



U.S. Department  
of Transportation  
**National Highway  
Traffic Safety  
Administration**

1200 New Jersey Avenue SE.  
Washington, DC 20590

March 10, 2025

The Honorable Eleanor Holmes Norton  
Member, U.S. House of Representatives  
1300 Pennsylvania Avenue, NW, Suite M-1000  
Washington, DC 20004

NEF-109 rrr  
Ref. No. 11646418

Dear Representative Holmes Norton:

Thank you for the letter on behalf of your constituent, [REDACTED], concerning his model year (MY) 2017 Ford Edge vehicle. Your letter was forwarded to the National Highway Traffic Safety Administration (NHTSA). NHTSA's mission is to save lives, prevent injuries, and reduce economic costs due to road traffic crashes, through education, research, safety standards, and enforcement activity. I am pleased to respond.

We appreciate the report you provided. Among other enforcement activities, NHTSA continuously monitors available information to identify potential safety defect trends. As such, reports from motorists are a very important source of information for us. In his report, [REDACTED] states that he experienced a catastrophic engine failure due to an internal coolant leak. He believes this is a known defect in MY 2017 Ford Edge vehicles and therefore requests assistance from NHTSA.

In response to [REDACTED] report, we examined our database and other relevant information to identify whether safety defect trends exist regarding engine failures due to internal coolant leaks in MY 2017 Ford Edge vehicles. At this time, NHTSA has not identified sufficient evidence to open a safety defect investigation or to initiate a safety recall. We entered [REDACTED] information into NHTSA's database, where it will be used with other reports to identify any safety defect trends. [REDACTED] can learn more about NHTSA's investigation and recall process on our website at [https://www.nhtsa.gov/sites/nhtsa.gov/files/2024-11/MVSDefectsandRecallsUpdate\\_112124\\_v1a\\_tag.pdf](https://www.nhtsa.gov/sites/nhtsa.gov/files/2024-11/MVSDefectsandRecallsUpdate_112124_v1a_tag.pdf).

While researching [REDACTED] problem we identified several Ford Technical Service Bulletins (TSBs) that may address the engine problem he experienced. The latest bulletin is TSB 22-2229 (June 9, 2022, enclosed), which instructs dealers to remedy internal engine coolant leak issues in MY 2015 through MY 2018 Ford Edge vehicles by replacing the engine long block. Please note that the issuance of a TSB by a manufacturer does not mean that a vehicle contains a safety-related defect in accordance with our statute, the National Traffic and Motor Vehicle Safety Act. Manufacturers may issue these types of actions at their discretion to address a known problem unrelated to motor vehicle safety and to restore customer satisfaction. While NHTSA continuously monitors manufacturer TSBs to identify potential vehicle safety issues for which a

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recall is necessary, the agency does not otherwise regulate TSBs. Thus, the manufacturer remains responsible for all aspects of TSBs, including the nature and scope of the repair and the vehicle make, model, and model years at issue.

We encourage [REDACTED] to continue to work with Ford and his local dealer to explore the potential for an amicable resolution to his problem. He may ask his dealership for a meeting with a Ford representative regarding his problem. [REDACTED] may also consider contacting his local Consumer Protection Agency or the District of Columbia Attorney General's Office regarding his problem and rights under state law.

I hope this information is helpful. If you have any questions, please feel free to contact me at [david.bell@dot.gov](mailto:david.bell@dot.gov).

Sincerely,

[REDACTED]

David Bell  
Director of Governmental  
and Legislative Affairs

Enclosure



# TECHNICAL SERVICE BULLETIN

## 2.0L EcoBoost - Coolant In Cylinders, White Exhaust Smoke And/Or Illuminated MIL

22-2229

09 June 2022

This bulletin supersedes 22-2133.

### Model:

<b>Ford</b> 2015-2018 Edge	
2017-2019 Escape	Built on or before 16-May-2019
2017-2019 Fusion	Built on or before 8-Apr-2019
<b>Lincoln</b> 2017-2019 MKC	Built on or before 18-Apr-2019
2017-2019 MKZ	Built on or before 8-Apr-2019

### Summary

This article supersedes TSB 22-2133 to update the Parts List.

