



TECHNICAL SERVICE BULLETIN

No Upshift Past Second Gear, Unable To Achieve Third Gear Ratio, And/Or Illuminated MIL With DTCs P0757 And P2701

25-2423

23 September
2025

Model:

Ford 2024-2025 Expedition	Transmission: 10R80
2024-2025 Explorer	Transmission: 10R80/10R80 MHT
2024-2025 F-150	Transmission: 10R80/10R80 MHT
2024-2025 F-Super Duty	Transmission: 10R100
2024-2025 Mustang	Transmission: 10R80
2024-2025 Transit	Transmission: 10R80
Lincoln 2024-2025 Navigator	Transmission: 10R80

Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit at least one of the following conditions:

- No upshift past second gear
- Unable to achieve third gear ratio
- Illuminated MIL with DTCs P0757 and P2701

This may be due to a damaged SOWC.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to perform the SOWC directional test and replace the front support assembly (7A130) if necessary.

Parts - Front Support Replacement

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
BL8Z-7G199-A	2	2	1	Hybrid Drive Unit Feed Tube Seals (10R80 MHT)
HL3Z-7G091-F	5	5	1	Input Shaft Teflon Seals (F2)
HL3Z-7G199-A	1	1	1	Transmission Fluid Auxiliary Pump Tube Seal (10R80 If Equipped)
JL3Z-7A130-B	1	1	1	Front Support Assembly (10R80)
L1MZ-7A130-B	1	1	1	Front Support Assembly (10R80 MHT)
L1MZ-7J135-A	1	1	1	Transmission Fluid Auxiliary Pump Tube Seal (10R80 MHT)
LC3Z-7H223-AA	12	1	12	Front Support Assembly Bolt Washer Seals (10R80)

Parts - Front Support Replacement - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
7T4Z-7Z302-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Filter Seal

HL3Z-7A098-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Filter (10R80)
HL3Z-7A191-B	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Pan Gasket (10R80)
HL3Z-7J227-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Auxiliary Pump Tube O-Ring (10R80 If Equipped)
L1MZ-7A098-B	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Filter (10R80 MHT)
L1MZ-7F396-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Pan Gasket (10R80 MHT)
ML3Z-7A191-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Hybrid Drive Unit Gasket (10R80 MHT)

Parts - Front Support Replacement - Select One Of The Following If Needed

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
HL3Z-7A527-K	1	1	1	T-3 Shim 3.5-3.6 mm Selective
HL3Z-7A527-L	1	1	1	T-3 Shim 3.65-3.75 mm Selective
HL3Z-7A527-M	1	1	1	T-3 Shim 3.8-3.9 mm Selective
HL3Z-7A527-N	1	1	1	T-3 Shim 4.25-4.35 mm Selective
HL3Z-7A527-P	1	1	1	T-3 Shim 3.2-3.3 mm Selective
HL3Z-7A527-Q	1	1	1	T-3 Shim 3.05-3.15 mm Selective
HL3Z-7A527-R	1	1	1	T-3 Shim 3.35-3.45 mm Selective
HL3Z-7A527-S	1	1	1	T-3 Shim 3.95-4.05 mm Selective
HL3Z-7A527-T	1	1	1	T-3 Shim 4.1-4.2 mm Selective
HL3Z-7B066-AA	1	1	1	A Clutch Apply Plate 4.1-4.3 mm Selective
HL3Z-7B066-Z	1	1	1	A Clutch Apply Plate 4.4-4.6 mm Selective
HL3Z-7B066-Y	1	1	1	A Clutch Apply Plate 4.7-4.9 mm Selective
HL3Z-7B066-X	1	1	1	A Clutch Apply Plate 5.0-5.2 mm Selective
HL3Z-7B066-W	1	1	1	A Clutch Apply Plate 5.3-5.5 mm Selective

