



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

Service Part Number	Quantity	Description	
E4HZ-4A254-A	4	Rear Driveshaft Pinion Flange Strap	Package Contains 1 Piece, 4 Pieces Required
E4HZ-4A254-B	2	Front Driveshaft Pinion Flange Strap (4x4 Only)	Package Contains 1 Piece, 2 Pieces Required
BC3Z-4N272-A	2	Rear Driveshaft Center Bearing Bolts (If Equipped)	Package Contains 1 Piece, 2 Pieces Required
F1HZ-4N272-A	8	Rear Driveshaft Pinion Flange Strap Bolts	Package Contains 1 Piece, 8 Pieces Required
F81Z-4N272-AA	1	Front Driveshaft Pinion Flange Bolts (4x4 Only)	Package Contains 4 Pieces, 4 Pieces Required
LC3Z-7A248-A	1	Torque Converter Hub Seal	-
N605804-S439	3	Transfer Case To Transmission Bolts (4x4 Only)	Package Contains 4 Pieces, 11 Pieces Required
N811880-S100	3	Driveshaft Flange Bolts (4x4 Only)	Package Contains 4 Pieces, 12 Pieces Required
W520514-S440	4	Y-pipe To Exhaust Manifold Nuts	Package Contains 1 Piece, 4 Pieces Required

W520515-S440	1	Crossmember Bracket Nuts	Package Contains 4 Pieces, 4 Pieces Required
W709771-S440	2	Transmission Mount Isolator Nuts (RWD Only)	Package Contains 1 Piece, 2 Pieces Required
W714824-S442	1	Selector Lever Cable Bracket Bolts	Package Contains 4 Pieces, 2 Pieces Required
W715131-S442	1	Fluid Cooler Tube Bolt	Package Contains 4 Pieces, 1 Piece Required
W715618-S437	1 For Gas, 2 For Diesel	Torque Converter Nuts	Package Contains 4 Pieces, 4 Required For Gas Engines, 6 Required For Diesel Engines
W718005-S900	1	Exhaust Lower Downpipe Assembly Bolts (Diesel Only)	Package Contains 2 Pieces, 2 Pieces Required
W710356-S439	1	Crossmember Bracket Bolts	Package Contains 4 Pieces, 4 Pieces Required
LC3Z-7902-A	1	Torque Converter (Diesel)	-
LC3Z-7902-B	1	Torque Converter (Gas)	-
TA-24-B	As Needed	Motorcraft® Thread Sealant with PTFE	-
XL-5-A	As Needed	Motorcraft® Multi-Purpose Grease Spray	-
XT-10-QLVC	As Needed	Motorcraft® MERCON® LV Automatic Transmission Fluid (Transfer Case) (All Markets Except Canada)	-
CXT-10-LV6	As Needed	Motorcraft® MERCON® LV Automatic Transmission Fluid (Transfer Case) (Canada Only)	-
XT-12-QULV	As Needed	Motorcraft® MERCON® ULV Automatic Transmission Fluid	-
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)	-

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

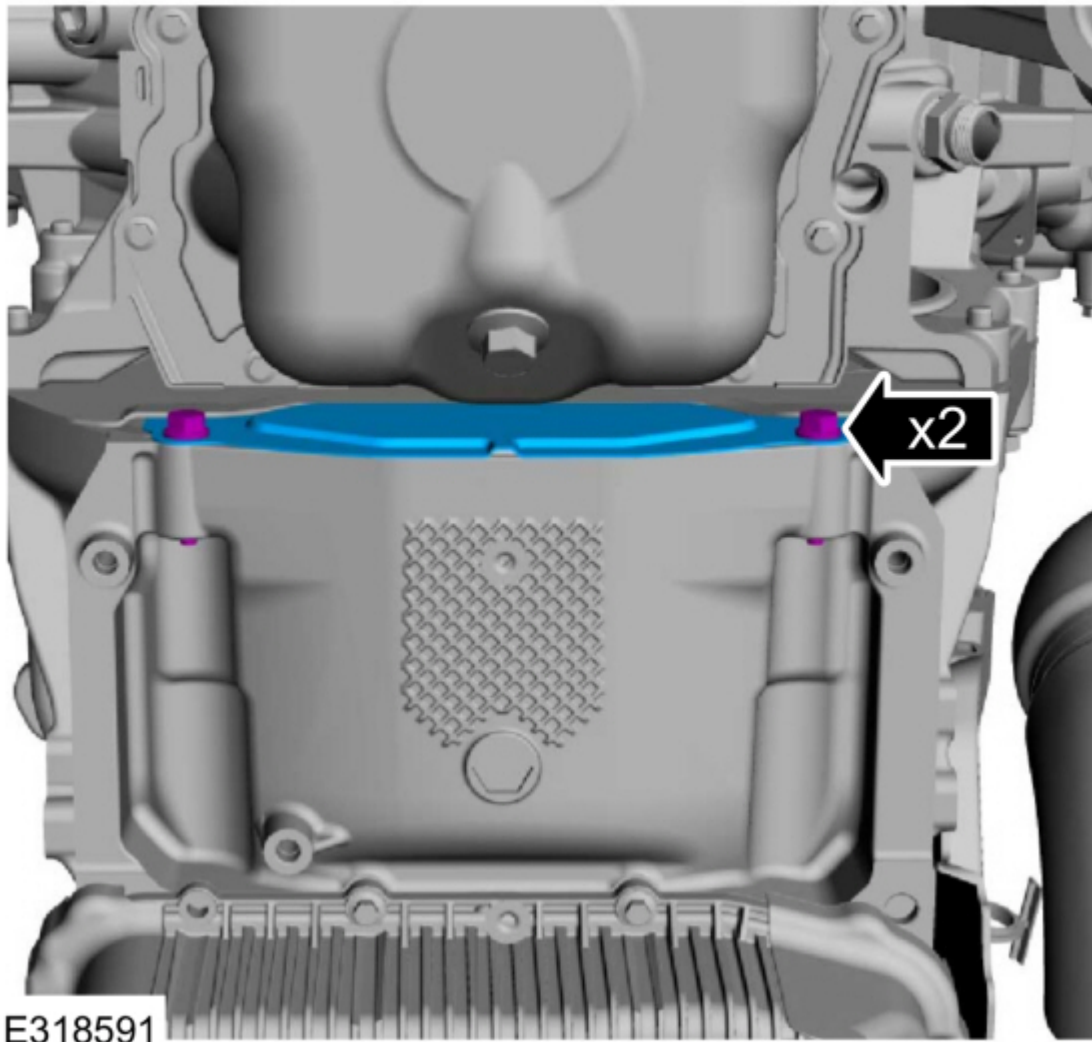
Service Procedure

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



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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