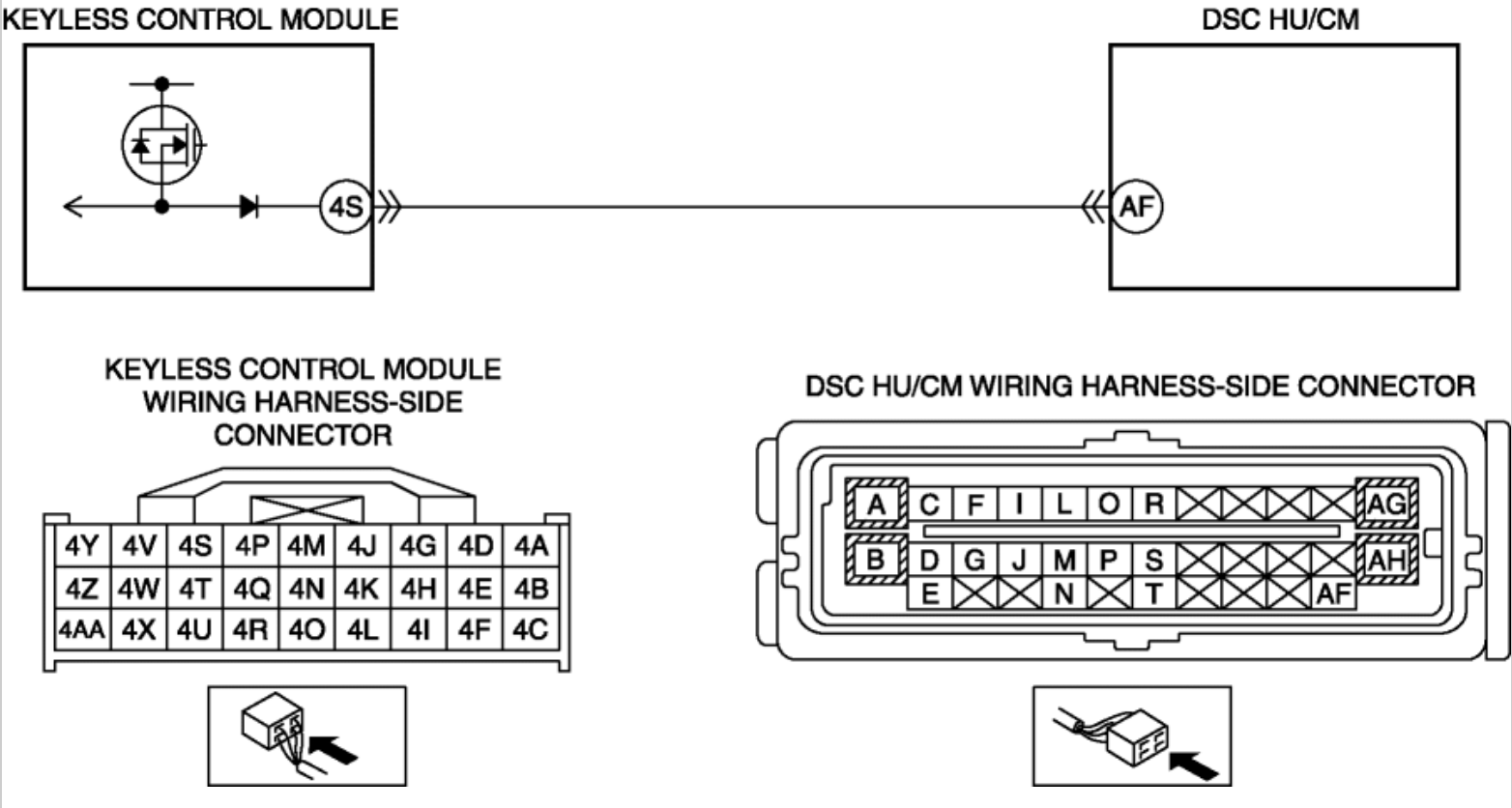


2012 - Mazda6 - Body and Accessories

DTC B11E8:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	ABS driver circuit voltage higher than threshold (2.2—6.5 V) is detected under the following conditions: - Ignition switch is off - ABS driver circuit is not active
POSSIBLE CAUSE	- Connector or terminal malfunction - Short to power supply in wiring harness between DSC HU/CM terminal AF and keyless control module terminal 4S - Short to power supply in wiring harness between combined sensor terminal D and keyless control module terminal 4S - Keyless control module malfunction



