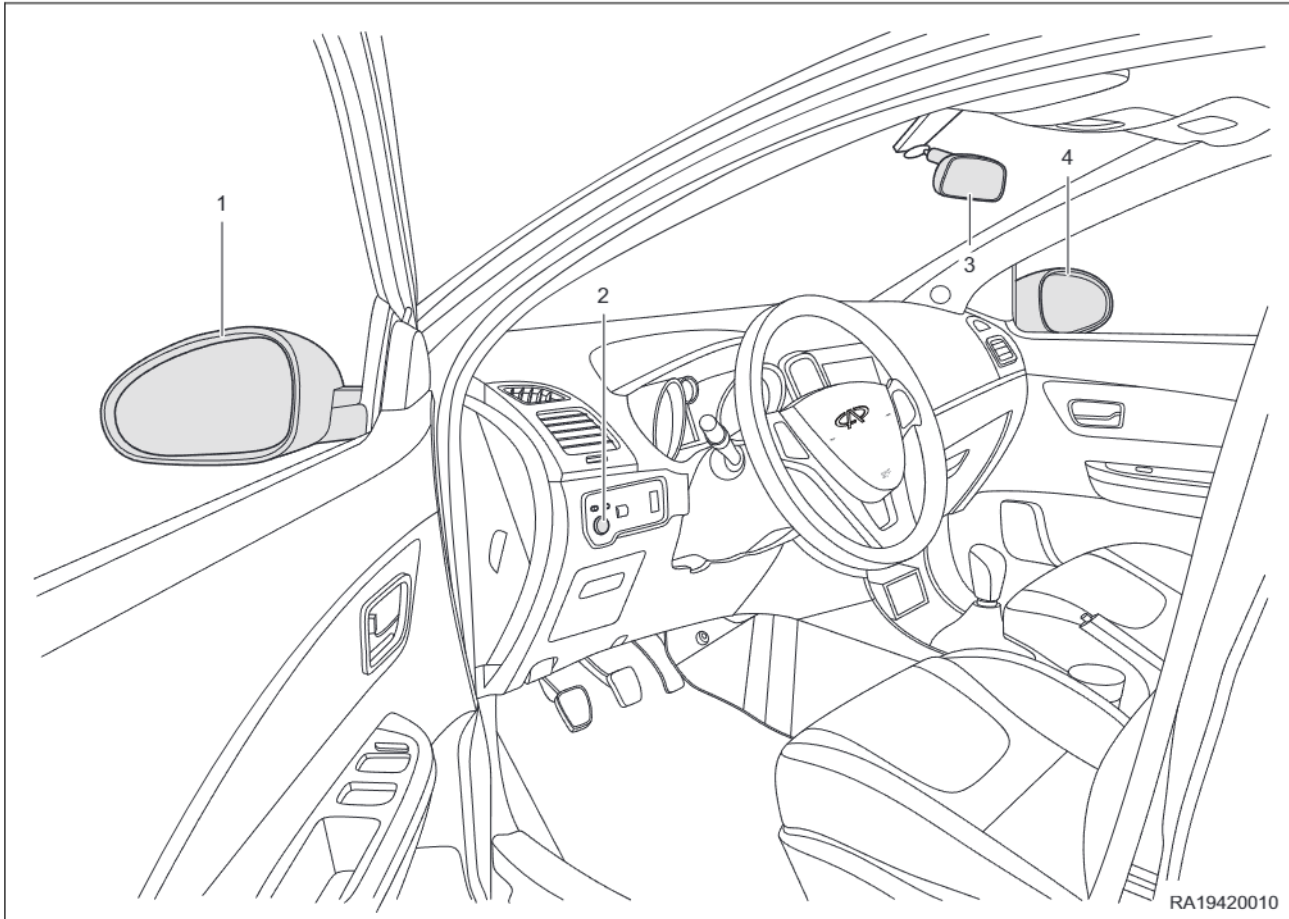

REAR VIEW MIRROR

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GENERAL INFORMATION

Description



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1 - Left Outside Rear View Mirror	2 - Outside Rear View Mirror Adjustment Switch Assembly
3 - Inside Rear View Mirror	4 - Right Outside Rear View Mirror

This vehicle is equipped with power outside rear view mirror and inside rear view mirror.