**Issue:** Some 2015-2018 Edge and 2017-2019 Fusion/MKZ/Escape/MKC vehicles 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 to replace the long block engine assembly.

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

- One of the following vehicles:
  - 2015-2018 Edge
  - 2017-2019 Fusion/MKZ built on or before 8-Apr-2019
  - 2017-2019 Escape built on or before 16-May-2019
  - 2017-2019 MKC built on or before 18-Apr-2019
- 2.0L EcoBoost engine
- Presence of coolant in the engine cylinders, white exhaust smoke and/or a runs rough condition (with or without an illuminated MIL)

### Parts

#### Edge - Required Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
6006	1	Engine Long Block - Refer To The Parts Catalog For The VIN Specific Application	1	1
KX6Z-8678-A	1	Accessory Drive Belt Idler Pulley	1	1
J2GZ-6079-C	1	Engine Long Block Service Kit	1	1
W520214-S440	1	Ball Joint Pinch Nut	2	2
W704474-S437	1	Turbo Stud	4	4
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)		
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)		

XO-5W30-Q1SP	As Needed	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)		
CXO-5W30-LSP6	As Needed	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)		
TA-26	As Needed	Motorcraft® Threadlock 262		

## Parts

### Edge - Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue
1S7Z-6375-D	If Needed	Flexplate	1
1S7Z-6B752-AA	If Needed	Crankcase Oil Vent Separator Gasket	1
3M4Z-8255-A	If Needed	Thermostat Gasket	1
AA5Z-9C587-A	If Needed	High Pressure Pump Roller Tappet	1
BB5Z-2A572-B	If Needed	Brake Vacuum Pump Gasket	1
CJ5Z-8255-A	If Needed	Coolant Outlet Adapter O-ring	1
CJ5Z-9439-A	If Needed	Intake Manifold Gasket	4
CM5Z-12029-K	If Needed	Ignition Coil	1
EJ7Z-9276-B	If Needed	High Pressure Pump Drive Gasket	1
F2GZ-63600A58-A	If Needed	Intermediate Shaft Bushing (AWD Only)	1
W712458-S900	If Needed	Turbo To Exhaust Stud	4

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

If Needed indicates the part is not mandatory.

**NOTE: In the event that an Engine Long Block Service Kit is not available or temporarily on backorder, refer to the applicable Long Block Service Kit parts list in this article to order parts individually.**

## Parts

### Edge - Information Only - The Following Individual Parts Are Contained In Long Block Service Kit J2GZ-6079-C

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity	Note
BE8Z-6731-AD	-	Engine Oil Filter	1	1	
EJ7Z-9J323-B	-	High Pressure Fuel Tube	1	1	
W718059-S442	-	High Pressure Fuel Pump Fasteners	2	2	
AA5Z-9E583-A	-	High Pressure Fuel Pump O-ring	1	1	
W500313-S437	-	Fuel Rail Fasteners	4	5	
BG9Z-9229-A	-	Fuel Injector Teflon Seals/O-rings		1 kit	Part number will service 4 fuel injectors
DS7Z-19B596-A	-	A/C Compressor Gasket And O-Ring	1	1	
9W7Z-19B596-A	-	A/C Compressor Gasket And O-Ring	1	1	