Diagnostic Procedure

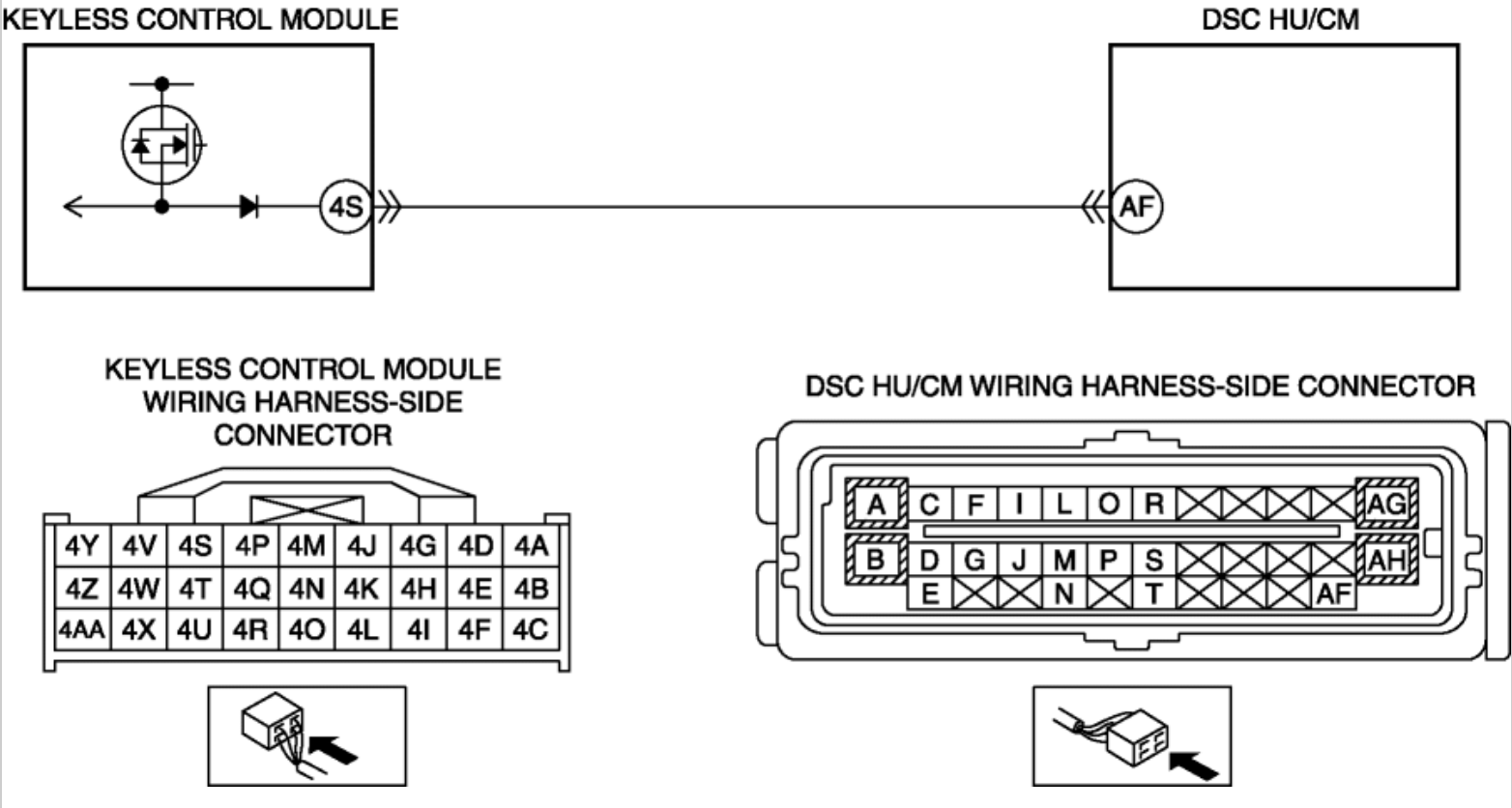
Step	Inspection	Action
1	INSPECT DSC HU/ CM CONNECTOR CONDITION	YesRepair or replace the connector or terminals, then go to Step 4.

	• Switch the ignition to off. • Disconnect the negative battery cable. • Disconnect the DSC HU/CM connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	No	Go to the next step.
2	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 4.
		No	Go to the next step.
3	INSPECT ABS DRIVER CIRCUIT FOR SHORT TO POWER SUPPLY • Reconnect the negative battery cable. • Measure the voltage between DSC HU/CM terminal AF (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to the next step.
		No	Go to the next step.
4	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.
5	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 B11E8:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	ABS driver circuit voltage higher than threshold (2.2—6.5 V) is detected under the following conditions: - Ignition switch is off - ABS driver circuit is not active
POSSIBLE CAUSE	- Connector or terminal malfunction - Short to power supply in wiring harness between DSC HU/CM terminal AF and keyless control module terminal 4S - Short to power supply in wiring harness between combined sensor terminal D and keyless control module terminal 4S - Keyless control module malfunction



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT DSC HU/ CM CONNECTOR CONDITION	YesRepair or replace the connector or terminals, then go to Step 4.

	• Switch the ignition to off. • Disconnect the negative battery cable. • Disconnect the DSC HU/CM connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	No	Go to the next step.
2	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 4.
		No	Go to the next step.
3	INSPECT ABS DRIVER CIRCUIT FOR SHORT TO POWER SUPPLY • Reconnect the negative battery cable. • Measure the voltage between DSC HU/CM terminal AF (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to the next step.
		No	Go to the next step.
4	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.
5	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.