Power outside rear view mirror: the driver can control the rotation of motor by operating the outside rear view mirror adjustment switch in the vehicle, thus adjusting the mirror surface to achieve the required visual angle.

The power outside rear view mirror adjustment switch is located on the instrument panel left end cover assembly. With the ignition switch ON, press the outside rear view mirror switch to "L" or "R" position to select the left or right outside rear view mirror to be adjusted, and then press the rear view mirror up or down and left or right button to achieve a required visual angle.

When there is fog or frost on the power outside rear view mirror lens, the heat defogger wire in the lens can remove the fog or frost by heating the lens with the rear window defogger switch being pressed.

It is necessary to adjust the inside rear view mirror manually to the desired direction. When driving at night, the rear view mirror angle can be adjusted by pulling back the glare-resistant rod to reduce glare.

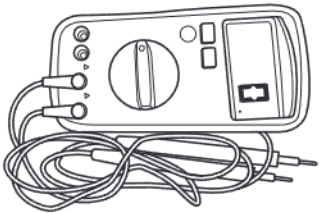
Specification

Torque Specification

Description	Torque (N·m)
Outside Rear View Mirror Assembly Fixing Nut	7 ± 1.5

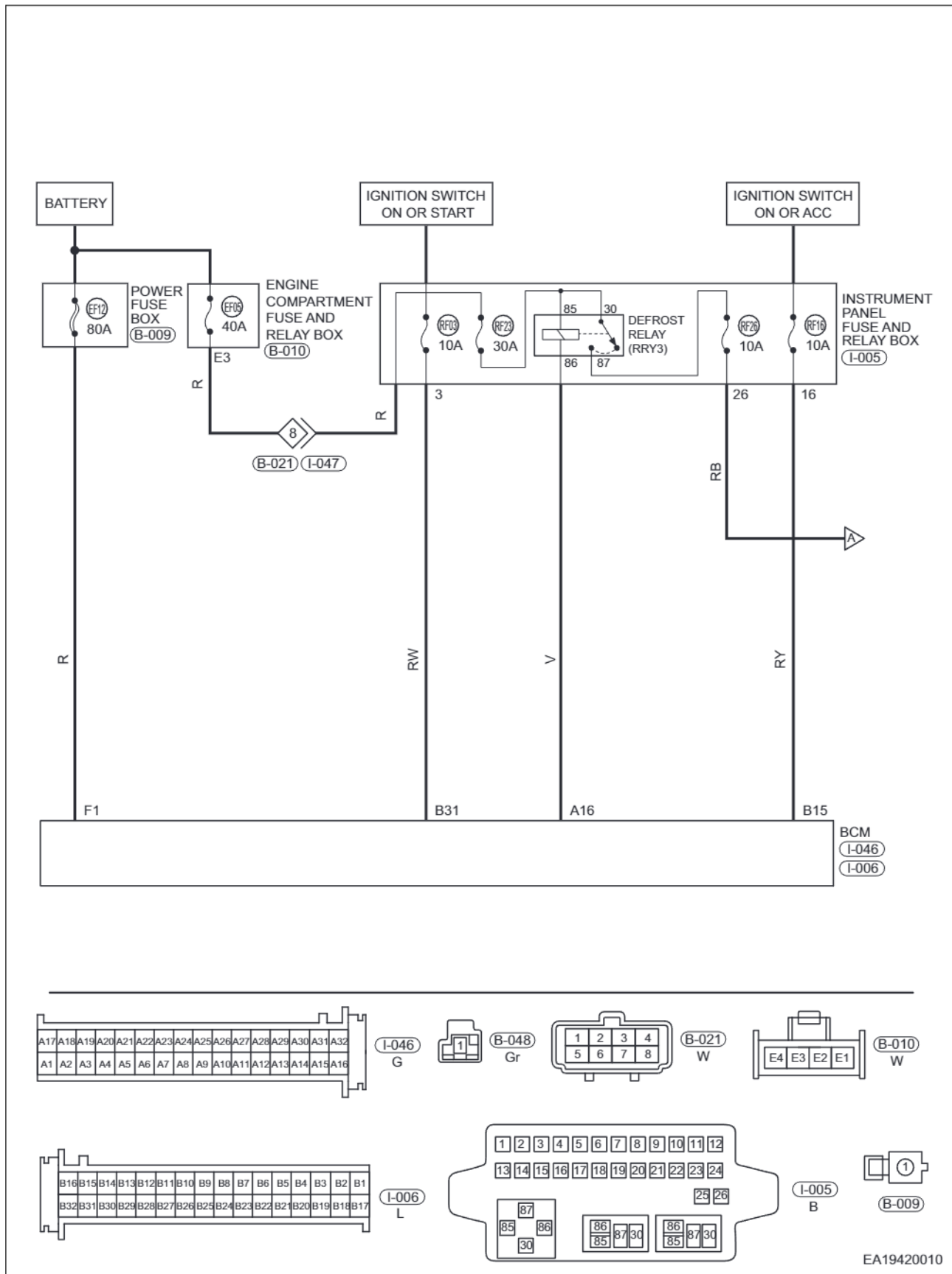
Tool

General Tool

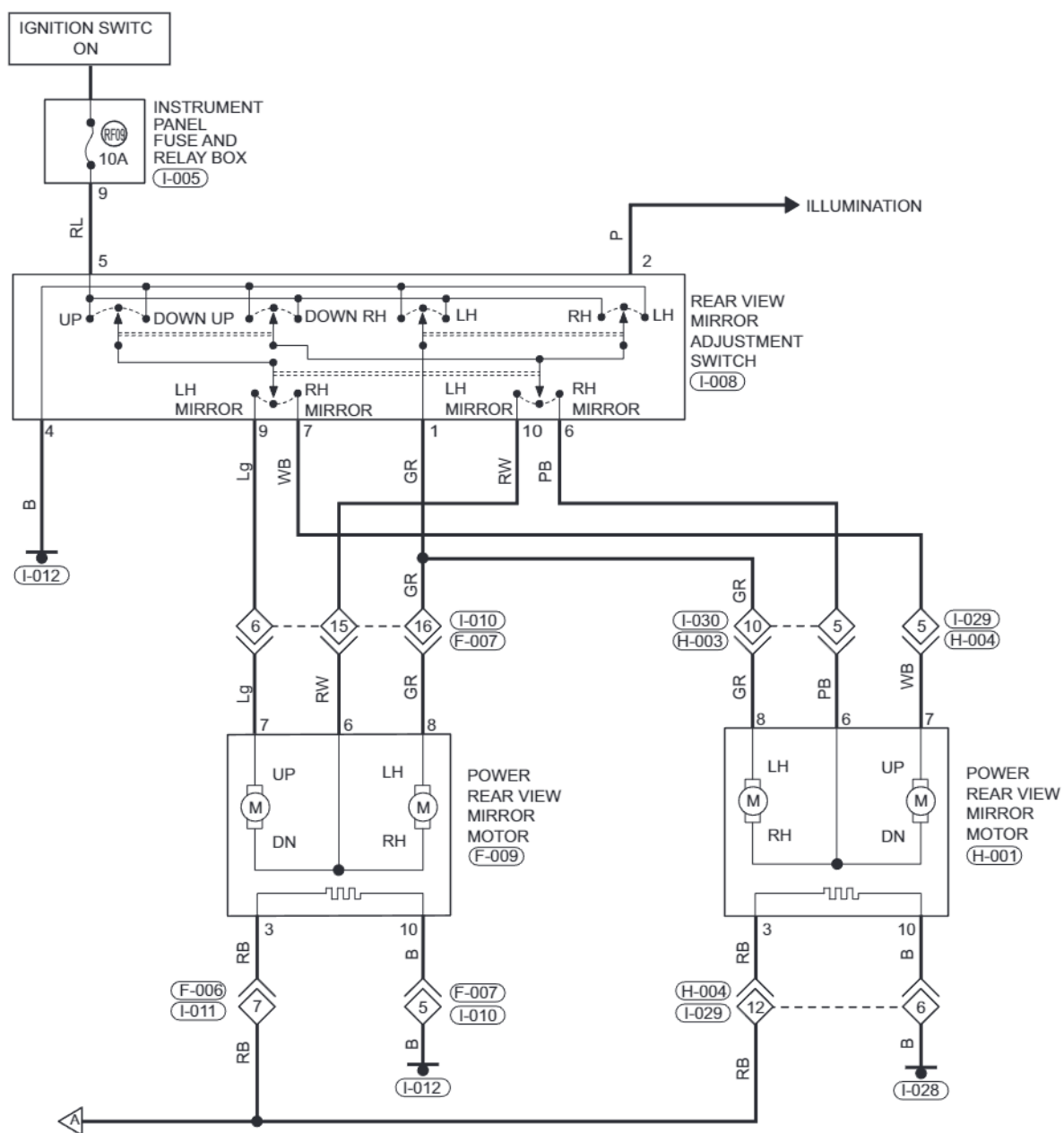
Digital Multimeter	 RCH0000002
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Circuit Diagram