W714265-S442	-	Catalytic Converter Fastener	4	2	
EJ7Z-9448-B	-	Turbocharger Gasket	1	1	
EJ7Z-6L612-A	-	Turbocharger To Catalytic Converter Gasket	1	1	
FT4Z-6N652-D	-	Turbocharger Coolant Tube O-Ring	1	5	
W713212-S300	-	Turbocharger Coolant Tube Washers	2	2	
F2GZ-6K679-A	-	Turbocharger Oil Supply Tube Washers	1	1	
W715323-S300	-	Turbocharger Oil Supply Tube Washers	2	2	
BB5Z-6C683-A	-	Turbocharger Oil Supply Filter	1	1	
FT4Z-6N652-E	-	Turbocharger Oil Return Tube O-ring	1	1	
EJ7Z-6N652-A	-	Turbocharger Oil Return Tube Gasket	1	1	
W713095-S450	-	Turbocharger Heat Shield Nuts	4	4	
W520214-S440	-	Engine Mount Nut	2	3	
W717674-S439	-	Engine Mount Bolt	4	2	
W710807-S442	-	Engine Mount Nut	4	1	
4S4Z-3N324-AA	-	Halfshaft Retaining Strap	1	1	
W520102-S442	-	Halfshaft Retaining Strap Nut	4	2	
W790063-S900	-	Driveshaft Rear Flange Bolts And Washer	3	3	
CV6Z-9450-E	-	Tailpipe Gasket	1	1	
CCPZ-3B477-B	-	Wheel Bearing Hub Nut	1	1	
W520216-S440	-	Shock Mount Nut	4	4	
W715295-S439	-	Shock Mount Bolt	4	4	
W715618-S437	-	Torque Converter Nuts	4	4	
1L5Z-6379-AA	-	Flex Plate Fasteners	4	6	
W500545-S439	-	Ball Joint Pinch Bolt	4	1	
W712503-S440	-	Stabilizer Bar Fastener	1	2	
W712961-S450B	-	Steering Column Fastener	1	1	
W715623-S439	-	Front Brake Caliper Bolts	4	4	
W716457-S439	-	Subframe Bolts	4	4	
W716841-S900	-	Engine Dowel (Engine To Transmission Interface)	4	2	
9L8Z-6G004-E	-	CHT2 Sensor	1	1	
CN1Z-7H424-B	-	Intermediate Shaft Seal (AWD Only)	1	1	
CV6Z-7086-B	-	PTU Compression Seal (AWD Only)	1	1	
F2GZ-4682-B	-	RDU Bolt And Washer Assembly (AWD Only)	1	3	

W712154-S439	-	Center Bearing Fastener (AWD Only)	4	2	
W718250-S439	-	Upper PTU Bolt (AWD Only)	5	5	

Unit of Issue in the above section refers to the number of individual pieces included if ordering a service part number package (not applicable to the contents of the long block service kit).

Piece Quantity refers to the total number of individual pieces required to repair the vehicle (what is included in the long block service kit)

## Parts

### Escape - Required Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
6006	1	Engine Long Block - Refer To The Parts Catalog For The VIN Specific Application	1	1
KX6Z-8678-A	1	Accessory Drive Belt Idler Pulley	1	1
J2GZ-6079-A	1	Engine Long Block Service Kit	1	1
W704474-S437	1	Turbo Stud	4	4
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)		
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)		
XO-5W30-Q1SP	As Needed	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)		
CXO-5W30-LSP6	As Needed	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)		
TA-26	As Needed	Motorcraft® Threadlock 262		

## Parts

### Escape - Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue
1S7Z-6375-C	If Needed	Flexplate	1
1S7Z-6B752-AA	If Needed	Crankcase Oil Vent Separator Gasket	1
3M4Z-8255-A	If Needed	Thermostat Gasket	1
AA5Z-9C587-A	If Needed	High Pressure Pump Roller Tappet	1
BB5Z-2A572-B	If Needed	Brake Vacuum Pump Gasket	1
CJ5Z-8255-A	If Needed	Coolant Outlet Adapter O-ring	1
CJ5Z-9439-A	If Needed	Intake Manifold Gasket	4
CM5Z-12029-K	If Needed	Ignition Coil	1
EJ7Z-9276-B	If Needed	High Pressure Pump Drive Gasket	1
F2GZ-63600A58-A	If Needed	Intermediate Shaft Bushing (AWD Only)	1
W712458-S900	If Needed	Turbo To Exhaust Stud	4

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

If Needed indicates the part is not mandatory.

