



## TECHNICAL SERVICE BULLETIN

### Illuminated MIL With Intermittent No Reverse Or Harsh Reverse

**25-2127**

06 June 2025

**Model:**

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Ford</b><br>2023-2024 Maverick | 8F35 Transmission |
| 2023-2024 Bronco Sport            | 8F35 Transmission |

**Markets:** North American markets only**Issue:** Some of the vehicles listed in the Model statement above may exhibit at least one of the following conditions:

- Intermittent or constant no R engagement
- Illuminated MIL with DTC P0767:00 stored in the PCM

In addition to the required conditions, the vehicle may also exhibit a harsh reverse engagement, DTCs P0766:00, and/or P2703:00. This may be due to an internal mechanical concern with the SOWC.

**Action:** For vehicles that meet all of the criteria in the Issue and Model statements, follow the Service Procedure to replace the SOWC.

**Parts**

| Service Part Number | Claim Quantity                             | Package Order Quantity                     | Number in Package | Description               |
|---------------------|--------------------------------------------|--------------------------------------------|-------------------|---------------------------|
| JM5Z-7P030-C        | 1                                          | 1                                          | 1                 | Selectable One-Way Clutch |
| JM5Z-7N265-E        | 2                                          | 2                                          | 1                 | Small Clutch Feed Seal    |
| JM5Z-7N265-G        | 3                                          | 3                                          | 1                 | Large Clutch Feed Seal    |
| JM5Z-7N142-A        | 1                                          | 1                                          | 1                 | Back O-Ring Seal          |
| JM5Z-7N142-D        | 1                                          | 1                                          | 1                 | Front O-Ring Seal         |
| JM5Z-1S177-A        | 2 (2 Required for 2WD, 1 Required For AWD) | 2 (2 Required for 2WD, 1 Required For AWD) | 1                 | Axle Seal                 |

|              |   |   |   |                                         |
|--------------|---|---|---|-----------------------------------------|
| JM5Z-7A248-E | 1 | 1 | 1 | Torque Converter Hub Seal               |
| JM5Z-7Z490-D | 1 | 1 | 1 | Upper Separator Plate Gasket            |
| JM5Z-7Z490-B | 1 | 1 | 1 | Lower Separator Plate Gasket            |
| W718843-S439 | 1 | 1 | 4 | Steering Shaft Bolt                     |
| W716603-S442 | 4 | 1 | 4 | Front Cross-member Bolts                |
| W500727-S439 | 3 | 1 | 4 | Rear Lower Left Side Frame Bolt (75mm)  |
| W500725-S439 | 3 | 1 | 4 | Rear Lower Right Side Frame Bolt (65mm) |
| W721130-S439 | 4 | 1 | 4 | Front Lower Frame Bolt                  |
| W520203-S440 | 2 | 2 | 1 | Tie Rod Nut                             |
| W712503-S440 | 2 | 2 | 1 | Lower Sway Bar Nut                      |
| W719924-S439 | 2 | 1 | 4 | Bronco Sport Ball Joint Bolt            |
| W721614-S439 | 2 | 1 | 4 | Maverick Ball Joint Bolt                |
| W520515-S442 | 2 | 1 | 4 | Ball Joint Nut                          |
| W500566-S439 | 1 | 1 | 4 | Roll Restrictor Bolt                    |
| W713199-S442 | 4 | 1 | 4 | Rear Frame Bracket Bolt                 |
| W720388-S439 | 2 | 1 | 4 | Rear Sub-Frame Bolt                     |
| W719192-S439 | 2 | 1 | 4 | Upper Sub-Frame Bolt                    |
| JX6Z-3D677-C | 1 | 1 | 1 | Steering Shaft Seal                     |
| CCPZ-3B477-G | 2 | 2 | 1 | Half Shaft Retaining Nut                |

