



TECHNICAL SERVICE BULLETIN

10R80 MHT Transmission - Harsh/Delayed Engagement And/Or Harsh/Delayed Shift - Built On Or Before 15-Aug-2022

24-225223 August
2024**Model:**

Ford 2020-2023 Explorer	Built on or before 15-Aug-2022 Transmission: 10R80 MHT (does not apply to 10R80)
2021-2023 F-150	Built on or before 15-Aug-2022 Transmission: 10R80 MHT (does not apply to 10R80)
Lincoln 2020-2023 Aviator	Built on or before 15-Aug-2022 Transmission: 10R80 MHT (does not apply to 10R80)

Markets: North American markets only

Issue: Some 2020-2023 Explorer/Aviator and 2021-2023 F-150 vehicles equipped with a 10R80 MHT transmission may exhibit harsh/delayed engagements and/or harsh/delayed shifts, an illuminated MIL with DTC P0751, P0752, P0756, P0757, P0761, P0762, P0766, P0767, P0771, P0772, P2700, P2701, P2702, P2703, P2704, P2705, P2707, P2708, P0729, P0731, P0732, P0733, P0734, P0735, P0736, P076F, P07D9, P07F6 and/or P07F7 stored in the PCM or TCM. This may be due to the software in the PCM or TCM, the transmission solenoid ID strategy, sticking valves in the main control valve body and/or axial movement of the CDF clutch cylinder (7H351) sleeve. To correct the condition, follow the Service Procedure to identify and correct the condition.

NOTE: This article is to assist technicians to determine repair action(s) based upon engineering analysis of common symptoms. It is not a substitute for customer concern validation, thorough vehicle evaluation, and WSM diagnosis by symptom. If internal transmission repairs are required, technicians should carefully inspect and replace transmission components as needed to ensure proper function. A thorough understanding of transmission description and operation will assist the technician with proper diagnosis, inspection, and successful repair of the customer concern.

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

- One of the following vehicles built on or before 15-Aug-2022:
 - 2020-2023 Explorer/Aviator
 - 2021-2023 F-150
- 10R80 MHT transmission (does not apply to 10R80)
- At least one of the following conditions:
 - DTC P0751, P0752, P0756, P0757, P0761, P0762, P0766, P0767, P0771, P0772, P2700, P2701, P2702, P2703, P2704, P2705, P2707, P2708, P0729, P0731, P0732, P0733, P0734, P0735, P0736, P076F, P07D9, P07F6 and/or P07F7
 - Harsh engagement
 - Delayed engagement
 - Harsh shift
 - Delayed shift

Parts - Main Control Overhaul - All Vehicles

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
W712658-S439	2	1	4	Solenoid Retaining Plate Bolt
HL3Z-7G007-A	6	6	1	Solenoid Retaining Clips
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid

Parts - Main Control Overhaul - Parts To Inspect And Replace Only If Necessary - All Vehicles

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
L1MZ-7F396-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Fluid Pan Gasket
L1MZ-7N265-A	Only If Necessary (2 Possible)	Only If Necessary (2 Possible)	1	Fluid Pan To Case Seals
BL8Z-7G199-A	Only If Necessary (2 Possible)	Only If Necessary (2 Possible)	1	Hybrid Drive Unit Feed Tube Seals
L1MZ-7A098-B	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Fluid Filter
L1MZ-7J135-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Auxiliary Pump Seal
7T4Z-7Z302-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Transmission Fluid Filter Seal
HL3Z-7Z490-E	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Channel Plate
ML3Z-7Z490-C	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Separator Plate (F-150)
L1MZ-7Z490-N	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Separator Plate (Aviator, Explorer With Electronic Shift)
L1MZ-7Z490-P	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Separator Plate (Explorer Without Electronic Shift)

