

2012 - Mazda6 - Brakes

DTC C0051:54 [DYNAMIC STABILITY CONTROL (DSC)]

NOTE:

- The steering angle initialization value of the BCM is stored using the battery power supply. Therefore, the battery power supply of the BCM is cut and the stored steering angle initialization value is cleared when any of the following items are performed.
 - Negative battery cable disconnection
 - BCM connector disconnection
 - Fuse (ROOM) removal
 - Wiring harness disconnection between battery, BCM connector, steering angle sensor connector

DTC C0051:54	Steering angle sensor (abnormal initialization) system
DETECTION CONDITION	• The steering angle sensor detects the initialization procedure has not been perform.
POSSIBLE CAUSE	• Steering angle sensor malfunction ▪ The initialization procedure for the steering angle sensor has not been perform • BCM malfunction • DSC HU/CM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	PERFORM STEERING ANGLE SENSOR INITIALIZATION PROCEDURE	Yes Go to the next step.
	• Perform the steering angle sensor initialization procedure. (See STEERING ANGLE SENSOR INITIALIZATION PROCEDURE.) • Clear the DTC from the DSC HU/CM memory using the M-MDS.	No Go to Step 4.

	(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?		
2	PERFORM BCM DTC INSPECTION - Perform the BCM DTC inspection using the M-MDS. (See DTC INSPECTION [BCM].) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [BCM].)	
		No Go to the next step.	
3	VERIFY DTC TROUBLESHOOTING COMPLETED - 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.	
4	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.	

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