



TECHNICAL SERVICE BULLETIN

Harsh/Delayed Engagement And/Or Harsh/Delayed Shift

26-2287
17 June 2026

This bulletin supersedes 25-2302. Reason for update: update the labor time allowance for F-150 vehicles, update the Parts list to replace the part number W716979-S439 with W721084-S439, and add a note for LV fluids XT-10-QLVC and CXT-10-LV6 "Transfer Case Fluid".

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

- Harsh engagement
- Delayed engagement
- Harsh shift
- Delayed shift
- Illuminated MIL with DTCs 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 axial movement of the CDF clutch cylinder sleeve causing hydraulic circuit leaks.

NOTE: If internal transmission service is required to address a concern detected with the CDF clutch cylinder following this article, technicians should carefully inspect and replace other transmission components and flush transmission fluid cooler only as necessary as needed to ensure proper function. Add a new line to the repair order to document any additional repairs needed. M-time can be claimed on the additional repair line to cover labor. Refer to Warranty and Policy Manual for additional information. A thorough understanding of transmission description and operation will assist the technician with proper diagnosis, inspection, and successful repair of the customer concern.

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to reprogram the transmission strategy download, reprogram the PCM software, perform an Accelerated Main Control Break-In routine, overhaul the main control valve body and/or replace the CDF clutch cylinder (7H351) and the clutch and planetary container cylinder (7B177) if instructed.

Parts - Main Control Overhaul - All Vehicles

Service Part Number	Claim Quantity	Description
W712658-S439	2	Solenoid Retaining Plate Bolt
HL3Z-7G007-A	6	Solenoid Retaining Clips
XT-12-QULV	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	Description
L1MZ-7F396-A	Only If Necessary (1 Possible)	Fluid Pan Gasket
L1MZ-7N265-A	Only If Necessary (2 Possible)	Fluid Pan To Case Seals

BL8Z-7G199-A	Only If Necessary (2 Possible)	Hybrid Drive Unit Feed Tube Seals
L1MZ-7A098-B	Only If Necessary (1 Possible)	Fluid Filter
L1MZ-7J135-A	Only If Necessary (1 Possible)	Auxiliary Pump Seal
7T4Z-7Z302-A	Only If Necessary (1 Possible)	Transmission Fluid Filter Seal
HL3Z-7Z490-E	Only If Necessary (1 Possible)	Channel Plate
ML3Z-7Z490-C	Only If Necessary (1 Possible)	Separator Plate (F-150)
L1MZ-7Z490-N	Only If Necessary (1 Possible)	Separator Plate (Aviator, Explorer With Electronic Shift)
L1MZ-7Z490-P	Only If Necessary (1 Possible)	Separator Plate (Explorer Without Electronic Shift)

Parts - 10R80 MHT CDF Cylinder Replacement - All Vehicles

Service Part Number	Claim Quantity	Description
HL3Z-7G091-F	5	Input Shaft Seals (F2)
HL3Z-7B399-C	4	Sun Gear No. 3 Shaft Seals (F7)
HL3Z-7C099-A	1	C Clutch Balance Dam Inner Seal
HL3Z-7A548-B	2	C Clutch Balance Dam And Piston Outer Seal
HL3Z-7D404-A	2	C And D Clutch Piston Inner Seals
HL3Z-7A262-C	1	D Clutch Balance Dam
HL3Z-7D403-A	1	D Clutch Piston Outer Seal
HL3Z-7A548-G	2	F Clutch Balance Dam And Piston Outer Seal
HL3Z-7A548-A	2	F Clutch Balance Dam And Piston Inner Seal
HL3Z-7G091-G	5	Input Shaft To Sun Gear No. 3 Shaft Seals (F8)
HL3Z-7G091-C	1	Input Shaft Seal (F9)
JL3Z-7H351-B	1	CDF Cylinder (Explorer/Aviator)
ML3Z-7H351-B	1	CDF Cylinder (F-150)
PC3Z-7B177-A	1	Clutch And Planetary Container Cylinder

