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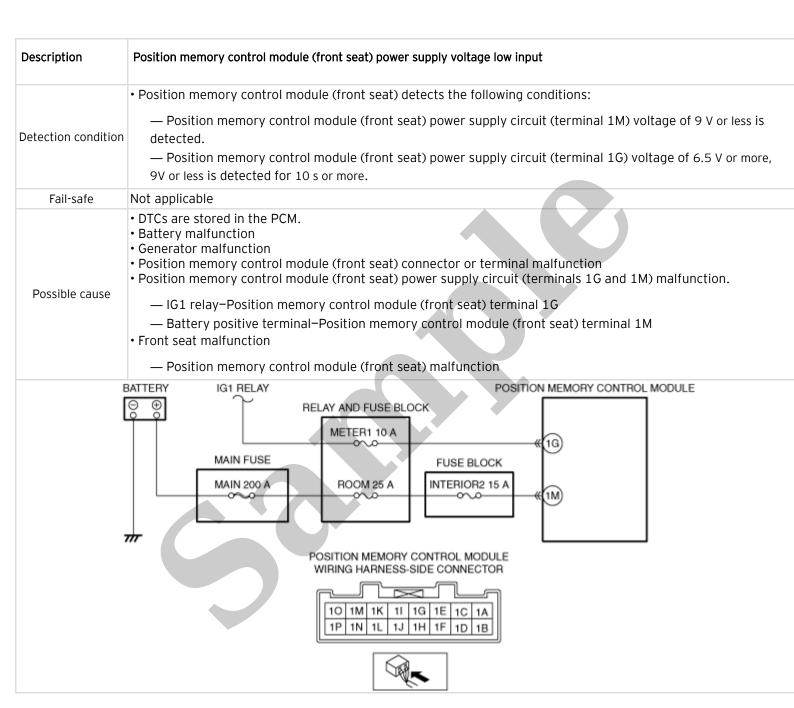
2016 MAZDA 5 / Premacy OEM Service and Repair Workshop Manual

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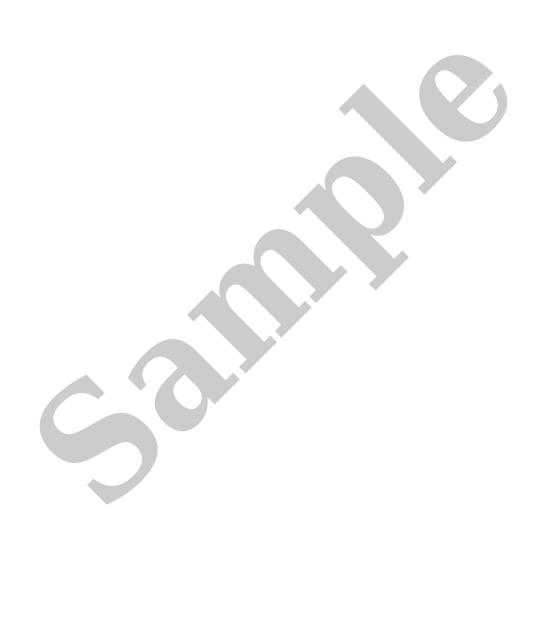
DTC U3003:16 [POSITION MEMORY CONTROL MODULE]

SM2898906

id0902o796960



Step	Inspection	Action
7 VERIFY IF OTHER DTCs DISPLAYED • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [POSITION MEMORY CONTROL MODULE].)
		No