Parts - F-150 Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
7L1Z-4B496-C	2	2	1	CV Joint-To-Pinion Flange Cup Bolts & Retaining Straps (4WD)
HL3Z-5G221-B	1	1	1	Left Stick On Bellhousing Heat Shield (3.5L Oil To Air Cooler)
HL3Z-5G221-C	1	1	1	Right Stick On Bellhousing Heat Shield (3.5L Oil To Air Cooler)
JL1Z-7N134-A	1	1	1	Park Override Lever Bolt (If Equipped)
PL3Z-5C226-A	10R80 MHT Require 1 Piece, 10R80 3.5L Automatic	10R80 MHT Require 1,	1	Catalytic Converter Gasket

	Transmission Warming Unit Require 2 Pieces	10R80 Require 2		
ML3Z-6775-K	1	1	1	Self-Adhesive Heat Shield
N800594-S100	4 Or 8 Pieces (Flange Dependent)	1 Per Affected Joint	4	Driveshaft Flange To Flange Bolts (8 pieces For 4 Bolt Style Transmission Yoke)
RL3Z-6L612-B	1	1	1	Left Exhaust Manifold Gasket (10R80 MHT)
W500120-S439	4	1	4	Transmission Support Insulator Bolts (RWD 10R80 MHT)
W520113-S440	4	1	4	Stabilizer Bar Bracket Nuts
W520114-S442	4	1	4	Transmission Support Crossmember Nuts
W520514-S440	2.7L Require 2 Pieces, 3.5L/5.0L Require 4 Pieces	2.7L Require 2, 3.5L/5.0L Require 4	1	Left Catalytic Converter Nuts
W705443-S900	4	1	4	Catalytic Converter Nuts
W707753-S900	4	1	4	Exhaust Studs
W709771-S440	2	2	1	Transmission Mount Nuts
W711140-S901	3	3	1	Transmission Support Insulator Bolts (RWD)
W714418-S439	4	1	4	Transmission Support Crossmember Bolts
W714717-S439	2	1	4	Muffler Inlet Pipe Bolts (5.2L/10R80 MHT)
W715579-S439	2	1	4	Driveshaft Center Bearing Bolt (If Equipped With Two Piece Driveshaft)
W715618-S437	4	1	4	Torque Converter Nuts
W715798-S442	1	1	4	Transmission Fluid Cooler Tube Bracket Studbolt (5.2L/3.5L Oil To Air Cooler)
W716375-S900	10R80 Require 9 Pieces, 10R80 MHT Require 12 Pieces	10R80 Require 2, 10R80 MHT Require 3	5	Transfer Case & Vibration Damper Bolts (4WD)
W718353-S900	4	1	4	Transmission Support Insulator Bolts (4WD)
W718396-S439	4	1	4	Skid Plate Nuts
W718926-S900	4	1	4	Transmission Support Insulator Bolts (4WD 10R80 MHT)
W722614-S900	2	1	4	Right Catalytic Converter Bolts (2.7L)
CVC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)
VC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets)

				Except Canada)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(Canada Only)
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid
TA-24-B	As Needed	As Needed		Motorcraft® Thread Sealant With PTFE (4WD)
XG-1-E1	As Needed	As Needed		Motorcraft® Premium Long-Life Grease
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray

Parts - F-150 Transmission Removal And Installation - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
5L7Z-7D285-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Fluid Tube Seals (5.2L/3.5L Oil To Air Cooler)
5L7Z-7J324-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Fluid Tube Backing Rings (5.2L/3.5L Oil To Air Cooler)
ML3Z-7869-C	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Heat Exchanger
ML3Z-3B478-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Front Driveshaft Slip Yoke Boot Clamp (Required ONLY If Boot Is Replaced)
ML3Z-3B478-B	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Front Driveshaft Slip Yoke Boot Clamp
ML3Z-4421-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Front Driveshaft Slip Yoke Boot
W701228-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins (5.0L/5.2L)
W718758-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins (2.7L/3.5L)