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

Service Part Number	Claim Quantity	Description
ML3Z-7A191-A	Only If Necessary (1 Possible)	Hybrid Drive Unit Gasket
HL3Z-7B066-AB	Only If Necessary (1 Possible)	A Pressure Plate
HL3Z-7B164-E	Only If Necessary (3 Possible)	A Clutch Friction Plates
HL3Z-7F220-A	Only If Necessary (2 Possible)	A Clutch Steel Plates
HL3Z-7B442-F	Only If Necessary (5 Possible)	C Clutch Steel Plates
HL3Z-7B164-A	Only If Necessary (5 Possible)	C Clutch Friction Plates
ML3Z-7H095-A	Only If Necessary (5 Possible)	C Clutch Friction Plates (F-150)
ML3Z-7B477-A	Only If Necessary (1 Possible)	C Clutch Pressure Plate
HL3Z-7B442-D	Only If Necessary (6 Possible)	D Clutch Steel Plates
HL3Z-7B164-C	Only If Necessary (6 Possible)	D Clutch Friction Plates (Explorer/Aviator)
ML3Z-7B164-A	Only If Necessary (6 Possible)	D Clutch Friction Plates (F-150)
HL3Z-7B066-E	Only If Necessary (1 Possible)	D Clutch Pressure Plate (F-150)
HL3Z-7B164-G	Only If Necessary (4 Possible)	F Clutch Steel Plates
HL3Z-7B164-D	Only If Necessary (4 Possible)	F Clutch Friction Plates
HL3Z-7B066-A	Only If Necessary (1 Possible)	F Clutch Pressure Plate

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

Service Part Number	Claim Quantity	Description
HL3Z-7B066-AA	1	A Clutch Apply Plate 4.1 - 4.3 mm Selective
HL3Z-7B066-Z	1	A Clutch Apply Plate 4.4 - 4.6 mm Selective
HL3Z-7B066-Y	1	A Clutch Apply Plate 4.7 - 4.9 mm Selective
HL3Z-7B066-X	1	A Clutch Apply Plate 5.0 - 5.2 mm Selective
HL3Z-7B066-W	1	A Clutch Apply Plate 5.3 - 5.5 mm Selective
HL3Z-7H032-C	1	T-3 Bearing (Replace If T-3 Shim Is Replaced)
HL3Z-7A527-Q	1	T-3 Shim 3.05-3.15 mm Selective
HL3Z-7A527-P	1	T-3 Shim 3.20-3.30 mm Selective
HL3Z-7A527-R	1	T-3 Shim 3.35-3.45 mm Selective
HL3Z-7A527-K	1	T-3 Shim 3.50-3.60 mm Selective
HL3Z-7A527-L	1	T-3 Shim 3.65-3.75 mm Selective
HL3Z-7A527-M	1	T-3 Shim 3.80-3.90 mm Selective
HL3Z-7A527-S	1	T-3 Shim 3.95-4.05 mm Selective
HL3Z-7A527-T	1	T-3 Shim 4.10-4.20 mm Selective
HL3Z-7A527-N	1	T-3 Shim 4.25-4.35 mm Selective
HL3Z-7D483-A	1	D Clutch Snap Ring 1.8 mm Selective
HL3Z-7D483-B	1	D Clutch Snap Ring 2.0 mm Selective
HL3Z-7D483-C	1	D Clutch Snap Ring 2.2 mm Selective
HL3Z-7D483-D	1	D Clutch Snap Ring 2.4 mm Selective
HL3Z-7D483-E	1	D Clutch Snap Ring 2.6 mm Selective
HL3Z-7D483-F	1	D Clutch Snap Ring 2.8 mm Selective
HL3Z-7C122-A	1	C Clutch Snap Ring 1.5 mm Selective
HL3Z-7C122-B	1	C Clutch Snap Ring 1.7 mm Selective
HL3Z-7C122-C	1	C Clutch Snap Ring 1.9 mm Selective
HL3Z-7C122-D	1	C Clutch Snap Ring 2.1 mm Selective
HL3Z-7C122-E	1	C Clutch Snap Ring 2.3 mm Selective
HL3Z-7H365-C	1	F Clutch Snap Ring 1.5 mm Selective
HL3Z-7H365-D	1	F Clutch Snap Ring 1.7 mm Selective
HL3Z-7H365-E	1	F Clutch Snap Ring 1.9 mm Selective
HL3Z-7H365-F	1	F Clutch Snap Ring 2.1 mm Selective
HL3Z-7H365-G	1	F Clutch Snap Ring 2.3 mm Selective

Parts - F-150 Transmission Removal And Installation

Service Part Number	Claim Quantity	Description	Note
7L1Z-4B496-C	2	CV Joint-To-Pinion Flange Cup Bolts And Retaining Straps (4WD)	
FL3Z-6775-D	1	Self-Adhesive Heat Shield	
PL3Z-5C226-A	2	Left And Right Catalytic Converter Gasket (3.5L)	
W520113-S440	4	Stabilizer Bar Bracket Nuts	
W520114-S442	4	Transmission Support Crossmember Nuts	
W520514-S440	4	Left And Right Catalytic Converter Nuts	

