



TECHNICAL SERVICE BULLETIN

5.0L - MT82 Manual Transmission - Inability To Drive In First And Second Gear

22-2373

04 January
2023

This bulletin supersedes 18-2267.

Model:

Ford 2018-2019 Mustang	Engine: 5.0L Transmission/Transaxle: 6 MT82
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Summary

This article supersedes TSB 18-2267 to update the Parts List.

Issue: Some 2018-2019 Mustang vehicles equipped with a 5.0L engine and an MT82 manual transmission may exhibit an inability to drive the vehicle in first and/or second gear. This may be due to a broken 1-2 shift fork. To correct the condition, follow the Service Procedure to replace the first/second shift fork, the mainshaft second gear, and the first/second gear synchronizer hub and sleeve.

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

- 2018-2019 Mustang
- 5.0L engine
- MT82 Manual transmission
- Inability to drive the vehicle in first and/or second gear

Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
JR3Z-7230-F	1	First/Second Shift Fork	1	1
JR3Z-7102-A	1	Mainshaft Second Speed Gear	1	1
JR3Z-7124-C	1	First/Second Gear Synchronizer Hub and Sleeve	1	1
JR3Z-7052-A	1	Output Shaft Seal	1	1
W719298-S439	1	Bolt M12 X 56 MM	4	3
FR3Z-4B496-B	3	Bolt And Washer, M10 x 1.5 MM	1	3
W717822-S439	1	Bolt M10 x 19 MM	4	2
BR3Z-5B266-A	1	Exhaust Gasket	1	1
W705443-S900	1	Nut M10 x 1.5MM	4	2
TA-25-B	As Needed	Motorcraft® Threadlock and Sealer		
TA-16	As Needed	Motorcraft® Gasket Maker		
TA-26	As Needed	Motorcraft® Threadlock 262		
XG-11	As Needed	Motorcraft® High Temperature 4x4 Front Axle and Wheel Bearing Grease		
XL-2	As Needed	Motorcraft® High Temperature Nickel Anti-Seize Lubricant		

XL-1	As Needed	Motorcraft® Penetrating and Lock Lubricant		
XL-18	As Needed	Motorcraft® MT82 Transmission Additive XL-18a		
XT-11-QDC	As Needed	Motorcraft® Dual Clutch Transmission Fluid		

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.

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.

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
2018-2019 Mustang Coupe 5.0L With Manual Transmission: Replace The 1-2 Shift Fork And Second Gear Includes Time To Remove And Install Transmission (Do Not Use With Any Other Labor Operations)	222373A	5.5 Hrs.
2018-2019 Mustang Convertible 5.0L With Manual Transmission: Replace The 1-2 Shift Fork And Second Gear Includes Time To Remove And Install Transmission (Do Not Use With Any Other Labor Operations)	222373B	6.1 Hrs.

Repair/Claim Coding

Causal Part:	7230
Condition Code:	01

Service Procedure

- Does the shifter move into the first and second gear positions when attempting to engage these gears but the vehicle will not move?
 - Yes - proceed to Step 2.
 - No - this article does not apply. Refer to Workshop Manual (WSM), Section 308-03A for normal diagnostics.
- Remove the transmission from the vehicle. Refer to WSM, Section 308-03A.
- Disassemble the transmission to the point where the 1-2 shift fork and second gear can be accessed. Refer to the transmission disassembly procedure in WSM, Section 308-03A. Perform Steps 1 and 2 of this procedure then perform Steps 10 through 29. Do not proceed to Step 30.
 - Steps 14 and 15 are only necessary for 2018 vehicles.
 - In Step 17, only remove the shift rail detents in the rear transmission housing. It is not necessary to remove the other shift rail detents.
- Replace the first/second shift fork, the mainshaft second gear, and the first/second gear synchronizer hub and sleeve. Refer to WSM, Section 308-03A.
- Reassemble the transmission. Refer to the transmission assembly procedure in WSM, Section 308-03A and perform Steps 18 through 52.
 - Steps 46 and 47 are only necessary for 2018 vehicles.
- Install the transmission into the vehicle. Refer to WSM, Section 308-03A.

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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.