

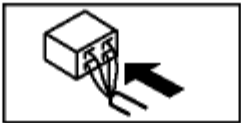
2012 - Mazda6 - Body and Accessories

SUNROOF MOTOR INSPECTION

1. Disconnect the negative battery cable.
2. Partially peel back the seaming welt.
3. Remove the rain sensor cover. (Vehicles with auto light/wiper system) (See [RAIN SENSOR REMOVAL/ INSTALLATION.](#))
4. Disconnect the rain sensor connector. (Vehicles auto light/wiper system)
5. Disconnect the auto-dimming mirror connector. (vehicles with auto-dimming mirror)
6. Remove the following parts:
 - a. Sunroof seaming welt
 - b. A-pillar trims (See [A-PILLAR TRIM REMOVAL/ INSTALLATION.](#))
 - c. Front scuff plate (See [FRONT SCUFF PLATE REMOVAL/ INSTALLATION.](#))
 - d. Rear scuff plate (See [REAR SCUFF PLATE REMOVAL/ INSTALLATION.](#))
 - e. B-pillar lower trims (See [B-PILLAR LOWER TRIM REMOVAL/ INSTALLATION.](#))
 - f. Upper anchor of the front seat belt (See [FRONT SEAT BELT REMOVAL/ INSTALLATION.](#))
 - g. B-pillar upper trims (See [B-PILLAR UPPER TRIM REMOVAL/ INSTALLATION.](#))
 - h. Rear seat cushion (See [REAR SEAT CUSHION REMOVAL/ INSTALLATION.](#))
 - i. Rear side seat back (See [REAR SIDE SEAT BACK REMOVAL/ INSTALLATION.](#))
 - j. C-pillar trims (See [C-PILLAR TRIM REMOVAL/ INSTALLATION.](#))
 - k. Sunvisors (See [SUNVISOR REMOVAL/ INSTALLATION.](#))
 - l. Map light (See [MAP LIGHT REMOVAL/ INSTALLATION.](#))
 - m. Assist handle (See [ASSIST HANDLE REMOVAL/ INSTALLATION.](#))
 - n. Headliner (See [HEADLINER REMOVAL/ INSTALLATION.](#))
 - o. Sunroof motor (See [SUNROOF MOTOR REMOVAL/ INSTALLATION.](#))
7. Measure the voltage at each terminal.
 - If not as specified, inspect the parts listed under "Inspection item" and the related wiring harnesses.
 - If the parts and wiring harnesses are normal but the system still does not work properly, replace the sunroof motor. (See [SUNROOF MOTOR REMOVAL/ INSTALLATION.](#))

Terminal Voltage Table (Reference)

SUNROOF MOTOR WIRING
HARNESS-SIDE CONNECTOR



Terminal	Signal	Connected to	Test condition	Voltage (V)	Inspection item
A	Slide open	Sunroof switch	Sunroof is fully opening.	B+	Sunroof switch
			Other	1.0 or less	
B	Slide close/tilt down	Sunroof switch	Sunroof is closing/tilting down.	B+	Sunroof switch
			Other	1.0 or less	
C	Tilt up	Sunroof switch	Sunroof is tilting up.	B+	Sunroof switch
			Other	1.0 or less	
E	IG2	A/C 10 A fuse	Switch the ignition ON.	B+	A/C 10 A fuse
			Other	1.0 or less	
F	Vehicle speed	Instrument cluster	Pulse signal	-	• Instrument cluster • Related wiring harnesses

G	GND	GND	Under any condition	1.0 or less	GND
H	Communication	BCM	Because this terminal is for communication, good/no good judgment by terminal voltage is not possible.	-	• BCM • Related wiring harnesses
J	Power supply	SUN ROOF 15 A fuse	Under any condition	B+	SUN ROOF 15 A fuse

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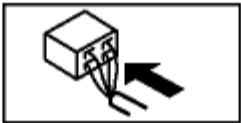
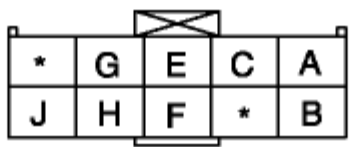
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