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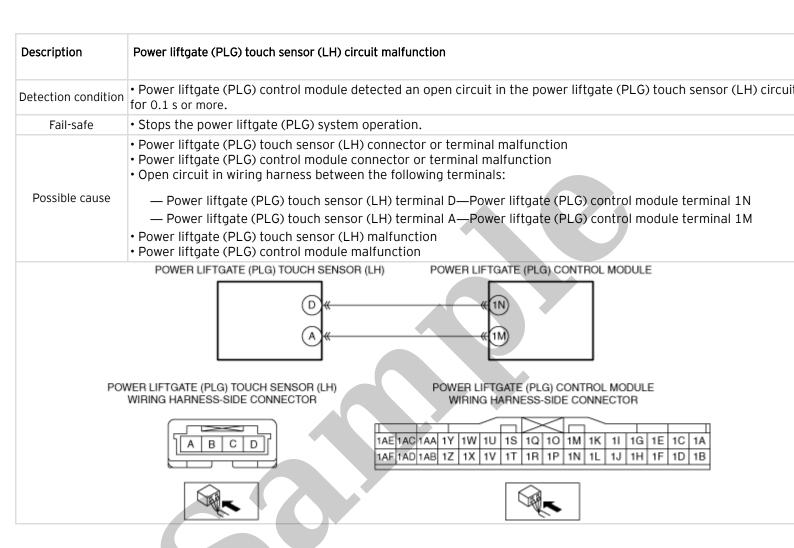
2016 MAZDA 6 / Atenza Wagon OEM Service and Repair Workshop Manual

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DTC B1454:13 [POWER LIFTGATE (PLG) CONTROL MODULE]

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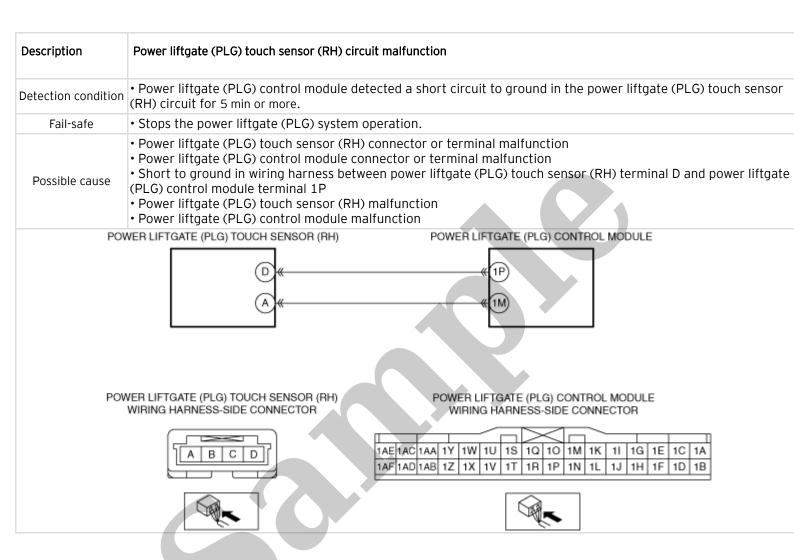
Diagnostic Procedure

STEP	INSPECTION		ACTION	
SENSOR (LH) CONNECTOR CON • Switch the ignition off. • Disconnect the negative batte terminal. (See NEGATIVE BATTITERMINAL DISCONNECTION/CONNECTION • Disconnect the power liftgate touch sensor (LH) connector. • Inspect the connector engage connection condition and inspect	• Disconnect the negative battery terminal. (See NEGATIVE BATTERY	Yes	Go to the next step.	
	• Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.	No	Repair or replace the connector, then go to Step 5.	

DTC B1455:23 [POWER LIFTGATE (PLG) CONTROL MODULE]