Step	Inspection		Action
3	INSPECT LIFT MOTOR AND POSITION SENSOR CIRCUIT FOR SHORT TO GROUND • Verify that the lift motor and position sensor and position memory control module (front seat) connectors are disconnected. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Lift motor and position sensor terminal A — Lift motor and position sensor terminal B — Lift motor and position sensor terminal C — Lift motor and position sensor terminal D • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Position memory control module (front seat) terminal 3E-Lift motor and position sensor termina A • Position memory control module (front seat) terminal 3F-Lift motor and position sensor termina B • Position memory control module (front seat) terminal 3M-Lift motor and position sensor terminal C • Position memory control module (front seat) terminal 3N-Lift motor and position sensor terminal D If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Go to Step 9. Go to the next step.
4	INSPECT LIFT MOTOR AND POSITION SENSOR CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the lift motor and position sensor and position memory control module (front seat) connectors are disconnected. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Switch the ignition ON (engine off or on). • Measure the voltage at the following terminals (wiring harness-side): — Lift motor and position sensor terminal A — Lift motor and position sensor terminal B — Lift motor and position sensor terminal C — Lift motor and position sensor terminal D • Is the voltage 0 V?	Yes	Go to the next step. Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Position memory control module (front seat) terminal 3E-Lift motor and position sensor termina A • Position memory control module (front seat) terminal 3F-Lift motor and position sensor termina B • Position memory control module (front seat) terminal 3M-Lift motor and position sensor terminal C • Position memory control module (front seat) terminal 3N-Lift motor and position sensor terminal D If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to power supply • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to power supply. Go to Step 9.

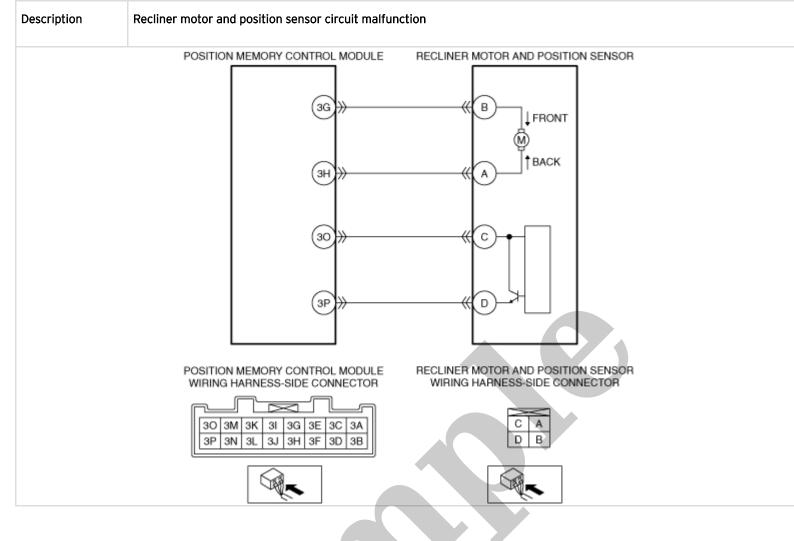
DTC B1B89:13 [POSITION MEMORY CONTROL MODULE]

