

Overview

I Warning and Precautions

1 Warning and Precautions

Definitions of "warning", "important note" and "attention"

The diagnostic and maintenance procedures in this manual include general and specific "warnings", "important notices" and "cautions", and JAC is committed to providing maintenance information to assist the after-sales service technician in the diagnosis and maintenance system, so that the vehicle can run normally, but if the technician does not operate as recommended, some programs may pose a risk to the technician.

"WARNING", "IMPORTANT NOTE" and "CAUTION" are prepared to prevent the occurrence of such hazards, but not all hazards are predictable. This information is displayed in prominent positions in the maintenance manual. This information is prepared to prevent the following:

- Causing serious injury to people
- Vehicle damage
- Unnecessary vehicle maintenance
- Unnecessary parts replacement
- Improper repair or replacement of vehicle parts

The definition of "warning"

When you encounter a "warning", it asks you to take the necessary action or to prohibit the action taken. If you ignore "warning", you may have the following consequences:

- Causing serious injury to people

If the vehicle is improperly repaired, it will cause serious personal injury to the driver and / or passenger of the vehicle.

The definition of "Important Note"

"Important note" requires special attention to the measures necessary or prohibited. If you ignore the "IMPORTANT NOTE", it will lead to the following consequences:

- Vehicle damage
- Unnecessary vehicle maintenance
- Unnecessary parts replacement
- Abnormal operation or performance of the system or component being repaired
- Damage related systems or components
- Damage fasteners, basic tools or special tools
- Engine coolant, lubricating oil or other essential liquid leakage

The definition of "Attention"

The "CAUTION" statement emphasizes the necessity of a diagnostic or maintenance procedure, and the purpose of the "attention" statement is as follows:

- Clear procedure
- Provide supplementary information for completing a program
- Clarify the reason for an operation according to the recommended procedure

II Vehicle Inspection

1 Items should be checked when operating vehicle

Honk operation.

Please press the honk occasionally to ensure the honk is working well. Check all buttons.

Operation of the brake system

While braking, please check whether abnormal noise/sound, increase of brake pedal's stroke or repetitive lane departure exists. Furthermore, if the brake warning light keeps lighting or flickering, some failures may exist inside brake system.

2 Items should be checked when fuel-charging

Oil/fluid loss of all systems except for windshield washer means the system has failure. Please check and repair system immediately.

Check the liquid level of cleaning agent of front windshield glass

Check the liquid level of cleaning agent in liquid reservoir, and add cleaning agent if necessary.

3 Items should be checked at least once a month

Operation of vehicle light

Check the operation of license lamp, headlamp (low/high beam), parking lamp, fog lamp, tail lamp, brake lamp, steering lamp, reversing lamp and hazard warning lamp.

Oil leak check

After the vehicle has been parked for a period of time, please check regularly whether water, engine oil, fuel or other fluid exist under the vehicle. Water-dripping is a normal phenomenon when the air conditioning system is used. If fuel leak or smoking is detected, please check reasons and eliminate fault timely.

4 Items should be checked at least twice a year

Door and window seal lubrication

Apply a layer of silicone grease to the seal with a clean cloth.

5 Items should be checked at least once a year

Status and operation of safety belt

Check safety belt system, including the strap, buckle, lock plate, retractor, guide ring and fixing device.

Storing of spare tire and lifting jack

Beware of the crunching sound appeared in vehicle's rear part. Spare tire, lifting device and tools must be fixed all the times. Please use engine oil to lubricate the ratchet or spiral device of lifting jack after use.

Key lock maintenance

Lubricate key cylinder

Maintenance of vehicle body's lubrication

Lubricate all hinges on vehicle doors, engine cover, oil filler cap, tail door, plunger latch, glove box and control console. All components of folded seats need to be lubricated.

