

**2.3L GASOLINE TURBOCHARGED DIRECT INJECTION (GTDI) -  
ILLUMINATED MALFUNCTION INDICATOR LAMP (MIL) - LACK OF  
POWER - DTC P0299**

**TSB 16-0123**

**LINCOLN:**

2015-2016 MKC

**ISSUE**

Some 2015-2016 MKC vehicles equipped with a 2.3L GTDI engine may exhibit an illuminated MIL with a lack of power and diagnostic trouble code (DTC) P0299. This may be due to the turbocharger wastegate actuator rod coming disconnected from the wastegate.

**ACTION**

Follow the Service Procedure steps to correct the condition.

**SERVICE PROCEDURE**

1. Using the Integrated Diagnostic System (IDS) service tool or an equivalent scan tool, check for DTCs. Is DTC P0299 present in the powertrain control module (PCM) memory?
  - a. Yes - proceed to Step 2.
  - b. No - this article does not apply. Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnostics.
2. Using a long screwdriver, attempt to move the turbocharger wastegate actuator rod to verify proper attachment. Is the turbocharger wastegate actuator rod properly attached and the retaining clip in place? (Figure 1)

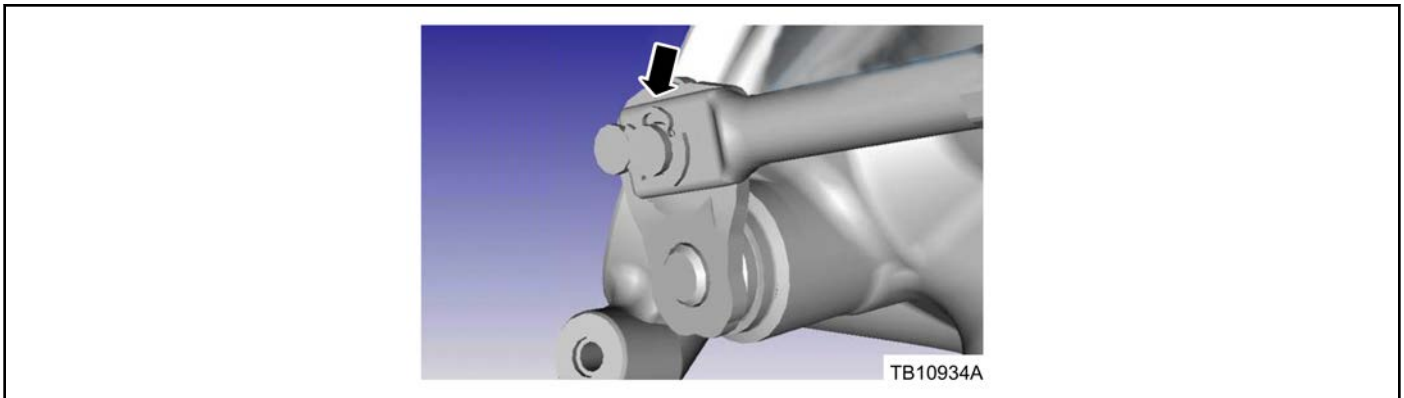


Figure 1 - Article 16-0123

- a. Yes - this article does not apply. Refer to the (PC/ED) manual for normal diagnostics.
  - b. No - proceed to Step 3.
3. Remove the engine cover.
4. Remove the turbocharger inlet air duct.
5. Remove and discard the upper turbocharger mounting nuts and studs. (Figure 2)

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.

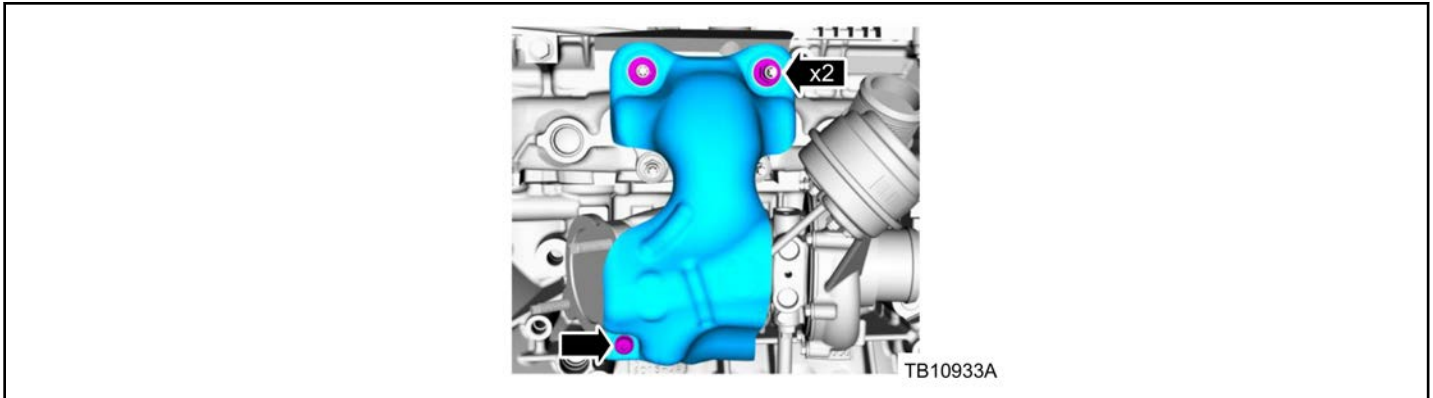


Figure 2 - Article 16-0123

6. Remove the engine front undershield. Refer to WSM, Section 501-02.
7. Remove the lower turbocharger charge air cooler (CAC) inlet air duct.
8. Remove the lower turbocharger heat shield retaining bolt. (Figure 2)
9. Position the turbocharger heat shield aside.
10. Reconnect the turbocharger wastegate actuator rod and install a new retaining clip. (Figure 1)
11. Install the turbocharger heat shield.
  - a. Tighten the new upper turbocharger mounting nuts. Torque to 50 Nm (37 lb-ft)
  - b. Tighten the lower turbocharger heat shield retaining bolt. Torque to 10 Nm (89 lb-in).
12. Reinstall the lower turbocharger CAC inlet air duct.
  - a. Tighten the lower turbocharger CAC inlet air duct retaining nuts. Torque to 11 Nm (97 lb-in)
  - b. Tighten the CAC inlet air duct clamps. Torque to 5 Nm (44 lb-in)
13. Install the engine front undershield. Refer to WSM, Section 501-02
14. Install the turbocharger inlet air duct.
  - a. Tighten the bolts. Torque to 11 Nm (97 lb-in).
  - b. Tighten the clamp. Torque to 5 Nm (44 lb-in).
15. Install the engine cover.

PART NUMBER	PART NAME
W790436-S900	Retaining Clip
W704474-S437	Stud - Upper Turbocharger-to-Manifold
W713095-S403	Nut - Upper Turbocharger-to-Manifold
W716042-S900	Bolt - Lower Turbocharger Heat Shield

OPERATION	DESCRIPTION	TIME
160123A	2015-2016 MKC 2.3L GTDI: Inspect And Reconnect The Actuator Rod With New Retaining Clip Following The Service Procedure (Do Not Use With Any Other Labor Operations)	1.1 Hrs.

**WARRANTY STATUS:**

Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage

**TSB 16-0123 (Continued)**

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>
6K682	39