Service Manual for Chery V525 Car

（Body Accessories）

After Sales Service Department of Chery Automobile Sales Co., Ltd

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Chapter One Engine Hood And Luggage Compartment



I. Disassembly and assembly of engine hood

1 Preparation

Tool: flat head screwdriver, pliers, wrench

2 Note

2.1 Pay attention to use correct force during disassembly and assembly , and it is not allowed to operate with too big force.

2.2 Pay attention to avoid scoring the surface during the inner trimming parts disassembly and assembly.

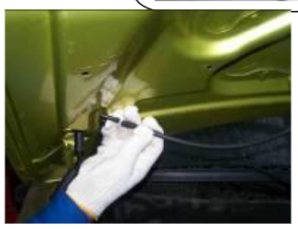
3 Disassembly/assembly of engine hood accessories

3.1 Disassembly steps

3.1.1 Take off the snap clips(19 pieces) by screwdriver from heat insulator, and take off the engine heat insulator.



3.1.2 Take off the hose of washing liquid.



3.1.3 Take off two water nozzle clips from engine hood, Push the nozzles under the hood and get out of the nozzles front outside.



3.2 Assembly steps

The installing steps are reverse to those for removal.

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4 Disassembly and adjustment of the engine hood assembly

Tool: No. 13 spanner

4.1 Take off four adjusting bolts from engine hood.
And disassemble the engine hood.
At the same time, through unscrewing four adjusting bolts, move and adjust the position of engine hood.



4.2 Assembly of front engine hood assembly:
The installing steps are reverse to those for removal.
Installation torque: 29±3Nm

5 Disassembly and assembly of air intake grille assembly

Tool: No. 10 spanner

5.1 Disassembly steps

5.1.1 Take off four fixing bolts by spanner from air intake grille assembly, see the chart.



5.1.2 Take off air intake grille.
Note: take off the air intake grille horizontally to avoid to damage the clips on the grille.



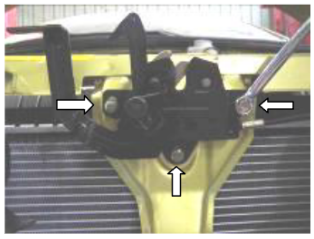
5.2 Assembly of air intake grille
The installing steps are reverse to those for removal.
Installation torque: 5±0.5Nm

6 Adjustment and assembly of the engine hood lock

Tool: No.10 spanner

6.1 Disassembly steps

6.1.1 Disassemble the front engine hood lock by unscrewing these three centering bolts from engine hood.
And also the lock position can be adjusted by these three centering bolts.



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6.1.2 Take off the lock cable from engine hood.



6.2 Assembly of engine hood lock

The installing steps are reverse to those for removal.
Installation torque: 9±1Nm

7 Disassembly of engine hood lock control cable

Tool: No. 8 spanner, No.10 spanner, flat head screwdriver

7.1 Disassembly steps

7.1.1 Disassemble two fixing bolts from engine hood opening
Installation torque: 9±1Nm



7.1.2 Take off the front cover control cable from cover.



7.1.3 Take off engine hood lock, and disassemble the cable from engine hood lock assembly.



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7.1.4 Unscrew two clips from fixing cable by flat head screwdriver.







7.1.5 Disassemble front bumper and driver's side fender (see fender disassembly)

7.1.6 Take out the plug where the cable go through to cab.

7.1.7 Take out of the cable.



7.2 Assembly steps

The installing steps are reverse to those for removal.
Note: put the slot into pulling slot during cable installation.

II. Disassembly and assembly of rear luggage compartment lid.

1 Preparation

Tool: flat head screwdriver, No. 13 socket spanner
Material: snap clip

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2 Disassembly of rear lid trim panel

2.1 Disassembly steps

Tool: No. 13 spanner

2.1.1 Take away the luggage compartment inside panel.



2.1.2 The snap clips on the inside panel are one time using and should be carefully disassembly.



2.2 Installation of rear lid trim panel

The installing steps are reverse to those for removal.

3 Disassembly/assembly of luggage compartment lock

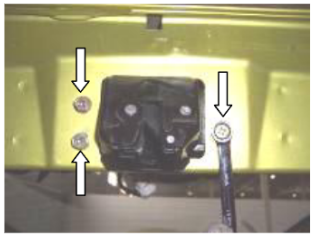
3.1 Disassembly steps

Tool: No. 10 spanner

3.1.1 Separate the motor plug of upper lock

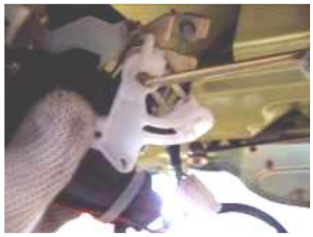


3.1.2 Take away three positioning bolts from luggage compartment lock. (Installation torque is 9±1Nm）



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3.1.3 Disassemble the pull rod



3.1.4 Take off control cable



3.1.5 Take off luggage compartment lock

3.2 Assembly steps

The installing steps are reverse to those for removal.
Note for installation：Observe the lock core for deformation, the welding is correct or not, if the lock bushing is well, and if the lock latch is flexible.

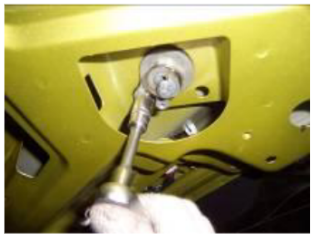
4 Disassembly of luggage compartment lock core

Tool: No. 10 socket spanner



4.1 Disassembly steps

4.1.1 Separate connect rod away from lock core



4.1.2 Loose the fixing bolt by socket spanner (Torque is 9±1Nm)，Take off the lock core.
Note: Do not throw away the washer of the lock core.

4.2 Assembly steps

The installing steps are reverse to those for removal.
Pay attention to assemble it to its correct position and joint to door plate work.

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5 Disassembly of rear wiper water nozzle

Tool: flat head screwdriver

5.1 Disassembly steps

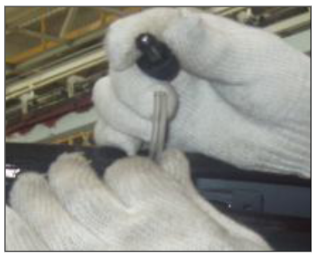
5.1.1 Take out the rear water injection nozzle
(Prize it by flat head screwdriver but avoid to damage the surface paint)



5.1.2 Enhance the nozzle and expose the water injection hose



5.1.3 Take out the water injection hose



5.2 Assembly steps

The installing steps are reverse to those for removal.
Note：Water injection opening should be opposite to wiper motor steering shaft.



6 Disassembly of rear wiper motor

6.1 Disassembly steps

Tool: No. 10 socket spanner
6.1.1 Take away the rear wiper protecting cover by hand

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6.1.2 Screw off the nut above the motor by No. 10 spanner and take out the rear wiper blades.



6.1.3 Disassemble these three fixing bolts from wiper motor. Installation torque is 12±2Nm



6.1.4 Take off motor plug and take out of motor.



6.2 Assembly steps

The installing steps are reverse to those for removal.

7 Disassembly of license plate light trim panel

Tool: No. 10 socket

7.1 Disassembly/assembly steps

7.1.1 Disassemble the rear wiper motor first (see rear wiper motor disassembly)



7.1.2 Take out 7 nuts from the installation holes below the luggage compartment.

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7.1.3 Disassemble the trim panel



7.2 Assembly steps

The installing steps are reverse to those for removal.

8 Disassembly of luggage compartment handle

Tool: No. 10 socket spanner

8.1 Disassembly steps

8.1.1 Disassemble rear wiper motor
（see disassembly of rear wiper motor）



8.1.2 Separate luggage compartment handle cable

8.1.3 Take off seven nuts from rear license plate light trim cover



8.1.4 Disassemble the license plate light trim panel (See disassembly and assembly of license plate light trim panel)



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8.1.5 Disassemble luggage compartment handle fixing bolts by socket spanner and get off the luggage compart ment handle.



8.2 Assembly steps

The installing steps are reverse to those for removal.

9 Disassembly of license plate light

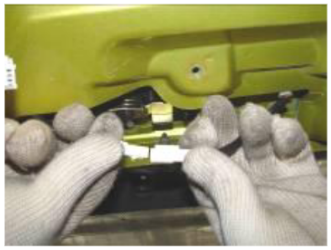
Tool: flat head screwdriver

9.1 Disassembly steps

9.1.1 Take out the luggage compartment inside trim panel (See disassembly of rear lid)

9.1.2 Disassemble the license plate light trim panel (See disassembly of license plate light trim panel)

9.1.3 Break the connection plug of left and right license plate light

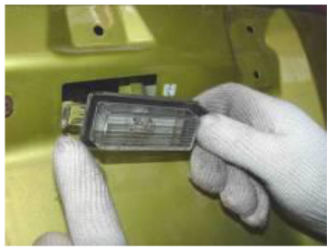


9.1.4 Disassemble the fixing screw and license plate light by cross head screwdriver.

Note: the right rear license plate light plug is located inside of the rear cover and difficult to be pull out and insert, disassemble the bulb of license plate light and then pull out and insert.



9.1.5 Take off the license plate light



9.2 Assembly steps

The installing steps are reverse to those for removal.

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Chapter Two Disassembly and Assembly of Inner Trimming Parts

I. Disassembly and assembly of seat belt

1 Preparation

Tool: flat head screwdriver, spanner
Parts: one time using snap clip

2 Note

Keep the seat belt clean and far away from oil, check it for damage.

3 Disassembly steps（e.g. front seat belt）

3.1 Prize the front threshold pressing plate carefully with flat head screwdriver.



3.2 Disassemble the front door weather strip.

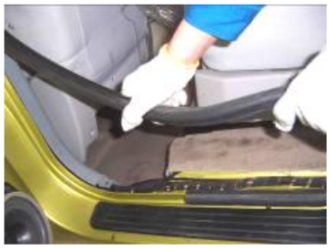


3.3 Disassemble the rear door threshold pressing panel



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3.4 Disassemble rear door opening weather strip



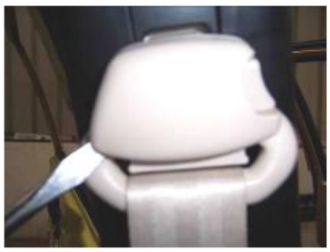
3.5 Disassemble the seat belt lower trim cover



3.6 Loose the fixing nut, take out B pillar lower protecting panel. Installation torque is 50±5Nm



3.7 Prize seat belt adjuster trim cover by flat head screwdriver and make sure do not damage the inside clip



3.8 Loose the fixing nut by No. 17 spanner and take off the seat belt.
Installation torque is 50±5Nm



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4 Assembly steps

The installing steps are reverse to those for removal.
Note:
4.1 Keep the seat belt clean and far away from oil, check it is damaged or not.
4.2 The pillar protecting board should be matched closely with body and not allowed to appear loosing; and the match with roof and weather strip should be good.
4.3 The seat belt adjusting slide back plate should can be adjusted flexible on B pillar, and it will not influence the seat belt adjustment. Clearance with lower protecting board should be less than 1mm;
4.4 Clearance between B pillar lower protecting panel and front/rear threshold pressing plate should be less than 1mm;

II. Disassembly/assembly of seat

Tool: No.16 sleeve

1 Disassembly steps

1.1 Push the seat back by pulling the moving handle under the left seat and expose the lower fixing bolt.



1.2 Disassemble these two fixing bolts by sleeve under the seat.

1.3 Move the handle by spanner and push forward the seat, expose these two fixing bolts on the back side.



1.4 Disassemble these two fixing bolts at the back of seat by sleeve.

1.5 Take off the connector under seat and take away the seat.

2 Assembly steps

The installing steps are reverse to those for removal.
Installation torque is 25±3Nm

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III. Disassembly and assembly of the Armrest Box and Sub Instrument Panel

Tool: cross head screwdriver

1 Disassembly steps



1.1 Disassemble these 4 connection screw from armrest box head screwdriver（fasten torque is 2±0.5N.m）and take away t

1.2 Take away two bolts which connected between sub i protecting board by cross head screwdriver (fasten torque is 2 instrument panel and 5 lower connecting plugs.



2 Assembly steps

The installing steps are reverse to those for removal.

IV. Disassembly and assembly of carpet

Tool: flat head screwdriver, cross head screwdriver; sleeve

1 Disassembly steps

1.1 Disassemble the seat (See disassembly of seat)



1.2 Disassemble threshold pressing plate, B pillar and C pillar lower protecting board (See disassembly of B pillar and C Pillar)

1.3 Disassemble A pillar lower trim panel

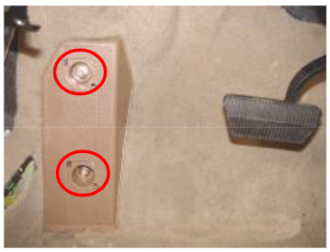
1.4 Disassemble armrest box and sub instrument panel (See disassembly of armrest box and sub instrument panel)



1.5，Prize the cover on the driver pedal by flat head screwdriver.

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1.6 Take away two fixing screws on the driver pedal with socket spanner and take off the pedal.
Installation torque is 7±1N.m



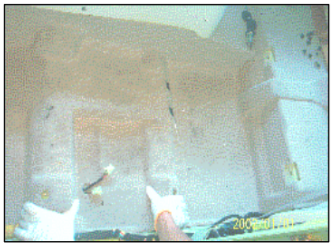
1.7 Take off the carpet by taking off the carpet connectors

2 Assembly of carpet

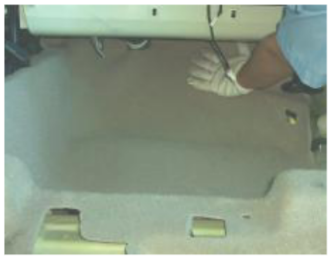
2.1 Put the carpet into car, take out the cable which connected to seat and press the bypass way carpet solidly

2.2 Pave the left front carpet to brake pedal and expose the hole from the carpet holes

2.3 Pave the carpet left, middle and rear side along the car bottom shape solidly and expose the front and rear seat installation holes.



2.4 Pave the carpet right front side to evaporator underside



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2.5 Take out the connecting cable of right front seat from carpet holes and pave it solidly



2.6 Pave carpet right, rear and middle side along to the shape of car bottom and expose right front seat installation holes

2.7 Pave the carpet rear side along car bottom



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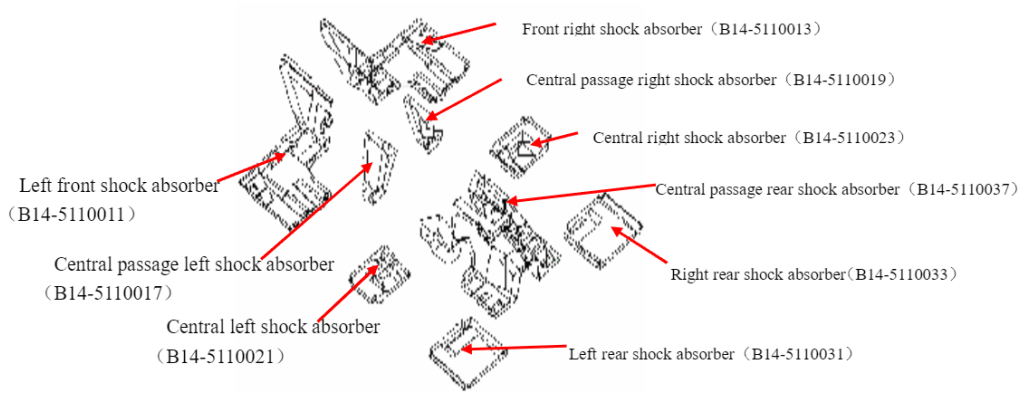
V. Disassembly of Shock Absorber

1 Disassembly steps

1.1 Disassemble the carpet (See disassembly of carpet)

1.2 Take off all the shock absorbers

The positions of shock absorber are shown as below chart



2 Assembly steps

2.1 The installing steps are reverse to those for removal.

2.2 Note of installation：

2.2.1 Tidy up the seat and rear oxygen sensor connecting cable before installing the shock absorber.

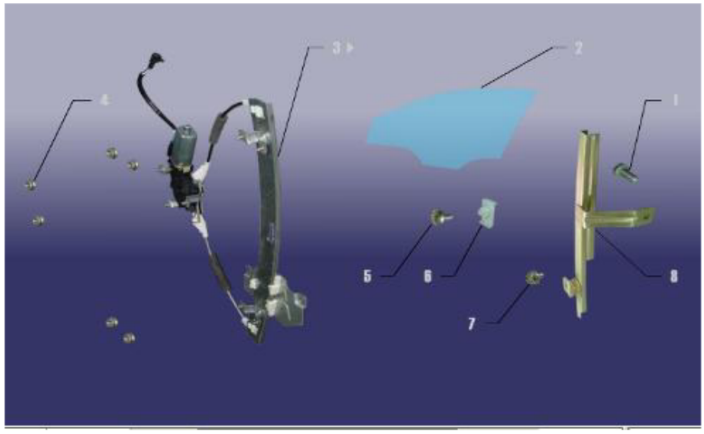
2.2.2 Make the shock absorber lower surface joint tightly with plate work.

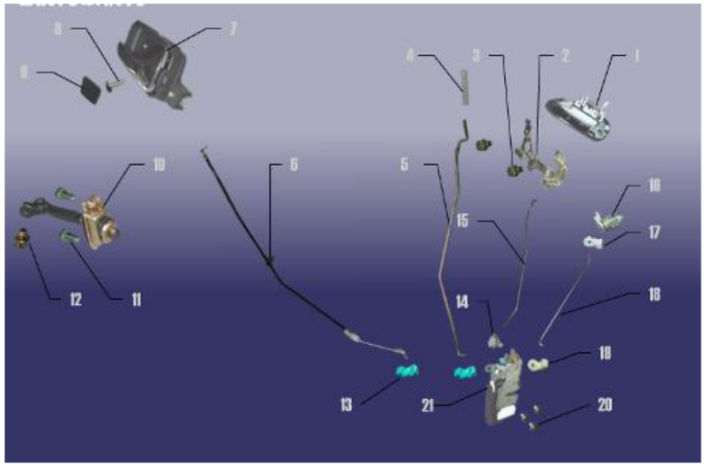
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Chaper Three Disassembly/Assembly and Maintenance of Door

I. Disassembly/assembly and maintenance of front door

1. System diagram





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2 Preparation

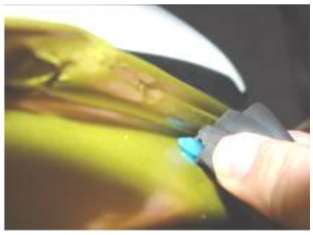
Tool: flat head screwdriver, cross head screwdriver, No. 7, 10 and 13 sleeve and pliers.