Parts - 10R80 MHT CDF Cylinder Replacement

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
HL3Z-7G091-F	5	5	1	Input Shaft Seals (F2)
HL3Z-7B399-C	4	4	1	Sun Gear No. 3 Shaft Seals (F7)
HL3Z-7C099-A	1	1	1	C Clutch Balance Dam Inner Seal
HL3Z-7A548-B	2	2	1	C Clutch Balance Dam And Piston Outer Seal
HL3Z-7D404-A	2	2	1	C And D Clutch Piston Inner Seals
HL3Z-7A262-C	1	1	1	D Clutch Balance Dam
HL3Z-7D403-A	1	1	1	D Clutch Piston Outer Seal
HL3Z-7A548-G	2	2	1	F Clutch Balance Dam And Piston Outer Seal
HL3Z-7A548-A	2	2	1	F Clutch Balance Dam And Piston Inner Seal
HL3Z-7G091-G	5	5	1	Input Shaft To Sun Gear No. 3 Shaft Seals (F8)
HL3Z-7G091-C	1	1	1	Input Shaft Seal (F9)
JL3Z-7H351-B	1	1	1	CDF Cylinder (Explorer/Aviator)
ML3Z-7H351-B	1	1	1	CDF Cylinder (F-150)

Parts - 10R80 MHT CDF Cylinder Replacement - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
ML3Z-7A191-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Hybrid Drive Unit Gasket

HL3Z-7B066-AB	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	A Pressure Plate
HL3Z-7B164-E	Only If Necessary (3 Possible)	Only If Necessary (3 Possible)	1	A Clutch Friction Plates
HL3Z-7F220-A	Only If Necessary (2 Possible)	Only If Necessary (2 Possible)	1	A Clutch Steel Plates
HL3Z-7B442-F	Only If Necessary (5 Possible)	Only If Necessary (5 Possible)	1	C Clutch Steel Plates
HL3Z-7B164-A	Only If Necessary (5 Possible)	Only If Necessary (5 Possible)	1	C Clutch Friction Plates
ML3Z-7H095-A	Only If Necessary (5 Possible)	Only If Necessary (5 Possible)	1	C Clutch Friction Plates (F-150)
ML3Z-7B477-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	C Clutch Pressure Plate
HL3Z-7B442-D	Only If Necessary (6 Possible)	Only If Necessary (6 Possible)	1	D Clutch Steel Plates
HL3Z-7B164-C	Only If Necessary (6 Possible)	Only If Necessary (6 Possible)	1	D Clutch Friction Plates (Explorer/Aviator)
ML3Z-7B164-A	Only If Necessary (6 Possible)	Only If Necessary (6 Possible)	1	D Clutch Friction Plates (F-150)
HL3Z-7B066-E	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	D Clutch Pressure Plate (F-150)
HL3Z-7B164-G	Only If Necessary (4 Possible)	Only If Necessary (4 Possible)	1	F Clutch Steel Plates
HL3Z-7B164-D	Only If Necessary (4 Possible)	Only If Necessary (4 Possible)	1	F Clutch Friction Plates
HL3Z-7B066-A	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	F Clutch Pressure Plate

Parts - 10R80 MHT CDF Cylinder Replacement - Select One Of The Following If Needed