System Circuit Diagram for Rear View Mirror (Page 1 of 2)



System Circuit Diagram for Rear View Mirror (Page 2 of 2)



EA19420020

DIAGNOSIS & TESTING

Problem Symptoms Table

HINT:

Use the table below to help determine the cause of problem symptoms. Check each suspected area in sequence. Repair or replace the suspected parts, or adjust it.

Symptom	Suspected Area	See Page
Outside rear view mirror cannot operate	Fuse	49-28
	Outside rear view mirror adjustment switch assembly	42-13
	Outside rear view mirror assembly	42-8
	Wire harness or connector	-
Outside rear view mirror cannot defrost	Fuse	49-28
	Rear defroster switch	41-80
	Outside rear view mirror assembly	42-8
	Wire harness or connector	-
	Body Control Module (BCM)	-
Outside rear view mirror intermittent malfunction	Ground	49-22
	Wire harness or connector	-

Service Precautions

Visual inspection can reduce the unnecessary test and diagnostic time, so pay attention to the following inspection items:

1. Check if the fuse is damaged.
2. Check if the wire harnesses and connectors related to the rear view mirror are worn, pierced, pinched or partially broken.
3. Check if the wire harnesses and connectors related to the rear view mirror are broken, bent, protruded or corroded terminals.
4. Check if the terminal contact pins of the wire harnesses and connectors related to the rear view mirror are in good condition.

ON-VEHICLE SERVICE

Outside Rear View Mirror Assembly

Removal

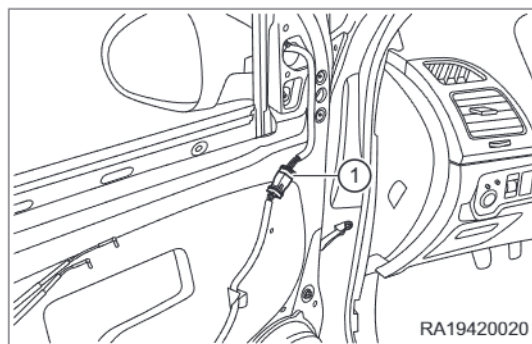
HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

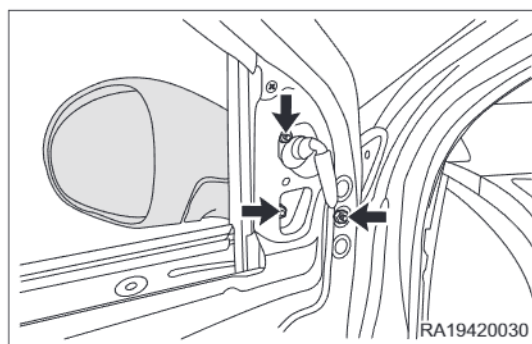
CAUTION

- When removing the outside rear view mirror assembly, make sure to wear safety equipment to prevent accidents.
- When removing the outside rear view mirror assembly, operate carefully to prevent damage to the components.
- When removing the outside rear view mirror assembly, prevent scratching the interior and body paint surface.

1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front left door inner protector assembly ([See page 45-19](#)).
4. Remove the left outside rear view mirror assembly.
 - a. Disconnect the outside rear view mirror connector (1).