Parts - Expedition/Navigator Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
7L1Z-4B496-C	2	2	1	CV Joint-To-Pinion Flange Cup Bolts & Retaining Straps (4WD)
JL1Z-7N134-A	1	1	1	Park Override Lever Bolt (If Equipped)
ML3Z-3B478-B	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Front Driveshaft Slip Yoke Boot Clamp
N811880-S100	4 Or 8 Pieces (Flange Dependent)	1 Per Affected Joint	4	Driveshaft Flange To Flange Bolts
PL3Z-5C226-A	2	2	1	Catalytic Converter Gasket

W520113-S440	4	1	4	Stabilizer Bar Bracket Nuts
W520114-S442	4	1	4	Transmission Support Crossmember Nuts
W705443-S900	4	1	4	Catalytic Converter Nuts
W709771-S440	2	2	1	Transmission Mount Nuts
W711140-S901	3	3	1	Transmission Insulator Bolts And Washers (RWD)
W714418-S439	4	1	4	Transmission Support Crossmember Bolts
W714682-S442	1	1	4	Driveshaft Center Bearing Nut (If Equipped With Two Piece Driveshaft)
W715618-S437	4	1	4	Torque Converter Nuts
W716375-S900	9	2	5	Transfer Case Bolts (4WD)
W718353-S900	4	1	4	Transmission Support Insulator Bolts (4WD)
W718772-S439	1	1	1	Driveshaft Center Bearing Bolt (If Equipped With Two Piece Driveshaft)
W719738-S439	1	1	4	Driveshaft Center Bearing Bracket Mounting Stud (If Equipped With Two Piece Driveshaft)
W720882-S442	1	1	4	Transmission Fluid Heat Exchanger Bolt
CVC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)
VC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets Except Canada)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(Canada Only)
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid
TA-24-B	As Needed	As Needed		Motorcraft® Thread Sealant With PTFE (4WD)
XG-1-E1	As Needed	As Needed		Motorcraft® Premium Long-Life Grease
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray

Parts - Expedition/Navigator Transmission Removal And Installation - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
ML3Z-7869-C	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Heat Exchanger
ML3Z-3B478-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Front Driveshaft Slip Yoke Boot Clamp (Required ONLY If Boot Is Replaced)

ML3Z-4421-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Front Driveshaft Slip Yoke Boot
W718758-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins

Parts - Mustang Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
BR3Z-5B266-A	1	1	1	Right Exhaust Gasket
FR3Z-4B496-B	3	3	1	Driveshaft To Pinion Flange Bolts
N800594-S101	4 Or 8 Pieces (Flange Dependent)	1 Per Affected Joint	4	Driveshaft Flange To Flange Bolts (8pcs For 4 Bolt Style Transmission Yoke)
W500545-S439	3	1	4	Driveshaft To Transmission Flange Bolts (If Equipped)
W705443-S900	2	1	4	Catalytic Converter Nuts
W710726-S437	2	1	4	Selector Lever Cable Bracket Bolts
W712334-S440	4	2	3	Strut Tower Cross Brace Nuts (5.0L)
W715131-S437	1	1	4	Heat Exchanger Tube Bracket Bolt/Transmission Fluid Cooler Tube Bolt
W715618-S437	5.0L Require 4 Pieces, 2.3L Require 6 Pieces	5.0L Require 1, 2.3L Require 2	4	Torque Converter Nuts
W717822-S439	2	1	4	Driveshaft Center Bearing Bolts
W719298-S439	3	1	4	Driveshaft To Pinion Flange Bolts
TA-25-B	As Needed	As Needed		Motorcraft® Thread Sealant With PTFE
XL-1	As Needed	As Needed		Motorcraft® Penetrating and Lock Lubricant
XL-2	As Needed	As Needed		Motorcraft® High Temperature Nickel Anti-Seize Lubricant
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid

Parts - Mustang Transmission Removal And Installation - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
JL3Z-9439-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Intake Gaskets (5.0L)
JR3Z-4782-B	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Flex Coupling
LJ9Z-7J227-A	Only If Necessary (4 Possible)	Only If Necessary (4 Possible)	1	Fluid Cooler O-Ring Seals

Parts - Transit Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
KK2Z-00811-A	2	2	1	Wheel Hub Nut
LK4Z-00815-A	1	1	1	Left Halfshaft O-Ring Oil Seal
LK4Z-3B498-A	1	1	1	Left Halfshaft Snap-Ring Circlip
LK4Z-4B496-A	6	6	1	CV Joint-to-Pinion Flange Cup Bolts And Retaining Straps/CV Joint To Transfer Case Flange Bolts & Straps (AWD)
N800594-S100	4 Or 8 Pieces (Flange Dependent)	1 Per Affected Joint	4	U-Joint Flange Style Bolts - Refer To The Parts Catalog For VIN Specific Application
W500463-S442	4	1	4	Brake Caliper Anchor Plate Bolts
W505264-S442	2	2	1	Driveshaft Safety Strap Bolts (If Equipped)
W505434-S439	4	1	4	Lower Load Path Bar Retainers
W506434-S439	8	2	4	Lower Load Path Bar Bolts
W520215-S442	4	1	4	Tie Rod End Nut/Front Subframe Forward Nuts (2 per application)
W520514-S440	4	4	1	Catalytic Converter Flange Nuts
W709176-S300	2	1	4	Splash Shield Push Pins
W709653-S303	8	2	4	Pop Rivets - Muffler Heat Shield/Front Floor Heat Shield
W710660-S441	2	1	4	Transmission Support Insulator Nuts
W711076-S442	2	1	4	Lower Ball Joint Nut
W711137-S442	1	1	4	Steering Column Shaft Bolt
W712503-S440	2	2	1	Front Stabilizer Bar Link Rod Nuts
W713078-S439	6	2	4	Driveshaft Center Bearing Bolts - Refer To The Parts Catalog For VIN Specific Application
W715618-S437	4	1	4	Torque Converter Nuts
W716331-S439	4	1	4	Transmission Crossmember Bolts
W718943-S439	2	1	4	Front Subframe Rearward Bolts
W719972-S439	3	1	4	Front Axle To Torque Arm Bolts
W719976-S439	3	1	4	Front Axle Tube Bolts/Front Axle To Transmission Bolts

W720688-S439	1	1	4	Front Axle To Transmission Bolt
CVC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)
VC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets Except Canada)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(Canada Only)
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid
XG-1-E1	As Needed	As Needed		Motorcraft® Premium Long-Life Grease
XL-1	As Needed	As Needed		Motorcraft® Penetrating and Lock Lubricant
XL-2	As Needed	As Needed		Motorcraft® High Temperature Nickel Anti-Seize Lubricant
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray
XY-75W140-QL	As Needed	As Needed		Motorcraft® SAE 75W-140 Synthetic Rear Axle Lubricant

Parts - Transit Transmission Removal And Installation - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
LJ9Z-7J227-A	Only If Necessary (4 Possible)	Only If Necessary (4 Possible)	1	Transmission Fluid Cooler Tube O-Ring Seals
LK4Z-7A098-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Filter
W715471-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins (3.5L DOHC Turbo)
W718758-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins (3.5L DOHC VCT)
W719583-S900	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Right Catalytic Converter Studs - (3.5L EcoBoost)
W720627-S900	Only If Necessary (4 Possible)	Only If Necessary (1 Possible)	4	Left Catalytic Converter Studs - (3.5L EcoBoost)