Rinsing of vehicle's bottom part

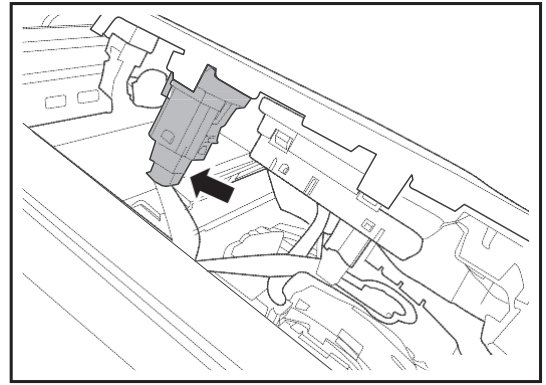
First, loosen the deposit sediment gathered around vehicle's sealed area. Then use clean water to rinse vehicle's bottom. After winter, the vehicle's bottom should be cleaned once a year at least. Rinsing vehicle's bottom can remove the corrosive material that

2 Troubleshooting Procedure

Engine can not be started

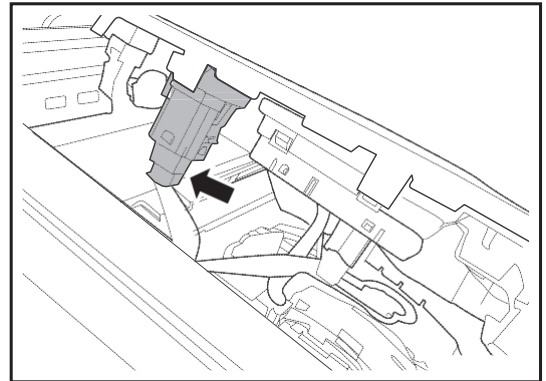
Steps	Inspection content	Solution	Decision specification	Next step	
				Yes	No
1	Confirm the fault phenomenon	Set the ignition switch on ST position, start the engine.	Confirm if the engine rotates	Next step	Turn to step 4
2	Confirm the rotation situation of the engine	Set the ignition switch on ST position, start the engine; read the engine rotation speed according to the instrument speed meter or diagnosis data.	whether the engine rotation speed reaches the starting rotation speed.	Check the engine ignition system and fuel supply system.	Next step
3	Check the battery voltage	Set the ignition switch on ST position, start the engine, measure the battery voltage.	Standard voltage value: larger than 10.5V	Replace the starter	Check the charging system
4	Check the starter electromagnetic switch motion	Set the ignition switch on ST position, start the engine to check the starter electromagnetic switch motion	whether the starter electromagnetic switch works	Next step	Turn to step 8
5	Check the engine mechanical running	Check the engine and belt drive system mechanical clamping stagnation(engine clamping stagnation, generator clamping stagnation) situation	If it has clamping stagnation	Repair the clamping stagnation part	Next step
6	Check resistance between the starter and the power supply	Measure the circuit resistance between the battery and the starter motor.	Standard value: $<1\Omega$	Next step	Check and repair the cable
7	Check the starter electromagnetic switch wire harness.	Check if the starter electromagnetic switch wire harness has looseness, corrosion and damage.	If the wiring connection is normal or not?	Next step	Check and repair the cable
8	Check the starter control power supply voltage.	Set the ignition switch on ST position, measure the voltage of starter wiring connector terminal.	Standard voltage value: 11V ~ 14V	Replace the starter	Next step
9	Check the starter control power supply wire harness resistance	Measure the voltage value between the starter relay ER03 terminal 87 and starter wiring connector B08 terminal 1.	Standard value: $<1\Omega$	Next step	Check and repair the cable
10	Check the starter relay motion	Set the ignition switch on ST position, check the starter relay motion.	If the starter relay actuates	Next step	Turn to step 14

- 2) Disconnect start button wire harness connector.
- 3) Take off the engine start button.



2 Installation

1. Install engine start button.
 - 1) Install engine start button.
 - 2) Connect start button wire harness connector.
 - 3) Install the upper trim panel assembly of secondary dashboard
- 2). Connect the battery negative cable.
3. Close the engine compartment cover