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
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
HL3Z-7H032-C	1	1	1	T-3 Bearing (Replace If T-3 Shim Is Replaced)
HL3Z-7A527-Q	1	1	1	T-3 Shim 3.05-3.15 mm Selective
HL3Z-7A527-P	1	1	1	T-3 Shim 3.20-3.30 mm Selective
HL3Z-7A527-R	1	1	1	T-3 Shim 3.35-3.45 mm Selective
HL3Z-7A527-K	1	1	1	T-3 Shim 3.50-3.60 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 3.80-3.90 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 4.10-4.20 mm Selective
HL3Z-7A527-N	1	1	1	T-3 Shim 4.25-4.35 mm Selective
HL3Z-7D483-A	1	1	1	D Clutch Snap Ring 1.8 mm Selective
HL3Z-7D483-B	1	1	1	D Clutch Snap Ring 2.0 mm Selective
HL3Z-7D483-C	1	1	1	D Clutch Snap Ring 2.2 mm Selective
HL3Z-7D483-D	1	1	1	D Clutch Snap Ring 2.4 mm Selective
HL3Z-7D483-E	1	1	1	D Clutch Snap Ring 2.6 mm Selective
HL3Z-7D483-F	1	1	1	D Clutch Snap Ring 2.8 mm Selective
HL3Z-7C122-A	1	1	1	C Clutch Snap Ring 1.5 mm Selective
HL3Z-7C122-B	1	1	1	C Clutch Snap Ring 1.7 mm Selective
HL3Z-7C122-C	1	1	1	C Clutch Snap Ring 1.9 mm Selective
HL3Z-7C122-D	1	1	1	C Clutch Snap Ring 2.1 mm Selective
HL3Z-7C122-E	1	1	1	C Clutch Snap Ring 2.3 mm Selective
HL3Z-7H365-C	1	1	1	F Clutch Snap Ring 1.5 mm Selective
HL3Z-7H365-D	1	1	1	F Clutch Snap Ring 1.7 mm Selective
HL3Z-7H365-E	1	1	1	F Clutch Snap Ring 1.9 mm Selective
HL3Z-7H365-F	1	1	1	F Clutch Snap Ring 2.1 mm Selective
HL3Z-7H365-G	1	1	1	F Clutch Snap Ring 2.3 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 And Retaining Straps (4WD)
FL3Z-6775-D	1	1	1	Self-Adhesive Heat Shield
PL3Z-5C226-A	2	2	1	Left And Right Catalytic Converter Gasket (3.5L)
W520113-S440	4	1	4	Stabilizer Bar Bracket Nuts
W520214-S440	4	2	2	Transmission Support Crossmember Nuts
W520514-S440	4	4	1	Left And Right Catalytic Converter Nuts
W704980-S439	1	1	4	Park Manual Release Cable Bracket Bolt
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
W714717-S439	2	1	4	Muffler Inlet Pipe Bolts
W716375-S900	9	2	5	Transfer Case Bolts (4WD)
W718353-S900	4	1	4	Transmission Insulator Bolts (4WD)
W715579-S439	2	1	4	Driveshaft Center Bearing Bolt (If Equipped With Two Piece Driveshaft)
TA-24-B	As Needed	As Needed		Motorcraft® Thread Sealant With PTFE (4WD)
VC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets Except Canada)
CVC-13DL-G	As Needed	As Needed		Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)
XG-1-E1	As Needed	As Needed		Motorcraft® Premium Long-Life Grease
XL-5-A	As Needed	As Needed		Motorcraft® Multi-Purpose Grease Spray
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (Canada Only)
XT-12-QULV	As Needed	As Needed		Motorcraft® MERCON® ULV Automatic Transmission Fluid

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
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 (2.7L/3.3L/3.5L)

Parts - F-150 Transmission Removal And Installation - Rear Driveshaft Bolts And Straps - Not All Vehicles Will Use All Of The Parts Listed

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
N800594-S100	4 Or 8 (Flange Dependent)	1 Or 2	4	Driveshaft Flange To Flange Bolts

Parts - Explorer/Aviator Transmission Removal And Installation

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
W715131-S442	1	1	4	Transmission Fluid Cooler Tube Bracket Bolts
W700714-S437	2	1	2	Selector Lever Cable Bracket Bolts
W500213-S442	1	1	4	Park Manual Release Cable Bolt (Without Electronic Shift)
LB5Z-3B498-A	1	1	1	Front Axle Pinion Stem Circlip

