



TECHNICAL SERVICE BULLETIN

Harsh Reverse To Drive Engagements With No DTCs

26-2088

04 March
2026

This bulletin supersedes 24-2249. Reason for update: update the claim quantity of the torque converter nuts, part number and claim quantity of the front support assembly bolt washers, and part number change of the fluid pan from the Parts List.

Model:

Ford 2020-2022 Super Duty	Built on or before 13-Dec-2021 Transmission: 10R140
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Markets: North American markets only

Issue: Some of the vehicles listed in the Model statement above may exhibit a harsh reverse to drive engagements with no DTCs. This may be due to sticking valves in the main control valve body and/or damaged input shaft seals (F9), and the output shaft seals (F10).

Action: For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to perform the transmission accelerated main control break-in routine for the E and F clutches and if necessary, replace the input shaft seals (F9), and the output shaft seals (F10).

Parts

Service Part Number	Claim Quantity	Description	Note
LC3Z-7H223-AA	16	Front Support Assembly Bolt Washers	
LC3Z-7B031-B	1	Front Support-To-Case Seal	
LC3Z-7A248-A	1	Torque Converter Hub Seal	
LC3Z-7G091-D	2	Input Shaft Torque Converter (F0) Teflon Seals	
LC3Z-7052-A	1	Output Shaft Seal (Fixed Flange)	
LC3Z-7052-C	1	Output Shaft Seal (Slip Yoke)	
BC3Z-7G199-E	1	Rear Bushing Fluid Feed Seal (Slip Yoke)	
LC3Z-7052-B	1	Output Shaft Seal (4WD)	
LC3Z-7G091-C	3	Input Shaft Seals (F9)	
LC3Z-7D019-A	3	Output Shaft Seals (F10)	
W520514-S440	4	RH & LH Y-Pipe-To-Exhaust Manifold Nuts	
W715131-S442	1	Transmission Fluid Cooler Tube Bolt	
W714824-S442	2	Selector Lever Cable Bracket Bolts	
W715618-S437	Gas engines requires 4 pieces, Diesel engines requires 6	Torque Converter Nuts	
N605804-S439	11	Transfer Case To Transmission Bolts (4 x 4 Only)	
E4HZ-4A254-B	2	Front Driveshaft Pinion Flange Strap (4 x 4 Only)	
F81Z-4N272-AA	4	Front Driveshaft Pinion Flange Bolts (4 x 4 Only)	
N811880-S100	4	Front Driveshaft CV Joint-To-Transfer Case Flange	

W709771-S440	2	Transmission Mount Support Isolator Nuts	
W710356-S439	4	Crossmember Bracket Bolts	
W520515-S440	4	Crossmember Bracket Nuts	
N605804-S439	4	Transmission Support Insulator Bracket Bolts (2WD Only)	
391558-S102	2	Transmission Support Insulator Bolts	
W714717-S439	2	Exhaust Y-Pipe-To-Resonator Bolts (7.3L Only)	
W714656-S439	4	Exhaust Hanger Bracket Bolts	
W718005-S900	2	Exhaust Lower Downpipe-To-Catalyst And Particulate Filter Assembly Bolts	
XT-10-QLVC	As Needed	Motorcraft® Mercon LV Automatic Transmission Fluid	Transfer Case Fluid, AWD Only
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
XT-12-QULV	As Needed	Motorcraft® Mercon ULV Automatic Transmission Fluid	
XL-5-A	As Needed	Motorcraft® Multipurpose Grease Spray	

Parts - Rear Driveshaft Bolts And Straps - Not All Vehicles Will Use All Of The Parts Listed

Service Part Number	Claim Quantity	Description
F1HZ-4N272-A	4 Per Affected Joint	U-Joint Strap Style Bolts - Refer To The Parts Catalog For The VIN Specific Application
E4HZ-4A254-A	2 Per Affected Joint	U-Joint Straps - Refer To The Parts Catalog For The VIN Specific Application
N811880-S100	4 Per Affected Joint	U-Joint Flange Style Bolts - Refer To The Parts Catalog For The VIN Specific Application
BC3Z-4N272-A	1 Piece Required Per Affected Joint	Driveshaft Center Bearing Bolts - Refer To Parts Catalog For The VIN Specific Application
W500633-S439	1 Piece Required Per Affected Joint	Driveshaft Center Bearing Bolts - Refer To Parts Catalog For The VIN Specific Application

