

**FORD:**

2016 Edge, Expedition, Explorer, F-150, Flex, Transit

**LINCOLN:**

2016 Navigator

This article supersedes TSB **16-0038** to update the vehicle model years, model lines and Service Procedure.

**ISSUE**

Some 2016 F-150, Expedition, Navigator, Transit, Edge, Flex and Explorer vehicles equipped with a 3.5L twin independent variable cam timing (Ti-VCT) or a 3.5L gasoline turbocharged direct injection (GTDI) engine with less than 3200 Km (2000 miles) may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble codes (DTCs) P0011, P0015, P0016, P0017, P0018, P0019, P0021 and/or P0025 stored in the powertrain control module (PCM) memory.

**ACTION**

Follow the Service Procedure steps to correct the condition.

**SERVICE PROCEDURE**

1. Check the vehicle mileage. Does the vehicle have less than 3200 Km (2000 miles) on the odometer?
  - a. Yes - proceed to Step 2.
  - b. No - this article does not apply. Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnosis.
2. Connect the Ford Integrated Diagnostic System (IDS) service tool or equivalent scan tool and check for DTCs. Are any of the following DTCs stored in the PCM memory: P0011, P0015, P0016, P0017, P0018, P0019, P0021 and/or P0025?
  - a. Yes - replace the affected solenoid for the stored DTC. Refer to Workshop Manual (WSM), Section 303-14.
  - b. No - this article does not apply. Refer to PC/ED manual for normal diagnosis.

<b>PART NUMBER</b>	<b>PART NAME</b>
AT4Z-6M280-A	VCT Solenoid - Left Side Exhaust Or Right Side Intake
AT4Z-6M280-C	VCT Solenoid - Right Side Exhaust
AT4Z-6M280-B	VCT Solenoid - Left Side Intake
DL3Z-6584-B	Gasket - Right Side Camshaft Cover - (F-150/Transit/Navigator/Expedition)
BL3Z-6584-A	Gasket - Left Side Camshaft Cover - (F-150/Transit/Navigator/Expedition)
BR3Z-6C535-A	Seal - VCT Cover
BR3Z-6C535-B	Seal - Spark Plug Tube
TA-357	Motorcraft® High Performance Engine RTV Silicone
ZC-30-A	Motorcraft® Silicone Gasket Remover
ZC-31-B	Motorcraft® Metal Surface Prep Wipes
BR3Z-6584-C	Gasket - Left Side Camshaft Cover - (Edge/Flex/Explorer)

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
BR3Z-6584-B	Gasket - Right Side Camshaft Cover - (Edge/Flex/Explorer)
AT4Z-9H486-A	Gasket - Intake - (Edge/Flex/Explorer)

OPERATION	DESCRIPTION	TIME
160093A	2016 Edge 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.5 Hrs.
160093A	2016 Explorer 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.7 Hrs.
160093A	2016 Flex 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.7 Hrs.
160093A	2016 F-150 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.5 Hrs.
160093A	2016 Transit 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
160093A	2016 Expedition, Navigator 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.7 Hrs.
160093A	2016 F-150 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank One (1) (Do Not Use With Any Other Labor Operations)	1.8 Hrs.
160093B	2016 Edge 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
160093B	2016 Explorer 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
160093B	2016 Flex 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
160093B	2016 F-150 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
160093B	2016 Transit 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.0 Hrs.
160093B	2016 Expedition, Navigator 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.8 Hrs.
160093B	2016 F-150 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.6 Hrs.

**TSB 16-0093 (Continued)**

<b>OPERATION</b>	<b>DESCRIPTION</b>	<b>TIME</b>
160093C	2016 Edge 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.3 Hrs.
160093C	2016 Explorer 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.6 Hrs.
160093C	2016 Flex 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.6 Hrs.
160093C	2016 F-150 3.5L Ti-VCT: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	2.3 Hrs.
160093C	2016 Transit 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	3.0 Hrs.
160093C	2016 Expedition, Navigator 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	4.0 Hrs.
160093C	2016 F-150 3.5L GTDI: Retrieve DTC And Replace One Or Both VCT Solenoids On Both Bank One (1) And Bank Two (2) (Do Not Use With Any Other Labor Operations)	3.9 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**

<b>BASIC PART NO.</b>	<b>CONDITION CODE</b>
6M280	41