Parts - F-Super Duty 10R100 Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
BC3Z-4N272-A	1 Or 2 Pieces (Flange Dependent)	2 Piece Driveshaft Require 1, 3 Piece Driveshaft Require 2	1	Driveshaft Center Bearing Bolt (1 For 2 Piece Driveshaft) (2 For 3 Piece Driveshaft)
W500633-S439	1 Or 2 Pieces (Flange Dependent)	2 Piece Driveshaft Require 1, 3 Piece Driveshaft Require 2	4	Driveshaft Center Bearing Bolt (1 For 2 Piece Driveshaft) (2 For 3 Piece Driveshaft)
E4HZ-4A254-A	2	2	1	Rear Drive Shaft Retainer Straps (4WD Fixed Flange If Equipped)
F1HZ-4N272-A	4	4	1	Rear Drive Shaft To Output Flange Bolts (4WD Fixed Flange If Equipped)
N811880-S100	4 Or 8 Pieces (Flange)	1 Per Affected Joint	4	Driveshaft Flange to Transmission Flange Bolts (RWD Vehicles)

	Dependent)			
W520514-S440	4	1	4	Left And Right Y-Pipe-To-Exhaust Manifold Nuts
W520515-S440	4	4	1	Crossmember Bracket Nuts
W709771-S440	2	2	1	Transmission Mount Support Isolator Nuts
W710356-S439	4	1	4	Crossmember Bracket Bolts
W714656-S439	4	1	4	Exhaust Hanger Bracket Bolts
W714717-S439	2	1	4	Exhaust Y-Pipe-To-Resonator/Catalytic Converter Bolts
W715131-S442	1	1	4	Transmission Fluid Heat Exchanger Tube Bolt
W715618-S437	4	1	4	Torque Converter Nuts
W716637-S439	2	2	1	Transference Studs (2 For 4WD)/Rear Transmission Mount Bracket Bolt (2 For RWD)
W721321-S439	7	2	4	Transference Bolts (4WD)
Obtain Locally	As Needed	As Needed		Loctite® 243 Threadlocker
CVC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)
VC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets Except Canada)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(Canada Only)
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(All Markets Except Canada)
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid
TA-24-B	As Needed	As Needed		Motorcraft® Thread Sealant With PTFE (4WD)
XG-1-E1	As Needed	As Needed		Motorcraft® Premium Long-Life Grease
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray

Parts - F-Super Duty 10R100 Transmission Removal And Installation - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
BC3Z-5A231-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Exhaust Y-Pipe-To-Resonator Pipe Clamp (Regular Cab)
F2AZ-6397-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Engine Block Dowel Pins (7.3L)
PC3Z-7J227-A	Only If Necessary (4 Possible)	Only If Necessary (4 Possible)	1	Transmission Fluid Cooler O-Ring Seals

W710726-S442	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Bracket Bolts
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Parts - Explorer Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
L1MZ-3B478-A	1	1	1	Front Drive Shaft Boot Clamp
L1MZ-4421-A	1	1	1	Front Drive Shaft Boot
L1MZ-6L612-B	1	1	1	Catalytic Converter Gasket (3.0L)
LB5Z-3B498-A	1	1	1	Front Axle Pinion Stem Circlip
L1MZ-4A015-B	1	1	1	Front Axle Pinion Stem O-Ring
W520214-S440	1	1	2	Transmission Mount Nut (4WD & RWD)
W700714-S437	2	2	1	Selector Lever Cable Bracket Bolts
W714265-S442	4	1	4	Catalytic Converter Nuts (3.3L)
W715131-S442	1	1	4	Transmission Fluid Cooler Tube Bracket Bolt
W715618-S437	3.0L Require 6 Pieces, All Other 10R80 Require 4 Pieces	3.0L Require 2, All Other 10R80 Require 1	4	Torque Converter Nuts
W716375-S900	8	2	5	Transfer Case Bolts (4WD)
W716979-S439	2	1	4	Rear Subframe Bolts (3.0L)
W719413-S439	2	1	4	Middle Subframe Bolts (3.0L)
W719431-S439	RWD Require 2 Pieces, 4WD Require 3 Pieces	1	4	Transmission Mount Bolts (3 for 4WD/2 for RWD)
W719511-S439	3 Or 6 Pieces (Flange Dependent)	1 Flange Require 1, 2 Flange Require 2	4	Driveshaft Flex Coupling To Transfer Case Flange Bolts (4WD)
W719699-S442	2	2	1	Left Catalytic Converter Nuts (3.0L)
W720545-S442	1	1	4	Transmission Cooler Tube Bracket Bolt (Police Interceptor Utility)
W721083-S439	4	1	4	Transmission Crossmember Bolts
5L3Z-19A506-A	As Needed	As Needed		Slip Yoke Grease (Grease - Chassis Lubrication)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(Canada Only)
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD)(All Markets Except Canada)

XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid
PM-4-A	As Needed	As Needed		Motorcraft® Metal Brake Parts Cleaner
TA-29	As Needed	As Needed		Motorcraft® Ultra Silicone Sealant
XG-11	As Needed	As Needed		Motorcraft® High Temperature 4x4 Front Axle and Wheel Bearing Grease
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray
ZC-20	As Needed	As Needed		Motorcraft® Engine Shampoo and Degreaser
ZC-30-A	As Needed	As Needed		Motorcraft® Silicone Gasket Remover
ZC-31-B	As Needed	As Needed		Motorcraft® Metal Surface Prep Wipes

Parts - Explorer Transmission Removal And Installation - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
5L7Z-7D285-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Transmission Fluid Cooler Tube O-Ring Seals
5L7Z-7J324-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Transmission Fluid Cooler Tube Backing Rings
L1MZ-4650-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Driveshaft Alignment Bushing
L1MZ-4782-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Flex Coupling
W525585-S300	Only If Necessary (2 Possible)	Only If Necessary (2 Possible)	1	Engine Block Dowel Pins (3.0L)
W716963-S900	Only If Necessary (4 Possible)	Only If Necessary (1 Possible)	4	Catalytic Converter Studs (3.3L)
W718758-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins (3.3L)
W719698-S900	Only If Necessary (2 Possible)	Only If Necessary (2 Possible)	1	Left Catalytic Converter Studs (3.0L)

Service part numbers and "number in package" quantity may change after publication, thus also affecting the "package order quantity". Refer to the parts catalog for the latest information.

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

Package Order Quantity refers to the amount of the service part number package(s) required to repair the vehicle.

Number In Package refers to the number of individual pieces included in a service part number package.

As Needed indicates the part is necessary but 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.

Only If Necessary indicates the part is not mandatory. Refer to the Service Procedure to determine the inspection/inclusion criteria.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Service Part New Vehicle (SPNV)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SPNV/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time

2024-2025 F-150 4X2/4X4 5.0L TiVCT, 3.5L/2.7L EcoBoost, 5.2L Predator: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423A	2.6 Hrs.
2024-2025 F-150 4X2 5.0L TiVCT Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423B	7.6 Hrs.
2024-2025 F-150 4X4 5.0L TiVCT Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423C	8.6 Hrs.
2024-2025 F-150 4X2 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423D	8.2 Hrs.
2024-2025 F-150 4X4 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423E	9.4 Hrs.
2024-2025 F-150 4X2 2.7L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423F	8.3 Hrs.
2024-2025 F-150 4X4 2.7L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423G	9.5 Hrs.
2024-2025 F-150 4X4 5.2L Predator: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423H	9.3 Hrs.
2024-2025 F-150 4X2/4X4 3.5L PowerBoost: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423J	5.1 Hrs.
2024-2025 F-150 4X2 3.5L PowerBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423K	10.8 Hrs.
2024-2025 F-150 4X4 3.5L PowerBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423L	11.6 Hrs.
2024-2025 Expedition/Navigator 4X2/4X4 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423M	2.9 Hrs.
2024-2025 Expedition 4X2 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423N	8.3 Hrs.
2024-2025 Expedition 4X4 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423P	9.3 Hrs.
2024-2025 Navigator 4X4 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423Q	9.6 Hrs.
2024-2025 Explorer 4WD 3.3L TiVCT/3.3L Hybrid And 3.0L EcoBoost: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423R	2.7 Hrs.
2024-2025 Explorer 4WD 3.3L TiVCT: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423S	9.5 Hrs.
2024-2025 Explorer 4WD 3.3L Hybrid: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423T	10.5 Hrs.
2024-2025 Explorer 4WD 3.0L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423U	8.4 Hrs.

