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2017 MAZDA MX-5 / Miata RF OEM Service and Repair Workshop Manual

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POWER WINDOW SUBSWITCH INSPECTION

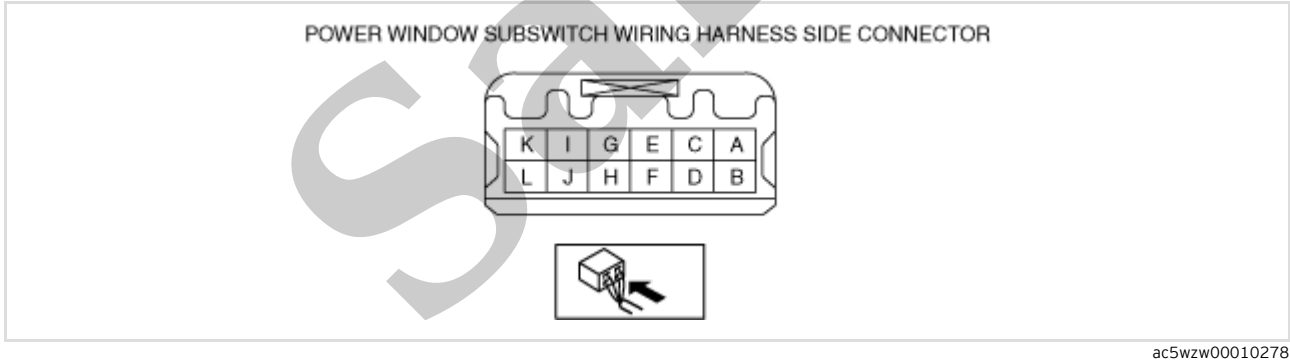
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- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove the power window subswitch. (See [POWER WINDOW SUBSWITCH REMOVAL/INSTALLATION.](#))
- 3.Connect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 4.Connect the power window subswitch connector.
- 5.Measure the voltage at each terminal.

- If the voltage is not as specified in the terminal voltage table, inspect the parts under "Inspection item(s)" and related wiring harnesses.
 - If the system does not work properly even though the inspection items or related wiring harnesses do not have any malfunction, replace the power window subswitch.

Terminal voltage table (reference)



Terminal	Signal name	Connected to	Measurement condition	Voltage (V)	Inspection item (s)
A	Serial communication	Power window main switch	Because this terminal is for communication, integrity determination by terminal voltage is not possible		<ul style="list-style-type: none">• Power window subswitch (See POWER WINDOW SUBSWITCH INSPECTION.)• Related wiring harness
C	Power supply (passenger's side)	P.WINDOW2 25 A fuse	Under any condition	B+	<ul style="list-style-type: none">• P.WINDOW2 25 A fuse• Related wiring harness
	Power supply (LR/RR)	P.WINDOW3 30 A fuse	Under any condition	B+	<ul style="list-style-type: none">• P.WINDOW3 30 A fuse• Related wiring harness



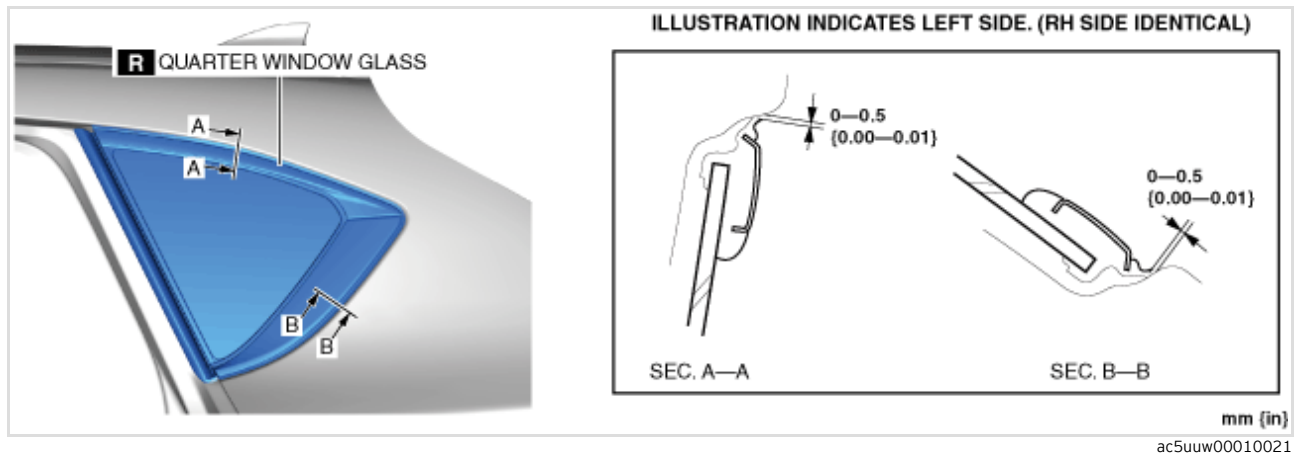
R FASTENER

ILLUSTRATION INDICATES LEFT SIDE. (RH SIDE IDENTICAL)

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Sample

9. Verify that the clearance shown in the figure is within the standard, then press the entire perimeter of the glass.



10. Install the following parts:

- (1) C-pillar trim (See [C-PILLAR TRIM REMOVAL/INSTALLATION.](#))
- (2) Trunk side trim (See [TRUNK SIDE TRIM REMOVAL/INSTALLATION.](#))
- (3) Rear scuff plate (See [REAR SCUFF PLATE REMOVAL/INSTALLATION.](#))
- (4) Trunk end trim (See [TRUNK END TRIM REMOVAL/INSTALLATION.](#))
- (5) Sub-trunk (See [SUB-TRUNK REMOVAL/INSTALLATION.](#))
- (6) Bass-box (with Bose[®]) (See [BASS-BOX REMOVAL/INSTALLATION.](#))
- (7) Trunk board (See [TRUNK BOARD REMOVAL/INSTALLATION.](#))

11. Connect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))

12. Allow the sealant to harden completely.

Note

- Follow the product instructions for the sealant hardening time.

OUTER MIRROR GLASS REMOVAL

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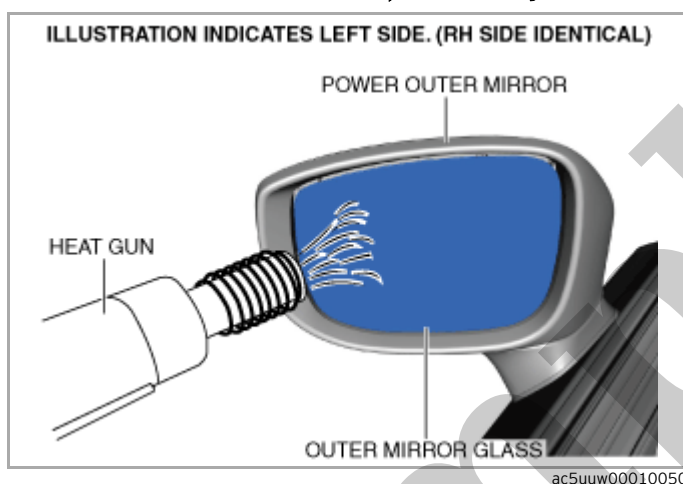
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Note

- Removal of the outer mirror glass can be facilitated by warming the back of the glass to approx. 50 °C (90 °F) to 60 °C (108 °F) using a heat gun.