LIMZ-4A015-B	1	1	1	Front Axle Pinion Stem O-ring
L1MZ-3B478-A	1	1	1	Front Driveshaft Boot Clamp
L1MZ-4421-A	1	1	1	Front Driveshaft Boot
W719511-S439	3 Pieces Required If Driveshaft Is Disconnected At Only One End, 6 Pieces Required If Coupler Or Driveshaft Alignment Bush Are Replaced	1 Or 2	4	Driveshaft Flex Coupling Bolts
W716375-S900	8	2	5	Transfer Case Bolts (4WD)
W719431-S439	RWD Requires 2 Pieces, AWD Requires 3 Pieces	1	4	Transmission Mount Bolts
W520214-S440	1	1	2	Transmission Mount Nut
W721083-S439	4	1	4	Transmission Crossmember Bolts
W719413-S439	2	1	4	Middle Subframe Bolts
W716979-S439	2	1	4	Rear Subframe Bolts
W719699-S442	2	1	4	Catalytic Converter Nuts
L1MZ-6L612-B	1	1	1	Left Catalytic Converter Gasket (3.0L)
W719698-S900	2	2	1	Catalytic Converter Studs (3.0L)
W714265-S442	4	1	4	Left And Right Catalytic Converter Nuts (3.3L)
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
5L3Z-19A506-A	As Needed	As Needed		Slip Yoke Grease (Grease - Chassis Lubrication)
XG-11	As Needed	As Needed		Motorcraft® High Temperature 4x4 Front Axle and Wheel Bearing Grease
XT-10-QLVC	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)
CXT-10-LV6	As Needed	As Needed		Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (Canada Only)
XG-1-E1	As Needed	As Needed		Motorcraft® Premium Long-Life Grease

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

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
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5L7Z-7D285-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Transmission Fluid Cooler Tube Seals
5L7Z-7J324-A	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	2	Fluid Cooler Tube Backing Rings
W525585-S300	Only If Necessary (2 Possible)	Only If Necessary (2 Possible)	1	Engine Block Dowel Pins (3.0L)
W718758-S300	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Engine Block Dowel Pins (3.3L)
W716963-S900	Only If Necessary (4 Possible)	Only If Necessary (1 Possible)	4	Left And Right Catalytic Converter Studs (3.3L)
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
W717822-S439	Only If Necessary (2 Possible)	Only If Necessary (1 Possible)	4	Driveshaft Center Bearing Bolts
L1MZ-3B498-F	Only If Necessary (1 Possible)	Only If Necessary (1 Possible)	1	Rear Axle Pinion Stem Circlip

Warranty Status: Information Only.

Repair/Claim Coding

Causal Part:	IN
Condition Code:	42

Service Procedure

NOTE: This article is for information only. Determine the causal part number and use available labor times in Section 7 of the SLTS Manual or claim M-time in accordance with the Warranty and Policy Manual. Causal part number "IN" in this article refers to the information only status and is not able to be claimed.

- Using the latest software level of the FDRS scan tool, check for DTCs and record for a future step.
- Is vehicle built on or before 1-Nov-2021?
 - Yes - reprogram the transmission strategy download into the PCM/TCM. Refer to WSM, Section 307-01. Proceed to Step 3.
 - No - proceed to Step 3.

NOTE: When prompted, select Transmission Replacement (Full Assembly) only and re-enter the production transmission serial information on the side of the transmission.

- Using the latest software level of the FDRS scan tool, check for later PCM/TCM software version.
- Is a later software version available?
 - Yes - reprogram the PCM/TCM to the latest software. Proceed to Step 5.
 - No - proceed to Step 5.
- Are any of the following DTCs present? P0751, P0752, P0756, P0757, P0761, P0762, P0766, P0767, P0771, P0772, P2700, P2701, P2702, P2703, P2704, P2705, P2707, P2708, P0729, P0731, P0732, P0733, P0734, P0735, P0736, P076F, P07D9, P07F6 and/or P07F7.
 - Yes - proceed to Sticking Valves - Main Control Valve Body, Step 2.
 - No - perform the adaptive learning drive cycle. Refer to WSM, Section 307-01.
- Does the vehicle still exhibit the condition after performing the adaptive learning drive?
 - Yes - proceed to Sticking Valves - Main Control Valve Body, Step 1.
 - No - repair is complete.

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.

Sticking Valves - Main Control Valve Body

1. Determine the appropriate clutch(s) to be cycled related to the symptoms present. Refer to WSM, Section 307-01. Proceed to Step 3.
2. Determine the appropriate clutch(s) to be cycled related to DTCs present. Refer to WSM, Section 307-01.
3. Clear all DTCs present before performing the "PCM - Transmission Accelerated Main Control Break In" routine.



CAUTION: Failure to use a frame engaging lift could damage the vehicle.

