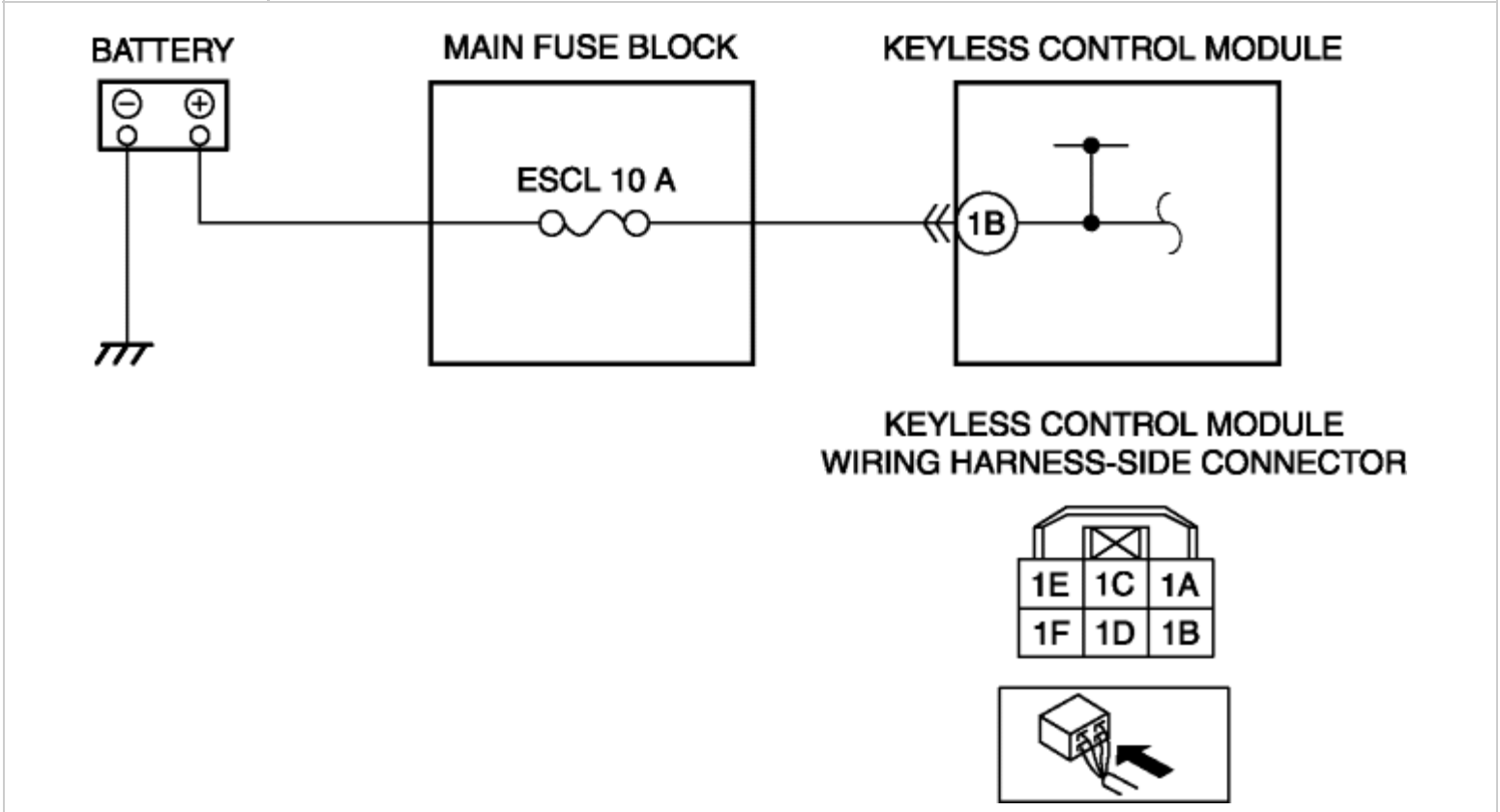


2012 - Mazda6 - Body and Accessories

DTC P0560:16, P0560:17 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	P0560:16	Battery power supply circuit (+B3) voltage less than 9 V is detected for 10 s
	P0560:17	Battery power supply circuit (+B3) voltage higher than 16 V is detected for 0.5 s , while engine is running
POSSIBLE CAUSE	• ESCL 10 A fuse malfunction • Battery malfunction • Connector or terminal malfunction • Short to ground in wiring harness between battery positive terminal and keyless control module terminal 1B • Open circuit in wiring harness between battery positive terminal and keyless control module terminal 1B • Keyless control module malfunction	



Diagnostic Procedure

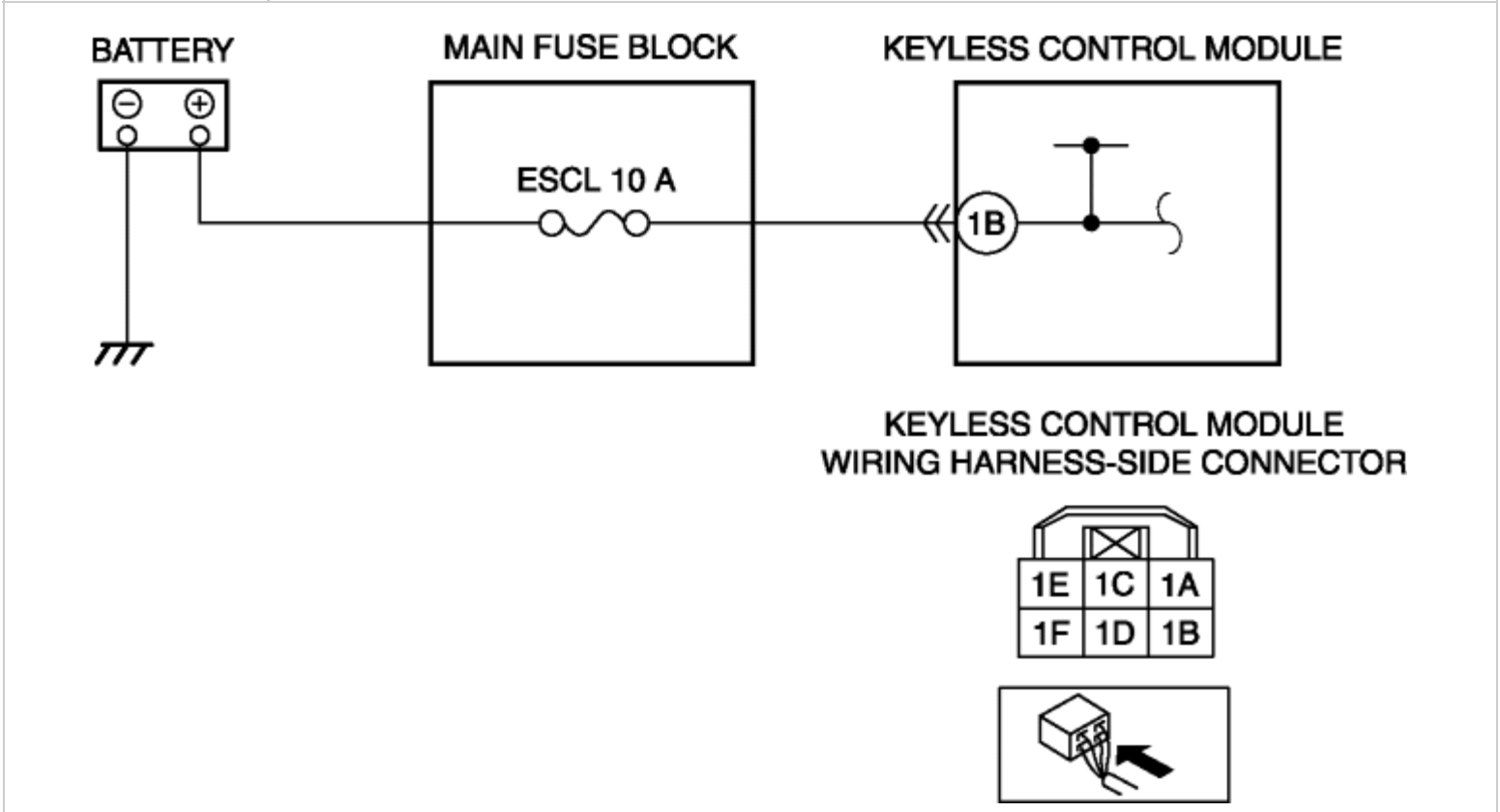
Step	Inspection	Action
1	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove the ESCL 10 A fuse. - Inspect the ESCL 10 A fuse. - Is there any malfunction?	Yes Replace the ESCL 10 A fuse, then go to Step 5.
		No Go to the next step.
2	INSPECT BATTERY - Inspect the battery. (See BATTERY INSPECTION [MZR 2.5].) (See BATTERY INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Recharge or replace the battery, then go to Step 5. (See BATTERY RECHARGING [MZR 2.5] .) (See BATTERY RECHARGING [MZI 3.7 V6] .) (See BATTERY REMOVAL/ INSTALLATION [MZR 2.5] .) (See BATTERY REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
		No Go to the next step.
3	INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION - Disconnect the keyless control module connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 5.
		No Go to the next step.
4	INSPECT BATTERY POWER SUPPLY CIRCUIT (+ B3) FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the ESCL 10 A fuse. - Reconnect the negative battery cable.	Yes Go to the next step.
		No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to the next step.