3 Note

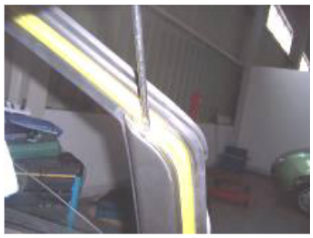
3.1 To prevent accident please wear labor protection appliance.
3.2 Break down accumulator to avoid damage the electrical units.
3.3 Use the correct method to disassemble and assemble the glass to avoid damage.

4 Disassembly/assembly steps

4.1 Disassemble door seal. The fixing clip is one type, press upside of the seal during disassembly and push it to one direction until one corner of the clip is exposed. And push the seal to opposite direction until another corner is exposed. Do not drug the seal at its perpendicular direct which will damage the seal.



4.2 Prize the plastic trim block which fix the outside rearview mirror by flat screwdriver.



4.3 Unscrew these two fixing clips by cross head screwdriver from front door panel.



4.4 Unscrew fixing screws from front door handle cover by cross head screwdriver. Take off window regulator switch cable plug and electrical rearview mirror adjuster switch plug.



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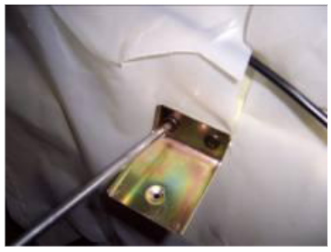
4.6 Take out the cable clip of inside opening cable handle by hand



4.7 Take off the courtesy light plug at the same time of getting of front door panel assembly.



4.8 Disassemble two fixing screw from front door handle cover by cross head screwdriver.



4.9 Tear down front door water proof plastic clothing.
（See disassembly of front door protecting panel assembly）

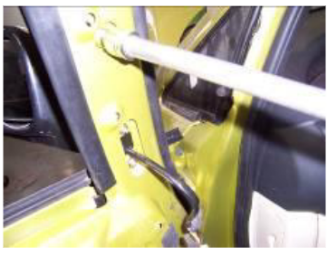


4.10 Pull out outside electrical control rearview mirror cable plug (See disassembly of outside rearview mirror)

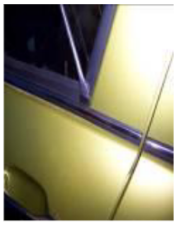


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4.11 Unscrew three fixing bolts from outside rearview mirror by No. 10 socket.



4.12 Prize front door inside and outside weather strip by screwdriver.（See disassembly of window regulator system）





4.13 Connect window regulator switch to cable again and decrease the glass to its lowest position.

4.14 Loose two fixing screws on the glass by cross head screwdriver.

And take out the glass assembly. Torque is 2.5±0.5 N.m.



4.15 Take off up and lower fixing bolts from window regulator by No. 10 socket. Torque is 7±1 N.m.



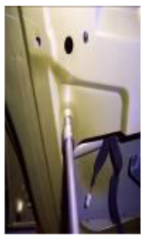
4.16 Disassembly three fixing bolts from window regulator motor by No.10 socket. Torque is 7±1 N·m.



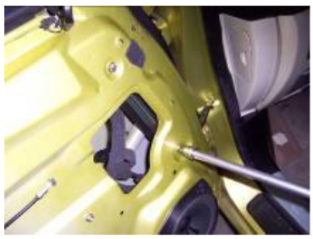
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4.17 Unscrew these two fixing bolts from front glass guide by No. 10 socket and take out front glass guide.
Torque is 9±1 N·m.





4.18 Disassemble two fixing bolts from rear glass guide by No. 10 socket. Take out rear glass guide and glass slot assembly. Torque is 9±1 N·m.



4.19 Unscrew four fixing screws from front door sound box by cross head screwdriver. Take out sound box assembly. Installation torque is 1.5±0.5 N.m.



4.20 Loose the fixing clip on door handle pull rod lock.
（See disassembly of front door lock）

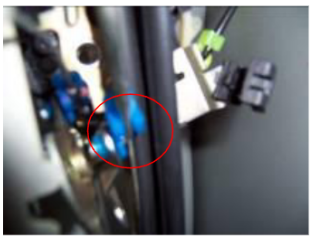


4.21 Loose the fixing clip on the lock of front door lock core pull rod by hand.



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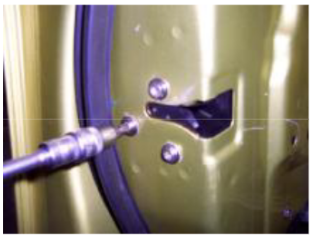
4.22 Loose safety lock pull rod fixing clip by hand.



4.23 Loose inside control cable fixing clip by hand.



4.24 Disassemble three front door lock fixing bolts by spline wrench. Installation torque is 9±1N.m
(With thread locking rubber)



4.25 Rotate the lock cable direction to a certain degree and take off the cable plug. Take out the lock assembly.

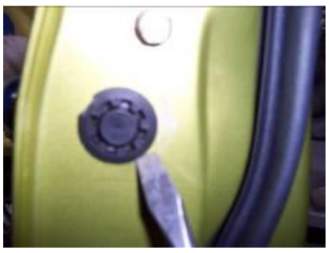


4.26 Disassemble the front door handle fixing screw by spline wrench. Installation torque is 8±1 **Nm**

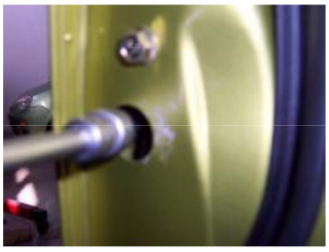


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4.27 Prize the front door lock core fixing screw protecting panel by flat head screwdriver.



4.28 Disassemble front door lock core fixing screws.
Note: The shim between lock core, door handle and car door can not be ignored. Make sure assemble it during installation. Otherwise it will influence the clearance between them.
Installation torque is 9±1 Nm



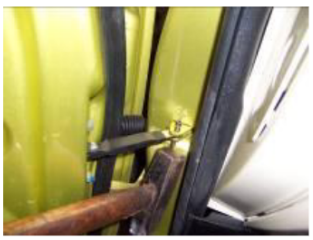
4.29 Take out lock core and handle assembly.



4.30 Loose two front door stopper fixing bolts by No.13 spanner. (See disassembly of front door hinge and stopper).
Torque is 36±4N.m.

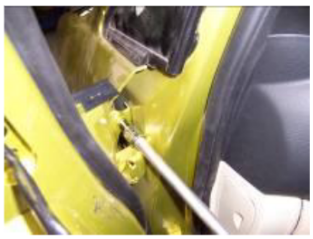


4.31 Front door stopper is connected to body by a flexible eye pin. This flexible eye pin is an elasticity pin made up of steel, beat it by a hamper heavily during disassembly and get it out.

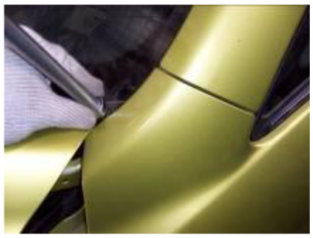


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4.32 Disassemble the fixing bolts of front fender on door by No. 10 socket. (See disassembly of fender) and torque is 10±1 N.m



4.33 Disassemble the fixing bolts of fender on windscreen by No. 10 socket.
Note: You must disassemble wiper and front cover assembly before disassemble this bolt.
Torque is 10±1 N.m



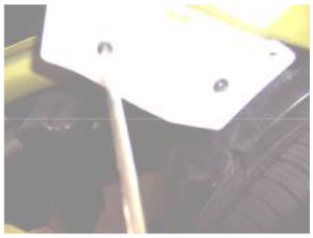
4.34 Disassemble two fixing bolts of fender on engine hood by No.10 socket. Torque is 10±1 N.m



4.35 Disassemble fixing bolt between bumper and mudguard by No. 7 sleeve.
Installation torque is 2±0.5 N.m

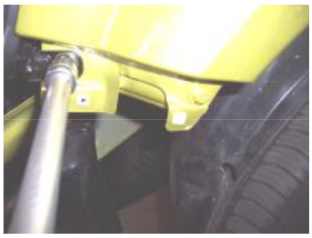


4.36 Prize the connection clip between front bumper and fender by flat head screwdriver. Unscrew the plastic clip between bumper and fender by cross head screwdriver.



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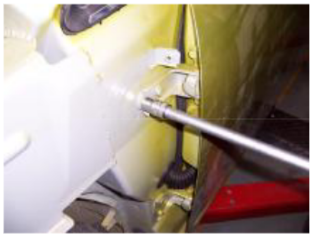
4.37 Unscrew two fixing bolts between fender and bumper by No. 10 socket. Torque is 10±1 N.m



4.38 Unscrew two fixing bolts between fender and body underside by No.10socket. Torque is 10±1 N.m



4.39 Disassemble two fixing bolts between door hinge and body by No. 13socket and take away the front door assembly. Torque is 36±4 N.m



5 Assembly and adjustment steps

5.1 Assemble door lock

5.1.1 Insert cable plug into lock.

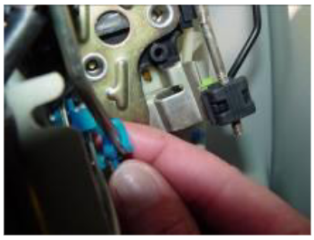


5.1.2 Block the clip of inside opening cable onto lock.

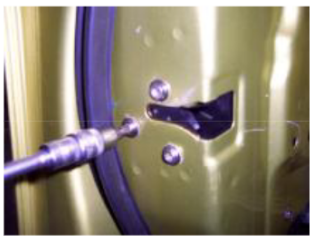


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5.1.3 Fix the safety lock pull rod onto lock.



5.1.4 Fix the lock onto door and fasten the fixing bolt, and it is best to use thread locker.
Torque is 9±1Nm.



5.1.5 Assemble seal gasket to door handle and lock core.



5.1.6 Assemble door inside handle fixing holder and fasten the screw. Installation torque is 8±1 **Nm**



5.1.7 Insert rear end of handle first and then the front end.



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5.1.8 Insert handle pull rod connection pin into handle.



5.1.9 Insert lock core.



5.1.10 Fasten lock core fixing bolt.
Installation torque is 9±1 **Nm**



5.1.11 Insert lock core pull rod into lock.



5.1.12 Insert handle pull rod into lock.

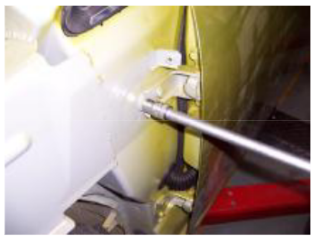


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5.2 Door adjustment

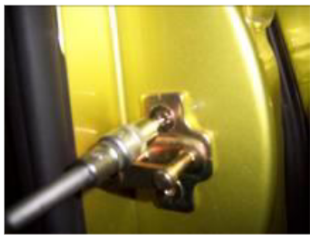
5.2.1 After the door is assembled, check the horizontal and vertical clearance and closing force. If the clearance is not correct or the closing force is too big, adjust it immediately. The adjustment of door clearance see (body size)

5.2.2 The clearance adjustment can be finished by move the hinge fixing bolts on body.



5.2.3 The door closing force adjustment can be finished by adjusting front door lock striker position.

Torque is 9±1Nm。



5.3 Adjustment of door glass regulator system.

5.3.1 Check the window regulator system after this system is assembled. The time of the glass from the lowest position to the highest position should be around 7s. If the time is too long, check the regulator in time.

5.3.2 Check window regulator motor.

5.3.3 Check if there is oil or dust inside of glass slot which cause big resistance force when the glass is rose.

Note: Do not lubricate the glass slot or glass to avoid dust absorption.

5.3.4 Check if there is deviation of glass guide position, which cause the rising radian is not consistent to block the glass. The position of glass guide can be adjusted by the guide fixing bolts.

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II. Disassembly/Assembly and Maintenance of Rear Door

1 Preparation

Flat head screwdriver, cross head screwdriver, No.7, 10, 13 sleeves and pliers.

2 Note

2.1 To prevent accident please wear labor protection appliance.
2.2 Break down accumulator to avoid damage the electrical units.
2.3 Use the correct method to disassemble and assemble the glass to avoid damage.

3 Disassembly steps

3.1 Disassemble door weather strip. The fixing clip is one type, press upside of the strip during disassembly and push it to one direction until one corner of the clip is exposed. And push the seal to opposite direction until another corner is exposed. Do not drug the seal at its perpendicular direct which will damage the weather strip.
3.2 Prize two rear door glass slot protecting boards by flat head screwdriver.
(See front door disassembly to disassemble weather strip)



3.3 Unscrew armrest cover fixing screws by cross head screwdriver.



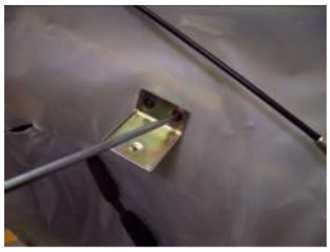
3.4 The fixing clip of rear door trim panel is inside hiding clip, prize the clip around trim panel by screwdriver equably.



3.5 Take out he inside opening cable fixing clips, and take off door protecting panel assembly.

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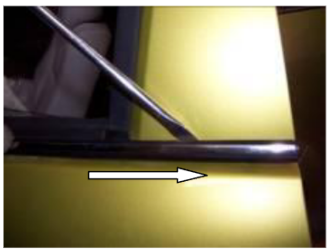
3.6 Unscrew two armrest bracket fixing screws by cross head screwdriver.



3.7 Take off the water proof plastic clothing by hand.



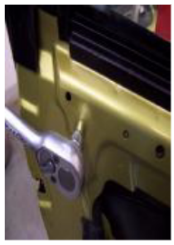
3.8 Prize rear door outside weather strip fixing clips by flat head screwdriver and take out the strip from one end. Take out inside weather strip. Pay attention to that outside strip has metal slot, and it will deform the metal slot if pull out the strip from perpendicular direction.



3.9 Make the glass to its lowest position and loose two glass fixing screws by cross head screwdriver.
Torque is 5±0.5 N·m



3.10 Loose front and rear glass guide fixing bolts by No. 10 and take out of the glass guide. Take out glass assembly by hand. attention that stand outside of car door and take the narrow side and then the wide side.
Torque: Upside is 2±0.5 N·m
Lower side is 9±1 N·m





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3.11 Loose the fixing bolts to fix the window regulator motor and guide, and take out the window regulator assembly.
Torque is 7±1 N.m



3.12 Unscrew four sound box fixing screws by cross head screwdriver, and take out sound box assembly.
Installation torque is 1.5±0.5N.m



3.13 Disassemble rear door lock assembly according to the order to disassemble front door lock. (Disassembly of rear door lock)

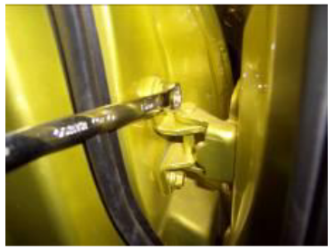


3.14 Unscrew rear door stopper fixing bolts by No. 13 sleeve spanner. (Disassembly of stopper and hinge)





3.15 Loose hinge fixing bolts by No. 13 spanner and disassemble rear door assembly. Torque is 36±4 N.m



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4 Assembly and adjustment steps

4.1 Assembly of rear door glass

4.1.1 Assemble window regulator slot.

4.1.2 Assemble window regulator assembly onto the door.

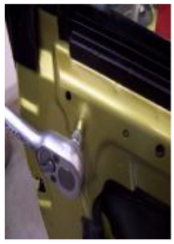
4.1.3 Put the narrow side of the glass into door from outside of the door and then put the wide side into the door.

4.1.4 Fix the glass onto window regulator by screw.



4.1.5 Connect glass regulator switch plug and rise the glass。to its highest position.

4.1.6 Assembly glass guide.





4.1.7 For other assembly steps, please refer to disassembly steps.

4.1.8 Rear door clearance can not be adjusted by hinge adjustment. If the door clearance is not correct, the only way to correct it is to correct body
(See body size)

4.1.9 Please refer to front door assembly and disassembly for other adjustment.

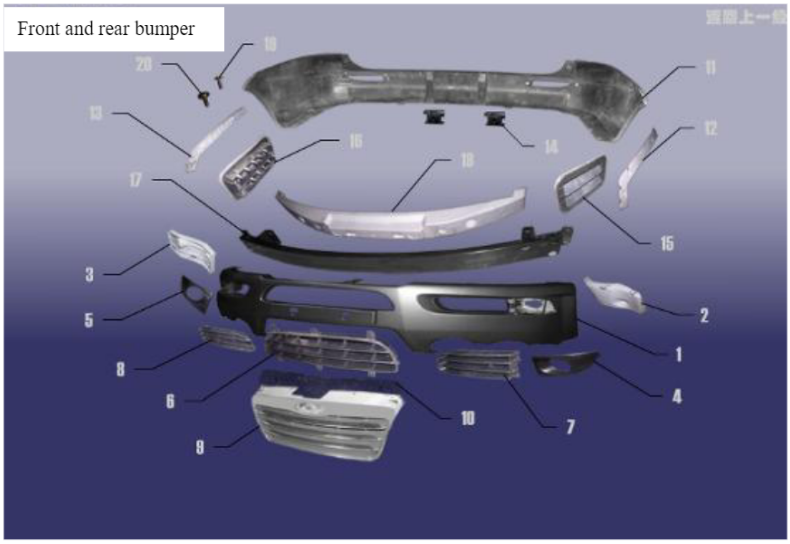
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Chapter Four Disassembly/Assemlby and Maintenance of the Front and Rear Bumper

I. Disassembly/assembly and maintenance of front bumper

1 System diagram

Front and rear bumper



2 Preparation

Tool: No. 7 and No10 sleeve, cross head screwdriver and flat head screwdriver.

3 Note

3.1 To prevent accident, please wear labor protection appliance.
3.2 To prevent scratch the bumper surface paint.
3.3 Carry out the disassembly and assembly at low temperature environment, do not use big force, otherwise the bumper will be broken.



4 Disassembly steps

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4.1 Unscrew four fixing bolts for grille web cover water tank cross beam by No. 10 sleeve.（See right figure）

4.2 Loose fixing bolts of bumper on water tank cross beam by No. 10 sleeve.
Torque is 11N·m



4.3 Unscrew bumper two fixing screws at lower cross beam by flat head screwdriver.



4.4 Unscrew mudguard two fixing bolts under bumper by No.7 sleeve.
Installation torque is 2±0.5 **Nm**



4.5 Unscrew mudguard fixing bolt beside the bumper by No. 7 sleeve.
Installation torque is 2±0.5N.m



4.6 Pull out bumper by hand from fender fixing base.

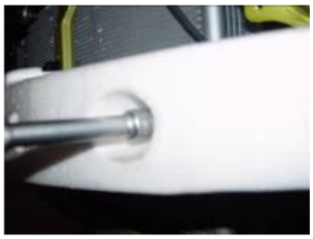


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4.7 Pull out fog lamp plug by hand, and take out bumper assembly.