W704980-S439	1	Park Manual Release Cable Bracket Bolt	
W709771-S440	2	Transmission Mount Nuts	
W711140-S901	3	Transmission Insulator Bolts And Washers (RWD)	
W714418-S439	4	Transmission Support Crossmember Bolts	
W718926-S900	4	Transmission Insulator Bolts (4WD)	
W714717-S439	2	Muffler Inlet Pipe Bolts	
W716375-S900	9	Transfer Case Bolts (4WD)	
W715579-S439	2	Driveshaft Center Bearing Bolt (If Equipped With Two Piece Driveshaft)	
TA-24-B	As Needed	Motorcraft® Thread Sealant With PTFE (4WD)	
VC-13DL-G	As Needed	Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets Except Canada)	
CVC-13DL-G	As Needed	Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)	
XG-1-E1	As Needed	Motorcraft® Premium Long-Life Grease	
XL-5-A	As Needed	Motorcraft® Multi-Purpose Grease Spray	
XT-10-QLVC	As Needed	Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)	Transfer Case Fluid
CXT-10-LV6	As Needed	Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (Canada Only)	Transfer Case Fluid
XT-12-QULV	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	Description
ML3Z-4421-A	Only If Necessary (1 Possible)	Front Driveshaft Slip Yoke Boot
W718758-S300	Only If Necessary (2 Possible)	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	Description
N800594-S100	4 Or 8 (Flange Dependent)	Driveshaft Flange To Flange Bolts

Parts - Explorer/Aviator Transmission Removal And Installation

Service Part Number	Claim Quantity	Description	Note
W715131-S442	1	Transmission Fluid Cooler Tube Bracket Bolts	
W700714-S437	2	Selector Lever Cable Bracket Bolts	
W500213-S442	1	Park Manual Release Cable Bolt (Without Electronic Shift)	
LB5Z-3B498-A	1	Front Axle Pinion Stem Circlip	
L1MZ-4A015-B	1	Front Axle Pinion Stem O-ring	
L1MZ-3B478-A	1	Front Driveshaft Boot Clamp	
L1MZ-4421-A	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	Driveshaft Flex Coupling Bolts	
W716375-S900	8	Transfer Case Bolts (4WD)	
W719431-S439	RWD Requires 2 Pieces, AWD Requires 3 Pieces	Transmission Mount Bolts	
W520214-S440	1	Transmission Mount Nut	
W721083-S439	4	Transmission Crossmember Bolts	
W719413-S439	2	Middle Subframe Bolts	
W721084-S439	2	Rear Subframe Bolts	
W719699-S442	2	Catalytic Converter Nuts	
L1MZ-6L612-B	1	Left Catalytic Converter Gasket (3.0L)	
W719698-S900	2	Catalytic Converter Studs (3.0L)	
W714265-S442	4	Left And Right Catalytic Converter Nuts (3.3L)	
XL-5-A	As Needed	Motorcraft® Multi-Purpose Grease Spray	
XT-12-QULV	As Needed	Motorcraft® MERCON® ULV Automatic Transmission Fluid	
5L3Z-19A506-A	As Needed	Slip Yoke Grease (Grease - Chassis Lubrication)	
XG-11	As Needed	Motorcraft® High Temperature 4x4 Front Axle and Wheel Bearing Grease	
XT-10-QLVC	As Needed	Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (All Markets Except Canada)	Transfer Case Fluid
CXT-10-LV6	As Needed	Motorcraft® MERCON® LV Automatic Transmission Fluid (4WD) (Canada Only)	Transfer Case Fluid
XG-1-E1	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	Description
5L7Z-7D285-A	Only If Necessary (2 Possible)	Transmission Fluid Cooler Tube Seals
5L7Z-7J324-A	Only If Necessary (2 Possible)	Fluid Cooler Tube Backing Rings
W525585-S300	Only If Necessary (2 Possible)	Engine Block Dowel Pins (3.0L)
W718758-S300	Only If Necessary (2 Possible)	Engine Block Dowel Pins (3.3L)
W716963-S900	Only If Necessary (4 Possible)	Left And Right Catalytic Converter Studs (3.3L)
L1MZ-4650-A	Only If Necessary (1 Possible)	Driveshaft Alignment Bushing
L1MZ-4782-A	Only If Necessary (1 Possible)	Flex Coupling

W717822-S439	Only If Necessary (2 Possible)	Driveshaft Center Bearing Bolts
L1MZ-3B498-F	Only If Necessary (1 Possible)	Rear Axle Pinion Stem Circlip

NOTE: All other parts instructed by the WSM to inspect and replace as necessary should be claimed outside of this article.

Claim Quantity refers to the total number of individual pieces required to repair the vehicle. This may differ from the number of service part number packages due to the unit of issue (UOI).