- b. Remove 3 fixing nuts (arrow) from the outside rear view mirror assembly.
(Tightening torque: $7 \pm 1.5 \text{ N}\cdot\text{m}$)



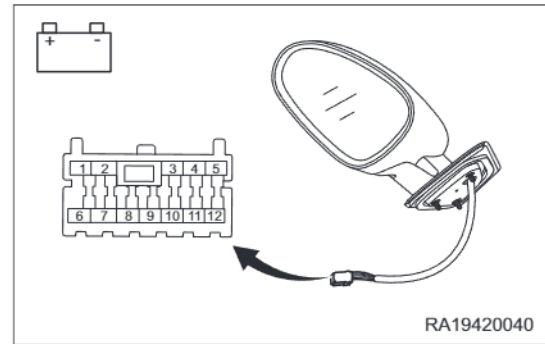
- c. Remove the left outside rear view mirror assembly.

Inspection

1. Check the left outside rear view mirror assembly.
 - a. Apply battery voltage to the terminals of outside rear view mirror connector and check the operation of outside rear view mirror according to the table below.

Measurement Condition	Specified Condition
Battery positive (+) → Terminal 8 Battery negative (-) → Terminal 6	UP
Battery positive (+) → Terminal 6 Battery negative (-) → Terminal 8	DOWN
Battery positive (+) → Terminal 7 Battery negative (-) → Terminal 6	LEFT
Battery positive (+) → Terminal 6 Battery negative (-) → Terminal 7	RIGHT

If the result is not as specified, replace the left outside rear view mirror assembly.



Installation

Installation is in the reverse order of removal.

CAUTION

- Connect the connector in place and tighten the fixing nuts to the specified torque when installing the outside rear view mirror assembly.
- Make sure the outside rear view mirror assembly can move smoothly after installing.

Outside Rear View Mirror Lens Assembly

Removal

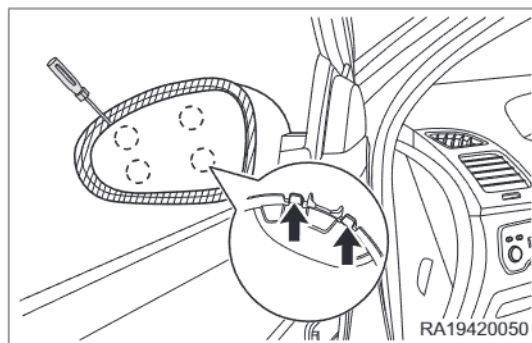
HINT:

- Use the same procedures for the right side and left side.
- The procedures listed below are for the left side.

CAUTION

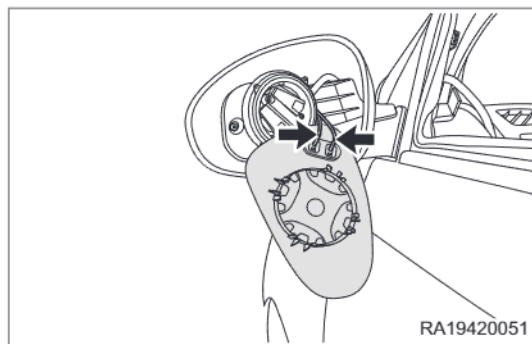
- Avoid breaking the claw when removing the outside rear view mirror lens assembly.
- Avoid damaging the lens due to dropping when removing the outside rear view mirror lens assembly.
- Prevent the body paint surface from being scratched when removing the outside rear view mirror lens assembly.

1. Remove the left outside rear view mirror lens assembly.
 - a. Press the outside rear view mirror surface to tilt it.
 - b. Apply protective tape around the outside rear view mirror.
 - c. Using a screwdriver wrapped with protective tape, detach the claws (arrow) of outside rear view mirror lens.



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- d. Disconnect the connectors (arrow) from the outside rear view mirror lens.



- e. Remove the left outside rear view mirror lens assembly.

Inspection

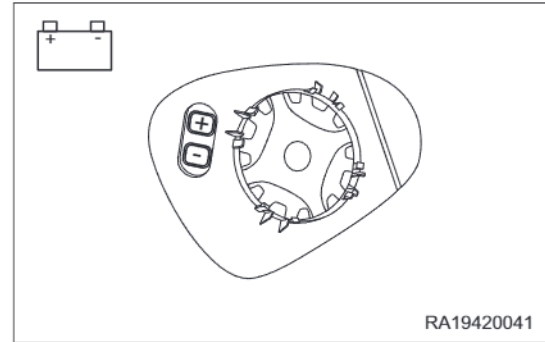
1. Check the left outside rear view mirror lens assembly heater.
 - a. Apply battery voltage to the terminals of outside rear view mirror lens assembly connector and check the operation of outside rear view mirror lens assembly according to the table below.