SM2898908

id0902o799860

Description	Slide motor and position sensor circuit malfunction
	• Position memory control module (front seat) detects the following conditions during the slide motor operation control:
	 Detects 4 times that current flowing to the slide motor is less than 1 A. Detects for 0.2 s that there is no change in the slide sensor pulse.
Detection condition	 Position memory control module (front seat) detects any of the following conditions during the slide motor not operation control:
	 Detects 4 times that current flowing to the slide motor exceeds 10 A. Detects 4 times that current flowing to the slide motor exceeds 1 A and a change in the slide sensor pulse 5 times within 1 s.
	• Position memory control module (front seat) detects for 5 s that there is no change in the slide sensor pulse during the slide motor operation control.
	• Memory clearing:
	 — If there is a malfunction in the slide position sensor, clear all the memory positions. • Memory seat positioning using position memory switch and remote transmitter:
Fail-safe	 — If there is a malfunction in the slide position sensor, inhibits all memory seat positioning. — If there is a malfunction in the slide motor, inhibits slide motor seat positioning. • Slide motor seat positioning using power seat switch:
	 — If there is a malfunction in the slide motor, inhibits slide motor seat positioning. • Memory registration using position memory switch and remote transmitter:
	 If there is a malfunction in the slide position sensor, inhibits the memory registration. If there is a malfunction in the slide motor and the malfunction is caused by short circuit, inhibits the memory registration.
	 Slide motor and position sensor connector or terminal malfunction Position memory control module (front seat) connector or terminal malfunction Short to ground in wiring harness between the following terminals:
	 — Position memory control module (front seat) terminal 3A-Slide motor and position sensor terminal D — Position memory control module (front seat) terminal 3B-Slide motor and position sensor terminal B — Position memory control module (front seat) terminal 3I-Slide motor and position sensor terminal F — Position memory control module (front seat) terminal 3J-Slide motor and position sensor terminal H • Short to power supply in wiring harness between the following terminals:
Possible cause	 — Position memory control module (front seat) terminal 3A-Slide motor and position sensor terminal D — Position memory control module (front seat) terminal 3B-Slide motor and position sensor terminal B — Position memory control module (front seat) terminal 3I-Slide motor and position sensor terminal F — Position memory control module (front seat) terminal 3J-Slide motor and position sensor terminal H Open circuit in wiring harness between the following terminals:
	 — Position memory control module (front seat) terminal 3A-Slide motor and position sensor terminal D — Position memory control module (front seat) terminal 3B-Slide motor and position sensor terminal B — Position memory control module (front seat) terminal 3I-Slide motor and position sensor terminal F — Position memory control module (front seat) terminal 3J-Slide motor and position sensor terminal H • Front seat malfunction
	— Slide motor and position sensor malfunction • Position memory control module (front seat) malfunction

Step	Inspection		Action
	INSPECT SLIDE MOTOR AND POSITION	Yes	Go to the next step.
5	SENSOR CIRCUIT FOR OPEN CIRCUIT Switch the ignition off. Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) Verify that the slide motor and position sensor and position memory control module (front seat) connectors are disconnected. Inspect for continuity between the following terminals (wiring harness-side): — Position memory control module (front seat) terminal 3A—Slide motor and position sensor terminal D — Position memory control module (front seat) terminal 3B—Slide motor and position sensor terminal B — Position memory control module (front seat) terminal 3I—Slide motor and position sensor terminal F — Position memory control module (front seat) terminal 3J—Slide motor and position sensor terminal H Is there continuity?	No	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Position memory control module (front seat) terminal 3A–Slide motor and position sensor terminal D • Position memory control module (front seat) terminal 3B–Slide motor and position sensor terminal B • Position memory control module (front seat) terminal 3I–Slide motor and position sensor terminal F • Position memory control module (front seat) terminal 3J–Slide motor and position sensor terminal H If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has an open circuit. Go to Step 9.
	INSPECT SLIDE MOTOR • Inspect the slide motor. (See SLIDE MOTOR INSPECTION.) • Is the slide motor normal?	Yes	Go to the next step.
6		No	Replace the front seat, then go to Step 9. (See FRONT SEAT REMOVAL/INSTALLATION.)
	INSPECT POSITION MEMORY CONTROL MODULE (FRONT SEAT)	Yes	Go to the next step.
7	 Inspect the position memory control module (front seat). (See POSITION MEMORY CONTROL MODULE INSPECTION.) Is the position memory control module (front seat) normal? 	No	Replace the position memory control module (front seat), then go to Step 9. (See POSITION MEMORY CONTROL MODULE REMOVAL/INSTALLATION.)
8	VERIFY IF MALFUNCTIONING LOCATION IS SLIDE POSITION SENSOR DEPENDING ON REPEATABILITY • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the position memory control module (front seat) using the M- MDS. (See CLEARING DTC [POSITION MEMORY CONTROL MODULE].)	Yes	Replace the front seat, then go to the next step. (See FRONT SEAT REMOVAL/INSTALLATION.)
	 Operate the position memory switch to operate the seat position memory system. Retrieve the position memory control module (front seat) DTCs using the M-MDS. (See DTC INSPECTION [POSITION MEMORY CONTROL MODULE].) Is the same DTC displayed? 	No	Go to Step 10.



