

MIL ON WITH DTC P0463 OR ERRATIC FUEL GAUGE OPERATION

TSB 06-17-10

FORD:
2004-2007 Explorer

MERCURY:
2004-2007 Mountaineer

This article supersedes TSB 06-16-7 to update the Service Procedure.

ISSUE

Some 2004-2007 Explorer 4dr/Mountaineer vehicles may exhibit the malfunction indicator lamp (MIL) on with diagnostic trouble code (DTC) P0463 or an erratic fuel gauge concern. This could be from sulphur contamination in the fuel, causing an open or high resistance on the fuel sender card.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. For vehicles with customer symptom of erratic fuel gauge operation (with no MIL on), proceed to Step 1a. For vehicles with a customer symptom including the MIL on, proceed to Step 1b. If unable to verify the concern, do not continue with this TSB.
 - a. Follow the appropriate pinpoint test (PPT) for "Fuel Gauge Inaccurate" in Workshop Manual (WSM), Section 413-01. If PPT test results lead to fuel pump module replacement, proceed to Step 2. If PPT test results isolate any problem other than fuel pump module replacement, repair as indicated and do not continue with this TSB.
 - b. Install diagnostic scan tool to retrieve DTCs. If DTC P0463 is retrieved, proceed to Step 2. If DTC P0463 is not retrieved, this TSB does not apply, follow normal WSM diagnostics.

2. Remove fuel tank per WSM, Section 310-01.
3. Remove fuel pump assembly from fuel tank per WSM, Section 310-01. See Figure 1 (Chart) to determine if a kit (contains a fuel level sensor assembly, a wire harness and heat shrink tube) or fuel pump assembly is required for repair. For vehicles that can be serviced with a kit go to Step 4. For vehicles that require fuel pump assembly replacement, go to Step 12.

FUEL SENDER REPAIR KIT / PUMP APPLICATION CHART	
Applications	Part Number
2006-2007 4.6L & 4.0L	7L2Z-9H307-K (KIT)
2004 & 2005 4.6L	7L2Z-9H307-B (Pump Assembly)
2004 4.0L built before 3/1/04	7L2Z-9H307-L (KIT)
2004 & 2005 4.0L built on or after 3/1/04	7L2Z-9H307-C (Pump Assembly)

TB-8610-D

Figure 1 - Article 06-17-10

4. Remove the fuel level sensor assembly (sender card/float rod assembly) from the fuel pump assembly per WSM, Section 310-01.
5. Detach electrical connector from fuel pump housing (Figure 2).

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. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

TSB 06-17-10 (Continued)