Measurement Condition		Specified Condition
Battery positive (+)	Battery negative (-)	Outside rear view mirror lens become warm

HINT:

The outside rear view mirror lens become warm in a short time.

If the result is not as specified, replace the left outside rear view mirror lens assembly.



Installation

Installation is in the reverse order of removal.

CAUTION

- Connect the connectors in place when installing the outside rear view mirror assembly.
- Make sure the outside rear view mirror lens assembly can move smoothly when installing.

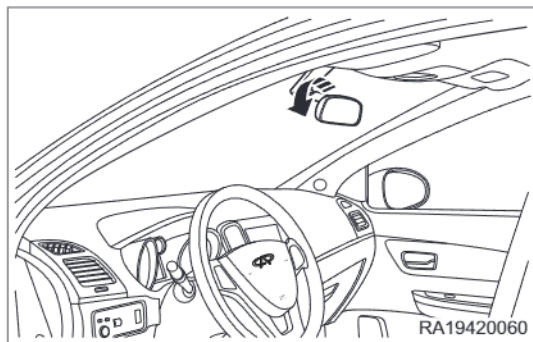
Inside Rear View Mirror Assembly

Removal

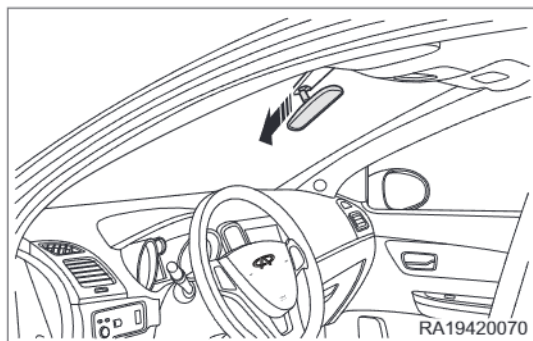
CAUTION

- Appropriate force should be applied when removing the rear trunk trim assembly, and avoid operating roughly.
- Prevent the front windshield from being scratched when removing the inside rear view mirror assembly.

1. Remove the inside rear view mirror assembly.
 - a. Rotate the inside rear view mirror assembly by 90°.



- b. Remove the inside rear view mirror assembly in the direction of arrow as shown in the illustration.



Installation

Installation is in the reverse order of removal.

CAUTION

- Make sure the inside rear view mirror assembly can move smoothly after installing.

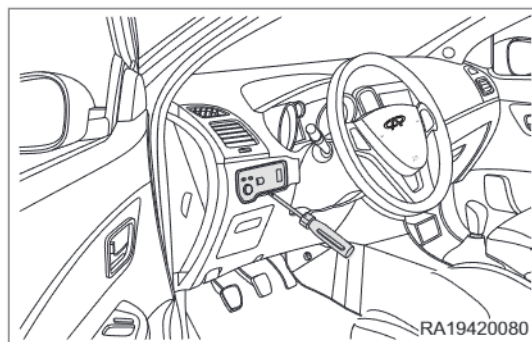
Outside Rear View Mirror Adjustment Switch Assembly

Removal

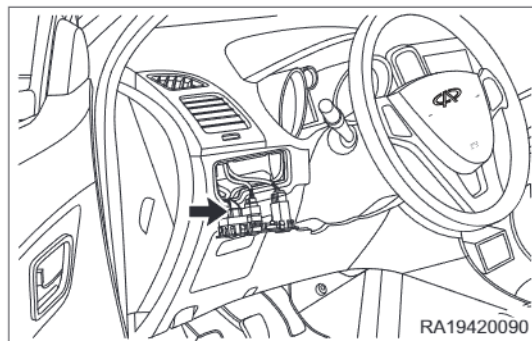
CAUTION

- Prevent the interior from being scratched when removing the outside rear view mirror adjustment switch assembly.