|               |           |           |   |                                                                                                                                                              |
|---------------|-----------|-----------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| W520102-S442  | 2         | 1         | 4 | Half Shaft Retainer Strap Nut (Maverick Only)                                                                                                                |
| YS4Z-3N324-AA | 1         | 1         | 1 | Half Shaft Retainer Strap (Maverick Only)                                                                                                                    |
| W714265-S442  | 3         | 1         | 4 | Exhaust Nut                                                                                                                                                  |
| KX6Z-6L612-A  | 1         | 1         | 1 | Exhaust Gasket                                                                                                                                               |
| PZ1Z-5A215-B  | 1         | 1         | 1 | Upper Exhaust Clamp (Bronco Sport Only)                                                                                                                      |
| JX6Z-5A215-C  | 1         | 1         | 1 | Lower Exhaust Clamp (Bronco Sport Only)                                                                                                                      |
| LX6Z-5A215-A  | 1         | 1         | 1 | Exhaust Clamp (Maverick Only)                                                                                                                                |
| W715618-S437  | 4         | 1         | 4 | Torque Converter Nut                                                                                                                                         |
| W720206-S439  | 3         | 1         | 4 | Transmission Mount Bolt (Bronco Sport Only)                                                                                                                  |
| W719151-S439  | 1         | 1         | 4 | Transmission Mount Stud Bolt                                                                                                                                 |
| JM5Z-7G007-A  | 6         | 6         | 1 | Valve Body Solenoid Mounting Plate                                                                                                                           |
| W712658-S439  | 2         | 1         | 4 | Solenoid Mounting Bolt                                                                                                                                       |
| W520103-S442  | 2         | 1         | 4 | Exhaust Bracket Nut (Bronco Sport Only)                                                                                                                      |
| W709601-S442  | 2         | 2         | 1 | Exhaust Bracket Bolt                                                                                                                                         |
| W500545-S901  | 3         | 1         | 4 | Lower Mount Bolt (Bronco Sport Only)                                                                                                                         |
| W712449-S439  | 1         | 1         | 1 | Lower Mount Bolt (Maverick Only)                                                                                                                             |
| XL-5-A        | As Needed | As Needed | 1 | Motorcraft® Multi-Purpose Grease Spray                                                                                                                       |
| XG-3-A        | As Needed | As Needed | 1 | Motorcraft® Silicone Brake Caliper Grease and Dielectric Compound                                                                                            |
| PM-4-A        | As Needed | As Needed | 1 | Motorcraft® Metal Brake Parts Cleaner (Compliant With Low Volatile Organic Compound Requirements As Required In Some USA States) (All Markets Except Canada) |

|            |           |           |   |                                                                                                                                   |
|------------|-----------|-----------|---|-----------------------------------------------------------------------------------------------------------------------------------|
| PM-4-B     | As Needed | As Needed | 1 | Motorcraft® Metal Brake Parts Cleaner (Not Compliant With Low Volatile Organic Compound Requirements) (All Markets Except Canada) |
| CPM-4-A    | As Needed | As Needed | 1 | Motorcraft® Brake Parts Cleaner (Compliant With Low Volatile Organic Compound Requirements As Required For Use In Canada Only)    |
| XL-2       | As Needed | As Needed | 1 | Motorcraft® High Temperature Nickel Anti-Seize Lubricant                                                                          |
| VC-13-G    | As Needed | As Needed | 1 | Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)                                                    |
| CVC-13-G   | As Needed | As Needed | 1 | Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)                                                                  |
| XT-12-QULV | As Needed | As Needed | 1 | Motorcraft® MERCON® ULV Automatic Transmission Fluid                                                                              |
| TA-29      | As Needed | As Needed | 1 | Motorcraft® Ultra Silicone Sealant                                                                                                |

**Parts - AWD Only Parts**

| Service Part Number | Claim Quantity | Package Order Quantity | Number in Package | Description                                                    | Note                                    |
|---------------------|----------------|------------------------|-------------------|----------------------------------------------------------------|-----------------------------------------|
| JM5Z-7H260-A        | 1              | 1                      | 1                 | Axle Seal - All Wheel Drive (AWD) Only                         |                                         |
| NZ6Z- 3B498-A       | 1              | 1                      | 1                 | Half Shaft Cir-Clip                                            |                                         |
| K2GZ-7275-B         | 1              | 1                      | 1                 | PTU Repair Kit                                                 | Contains Right Axle Cir-Clip And O-Ring |
| W719767-S439        | 2              | 1                      | 4                 | Intermediate Shaft Bolt                                        |                                         |
| K2GZ-7086-A         | 1              | 1                      | 1                 | Large Intermediate Shaft Seal                                  |                                         |
| W719766-S439        | 5              | 2                      | 4                 | PTU Bolt                                                       |                                         |
| K2GZ-7H469-D        | 1              | 1                      | 1                 | PTU Actuator Seal Kit                                          |                                         |
| LX6Z-4B496-A        | 3              | 1                      | 1                 | Driveshaft Bolt                                                |                                         |
| XY-75W85-QL         | As Needed      | As Needed              | 1                 | Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant |                                         |

**Parts - Parts To Inspect And Replace Only If Necessary**

| Service Part Number | Claim Quantity              | Package Order Quantity      | Number in Package | Description                                   |
|---------------------|-----------------------------|-----------------------------|-------------------|-----------------------------------------------|
| K2GZ-6758-H         | Only If Necessary (Up To 1) | