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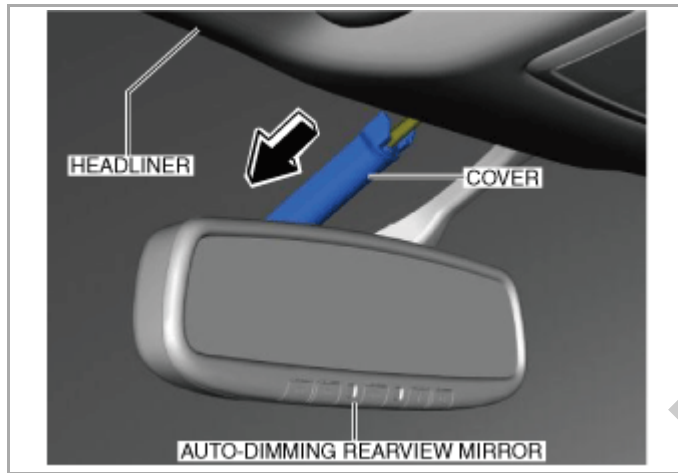
2017 MAZDA MX-5 / Miata Roadster Coupe OEM Service and Repair Workshop Manual

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Without Sensor Cover

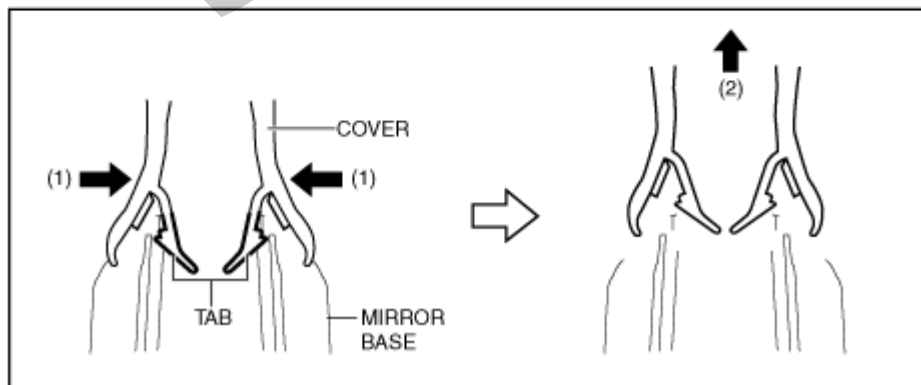
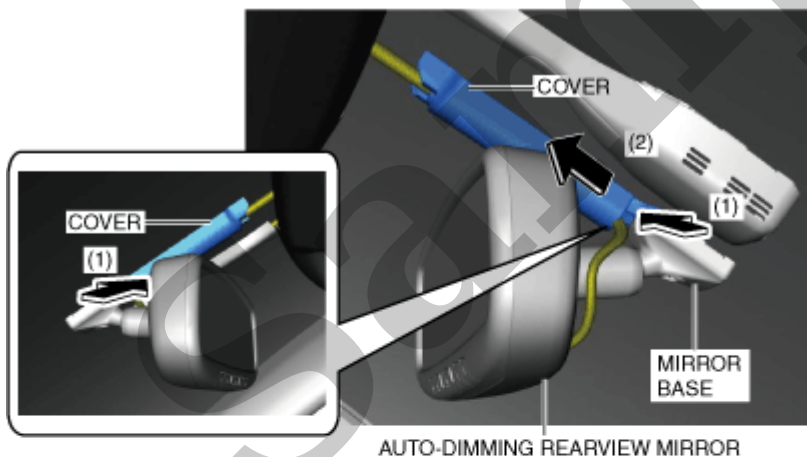
1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))

2. Slide the cover in the direction of the arrow shown in the figure.



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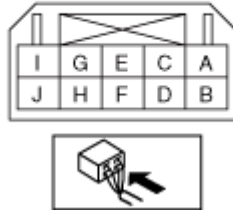
3. Detach tabs while push the cover in the direction of the arrow (1) shown in the figure, then remove the cover in the direction of the arrow (2).



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4. Disconnect the auto-dimming rearview mirror connector.

**AUTO-DIMMING REARVIEW MIRROR
WIRING HARNESS-SIDE CONNECTOR**



ac9uuw00009407

Terminal	Signal name	Connected to	Measured condition	Voltage (V)	Inspection item(s)
A	—	—	—	—	—
B	IG1	C/U IG1 15A fuse	Switch the ignition ON (engine on or off) Switch the ignition OFF (LOCK)	B+ 1.0 or less	• C/U IG1 15A fuse • Related wiring harnesses
C	—	—	—	—	—
D	R position signal	Rear body control module (RBCM)	R position Other than R position	B+ 1.0 or less	• Rear body control module (RBCM) • Related wiring harnesses
E	—	—	—	—	—
F	GND	Body ground	Under any condition	1.0 or less	• Related wiring harnesses
G	—	—	—	—	—
H	—	—	—	—	—
I	—	—	—	—	—
J	Power supply	ROOM 15A fuse	Under any condition	B+	• ROOM 15A fuse • Related wiring harnesses

Without Garage Door Opener

Operational inspection

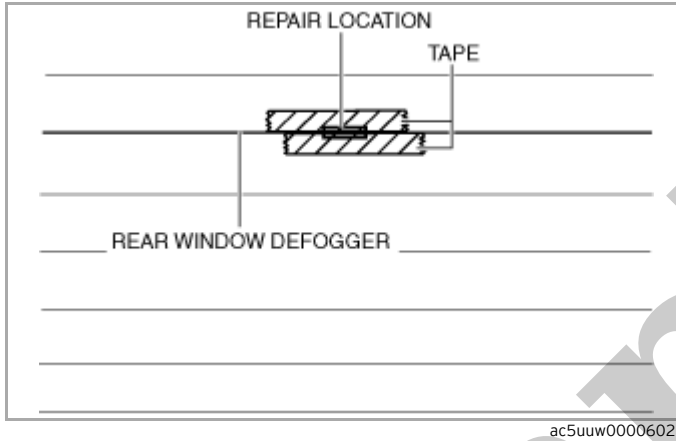
1. Switch the ignition ON (engine off or on).
2. Move the vehicle to a place with a showroom level of brightness.
3. Verify that the mirror surface brightens.

REAR WINDOW DEFOGGER REPAIR

SM2899308

id09120002060

- 1.Clean and degrease the area of the rear window defogger.
- 2.Affix tape along both sides of the rear window defogger to be repaired.



- 3.Apply commercially available silver paint using a fine-tipped tool such as a small brush or a drawing pen.
- 4.Peel off the tape being careful not to damage the painted area.

Caution

- Do not operate the rear window defogger until the repaired area is completely dried to prevent a malfunction.

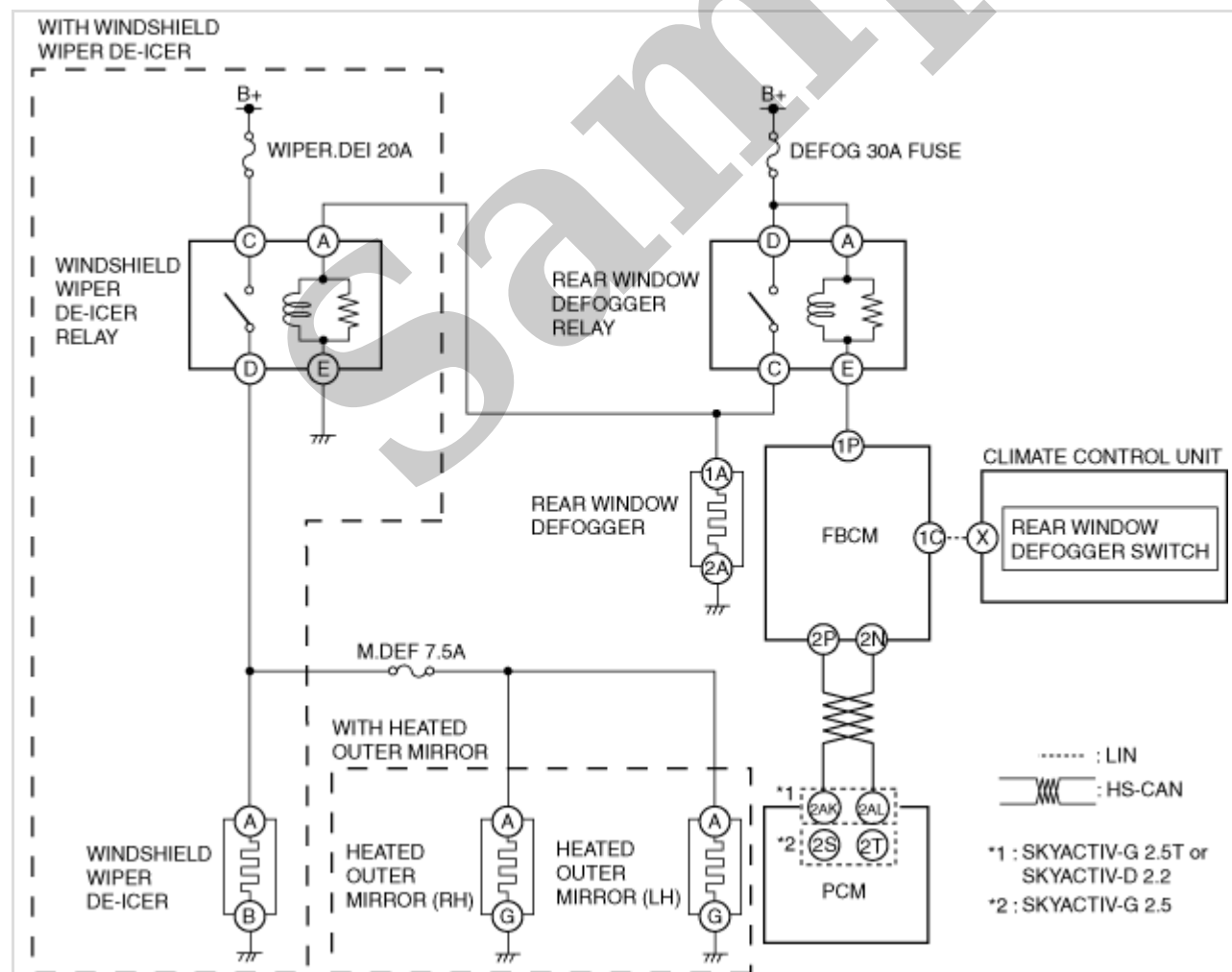
- 5.Follow the instructions for the commercially available silver paint and dry the repaired area.

Step	Inspection	Action
7	INSPECT REAR WINDOW DEFOGGER RELAY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT • Verify that the rear window defogger relay is removed. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Measure the voltage at rear window defogger relay terminals D and A (vehicle wiring harness side). • Is the voltage B+?	Yes Go to the next step.
		No Inspect the DEFOG 30 A fuse. • If the fuse is blown: — Refer to the wiring diagram and verify if there is a common connector between DEFOG 30 A fuse and rear window defogger relay terminals D and A. If there is a common connector: • Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location. • Repair or replace the malfunctioning location. If there is no common connector: • Repair or replace the wiring harness which is shorted to ground. • Replace the fuse. • If the fuse is damaged: — Replace the fuse. • If the fuse is normal: — Refer to the wiring diagram and verify if there is a common connector between positive battery terminal and rear window defogger relay terminals D and A. If there is a common connector: • Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. • Repair or replace the malfunctioning location. If there is no common connector: • Repair or replace the wiring harness which has an open circuit. Go to Step 15.

Step	Inspection		Action
14	INSPECT FBCM CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT • Switch the ignition ON (engine off or on). • Switch the rear window defogger ON. • Measure the voltage at FBCM terminal 1P (vehicle wiring harness side). • Is the voltage B+?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify if there is a common connector between FBCM terminal 1P and rear window defogger relay terminal E. If there is a common connector: • Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground or open circuit to determine the malfunctioning location. • Repair or replace the malfunctioning location. If there is no common connector: • Repair or replace the wiring harness which is shorted to ground or has an open circuit. After repair, go to the next step.
15	VERIFY IF MALFUNCTION IS RESOLVED • Does the rear window defogger system operate normally?	Yes	Explain the contents of the servicing to the customer.
		No	If the malfunction has not been resolved, repeat the inspection from Step 1.

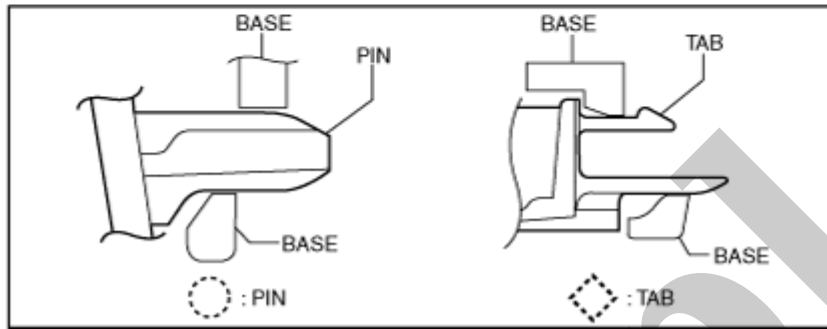
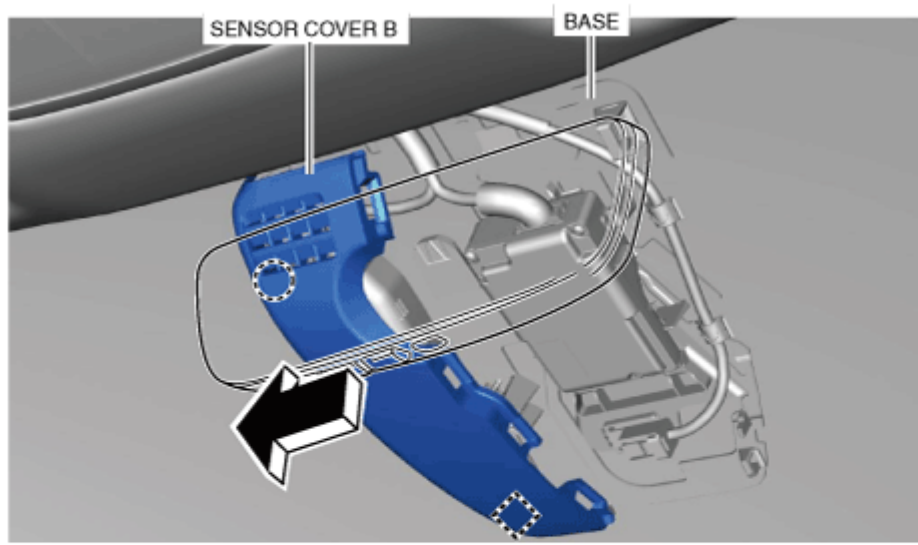
Manual Air Conditioner

System wiring diagram



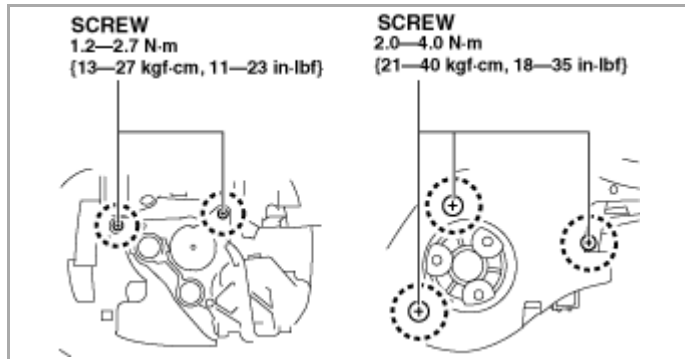
Step	Inspection	Action	
7	INSPECT WINDSHIELD WIPER DE-ICER RELAY • Switch the ignition OFF (LOCK). • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Remove the windshield wiper de-icer relay. (See RELAY LOCATION.) • Inspect the windshield wiper de-icer relay. (See RELAY INSPECTION.) • Is the windshield wiper de-icer relay normal?	Yes	Go to the next step.
		No	Replace the windshield wiper de-icer relay, then go to Step 13. (See RELAY LOCATION.)

Sample

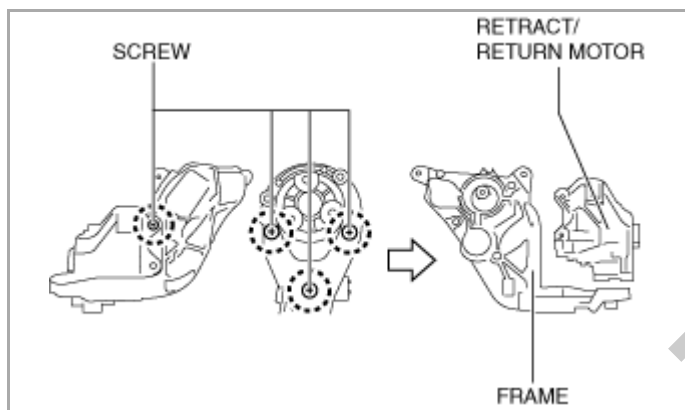


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3. Install in the reverse order of removal.



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ac5wzw00015425

11. Remove the retract/return motor. (See [Retract/Return Motor Installation Note](#))

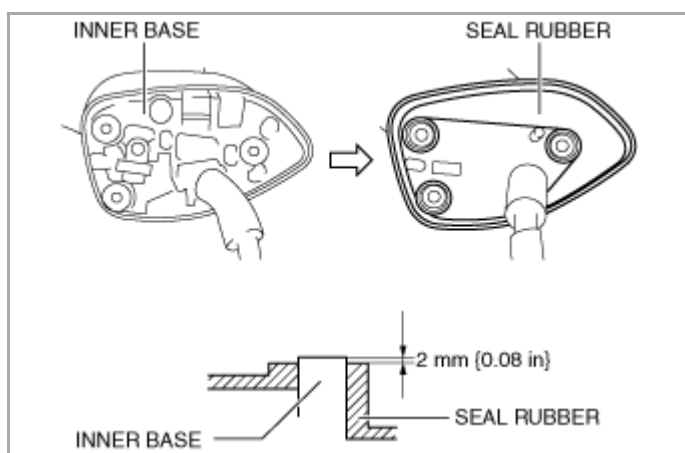
12. Install in the reverse order of removal.

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

Seal rubber installation note

1. Verify that the seal rubber is not curled or deformed.

2. Install the seal rubber to the inner base as shown in the figure.



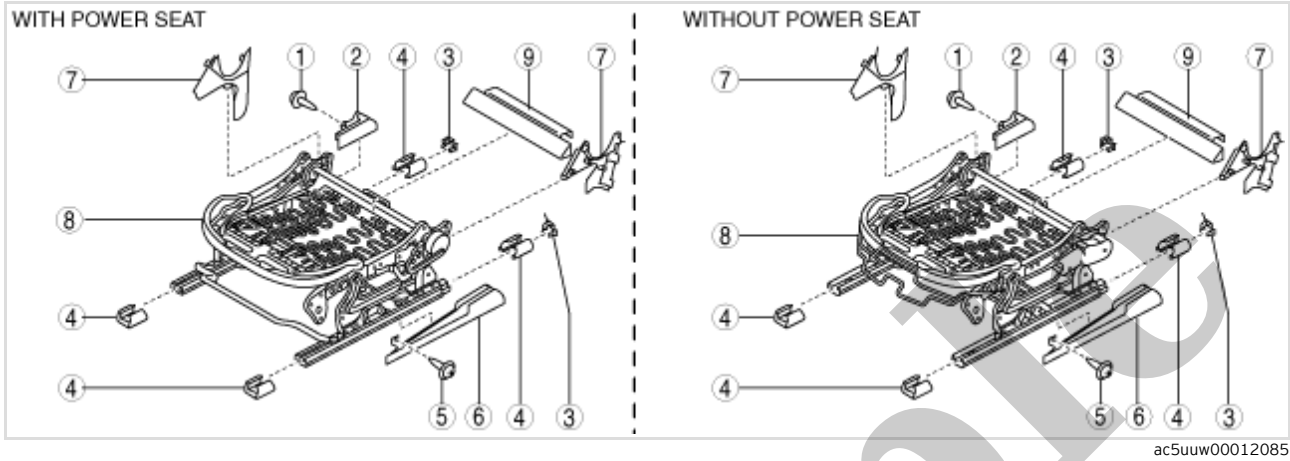
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FRONT SEAT CUSHION FRAME/ADJUSTER UNIT DISASSEMBLY/ASSEMBLY

SM2899348

id09130095540

1.Disassemble in the order indicated in the table.



1	Screw
2	Lower cover
3	Protector
4	Rail cover
5	Screw
6	Cushion frame cover
7	Reverse cover
8	Adjuster unit
9	Spacer (with spacer)

2.Assemble in the reverse order of disassembly.