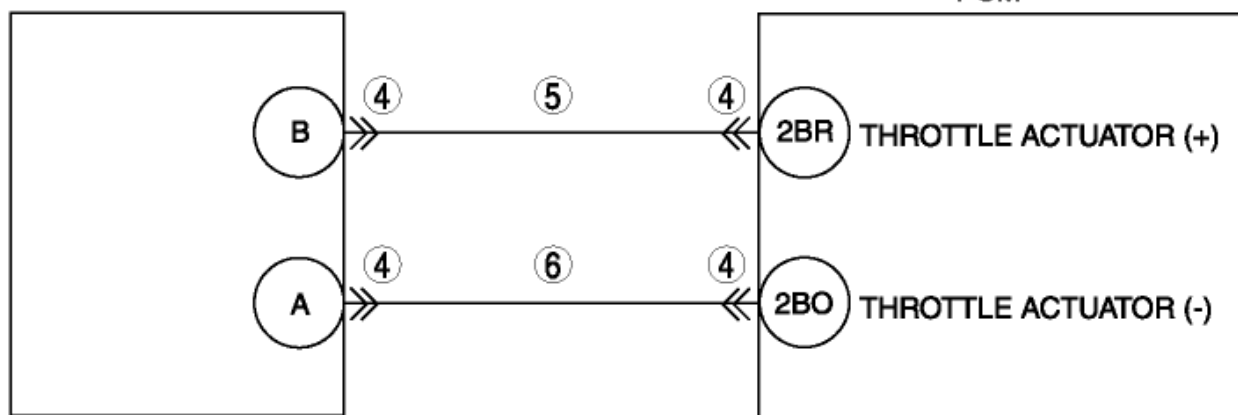


2012 - Mazda6 - Engine

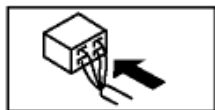
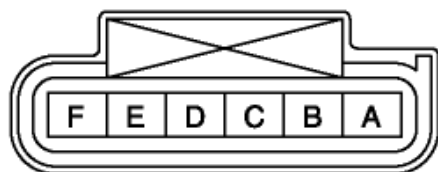
DTC P2101:00 [MZI 3.7 V6]

DTC P2101:00	Throttle actuator circuit range/performance
DETECTION CONDI TION	• A PCM malfunction flag is set indicating the motor circuit is open, and may require cycling the key.
POSSI BLE CAUSE	• Throttle body connector or terminal malfunction • PCM connector or terminal malfunction • Throttle actuator circuit are cross-wired • PCM malfunction

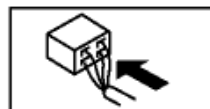
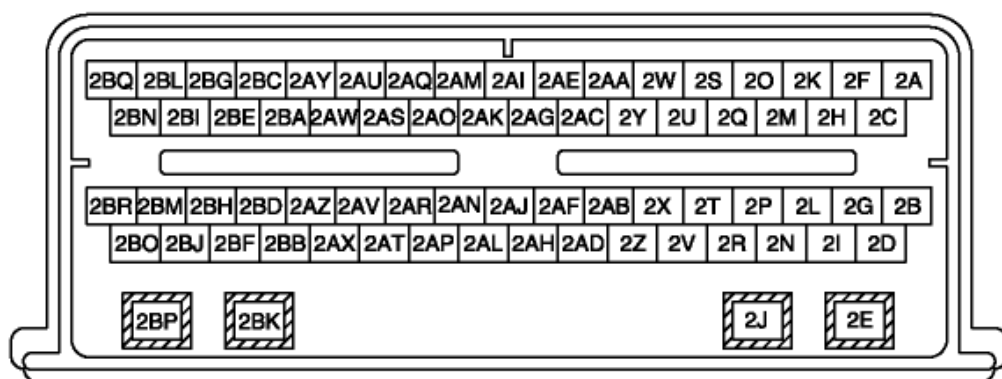
THROTTLE ACTUATOR (THROTTLE BODY)



THROTTLE BODY WIRING HARNESS-SIDE CONNECTOR



PCM WIRING HARNESS-SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY - Verify related Service Bulletins and/or on-line repair information availability. - Is any related Service Bulletins available?	Yes Perform repair or diagnosis according to the available Service Bulletins. If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	VERIFY RELATED PENDING CODE OR STORED	Yes Go to the appropriate DTC troubleshooting.

