

**FORD:**

2011-2014 F-150

This article supersedes TSB **15-0044** to update the Parts List.

**ISSUE**

Some 2011-2014 F-150 vehicles equipped with a 3.5L Gasoline Turbocharged Direct Injection (GTDI) engine and built on or before 10-Oct-2014 may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble code (DTC) P0016. Other DTCs and driveability concerns may also be present. This concern may be due to a worn primary timing chain. A kit has been developed to aid in the repair process.

**ACTION**

Follow the Service Procedure steps to correct the condition.

**SERVICE PROCEDURE**

1. Connect the Ford Integrated Diagnostic System (IDS) service tool or equivalent scan tool to the data link connector (DLC). Check for DTCs. Is DTC P0016 present in the powertrain control module (PCM) memory?
  - a. Yes - proceed to Step 2.
  - b. No - this article does not apply. Refer to the Powertrain Control/Emission Diagnosis (PC/ED) manual for normal diagnostics.
2. Check the vehicle build date. Was the vehicle built on or before 10-Oct-2014?
  - a. Yes - proceed to Step 3.
  - b. No - this procedure does not apply. Refer to the PC/ED manual for normal diagnosis.
3. Using IDS, with key on and engine running (KOER), select the VCT\_INT\_ACT1 parameter identification (PID) in the Datalogger.
  - a. If VCT\_INT\_ACT1 PID reads +6 degrees or greater, proceed to Step 4.
  - b. If VCT\_INT\_ACT1 PID reads less than +6 degrees - this procedure does not apply. Refer to PC/ED manual for normal diagnostics.
4. Replace the primary timing chain. Refer to Workshop Manual (WSM), Section 303-01.

<b>PART NUMBER</b>	<b>PART NAME</b>
BL3Z-6D256-B	Kit - Timing Chain Tensioner
BR3Z-6584-B	Camshaft Cover Gasket - Right Hand (2011-2012)
DL3Z-6584-B	Camshaft Cover Gasket - Right Hand (2013-2014)
BL3Z-9417-A	Gasket - Fuel Pump
AA5Z-6714-A	Filter Oil
W503297-S900	Bolt - Fuel Pump
W520100-S437	Nut - Fuel Line
TA-357	Motorcraft® High Performance Engine RTV Silicone

NOTE: The information contained 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.

PART NUMBER	PART NAME
ZC-30-A	Motorcraft® Silicone Gasket Remover
ZC-31-B	Motorcraft® Metal Surface Prep
VC-3-B	Motorcraft® Orange Concentrated Antifreeze/Coolant
XO-5W30-QSP	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil

OPERATION	DESCRIPTION	TIME
170026A	2011-2014 F-150 3.5L GTDI: Diagnose And Replace The Primary Timing Chain (Do Not Use With Any Other Labor Operations)	8.9 Hrs.

**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.

**DEALER CODING**

BASIC PART NO.	CONDITION CODE
6268	33