2024-2025 Mustang Coupe And Convertible 2.3L EcoBoost: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423V	2.7 Hrs.
2024-2025 Mustang Coupe 2.3L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423W	7.7 Hrs.
2024-2025 Mustang Convertible 2.3L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423X	8.3 Hrs.
2024-2025 Mustang Coupe And Convertible 5.0L TiVCT: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423Y	2.9 Hrs.
2024-2025 Mustang Coupe 5.0L TiVCT: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423Z	10.0 Hrs.
2024-2025 Mustang Convertible 5.0L TiVCT: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423AA	10.6 Hrs.
2024-2025 F-Super Duty 4X2 And 4X4 6.8L: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423BB	3.0 Hrs.
2024-2025 F-Super Duty 4X2 6.8L: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423CC	7.6 Hrs.
2024-2025 F-Super Duty 4X4 6.8L: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423DD	8.2 Hrs.
2024-2025 Transit RWD/AWD 3.5L TiVCT And 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Pass) Includes Time To Remove The Fluid Pump	252423EE	4.2 Hrs.
2024-2025 Transit RWD 3.5L TiVCT: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423FF	8.4 Hrs.
2024-2025 Transit AWD 3.5L TiVCT: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423GG	10.2 Hrs.
2024-2025 Transit RWD 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423HH	8.4 Hrs.
2024-2025 Transit AWD 3.5L EcoBoost: Retrieve DTC's, Inspect OWC (Fail) Includes Time To Remove The Fluid Pump, Replace The Front Support Assembly, Includes Time To Remove And Install Transmission	252423JJ	10.2 Hrs.
2024-2025 Transit AWD/RWD: Additional Time To Check And Correct Front Toe (Can Be Used With Labor Operation FF, GG, HH Or JJ)	252423KK	1.0 Hrs.
2024-2025 Transit AWD/RWD With Lane Departure Warning: Additional Time To Check And Correct Front Toe Includes Extra Time To Align LDW Camera System (Can Be Claimed With Operation FF, GG, HH Or JJ)	252423LL	1.4 Hrs.
2024-2025 Transit: Transit AWD/RWD: Additional Time To Remove And Install Running Boards If Equipped (Can Be Used With Labor Operation EE, FF, GG, HH Or JJ)	252423MM	0.3 Hrs.