	• Measure the voltage between keyless control module terminal 1B (wiring harness-side) and body ground. • Is there any voltage?		
5	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) • Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) • Is the same DTC present?	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless control module, then go to the next step. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
6	VERIFY THAT NO OTHER DTCs ARE PRESENT • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	DTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

DTC P0560:16, P0560:17 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	P0560:16	Battery power supply circuit (+B3) voltage less than 9 V is detected for 10 s
	P0560:17	Battery power supply circuit (+B3) voltage higher than 16 V is detected for 0.5 s , while engine is running
POSSIBLE CAUSE	• ESCL 10 A fuse malfunction • Battery malfunction • Connector or terminal malfunction • Short to ground in wiring harness between battery positive terminal and keyless control module terminal 1B • Open circuit in wiring harness between battery positive terminal and keyless control module terminal 1B • Keyless control module malfunction	



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove the ESCL 10 A fuse. - Inspect the ESCL 10 A fuse. - Is there any malfunction?	Yes Replace the ESCL 10 A fuse, then go to Step 5.
		No Go to the next step.
2	INSPECT BATTERY - Inspect the battery. (See BATTERY INSPECTION [MZR 2.5].) (See BATTERY INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Recharge or replace the battery, then go to Step 5. (See BATTERY RECHARGING [MZR 2.5] .) (See BATTERY RECHARGING [MZI 3.7 V6] .) (See BATTERY REMOVAL/ INSTALLATION [MZR 2.5] .) (See BATTERY REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
		No Go to the next step.
3	INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION - Disconnect the keyless control module connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 5.
		No Go to the next step.
4	INSPECT BATTERY POWER SUPPLY CIRCUIT (+ B3) FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the ESCL 10 A fuse. - Reconnect the negative battery cable.	Yes Go to the next step.
		No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to the next step.

	• Measure the voltage between keyless control module terminal 1B (wiring harness-side) and body ground. • Is there any voltage?		
5	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) • Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) • Is the same DTC present?	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless control module, then go to the next step. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
6	VERIFY THAT NO OTHER DTCs ARE PRESENT • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	DTC troubleshooting completed.