

This bulletin supersedes 20-2375. Reason for update: New Part/Procedure For Same Condition

Model:

Ford	Transmission/Transaxle: 10R140
2020 Super Duty	

Summary

This article supersedes TSB 20-2375 to update the Service Procedure and part list.

Issue: Some 2020 F-Super Duty vehicles equipped with a 10R140 automatic transmission may exhibit a harsh engagement/harsh shift/delayed shift with or without an illuminated malfunction indicator lamp (MIL) or diagnostic trouble codes (DTCs) P0729, P0731, P0732, P0733, P0734, P0735, P0736, P076F, P07D9, P07F7, P0751, P0756, P0761, P0766, P0771, P2707, P2700, P2701, P2702, P2703, P2704 and/or P2705 stored in the powertrain control module (PCM) or transmission control module (TCM). This may be due to sticking valves in the main control valve body. Most vehicles will improve and no longer exhibit the condition after the first 8,000 km (5,000 mi) of driving. To correct the condition, follow the Service Procedure steps to perform the transmission accelerated main control break-in routine for the appropriate clutches and/or overhaul main control valve body.

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

- 2020 F-Super Duty
- 10R140 automatic transmission
- At least one of the following conditions:
 - Harsh engagement
 - Harsh shift
 - Delayed shift

• With or without DTCs P0729, P0731, P0732, P0733, P0734, P0735, P0736, P076F, P07D9, P07F7, P0751, P0756, P0761, P0766, P0771, P2707, P2700, P2701, P2702, P2703, P2704 and/or P2705 stored in the PCM or TCM

NOTE: Part quantity refers to the number of that service part number required, which may be different than the number of individual pieces. Service part numbers contain 1 piece unless otherwise stated. "As Needed" indicates the part is required but the number may vary 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

Service Part Number	Quantity	Description	
W712658- S439	1	LPC Retaining Plate Bolt	Package Contains 4 Pieces, 1 Piece Required
LC3Z-7A008-E	1	MCA Separator Plate Kit (Fixed Yoke - All Applications Except 142" Wheelbase)	-
LC3Z-7A008-F	1	MCA Separator Plate Kit (Slip Yoke - 142" Wheelbase)	-
LC3Z-7G007- A	6	Small Shift Solenoid Retainers	Package Contains 1 Piece, 6 Pieces Required
JM5Z-7G007- A	1	Large Shift Solenoid Retainer	-
XT-12-QULV	As	Motorcraft® MERCON® ULV Automatic Transmission	-

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	Needed	Fluid	
Parts To Inspect And Replace Only If Necessary			
LC3Z-7F396-B	lf Needed	Fluid Pan Gasket	-
LC3Z-7G186- A	lf Needed	Fluid Filter	-
LC3Z-7N265-A	lf Needed	Main Control Manifold Seal	-
LC3Z-7N265-B	lf Needed	Fluid Pump Gasket	-

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

Labor Times

Description	Operation No.	Time
2020 F-Super Duty 10R140 Transmission: Retrieve DTCs, Check Odometer And Overhaul The Main Control Valve Body (Do Not Use With Any Other Labor Operations)	212049A	4.5 Hrs.
2020 F-Super Duty 10R140 Transmission: Retrieve DTCs, Check Odometer And Perform The Transmission Accelerated Main Control Break-In Routine Repair Complete (Do Not Use With Any Other Labor Operations)	212049B	2.0 Hrs.
2020 F-Super Duty 10R140 Transmission: Retrieve DTCs, Check Odometer And Perform The Transmission Accelerated Main Control Break-In Routine Overhaul The Main Control Valve Body (Do Not Use With Any Other Labor Operations)		6.0 Hrs.

Repair/Claim Coding

Causal Part:	7A100
Condition Code:	49

Service Procedure

NOTE: Most vehicles will improve and no longer exhibit the condition after the first 8,000 km (5,000 mi) of driving.

1. Does the vehicle have more than 8,000 km (5,000 mi) on the odometer?

(1). Yes - overhaul (clean and inspect) the main control valve body. Refer to Workshop Manual (WSM), Section 307-01. Repair is complete.

(2). No - proceed to Step 2.

2. Are any transmission related DTCs present?

(1). Yes - determine the appropriate clutch(s) to be cycled related to DTCs present. Refer to Workshop Manual (WSM), Section 307-01.

(2). No - determine the appropriate clutch(s) to be cycled related to symptoms present. Refer to WSM, Section 307-01.

3. Record and clear all DTCs present before performing the PCM/TCM - Transmission Accelerated Main Control Break In routine.

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

- **4.** Prepare vehicle for 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.
- **5.** Using the latest software level of the appropriate Ford diagnostic scan tool, perform the PCM/TCM 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/TCM Transmission Accelerated Main Control Break In routine and adaptive learning drive cycle?
 - (1). Yes overhaul (clean and inspect) the main control valve body. Refer to WSM, Section 307-01.
 - (2). No repair is complete.

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.

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.

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