

Fuel Pressure Sensor: All Technical Service Bulletins Fuel System/Engine Controls - MIL ON/DTC P0191 Set

TSB 07-4-7

03/07/05

MIL ON WITH DTC P0191 - FUEL RAIL PRESSURE SENSOR CIRCUIT PERFORMANCE

FORD:
2005-2006 Five Hundred, Freestyle

MERCURY:
2005-2006 Montego

This article supersedes TSB 06-18-12 to update the the Service Procedure date code format.

ISSUE

Some 2005-2006 Freestyle, Five Hundred, and Montego vehicles may exhibit intermittent malfunction indicator light (MIL) on with diagnostic trouble code (DTC) P0191 for fuel rail pressure sensor circuit performance. Other DTCs and/or driveability concerns may also be present.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

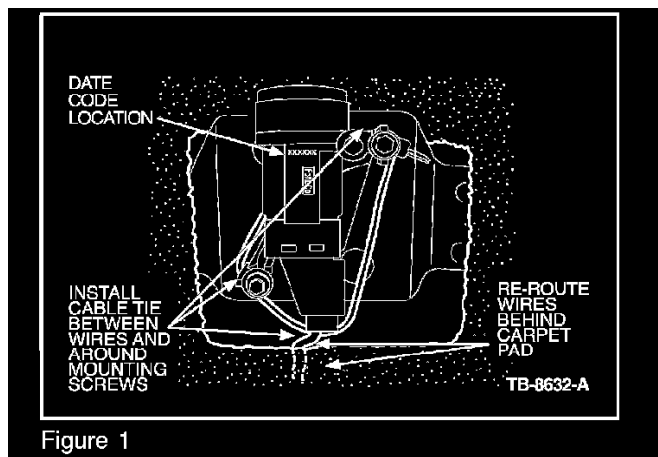
If the concern is a hard fault and can be verified, perform normal diagnostics by following revised on-line Powertrain Controls/Emissions Diagnosis (PC/ED) pinpoint tests.

For Intermittent Concerns:

NOTE

IF CONCERN IS FOUND AT ANY POINT WHILE PERFORMING SPECIFIC CHECKS BELOW, IT IS NOT NECESSARY TO PERFORM REMAINING CHECKS/REPAIRS.

1. A possible short of the VREF signal internal to the EGR system module (ESM) may result in less than 5 volts on the VREF signal line. To check for internal ESM short, check resistance between Pin-2 (VREF) and Pin-6 (signal return) on the ESM with ESM harness disconnected. If resistance is less than 2000 ohms, replace ESM following Workshop Manual (WSM), Section 303-08.
2. Inspect main engine harness to powertrain control module (PCM) rub through on the A/C line at back right of engine compartment. Repair as necessary.
3. Inspect fuel rail pressure and temperature sensor located at top right of engine for broken or cracked vacuum port. Replace as necessary following WSM, Section 303-14.



4. Inspect inertia fuel shutoff (IFS) located in front passenger foot well for loose or disconnected wiring/connector and build date code on switch. If switch was built before November 2005 (5 L XXX) replace switch. Date code is visible without removing switch and is located near top of switch. (Figure 1)
 - a. Format is Year (4=2004, 5=2005, 6=2006) Month (A=Jan, B=Feb, C=Mar "I" is not used) Day (1-31) Shift (X or Y). On all vehicles,

reroute inertia switch wiring behind/under carpet pad and install cable tie over connector. (Figure 1)

5. If vehicle is built before 8/16/2006, review Freeze Frame Data for fuel level indication (FLI) and fuel rail pressure (FRP). If FLI was 25% or less and FRP reading was below 20 PSI, concern may be due to jet pump performance under high demand. Replace fuel pump module, which contains integral jet pump, following WSM, Section 310-01.

PART NUMBER	PART NAME
6F9Z-9H307-A	Fuel Pump Module - Freestyle
6G1Z-9H307-A	Fuel Pump Module - Five Hundred/Montego
5L2Z-9341-A	Inertia Switch
3F2Z-9G756-AC	FRP Sensor
5F9Z-9D475-BA	EGR System Module

Parts Block

WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage

IMPORTANT: Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

OPERATION	DESCRIPTION	TIME
070407A	2005-2006 Freestyle, Five Hundred, Montego: Check Diagnostic Trouble Codes And Replace Exhaust Gas Recirculation System Module (Do Not Use With 12650D, 12650D12, 12650D30, 9756A, 9350E)	0.9 Hr.
070407B	2005-2006 Freestyle, Five Hundred, Montego: Check Diagnostic Trouble Codes And Replace The Fuel Rail Pressure And Temperature Sensor (Do Not Use With 12650D, 12650D12, 12650D30, 9756A, 9350E)	0.5 Hr.
070407C	2005-2006 Freestyle, Five Hundred, Montego: Check Diagnostic Trouble Codes And Replace The Inertia Fuel Shutoff (IFS) Switch (Do Not Use With 12650D, 12650D12, 12650D30, 9756A, 9350E)	0.5 Hr.
070407D	2005-2006 Freestyle: Check Diagnostic Trouble Codes And Replace The Fuel Pump, Includes Time To Remove And Install The Fuel Tank (Do Not Use With 12650D, 12650D12, 12650D30, 9756A, 9350E)	1.5 Hrs.
070407E	2005-2006 Five Hundred, Montego: Check Diagnostic Trouble Codes And Replace The Fuel Pump, Includes Time To Remove And Install The Fuel Tank (Do Not Use With 12650D,	1.3 Hrs.

12650D12, 12650D30,
9756A, 9350E)

MT070407	Claim Additional Labor Time Required As Actual Time Or Use SLTS Operation If Available	Actual Time
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DEALER CODING

CONDITION
CODE
42

BASIC PART NO.

9H307

NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford, Lincoln, or Mercury dealership to determine whether the Bulletin applies to your vehicle.

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