**NOTE: In the event that an Engine Long Block Service Kit is not available or temporarily on backorder, refer to the applicable Long Block Service Kit parts list in this article to order parts individually.**

## Parts

### Escape/MKC - Information Only - The Following Individual Parts Are Contained In Long Block Service Kit J2GZ-6079-A

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity	Note
BE8Z-6731-AD	-	Engine Oil Filter	1	1	
EJ7Z-9J323-B	-	High Pressure Fuel Tube	1	1	
W718059-S442	-	High Pressure Fuel Pump Fasteners	2	2	
AA5Z-9E583-A	-	High Pressure Fuel Pump O-ring		1	
BG9Z-9229-A	-	Fuel Injector Teflon Seals/O-rings		1 kit	Part number will service 4 fuel injectors
W500313-S437	-	Fuel Rail Fasteners	4	5	
DL3Z-19B596-B	-	A/C Compressor Gasket And O-Ring	1	1	
DS7Z-19B596-A	-	A/C Compressor Gasket And O-Ring	1	1	
EJ7Z-6N652-A	-	Turbo Oil Return Tube Gasket	1	1	
W714265-S442	-	Catalytic Converter Fastener	4	2	
EJ7Z-6L612-A	-	Turbocharger To Catalytic Converter Gasket	1	1	
EJ7Z-9448-B	-	Turbocharger Gasket	1	1	
FT4Z-6N652-D	-	Turbocharger Coolant Tube O-Ring	1	5	
W713212-S300	-	Turbocharger Coolant Tube Washers	2	2	
BB5Z-6C683-A	-	Turbocharger Oil Supply Filter	1	1	
W715323-S300	-	Turbocharger Oil Supply Tube Washers	2	2	
FT4Z-6N652-E	-	Turbocharger Oil Return Tube O-ring	1	1	
W713095-S450	-	Turbocharger Heat Shield Nuts	4	4	
YS4Z-3N324-AA	-	Halfshaft Retaining Strap	1	1	
W520102-S442	-	Halfshaft Retaining Strap Nut	4	2	
CCPZ-	-	Wheel Bearing Hub Nut	1	1	

3B477-C		(Escape AWD)			
CCPZ-3B477-G	-	Wheel Bearing Hub Nut (Escape FWD/All MKC)	1	1	
W520103-S403	-	Tailpipe Fastener	4	2	Kit includes this item for both Escape and MKC even though the parts catalog may have another part number for MKC
CV6Z-9450-E	-	Tailpipe Gasket	1	1	
7N5Z-00812-A	-	Subframe Bolts	1	2	
W520113-S442	-	Sway Bar Link Nut (M10 x 1.5 mm) (Escape Only)	4	2	
W520415-S442	-	Ball Joint Pinch Nut	4	1	
W711137-S442	-	Steering Column Fastener	4	1	
W714753-S442	-	Front Brake Caliper Bolts	4	4	
W715135-S440	-	Stabilizer Bar Fastener (M10 x 1.25 mm)	4	2	
W715490-S442	-	Shock Mount Bolt	4	2	
W715618-S437	-	Torque Converter Nuts	4	4	
1L5Z-6379-AA	-	Flex Plate Fasteners	4	6	
W520204-S442	-	Engine Mount Nut	4	3	
W520214-S440	-	Engine Mount Nut (Escape Only)	2	3	
W716136-S442	-	Engine Mount Bolt	4	2	
W716516-S442	-	Engine Mount Bolt/Stud Assembly Fastener (MKC Only)	4	2	
W716841-S900	-	Engine Dowel (Engine To Transmission Interface)	4	2	
9L8Z-6G004-E	-	CHT2 Sensor	1	1	
W718250-S439	-	Upper PTU Bolt (AWD Only)	5	5	
5F9Z-4682-AA	-	PTU Bolt And Washer Assembly (AWD Only)	1	3	
CN1Z-7H424-B	-	Intermediate Shaft Seal (AWD Only)	1	1	
CV6Z-7086-B	-	PTU Compression Seal (AWD Only)	1	1	
W716075-S442	-	Ball Joint Pinch Bolt (AWD Only)	4	1	

Unit of Issue in the above section refers to the number of individual pieces included if ordering a service part number package (not applicable to the contents of the long block service kit).

