

2012 - Mazda6 - Brakes

NO.5 DSC* 2 OPERATES FREQUENTLY/ DSC DOES NOT WORK CORRECTLY * 2: DSC INDICATOR LIGHT GOES ON AND OFF WHILE DSC OPERATES [DYNAMIC STABILITY CONTROL (DSC)]

5	DSC* 2 operates frequently/ DSC does not work correctly* 2: DSC indicator light goes on and off while DSC operates
POSSIBLE CAUSE	• DSC HU/ CM detected malfunction • There is a difference in size, air pressure or wear conditions between front and rear tires. • Poor installation with SAS control module (yaw rate sensor, low-G (XY) sensor) and/ or steering angle sensor (if any of the above sensors are poorly installed, DSC may operate intermittently) • Steering angle sensor initialization has not been performed after replacing steering angle sensor • Incorrect ABS wheel speed sensor is inputted to DSC HU/ CM • DSC HU/ CM initial setting has not been performed after replacing DSC HU/ CM

Diagnostic procedure

STEP	INSPECTION	ACTION
1	CONFIRM DSC HU/ CM DTC	
	• Retrieve the DSC HU/CM DTC using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Is there any DTC retrieved?	Yes Go to the applicable DTC troubleshooting procedure. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) No Go to the next step.
2	VERIFY THAT EACH SENSOR IS INSTALLED	
	• Are SAS control module (yaw rate sensor, low-G (XY) sensor) and steering angle sensor securely installed?	Yes Go to the next step. No Install the malfunctioning sensor securely.
3	VERIFY THAT EACH SENSOR IS INITIALIZED	
	• Did each sensor initialize after	Yes Go to the next step.

	replacement of DSC HU/CM or steering angle sensor?	No	Perform the initialization procedure.
4	INSPECT TIRE SIZE AND AIR PRESSURE - Inspect tire size and air pressure. - Tire size and air pressure as specified?	Yes	Go to the next step.
		No	Replace with specified tires and adjust tire air pressure.
*5	INSPECT ABS WHEEL-SPEED SENSOR OUTPUT PULSE - Perform the voltage pattern inspection for each ABS wheel-speed sensor. (See FRONT ABS WHEEL-SPEED SENSOR INSPECTION.) (See REAR ABS WHEEL-SPEED SENSOR INSPECTION.) - Is the output voltage pattern normal?	Yes	Found malfunctioning part according to the "INTERMITTENT CONCERN TROUBLESHOOTING". (See PRECAUTION [DYNAMIC STABILITY CONTROL (DSC)] .)
		No	ABS wheel-speed sensor installation inspection: - Inspect the ABS wheel-speed sensor for looseness and confirm it is securely adhered. ABS sensor rotor installation inspection: - Inspect the ABS sensor rotor for poor installation.

- When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.

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