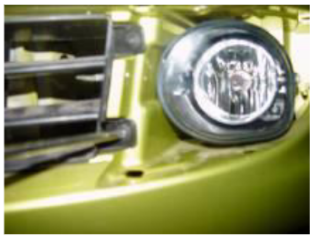
4.8 Unscrew two bolts which fix shock absorber foam onto bumper reinforcement member by No. 13 sleeve.
Torque is 3N·m



4.9 Unscrew three front bumper reinforcement member fixing bolts and one fixing nut by No. 13 sleeve.
Torque is 25±3N.m



4.10 Unscrew bumper both sides air intake grille fixing screws by cross head screwdriver.



4.11 Unscrew six bumper middle air intake grille fixing screws by cross head screwdriver.



5 Assembly and maintenance

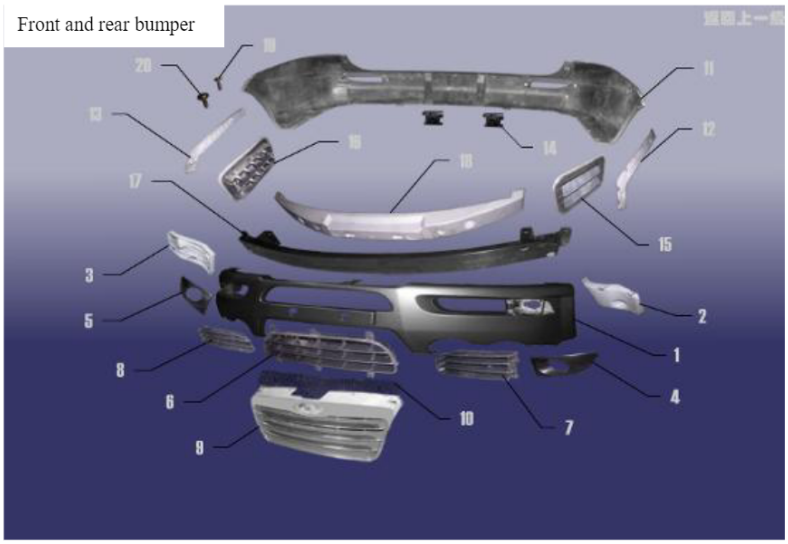
5.1 The installing steps are reverse to those for removal.

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II. Disassembly/assembly and maintenance of rear bumper

1 System diagram

Front and rear bumper



2 Preparation

Tool: cross head screwdriver, flat head screwdriver, No. 7 sleeve.

3 Note

3.1 To prevent accident, please wear labor protection appliance.
3.2 To prevent scratch the bumper surface paint.
3.3 Carry out the disassembly and assembly at low temperature environment, do not use big force, otherwise the bumper will be broken.

4 Disassembly steps

4.1 Open luggage compartment lid, unscrew two fixing clips on rear bumper by cross head screwdriver (e.g. left side)



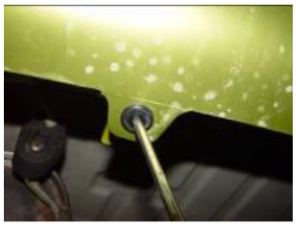
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4.2 Loose fixing screw and clip between rear bumper and rear mudguard by No. 7 sleeve and cross head screwdriver.
Torque is 7N·m

4.3 Loose two lowest fixing screws between rear mudguard and rear bumper by No. 7sleeve.



4.4 Loose fixing clip between rear bumper and body by cross head screwdriver.



4.5 Prize rear bumper fixing clip on rear fender by hand.



4.6 Take off plugs of rear fog lamp and reverse radar probe cable. And take off rear bumper assembly.





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4.7 Prize reverse radar probe by flat head screwdriver from bumper outside.



4.8 Loose two rear fog lamp fixing screws by cross head screwdriver and take out of fog lamp assembly.



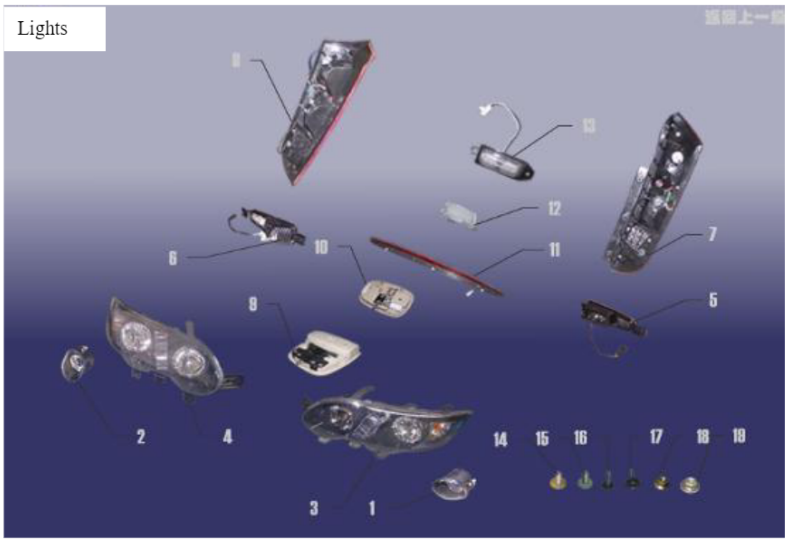
5 Assembly steps

The installing steps are reverse to those for removal.

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Chapter Five Disassembly/Assembly and Maintenance of Front Headlamp and Fog Light

1 System diagram



2 Preparation

Tool: No. 10 sleeve and No. 7 open end wrench, cross head screwdriver and flat head screwdriver.

3 Note

3.1 To prevent accident, please wear labor protection appliance.
3.2 To prevent scratch the bumper surface paint.
3.3 Carry out the disassembly and assembly at low temperature environment, do not use big force, otherwise the bumper will be broken
3.4 Pay attention to the clip on the bumper during headlamp is disassembled, big force will damage the clip.
3.5 Pay attention to not scratch the headlamp surface when disassemble and place it .

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4 Disassembly steps for headlamp



4.1 Disassemble front bumper assembly first. (See disassembly/assembly of bumper)

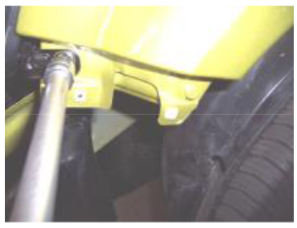
4.2 Loose headlamp two fixing bolts on engine hood cross beam by No. 10 sleeve. Torque is 4.0±0.5N·m



4.3 Loose headlamp fixing bolt on AC condenser by No. 10 sleeve.
Torque is 4.0±0.5N·m



4.4 Loose clip seat fixing screw which is used to fix the bumper by cross head screwdriver.



4.5 Loose headlamp fixing bolt by No. 10 sleeve.
Installation torque is 5±1 **Nm**



4.6 Unplug headlamp cable plug and take out the headlamp assembly.



4.7 Screw off headlamp high beam seat cover.

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4.8 Press bulb fixing clip by hand and turn it upward, take the bulb out.



4.9 Rotate the headlamp motor of 30 degrees clockwise, and take out the motor and cable plug.

Note: The motor can not be maintained, if make sure there is problem on the motor, open the motor cover to see if there is gear falling down or block phenomenon. Replace with a new headlamp assembly if the problem can not be solved by adjustment.



4.10 Screw off low beam bulb cover by hand.



4.11 Press the bulb fixing clip by hand and take out bulb assembly.



5 Disassembly of fog lamp

5.1 Disassemble bumper assembly.（Refer to disassembly of bumper）

5.2 Prize fog trim cover assembly by hand.



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5.3 Loose two fog lamp fixing nuts by No. 7 sleeve.



5.4 Take out fog light assembly.

6 Installation and adjustment of headlamp

6.1 Assembly steps of headlamp

The installing steps of headlamp are reverse to those for removal.

6.2, Introduction of headlamp function

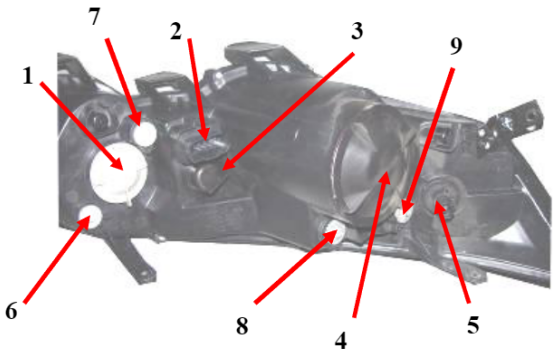
6.2.1, Front view



See right figure:

1 Low beam light
2 Position light
3 High beam
4 Turn light

6.2.2 Back view



See right figure:

1 Low beam light holder
2 Plug for low, high and position light
3 Position light holder
4 High beam light holder
5 Turn light holder and plug
6 Low beam up/down adjusting nut
7 Low beam left/right adjusting nut
8 High beam up/down adjusting nut
9 High beam left/right adjusting nut

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6.3 Adjustment for headlamp beam

6.3.1 Headlamp uses half closed light combination type. So it is easy to be maintained; it is halogen light with less mechanism and high luminous intensity, which will prolong bulb life.

6.3.2 The correctness of headlamp adjustment will influence the driving safety. So it needs special device to adjust the beam. Pay attention to law regulations and verify the following items before adjustment:

a. Tire pressure should be correct;

b. Car is unload (except for spare tire and equipped tools, and include driver weigh for sedan);

c. Park the car on horizontal road or place;

d. The lens surface of headlamp should be clean;

e. Check the power supplies if is working correctly, and the bulb installed correctly.

Move the adjustable mechanism on the light can adjust the beam up/down and left/right, operate it with international standard. Adjuster for rough and fine up/down adjustment is one unit on casing upside; adjuster for left/right on casing middle and lower side.

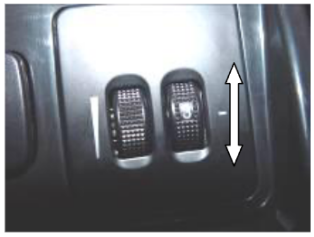
It needs take off headlamp cover to adjust right headlamp. Same to the symmetrical lay of left headlamp adjustment mechanism and right headlamp.

6.3.3 Headlamp beam adjustment can be realized by moving beam adjusting nut or power adjusting button (if it is equipped).

6.3.3.1 Insert cross head screwdriver to related adjusting holes to adjust the beam.



6.3.3.2 Adjust the beam up and down by power adjusting button on the instrument panel.



6.3.3.3 The norm central height for Chery V325 headlamp:
Low beam：717mm；High beam：755mm。

6.3.3.4 Adjust the headlamp beam according to international standards:

During check headlamp low beam lighting position, irradiate the headlamp to the screen 10m far away from headlamp, for low beam of passenger car, angle of cut-off line or height of midpoint height should be 0.7H～0.9H （H is the midpoint height of headlamp, the same of below）, other motor vehicles(except for tractor) should be 0.6H～0.8H. Deviation to left of horizontal direction position headlamp low beam of motor vehicle (except for the vehicle with one front headlamp)is not allowed to exceed 170mm，not exceed 350 mm to right.（From national standard）

6.3.3.5 Please input the standard data got from above into headlamp beam adjusting device for future usage.

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Chapter Six Disassembly/Assembly of Roof and Scuttle

I. Disassembly/Assembly of Roof

1 Preparation

Tool: No. 7, No. 8, No. 13 and No. 17 socket spanner, cross head screwdriver and flat head screwdriver.

2 Note

2.1 Use correct force during operation to prevent damage the parts and it is not allowed to operate with too big force.

2.2 Protect the part surface from scratching during the disassembly/assembly of inner trim.

3 Disassembly/assembly of sunvisor

3.1 Disassembly steps

3.1.1 Loose left front sunvisor two fixing screws by cross head screwdriver and the torque is 3±1Nm



3.1.2 Pull out left front sunvisor cable plug.

3.1.3 Take away left front sunvisor.

3.2 Assembly steps

The installing steps are reverse to those for removal.

3.3 Disassembly/assembly of right front sun visor, please refer to that of left front sunvisor.

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4 Disassembly/assembly of ceiling handle

4.1 Disassembly steps

4.1.1 Prize handle fixing screw cover by flat head screwdriver.



4.1.2 Disassemble fixing screw by cross head screwdriver. Torque is 9±3Nm



4.1.3，Take off the handle.

4.2 Assembly steps

The installing steps are reverse to those for removal.

4.3 Disassemble/assemble other handles refer to right front handle.

5 Disassembly/assembly of front ceiling light

5.1 Disassembly steps

5.1.1 Prize front ceiling light cover by flat head screwdriver.
Note: do not scratch part surface.



5.1.2 Loose front ceiling light fixing bolt. Torque is 1.5±0.5Nm



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5.1.3 Open glasses box and disassemble fixing screw. Torque is 1.5±0.5Nm



5.1.4 Take off cable inserting.



5.1.5 Take off front ceiling light assembly.

5.2 Assembly steps

The installing steps are reverse to those for removal.

6 Disassembly/assembly of rear ceiling light

6.1 Disassembly steps



6.1.1 Prize rear ceiling light trim cover by flat head screwdriver. Note: do not scratch trim part.

6.1.2 Unscrew rear ceiling light fixing bolt. Torque is1.5±0.5Nm



6.1.3 Take off rear ceiling light.

6.2 Assembly steps

The installing steps are reverse to those for removal.

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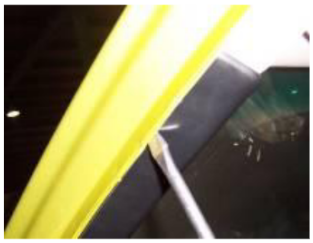
7 Disassembly/assembly of A pillar protecting board

7.1 Disassembly steps

7.1.1 Disassemble A pillar protecting board lower trim cover.



7.1.2 Prize A pillar protecting board by flat head screwdriver.



7.1.3 Take out A pillar protecting board.

7.2 Assembly steps

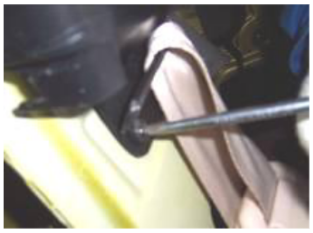
The installing steps are reverse to those for removal.

8 Disassembly/assembly of B pillar protecting board

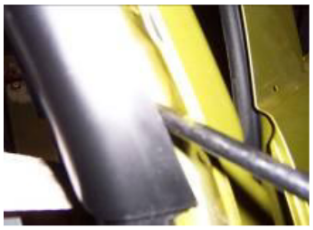
8.1 Disassembly steps

8.1.1 Disassemble B pillar lower protecting board (refer to disassembly/assembly of seat belt)

8.1.2 Disassemble B pillar upper protecting board fixing screw by cross head screwdriver.



8.1.3 Prize B pillar upper protecting board by flat head screwdriver.
Note: protect the trim part surface from scratching.



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8.2 Assembly steps

The installing steps are reverse to those for removal.

9 Disassembly/assembly of C pillar and D pillar protecting board

9.1 Disassembly steps

9.1.1 Unscrew luggage compartment glove box two fixing bolts by No. 7 socket spanner. Take out glove box.
Torque is 1.5±0.5N.m



9.1.2 Unscrew glove box rear panel assembly fixing bolt by No.8 socket spanner. Take out glove box panel.
Torque is 5±1 N.m



9.1.3，Unscrew rear seat lower fixing bolt by No. 17 socket spanner. Take out rear seats.
Torque is 25±3 **Nm**



9.1.4 Loose C/D pillar lower protecting board fixing screws (totally two) by No. 10 sleeve.
Torque is 9±3**Nm**

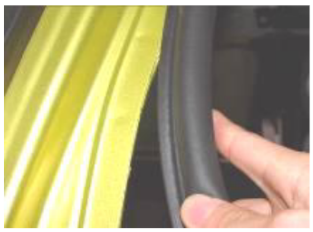


9.1.5 Prize C/D pillar lower protecting board fixing clip by flat head screwdriver.



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9.1.6 Take off rear door opening rubber seal by hand.



9.1.7 Prize C/D pillar lower protecting board by screwdriver, take off C/D pillar protecting board.



9.1.8 Prize D pillar upper protecting board and take off D pillar upper protecting board.



9.1.9 Prize C pillar upper protecting board and take off C pillar upper protecting board.



9.2 Assembly steps

The installing steps are reverse to those for removal.

10 Disassembly/assembly of the roof

10.1 Disassembly steps

10.1.1 Disassemble left and right sunvisors.
(Refer to disassembly/assembly of sunvisors)

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10.1.2 Disassemble front ceiling light (Refer to disassembly/assembly of front ceiling light)

10.1.3 Disassemble rear ceiling light. (Refer to disassembly/assembly of rear ceiling light)

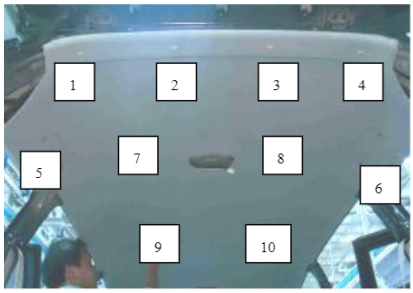
10.1.4 Disassemble all the roof handles. (Refer to disassembly/assembly of roof handle)

10.1.5 Disassemble A/B/C/D pillar protecting board. (Refer to disassembly/assembly of A/B/C/D pillar protecting board)

10.1.6 Take away scuttle trimming rubber strip by hand.



10.1.7 Disassemble roof clips (totally10 pieces) by flat head screwdriver, and take off roof.



10.2 Assembly steps

The installing steps are reverse to those for removal.

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II. Disassembly of Scuttle Assembly

1 Preparation

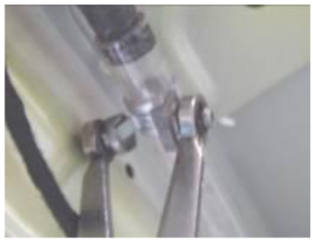
Tool: No.10, No.13 and No. 17 socket spanner, clamp pliers

2 Disassembly steps

2.1 Disassemble roof（see disassembly of roof）.
2.2 Take off scuttle cable inserting.



2.3 Disassemble scuttle water exhaust pipe by clamp pliers(totally 4 pieces)



2.4 Loose scuttle fixing bolts. (totally 10 pieces)
Installation torque is 9±1**Nm**



2.5 Take off scuttle assembly.

3 Assembly steps

The installing steps are reverse to those for removal.