Piece Quantity refers to the total number of individual pieces required to repair the vehicle (what is included in the long block service kit)

## Parts

### MKC - Required Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
6006	1	Engine Long Block - Refer To The Parts Catalog For The VIN Specific Application	1	1
KX6Z-8678-A	1	Accessory Drive Belt Idler Pulley	1	1
J2GZ-6079-A	1	Engine Long Block Service Kit	1	1
W704474-S437	1	Turbo Stud	4	4
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)		
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)		
XO-5W30-Q1SP	As Needed	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)		
CXO-5W30-LSP6	As Needed	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)		
TA-26	As Needed	Motorcraft® Threadlock 262		

## Parts

### MKC - Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue
1S7Z-6375-C	If Needed	Flexplate	1
1S7Z-6B752-AA	If Needed	Crankcase Oil Vent Separator Gasket	1
3M4Z-8255-A	If Needed	Thermostat Gasket	1
AA5Z-9C587-A	If Needed	High Pressure Pump Roller Tappet	1
BB5Z-2A572-B	If Needed	Brake Vacuum Pump Gasket	1
CJ5Z-8255-A	If Needed	Coolant Outlet Adapter O-ring	1
CJ5Z-9439-A	If Needed	Intake Manifold Gasket	4
CM5Z-12029-K	If Needed	Ignition Coil	1
EJ7Z-9276-B	If Needed	High Pressure Pump Drive Gasket	1
F2GZ-63600A58-A	If Needed	Intermediate Shaft Bushing (AWD Only)	1
W712458-S900	If Needed	Turbo To Exhaust Stud	4

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

If Needed indicates the part is not mandatory.

## Parts

## Fusion - Required Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
6006	1	Engine Long Block - Refer To The Parts Catalog For The VIN Specific Application	1	1
KX6Z-8678-A	1	Accessory Drive Belt Idler Pulley	1	1
J2GZ-6079-B	1	Engine Long Block Service Kit	1	1
W520214-S442	2	Lower Ball Joint Nut	1	2
W520214-S442	3	Engine Mount Nut	1	3
W704474-S437	1	Turbo Stud	4	4
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)		
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)		
XO-5W30-Q1SP	As Needed	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)		
CXO-5W30-LSP6	As Needed	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)		
TA-26	As Needed	Motorcraft® Threadlock 262		

## Parts

### Fusion - Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue
1S7Z-6375-D	If Needed	Flexplate	1
1S7Z-6B752-AA	If Needed	Crankcase Oil Vent Separator Gasket	1
3M4Z-8255-A	If Needed	Thermostat Gasket	1
AA5Z-9C587-A	If Needed	High Pressure Pump Roller Tappet	1
BB5Z-2A572-B	If Needed	Brake Vacuum Pump Gasket	1
CJ5Z-8255-A	If Needed	Coolant Outlet Adapter O-ring	1
CJ5Z-9439-A	If Needed	Intake Manifold Gasket	4
CM5Z-12029-K	If Needed	Ignition Coil	1
EJ7Z-9276-B	If Needed	High Pressure Pump Drive Gasket	1
W712458-S900	If Needed	Turbo To Exhaust Stud	4

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

If Needed indicates the part is not mandatory.

**NOTE: In the event that an Engine Long Block Service Kit is not available or temporarily on backorder, refer to the applicable Long Block Service Kit parts list in this article to order parts individually.**

