



TECHNICAL SERVICE BULLETIN

10R140 Automatic Transmission - Fluid Leak At The Selector Shaft Seal - Built On Or Before 31-Jul-2022

22-2450

23 November
2022

Model:

Ford 2022 F-Super Duty	Transmission/Transaxle: 10R140 Built on or before 31-Jul-2022
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Issue: Some 2022 F-Super Duty vehicles built on or before 31-Jul-2022 equipped with a 10R140 automatic transmission may exhibit a fluid leak from the selector shaft seal. This may be caused by a crack in the manual shaft. To correct this condition, follow the Service Procedure to replace the manual shaft, the manual shaft-to-sensor roll pin and the selector shaft seal.

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

- 2022 F-Super Duty
- Built on or before 31-Jul-2022
- 10R140 automatic transmission
- Transmission fluid leak at the selector shaft seal area

Parts

Service Part Number	Quantity	Description
LC3Z-7C493-A	1	Manual Shaft
HL3Z-7G100-B	1	Manual Shaft-To-TR Sensor Roll Pin
HL3Z-7F337-A	1	Selector Shaft Seal
XT-12-QULV	As Needed	Motorcraft® MERCON® ULV Automatic Transmission Fluid

Parts

Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description
LC3Z-7N265-A	If Needed	Main Control Manifold Seal
LC3Z-7N265-B	If Needed	Fluid Pump Gasket
LC3Z-7F396-C	If Needed	Transmission Fluid Pan Gasket

As Needed indicates the 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.

If Needed indicates the part is not mandatory.

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
2022 F-Super Duty: Replace The Selector Shaft Seal Following The Service Procedure (Do Not Use With Any Other Labor Operations)	222450A	2.5 Hrs.

Repair/Claim Coding

Causal Part:	7C493
Condition Code:	01

Service Procedure

1. Remove the main control valve body. Refer to Workshop Manual (WSM), Section 307-01B.
2. Disconnect the selector lever cable from the transmission manual lever. Refer to WSM, Section 307-01B.
3. Remove the nut and the manual lever. Refer to WSM, Section 307-01B.
4. Remove and discard the manual shaft-to-transmission range (TR) sensor roll pin. Refer to WSM, Section 307-01B.
5. Loosen the detent spring bolt and the detent spring enough to remove tension from the TR sensor. Refer to WSM, Section 307-01B.
6. Remove and discard the manual shaft.
7. Remove and discard the selector shaft seal.
8. Install a new selector shaft seal. Refer to WSM, Section 307-01B.
9. Install a new manual shaft. Refer to WSM, Section 307-01B.

NOTE: Verify correct installation of the park pawl actuator rod into the park pawl sleeve and the TR sensor as the components may shift with removal of the manual shaft.

10. Align the TR sensor roll pin hole with the new manual shaft and install a new manual shaft-to-sensor roll pin. Refer to WSM, Section 307-01B.
11. Tighten the detent spring bolt. Refer to WSM, Section 307-01B.
12. Reinstall the manual lever and nut. Refer to WSM, Section 307-01B.
13. Reinstall the main control valve body. Refer to WSM, Section 307-01B.
14. Reconnect the selector lever cable to the transmission manual lever. Adjust the selector lever cable. Refer to WSM, Section 307-05B.
15. Fill and check the transmission fluid. Refer to WSM 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.