



TECHNICAL SERVICE BULLETIN

10R80 Automatic Transmission - Harsh Engagement Into Drive With Or Without DTCs P0772 And/Or P2704

**20-
2185**
16 June
2020

Model:

Ford 2020 Transit	Transmission/Transaxle: (10R80)
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Issue: Some 2020 Transit vehicles equipped with a 10R80 automatic transmission may exhibit a harsh engagement into drive with or without an illuminated malfunction indicator lamp (MIL) with diagnostic trouble codes (DTCs) P0772 and/or P2704 in the powertrain control module (PCM). 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 160 km (100 mi) of driving. To correct the condition, follow the Service Procedure steps to replace the main control valve body and/or perform drive procedure.

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

- 2020 Transit
- 10R80 automatic transmission
- Harsh forward engagement
- With or without illuminated MIL with DTCs P0772 and/or P2704

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

Part Number		Description	Quantity
7L1Z-7J227-A	Package Contains 2 Pieces, 4 Pieces Required	Fluid Cooler O-ring Seals	2
7T4Z-7Z302-A	-	Transmission Fluid Filter Seal	1
HL3Z-7J227-A	-	Auxiliary Pump Tube O-ring	1
LIMZ-7A100-A	-	Main Control Valve Body	1
W505434-S439	Package Contains 4 Pieces, 4 Pieces Required	Lower Load Path Bar Retainers	1
W506434-S439	Package Contains 4 Pieces, 8 Pieces Required	Lower Load Path Bar Retainers	2
W520215-S442	Package Contains 4 Pieces, 2 Pieces Required For Subframe, 2 Pieces Required For Tie Rods	Front Subframe Forward Nuts (2) / Tie Rod Nuts (2)	1

W711076-S442	Package Contains 4 Pieces, 2 Pieces Required	Lower Ball Joint Nut	1
W711137-S442	Package Contains 4 Pieces, 1 Piece Required	Steering Column Shaft Bolt	1
W716331-S439	Package Contains 4 Pieces, 4 Pieces Required	Transmission Support Bolts	1
XL-2	-	Motorcraft® High Temperature Nickel Anti-Seize Lubricant (DRW Vehicles)	As Needed
Inspect And Replace Only If Necessary			
W718943-S439	Package Contains 4 Pieces, 2 Pieces Required	Front Subframe Rearward Nuts	If Needed
W715922-S442	Package Contains 4 Pieces, 2 Pieces Required	Lower Front Stabilizer Bar Link Rod Nut	If Needed
XT-12-QULV	-	Motorcraft® MERCON® ULV Automatic Transmission Fluid	If Needed

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/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 Transit 10R80 Transmission: Check DTCs And Or Odometer, Perform The Drive Procedure (Pass) (Do Not Use With Any Other Labor Operations)	202185A	0.7 Hrs.
2020 Transit 10R80 Transmission: Check DTCs And Or Odometer And Replace The Main Control Valve Body (Do Not Use With Any Operations Outside Of This Article)	202185B	4.5 Hrs.
2020 Transit 10R80 Transmission: Check DTCs And Or Odometer, Perform The Drive Procedure (Fail) And Replace The Main Control Valve Body (Do Not Use With Any Operations Outside Of This Article)	202185C	5.1 Hrs.
2020 Transit Without Lane Departure: Additional Time To Perform Alignment (Can Be Claimed With Labor Operation B Or C)	202185D	0.8 Hrs.
2020 Transit With Lane Departure: Additional Time To Perform Alignment (Can Be Claimed With Labor Operation B Or C)	202185E	1.2 Hrs.
2020 Transit Additional Time To Remove And Install Running Boards When Necessary (Can Be Claimed With Operation B Or C)	202185F	0.3 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 160 km (100 mi) of driving.

1. Does the vehicle exhibit DTCs P0772 and/or P2704?

- (1). Yes - replace the main control valve body. Refer to Workshop Manual (WSM), Section 307-01. Repair is complete.
- (2). No - proceed to Step 2.

2. Does the vehicle have more than 160 km (100 mi) on the odometer?

- (1). Yes - replace the main control valve body. Refer to WSM, Section 307-01. Repair is complete.
- (2). No - proceed to Step 3.

3. Perform the following drive procedure at normal operating temperature.

- (1). Perform reverse engine stalls at 1500 revolutions per minute (RPM) for 6 seconds. Hold neutral at 1500-2000 RPM for 5-10 seconds. Repeat for a total of 8 times.
- (2). Let the vehicle idle for 5 minutes.
- (3). Perform reverse engine stalls at 1500 revolutions per minute (RPM) for 6 seconds. Hold neutral at 1500-2000 RPM for 5-10 seconds. Repeat for a total of 8 times.
- (4). Drive the vehicle for 5 minutes under 40 mph for roughly 2-3 miles.
- (5). Perform drive engine stalls at 1500 RPM for 6 seconds. Hold neutral at 1500-2000 RPM for 10 seconds. Repeat for a total of 8 times.
- (6). Accelerate from a stop with light throttle ensuring that the 1-2, 2-3, 3-4, 4-5, 5-6, 6-7, 7-8 shifts occur at engine speeds below approximately 2500 RPM (a 1-3 shift may occur in place of a 1-2 shift, which is normal operation). Continue to accelerate for at least 2 seconds after 7-8 shift. Driving from 8th gear or above, brake very gently to a complete stop allowing all the coast down shifts to occur. Repeat for a total of 8 times. The closed pedal coasting downshifts should now be smooth.
- (7). Shift the vehicle from NEUTRAL to REVERSE and NEUTRAL to DRIVE 6 to 8 times to confirm that adaptation produced acceptable shift quality.

4. Does the vehicle still exhibit the condition after the drive procedure?

- (1). Yes - replace 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.