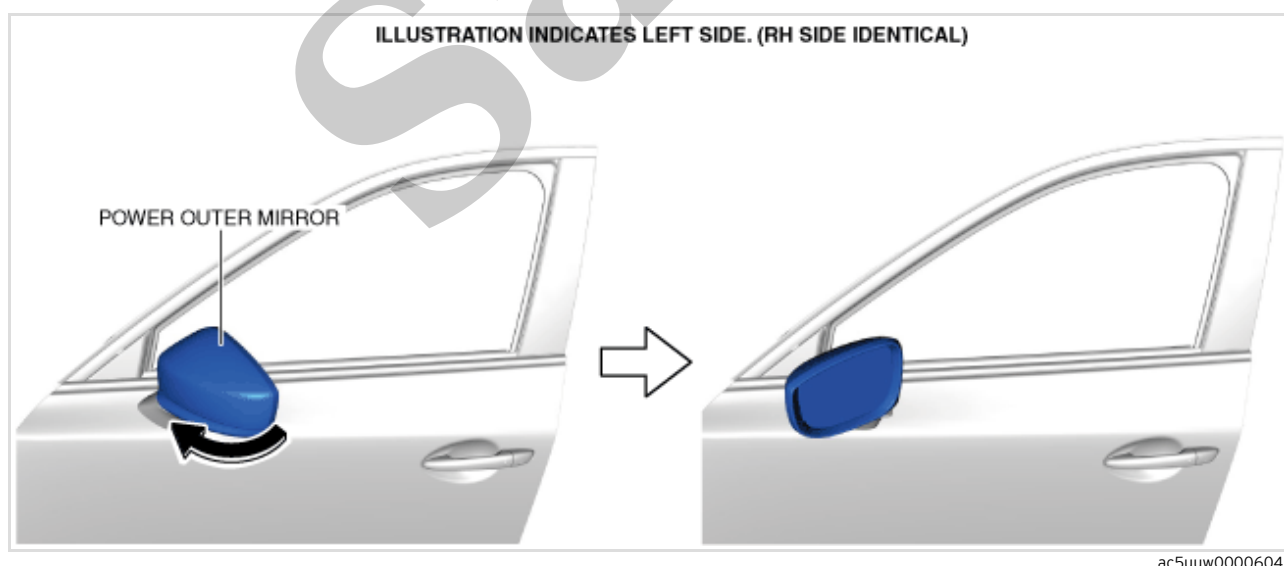
Caution

- Be careful not to overheat the outer mirror, as temperatures higher than 60 °C (108 °F) could deform it.



1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))

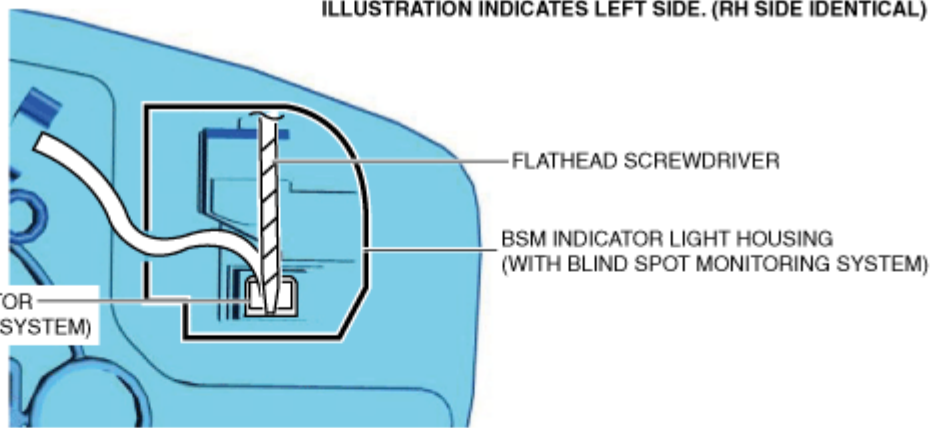
2. To facilitate removal of the outer mirror glass, orient the outer mirror in the direction of the arrow shown in the figure.



3. To prevent scratches or damage, apply protective tape to the positions shown in the figure.

ILLUSTRATION INDICATES LEFT SIDE. (RH SIDE IDENTICAL)

BSM INDICATOR LIGHT CONNECTOR
(WITH BLIND SPOT MONITORING SYSTEM)

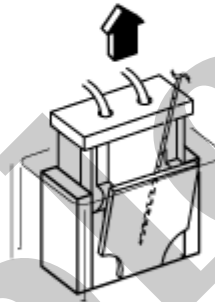
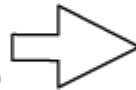


BSM INDICATOR LIGHT CONNECTOR
(WITH BLIND SPOT MONITORING SYSTEM)