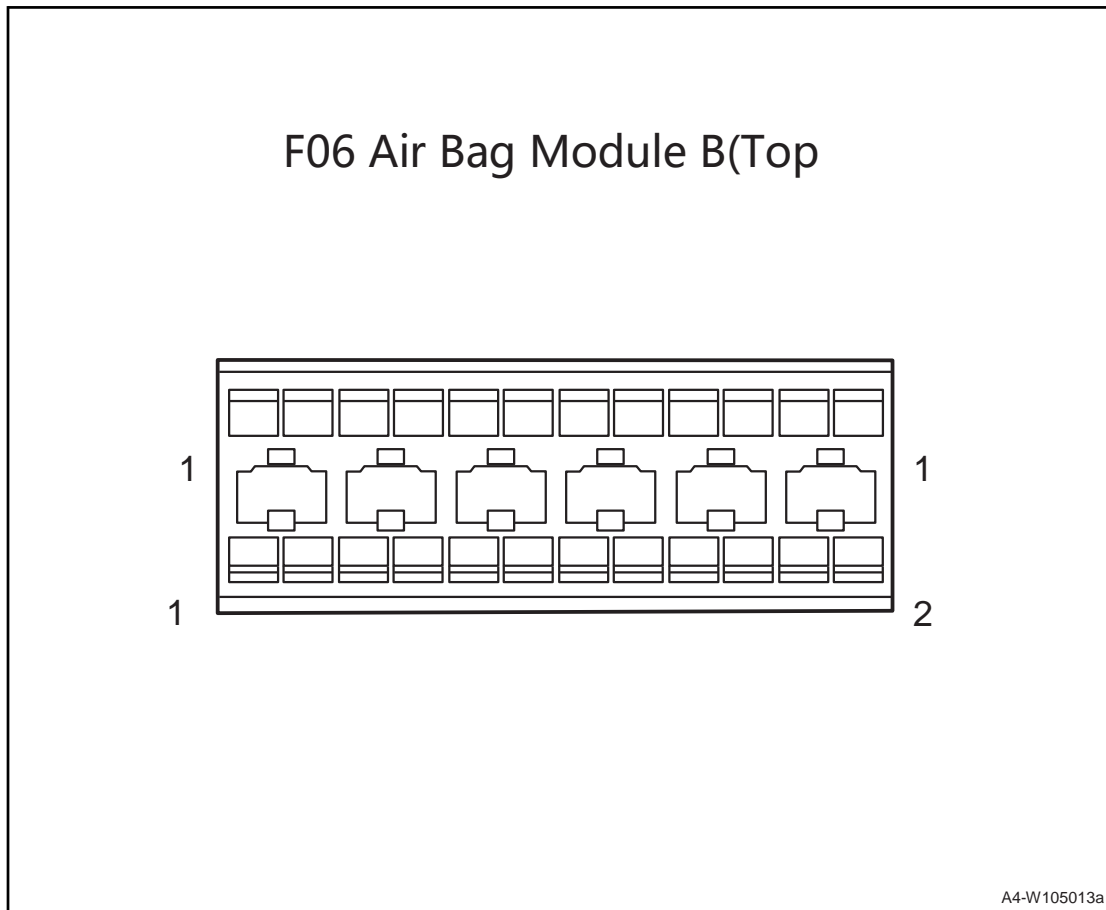


VIII Electronic Steering Column Lock

1 Disassembly

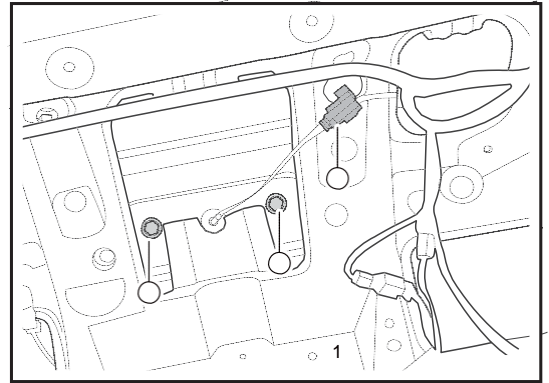
1. Open the engine cover
2. Disconnect the battery negative cable.
3. Remove the instrument cluster cover assembly, refer to the instrument cluster cover assembly
4. Disassemble the steering column housing lower and upper shell, refer to steering column housing

Airbag module B (top line) pin diagram



Connector No.	Connector pin	Wire Color	Wire Diameter	Pin Definition
F06	5	G/R	0.5	Right rear safety belt pretensioner -
F06	6	G/Y	0.5	Right rear safety belt pretensioner +
F06	7	Y/W	0.5	Left rear safety belt pretensioner +
F06	8	Y/B	0.5	Left rear seat belt pretensioner -
F06	9	P	0.5	Co-pilot side collision sensor +
F06	10	P/B	0.5	Co-pilot side collision sensor -
F06	11	Bl/B	0.5	Driver side collision sensor -
F06	12	Bl	0.5	Driver side collision sensor +
F06	17	Br/B	0.5	Right side airbag -
F06	18	Br	0.5	Right side airbag +
F06	19	Gr	0.5	Left side airbag +

