1.5L GTDI - LOW COOLANT - WHITE EXHAUST SMOKE AND/OR ILLUMINATED MALFUNCTION INDICATOR LAMP (MIL) - MULTIPLE DTCS	TSB 16-0130

FORD:

2014-2017 Fusion

2017 Escape

ISSUE

Some 2014-2017 Fusion and 2017 Escape vehicles equipped with a 1.5L Gasoline Turbocharged Direct Injection (GTDI) engine may exhibit low coolant, white exhaust smoke and an illuminated MIL if diagnostic trouble codes (DTCs) P0217, P300, P0301, P0302, P0303, P0304, P0316 and/or P1299 are present. This condition may be due to an intake manifold bolt backing out causing damage to the charge air cooler (CAC).

ACTION

Follow the Service Procedure steps to correct the condition

SERVICE PROCEDURE

1. Check engine coolant level. Refer to Workshop Manual (WSM), Section 303-03. Does the vehicle have a low coolant level?
   a. Yes - proceed to Step 3.
   b. No - proceed to Step 2.
2. Connect the Ford Integrated Diagnostic System (IDS) service tool or equivalent scan tool and check for DTCs. Does the powertrain control module (PCM) contain any of the following DTCs P0217, P0300, P0301, P0302, P0303, P0304, P0316 and/or P1299?
   a. Yes - proceed to Step 3.
   b. No - this article does not apply. Refer to WSM, Section 303-00 for normal diagnostics.
3. Pressure test the cooling system. Refer to WSM, Section 303-03. Does the pressure remain constant for 2 minutes?
   a. Yes - this article does not apply. Refer to WSM, Section 303-00 for normal diagnostics.
   b. No - proceed to Step 4.
4. Using hose pinch pliers, pinch off CAC coolant inlet and outlet hoses. (Figure 1)



Figure 1 - Article 16-0130

5. Pressure test the cooling system. Does the pressure remain constant for 2 minutes?

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.

a. Yes - proceed to Step 6.

b. No - this article does not apply. Refer to WSM, Section 303-00 for normal diagnostics.

6. Remove the CAC. Refer to WSM, Section 303-12.

7. Does the CAC show damage from bolt contact? (Figure 2)

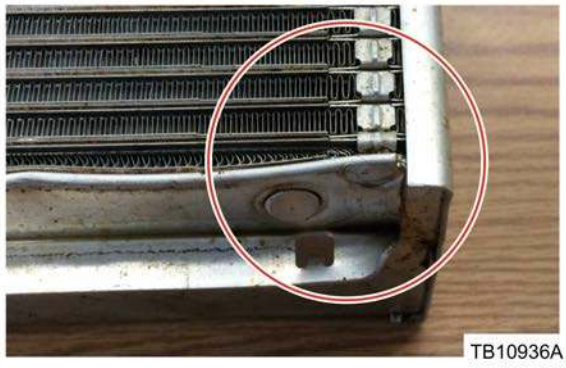


Figure 2 - Article 16-0130

a. Yes - proceed to Step 8.

b. No - replace the CAC. Refer to WSM, Section 303-12.

8. Replace the intake manifold and CAC. Refer to WSM, Section 303-01.

PART NUMBER	PART NAME
DS7Z-9424-C	Intake Manifold - 2014-2017 Fusion
GS7Z-8620-A	Stretchy Belt - 2014-2017 Fusion
W708728-442	Engine Mount Bolt - 2014-2017 Fusion (2 Req)
W719807-S442	Engine Mount Nut - 2014-2017 Fusion (3 Req)
DS7Z-9424-J	Intake Manifold – 2017 Escape
F1EZ-8620-A	Stretchy Belt - 2017 Escape
5F93-4682-AA	Rear Driveshaft Bolt - 2017 Escape (6 Req)
W716136-S442	Engine Mount Bolt - 2017 Escape (2 Req)
W520214-S440	Engine Mount Nut - 2017 Escape (3 Req)
W520103-S403	Exhaust Nut - All (2 Req)
DS7Z-9439-A	Intake Manifold Gasket - All
DS7Z-9L438-A	Charge Air Cooler Gasket - All
DS7Z-9E936-A	Throttle Body Gasket - All
DS7Z-6K775-A	Charge Air Cooler - All
CV6Z-9450-D	Exhaust Gasket - All
DS7Z-19B596-A	Air Conditioning O-Rings -All
VC-3-B	Motorcraft® Orange Concentrated Antifreeze/Coolant

OPERATION	DESCRIPTION	TIME
160130A	2017 Escape 4X4 1.5L GTDI: Diagnose And Replace The CAC Following The Service Procedure (Do Not Use With Any Other Labor Operations)	3.0 Hrs.
160130B	2017 Escape 4X4 1.5L GTDI: Diagnose, Replace The Intake Manifold And The CAC Following The Service Procedure (Do Not Use With Any Other Labor Operations)	5.1 Hrs.
160130C	2017 Escape 4X2 1.5L GTDI: Diagnose And Replace The CAC Following The Service Procedure (Do Not Use With Any Other Labor Operations)	2.8 Hrs.
160130D	2017 Escape 4X2 1.5L GTDI: Diagnose, Replace The Intake Manifold And The CAC Following The Service Procedure (Do Not Use With Any Other Labor Operations)	4.9 Hrs.
160130E	2014-2017 Fusion 1.5L GTDI: Diagnose And Replace The CAC Following The Service Procedure (Do Not Use With Any Other Labor Operations)	3.0 Hrs.
160130F	2014-2017 Fusion 1.5L GTDI: Diagnose, Replace The Intake Manifold And The CAC Following The Service Procedure (Do Not Use With Any Other Labor Operations)	4.3 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
9424	24