FLATHEAD SCREWDRIVER

BSM INDICATOR
LIGHT HOUSING
(WITH BLIND SPOT
MONITORING SYSTEM)

TAB

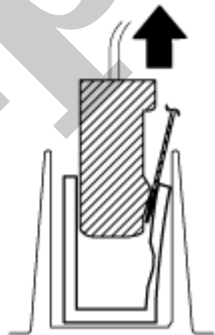


BSM INDICATOR LIGHT CONNECTOR
(WITH BLIND SPOT MONITORING SYSTEM)

FLATHEAD SCREWDRIVER

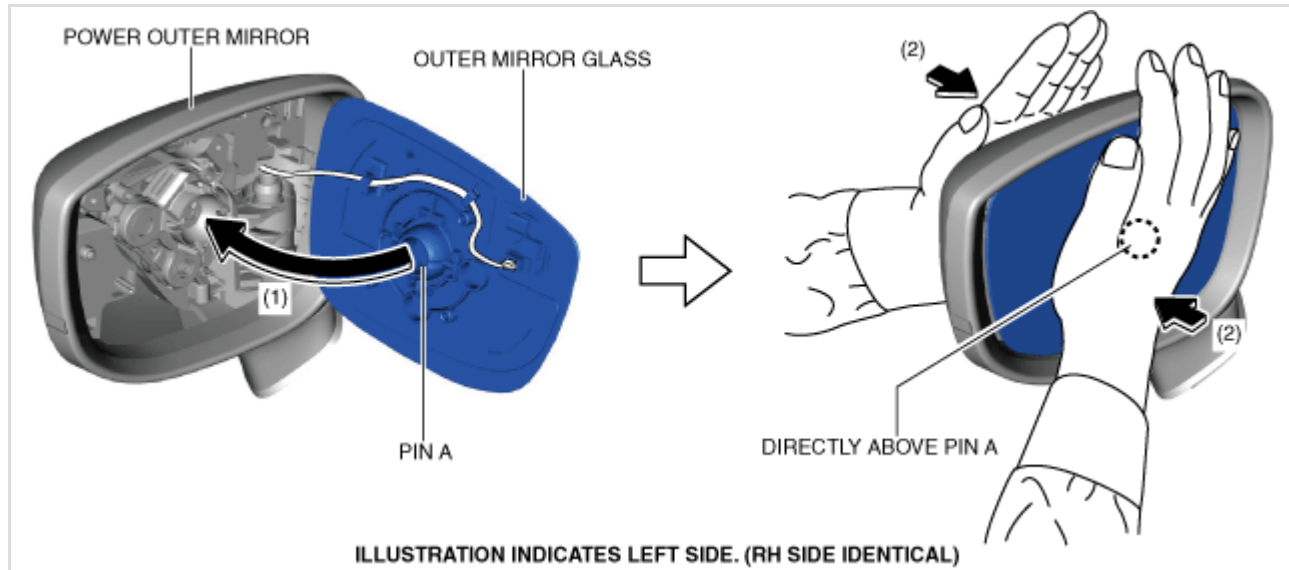
BSM INDICATOR
LIGHT HOUSING
(WITH BLIND SPOT
MONITORING SYSTEM)

TAB



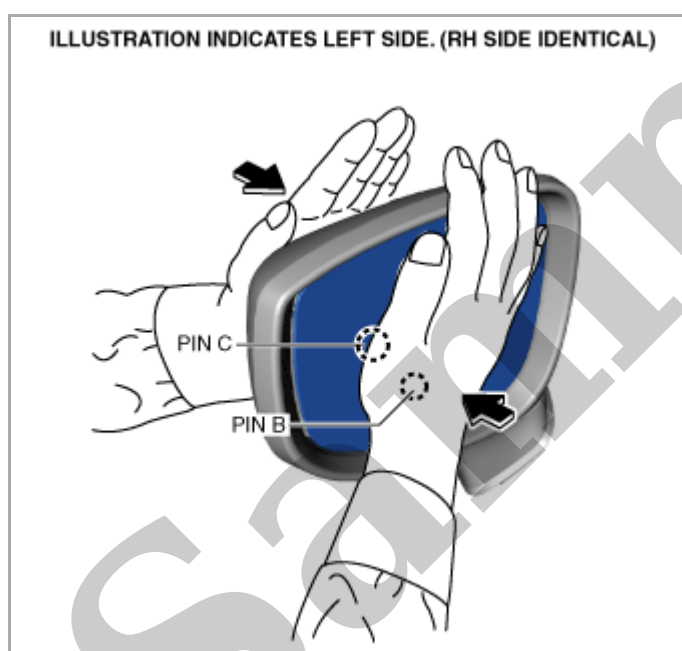
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10.Remove the outer mirror glass holder and the outer mirror glass as a single unit.