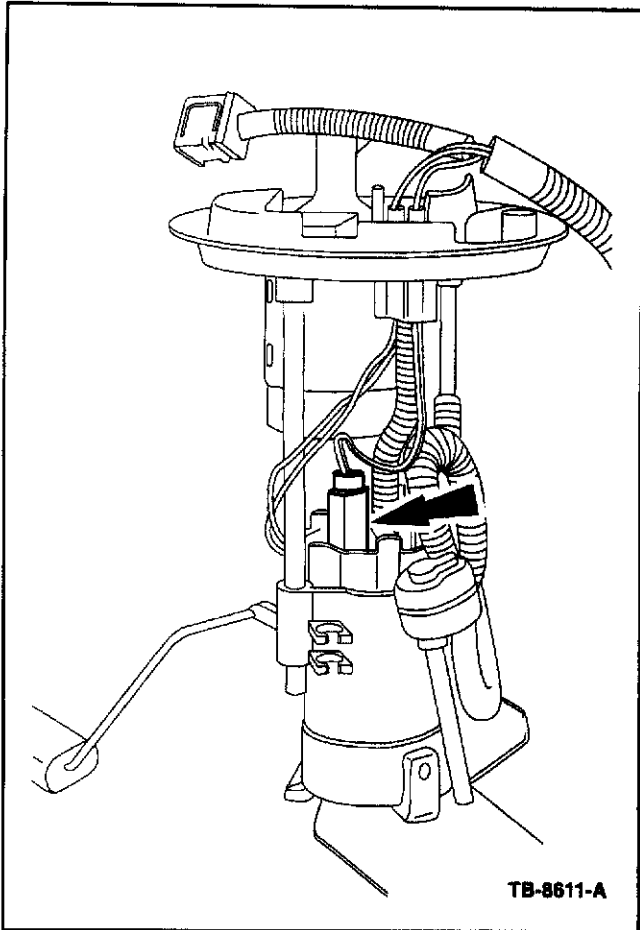


Figure 2 - Article 06-17-10

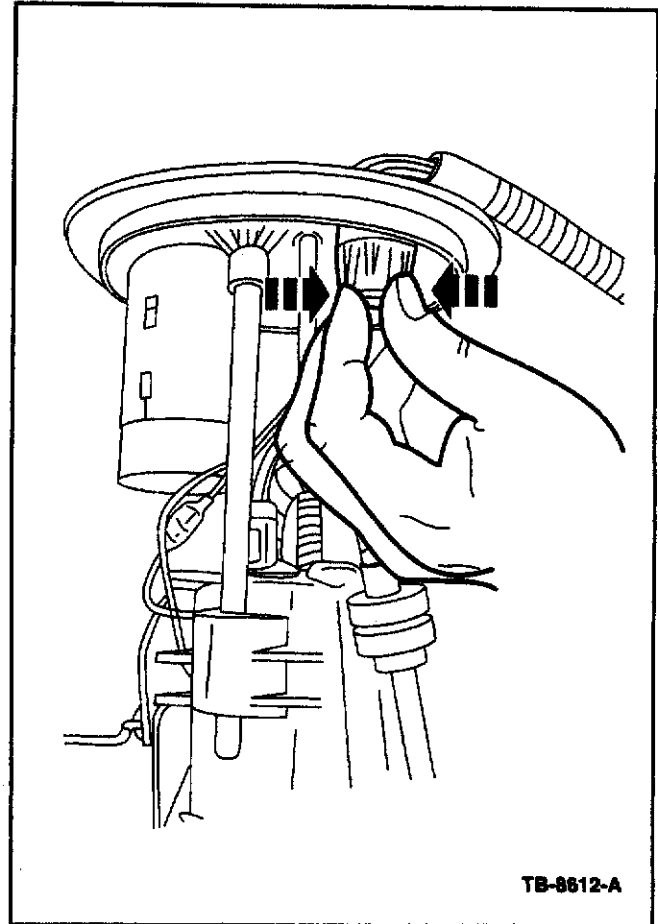


Figure 3 - Article 06-17-10

6. Remove wiring harness from the fuel pump assembly flange by depressing the retaining fingers on the harness connector at bottom of flange and pushing upward out of flange (Figure 3).
7. Install new wiring harness by feeding wires through flange hole and inserting harness connector into flange until an audible click is heard. Check for proper retention.
8. Re-attach electrical connector harness to fuel pump housing. Prior to making the connection, place one loop in the pump wires away from the convoluted feed tube (Figure 4).