- 3) Put the tail door trim strip assembly at installation position.
 - 2) Mount and tighten the 2 fixing bolts of tail door trim strip assembly.
 - 5) Connect panoramic parking rear camera harness connector 1.
2. Install tail door left and right combination lamps
 3. Install tail door trim panel assembly
 - 4). Connect the battery negative cable.
 5. Close the engine compartment cover

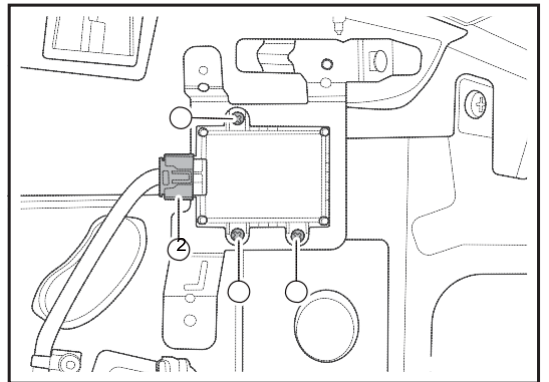


IX Left Blind Spot Monitoring Radar

△ Attention: left and right left blind spot monitoring radar assembly and disassembly methods are similar

1 Disassembly

1. Open the engine cover
2. Disconnect the battery negative cable.
3. Remove the rear bumper assembly. Refer to the rear bumper assembly
4. Dismantle the left blind spot monitoring radar.
 - 1) Disconnect the left blind spot monitoring radar harness connector 1.
 - 2) Dismantle the 3 fixing screws 2 of left blind spot monitoring radar.
 - 3) Take off the left blind spot monitoring radar.



2 Installation

1. Install the left blind spot monitoring radar.
 - 1) Put the left blind spot monitoring radar at installation position.

II Troubleshooting

1 Troubleshooting table

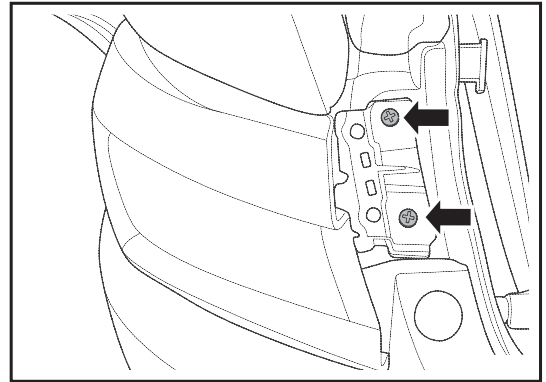
Troubleshooting table

No.	Fault symptoms	Fault analysis	Solutions	Remark
1	Fog lamps, position lampshade and	Bulb filament blown	Replace the bulb	
		The fuse is broken	Replace the fuse.	
		Power fails, harness connector loose	Repair circuit fault	
		Light switch does not work	Change the light switch	
		Light switch circuit failure	Repair light switch circuit fault	
		BCM fault	Replace the BCM	
2	Low/ high beam lamps do not work	Bulb filament blown	Replace the bulb	Refer to lamps do not work(low/high beam)
		The fuse is broken	Replace the fuse.	
		Power fails, harness connector loose	Repair circuit fault	
		Relay does not work	Replace the relay	
		Light switch does not work	Change the light switch	
		Light switch circuit failure	Repair light switch circuit fault	
		BCM fault	Replace the BCM	
3	Brake lamp does not work	Brake lamp fuse blown	Replace the brake light fuse	Refer to brake lamp does not work
		Brake switch installed incorrectly	Adjust and install the brake switch	
		Brake switch damaged	Replace the brake switch	
		Brake light bulb filament blown	Replace the bulb	
		BCM damaged	Replace the BCM	
4	Reversing light does not work	Reversing light fuse blown	Replace the fuse.	Refer to reversing lamp does not work
		Reversing light switch is not installed correctly	Adjust the installation of reversing light switch	
		Reversing light switch is damaged	Replace the reversing light switch	
		Reversing light filament blown	Replace the bulb	
		BCM damaged	Replace the BCM	
5	Daytime running lights do not work	Daytime running lights fuse blown	Replace fuse	Refer to daytime running lights do not work
		BCM damaged	Replace the BCM	
		Daytime running lights damages	Replace the daytime running lights	