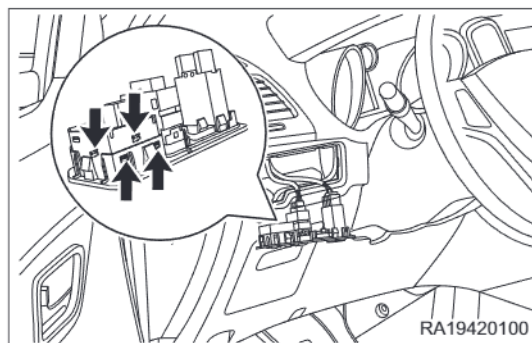
1. Turn off all the electrical equipment and ignition switch.
2. Disconnect the negative battery cable.
3. Remove the outside rear view mirror adjustment switch assembly.
 - a. Using a screwdriver wrapped with protective tape, pry out the headlight adjustment switch unit.



- b. Disconnect the outside rear view mirror adjustment switch connector (arrow).



- c. Using a screwdriver wrapped with protective tape, detach the claws of outside rear view mirror adjustment switch assembly (arrow).



- d. Remove the outside rear view mirror adjustment switch assembly.

Inspection

1. Check the outside rear view mirror adjustment switch assembly.
 - a. Adjust the outside rear view mirror adjustment switch assembly to "L" position.
 - b. Using a multimeter, check for continuity between terminals of the outside rear view mirror adjustment switch assembly according to the following table.

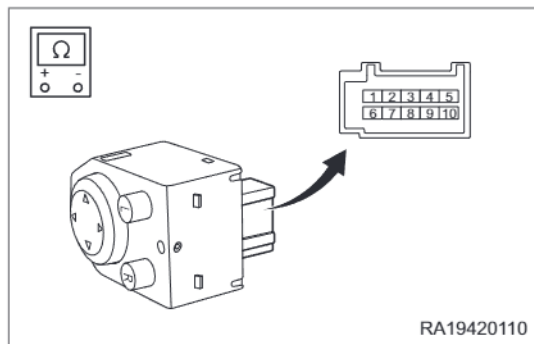
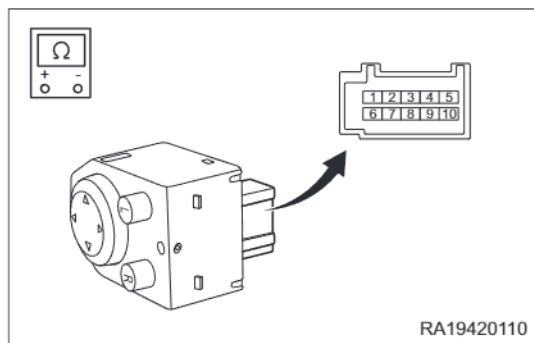
Multimeter Connecting Terminal	Switch Condition	Specified Condition
1 - 10 1 - 5	UP	Continuity
	OFF	No continuity
5 - 10 1 - 4	DOWN	Continuity
	OFF	No continuity
5 - 9 10 - 4	LEFT	Continuity
	OFF	No continuity
5 - 10 9 - 4	RIGHT	Continuity
	OFF	No continuity

If the result is not as specified, replace the outside rear view mirror adjustment switch assembly.

- c. Adjust the outside rear view mirror adjustment switch assembly to "R" position.
- d. Using a multimeter, check for continuity between terminals of the outside rear view mirror adjustment switch assembly according to the following table.

Multimeter Connecting Terminal	Switch Condition	Specified Condition
4 - 6 1 - 5	UP	Continuity
	OFF	No continuity
5 - 6 1 - 4	DOWN	Continuity
	OFF	No continuity
5 - 7 4 - 6	LEFT	Continuity
	OFF	No continuity
5 - 6 4 - 7	RIGHT	Continuity
	OFF	No continuity

If the result is not as specified, replace the outside rear view mirror adjustment switch assembly.



Installation

Installation is in the reverse order of removal.

CAUTION

- Connect the connectors in place when installing the outside rear view mirror adjustment switch assembly.
- Operate carefully to prevent damage to other components during installing the outside rear view mirror adjustment switch assembly.
- Check that the switch can operate normally after installing the outside rear view mirror adjustment switch assembly.

