luggage compartment illuminating lamp will illuminate when luggage compartment lid is opened (this lamp is not controlled by ignition switch). Please close the luggage compartment lid after parking.

You can also make this lamp in close state. In other words, the lamp will not illuminate when luggage compartment lid is opened. Therefore, you can press the triggering switch to locking position, when you want turn on this lamp, you only use your hand to release the switch.

9. Hazard warning flashlight switch

When hazard warning flashlight switch on dashboard is pressed, hazard warning flashlight will be turned on and all turn signal light will light up simultaneously. After once more a press, all lights go out at the same time. Hazard warning flashlight may be operated on matter whether ignition switch is turned on. Apply hazard warning flashlight to warn other drivers and try to avoid stopping on driveway when an emergent parking or traffic handicapping is avoidless.





Section 3 Removal and installation of entire vehicle lighting assembly

Explanation of lighting system

Chery S11series passenger car entire vehicle lighting fitting includes illumination equipment and light signal equipment. It is used to guarantee the car's normal running and safe driving at night or in the fog. It includes: headlight (lower beam and upper beam), front turning light (including small lamp), front foglight, combination taillight (including backup lamp, turning light, braking/parking light, small lamp and so on), license plate lamp, interior ceiling light, luggage compartment lamp and rear foglight. Headlight apply half enclosed type lighting structure, it is convenient to examine and repair; use halogen bulb to reduce bulb black and increase illuminating intensity and extend the useful life of bulb.

Removal and installation of entire vehicle lighting assembly

1. Notice proceeding before removal:

- a. Close control switch of corresponding lighting fitting, remove the wire connected to battery;
- b. Please don't touch the bulb by your hands when replace the bulb, otherwise the fingerprint on the bulb will be heated and volatilize after light up the bulb, and then it will deposit on the lens surface, so the reflector will become dim.

2. Removal and installation of headlight



Please calibrate the headlight after remove and install the headlight every time.

Removal:

- Open the engine compartment hood;
- Pull out the harness plug ;
- Remove front bumper (see front bumper removal) ;
- Loose three bolts (M6*10) fixed on the headlight cross member;
- remove headlight.

**Installation:**

- a. Install headlight in corresponding position, ensure the bolt fixing hole and the headlight cross member welding nut are concentric;
- b. Locate the headlight by three M6 bolts with the torque $1.6 \sim 2.0 \text{ N} \cdot \text{m}$. Drop the engine compartment hood, verify and adjust the assembly position of headlight, headlight should protrude from engine compartment hood a little, you can feel that there is a radian between them by your hands, then tighten the fastener.

3. Removal and installation of front foglight

Removal:

If possible, you can raise the car first then remove from bottom.

- Loose the nut, take out the bolt
- Remove harness connect plug, take out the front foglight from the location hole of the front bumper

**Installation:**

- First ensure left and right (left lamp sign “L” , right lamp sign “R”), then put the foglight into installation hole from front, insert two locating pin into location notch and use bolt and nut to tighten it.
- Connect foglight harness butt joint;



4. Removal and installation of front turn signal lamp

Removal:

- Raise the vehicle and then remove from the bottom of the vehicle if possible.
- Loose two screws the take out the turn signal lamp
- Remove the harness connector, then take down the turn signal lamp from the location hole of the front bumper

Installation:

- First you should distinguish left and right(“L” mark in the left lamp, “R” mark in the right lamp), then put the turn signal lamp into the install hole, at last tighten two tapping screw on the install hole;
- Connect the turn signal lamp harness connector;

5. Removal and installation of combination tail lamp (include parking light/braking light, turn signal lamp, backup light)

Removal:

- Open the luggage compartment lid;
- Loose two tapping screw, then pull out the lamp;
- Pull down the lamp seat harness.



Installation:

- Connect the lamp seat harness;



- Put the bolt with expand nut into the location hole on the car body, then fix the lighting fitting with tapping screw;
- Connect lamp seat harness, install the carpet.
- Close the luggage compartment lid.

6. Removal and installation of license plate lamp protective board and license plate lamp

Removal:

1. Open the luggage compartment, remove trim board.
2. Loose the nut which to fix lock core.
3. Loose two tapping screw on the protective board then take them down.
4. Remove the tapping screw from license plate lamp.

Removal of license plate lamp/protective board assembly

- Remove four fixing screws on the license plate lamp.
- Remove two fixing screws on the protective board.



Installation:

- Connect harness connector;



- Insert base line of the lamp into sheet-metal hole, screw hole on the lamp and screw hole on the sheet-metal is concentric, then tighten tapping screw.
- insert two bolts of license plate into sheet-metal hole, install the nut and tapping screw, adjust install position then tighten nut and tapping screw;
- Assemble the luggage compartment lid trim board, close the luggage compartment lid.

7. Removal and installation of rear foglight

Removal:

- Raise the vehicle and then remove from the bottom of the vehicle if possible.
- Loose two nuts then take out the foglight
- Remove the harness connector, then take down the foglight from the location hole of the front bumper



Installation:

- First you should distinguish left and right(“L” mark in the left lamp, “R” mark in the right lamp), then put the foglight into the install hole, insert two pins into location notch, then tighten it by bolt with nut;
- Connect the foglight harness connector;

8. Removal and installation of interior ceiling light

Removal:

- Insert flat-tip screwdriver between shade and shell, prize the shade carefully;
- Remove two tapping screw of front ceiling light by screwdriver.
- Disconnect lamp holder harness.



Installation:

- Connect the harness connector;
- put the lamp into top install hole in correct position and direction, tighten the tapping screw by screwdriver, then press the shade of ceiling light in by your hands.

**9. Removal and installation of high-mounted stop lamp****Removal:**

- Open the luggage compartment lid, remove the trim board, take out the wiper motor.
- Loose two fixing screw then pull out the shade downwards.
- Loose three bolt the take out the high-mounted stop lamp.
- Pull out the connector.

**Installation:**

- Connect the harness connector;
- Fix the lamp body by bolt;
- Install the luggage compartment trim board, close the luggage compartment lid;