

**3.5L GTDI—INTERMITTENT MIL ILLUMINATED WITH ONE OR MORE OF THE FOLLOWING DTCS P0236, P0238, P025E AND/OR P007D—BUILT ON OR BEFORE 2/15/2013**

TSB 13-6-12

**FORD:**

2013 F-150

**ISSUE**

Some 2013 F-150 vehicles built on or before 2/15/2013 and equipped with a 3.5L Gasoline Turbocharged Direct Injection (GTDI) engine may exhibit an intermittent malfunction indicator light (MIL) illuminated with one or more of the following diagnostic trouble codes (DTCs); P0236, P0238, P025E and/or P007D.

**ACTION**

Follow the Service Procedure steps to correct the condition.

**SERVICE PROCEDURE**

1. Using Integrated Diagnostic System (IDS), retrieve DTCs.
2. Are one or more of the following DTCs stored in the Powertrain Control Module (PCM); P0236, P0238, P025E and/or P007D?
  - a. Yes - proceed to Step 3.
  - b. No - this article does not apply. Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnosis.
3. Inspect for damage the wiring harness at the Turbocharger Boost Sensor connector C1588 for crack to wiring insulation. (Figure 1)
4. Is the wiring insulation damaged?
  - a. Yes - proceed to Step 5.
  - b. No - this article does not apply. Refer to PC/ED manual for normal diagnosis.
5. Install connector pigtail. Refer to splicing methods in Wiring Diagram, Section 5-1.
6. Using electrical tape, retain the harness to the connector shell with enlarged loop. (Figure 2)

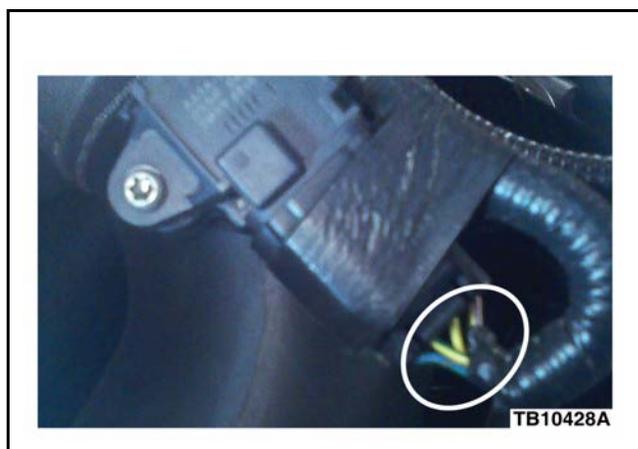


Figure 1 - Article 13-6-12

**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 or Lincoln 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 13-6-12 (Continued)

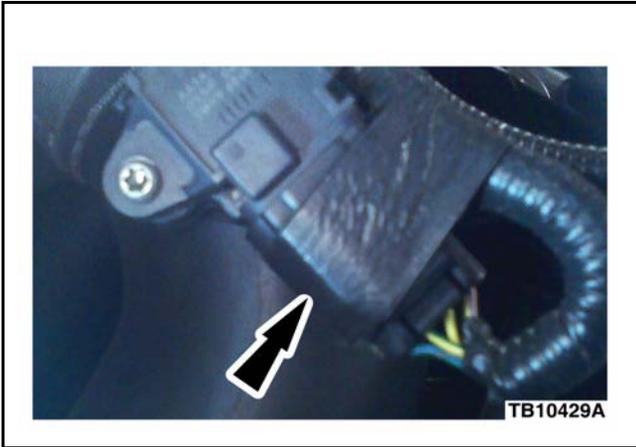


Figure 2 - Article 13-6-12

PART NUMBER	PART NAME
3U2Z-14S411-SPC	Wiring Pigtail

**WARRANTY STATUS:** Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage  
 Warranty/ESP coverage limits/policies/prior approvals are not altered by a TSB.  
 Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

OPERATION	DESCRIPTION	TIME
130612A	2013 F-150 3.5L GTDI: Check DTCs Inspect Wiring Insulation And Replace The Turbocharger Boost Sensor Connector (Do Not Use With Any Other Labor Operations)	0.4 Hr.

### DEALER CODING

BASIC PART NO.  
12A581

CONDITION  
CODE  
95