## Parts

### Fusion/MKZ - Information Only - The Following Individual Parts Are Contained In Long Block Service Kit J2GZ-6079-B

Service Part	Quantity	Description	Unit of	Piece	Note
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Number			Issue	Quantity	
BE8Z-6731-AD	-	Engine Oil Filter	1	1	
EJ7Z-9J323-B	-	High Pressure Fuel Tube	1	1	
W718059-S442	-	High Pressure Fuel Pump Fasteners	2	2	
AA5Z-9E583-A	-	High Pressure Fuel Pump O-ring	1	1	
BG9Z-9229-A	-	Fuel Injector Teflon Seals/O-rings		1 kit	Part number will service 4 fuel injectors
W500313-S437	-	Fuel Rail Fasteners	4	5	
DL3Z-19B596-B	-	A/C Compressor Gasket And O-Ring	1	1	
DS7Z-19B596-A	-	A/C Compressor Gasket And O-Ring	1	1	
W714265-S442	-	Catalytic Converter Fastener	4	2	
EJ7Z-6L612-A	-	Turbocharger To Catalytic Converter Gasket	1	1	
EJ7Z-6N652-A	-	Turbocharger Oil Return Tube Gasket	1	1	
FT4Z-6N652-E	-	Turbocharger Oil Return Tube O-ring	1	1	
BB5Z-6C683-A	-	Turbocharger Oil Supply Filter	1	1	
W715323-S300	-	Turbocharger Oil Supply Tube Washers	2	2	
FT4Z-6N652-D	-	Turbocharger Coolant Tube O-Ring	1	5	
W713212-S300	-	Turbocharger Coolant Tube Washers	2	2	
EJ7Z-9448-B	-	Turbocharger Gasket	1	1	
W713095-S450	-	Turbocharger Heat Shield Nuts	4	4	
W520103-S442	-	Tailpipe Fastener	4	2	
CV6Z-9450-E	-	Tailpipe Gasket	1	1	
W520214-S440	-	Engine Mount Nut	2	3	
W710807-S442	-	Engine Mount Nut	4	1	
W717674-S439	-	Engine Mount Bolt	4	2	
W716841-S900	-	Engine Dowel (Engine To Transmission Interface)	4	2	
CCPZ-3B477-B	-	Wheel Bearing Hub Nut	1	1	
W712503-S440	-	Stabilizer Bar Fastener	1	2	
W712961-S450B	-	Steering Column Fastener	1	1	
W714878-S439	-	Steering Shaft Bolt	4	1	
W715618-S437	-	Torque Converter Nuts	4	4	
1L5Z-6379-AA	-	Flex Plate Fasteners	4	6	
W715623-S439	-	Front Brake Caliper Bolts	4	4	
W500545-S439	-	Ball Joint Pinch Bolt	4	1	
W716457-S439	-	Subframe Bolts	4	4	
4S4Z-3N324-	-	Halfshaft Retaining Strap	1	1	

AA					
W520102-S442	-	Halfshaft Retaining Strap Nut	4	2	
DG9Z-7G273-B	-	Halfshaft Washer	1	2	
9L8Z-6G004-E	-	CHT2 Sensor	1	1	
W718250-S439	-	Upper PTU Bolt (AWD Only)	5	5	
CN1Z-7H424-B	-	Intermediate Shaft Seal (AWD Only)	1	1	
CV6Z-7086-B	-	PTU Compression Seal (AWD Only)	1	1	
W712154-S439	-	Center Bearing Fastener (AWD Only)	4	2	
5F9Z-4682-AA	-	PTU Bolt And Washer Assembly (AWD Only)	1	6	

Unit of Issue in the above section refers to the number of individual pieces included if ordering a service part number package (not applicable to the contents of the long block service kit).

Piece Quantity refers to the total number of individual pieces required to repair the vehicle (what is included in the long block service kit)

## Parts

### MKZ - Required Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
6006	1	Engine Long Block - Refer To The Parts Catalog For The VIN Specific Application	1	1
KX6Z-8678-A	1	Accessory Drive Belt Idler Pulley	1	1
J2GZ-6079-B	1	Engine Long Block Service Kit	1	1
W704474-S437	1	Turbo Stud	4	4
VC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)		
CVC-13-G	As Needed	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)		
XO-5W30-Q1SP	As Needed	Motorcraft® SAE 5W-30 Premium Synthetic Blend Motor Oil (All Markets Except Canada)		
CXO-5W30-LSP6	As Needed	Motorcraft® SAE 5W-30 Super Premium Motor Oil (Canada Only)		
TA-26	As Needed	Motorcraft® Threadlock 262		

