

THIS TSB HAS BEEN SUPERSEDED OR DEACTIVATED



TECHNICAL SERVICE BULLETIN

2.0L EcoBoost - Low Coolant, White Exhaust Smoke And/Or Illuminated MIL

19-2172

12 June 2019

Model:

Ford
2015-2018 Edge
2015-2019 Escape
2015-2019 Fusion
Lincoln
2015-2019 MKC
2015-2019 MKZ

Issue: Some 2015-2018 Edge vehicles, 2015-2019 Fusion/MKZ vehicles built on or before 8-May-2019, 2015-2019 Escape vehicles built on or before 15-May-2019 and 2015-2019 MKC vehicles built on or before 17-Apr-2019 equipped with a 2.0L EcoBoost engine may exhibit a low coolant level, white exhaust smoke and/or a runs rough condition with or without an illuminated malfunction indicator lamp (MIL). Diagnostic trouble codes (DTCs) may include P0300, P0301-P0304, P0316, P0217, P1285 and/or P1299 stored in powertrain control module (PCM). This may be due to coolant intrusion into the cylinder. To correct the condition, follow the Service Procedure steps to replace the long block engine assembly.

Action: Follow the Service Procedure steps to correct the condition on vehicles that meet all of the following criteria:

- One of the following vehicles:
 - 2015-2018 Edge
 - 2015-2019 Fusion/MKZ built on or before 8-May-2019
 - 2015-2019 Escape built on or before 15-May-2019
 - 2015-2019 MKC built on or before 17-Apr-2019
- 2.0L EcoBoost engine
- Low coolant level, white exhaust smoke and/or a runs rough condition with or without an illuminated MIL

Parts

Part Number	Description	Quantity
J2GZ-6006-F	Engine Long Block (2015-2018 All Models)	1
J2GZ-6006-E	Engine Long Block (2019 All Models)	1
EJ7Z-9448-B	Turbo Gasket (All Models)	1
BE8Z-6731-AC	Oil Filter Kit (All Models)	1
	Subframe Bolts (Edge/Fusion/MKZ)	1

W716457-S439		
7N5Z-00812-A	Subframe Bolts (Escape/MKC)	2
W713095-S403	Turbo Heat Shield Nuts (All Models)	1
W520103-S442	Tailpipe Fastener (Escape/MKC/Fusion/MKZ Only)	1
W714265-S442	Catalytic Converter Fastener (All Models)	1
CV6Z-9450-E	Tailpipe Gasket (All Models)	1
EJ7Z-6L612-A	Turbo To Catalytic Converter Gasket (All Models)	1
W713212-S300	Turbo Coolant Tube Washers (All Models)	1
FT4Z-6N652-D	Turbo Coolant Tube O-Ring (All Models)	1
F2GZ-6K679-A	Turbo Oil Supply Tube Washers (Edge)	1
W715323-S300	Turbo Oil Supply Tube Washers (Escape/MKC/Fusion/MKZ)	1
BB5Z-6C683-A	Turbocharger Oil Filter (All Models)	1
EJ7Z-6N652-A	Turbo Oil Return Tube Gasket (All Models)	1
FT4Z-6N652-E	Turbo Oil Return Tube O-ring (All Models)	1
W520214-S440	Engine Mount Nuts (All Models)	Fusion/MKZ: 3, Escape/MKC: 4, Edge: 2
W717674-S439	Engine Mount Bolt (All Models)	1
W710807-S442	Engine Mount Nut (All Models)	1
W714878-S439	Steering Column Fastener (2015-2016 Fusion/MKZ Only)	1
W712961-S450B	Steering Column Fastener (Edge And 2017-2019 Fusion/MKZ Only)	1
W711137-S442	Steering Column Fastener (Escape/MKC)	1
5F9Z-4682-AA	PTU Bolt And Washer Assembly (AWD Only)	Escape/MKC/Fusion/MKZ: 6, Edge: 3
F2GZ-4682-A	RDU Bolt And Washer Assembly (Edge AWD Only)	3
W712154-S439	Center Bearing Fastener (Fusion/MKZ/Edge AWD Only)	1
W711806-S442	Center Bearing Fastener, Bracket To Body (Escape/MKC Only)	1
		1

W500020-S442	Center Bearing Fastener, Bracket To Center Bearing (Escape/MKC Only)	
W712503-S440	Stabilizer Bar Fastener (Fusion/MKZ/Edge)	2
W715135-S440	Stabilizer Bar Fastener (Escape/MKC)	1
W715623-S439	Front Brake Caliper Bolts (Fusion/MKZ/Edge)	1
W714753-S442	Front Brake Caliper Bolts (Escape/MKC)	1
W715295-S439	Shock Mount Bolt (Edge Only)	1
W715490-S442	Shock Mount Bolt (Escape/MKC Only)	1
W520216-S440	Shock Mount Nut (Edge Only)	1
DL3Z-19B596-B	A/C Compressor Gasket And O-Ring (Escape/MKC/Edge, 2016-2019 Fusion/MKZ Built On Or After 5-Apr-2016)	1
9W7Z-19B596-B	A/C Compressor Gasket And O-Ring (2015-2016 Fusion/MKZ Built On Or Before 4-Apr-2016)	1
DS7Z-19B596-A	A/C Compressor Gasket And O-Ring (All Models)	1
CCPZ-3B477-B	Wheel Bearing Hub Nut (Fusion/MKZ/Edge)	2
CCPZ-3B477-G	Wheel Bearing Hub Nut (Escape/MKC FWD)	2
CCPZ-3B477-C	Wheel Bearing Hub Nut (Escape/MKC AWD)	2
W716075-S442	Ball Joint Pinch Bolt (Escape/MKC)	1
W520415-S442	Ball Joint Pinch Nut (Escape/MKC)	1
W500545-S439	Ball Joint Pinch Bolt (Fusion/MKZ/Edge)	Fusion/MKZ: 1, Edge: 2
W520214-S442	Lower Ball Joint Nut (Fusion/MKZ)	2
W520214-S440	Ball Joint Pinch Nut (Edge)	1
YS4Z-3N324-AA	Halfshaft Retaining Strap (Escape/MKC)	1
4S4Z-3N324-AA	Halfshaft Retaining Strap (Fusion/MKZ/Edge)	1
DG9Z-7G273-B	Halfshaft Washer (All Models)	1
W520102-S442	Halfshaft Retaining Strap Nuts (All Models)	1

