2.3L GASOLINE TURBOCHARGED DIRECT INJECTION (GTDI) - ILLUMINATED MALFUNCTION INDICATOR LAMP (MIL) - LACK OF POWER - DTC P0299	TSB 16-0122

FORD:

2016 Explorer

ISSUE

Some 2016 Explorer 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. Inspect the turbocharger wastegate actuator rod for proper engagement to the wastegate lever. Is the turbocharger wastegate actuator rod properly attached and the retaining clip in place?
   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 undershield. Refer to Workshop Manual (WSM), Section 501-02.
4. Remove and discard the upper turbocharger mounting nuts. (Figure 1)

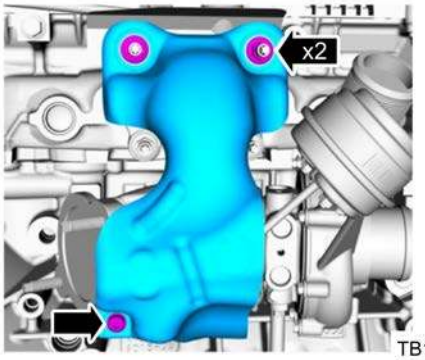


Figure 1 - Article 16-0122

5. Remove the lower turbocharger heat shield retaining bolt. (Figure 1)
6. Position the turbocharger heat shield aside.
   a. It is not necessary to remove the turbocharger coolant lines to position the heat shield aside.
7. Reconnect the turbocharger wastegate actuator rod and install a new retaining clip. (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 supercede this information with updates.The most recent information is available through Ford Motor Company's on-line technical resources.

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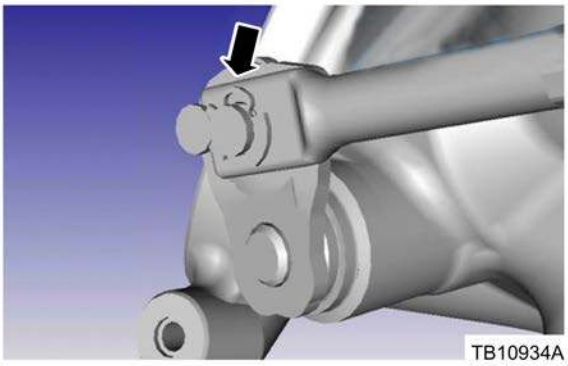


Figure 2 - Article 16-0122

a. For front wheel drive (FWD) vehicles access the turbocharger wastegate actuator rod from underneath the vehicle.

b. For all wheel drive (AWD) vehicles remove the right front wheel and tire. Refer WSM, Section 204-04. Access the turbocharger wastegate actuator rod through the wheel opening.

8. 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).

9. Install the engine undershield. Refer to WSM, Section 501-02.

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

OPERATION	DESCRIPTION	TIME
160122A	2016 Explorer FWD 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)	0.5 Hr.
160122B	2016 Explorer AWD 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)	0.6 Hr.

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
6K682	39