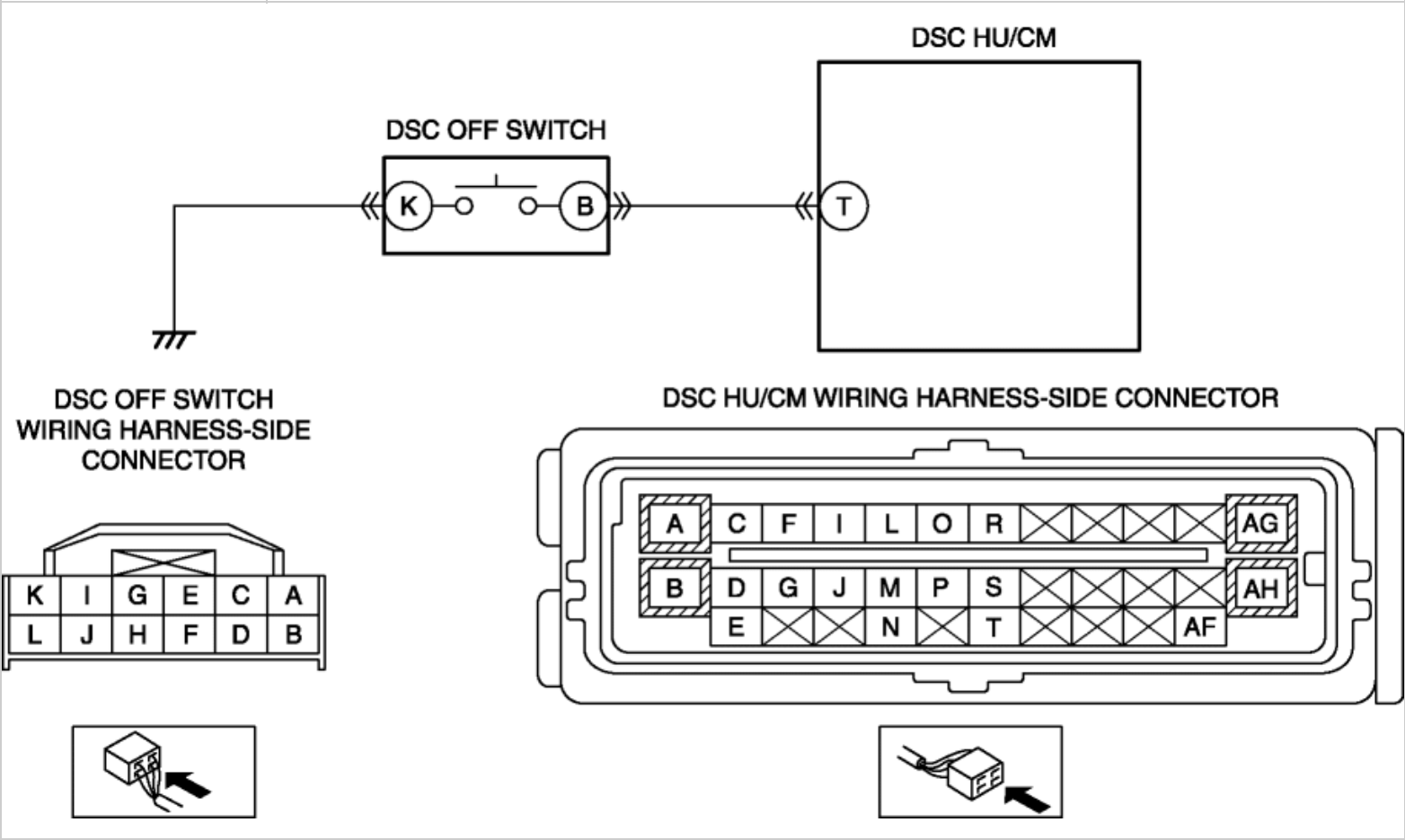


2012 - Mazda6 - Brakes

DTC C0089:11 [DYNAMIC STABILITY CONTROL (DSC)]

DTC C0089:11	DSC OFF switch
DETECTION CONDITION	• Detect the short to ground in DSC OFF switch circuit.
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between DSC OFF switch terminal B and DSC HU/CM terminal T • DSC OFF switch malfunction • DSC HU/CM malfunction



