



# TECHNICAL SERVICE BULLETIN

## 10R140 Transmission - Ticking Or Scraping Noise Coming From Bellhousing

**21-2100**  
01 April 2021

This bulletin supersedes 20-2408. Reason for update: Concern Carryover to New Model

### Model:

Ford 2020-2021 F-Super Duty	Transmission/Transaxle: (10R140)
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### Summary

This article supersedes TSB 20-2408 to update the vehicles affected and Part List.

**Issue:** Some 2020-2021 F-Super Duty vehicles equipped with a 10R140 transmission may exhibit a ticking or scraping noise coming from the bellhousing. The noise may or may not go away while in PARK and/or NEUTRAL. This may be due to the torque converter studs contacting the flexplate inspection cover and/or internal torque converter damper spring contact. To correct the condition, inspect and adjust the flexplate inspection cover (gas engine only) and/or replace the torque converter (gas or diesel engine).

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

- 2020-2021 F-Super Duty
- 10R140 automatic transmission
- Ticking or scraping noise coming from the bellhousing

**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.

### Parts

Part Number		Description	Quantity
E4HZ-4A254-A	Package Contains 1 Piece, 4 Pieces Required	Rear Driveshaft Pinion Flange Strap	4
E4HZ-4A254-B	Package Contains 1 Piece, 2 Pieces Required	Front Driveshaft Pinion Flange Strap (4x4 Only)	2
BC3Z-4N272-A	Package Contains 1 Piece, 2 Pieces Required	Rear Driveshaft Center Bearing Bolts (If Equipped)	2
F1HZ-4N272-A	Package Contains 1 Piece, 8 Pieces Required	Rear Driveshaft Pinion Flange Strap Bolts	8
F81Z-	Package Contains 4 Pieces, 4 Pieces Required	Front Driveshaft Pinion Flange Bolts (4x4 Only)	1

4N272-AA			
LC3Z-7A248-A	-	Torque Converter Hub Seal	1
N605804-S439	Package Contains 4 Pieces, 11 Pieces Required	Transfer Case To Transmission Bolts (4x4 Only)	3
N811880-S100	Package Contains 4 Pieces, 12 Pieces Required	Driveshaft Flange Bolts (4x4 Only)	3
W520514-S440	Package Contains 1 Piece, 4 Pieces Required	Y-pipe To Exhaust Manifold Nuts	4
W520515-S440	Package Contains 4 Pieces, 4 Pieces Required	Crossmember Bracket Nuts	1
W709771-S440	Package Contains 1 Piece, 2 Pieces Required	Transmission Mount Isolator Nuts (RWD Only)	2
W714824-S442	Package Contains 4 Pieces, 2 Pieces Required	Selector Lever Cable Bracket Bolts	1
W715131-S442	Package Contains 4 Pieces, 1 Piece Required	Fluid Cooler Tube Bolt	1
W715618-S437	Package Contains 4 Pieces, 4 Required For Gas Engines, 6 Required For Diesel Engines	Torque Converter Nuts	1 For Gas, 2 For Diesel
W718005-S900	Package Contains 2 Pieces, 2 Pieces Required	Exhaust Lower Downpipe Assembly Bolts (Diesel Only)	1
W710356-S439	Package Contains 4 Pieces, 4 Pieces Required	Crossmember Bracket Bolts	1
LC3Z-7902-A	-	Torque Converter (Diesel)	1
LC3Z-7902-B	-	Torque Converter (Gas)	1
TA-24-B	-	Motorcraft® Thread Sealant with PTFE	As Needed
XL-5-A	-	Motorcraft® Multi-Purpose Grease Spray	As Needed
XT-10-QLVC	-	Motorcraft® MERCON® LV Automatic Transmission Fluid (Transfer Case) (All Markets Except Canada)	As Needed
CXT-10-LV6	-	Motorcraft® MERCON® LV Automatic Transmission Fluid (Transfer Case) (Canada Only)	As Needed
XT-12-QULV	-	Motorcraft® MERCON® ULV Automatic Transmission Fluid	As Needed
VC-13DL-G	-	Motorcraft® Yellow Prediluted Antifreeze/Coolant (All Markets Except Canada)	As Needed
CVC-	-	Motorcraft® Yellow Prediluted Antifreeze/Coolant (Canada Only)	As Needed

**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
2020-2021 F-Super Duty 10R140 Transmission: Diagnose, Adjust Flexplate Inspection Cover And/Or Replace The Torque Converter Following The Service Procedure (Do Not Use With Any Other Labor Operations)	MT212100	Actual Time

