



TECHNICAL SERVICE BULLETIN

Rear Differential Fluid Leak At Cooler Line Fittings

21-233023 September
2021**Model:**

Ford 2020-2021 Mustang Mach 1
2020 Mustang Shelby GT350
2020-2021 Mustang Shelby GT500

Issue: Some 2020 Mustang Shelby GT350, 2020-2021 Mustang Mach 1/Shelby GT500 vehicles may exhibit a rear differential fluid leak at the differential cooler line fittings. This may be due to a seal within the fittings. To correct the condition, follow the service procedure to replace both rear differential cooler line fittings.

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

- One of the following vehicles:
 - 2020 Mustang Shelby GT350
 - 2020-2021 Mustang Mach 1
 - 2020-2021 Mustang Shelby GT500
- Rear differential fluid Leak at the cooler line fittings located on the rear axle assembly

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
MR3Z-6K741-A	Package Contains 1 Piece, 2 Pieces Required	Oil Cooler Adapter	2
XY-75W85-QL	-	Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant	As Needed
XL-3	-	Motorcraft® Additive Friction Modifier	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 Mustang Shelby GT350, 2020-2021 Mustang Mach 1/Shelby GT500: Inspect And Replace The Cooler Line Fittings On The Rear Axle Includes Time To Check And Adjust Differential Fluid (Do Not Use With Any Other Labor Operations)	212330A	0.6 Hrs.

Repair/Claim Coding

Causal Part:	6K741
Condition Code:	D8

Service Procedure

1. Disconnect the cooler lines from the rear axle housing. Refer to Workshop Manual (WSM), Section 205-02 Rear Drive Axle/Differential > Removal and Installation > Axle Assembly > Removal Steps 8-9. The differential fluid will drain out of the axle assembly during this step.
2. Remove and discard both fittings from the axle housing.
3. Install the new fittings. Tighten both fittings to 23 Nm (17 lb-ft).
4. Reinstall the cooler lines. Refer to WSM, Section 205-02 Rear Drive Axle/Differential > Removal and Installation > Axle Assembly > Installation Steps 4-6.
5. Refill the axle to the proper fill level. Refer to WSM Section 205-02 Rear Drive Axle/Differential > General Procedures > Differential Fluid Level Check.

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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.