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III. Decomposing of Scuttle Assembly

1 Preparation

Tool: Torx5，Torx10，Torx20，cross head screwdriver and flat head screwdriver.

2 Disassembly/assembly of scuttle glass

2.1 Disassembly steps

2.1.1 Operate the scuttle to completely open status.



2.1.2 Take away scuttle trimming strip by pushing it backwards by hand.



2.1.3 Unscrew the scuttle fixing bolts by cross head screwdriver (loose two middle screws first and then loose the other four)



2.1.4 Take off the scuttle glass by hand from the car top.



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2.2 Assembly steps

2.2.1 Operate the scuttle switch to move the sliding mechanism without glass to complete opening position, put glass into middle of sliding mechanism support bar.
(Note: the side with mark should be on the back)



2.2.2 Fasten scuttle glass six fixing bolts by cross head screwdriver; first slightly fasten and then pull the glass forward slightly and then fasten them one by one.



2.2.3 Operate the scuttle switch to move the scuttle to its complete close status.



2.2.4 Begin to adjust and fasten these middle two fixing nuts at the same time to drug the glass by hand. Fasten the other four screws at the same time of move the glass to correct height.
Torque:



2.2.5 Check the switch program of the scuttle if is correct.
Remarks: after the installation check the glass height/ starting noise and collision phenomenon.

2.2.6 Assemble trim strip after the first time adjustment.
2.2.6.1 Operate the scuttle to completely open status.



2.2.6.2 Block the scuttle trim strip to sliding mechanism bracket bar by hand.

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2.2.6.3 At last, check if the trim strip is blocked onto the fixing bar



2.2.7 Regulate the scuttle switch program, starting program and noise by power system to make sure that there is no abnormal.

3 Disassembly and assembly of scuttle motor and scuttle control unit

3.1 Disassembly steps

3.1.1 Operate the scuttle to its completely close position (named scuttle original position).

3.1.2 Disassembly of roof.（refer to disassembly of roof）

3.1.3 Brake power cable of accumulator, and disconnect the cable of scuttle motor and scuttle control unit.



3.1.4 Disassemble three scuttle motor fixing bolts by cross head screwdriver to take off scuttle motor.



3.1.5 Disassemble scuttle control unit fixing bolt by cross head screwdriver and take off scuttle control unit.



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3.2 Assembly steps

Note: Before assembling the scuttle motor, the scuttle must be at the position of completely closed.

3.2.1 Put scuttle motor onto bracket.
Note: assemble motor gear onto the middle position of two pull cable gears.



3.2.2 Fasten scuttle motor three fixing bolts by cross head screwdriver.



3.2.3 Push scuttle control unit into along scuttle frame and fix the cable onto scuttle control unit slot.



3.2.4 Fasten the fixing bolts of scuttle control unit, and fix it again by band.



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4 Disassembly/assembly of scuttle sun visor

4.1 Disassembly steps

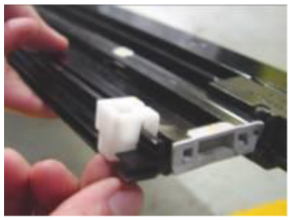
4.1.1 Disassemble the roof. (See disassembly/assembly of roof)

4.1.2 Disassemble scuttle glass assembly (See disassembly/assembly of scuttle glass)

4.1.3 Loose scuttle central bracket fixing screw by TORX tool and take out bracket.



4.1.4 Take away scuttle sunvisor stopper by hand.



4.1.5 Push scuttle sunvisor out from sunvisor slide guide, take off scuttle sunvisor.

4.2 Assembly steps

The installing steps are reverse to those for removal.

IV. Guide for scuttle maintenance

1 Reset scuttle control unit

1.1 Scuttle control unit looses primary memory will cause faults.

1.1.1 Scuttle can not be completely closed and opened or stretched. Sometimes, there is shaking phenomenon during the process from stretch to close.

1.1.2 Scuttle is opened or stretched or closed can not reach its original position.

1.1.3 Scuttle can not actuate the function of pushing the button and close/open the scuttle.

1.1.4 Scuttle mode can not control scuttle running.

1.2 Possible reason analysis

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1.2.1 The battery is replaced when the scuttle is not at the original position;
1.2.2 Break the power of scuttle control unit suddenly during scuttle running;
1.2.3 When the scuttle control unit can not resume to right position;
1.2.4 Unplug the power supply during scuttle running;

1.3 Method to recall scuttle control unit
1.3.1 Run the scuttle glass to completely open status, press the opening button more than 15s continuously, by this way, the scuttle control unit will be recovery to original memory position.
1.3.2 Confirm: Press opening function button, if the scuttle is started correctly, means the control unit is recovery to its correct original position.

2 Typical fault diagnosis and trouble shooting

2.1 Scuttle looses it original position

2.1.1 Fault phenomenon:
The scuttle can not be opened and closed correctly or can not be closed to correct position; the scuttle can not actuate correct running process.

2.1.2 Reason analysis:
See chapter 1.2

2.1.3 Solve method:
Reset the scuttle control unit (Refer to chapter1.3)

2.2 Water leaking of scuttle assembly

2.2.1 Fault phenomenon:
There is water leaking from outside to scuttle molding when the scuttle is closed completely.

2.2.2 Analysis and checking:
Check the clearance between scuttle glass and roof hole; check flow guiding pipe conditions; check water guiding system conditions.

2.2.3 Solve method:
2.2.3.1 Reassemble the scuttle glass referring to the disassembly/assembly steps of scuttle glasses, and make sure the clearance between glass and roof hole is within the correct tolerance.
2.2.3.2 Readjust the connection status of four water guiding pipe, and make sure there is no water leaking.
2.2.3.3 Check the water guiding system and make sure there is no damage, if there is, replace the damaged.

2.3 Strange noise of scuttle assembly

2.3.1 Fault phenomenon:
There is strange noise when the scuttle is running.
2.3.2 Analysis and check:

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2.3.2.1 Check the position of scuttle; check clearance between scuttle and roof holes; check scuttle motor. If there is strange noise, find the reason of that.

2.3.2.2 Check if there is damage of scuttle weather strip; check if there is friction of the scuttle guide and find the reason of strange noise.

2.3.3 Solve method:

2.3.3.1 Reassemble the scuttle glass referring to glass assembly steps and make sure the clearance between glass and roof holes should be at the correct tolerance.

2.3.3.2 Replace the motor with strange noise (Refer to disassembly/assembly of scuttle motor).

2.3.3.3 Replace with new scuttle inner trim strip (Refer to disassembly/assembly of scuttle glass)

3 Frequently appeared fault and their check and maintenance methods

Fault	Reason	Maintenance method
Water leaking	Water guide pipe is block or folded	Check water guide pipe
	Spread between scuttle glass and roof hole is too big or glass height not good	Adjust the glass relative position
Wind noise	When spread between scuttle glass and roof hole is big or glass height not good, or wind deflector does not work.	Adjust the glass relative position to correct
Not correct start and running	Connection cable, fuse or grounding cable not good	Check connection cable, fuse and grounding cable
	Scuttle control unit, scuttle motor not good	Replace scuttle control unit and scuttle motor after checking
	Sunvisor fall down from sliding guide and weather strip is damaged	Readjust sunvisor position. Assembly or replace weather strip.
	There are something inside of sliding guide	Check and get rid of something
Wrong start	There is guide friction when the sunvisor fall down from guide or weather strip is damaged.	Reassembly or readjust the sunvisor and weather strip (replace damaged parts)
	(A.T.S)anti clamping function does not work	Check if there is collision between body and wind deflector, and loose the tensioning spring, check and get rid of something from guide.
	Scuttle motor does not work	Replace motor
Noise when start	It is stopped caused by sun visor fall down from guide or weather strip is damaged	Reassembly or readjust the sun visor and weather strip (replace damaged parts)
	There is collision between water guide pipe and body	Stick sponge damping around water guide pipe
	Collision between roof and scuttle frame	Paint glass cement or plastic glue between roof and scuttle frame
	Spread between scuttle glass and roof hole is too big	Readjust glass height and relative position

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	or glass height is not good	

4 Maintenance note and daily service

4.1 Keep everything clean during maintenance, especially for sunvisor and weather strip.

4.2 Do not let scuttle screw fall down into sliding guide during scuttle disassembly, it will influence the scuttle running correctly.

4.3 Be care to deal with the scuttle(especially for perpendicular direction), otherwise it will damage the important parts inside of the sliding guide.

4.4 Operate the scuttle to completely close condition when it is need to break down the power to scuttle during car maintenance.

4.5 The scuttle can not actuate sliding down and raise up at the same time: so at the condition of sliding down, the scuttle can not be raised up; and at the condition of raise up, the scuttle can not be slide down. It is necessary to shut down it and then start raise up or sliding down.

4.6 You should not continue push the button when the scuttle is completely opened or closed, otherwise it will cause scuttle motor and mode fault.

4.7 Clean the scuttle sliding guide at a fixed period by clean water to wash away the dust and other particles inside of guide and rubber strip.

4.8 It may damage the scuttle glass and motor when you open the scuttle which is in a freezing or snow covered conditions.

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Chapter Eight Disassembly/Assembly of Instrument Panel

I. Disassembly of instrument panel accessories

1 Preparation

Tool: socket spanner, cross head screwdriver, flat head screwdriver
Note: disconnect accumulator cathode before disassemble electrical parts

2 Disassembly/assembly of central control panel and fog lamp switch

2.1 Disassembly steps:

2.1.1 Disassemble central ventilator assemblies beside of central control panel by hand.



2.1.2 Disassemble six screws to fix central control panel and instrument panel.
Tool: cross head screwdriver
Installation torque: 1.5±0.5**Nm**



2.1.3 Unplug cigar lighter, switches for front and rear fog lamps, double switch, rear windscreen defroster switch plugs.



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2.1.4 Take off central control panel.



2.2 Assembly steps:

The installing steps are reverse to those for removal.

3 Disassembly/assembly of AC control panel



3.1 Disassembly steps

3.1.1 Disassemble central control panel
（Refer to disassembly steps of central control panel）

3.1.2 Unscrew 4 AC control panel fixing screws by cross head screwdriver and take off rear plug, take off AC control panel.
Installation torque: 1.5±0.5 **Nm**

3.2 Assembly steps

The installing steps are reverse to those for removal.

4 Disassembly/assembly of audio



4.1 Disassembly steps

4.1.1 Disassemble central control panel
(Refer to disassembly steps for central control panel)

4.1.2 Disassemble 4 audio fixing bolts by No.10 socket spanner. Unplug rear plug and antenna, take off audio control panel.
Installation torque: 9±3 **Nm**

4.2 Assembly steps

The installing steps are reverse to those for removal.

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5 Disassembly/assembly of front ashtray

5.1 Disassembly steps



5.1.1 Disassemble central control panel
(Refer to disassembly steps for central control panel)

5.1.2 Unscrew 4 front ash tray fixing screws, take off ash tray.
Installation torque: 1.5±0.5**Nm**

5.2 Assembly steps

The installing steps are reverse to those for removal.

6 Disassembly/assembly of glove box

6.1 Disassembly steps



6.1.1 Disassemble 2 engine hood opening handle fixing bolts by No. 10 spanner.

6.1.2 Disassemble engine hood opening cable





6.1.3 Disassemble glove box and separate rear plugs (for meters brightness and headlamp brightness); disassemble AC interior temperature fixing screw and take off glove box.

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6.1.4 Disassemble 2 codriver side glove box fixing screws and take off codriver side glove box.
Installation torque is 2±0.5**Nm**



6.2 Assembly steps

The installing steps are reverse to those for removal.

7 Disassembly/assembly of combined instrument

7.1 Disassembly steps

7.1.1 Prize combined instrument side trim plate by screwdriver carefully.



7.1.2 Unscrew combined instrument 3 outside frame fixing screws by cross head screwdriver.



7.1.3 Take off combined instrument outside frame

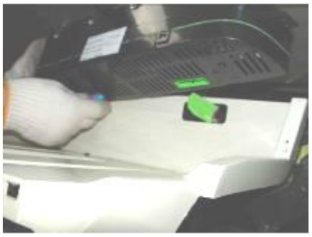


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7.1.4 Disassemble 3 fixing screws which fix combined instrument and instrument panel main body by cross head screwdriver.
Installation torque is 1.5±0.5 **Nm**



7.1.4 Unplug 2 combined instrument rear plug and take off the combined instrument.



7.2 Assembly steps

The installing steps are reverse to those for removal.

8 Disassembly of steering wheel

8.1 Disassembly steps

8.1.1 Prize two caps beside of steering wheel.



8.1.2 Use TORX T40 disassemble 2 air bag fixing bolts.
Installation torque is 1.6±2**Nm**



8.1.3 Take away air bag



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8.1.4 Unplug horn plug



8.1.5 Disassemble steering wheel fixing nut by No.22 sleeve.
Installation torque is 30±3 Nm



8.1.6 Pull the steering wheel out by extractor.



8.2 Assembly steps

The installing steps are reverse to those for removal.

9 Disassembly/assembly of headlamp combined switch, wiper switch, ignition switch, coil cable

(Please refer to disassembly/assembly of steering column in Chassis Service Manual)

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II. Disassembly of Instrument Panel

1 Disassembly/assembly of instrument panel

1.1 Disassembly steps

1.1.1 Disassemble steering wheel and combined switch
(Refer to disassembly of steering wheel)

1.1.2 Disassemble glove box
(Refer to disassembly of glove box)

1.1.3，Disassemble audio, AC control panel
(Refer to disassembly of audio and AC control panel)

1.1.4 Disassemble front ash tray
(Refer to disassembly of front ash tray)

1.1.5 Disassemble combined instrument
(Refer to disassembly of combined instrument)

1.1.6 Disassemble armrest box and vice instrument panel (Refer to disassembly of armrest box and vice instrument panel)
1.1.7 Disassemble A pillar upper and lower trim plate.



1.1.8 Disassemble left front and right front door opening weather strip



1.1.8 Prize sun light sensor out carefully by flat head screwdriver.

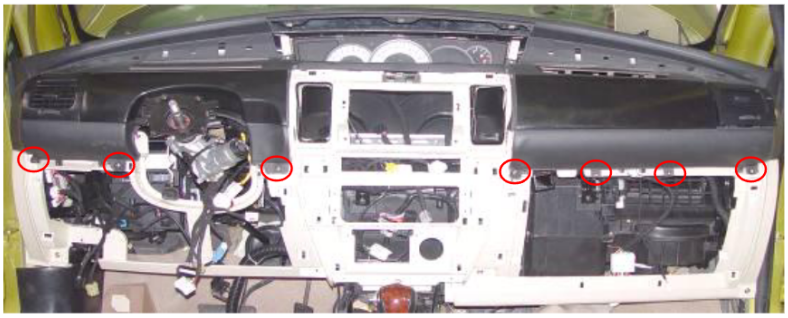


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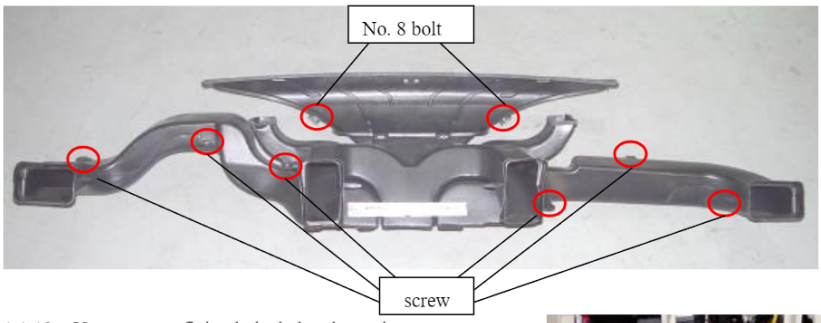
1.1.9 Unplug the plug behind of sun light sensor.



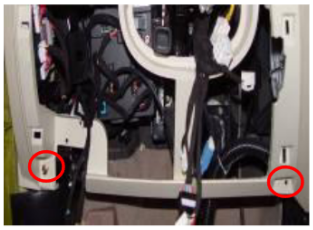
1.1.10 Disassemble 7 fixing screws which fix upper instrument panel and lower instrument panel body, take off up instrument panel assembly left and right ventilator. Installation torque is 1.5±0.5**Nm**



1.1.11 Unscrew 6 fixing screws and 2 fixing bolts of low ventilator assembly, take off instrument panel AC ventilator assembly.
Tool: cross head screwdriver, No.8 socket spanner. Installation torque is 1.5±0.5 **Nm**



1.1.12 Unscrew two fixing bolts below lower instrument panel at the driver side by No. 8 socket spanner.
Installation torque is 7±1 **Nm**

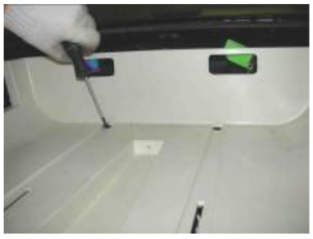


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1.1.13 Unscrew two fixing bolts above lower instrument panel at the driver side by No. 8 socket spanner.
Installation torque is 7±1 **Nm.**



1.1.13 Unscrew 2 fixing screws on the middle of lower instrument panel. Installation torque is 7±1 **Nm**



1.1.14 Unscrew two fixing bolts below lower instrument panel at the codriver side by No. 8 socket spanner.
Installation torque is 7±1 **Nm.**



1.1.15 Unscrew 3 fixing bolts above lower instrument panel at the driver side by No. 8 socket spanner.
Installation torque is 7±1 **Nm.**



1.1.16 Take off lower instrument panel body.

1.2 Assembly steps of instrument panel

The installing steps are reverse to those for removal.
Note:
1.2.1 The ventilator of instrument should be coincide with AC air outlet, there should be no incorrect assembly, no air leaking, no interference between instrument panel air passage and instrument cross beam, and evaporator, which will influence the instrument panel assembly.

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1.2.2 There should be no interference between windscreen and instrument panel, the clearance to windscreen should be even.

1.2.3 Clearance between instrument panel and body sides should be even and can meet door weather strip assembly requirements

1.2.4 Glove box should be flexible for opening and closing, no interference, no block or lock loose.

1.2.5 Assemble the middle passage cover plate tightly, clearance between sub instrument panel body, armrest box should be even and less than 0.5mm.

1.2.6 Fasten torque of sub instrument panel front, middle end and rear end of armrest box, middle passage cover plate middle and rear end fixing bolt is 2±0.5N.