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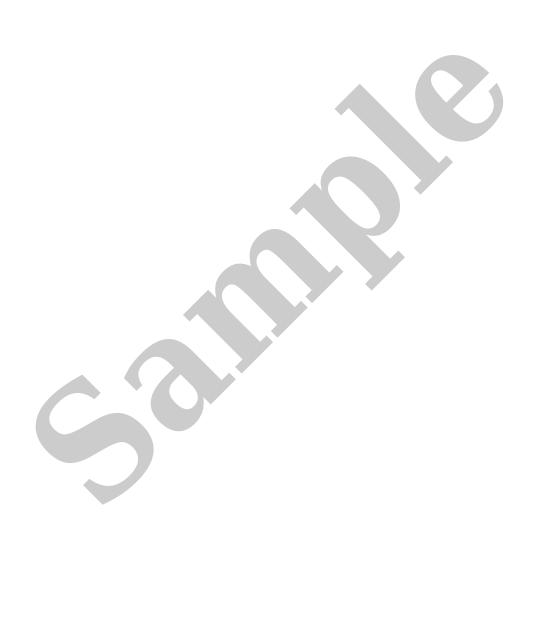
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Diagnostic Procedure

STEP	INSPECTION		ACTION	
4	INSPECT POWER LIFTGATE (PLG) TOUCH SENSOR (RH) CONNECTOR CONDITION • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Disconnect the power liftgate (PLG) touch sensor (RH) 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.	
		No	Repair or replace the connector, then go to Step 5.	

STEP	INSPECTION		ACTION	
2	INSPECT POWER LIFTGATE (PLG) CONTROL MODULE CONNECTOR CONDITION • Disconnect the power liftgate (PLG) control module 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 5.	
3	INSPECT TOUCH SENSOR CIRCUIT FOR SHORT TO GROUND • Verify that the power liftgate (PLG) touch sensor (LH) and power liftgate (PLG) control module connectors are disconnected. • Inspect for continuity between power liftgate (PLG) touch sensor (LH) terminal D (wiring harness-side) and body ground. • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between power liftgate (PLG) touch sensor (LH) terminal D and power liftgate (PLG) control module terminal 1N. 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 5.	
		No	Go to the next step.	
	INSPECT POWER LIFTGATE (PLG) TOUCH SENSOR (LH) • Measure the voltage at the following terminals (wiring harness-side):	Yes	Go to the next step.	
4	— Power liftgate (PLG) control module terminal 1N — Power liftgate (PLG) control module terminal 1M • Is the voltage normal? (See POWER LIFTGATE (PLG) CONTROL MODULE INSPECTION.)	No	Replace the power liftgate (PLG) touch sensor (LH), then go to the next step. (See POWER LIFTGATE (PLG) TOUCH SENSOR REMOVAL/INSTALLATION.)	
5	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 power liftgate (PLG) control module using the M-MDS. (See CLEARING DTC [POWER LIFTGATE (PLG) CONTROL MODULE].) Switch the ignition off and wait for 5 min or more. Retrieve the power liftgate (PLG) control module DTCs using the M-MDS.	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the power liftgate (PLG) control module. (See POWER LIFTGATE (PLG) CONTROL MODULE REMOVAL/INSTALLATION.) Go to the next step.	
	(See DTC INSPECTION [POWER LIFTGATE (PLG) CONTROL MODULE].) • Is the same DTC displayed?	No	Go to the next step.	
6	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 [POWER LIFTGATE (PLG) CONTROL MODULE].)	
		No	DTC troubleshooting completed.	



DTC U3003:16 [POWER LIFTGATE (PLG) CONTROL MODULE]

SM2898935

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Description	Power liftgate (PLG) control module power supply voltage low input
Detection condition	• Power liftgate (PLG) control module detects that the power supply circuit voltage that is less than the specification.
Fail-safe	• Stops the power liftgate (PLG) system operation.
	 DTCs are stored in the PCM DTCs are stored in the rear body control module (RBCM) Battery malfunction Generator malfunction Power liftgate (PLG) control module connector or terminal malfunction Power liftgate (PLG) control module power supply circuit malfunction
	— Short to ground in the wiring harness between the following terminals:
Possible cause	 C/U IG1 15 A fuse—Power liftgate (PLG) control module terminal 1AD MAIN 200 A fuse—Power liftgate (PLG) control module terminal 2I C/U IG1 15 A fuse malfunction PLG 20 A fuse malfunction CABIN.+B 50 A fuse malfunction Open circuit in wiring harness between the following terminals:
	 IG1 relay—Power liftgate (PLG) control module terminal 1AD Battery positive terminal—Power liftgate (PLG) control module terminal 2I Rear body control module (RBCM) connector or terminal malfunction Short to ground in the wiring harness between rear body control module (RBCM) terminal 4F and power liftgate (PLG) control module terminal 1AA Open circuit in wiring harness between rear body control module (RBCM) terminal 4F and power liftgate (PLG) control module terminal 1AA Power liftgate (PLG) control module malfunction

Step	Inspection
6	VERIFY POWER LIFTGATE (PLG) CONTROL MODULE POWER SUPPLY VOLTAGE • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Measure the voltage at the following terminals (wiring harness-side):
	— Power liftgate (PLG) control module terminal 1AD — Power liftgate (PLG) control module terminal 2I • Is the voltage B+?



