

**3.5L GTDI - COLD START - TICKING/TAPPING OR RATTLE TYPE NOISE
- BUILT ON OR BEFORE 5/29/2015****TSB 15-0131****FORD:**

2011-2015 F-150

ISSUE

Some 2011-2015 F-150 vehicles equipped with a 3.5L Gasoline Turbocharged Direct Injection (GTDI) engine and built on or before 5/29/2015 may exhibit a ticking/tapping or rattle type noise from the top front cover area of the engine upon initial start-up that may last for 2-5 seconds after a cold soak of six or more hours.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Check the vehicle build date. Was the vehicle built on or before 5/29/2015?
 - a. Yes - proceed to Step 2.
 - b. No - this procedure does not apply. Refer to Workshop Manual (WSM), Section 303-00 for normal diagnosis.
2. Does the customer state a ticking/tapping or rattle type noise occurs from the top front cover area of the engine upon initial cold start-up that lasts for 2-5 seconds after a cold soak of 6 or more hours?
 - a. Yes - proceed to Step 3.
 - b. No - this procedure does not apply. Refer to WSM, Section 303-00 for normal diagnosis.
3. Replace all four variable camshaft timing (VCT) units and primary timing chain. Refer to WSM, Section 303-01.

PART NUMBER	PART NAME
AT4Z-6256-B	Intake VCT Unit (2 Req)
AT4Z-6C525-B	Exhaust VCT Unit (2 Req)
AT4Z-6279-D	Bolt - Intake VCT (2 Req)
AT4Z-6279-E	Bolt - Exhaust VCT (2 Req)
AT4Z-6268-C	Chain - Primary Timing
AA5Z-9439-A	Gasket - Intake
BL3Z-6584-A	Gasket - Camshaft Cover - Left Side
BR3Z-6584-B	Gasket - Camshaft Cover - Right Side (2011-2012)
DL3Z-6584-B	Gasket - Camshaft Cover - Right Side (2013-2015)
BL3Z-9E583-B	O-ring - High Pressure Pump
BR3Z-8507-C	Gasket - Pump
BR3Z-8527-A	O-ring - Pump
7T4Z-8590-A	Seal - Coolant inlet
XW4Z-6700-AA	Seal - Crank
BR3Z-6020-A	Seal - Front Cover Radial
F5RZ-6A340-B	Bolt - Damper

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
TA-357	Motorcraft® High Performance Engine RTV Silicone
ZC-30-A	Motorcraft® Silicone Gasket Remover
ZC-31-B	Motorcraft® Metal Surface Prep
VC-3-B	Motorcraft® Orange Antifreeze/Coolant Concentrated
XO-5W30-QSP	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil

OPERATION	DESCRIPTION	TIME
150131A	2011-2014 F-150 3.5L GTDI: Replace All Four VCT Units And The Primary Timing Chain (Do Not Use With Any Other Labor Operations)	9.2 Hrs.
150131A	2015 F-150 3.5L GTDI: Replace All Four VCT Units And The Primary Timing Chain (Do Not Use With Any Other Labor Operations)	8.8 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
6C525	42