

2012 - Mazda6 - Brakes

NO.4 ABS OR TCS* 1 OPERATES FREQUENTLY/ TCS DOES NOT WORK CORRECTLY * 1: DSC SYSTEM FUNCTION CONTAINS TRACTION CONTROL FUNCTION, DSC INDICATOR LIGHT GOES ON AND OFF WHILE DSC OPERATES [DYNAMIC STABILITY CONTROL (DSC)]

4	ABS or TCS* 1 operates frequently/ TCS does not work correctly* 1: DSC system function contains traction control function, DSC indicator light goes on and off while DSC operates
POSSIBLE CAUSE	• DSC HU/ CM detected malfunction (input and output device malfunction) • There is a malfunction in engine control system (TCS malfunction). • There is a difference in size, air pressure or wear conditions between front and rear tires • Incorrect ABS wheel-speed signal is inputted to DSC HU/ CM

Diagnostic procedure

STEP	INSPECTION	ACTION
1	CONFIRM DSC HU/ CM AND/ OR PCM DTC • Retrieve the DSC HU/CM DTC using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Retrieve PCM DTC using the M-MDS, if the traction control function has problem. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) (See ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6].) • Is there any DTC retrieved?	Yes Go to the applicable DTC troubleshooting procedure. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)] .) (See DTC TABLE [MZR 2.5] .) (See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step.
2	INSPECT TIRE SIZE AND AIR PRESSURE • Inspect tire size and air	Yes Go to the next step.

	pressure. • Are size and air pressure as specified?	No	Replace with specified tires and adjust tire air pressure.
*3	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 No	Found malfunctioning part according to "INTERMITTENT CONCERN TROUBLESHOOTING". 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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