1.2.7 Fasten torque for vent of instrument panel and upper and lower body fixing screw is 5±0.5N。

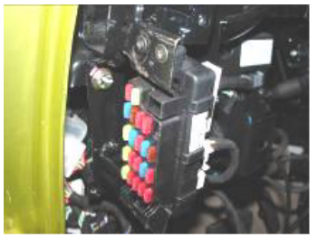
2 Disassembly of instrument cross beam

2.1 Disassembly steps

2.1.1 Disassemble instrument panel assembly (Refer to disassembly of instrument panel)

2.1.2 Disassemble the plugs between instrument panel cross beam cable and every elements, disassemble instrument cable (Refer to disassembly/assembly of instrument cable)

2.1.3 Disassemble 2 instrument panel fuse box fixing screws by cross head screwdriver, take off fuse box.
Installation torque is 1.5±0.5 **Nm**



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2.1.4 Disassemble connecting bolts between steering column and cross beam by No. 10 socket spanner.
Installation torque is 25±3**Nm**



2.1.5 Disassemble 2 bolts below steering column by No. 10 socket spanner.
Installation torque is 25±3 **Nm**



2.1.6 Disassemble 3 screws between cross beam bracket and evaporator by cross head screwdriver.
Installation torque is 1.5±0.5 **Nm**





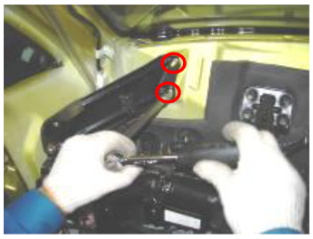


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2.1.7 Disassemble 4 fixing bolts between cross beam front end and car body by No. 13 socket spanner.
Installation torque is 20±2 **Nm**



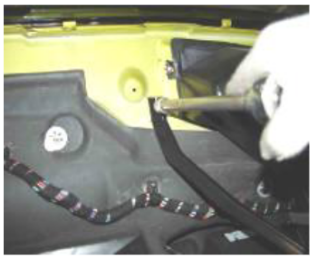
2.1.8 Disassemble two fixing nuts marked in right figure by No.13 sleeve.
Installation torque is 20±2 **Nm**



2.1.9 Disassemble two fixing bolts between cross beam and left side of car body.
Installation torque is 20±2 **Nm**



2.1.10 Disassemble one fixing bolt between cross beam and front side of car body by No. 10 socket spanner.
Installation torque is 20±2 **Nm**

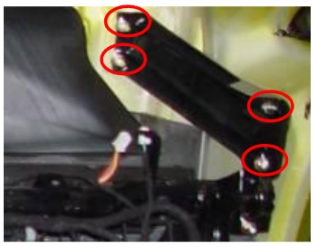


2.1.11 Disassemble two fixing bolts between cross beam and lower side of car body.
Installation torque is 20±2 **Nm**



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2.1.12 Disassemble two bolts and two nuts between cross beam and right side of car body by No. 13 sleeve. Installation torque is 20±2 **Nm**



2.1.13 Take off cross beam.

2.2 Assembly steps

The installing steps are reverse to those for removal.

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Chapter Nine AC System

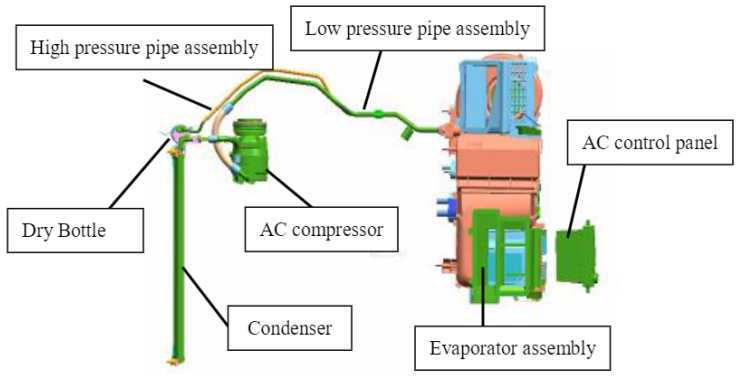
I. System Composition

Air adjustment and distributing system: HVAC air mixing and distributor part, inside/outside circulation air inlet, air outlet, outside circulation air filter.

Control system: control panel assembly, micro motor, blower, speed regulating mode, high/low voltage switch, AC temperature sensor.

Heating system: heating water tank, hot water pipe, and engine cooling water system.

Cooling system: compressor, condenser, reservoir dryer, expansion valve, evaporator and pipe.



II. Disassembly of evaporator assembly

1 Preparation

Tool: cross head screwdriver, carp pliers, socket spanner
Auxiliary material: refrigerant, antifreeze, sponge rubber strip

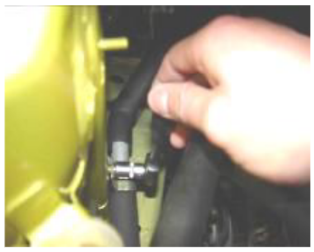
2 Disassembly steps

2.1 Recycling the refrigerant by refrigerant recycling machine
Note:
（1） Do not deal with the refrigerant at closed place or near flame.
（2） Do not splash the refrigerant into eyes and skin.
2.2 Disassemble instrument panel assembly and front cross beam.

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Unplug related electrical connector (Refer to disassembly/assembly of instrument panel)

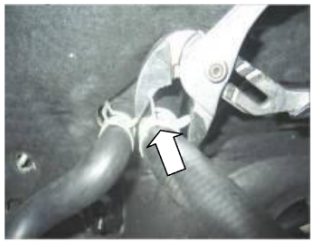
2.3 Loose fixing bolts on high/low pressure pipe by spanner.



2.4 Loose the fixing bolt between high/low pressure pipe and expansion valve, pull high/low pressure pipe outward.



2.5 Disassemble evaporator water tank inlet and outlet pipe clip and take off water pipe.
Note: coolant will flow out from the water pipe, pay attention to recycling the coolant.



2.6 Disassemble interior trim such as driver's side pedal, front seats, sub instrument panel, threshold pressing plate etc. and take off the front end of carpet.

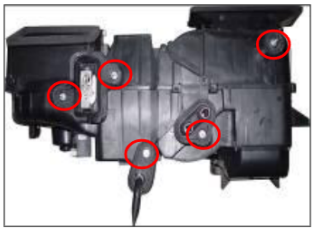


2.7 Disassemble AC cable grounding bolt.



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2.8 Loose 5 fixing bolts of evaporator assembly on metal sheet from front cab, positions see right figure.
Installation torque is 3.5±0.5 **Nm**



2.9 Take out evaporator and AC cable assembly from cab

3 Installation of evaporator assembly

The installing steps are reverse to those for removal.

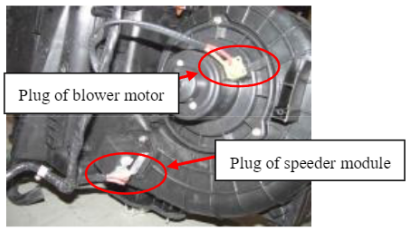
4 Disassembly/assembly of interior evaporator

Tool: cross head screwdriver, 4.0 hexagon wrench, socket spanner.

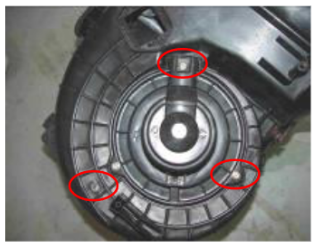
4.1 Blower replacement

4.1.1 Disassembly steps

4.1.1.1 Disassemble blower motor plug and motor speeder module plug.



4.1.1.2 Disassemble 3 blower motor screws and take out blower.



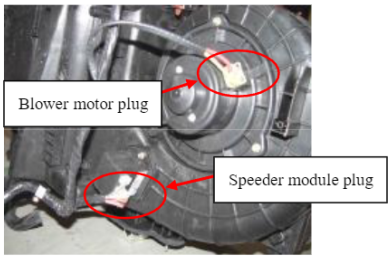
4.1.2 Assembly steps

The installing steps are reverse to those for removal.

5 Disassembly/assembly of blower speeder module

5.1 Disassembly steps

5.1.1 Unplug speeder module plug



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5.1.2 Disassemble 2 speeder module fixing bolts



5.1.3 Take off speeder module



5.2 Assembly steps

The installing steps are reverse to those for removal.

6 Disassembly/assembly of heating water tank

6.1 Disassembly steps

6.1.1 Disassemble evaporator assembly (see disassembly of evaporator)

6.1.2 Disassemble AC cable (see disassembly of AC cable)

6.1.3 Disassemble evaporator water temperature sensor



6.1.4 Disassemble 2 socket head cap bolt from expansion valve
Tool: 4.0 allen wrench



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6.1.5 Take off expansion valve, tear down gasket around expansion installation position.



6.1.6 Disassemble mode ventilator connection rod



6.1.7 Disassemble cooling/heating control ventilator pull rod



6.1.8 Disassemble 14 bolts on evaporator housing, decomposing evaporator housing.
Note: the sponge seal around housing is one time using



6.1.9 Disassemble 4 bolts on heating cover plate assembly





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6.1.10 Take off heating cover plate assembly

6.1.11 Tear down sponge seal around water inlet and outlet pipe, take off heating water tank cover plate.



6.1.12 Take off heating water tank



6.2 Assembly steps

The installing steps are reverse to those for removal.
Carry out checks for system evacuating, keep pressure, antifreeze leaking.
Check if the radiator is blocked. Clear the blocked radiator.

7 Disassembly/assembly of mode ventilator

motor and related mechanism

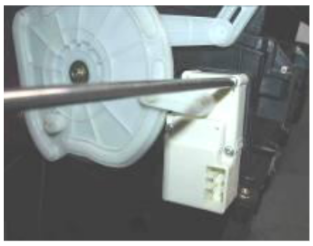


7.1 Disassembly/assembly steps

7.1.1 Take off motor plug
7.1.2 Disassemble mode ventilator connecting rod

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7.1.3 Loose 3 fixing screws of mode ventilator motor, and disassemble mode ventilator motor



7.1.4 Loose control disc fixing screw, take off control disc



7.1.5 Disassemble 3 screws and shims which control arm for defrost, blowing head and blowing feet behind of control disc.



7.2 Assembly steps

The installing steps are reverse to those for removal.

8 Disassembly/assembly of mixing ventilator motor and related mechanism

8.1 Disassembly steps

8.1.1 Take off motor plug
8.1.2 Disassemble mixing ventilator pull rod



8.1.3 Loose 3 screws of mixing ventilator control motor , and disassemble the motor



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8.1.4 Disassemble mixing ventilator control arm



8.2 Assembly steps

The installing steps are reverse to those for removal.

9 Disassembly/assembly of inside/outside circulation ventilator motor and related mechanism

9.1 Disassembly steps



9.1.1 Take off motor plug
9.1.2 Disassemble inside/outside circulation ventilator pull rod



9.1.3 Loose 3 screws of inside/outside circulation ventilator motor, and disassemble the motor

9.2 Assembly steps

The installing steps are reverse to those for removal.

10 Disassembly/assembly of evaporator

10.1 Disassembly steps

10.1.1 Disassemble evaporator assembly (Refer to disassembly of evaporator)

10.1.2 Disassemble AC cable (Refer to disassembly of AC cable)

10.1.3 Disassemble evaporator water temperature sensor (Refer to disassembly of evaporator water temperature sensor)

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10.1.4 Disassemble mode ventilator connection rod (Refer to disassembly of mode ventilator connection rod)

10.1.5 Disassemble cooling/heating control ventilator pull rod



10.1.6 Disassemble 14 bolts from evaporator housing, decomposing evaporator housing
Note: sponge seal around housing is one time using

10.1.7 Disassemble evaporator assembly

10.2 Assemble evaporator assembly

The installing steps are reverse to those for removal.
Carry out checks for system evacuating, keep pressure, antifreeze leaking.
Check if the radiator is blocked. Clear the blocked radiator



11 Disassemble other accessories from evaporator

11.1 Disassembly steps

11.1.1 Disassemble 4 bolts from lower ventilator by cross head screwdriver



11.1.2 Take off ventilator

11.1.3 Disassemble inside/outside circulation ventilator pull rod (Refer to disassembly of inside/outside circulation motor)



11.1.4 Loose 4 bolts of inside/outside circulation ventilator

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11.1.5 Take off inside/outside circulation ventilator



11.1.6 Disassemble 4 inside/outside circulation ventilator fixing bolts, and take off the ventilator



11.1.7 Disassemble interior temperature sensor holder



11.2 Assemble of other accessories for evaporator

The installing steps are reverse to those for removal.

III. Trouble shooting

Pressure deviated type	Possible reasons	Method for trouble shooting
1. Pressure on high pressure side is not changed or increased slightly (compare to engine stopped); pressure on low pressure side is within the schematic range or lower than that, means AC cooling ability is not enough 2. pressure on high pressure side is ok, pressure on low pressure	Refrigerant is not enough or expansion valve failure.	Take out refrigerant ● If the quantity of refrigerant is ok 1. Replace expansion valve 2. Refill refrigerant 3. Check the pressure again ● If the quantity of refrigerant is not enough 1. Check if there is leaking, if there is fix it 2. Refill refrigerant

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side is within schematic range, AC is cooling ability is not enough		3. Check the pressure again
Pressure on high pressure side is higher than stipulated value, and lower pressure side is decreased to schematic range or lower, the AC cooling ability is not enough	There must be somewhere is blocked or throttled in refrigerant pipe; Expansion valve is invalid	Touch the pipe by hand feeling T changes ●If there is T difference between every positions of one part 1. Blow the pipe by compressed air and Nitrogen, replace expansion valve also 2. Replace blocked part ● If there is no fault 1, Blow the pipe by compressed air and Nitrogen 2. Check the pressure again
At the beginning low pressure side is ok, but after a while, high pressure side pressure is higher than specified value, and low pressure side is within the schematic range or lower. AC cooling ability is not enough	Expansion valve is invalid There is vapor in refrigerant pipe	Check if it is dirty or rusty inside of the expansion valve, replace it if necessary ● Blow the pipe by compressed air and Nitrogen
High pressure side is higher than specified value or too high, low pressure side is too high, AC cooling ability is not enough, there is strange noise on compressor (especially at the beginning when it is started)	The quantity of refrigerant is over in the pipe Expansion valve is invalid or compressor is damaged	Take out refrigerant ●If the quantity of refrigerant is ok 1, Replace expansion valve 2, Refill refrigerant 3, Check the pressure again ● If the quantity of refrigerant is over 1. Refill refrigerant 2. Check pressure again Note: after pressure recheck, if the system can not work properly. Reassemble the replaced expansion valve and blow the pipe through by compressed air and Nitrogen, replace compressor and reservoir dryer.
High pressure side pressure is increased slightly, low pressure side is decreased slightly, AC cooling ability is not enough	Compressor is damaged	Blow the pipe through by compressed air and Nitrogen Replace compressor and reservoir dryer
High pressure side is ok, low pressure side is too low, AC cooling is correct, sometimes evaporator is freezing (the quantity of refrigerant is correct)	Expansion valve is invalid or compressor is damaged	Replace expansion valve Refill refrigerant: recheck pressure, if the system is not correct, reassemble the replaced expansion valve and blow the pipe through by compressed air and Nitrogen, replace compressor and

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		reservoir dryer.
1, high and low pressure both are correct, AC cooling ability is not enough 2. high and low pressure both are correct, compressor has strange noise (especially at the beginning of engine started), AC cooling is correct	Quantity of lubricant inside of AC pipe is over	Take out refrigerant ●Blow the pipe through by compressed air and Nitrogen Note: pay attention to the lubricant quantity when replace compressor and other parts
Reservoir can not be used	• Perforation • Seal position is damaged • Thread of fastener is damaged, and outside air is entering into the system at prolonged time.	Replace

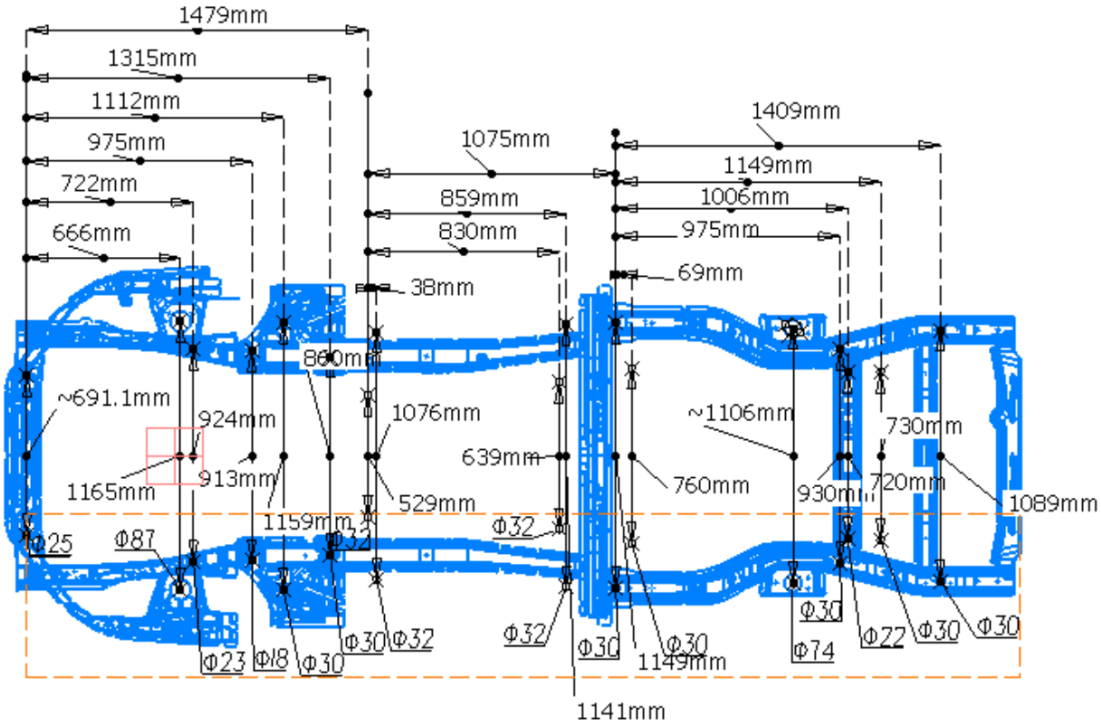
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Chapter Ten Body Size