Repair/Claim Coding

Causal Part:	7A130
Condition Code:	07

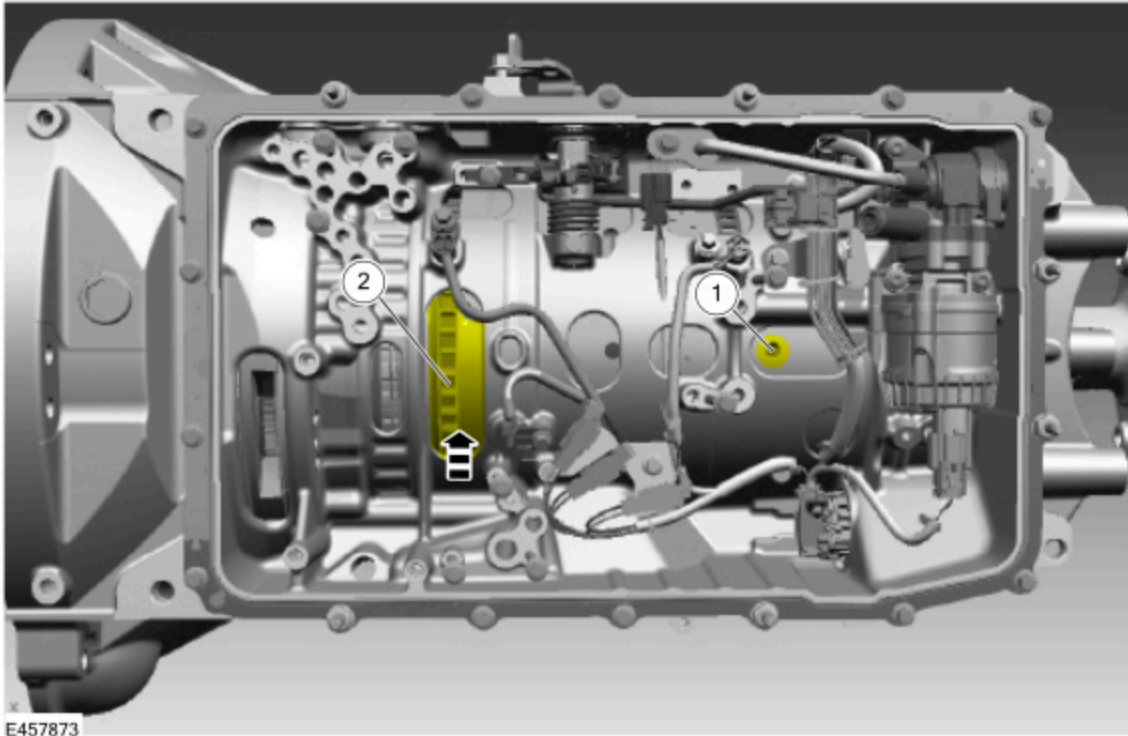
Service Procedure

1. Perform the SQWC directional test.

(1). Remove the transmission fluid pump to access the rotating assembly through the bottom of the transmission case. Refer to WSM, Section 307-01.

(2). Hold the clutch and planetary container cylinder (Figure 1 Callout 1) stationary while rotating the No. 1 ring gear (Figure 1 Callout 2) in the arrow direction shown in Figure 1 to verify the SOWC rotates freely and smoothly. While holding the clutch and planetary container cylinder (Figure 1 Callout 1) stationary, try rotating the No. 1 ring gear (Figure 1 Callout 2) in the opposite direction of the arrow shown in Figure 1 to verify the SOWC is holding. (Figure 1).

Figure 1



Item	Description
1	Clutch and planetary container cylinder
2	No. 1 ring gear

2. Does ring gear No. 1 (Figure 1 Callout 2) rotate in the direction shown and hold in the opposite direction of the arrow shown in Figure 1?

(1). Yes – this article does not apply. Refer to WSM, Section 307-01 for normal diagnostics.

(2). No – proceed to Front Support Replacement Procedure in this article.

Front Support Replacement Procedure

1. Install the transmission fluid pan and bolts.

NOTE: It is not necessary to torque the fluid pan bolts at this time.

2. Remove the transmission and mount the transmission to the bench. Refer to WSM, Section 307-01.

3. Remove and discard the front support assembly. Perform only the necessary steps to remove and replace the front support assembly. Refer to WSM, Section 307-01.

(1). It is only necessary to remove the torque converter/(hybrid drive unit (HDU) for 10R80 MHT), the main control, and the transmission fluid pump to remove the front support.

4. Inspect other transmission components for damage and replace if necessary (7H351 and 7B177).

5. Perform the T3 selective shim measurement and install the new front support assembly. Refer to WSM, Section 307-01.

6. Reassemble the transmission. Refer to WSM, Section 307-01.
7. Install the transmission. Refer to WSM, Section 307-01.
8. Perform an adaptive learning drive cycle. Refer to WSM, Section 307-01.

NOTE: Advise the customer that this vehicle is equipped with an adaptive transmission shift strategy which allows the vehicle's computer to learn the transmission's unique parameters and improve shift quality. When the adaptive strategy is reset, the computer will begin a relearning process. This relearning process may result in firmer than normal upshifts and downshifts for several days.

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