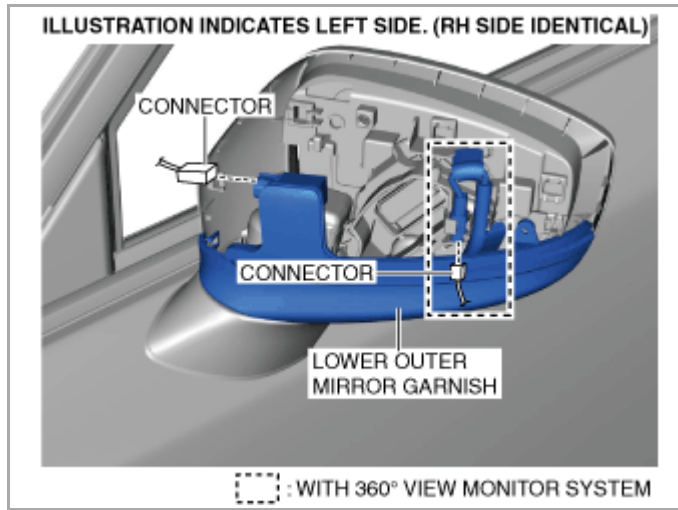
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7. Install pins B and C in the same manner as Step 6.



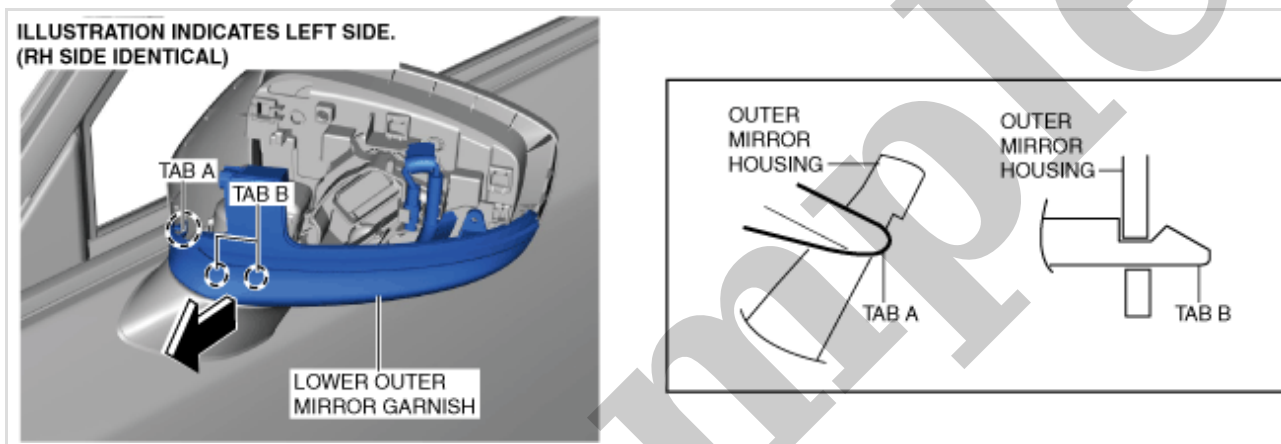
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8. Connect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))



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6. Using a tape-wrapped flathead screwdriver, detach the tabs in the order of tabs A and B while pulling the lower outer mirror garnish in the direction of the arrow shown in the figure.



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7. Remove the lower outer mirror garnish.