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: Warranty coverage limits and policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

Labor Times

Description	Operation No.	Time
Various Vehicles: Retrieve and Record DTCs (Can Be Claimed With Operation B-M)	262287A	0.2 Hrs
Various Vehicles: Reprogram The Transmission Strategy Download Into The PCM (Can Be Claimed With Operation A-M)	262287B	0.2 Hrs
2021-2022 F-150 3.5L PowerBoost: Perform Software Update On Appropriate Modules Following TSB Procedure (Can Be Claimed With A, B, D, E, G, H And J)	AP262287C	Actual Time Up To 0.5 Hrs.
Various Vehicles: Perform The Transmission Accelerated Main Control Break In Routine On The Appropriate Clutch(s) (Can Be Claimed With Operation A-M)	262287D	1.2 Hrs
Various Vehicles: Perform Adaptive Learning Drive Cycle (Can Be Claimed With Operation A-M)	262287E	0.6 Hrs
2020-2023 Explorer/Aviator Hybrid: Overhaul The Main control Valve Body, Perform Adaptive Learning Drive Cycle And Road Test (Can Be Claimed With A, B, D, E And K, L, Or M)	262287F	Actual Time Up To 4.0 Hrs.
2021-2023 F-150 3.5L PowerBoost: Overhaul The Main control Valve Body, Perform Adaptive Learning Drive Cycle And Road Test (Can Be Claimed With A, B, C, D, E And H Or J)	262287G	Actual Time Up To 6.2 Hrs.
2021-2023 F-150 4X2 3.5L PowerBoost: Replace CDF Includes Remove And Install Transmission, Perform Adaptive Drive Cycle And Road Test (Can Be Claimed With A-E And G)	262287H	Actual Time Up To 11.0 Hrs.
2021-2023 F-150 4X4 3.5L PowerBoost: Replace CDF Includes Remove And Install Transmission, Perform Adaptive Drive Cycle And Road Test (Can Be Claimed With A-E And G)	262287J	Actual Time Up To 12.6 Hrs.
2020-2023 Explorer RWD 3.3L Hybrid: Replace CDF Includes Remove And Install Transmission, Perform Adaptive Drive Cycle And Road Test (Can Be Claimed With A, B, D, E, And F)	262287K	Actual Time Up To 9.9 Hrs.
2020-2023 Explorer 4WD 3.3L Hybrid: Replace CDF Includes Remove And Install Transmission, Perform Adaptive Drive Cycle And Road Test (Can Be Claimed With A, B, D, E, And F)	262287L	Actual Time Up To 10.4 Hrs.
2020-2023 Aviator AWD 3.0L Hybrid: Replace CDF Includes Remove And Install Transmission, Perform Adaptive Drive Cycle And Road Test (Can Be Claimed With A, B, D, E, And F)	262287M	Actual Time Up To 10.4 Hrs.

Repair/Claim Coding

Causal Part:	7H351
Condition Code:	42

Service Procedure

1. Using the latest software level of the FDRS scan tool, check for DTCs and record for a future step.
2. Is vehicle built on or before 1-Nov-2021?
 - (1). Yes - reprogram the transmission strategy download into the PCM. Refer to WSM, Section 307-01. Proceed to Step 3.
 - (2). 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.

3. Is the vehicle a 2021-2022 F-150?
 - (1). Yes - reprogram the PCM using the latest version of the FDRS. Follow all on-screen instructions carefully to complete all required coordinated module software update(s), including:
 - ABS module
 - SOBDMC
 - BECM
 - (2). No – proceed to Step 4.
4. 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.
 - (1). Yes - proceed to Sticking Valves - Main Control Valve Body, Step 2.
 - (2). No - perform the adaptive learning drive cycle. Refer to WSM, Section 307-01.
5. Does the vehicle still exhibit the condition after performing the adaptive learning drive?
 - (1). Yes - proceed to Sticking Valves - Main Control Valve Body, Step 1.
 - (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.

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 and repair as necessary outside of this article.
 - (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 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 clutch and planetary container cylinder, 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 No. 4 ring gear snap ring and the No. 4 ring gear from the clutch and planetary container cylinder. Discard the clutch and planetary container cylinder. Refer to WSM, Section 307-01.
 - (3). Remove 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. Install the No. 4 ring gear and snap ring into a new clutch and planetary container cylinder. Refer to WSM, Section 307-01.
12. To reassemble the clutch and planetary assembly, reverse the disassembly procedure. Refer to WSM, Section 307-01.
13. Perform the T3 thrust bearing measurement to set transmission front end clearance. Refer to WSM, Section 307-01.

14. Reassemble the transmission. Refer to WSM, Section 307-01.
15. Install the transmission. Refer to WSM, Section 307-01.
16. 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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