4. Prepare vehicle for the "PCM - Transmission Accelerated Main Control Break In" routine by positioning on a frame-engaging lift with wheels off the ground to prevent vehicle movement.
5. Using the latest software level of the FDRS scan tool, perform the "PCM - Transmission Accelerated Main Control Break In" routine 3 times on the appropriate clutch(s) determined to be cycled.
6. Perform the adaptive learning drive cycle. Refer to WSM, Section 307-01.
7. Does the vehicle still exhibit the condition after performing the "PCM - Transmission Accelerated Main Control Break In" routine and adaptive learning drive cycle?
 - (1). Yes - proceed to Step 8.
 - (2). No - repair is complete.

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.

8. Overhaul (clean and inspect) the main control valve body and road test vehicle following the adaptive learning drive cycle. Refer to WSM, Section 307-01.
9. Does the vehicle still exhibit the condition after overhauling the main control valve body and performing an adaptive learning drive cycle?
 - (1). Yes, vehicles built on or before 15-Aug-2022 - proceed to CDF Clutch Cylinder Replacement, Step 1.
 - (2). Yes, vehicles built on or after 16-Aug-2022 - this article is complete. Refer to WSM, Section 307-01 for normal diagnostics.
 - (3). No - repair is complete.

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.

CDF Clutch Cylinder Replacement

For Mexico, U.S. and Canadian vehicles which are low time in service (LTIS) program eligible the dealer has the option to continue with this TSB repair or replace the transmission under the LTIS program.

1. Remove the transmission and mount the transmission to the bench. Refer to WSM, Section 307-01.
2. Disassemble the transmission. Perform only the necessary steps to remove the clutch and planetary assembly from the transmission case. Refer to WSM, Section 307-01.
 - (1). It is only necessary to remove the torque converter or the hybrid drive unit, transmission fluid pan and gasket, transmission fluid auxiliary pump (if equipped), fluid filter and main control valve body assembly, all 4 speed sensors (intermediate speed sensor A [ISSA], intermediate speed sensor B [ISSB], TSS and QSS), transmission fluid pump, front support assembly and the clutch and planetary assembly. Refer to WSM, Section 307-01.
3. Disassemble the clutch and planetary assembly. Perform only the necessary steps to remove the CDF clutch cylinder and the No. 3 sun gear shaft and No. 2 ring gear assembly from the clutch and planetary assembly. Refer

to WSM, Section 307-01.

- (1). It is only necessary to remove the A clutch assembly, the selective shim and T3 thrust bearing, remove and discard the 5-input shaft front seals.
- (2). Remove the No. 1 planetary carrier snap ring, clutch, and planetary container cylinder, the E clutch and input shaft assembly, the No. 3 planetary carrier and No. 3 sun gear, the No. 3 sun gear shaft and No. 2 ring gear assembly. Refer to WSM, Section 307-01.
4. Remove and discard the sun gear No. 3 shaft seals. Install the 4 new sun gear No. 3 shaft seals. Refer to WSM, Section 307-01.
5. Disassemble the C, D and F clutch assemblies from the CDF cylinder. Discard the CDF cylinder. Refer to WSM, Section 307-01.
6. Assemble the C, D and F clutch assemblies into the new CDF clutch cylinder. Refer to WSM, Section 307-01.
7. Perform the C, D and F clutch pack endplay measurements for proper clearance. Refer to WSM, Section 307-01.
8. Remove and discard the input shaft-to-sun gear No. 3 shaft seals. Install the 5 new input shaft-to-sun gear No. 3 shaft seals. Refer to WSM, Section 307-01.
9. Remove and discard the input shaft seal. Install the new input shaft seal. Refer to WSM, Section 307-01.
10. Install the 5 new input shaft front seals. Refer to WSM, Section 307-01.
11. To reassemble the clutch and planetary assembly, reverse the disassembly procedure. Refer to WSM, Section 307-01.
12. Perform the T3 thrust bearing measurement to set transmission front end clearance. Refer to WSM, Section 307-01.
13. Reassemble the transmission. Refer to WSM, Section 307-01.
14. Install the transmission. Refer to WSM, Section 307-01.
15. 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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