Parts - Parts To Inspect And Replace Only If Necessary

Service Part Number	Claim Quantity	Description
LC3Z-7N265-A	Only If Necessary (1 Possible)	Main Control Manifold Seal
LC3Z-7N265-B	Only If Necessary (1 Possible)	Fluid Pump Gasket
PC3Z-7F396-A	Only If Necessary (1 Possible)	Fluid Pan Gasket
LC3Z-7J227-A	Only If Necessary (4 Possible)	Transmission Fluid Cooler O-Ring Seals
LC3Z-7G186-A	Only If Necessary (1 Possible)	Transmission Fluid Filter
F2AZ-6397-A	Only If Necessary (2 Possible)	Dowel Pins

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
2020-2022 F-Super Duty: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure Repair Complete (Do Not Use With Any Other Labor Operations)	262088A	2.1 Hrs
2020-2022 F-Super Duty 250/350 4X2 6.7L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088B	10.6 Hrs
2020-2022 F-Super Duty 250/350 4X4 6.7L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088C	11.6 Hrs
2020-2022 F-Super Duty 250/350 4X2 6.2L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088D	10.0 Hrs
2020-2022 F-Super Duty 250/350 4X4 6.2L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088E	11.2 Hrs
2020-2022 F-Super Duty 250/350 4X2 7.3L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088F	10.0 Hrs
2020-2022 F-Super Duty 250/350 4X4 7.3L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088G	11.2 Hrs
2020-2022 F-Super Duty 450/550/600 4X2 6.7L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088H	10.6 Hrs
2020-2022 F-Super Duty 450/550/600 4X4 6.7L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088J	11.7 Hrs
2020-2022 F-Super Duty 450/550/600 4X2 7.3L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088K	10.0 Hrs
2020-2022 F-Super Duty 450/550/600 4X4 7.3L: Perform The Transmission Accelerated Main Control Break In Routine, Clear KAM And Adaptive Learning Drive Cycle Following The Service Procedure, Replace The Input And Output Shaft Seals (Do Not Use With Any Other Labor Operations)	262088L	11.2 Hrs

Repair/Claim Coding

Causal Part:	7D019
Condition Code:	42

Service Procedure

1. Prepare vehicle for the PCM/TCM - Transmission Accelerated Main Control Break In routine by positioning on a frame-engaging lift with wheels off the ground to prevent vehicle movement.
2. Using the latest software level of the FDRS scan tool, perform the PCM/TCM - Transmission Accelerated Main Control Break In routine 3 times on the E and F clutches.
3. Clear the KAM.
4. Perform the adaptive learning drive cycle. Refer to the WSM, Section 307-01.
5. Shift the transmission to reverse (R) from drive (D). Wait 2 seconds.
6. Shift the transmission to drive (D) from reverse (R). Wait 2 seconds.
7. Repeat Steps 5 and 6 an additional 6 times for a total of 7 cycles.

NOTE: Advise the customer 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. Does the vehicle still exhibit the condition after performing the PCM/TCM - Transmission Accelerated Main Control Break In routine and adaptive learning drive cycle?

1. Yes - proceed to Step 9.
2. No - repair is complete.

9. Remove the transmission. Refer to the WSM, Section 307-01B.

10. Disassemble the transmission only far enough to access the input shaft seals (F9) and the output shaft seals (F10). Refer to the WSM, Section 307-01B > Overhaul > Transmission. Steps 7-26 are not required.

1. Do not disassemble the clutch and planetary assembly. (Steps 75-213).



CAUTION: Use caution when removing the input shaft seals (F9). Damage may occur as the shaft is not hardened in that location.

11. Replace the input shaft seals (F9) and the output shaft seals (F10).

12. To reassemble the transmission, reverse the disassembly procedure. Refer to the WSM, Section 307-01B.

13. Install the transmission. Refer to the WSM, Section 307-01B.

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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.