

2012 - Mazda6 - Transmission/ Transaxle

DTC P1712:00 [FS5A-EL]

NOTE:

- This DTC is recorded when the torque reduction control operates to prevent the differential journal from burning or seizure. The DTC does not indicate a malfunction.

DTC P1712:00	Prevents the differential journal from burning or seizure
DETECTION CONDITION	• The TCM detects that difference between rotation speed of left and right driving wheels is 490 rpm or more when the following conditions are met. ▪ Vehicle speed: 80 km/h (49 mph) or less ▪ DSC OFF switch operation: On (DSC/TCS not operating) ▪ Wheel speed signal: normal Diagnostic support note • The MIL does not illuminate. • The AT warning light does not illuminate. • PENDING CODE is not available. • FREEZE FRAME DATA is not available. • The DTC is stored in the TCM memory.
POSSIBLE CAUSE	• A difference occurs between the rotation speed of the left and right drive wheels under the following conditions: ▪ Extracting vehicle from mud ▪ Tires spin on slippery road

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY MALFUNCTION SYMPTOM • Has the customer indicated that there is a lack of power?	Yes Go to the next step.
		No Go to Step 3.

2	VERIFY THAT VEHICLE HAS BEEN DRIVEN ON MUD OR SLIPPERY ROAD • Connect the M-MDS to the DLC-2. • Verify the following monitoring value using the PID/data monitor function. ▪ DGP_DIS_1 (traveled distance since last recording of DTC P1712:00) • Verify with the customer if the vehicle had been driven on a muddy or slippery road at the traveled distance indicated by the above monitoring value. • Has the customer driven on a muddy or slippery road?		Yes Explain to the customer that the torque reduction control operates to prevent the differential journal from burning or seizure, however, this does not indicate a malfunction. After explanation, go to the next step. No Verify that the cause of the lack of power is engine-related. (See SYMPTOM DIAGNOSTIC INDEX [MZR 2.5].) After inspection, go to the next step.
3	VERIFY NO DTCs ARE PRESENT • Switch the ignition to off, and then switch the ignition to ON. • Verify the DTCs recorded in the TCM. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FS5A-EL].) • Are any DTCs other than P1712:00 recorded?		Yes Go to the applicable DTC inspection (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FS5A-EL].) No Go to the next step.
4	CLEAR DTC P1712:00 • Clear the DTC using the M-MDS. • Switch the ignition to off, and then switch the ignition to ON. • Verify the DTCs recorded in the TCM. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FS5A-EL].) • Has DTC P1712:00 been recorded?		Yes Repeat Step 4. No DTC troubleshooting completed.

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