Note

- If the lower outer mirror garnish is replaced, remove the side turn light. (See [SIDE TURN LIGHT REMOVAL/INSTALLATION.](#))
- If the lower outer mirror garnish is replaced, remove the side camera. (with 360° view monitor system) (See [SIDE CAMERA REMOVAL/INSTALLATION.](#))

8. Install in the reverse order of removal.

9. Perform the 360° view monitor system aiming. (with 360° view monitor system) (See [360°VIEW MONITOR SYSTEM AIMING.](#))

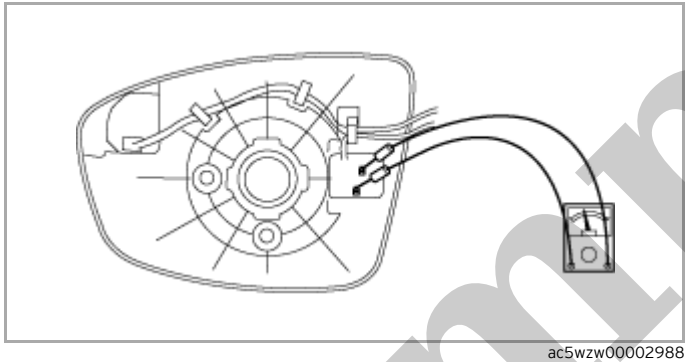
OUTER MIRROR GLASS INSPECTION

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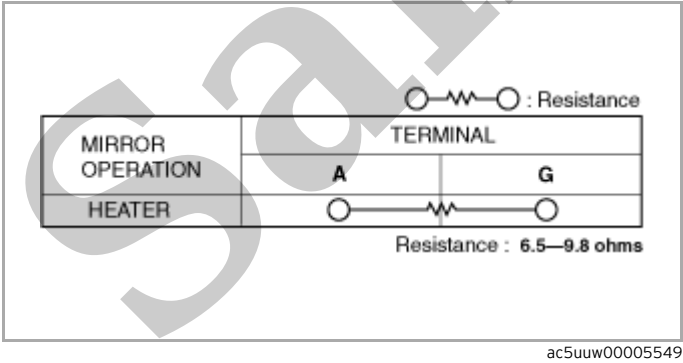
Heated Outer Mirror

- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove the outer mirror glass. (See [OUTER MIRROR GLASS REMOVAL.](#))(See [OUTER MIRROR GLASS INSTALLATION.](#))
- 3.Verify that the resistance and continuity between the heated outer mirror terminals is as indicated in the table.



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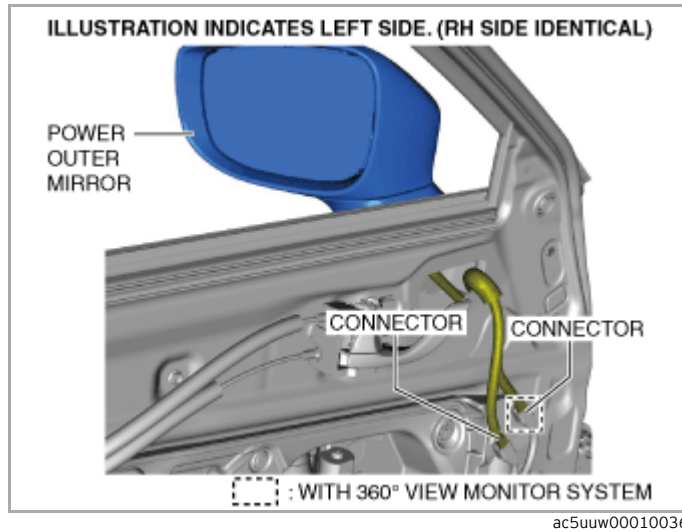
- If not as indicated in the table, or if the resistance is not within the specification, replace the outer mirror glass.