Diagnostic procedure

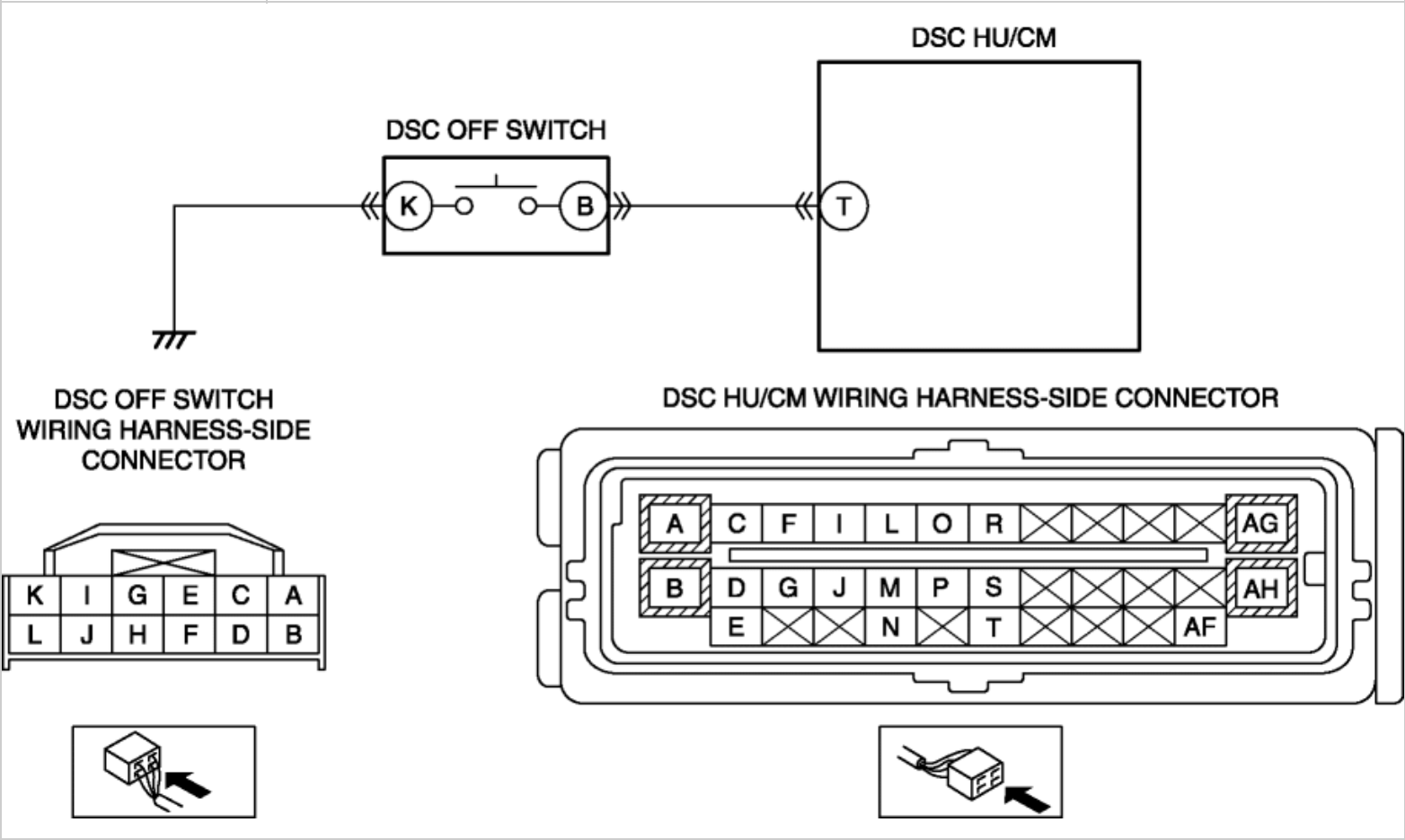
STEP	INSPECTION	ACTION
1	INSPECT DSC OFF SWITCH CONNECTOR CONDITION	YesRepair or replace the connector or terminals,

	• Switch the ignition to off. • Disconnect the negative battery cable. • Disconnect the DSC OFF switch connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	then go to Step 5. No Go to the next step.
2	INSPECT DSC HU/ CM CONNECTOR CONDITION • Disconnect the DSC HU/CM 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 DSC OFF SWITCH POWER SUPPLY CIRCUIT FOR SHORT TO GROUND • Inspect for continuity between DSC OFF switch terminal B (wiring harness-side) and body ground. • Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 5. No Go to the next step.
4	INSPECT DSC OFF SWITCH • Inspect the DSC OFF switch. (See DSC OFF SWITCH INSPECTION.) • Is there any malfunction?	Yes Replace the DSC OFF switch, then go to the next step. (See DSC OFF SWITCH REMOVAL/ INSTALLATION.) No Go to the next step.
5	VERIFY DTC TROUBLESHOOTING COMPLETED • Make sure to reconnect the disconnected connector. • Reconnect the negative battery cable. • Clear the DTC from the DSC HU/CM memory using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Perform the DSC DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Is the same DTC present?	Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See DSC HU/ CM REMOVAL/ INSTALLATION.) No Go to the next step.
6	VERIFY AFTER REPAIR PROCEDURE • Are any DTCs present?	Yes Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) No DTC troubleshooting completed.

2012 - Mazda6 - Brakes

DTC C0089:11 [DYNAMIC STABILITY CONTROL (DSC)]

DTC C0089:11	DSC OFF switch
DETECTION CONDITION	• Detect the short to ground in DSC OFF switch circuit.
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between DSC OFF switch terminal B and DSC HU/CM terminal T • DSC OFF switch malfunction • DSC HU/CM malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
1	INSPECT DSC OFF SWITCH CONNECTOR CONDITION	YesRepair or replace the connector or terminals,

	• Switch the ignition to off. • Disconnect the negative battery cable. • Disconnect the DSC OFF switch connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	then go to Step 5. No Go to the next step.
2	INSPECT DSC HU/ CM CONNECTOR CONDITION • Disconnect the DSC HU/CM 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 DSC OFF SWITCH POWER SUPPLY CIRCUIT FOR SHORT TO GROUND • Inspect for continuity between DSC OFF switch terminal B (wiring harness-side) and body ground. • Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 5. No Go to the next step.
4	INSPECT DSC OFF SWITCH • Inspect the DSC OFF switch. (See DSC OFF SWITCH INSPECTION.) • Is there any malfunction?	Yes Replace the DSC OFF switch, then go to the next step. (See DSC OFF SWITCH REMOVAL/ INSTALLATION.) No Go to the next step.
5	VERIFY DTC TROUBLESHOOTING COMPLETED • Make sure to reconnect the disconnected connector. • Reconnect the negative battery cable. • Clear the DTC from the DSC HU/CM memory using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Perform the DSC DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Is the same DTC present?	Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the DSC HU/CM, then go to the next step. (See DSC HU/ CM REMOVAL/ INSTALLATION.) No Go to the next step.
6	VERIFY AFTER REPAIR PROCEDURE • Are any DTCs present?	Yes Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) No DTC troubleshooting completed.