## Parts

### MKZ - Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue
1S7Z-6375-D	If Needed	Flexplate	1
1S7Z-6B752-AA	If Needed	Crankcase Oil Vent Separator Gasket	1
3M4Z-8255-A	If Needed	Thermostat Gasket	1
AA5Z-9C587-A	If Needed	High Pressure Pump Roller Tappet	1
BB5Z-2A572-B	If Needed	Brake Vacuum Pump Gasket	1
CJ5Z-8255-A	If Needed	Coolant Outlet Adapter O-ring	1
CJ5Z-9439-A	If Needed	Intake Manifold Gasket	4

CM5Z-12029-K	If Needed	Ignition Coil	1
EJ7Z-9276-B	If Needed	High Pressure Pump Drive Gasket	1
W712458-S900	If Needed	Turbo To Exhaust Stud	4

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

If Needed indicates the part is not mandatory.

**Warranty Status:** Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool. For repairs covered by the NVLW, 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
2017-2019 MKC AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	222229A	14.8 Hrs.
2017-2019 MKC FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	-	13.7
2017-2019 Escape 4X4 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	-	15.5
2017-2019 Escape 4X2 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	-	13.7
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)	-	15.2
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)	-	13.4
2017-2019 Fusion/MKZ AWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	-	15
2017-2019 Fusion/MKZ FWD 2.0L EcoBoost: Diagnose And Replace The Engine Long Block (Do Not Use With Any Labor Operations Outside Of This Article)	-	13
Vehicles Without Lane Departure: Additional Time To Check And Correct Front Toe (Can be Claimed With Operation A-H Only)	-	0.6
Vehicles With Lane Departure: Additional Time To Check And Correct Front Toe (Can be Claimed With Operation A-H Only)	-	0.8

### Repair/Claim Coding

Causal Part:	6009
Condition Code:	d8

### Service Procedure

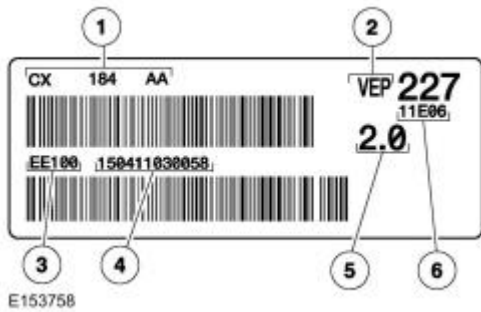
For repairs covered by the New Vehicle Limited Warranty, completion of the procedure outlined in this TSB does not require completion of a Cost Cap.

**NOTE:** In the event that an Engine Long Block Service Kit is not available or temporarily on backorder, refer to the applicable Long Block Service Kit parts list in this article to order parts individually.

1. For Edge/Escape vehicles, proceed to Step 3. For Fusion/MKZ/MKC vehicles, inspect the engine code information label located on the end of the cam cover. Refer to Figure 1 Callout 1 for the engine part number. Verify that the engine base part number matches the following requirements:

(1). Fusion/MKZ - engine base part number is 910

Figure 1



Item	Description
1	Engine part number

(2). MKC - engine base part number is 206

Figure 2



2. Does the engine base part number match the requirements listed in Step 1?

(1). Yes - proceed to Step 3.

(2). No - this article does not apply. Refer to the Powertrain Control/Emission Diagnosis (PC/ED) Manual for normal diagnostics.

3. 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.

4. Did coolant system pressure drop more than 27.57 kPa (4 psi) after 5 hours?

(1). Yes - proceed to Step 5.

(2). No - this article does not apply. Refer to the PC/ED Manual for normal diagnostics.

5. Remove the spark plugs. Using a borescope or equivalent, inspect and determine if coolant has entered the cylinders.

6. Is coolant present in any cylinder?

(1). Yes - remove the engine and replace the long block. Refer to WSM, Section 303-01.

**NOTE: Advise the customer that some odor may be present after the repair has been completed until the residual coolant dissipates from the exhaust.**

(2). No - this article does not apply. Refer to WSM, Section 303-01 for normal diagnostics.

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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.