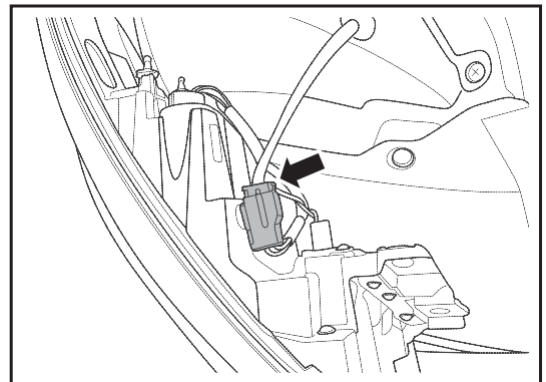
2 Lighting System Fuse, Relay and Connectors List

No.	Lighting	Fuse	Relay	Wire harness connector and PIN
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2) Disassemble the 2 fixing bolts of the left side panel rear combination lamp.



3) Take out the left side panel rear combination lamp and disconnect its wire harness connector.



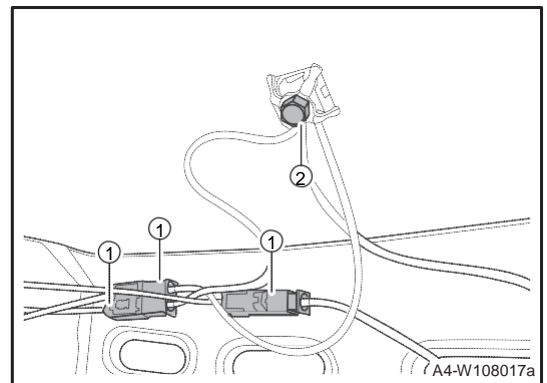
(2) Inspection

- 1). Check whether there are scratches on the surface of the lamp shade, whether the internal structure is loose and swaying, whether the wiring harness is fixed normally, whether there are defects on the surface of the decorative frame and the aluminized area of the reflector, and whether the external identification is correct.

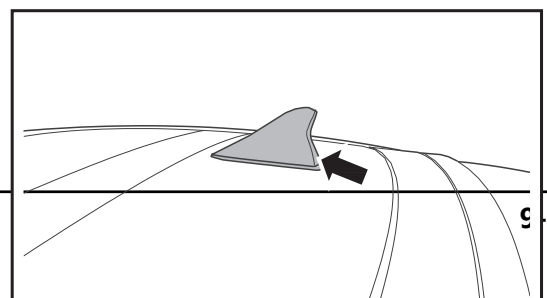
IV Shark Fin Antenna Assy.

1 Disassembly

1. Open the engine cover
2. Disconnect the battery negative cable.
3. Dismantle the right and the left A pillar upper panel assembly, refer to the “A pillar upper panel assembly”.
4. Dismantle the left and the right front doorsill guard plate assemblies, refer to the ”front doorsill guard plate assembly”.
5. Dismantle the left and the right rear doorsill guard plate assemblies, refer to the ”rear doorsill guard plate assembly”.
6. Remove B pillar lower guard assemblies. See B pillar lower guard assembly
7. Remove B pillar upper guard assembly. See B pillar upper guard assembly
8. Remove the rear seat assembly. See the rear seat assembly
9. Remove the C pillar lower guard plates and luggage compartment guard plate. Refer to the “C pillar lower guard plate” and the “luggage compartment guard plate”.
10. Remove C pillar upper guard assemblies. See C pillar upper guard assembly
11. Dismantle the sun visor assembly(left/right) . refer to the “sun visor assembly”.
12. Dismantle the front roof lamp refer to the front roof lamp
13. Remove left and right wall lamp assemblies, refer to the “left wall lamp assembly”
14. Remove the right and the left roof handles. See “side roof handle”.
15. Dismantle the roof assembly refer to the roof assembly
16. Remove the Shark fin antenna assembly
 - 1) Disconnect the shark fin antenna assembly wire harness connector 1.
 - 2) Remove the one fixing bolt 2 of the shark fin antenna assembly.



- 3) Remove the shark fin antenna assembly from the roof.



3) Connect the sunroof rear water outlet pipe to the sunroof assembly.