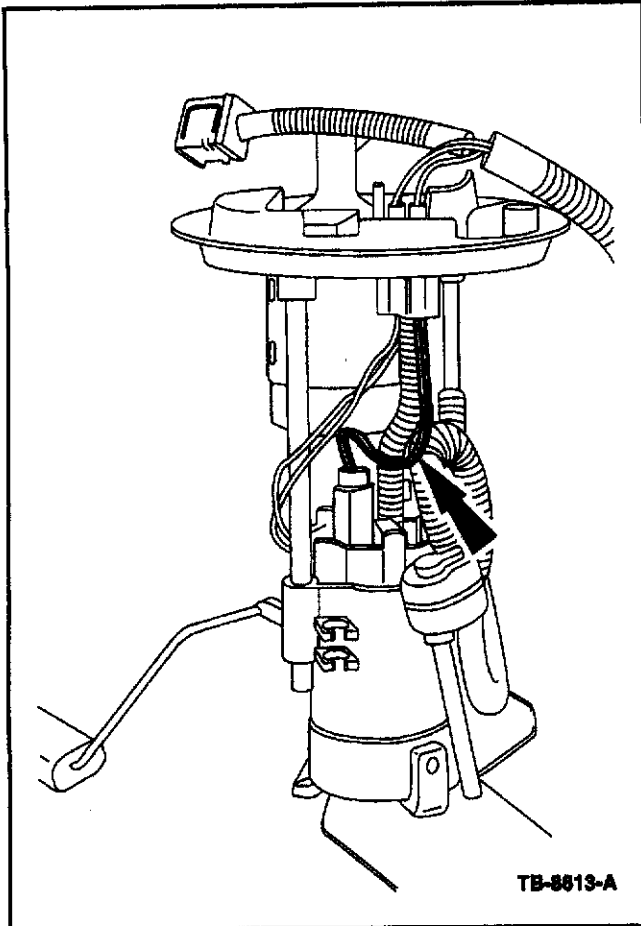


Figure 4 - Article 06-17-10

9. Re-attach the signal wire (yellow) on the harness to the signal wire (yellow) on the replacement fuel level sensor assembly per WSM, Section 310-01 (Figure 5).

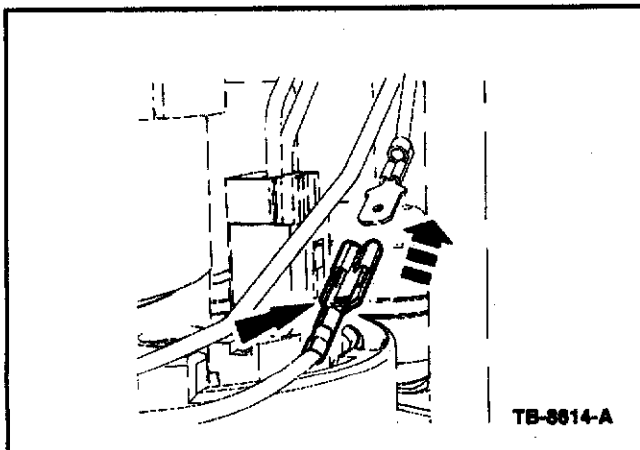


Figure 5 - Article 06-17-10

10. Wrap the ground wire one time around the signal wire and attach the ground wire terminal to the terminal on the fuel level sensor assembly. Check for proper retention.

NOTE

THE GROUND WIRE MUST BE WRAPPED AROUND THE SIGNAL WIRE, AS DESCRIBED IN STEP 10, TO PREVENT POTENTIAL INTERFERENCE WITH THE FLOAT ROD ARM.

11. Re-attach the fuel level sensor assembly to the fuel pump housing, making sure that both the signal wire and the ground wire are routed through the gap between the fuel level sensor assembly and fuel pump bracket. Torque the fastener at the bottom of the fuel level sensor assembly to 1 N·m (9 lb-in).
12. Re-install fuel pump assembly into fuel tank per WSM, Section 310-01.

NOTE

TAKE CARE NOT TO DAMAGE/BEND FLOAT ROD OR SENDER CARD DURING INSTALLATION OF FUEL PUMP ASSEMBLY.

13. Re-install fuel tank per WSM, Section 310-01.

PART NUMBER	PART NAME
7L2Z-9H307-K	Fuel Sender Kit
7L2Z-9H307-B	Fuel Pump Assembly
7L2Z-9H307-L	Fuel Sender Kit
7L2Z-9H307-C	Fuel Pump Assembly

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

OPERATION	DESCRIPTION	TIME
061710A	2004-2007 Explorer/Mountaineer: Diagnose And Replace The Fuel Gauge Tank Unit (Do Not Use With 9275D, 9275A, 9002A)	2.9 Hrs.

DEALER CODING

BASIC PART NO.
9A299

CONDITION
CODE
28