



# TECHNICAL SERVICE BULLETIN

## HF45 Transmission - Rattle Noise On Cold Start

**22-2061**

24 February  
2022

### Model:

<b>Ford</b> 2020-2022 Escape	Transmission/Transaxle: HF45
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### Summary

This article supersedes TSB 21-2129 to update the Service Procedure and Part List.

**Issue:** Some 2020-2022 Escape vehicles equipped with an HF45 transmission may exhibit a rattle noise on cold start up only when the engine is running. This noise may be more prevalent in cold weather conditions, typically at or below 0°C (32°F). This may be due to the software in the secondary on-board diagnostic control module C (SOBDMC) and on some vehicles also from the flywheel damper assembly. To correct this condition, follow the Service Procedure steps to reprogram the SOBDMC and if necessary replace the flywheel damper assembly.

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

- 2020-2022 Escape
- Rattle noise on cold start up only when the engine is running

### Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
NZ6Z-7550-A	1	Flywheel Damper		
W718843-S439	1	Steering Column Bolt		
JX6Z-3D677-C	1	Steering Column Seal		
CCPZ-3B477-G	2	Axle Wheel Hub Nut	1	2
W520203-S440	1	Tie Rod Nut	4	2
W520515-S442	1	Ball Joint Nut	4	2
W719924-S439	1	Ball Joint Bolt	4	2
YS4Z-3N324-AA	1	Right Halfshaft Retaining Strap		
W520102-S442	1	Right Halfshaft Retaining Strap Nut	4	2
JM5Z-1S177-A	2 FWD, 1 AWD	Axle Seal (Left Side For AWD)	1	2 FWD, 1 AWD
JM5Z-7H260-A	1	Right Axle Seal Kit (AWD)		
W719813-S440	1	Sway Bar Nut	4	2
JX6Z-3B498-B	1	Axle Retaining Circlip		
BB5Z-4B422-C	1	Axle Retaining C-clip (AWD)		
W520214-S440	1	Engine Mount Nut	3	3
LX6Z-4B496-A	1	Driveshaft To PTU Bolts (AWD)		
W719767-S439	1	Intermediate Shaft Bolts (AWD)	4	2
K2GZ-7086-A	1	Dust Seal (AWD)		
W720388-S439	1	Chassis Frame Bolt	4	2
W713199-S439	1	Chassis Frame Bolt	4	4

W719192-S439	1	Chassis Frame Bolt	4	2
DL3Z-19B596-B	1	A/C Compressor O-ring		
1W1Z-19E889-HB	1	A/C Compressor O-ring	6	1
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)		

## Parts

### Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue
W702413-S450B	If Needed	Underbody Cover Screw	4
W711712-S300	If Needed	Push Clip	4
W717422-S439	If Needed	Underbody Cover Nut	4
W701350-S437	If Needed	Dowel Pin	4

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

Unit of Issue and Piece Quantity are 1 unless otherwise stated.

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
2020-2022 Escape HF45: Reprogram The Appropriate Modules As Required By The Software Update And Service Procedure (Do Not Use With Any Other Labor Operations Outside Of This Article)	MT222061	Actual Time
2020-2022 Escape FWD HF45: Replace The Flywheel Damper Assembly (Can Be Claimed With Operation MT And C)	222061A	11.0 Hrs.
2020-2022 Escape AWD HF45: Replace The Flywheel Damper Assembly (Can Be Claimed With Operation MT And C)	222061B	11.7 Hrs.
2020-2022 Escape FWD/AWD HF45: Additional Time To Check And Adjust Front Toe (Can Be Claimed With Operation A Or B)	222061C	0.6 Hrs.

## Repair/Claim Coding

Causal Part:	7550
Condition Code:	42

## Service Procedure

1. Reprogram the PCM using the latest software level of the appropriate Ford diagnostic scan tool.

2. Check the availability for software updates on the following modules (if equipped) and update as required:

- (1). Secondary on-board diagnostic control module (SOBDM)
- (2). Battery energy control module (BECM)
- (3). Secondary on-board diagnostic control module B (SOBDMB)
- (4). Secondary on-board diagnostic control module C (SOBDMC)
- (5). Anti-lock brake system (ABS) module

**NOTE: Only one module may be updated at a time.**

3. Did the software update correct the condition?

- (1). Yes - repair is complete.
- (2). No - proceed to Step 4.

4. Replace the flywheel damper assembly. Refer to Workshop Manual (WSM), Section 303-01C.

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