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I. Beam Dimension

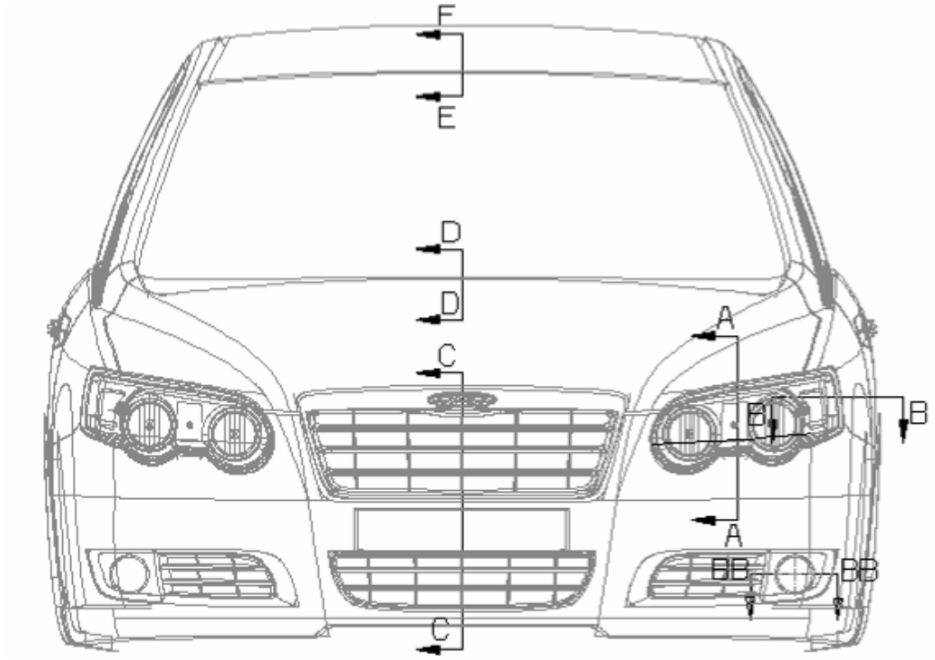
Unit:mm



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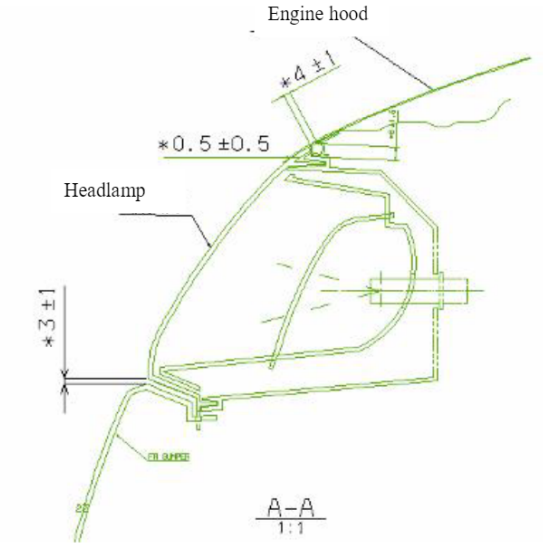
II. Body assembly dimension

1 Front view

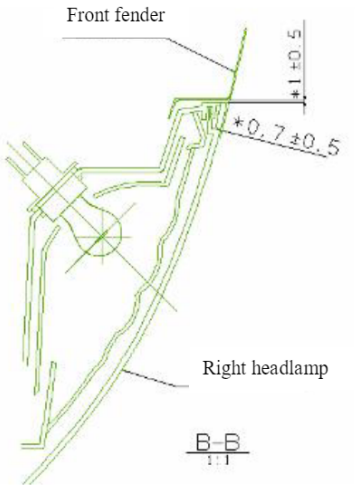


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1.1 Clearance between A-A headlamp and engine hood is 4±1 mm
Clearance between A-A headlamp and front bumper is 3±1mm

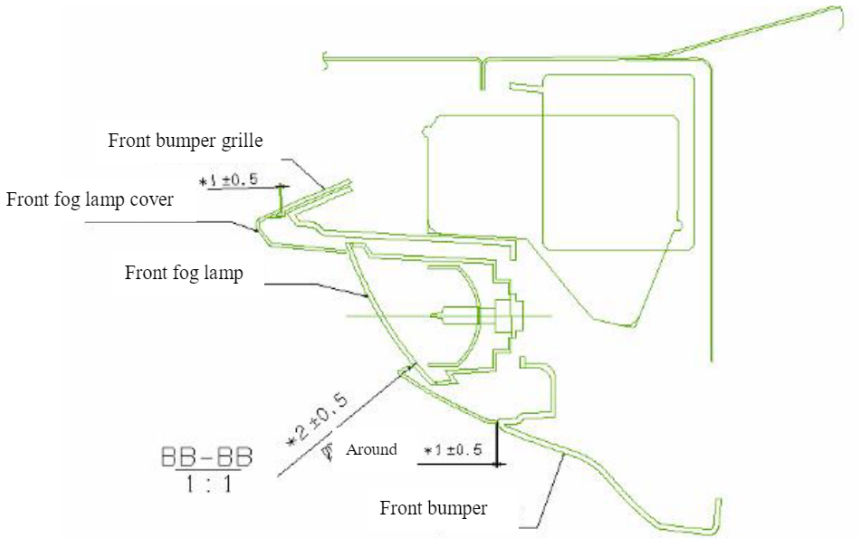


1.2 Clearance between B-B front fender and headlamp is 1 + 0.5mm

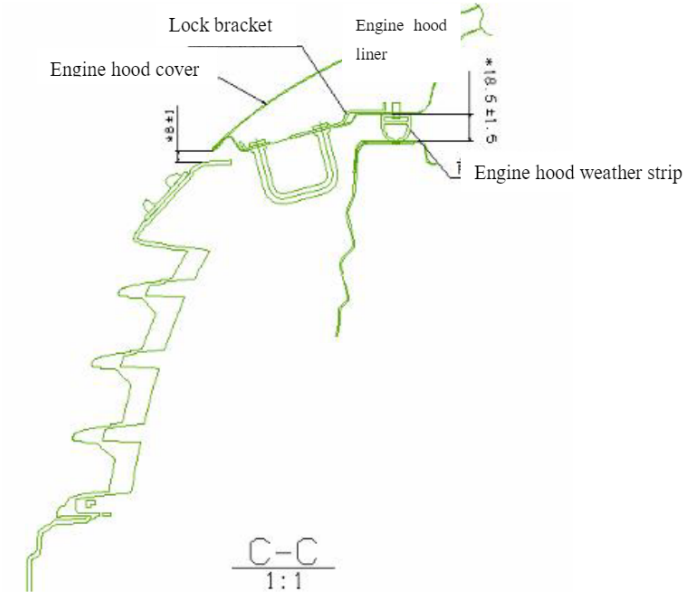


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1.3 Clearance between BB-BB front fog lamp and front bumper is 2±0.5mm

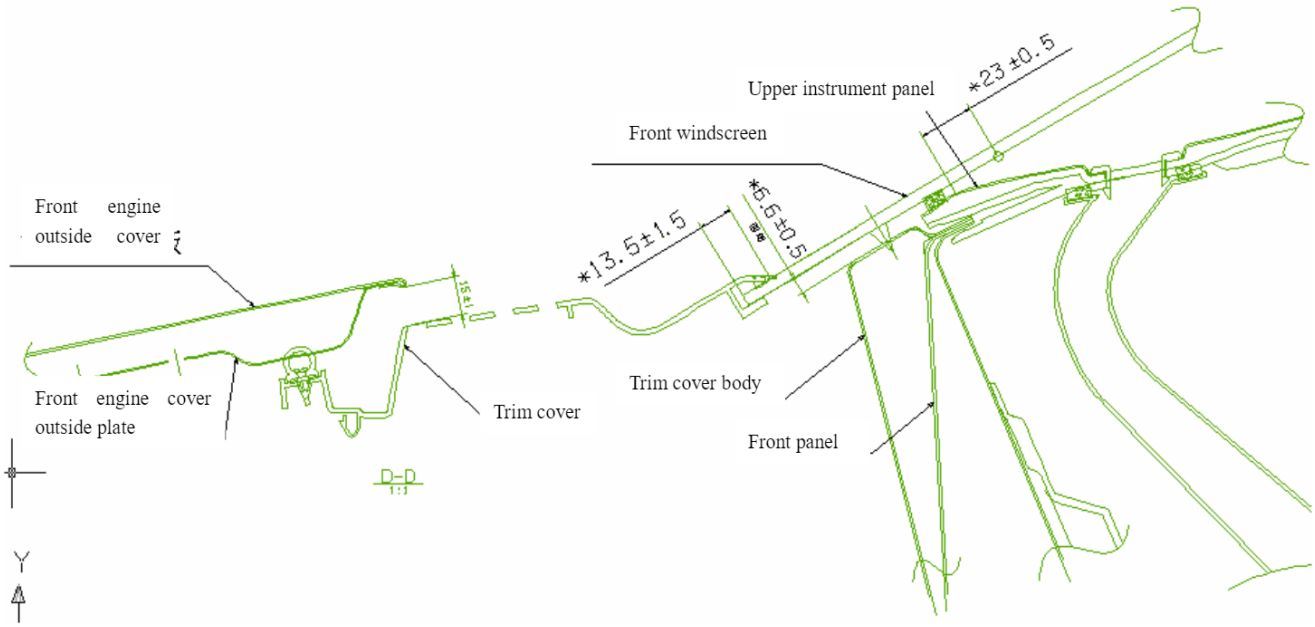


1.4 Clearance between CC-CC engine hood and front grille is 8±1mm



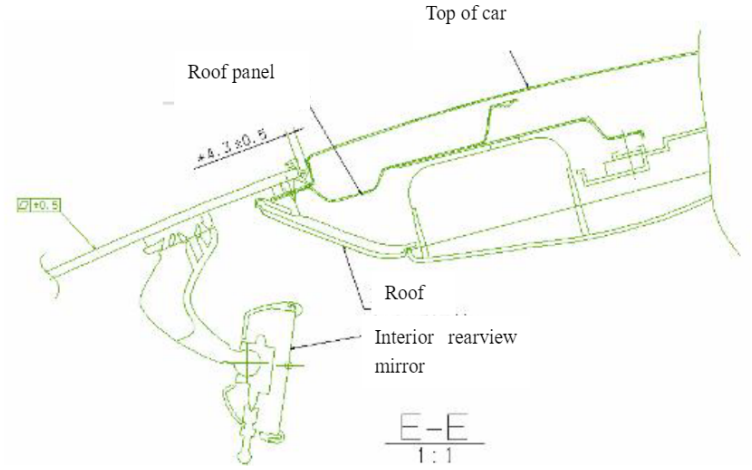
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1.5 Assembly dimension between D-D section engine hood and front windscreen lower trim cover is 15±1mm



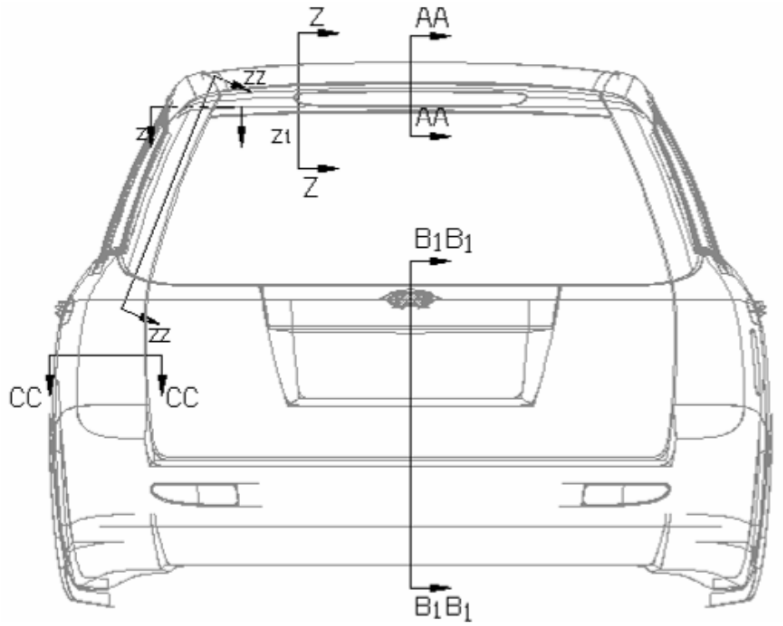
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1.6 Clearance between E-E front windscreen and roof is 4.3±0.5mm



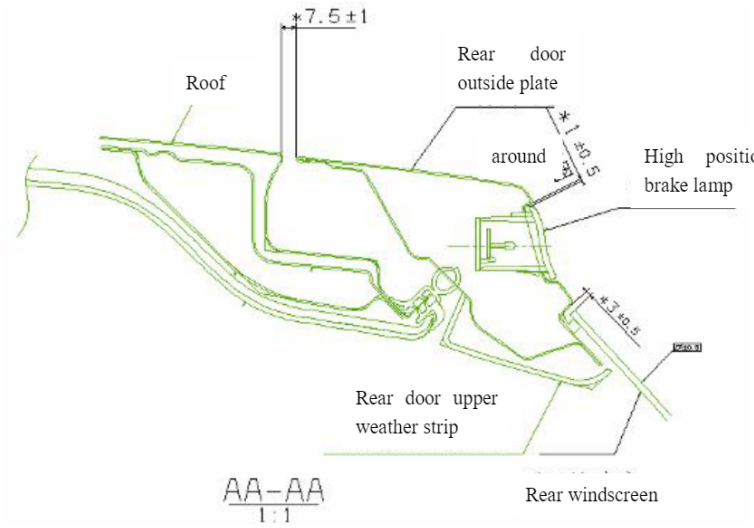
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2 Rear view



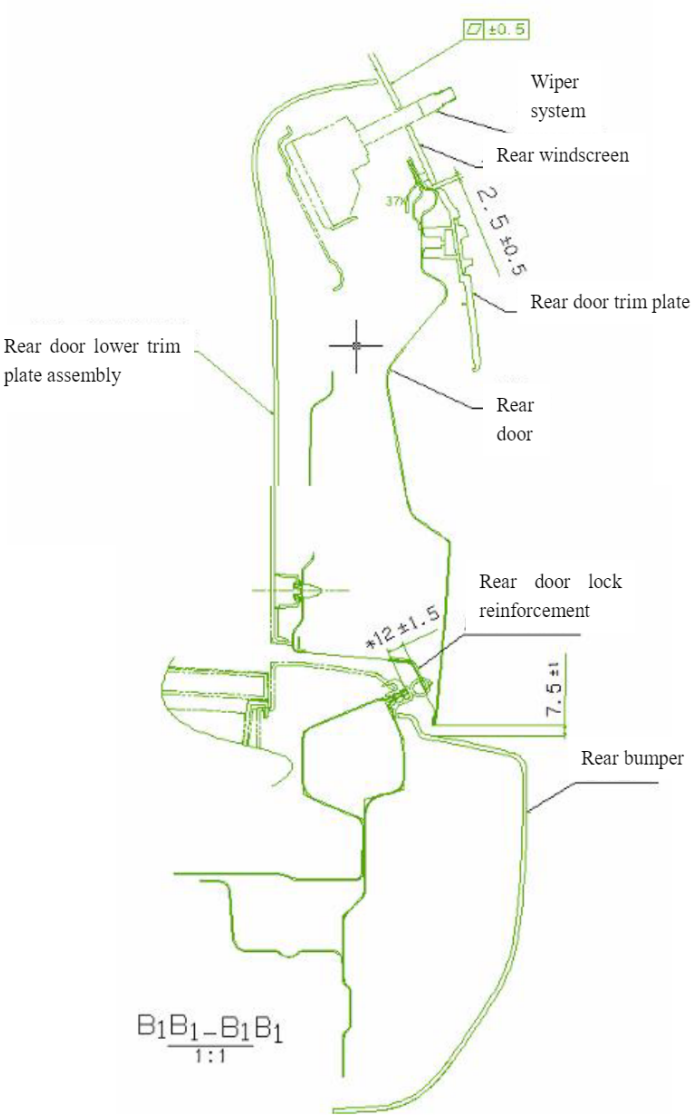
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2.1 Clearance between AA-AA roof and rear door is 7.5±1mm



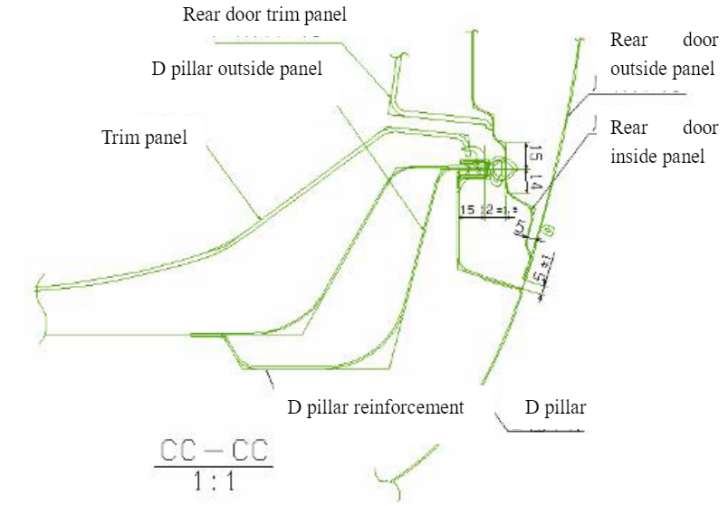
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2.2 Clearance between B_1B_1-B_1B_1 rear door and rear windscreen is 2.5±0.5mm
Clearance between B_1B_1-B_1B_1 rear door to rear bumper is 7.5±1mm

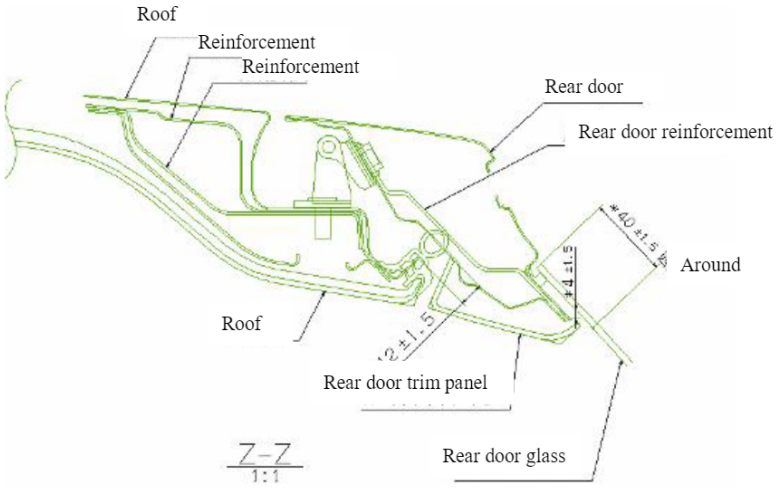


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2.3 Clearance between CC-CC rear door and D pillar is 5±1mm