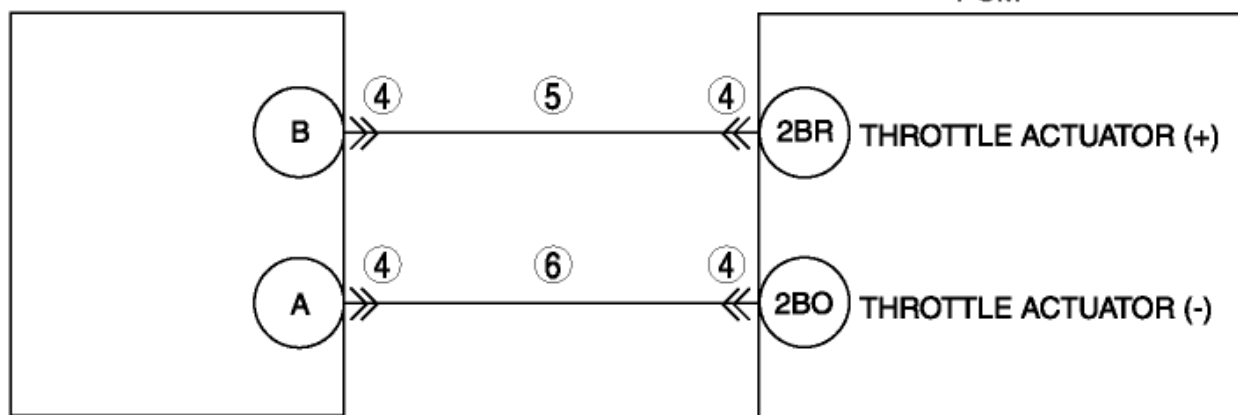
	DTCs FOR ALL OF VEHICLE MODULE - Switch the ignition off then to the ON position (Engine off). - Verify related pending code or stored DTCs. - Is other DTCs present?	(See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step.
4	INSPECT THROTTLE BODY AND PCM CONNECTOR FOR POOR CONNECTION - Switch the ignition off. - Disconnect the throttle body and PCM connector. - Inspect for poor connection (such as damaged/pulled-out pins, corrosion). - Are there any malfunction?	Yes Repair or replace suspected part, then go to Step 7. No Go to the next step.
5	INSPECT FOR PROPER TACM+ WIRING IN WIRING HARNESS CONNECTOR - Throttle body and PCM connectors are disconnected. - Measure the resistance between throttle body terminal B and PCM terminal 2BR. - Is the resistance less than 5 ohms?	Yes Go to the next step. No Repair TACM+ circuit for an open circuit, then go to Step 7.
6	INSPECT FOR PROPER TACM- WIRING IN HARNESS CONNECTOR - Throttle body and PCM connectors are disconnected. - Measure the resistance between throttle body terminal A and PCM terminal 2BO. - Is the resistance less than 5 ohms?	Yes Go to the next step. No Repair TACM- circuit for an open circuit, then go to the next step.
7	VERIFY TROUBLESHOOTING OF DTC P2101:00 HAS BEEN COMPLETED - Verify that all disconnected connectors reconnected. - Start the engine. - Clear DTC from PCM memory using M-MDS. - Perform the KOEO or KOER self-test. (See KOEO/ KOER SELF TEST [MZI 3.7 V6] .) - Is same DTC present?	Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the PCM. (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .) Go to the next step. No Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE - Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .) No Troubleshooting completed.

2012 - Mazda6 - Engine

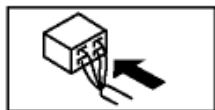
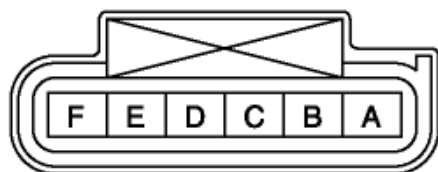
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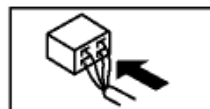
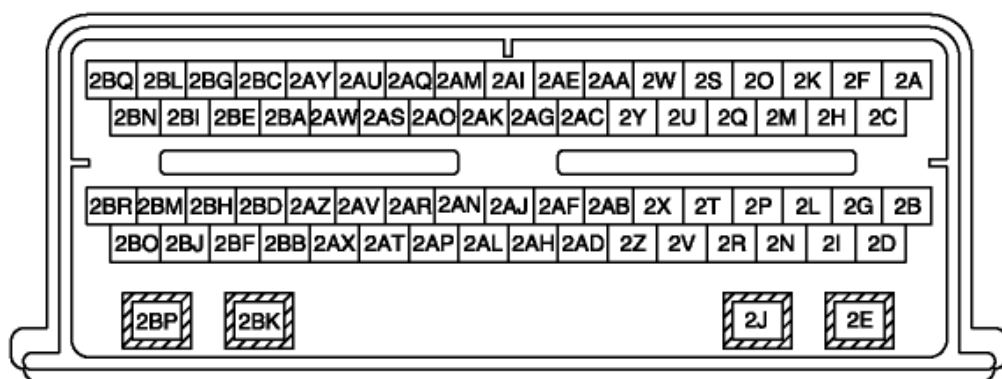
THROTTLE ACTUATOR (THROTTLE BODY)



THROTTLE BODY WIRING HARNESS-SIDE CONNECTOR



PCM WIRING HARNESS-SIDE CONNECTOR



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY - Verify related Service Bulletins and/or on-line repair information availability. - Is any related Service Bulletins available?	Yes Perform repair or diagnosis according to the available Service Bulletins. If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	VERIFY RELATED PENDING CODE OR STORED	Yes Go to the appropriate DTC troubleshooting.

	DTCs FOR ALL OF VEHICLE MODULE - Switch the ignition off then to the ON position (Engine off). - Verify related pending code or stored DTCs. - Is other DTCs present?	(See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step.
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