2. Install the roof assembly

3. Install the left and the right side roof handles.

4. Install left and right side wall lamp assemblies

5. Install the front roof lamp assembly

6. Install the sun visor assembly

7. Install the right and the left C pillar upper guard assemblies.

8. Install the right and the left C pillar lower guard assemblies.

9. Install the rear row seat assembly

10. Install the right and the left B pillar upper guard assemblies.

11. Install the right and the left B pillar lower guard assemblies.

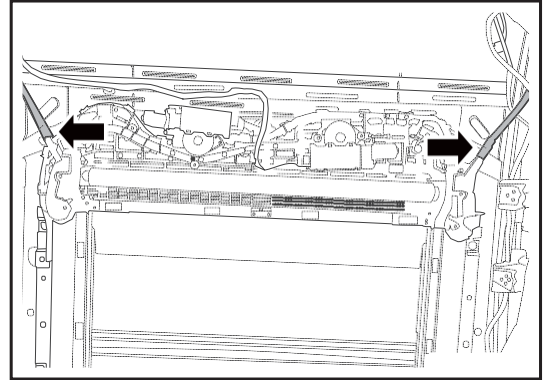
12. Install left rear doorsill guard plate assembly.

13. Install the front doorsill guard plate assembly.

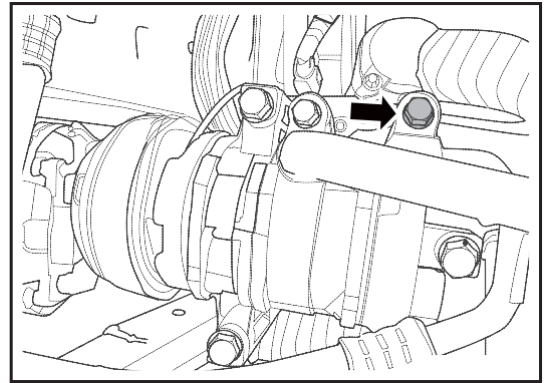
14. Install the right and the left A column upper panel assembly

15). Connect the battery negative cable.

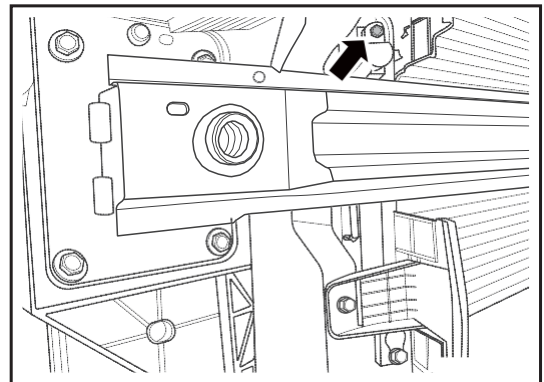
16. Close the engine compartment cover



- 1) Remove the exhaust pipe fixing bolt, and disconnect the exhaust pipe and the compressor.



- 2) Remove the exhaust pipe fixing bolt, and disconnect the exhaust pipe and the condenser.

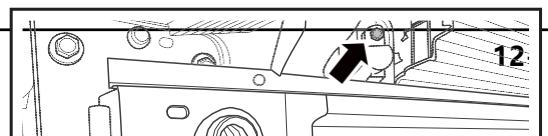


(2) Installation

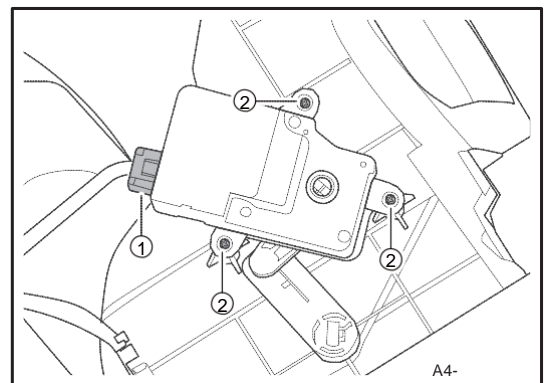
1. Install the exhaust pipe assembly

- 1) Connector the exhaust pipe and the condenser, install and tighten the 1 fixing bolts.

Exhaust Pipe Assy.



