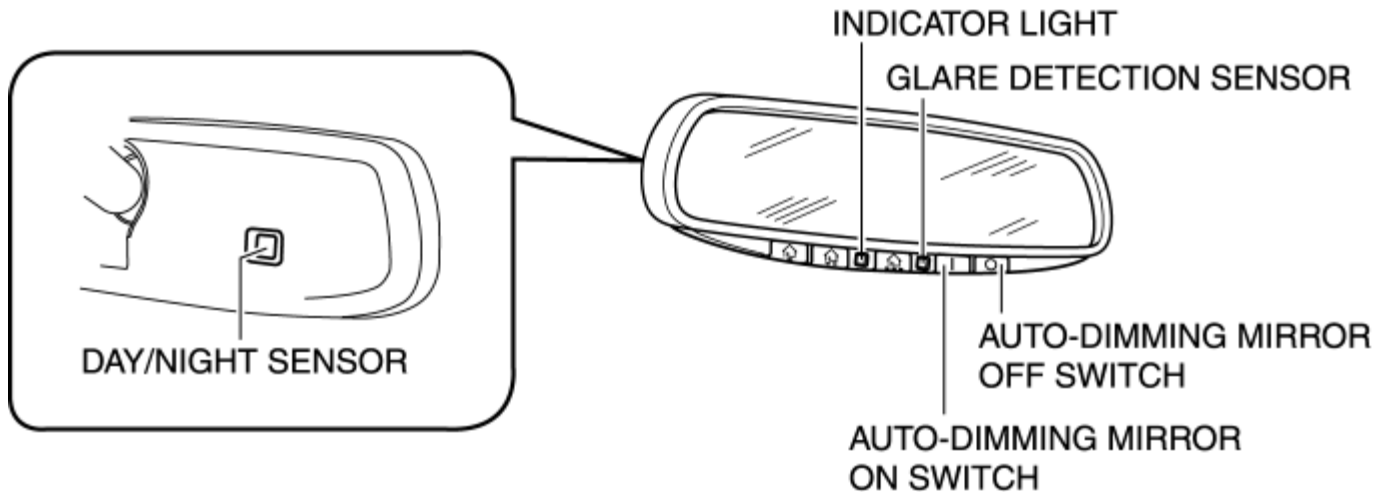


2012 - Mazda6 - Body and Accessories

AUTO-DIMMING MIRROR INSPECTION

Operational Inspection

1. Switch the ignition ON.
2. Move the vehicle to a place with a showroom level of brightness.
3. Verify that the indicator light is illuminated.



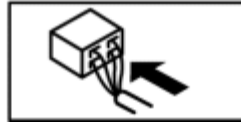
4. Verify that the indicator light switches when the auto-dimming mirror on/off switch is pressed.
 5. While the indicator light is illuminated, verify that the mirror surface brightens.
 6. Cover the day/night sensor with a hand and verify that the mirror surface darkens when light is shone on the glare detection sensor.
 7. Remove your hand covering the day/night sensor and verify that the mirror surface brightens.
- If the auto-dimming mirror does not operate, inspect the terminal voltage. (See [Terminal Voltage Table \(Reference\)](#).)

Terminal Voltage Table (Reference)

1. Measure the voltage at each terminal.
 - If the voltage is not as specified in the Terminal Voltage Table (Reference), inspect the parts under "Inspection item (s)" and related wiring harnesses.
2. If the system does not work properly even though the inspection items or related wiring harnesses do not have any malfunction, replace the auto-dimming mirror. (See [AUTO-DIMMING](#))

MIRROR REMOVAL.) (See [AUTO-DIMMING MIRROR INSTALLATION.](#))

AUTO-DIMMING MIRROR HARNESS-SIDE CONNECTOR



Terminal	Signal name	Connected to	Measured condition		Voltage (V)/Continuity	Inspection item(s)
B	Power supply (IG1)	BCM	Switch the ignition to ON		B+	• BCM • Related wiring harnesses
			Switch the ignition to OFF		1.0 or less	
D	R range signal	Back-up light switch/TR switch	Switch the ignition to ON	R range	B+	• Back-up light switch/TR switch • Related wiring harnesses
				Other than R range	1.0 or less	
F	GND	Body ground	Under any condition		1.0 or less	• GND • Related wiring harnesses
G	Power output	Power outer mirror (LH)	Auto-dimming mirror operation		0.4—1.2	• BCM • Related wiring harnesses
			Other		1.0 or less	
H	GND	Power outer mirror (LH)	Under any condition		1.0 or less	• Power outer mirror (LH) • Related wiring