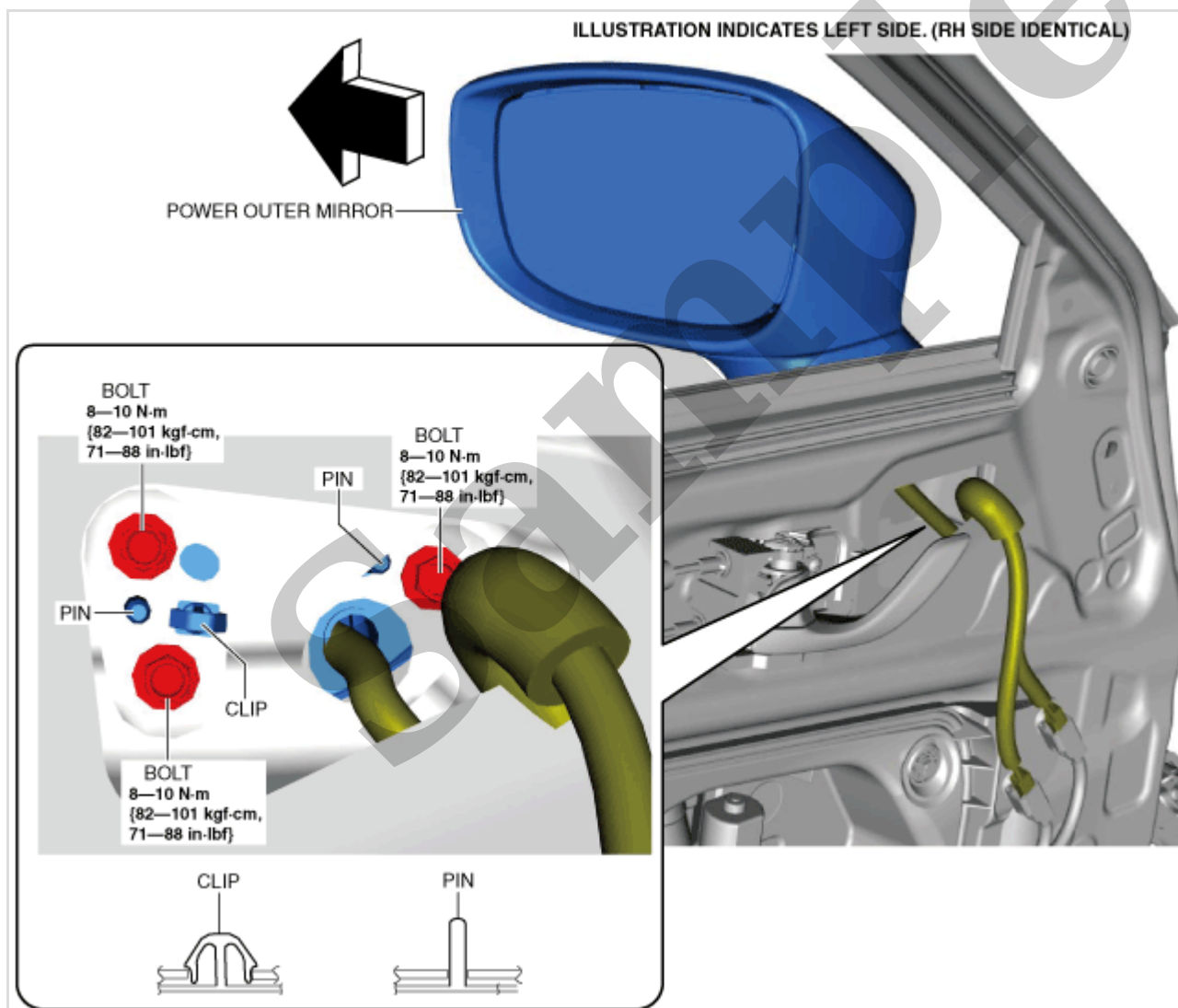
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Blind spot monitoring (BSM) warning indicator light

- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove the outer mirror glass. (See [OUTER MIRROR GLASS REMOVAL.](#))(See [OUTER MIRROR GLASS INSTALLATION.](#))
- 3.Prepare four dry cell batteries (1.5 V).



8.Remove the bolts.



9.Pull the power outer mirror in the direction shown in the figure and remove it while detaching the clip and pins.

Caution