



# TECHNICAL SERVICE BULLETIN

## Transmission Fluid Leak From Fluid Cooler Tubes At Transmission - Improperly Seated/Cracked Transmission Cooler Tube

21-2148

30 August  
2021

This bulletin supersedes 21-2108. Reason for update: New Part/Procedure For Same Condition

### Model:

Ford 2020-2021 Mustang GT 500
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### Summary

This article supersedes TSB 21-2108 to update the issue, action, and Service Procedure.

**Issue:** Some 2020-2021 Mustang GT500 vehicles may exhibit a transmission fluid leak caused by improperly seated or cracked transmission cooler tubes attached to the transmission case. This may be due to the retaining bolts being cross threaded causing the seals to leak and/or crack the lines. If the threads in the transmission case that the cooler tube retaining bolts go into are damaged, it is not necessary to replace the transmission. These threads can be repaired. To correct the condition, follow the Service Procedure to repair these threads and replace the tubes.

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

- 2020-2021 Mustang GT500
- Transmission fluid leak caused by improperly seated or cracked transmission cooler tubes with damaged cooler tube retaining bolt threads in the transmission

**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

Service Part Number	Quantity	Description	
KR3Z-7C013-A	1	Transmission Fluid Filter Housing Cover	-
KR3Z-7R081-C	1	Transmission Fluid Cooler Tube	-
KR3Z-7R081-A	1	Transmission Fluid Cooler Tube	-
Obtain Locally	1	Thread Repair Kit	-
XT-14-L	As Needed	Motorcraft® Dual Clutch Transmission Fluid	-
Parts To Inspect And Replace Only If Necessary			
W721914-S450	If Needed	Transmission Fluid Cooler Tube Retaining Bolt	Package Contains 4 Pieces
5L7Z-7D285-A	If Needed	Backing Ring	Package Contains 2 Pieces
5L7Z-7J324-A	If Needed	Band Seal	Package Contains 2 Pieces
KR3Z-7C045-B	If Needed	Transmission Oil Filter Kit	-

**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 Mustang GT500: Inspect And Replace The Transmission Fluid Filter Cover And Fluid Cooler Tubes, Includes Time To Adjust Transmission Fluid Level, Front Port Only (Do Not Use With Any Other Labor Operations)	212148A	1.4 Hrs.
2020-2021 Mustang GT500: Inspect And Repair The Threads On The Rear Port And Replace The Fluid Cooler Tubes, Includes Time To Adjust Transmission Fluid Level, Rear Port Only (Do Not Use With Any Other Labor Operations)	212148B	1.4 Hrs.
2020-2021 Mustang GT500: Inspect And Repair The Threads On The Rear Port, Replace The Transmission Fluid Filter Cover And Replace The Fluid Cooler Tubes, Includes Time To Adjust Transmission Fluid Level (Do Not Use With Any Other Labor Operations)	212148C	1.6 Hrs.

### Repair/Claim Coding

Causal Part:	7003
Condition Code:	24

### Service Procedure

- Determine which fluid cooler tube port on the transmission has damaged threads.
  - If the front port is damaged, replace the transmission fluid filter cover. Refer to Workshop Manual (WSM), Section 307-01B. Proceed to Step 2.
  - If the rear port is damaged, proceed to Step 2.
- Remove and discard the transmission fluid cooler tubes. Refer to WSM, Section 307-02B, Removal and Installation, Transmission Fluid Cooler Tubes, Steps 1,2,3,4,8,9,10,11.
- Cover the fluid cooler tube ports in the side of the transmission to prevent any debris from entering the transmission.
- Using a M6 x 1 x 12mm thread repair insert kit, repair the damaged threads in the transmission case. Use the instructions contained with the kit to install the thread repair kit.
- Thoroughly clean the repair area.
- Install the new rear transmission fluid cooler tubes. Refer to WSM, Section 307-02B. Replace the rear transmission fluid cooler tube retaining bolt(s) as necessary.
- Verify the proper transmission fluid level. Add fluid as necessary.
- Make sure no leaks are present after making the repair. If any leaks are found, refer to WSM, Section 307-01B.

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