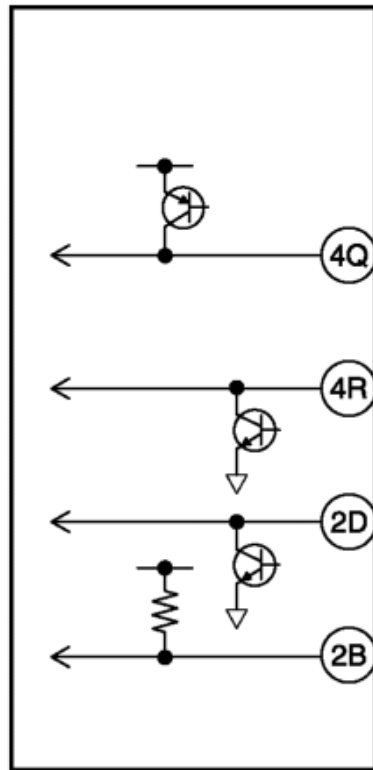


2012 - Mazda6 - Body and Accessories

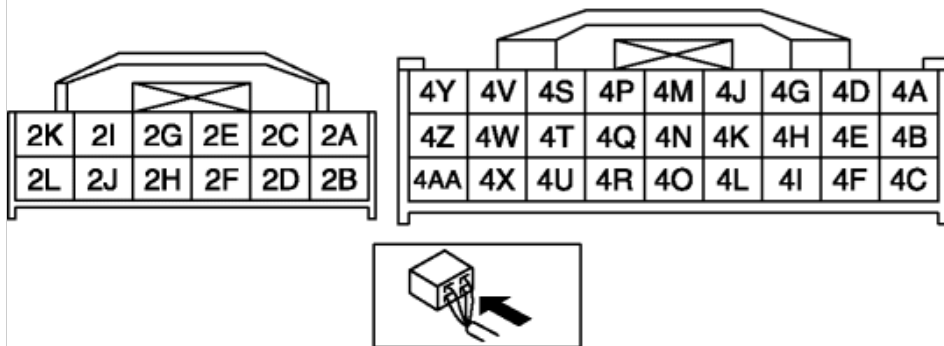
SECURITY LIGHT: NOT ILLUMINATED, DTC B10E6:11/ - [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)]

DTC	Security light flashing pattern		–	Voltage less than the specification (2.2—6.5 V) is detected for 0.5 s while the coil antenna power supply circuit is active
	M-MDS display	Keyless control module	B10E6:11	
		PCM	–	
POSSIBLE CAUSE				• Connector or terminal malfunction • Short to ground in coil antenna power supply circuit • Coil antenna malfunction • Keyless control module malfunction

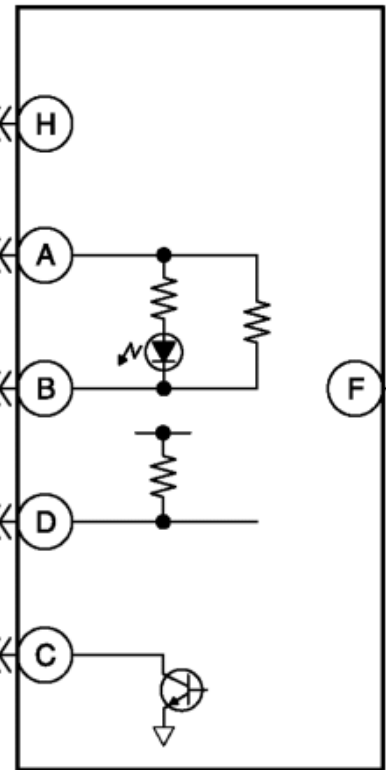
KEYLESS CONTROL MODULE



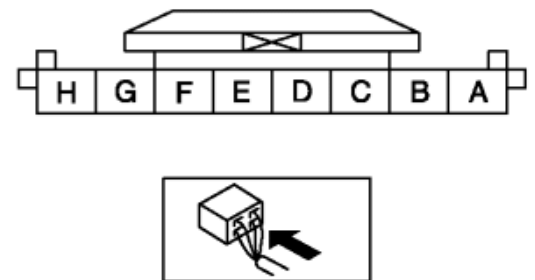
KEYLESS CONTROL MODULE
WIRING HARNESS-SIDE CONNECTOR



COIL ANTENNA



COIL ANTENNA
WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT COIL ANTENNA CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the coil antenna 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 4. No Go to the next step.
2	INSPECT KEYLESS CONTROL MODULE	Yes Repair or replace the connector or terminals, then

	CONNECTOR CONDITION • Disconnect the keyless control module connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	go to Step 4. No Go to the next step.
3	INSPECT COIL ANTENNA POWER SUPPLY CIRCUIT FOR SHORT TO GROUND • Inspect for continuity between the following terminals and body ground: ▪ Coil antenna terminal H (wiring harness-side) ▪ Coil antenna terminal A (wiring harness-side) • Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to the next step. No Go to the next step.
4	PERFORM DTC INSPECTION • Reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the keyless control module and PCM memory using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)].) • Perform the immobilizer system (advanced keyless entry and push button start system) DTC inspection using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)].) • Is the same DTC present?	Yes Replace the coil antenna, then go to the next step. (See COIL ANTENNA REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to Step 6.
5	VERIFY TROUBLESHOOTING COMPLETED • Clear the DTC from the keyless control module and PCM memory using the M-MDS. (See CLEARING DTC [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)].) • Perform the immobilizer system (advanced keyless entry and push button start system) DTC inspection using the M-MDS. (See DTC INSPECTION [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)].) • Is the same DTC present?	Yes Replace the keyless control module and program the immobilizer system-related parts, then go to the next step. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) (See IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to the next step.