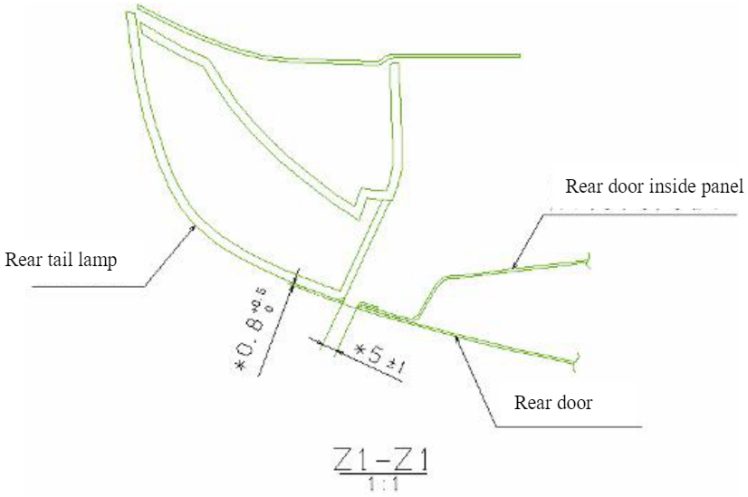


2.4 Matching dimension between Z-Z rear door to body:



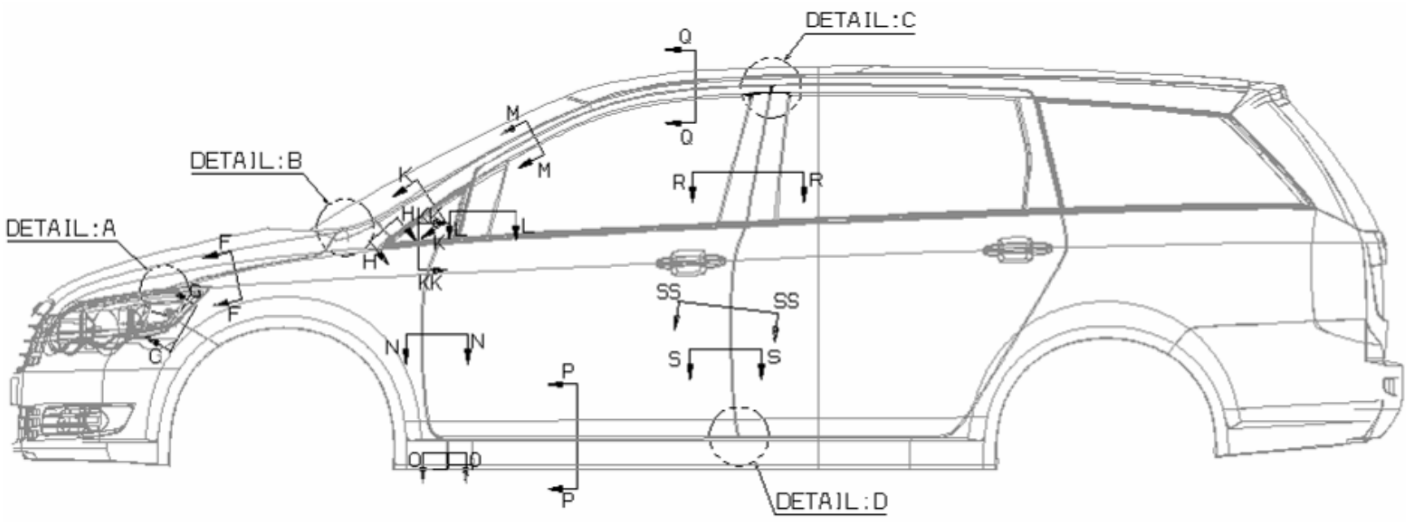
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2.5 Clearance between Z1-Z1 tail light and rear door is 5±1mm



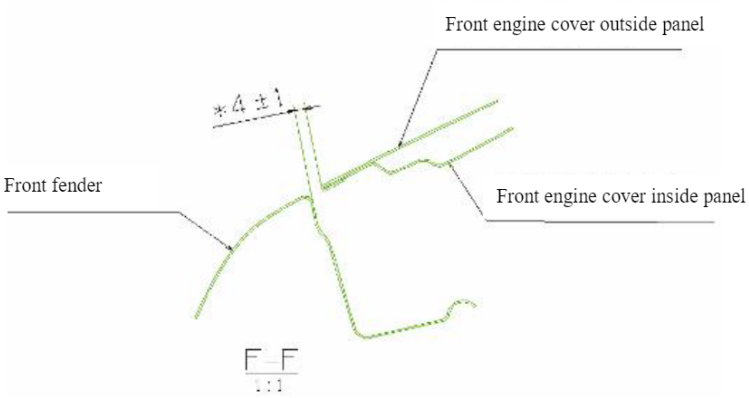
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3 Left side view－1

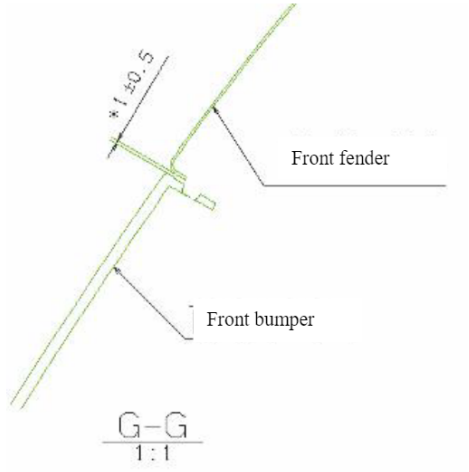


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3.1 Clearance between F-F engine hood and front fender is 4±1mm

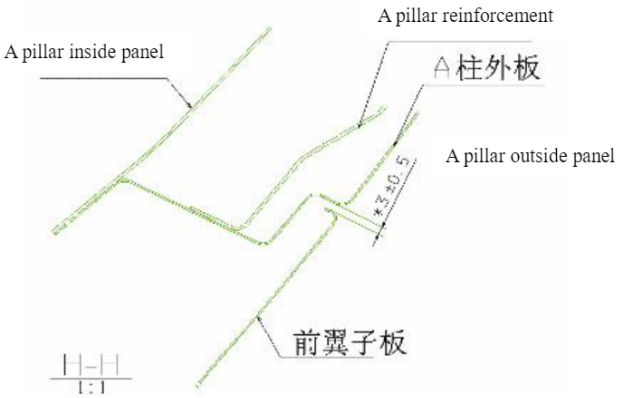


3.2 Clearance between G-G fender and front bumper is 1±0.5mm



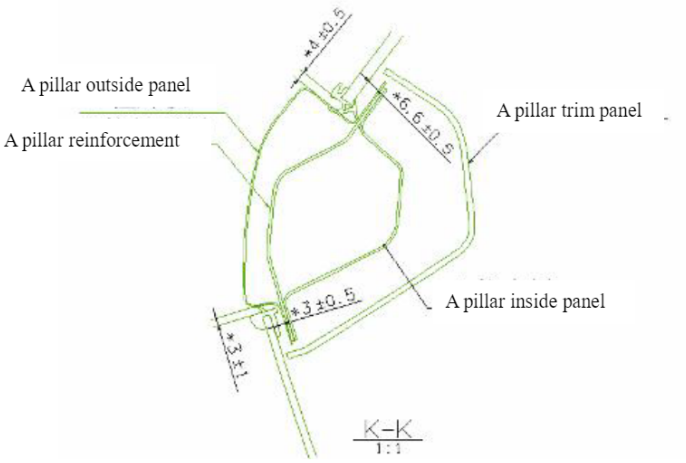
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3.3 Clearance between H-H A pillar and fender is 3±0.5mm



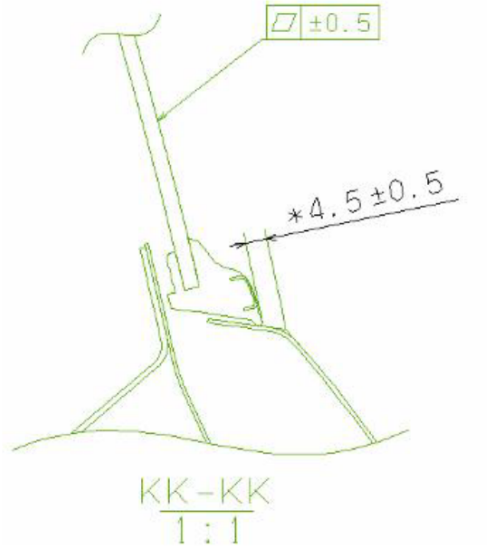
Front fender

3.4 Clearance between K-K A pillar and quarter window glass is 3±1mm
Clearance between K-K A pillar and front windscreen is 4±0.5mm

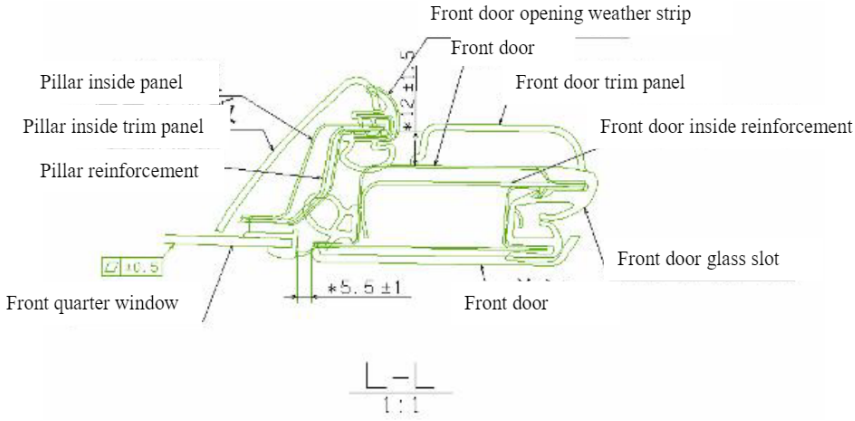


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3.4 Assembly dimension between KK-KK quarter window glass and instrument panel is 4.5±0.5mm

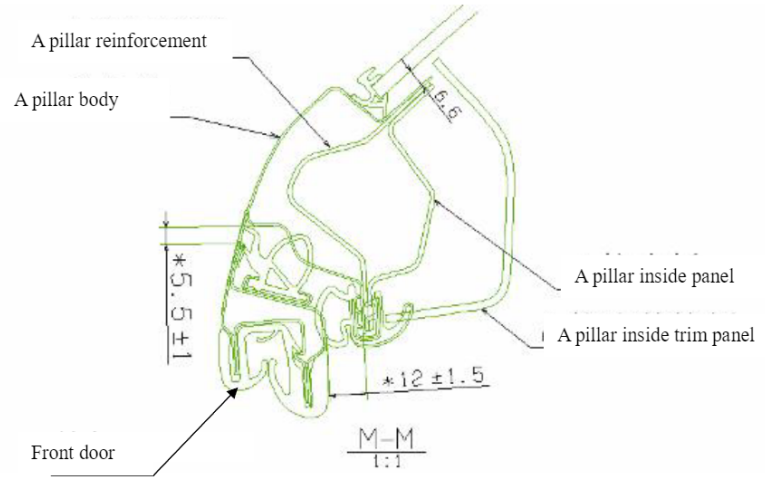


3.5 Clearance between L-L quarter window and front door is 5.5±1mm

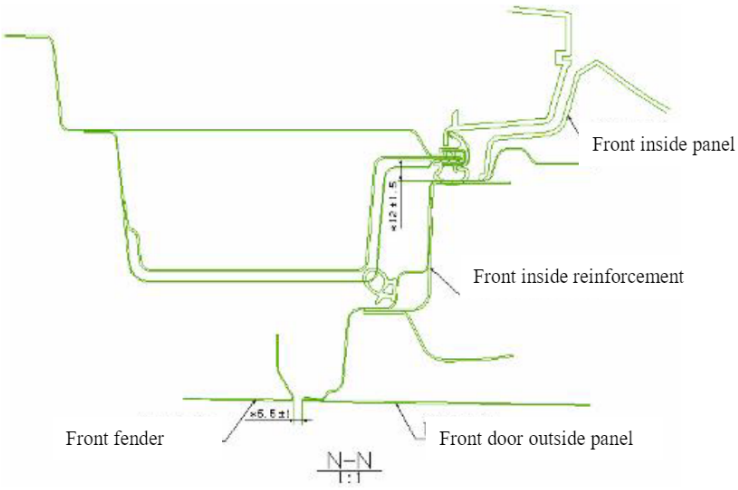


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3.6 Clearance between M-M A pillar and front door is 5.5±1mm

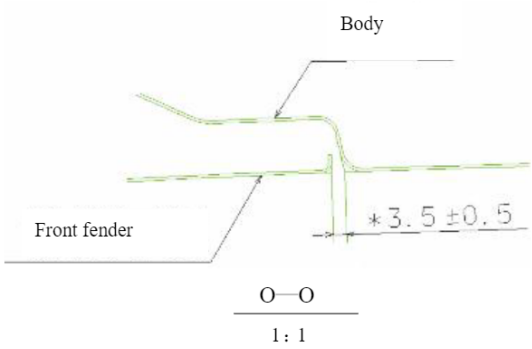


3.7 Clearance between N-N front door and front fender is 5.5±1mm

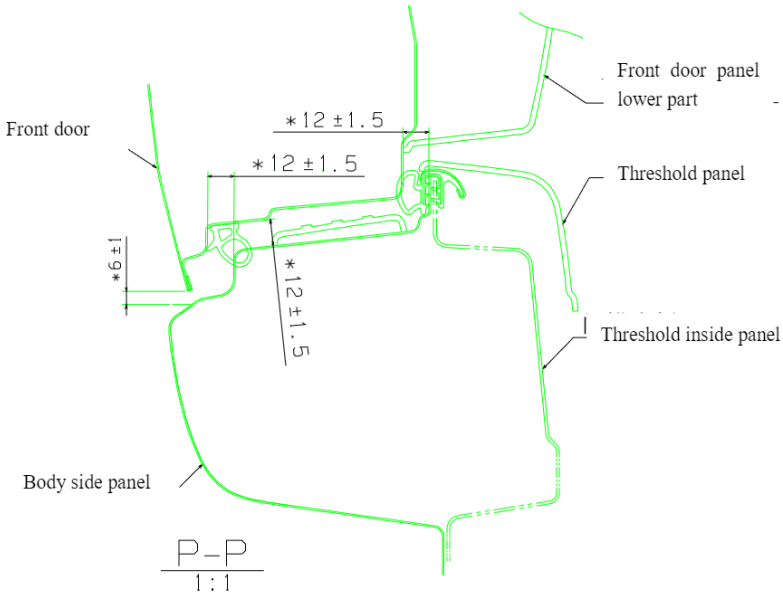


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3.8 Clearance between O-O body and front fender is 3.5±0.5mm

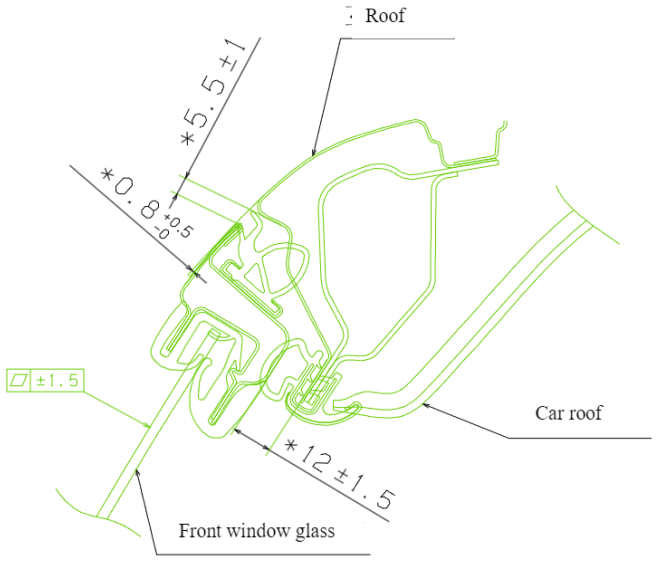


3.9 Clearance between P-P front door and side panel is 6±1mm



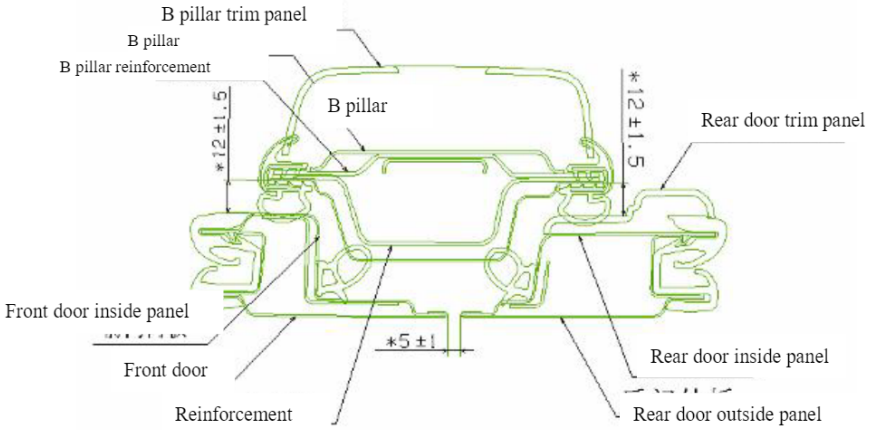
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3.10 Clearance between Q-Q front door and roof is 5.5±1mm



Q–Q
1:1

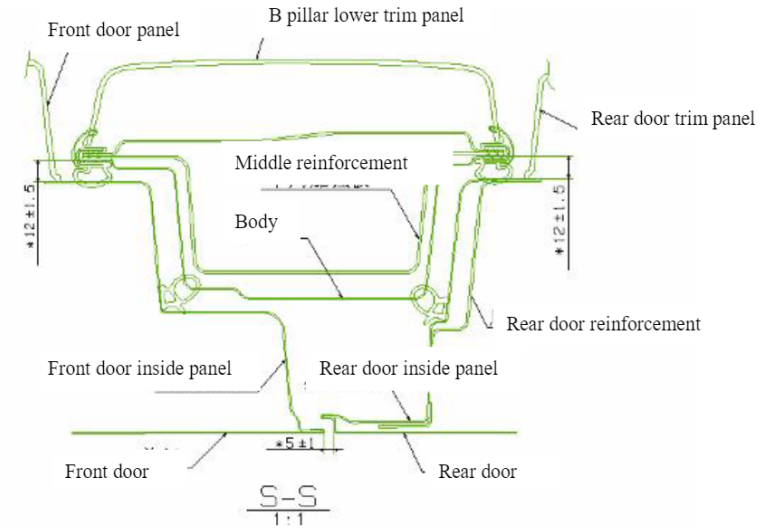
3.11 Clearance between R-R front door and rear door is 5±1mm