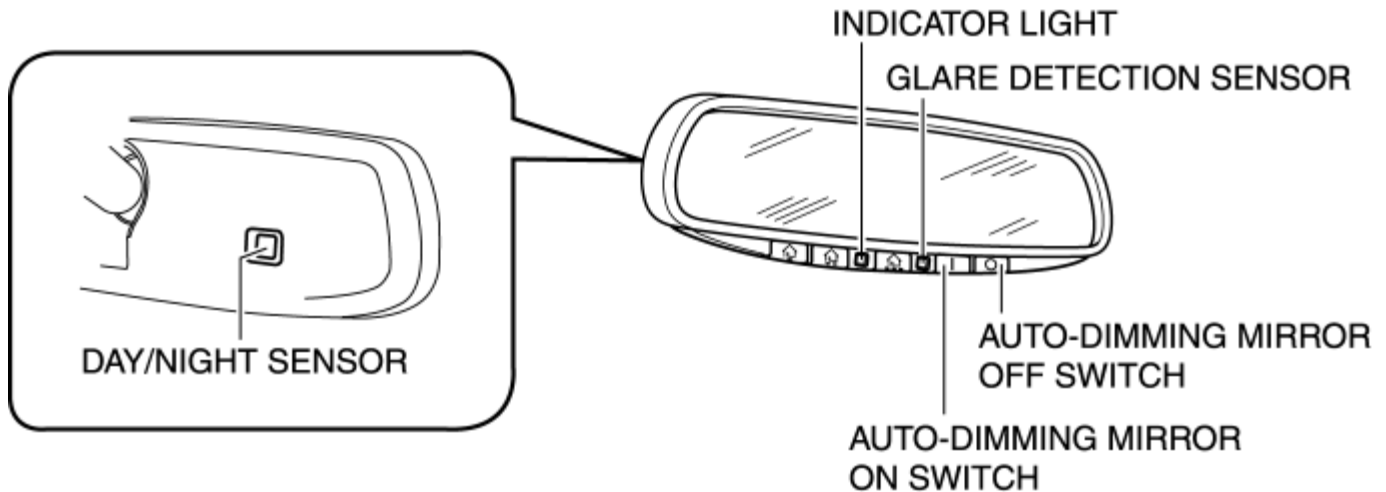
					harnesses
J	Main power supply	BCM	Under any condition	B+	• BCM • Related wiring harnesses

2012 - Mazda6 - Body and Accessories

AUTO-DIMMING MIRROR INSPECTION

Operational Inspection

1. Switch the ignition ON.
2. Move the vehicle to a place with a showroom level of brightness.
3. Verify that the indicator light is illuminated.



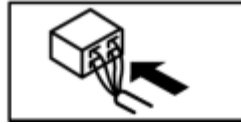
4. Verify that the indicator light switches when the auto-dimming mirror on/off switch is pressed.
 5. While the indicator light is illuminated, verify that the mirror surface brightens.
 6. Cover the day/night sensor with a hand and verify that the mirror surface darkens when light is shone on the glare detection sensor.
 7. Remove your hand covering the day/night sensor and verify that the mirror surface brightens.
- If the auto-dimming mirror does not operate, inspect the terminal voltage. (See [Terminal Voltage Table \(Reference\)](#).)

Terminal Voltage Table (Reference)

1. Measure the voltage at each terminal.
 - If the voltage is not as specified in the Terminal Voltage Table (Reference), inspect the parts under "Inspection item (s)" and related wiring harnesses.
2. If the system does not work properly even though the inspection items or related wiring harnesses do not have any malfunction, replace the auto-dimming mirror. (See [AUTO-DIMMING](#))

MIRROR REMOVAL.) (See [AUTO-DIMMING MIRROR INSTALLATION.](#))

AUTO-DIMMING MIRROR HARNESS-SIDE CONNECTOR



Terminal	Signal name	Connected to	Measured condition		Voltage (V)/Continuity	Inspection item(s)
B	Power supply (IG1)	BCM	Switch the ignition to ON		B+	• BCM • Related wiring harnesses
			Switch the ignition to OFF		1.0 or less	
D	R range signal	Back-up light switch/TR switch	Switch the ignition to ON	R range	B+	• Back-up light switch/TR switch • Related wiring harnesses
				Other than R range	1.0 or less	
F	GND	Body ground	Under any condition		1.0 or less	• GND • Related wiring harnesses
G	Power output	Power outer mirror (LH)	Auto-dimming mirror operation		0.4—1.2	• BCM • Related wiring harnesses
			Other		1.0 or less	
H	GND	Power outer mirror (LH)	Under any condition		1.0 or less	• Power outer mirror (LH) • Related wiring

					harnesses
J	Main power supply	BCM	Under any condition	B+	• BCM • Related wiring harnesses