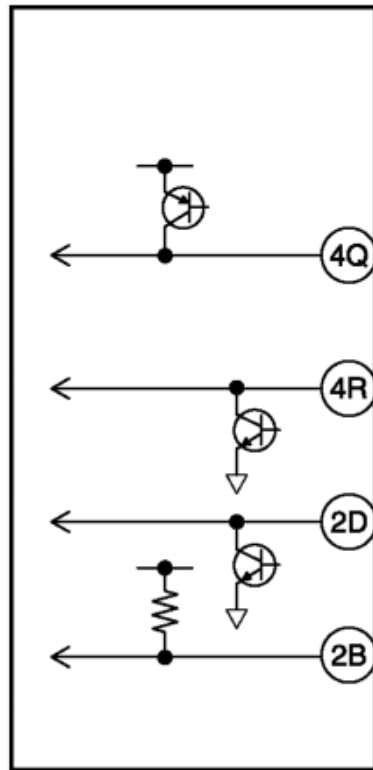
6	VERIFY THAT NO OTHER DTCs ARE PRESENT Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)] .)
		No	DTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

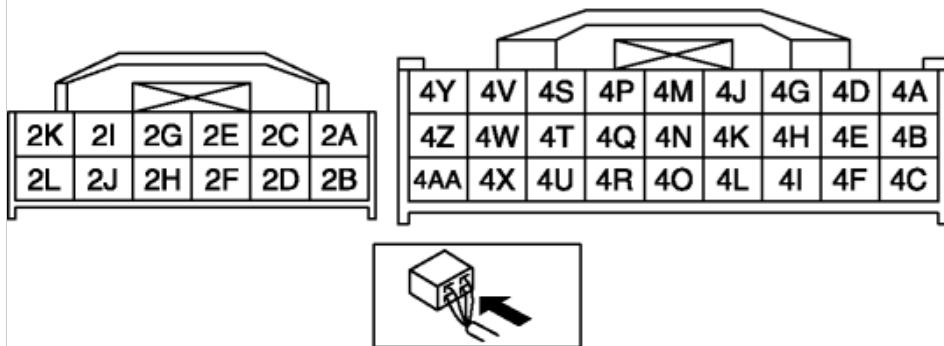
SECURITY LIGHT: NOT ILLUMINATED, DTC B10E6:11/ - [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)]

DTC	Security light flashing pattern		–	Voltage less than the specification (2.2—6.5 V) is detected for 0.5 s while the coil antenna power supply circuit is active
	M-MDS display	Keyless control module	B10E6:11	
		PCM	–	
POSSIBLE CAUSE				• Connector or terminal malfunction • Short to ground in coil antenna power supply circuit • Coil antenna malfunction • Keyless control module malfunction

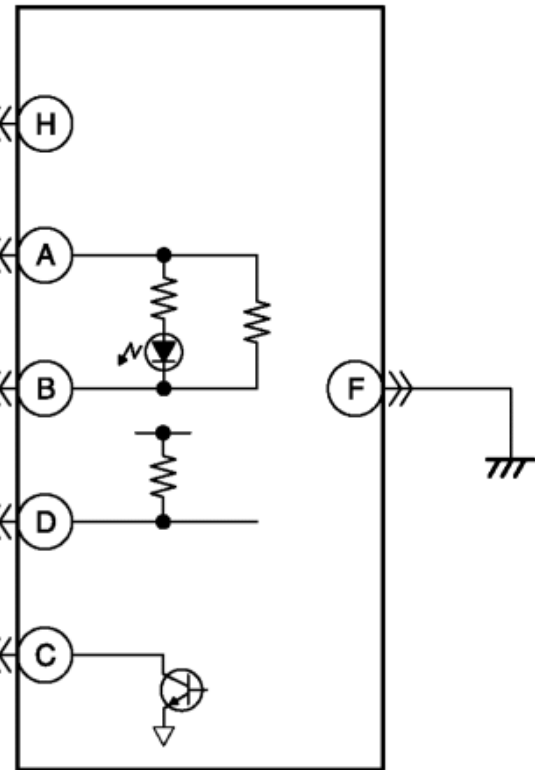
KEYLESS CONTROL MODULE



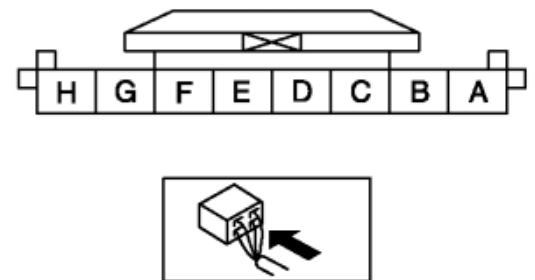
KEYLESS CONTROL MODULE
WIRING HARNESS-SIDE CONNECTOR



COIL ANTENNA



COIL ANTENNA
WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT COIL ANTENNA CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the coil antenna 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 4.
		No Go to the next step.
2	INSPECT KEYLESS CONTROL MODULE	Yes Repair or replace the connector or terminals, then

	CONNECTOR CONDITION • Disconnect the keyless control module connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	go to Step 4. No Go to the next step.
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6	VERIFY THAT NO OTHER DTCs ARE PRESENT Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [IMMOBILIZER SYSTEM (ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM)] .)
		No	DTC troubleshooting completed.