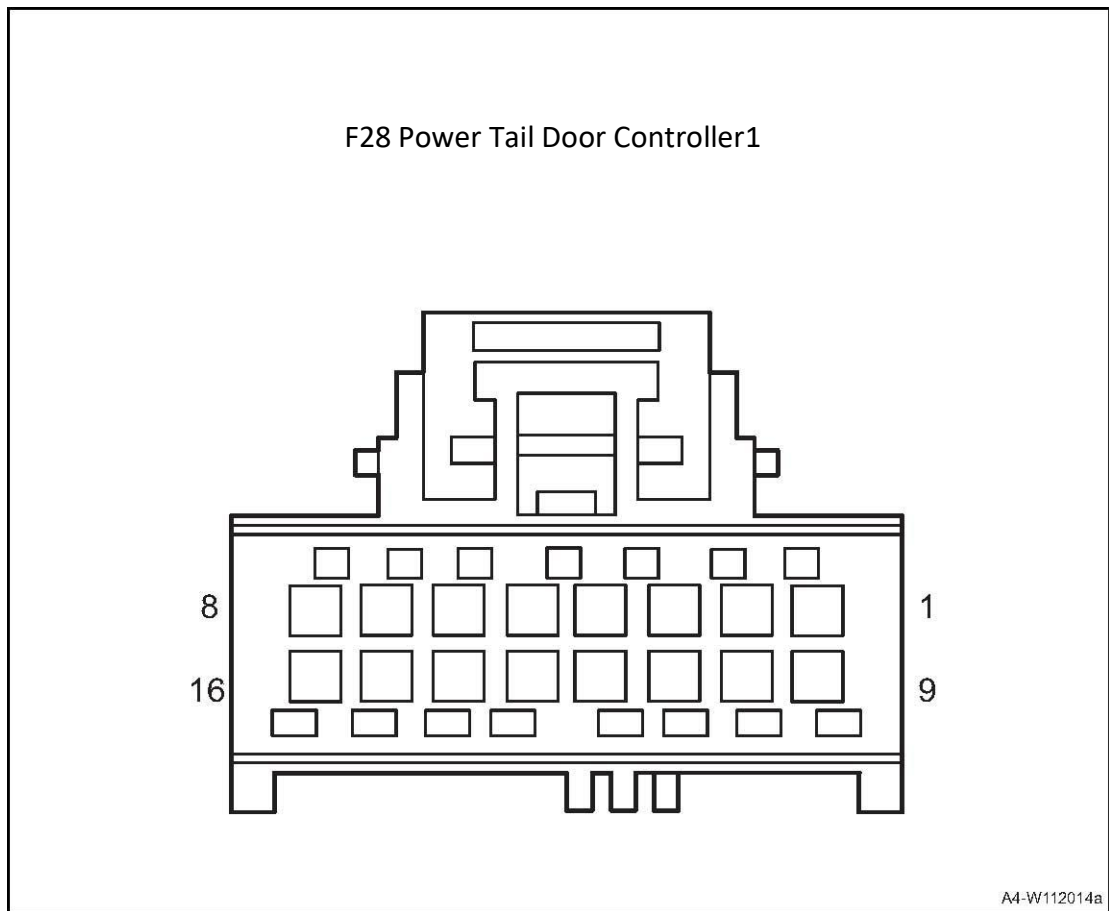
10. Remove the steering wheel assembly, refer to the “Steering Wheel Assembly”.
11. Disassemble the clock spring. Refer to “Clock Spring”.
12. Dismantle the combination switch assembly, refer to “combination switch assembly”
13. Remove the instrument cluster cover assembly, refer to the “instrument cluster cover assembly”.
14. Disassemble the steering column housing lower shell, refer to “steering column lower shell”.
15. Disassemble the instrument cluster assembly, refer to the “instrument cluster assembly”.
16. Dismantle the dashboard left end cover assembly, refer to the “dashboard left end cover assembly”.
17. Dismantle the dashboard right end cover assembly, refer to the “dashboard right end cover assembly”.
18. Dismantle the fuse box cover, refer to the “fuse box cover”.
19. Remove the driver lower guard assembly, refer to “driver lower guard assembly”.
20. Remove dashboard left vent, refer to the “dashboard left vent”.
21. Remove the central left trim panel assembly. Refer to the “central left trim panel assembly”.
22. Dismantle the glove box assembly refer to glove box assembly
23. Remove the co-pilot side trim panel, refer to “co-pilot side trim panel”.
24. Remove dashboard right vent, refer to the “dashboard right vent”.
25. Dismantle the right and the left A pillar upper panel assembly, refer to the “A pillar upper panel assembly”.
26. Remove the right and the left A pillar lower panel assembly , refer to the “A pillar lower panel assembly”.
27. Dismantle the front display screen, refer the the “front display screen”.
28. Dismantle the front display screen host, refer to the “front display screen host”.
29. Dismantle the 12V on-board power, refer to the “12V on-board power”
30. Dismantle the multimedia interface assembly, refer to the “multimedia interface assembly”.
31. Dismantle the dashboard body assembly, refer to the “dashboard body assembly”
32. Disassemble the inner and outer circulation throttle motor.
 - 1) Disconnect the inner and outer circulation throttle motor wire harness connector①
 - 2) Remove the 3 screws②fixing the inner and outer circulation throttle motor.
 - 3) Take down the inner and outer circulation throttle motor.