CN1Z-7H424-B	Intermediate Shaft Seal (AWD Only)	1
W500635-S439	Upper PTU Bolts (Escape Built On Or Before 20-Sep-2016)	5
W718250-S439	Upper PTU Bolts (AWD Only)	1
BB5Z-1S177-C	Halfshaft Seal (FWD)	1
9L8Z-1177-C	Halfshaft Seal (AWD)	1
CV6Z-7086-A	PTU Compression Seal (AWD Only)	1
BB5Z-4B422-C	Halfshaft Retaining Circlip (All Models)	1
W718507-S439	Transmission Support Insulator Bolts (Edge Only)	1
W520205-S440	Transmission Support Insulator Nuts (Edge Only)	1
W716200-S437	Transmission Fluid Cooler Tube Bolts (Edge Only)	1
W712146-S437	Transmission Fluid Cooler Tube Bolts (Fusion/MKZ/Edge Only)	1
W520215-S440	Tie Rod End Nut (Fusion/MKZ/Edge)	1
W520203-S442	Tie Rod End Nut (Escape/MKC)	1
XO-5W30-Q1SP	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)	6
CXO-5W30-LSP6	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)	6
VC-3-B	Motorcraft® Orange Concentrated Antifreeze/Coolant (All Markets Except Canada)	1.1
CVC-3-B2	Motorcraft® Orange Concentrated Antifreeze/Coolant (Canada Only)	1.1
TA-26	Motorcraft® Threadlock 262	1
Replace As Necessary		
CM5Z-12029-K	Ignition Coil	4
AA5Z-9C587-A	High Pressure Pump Roller Tappet	1
EJ7Z-9276-B	High Pressure Pump Drive Gasket	1
BB5Z-2A572-B	Brake Vacuum Pump Gasket	1
CJ5Z-9439-A	Intake Manifold Gasket	1
W704474-S437	Turbo Stud	1
W712458-S900	Turbo To Exhaust Stud	1

F2GZ-63600A58-A	Intermediate Shaft Bushing (AWD Only)	1
-----------------	---------------------------------------	---

Warranty Status: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage. Warranty/ESP coverage limits/policies 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. For repairs covered by the New Vehicle Limited Warranty, completion of the procedure outlined in this TSB does not require obtaining Prior Approval or completion of a Cost Cap.

Labor Times

Description	Operation No.	Time
2015-2019 MKC AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172A	14.7 Hrs.
2015-2019 MKC FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172B	13.6 Hrs.
2015-2019 Escape 4X4 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172C	15.3 Hrs.
2015-2019 Escape 4X2 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172D	13.6 Hrs.
2015-2018 Edge AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172E	15.0 Hrs.
2015-2018 Edge FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172F	13.3 Hrs.
2015-2019 Fusion/MKZ AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172G	14.9 Hrs.
2015-2019 Fusion/MKZ FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	DR192172H	12.9 Hrs.
Vehicles Without Lane Departure: Additional Time To Check And Correct Front Toe (Can be Claimed With Operation A-H Only)	DR192172J	0.6 Hrs.
Vehicles With Lane Departure: Additional Time To Check And Correct Front Toe (Can be Claimed With Operation A-H Only)	DR192172K	0.8 Hrs.

Repair/Claim Coding

Causal Part:	6009
Condition Code:	D8

Service Procedure

For repairs covered by the New Vehicle Limited Warranty, completion of the procedure outlined in this TSB does not require obtaining Prior Approval or completion of a Cost Cap.

- With the engine at normal operating temperature, pressurize the cooling system to 138 kPa (20 psi) and hold for 5 hours. Refer to the coolant pressure test in Workshop Manual (WSM), Section 303-03A and check for cooling system combustion gases.
- Did coolant system pressure drop more than 27.57 kPa (4 psi) after 5 hours?
 - Yes - proceed to Step 3.
 - No - this article does not apply. Refer to the Powertrain Control/Emission Diagnosis (PC/ED) Manual for normal diagnostics.

3. Remove the spark plugs and, using a borescope or equivalent, inspect and determine if coolant has entered the cylinders.
4. Is coolant present in any cylinder?
 - (1). Yes - remove the engine and replace the long block. Refer to WSM, Section 303-01A.
 - (2). No - this article does not apply. Refer to WSM, Section 303-01 for normal diagnostics.

© 2019 Ford Motor Company
All rights reserved.

NOTE: The information 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 or Lincoln 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.