

2012 - Mazda6 - Body and Accessories

DTC B1026:51 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	- Steering lock unit programming error - Steering lock unit is not programmed
POSSIBLE CAUSE	- Programming is not performed after replace the steering lock unit - Connector or terminal malfunction - Steering lock unit malfunction - Keyless control module malfunction

Diagnostic Procedure

Step	Inspection	Action
1	PERFORM STEERING LOCK UNIT PROGRAMMING - Perform the steering lock unit programming. (See STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Switch the ignition to off, then open the door to lock the steering. - Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS.	Yes Go to the next step.
		No Go to Step 6.

	(See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) Is the same DTC present?		
2	INSPECT STEERING LOCK UNIT CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the steering lock unit 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.
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 STEERING LOCK UNIT - Inspect the steering lock unit. (See STEERING LOCK UNIT INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is there any malfunction?	Yes	Replace the steering lock unit and perform steering lock unit programming, then go to the next step. (See STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) (See STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
5	VERIFY TROUBLESHOOTING COMPLETED Make sure to reconnect the	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless control module, then go to the next step.

	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] .) • Switch the ignition to off, then open the door to lock the steering. • 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?		(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.

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		No Go to Step 6.

	(See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) Is the same DTC present?		
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		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 STEERING LOCK UNIT - Inspect the steering lock unit. (See STEERING LOCK UNIT INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is there any malfunction?	Yes	Replace the steering lock unit and perform steering lock unit programming, then go to the next step. (See STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) (See STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
5	VERIFY TROUBLESHOOTING COMPLETED Make sure to reconnect the	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless control module, then go to the next step.

	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] .) • Switch the ignition to off, then open the door to lock the steering. • 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?		(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.