P1769 TIRE SIZE FAULT

GENERAL DESCRIPTION

ITM(InterActive Torque Management) system can detect the tire size fault by calculating each wheel speed, if the tire size equipped at the vehicle is 10% bigger than normal tire. Wheel Speed Sensor senses vehicle speed and difference between front and rear wheel speed. Opreation for getting Rotating Speeds of front/rear wheel can be got from deviding wheel speed sensor Rotating Speeds of front/rear by 2
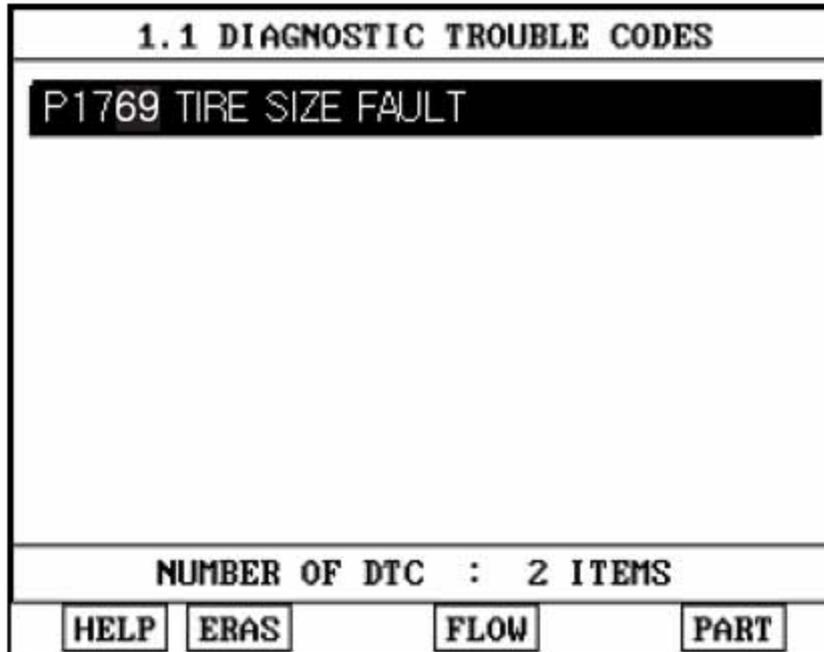
DTC DESCRIPTION

This code is set, if ITM-ECU detect tha the tire size is 10% bigger than normal tire by calculating each wheel speed. When the failure is set there is no signal in the warning lamp, just ITM-ECU sets and stores this code.

DTC DETECTING CONDITION

Item	Detecting Condition	Possible Cause
DTC Strategy	IA tire is estimated to have a tire size 10% more that the base tire size	• TIRE SIZE (OEM:235/60R18) • Faulty TCCU
Enable Conditions	Message present 1.0 sec self clearing	
Threshold Value	Estimated tire size has been detected and has matured for 1 second	
Diagnosticn Time	1 sec	
MIL on condition		
Fail Safe	Active fault is set, but lamp is not turned on	

MONITOR DTC STATUS

1). Connect scantool to Data Link Connector(DLC).
2). Warm up the engine to normal operating temperature.
3). Monitor DTC(Diagnostics Trouble Code) on the scantool.

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       1.1 DIAGNOSTIC TROUBLE CODES

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         NUMBER OF DTC  :  2 ITEMS
   HELP   ERAS          FLOW        PART
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4). Is the same DTC displayed again?
YES

▶ Check part number and tire size.

▶ Repair or replace as necessary and go to "Verification of vehicle Repair"

    procedure.

NO

▶ Fault is intermittent caused by poor contact in the sensor' s and/or TCCU' s
    connector or was repaired and TCCU memory was not cleared. Thoroughly
    check connectors for looseness, poor connection, bending, corrosion,
    contamination, deterioration, or damage. Repair or replace as necessary
    and go to "Verification of vehicle Repair" procedure.

VERIFICATION OF VEHICLE REPAIR

1). Connect scan tool and select "Diagnostic Trouble Codes(DTCs)" mode.
2). Using scantool, Clear DTC.
3). Operate the vehicle within DTC Enable conditions in General information.
4). Are any DTCs present ?

YES

▶ Go to the applicable troubleshooting procedure.

NO

▶ System is performing to specification at this time.