Action

Go to the next step.

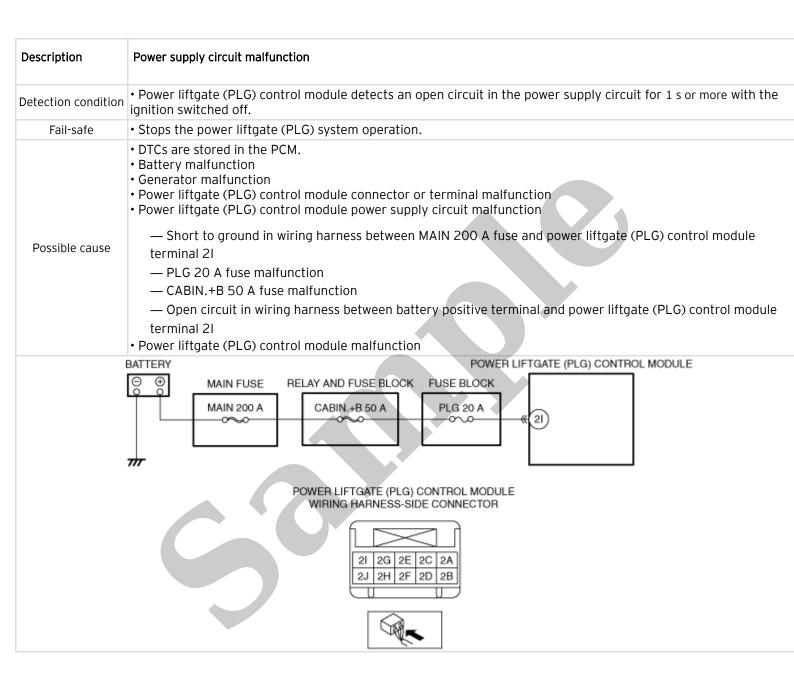
Yes

Step	Inspection	Action	
		Yes	Go to the next step.
9	INSPECT POWER LIFTGATE (PLG) CONTROL MODULE POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT • Verify that the rear body control module (RBCM) terminal and power liftgate (PLG) control module connectors are disconnected. • Inspect for continuity between rear body control module (RBCM) terminal 4F (wiring harness-side) and power liftgate (PLG) control module terminal 1AA (wiring harness-side). • Is there continuity?	No	Refer to the wiring diagram and verify whether or not there is a common connector between rear body control module (RBCM) terminal 4F and powe liftgate (PLG) control module terminal 1AA. 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 the next step.
10	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 power liftgate (PLG) control module using the M-MDS. (See CLEARING DTC [POWER LIFTGATE (PLG) CONTROL MODULE].) • Retrieve the power liftgate (PLG) control module DTCs using the M-MDS. (See DTC INSPECTION [POWER LIFTGATE (PLG) CONTROL MODULE].)	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the power liftgate (PLG) control module. (See POWER LIFTGATE (PLG) CONTROL MODULE REMOVAL/INSTALLATION.) Go to the next step.
	• Is the same DTC displayed?	No	Go to the next step.
11	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 [POWER LIFTGATE (PLG) CONTROL MODULE].)
		No	DTC troubleshooting completed.

DTC U3006:13 [POWER LIFTGATE (PLG) CONTROL MODULE]

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Diagnostic Procedure

STEP	INSPECTION		ACTION
		No	Inspect the PLG 20 A fuse and TAIL 20 A fuse. Any fuse is blown: — Refer to the wiring diagram and verify whether or not there is a common connector between MAIN 200 A fuse and power liftgate (PLG) control module terminal 2I. 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. • Replace the fuse. • Any fuse is damaged: — Replace the fuse. • All fuses are normal: — Refer to the wiring diagram and verify whether or not there is a common connector between battery positive terminal and power liftgate (PLG) control module terminal 21. If there is a common connector between battery positive terminal and power liftgate (PLG) control module terminal 21. If there is a 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.