14. Dismantle the combination switch assembly, refer to “combination switch assembly”
15. Remove the instrument cluster cover assembly, refer to the “instrument cluster cover assembly”.
16. Disassemble the steering column housing lower shell, refer to “steering column lower shell”.
17. Disassemble the instrument cluster assembly, refer to the “instrument cluster assembly”.
18. Dismantle the dashboard left end cover assembly, refer to the “dashboard left end cover assembly”.
19. Dismantle the dashboard right end cover assembly, refer to the “dashboard right end cover assembly”.
20. Dismantle the fuse box cover, refer to the “fuse box cover”.
21. Remove the driver lower guard assembly, refer to “driver lower guard assembly”.
22. Remove dashboard left vent, refer to the “dashboard left vent”.
23. Remove the central left trim panel assembly. Refer to the “central left trim panel assembly”.
24. Dismantle the glove box assembly refer to glove box assembly
25. Remove the passenger side panel Assembly. Refer to the passenger side panel Assembly

F53	2	R/B	0.5	Ground lamp(left)
F53	4	Gr/B	0.5	Ground lamp(right)
F53	19	G/R	0.5	Left rear turn lamp signal
F53	20	Bl/R	0.5	Right rear turn lamp signal

Power tail door controller 1 diagram

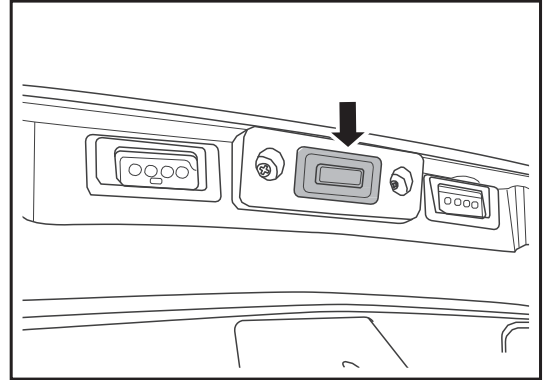


Connector No.	Connector pin	Wire Color	Wire Diameter	Pin Definition
F28	2	Br/B	0.35	Delay off indicator
F28	3	G/Bl	0.35	Tail door lower switch
F28	4	Gr	0.35	Self priming reset signal
F28	5	G/Bl	0.35	Half lock position signal
F28	6	Bl/Y	0.35	Half lock position signal switch
F28	7	Y	0.5	BCAN_L
F28	9	Bl/R	0.5	Electric unlock motor

(2) Installation

1. Install the tail door outer switch.

1) Put the tail door outer switch at installation position.

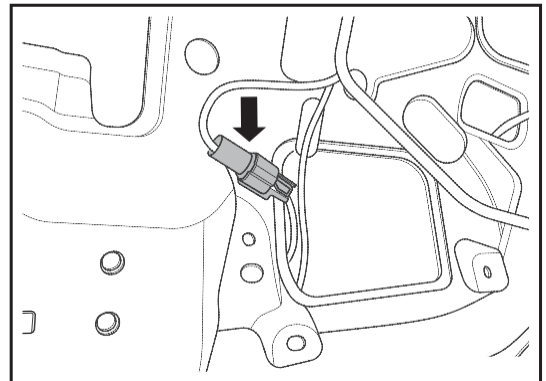


2) Connect the tail door outer switch wire harness connector.

2. Install tail door trim panel assembly

3. Connect the battery negative cable.

4. Close the engine compartment cover.



XIV Tail Door Switch Bracket

(1) Disassemble