### Repair/Claim Coding

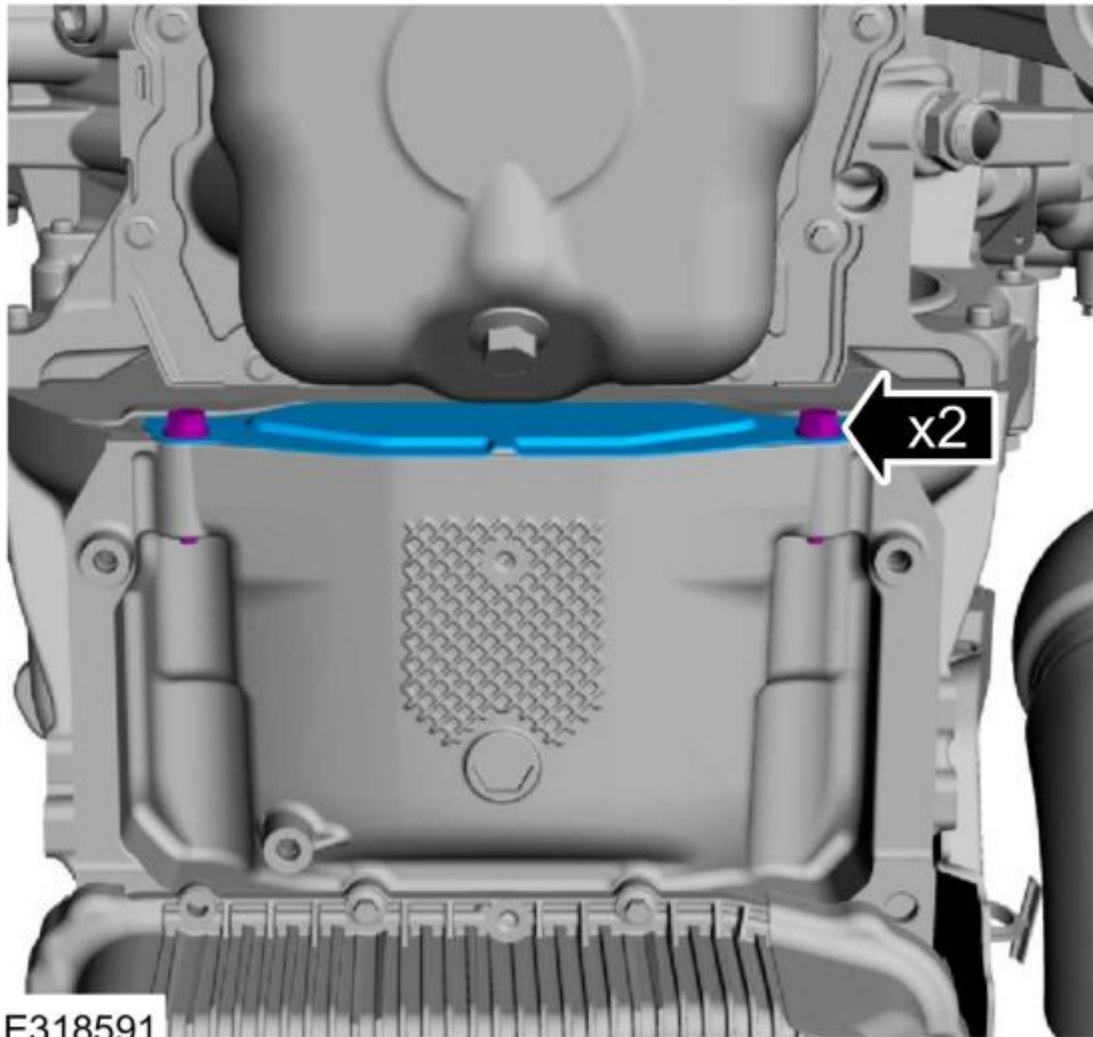
Causal Part:	7902
Condition Code:	07

### Service Procedure

1. Is the vehicle equipped with a 6.2L or 7.3L gas engine?

- (1). Yes - remove and inspect the flexplate inspection cover for contact with the torque converter studs. If contact is found, adjust the cover so contact does not occur. Refer to Figure 1.
- (2). No - proceed to Step 3.

Figure 1



- E318591
2. Does the vehicle exhibit the condition after adjusting the flexplate inspection cover?
    - (1). Yes - proceed to Step 3.
    - (2). No - repair is complete.
  3. Does the noise go away while in PARK and/or NEUTRAL?
    - (1). Yes - proceed to Step 4.
    - (2). No - this article does not apply. Refer to the Workshop Manual (WSM), Section 100-04 for normal diagnosis.
  4. Replace the torque converter. Refer to WSM, Section 307-01.

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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.