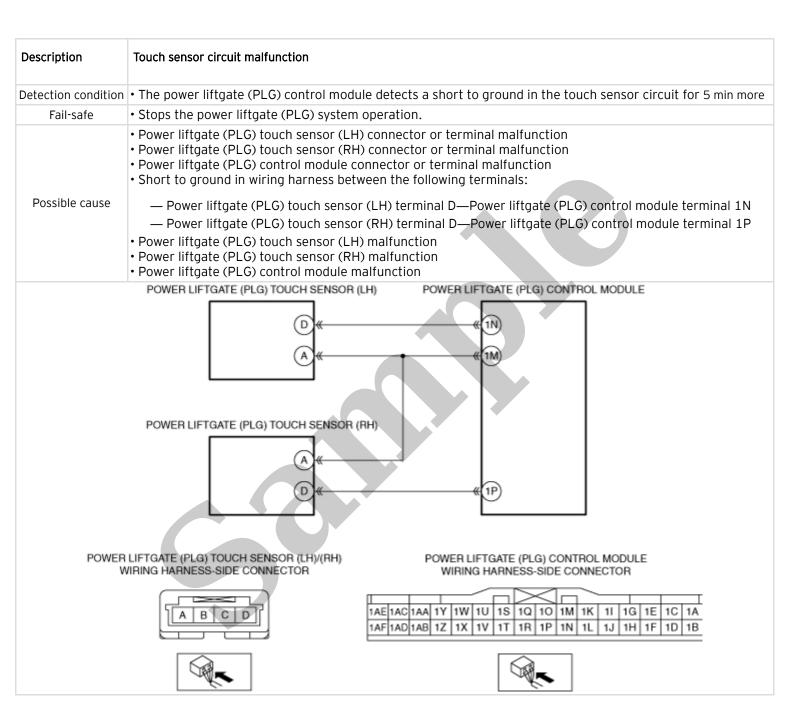
Step	Inspection	Inspection	
1	INSPECT RECLINER MOTOR AND POSITION SENSOR CONNECTOR • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)	Yes	Go to the next step.
1	 Disconnect the recliner motor and position sensor connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is the connector normal? 	No	Repair or replace the connector, then go to Step 9.
2	INSPECT POSITION MEMORY CONTROL MODULE (FRONT SEAT) CONNECTOR • Disconnect the position memory control module (front seat) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
2		No	Repair or replace the connector, then go to Step 9.

Step	Inspection		Action
8	VERIFY IF MALFUNCTIONING LOCATION IS RECLINER POSITION SENSOR DEPENDING ON REPEATABILITY • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the position memory control module (front seat) using the M- MDS. (See CLEARING DTC [POSITION MEMORY CONTROL MODULE].) • Operate the position memory switch to operate the seat position memory system. • Retrieve the position memory control module (front seat) DTCs using the M- MDS. (See DTC INSPECTION [POSITION MEMORY CONTROL MODULE].) • Is the same DTC displayed?	Yes	Replace the front seat, then go to the next step. (See FRONT SEAT REMOVAL/INSTALLATION.)
		No	Go to Step 10.
9	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the position memory control module (front seat) using the M-MDS. (See CLEARING DTC [POSITION MEMORY CONTROL MODULE].) • Operate the position memory switch to operate the seat position memory system. • Retrieve the position memory control module (front seat) DTCs using the M-MDS. (See DTC INSPECTION INCOSITION)	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the position memory control module (front seat). (See POSITION MEMORY CONTROL MODULE REMOVAL/INSTALLATION.) Go to the next step.
	MDS. (See DTC INSPECTION [POSITION MEMORY CONTROL MODULE].) • Is the same DTC displayed?	No	Go to the next step.
10	VERIFY IF OTHER DTCs DISPLAYED • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [POSITION MEMORY CONTROL MODULE].)
		No	DTC troubleshooting completed.

DTC B1308:11 [POWER LIFTGATE (PLG) CONTROL MODULE]

SM2898914

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DTC B126A:62 [POWER LIFTGATE (PLG) CONTROL MODULE]

SM2898912

id0902o804720