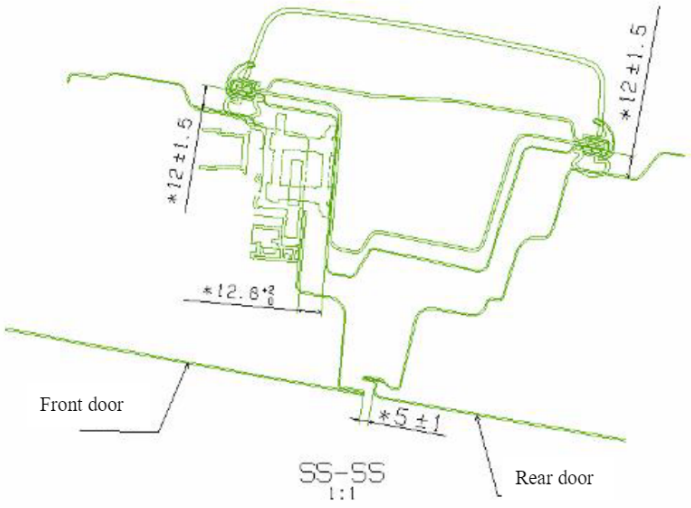
R–R
1:1

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3.12 Matching dimension between S-S front door, rear door and B pillar:

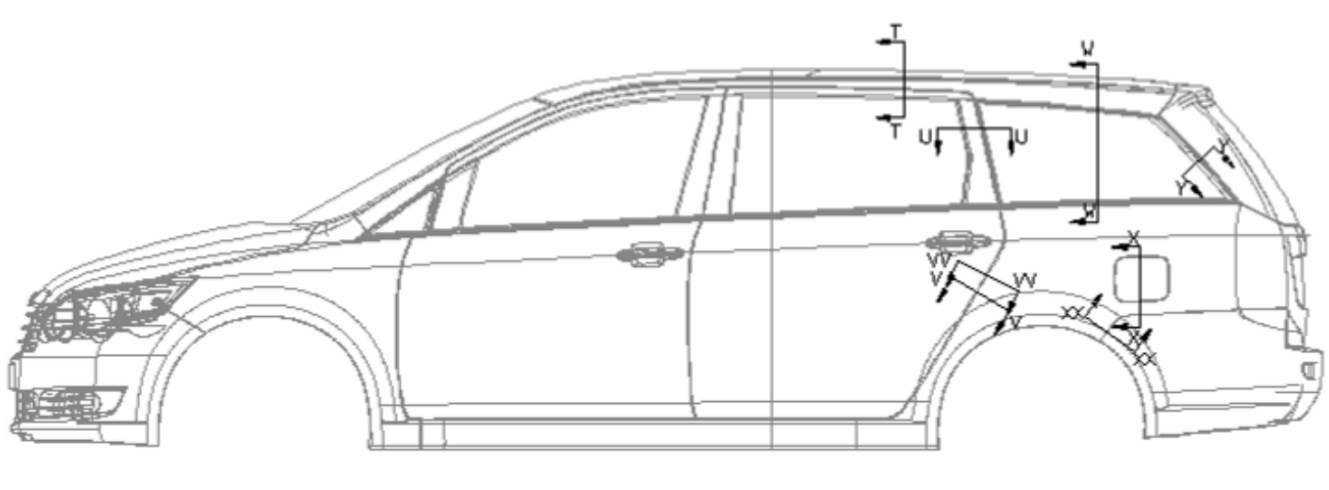


3.13 Matching dimension between SS-SS front door, rear door and B pillar:



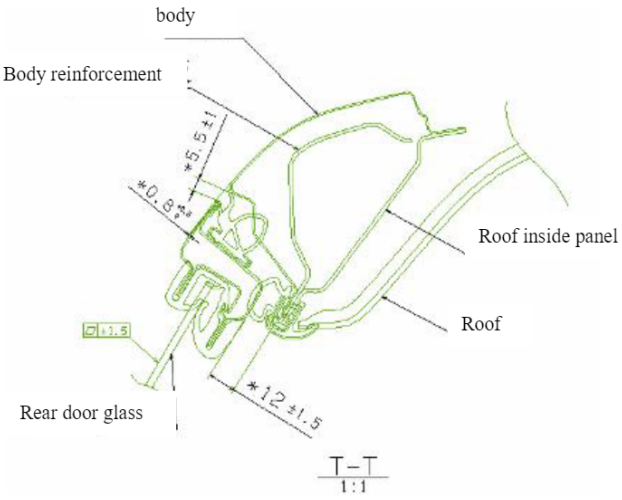
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4 Left side view-2

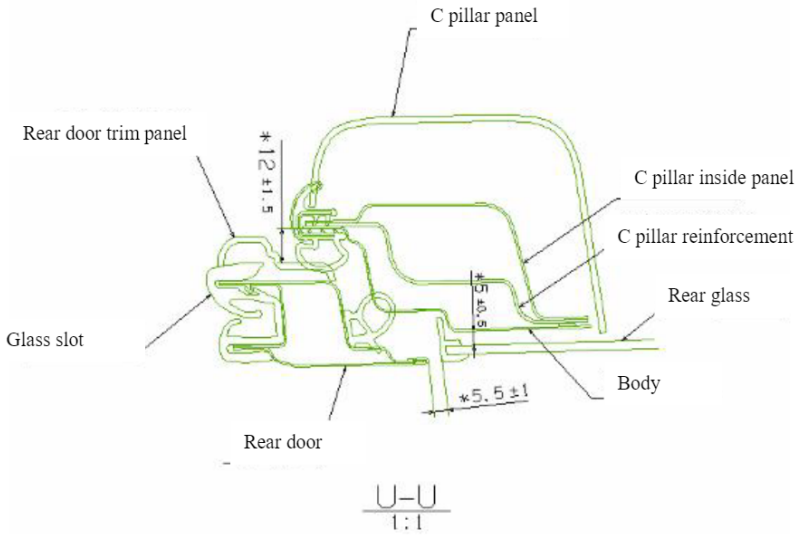


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4.1 Clearance between T-T rear door and roof is 5.5±1mm

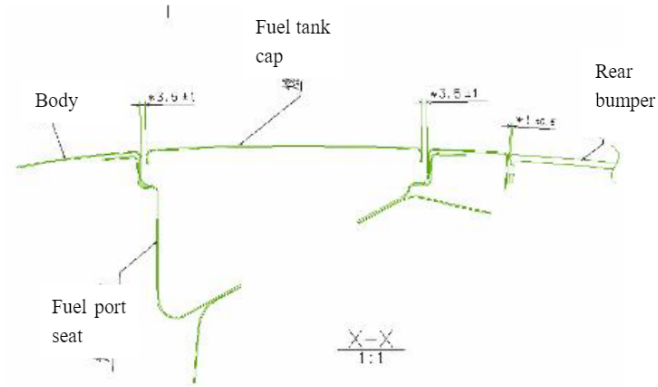


4.2 Clearance between U-U rear door and C pillar is 5.5±1mm

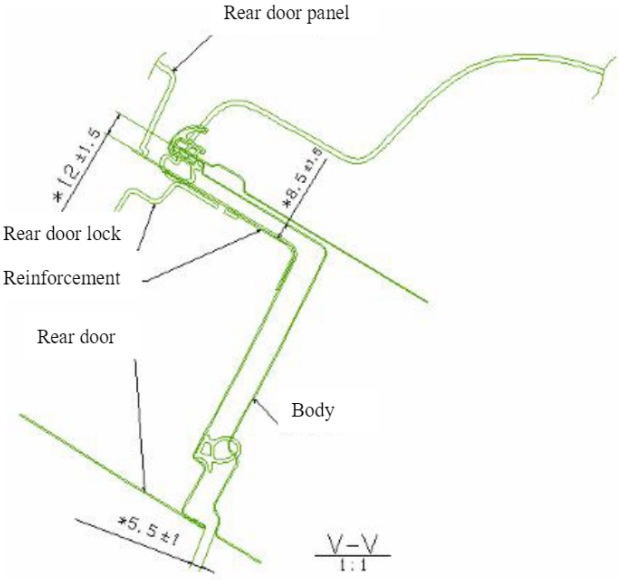


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4.3 Clearance between V-V rear door and body is 5.5±1mm

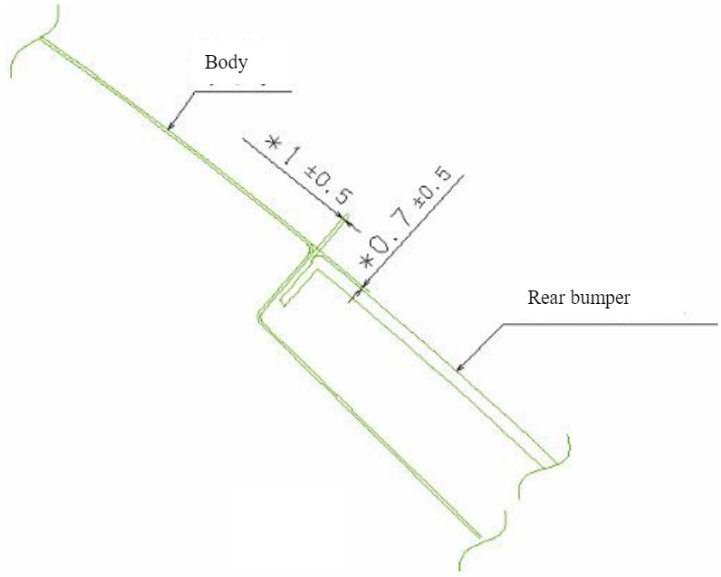


4.4 Clearance between X-X fuel tank cap and body is 3.5±1 mm

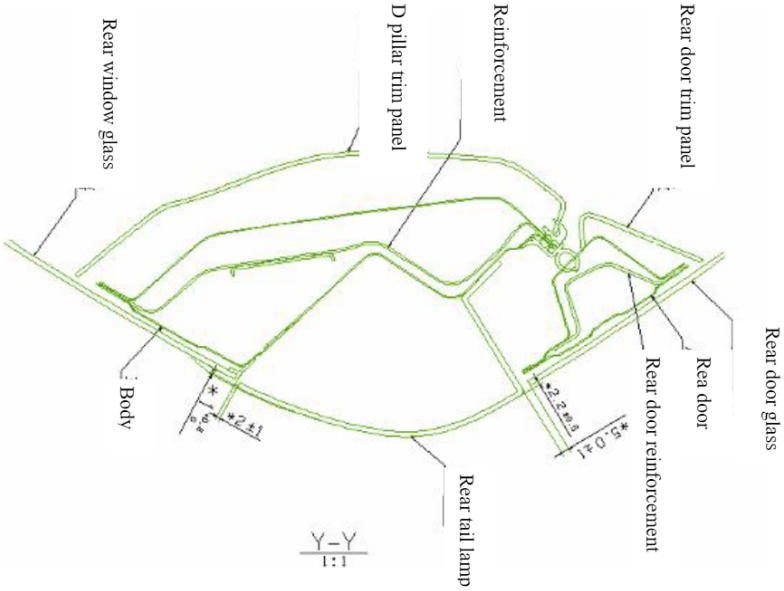


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4.5 Clearance between XX-XX rear bumper and body is 1±0.5mm

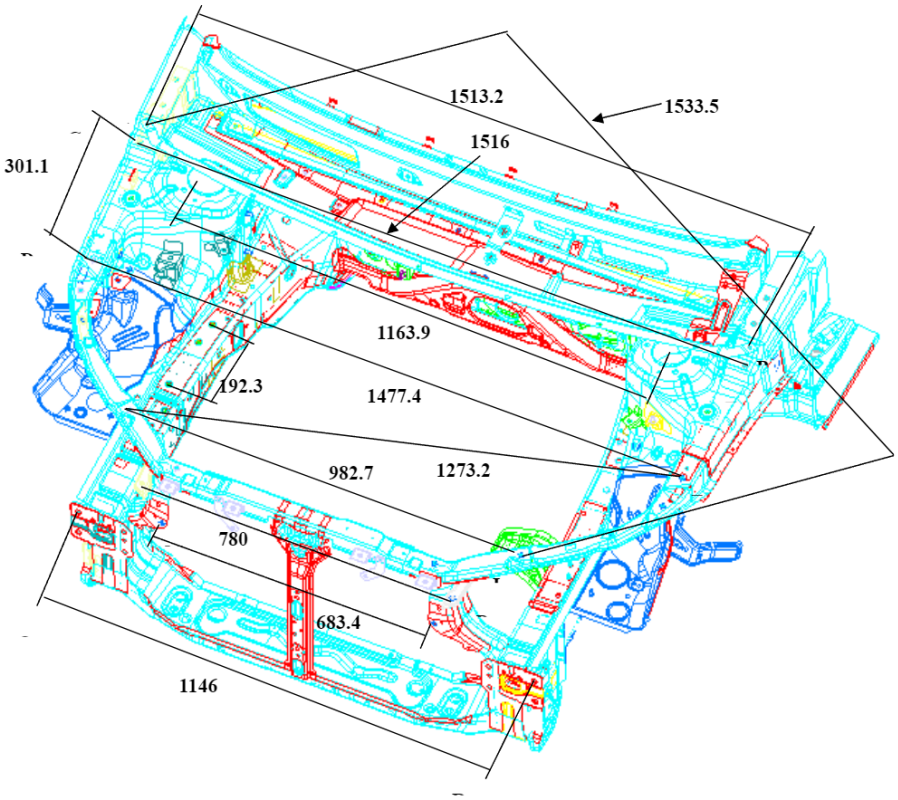


4.6 Clearance between Y-Y rear tail lamp and body is 2±1mm



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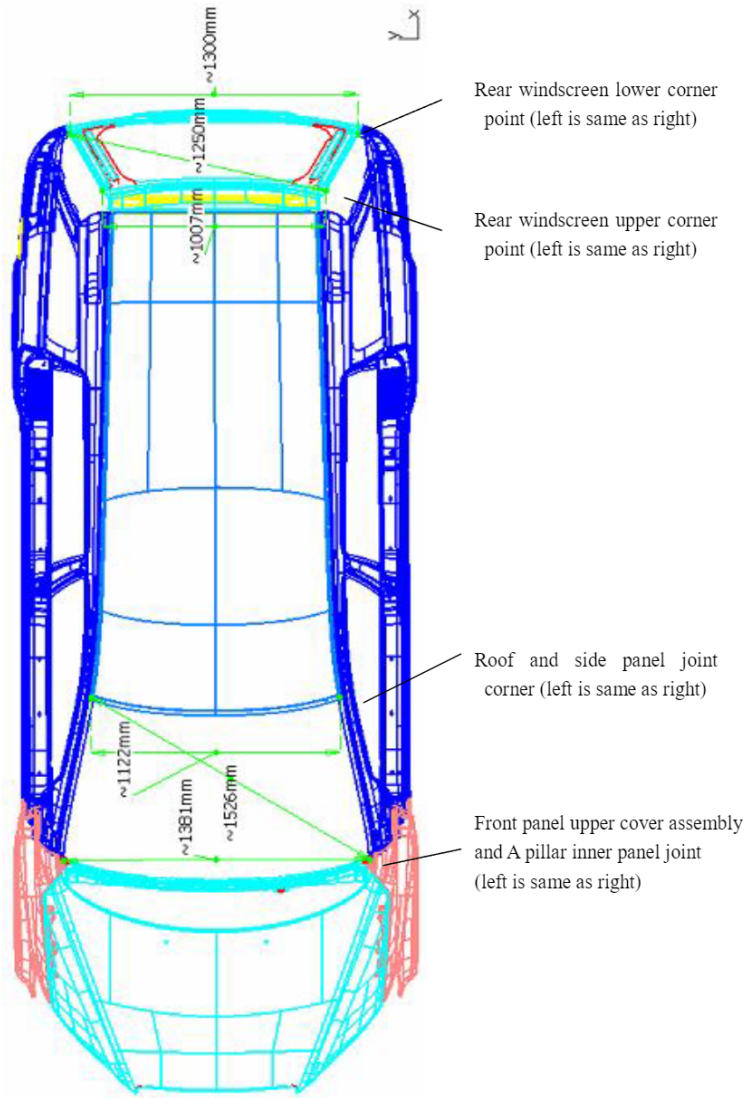
III. Engine Compartment Dimension



Code	Name	Ø（mm）
A/B	Gullet assembly hole	7
C/D/E/F	Fender assembly hole	7
G/ H	Shock absorber assembly hole	87
I/J	Engine right suspension bracket assembly hole	17
K/L	Front headlamp assembly hole	7
M/N	Headlamp assembly hole	7
O/P	Bumper assembly hole	7
Q/R	Front bumper cross beam assembly hole	13

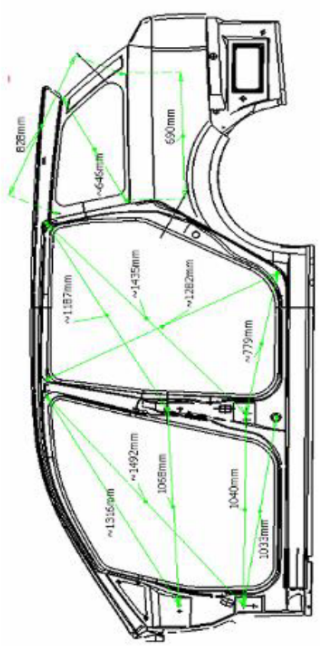
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IV. Windscreen Dimension



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V. Dimension of All the Opening



Body size, left - right

Remarks: capital letter means left side, small letter means right side（look from rear side of car）

Code	Name	remark	Code	Name	remark
A a	Front door up hinge assembly holder	11	H h	Side panel rear door guide upper corner point	
B b	Front door lower hinge assembly holder	11	I i	Rear door support point	
C c	Side panel front door guide upper corner point		J j	Rear side wind window left upper assembly point (look from left side of a car)	
D d	Rear door lower hinge assembly holder	11	K k	Rear side wind window left lower assembly point (look from left side of a car)	
E e	Rear door up hinge assembly holder	11	L l	Rear side wind window right upper corner point (look from left side of a car)	
F f	Front door support point		M m	Rear side wind window right upper corner point (look from left side of a car)	
G g	Side panel rear door guide upper corner point				

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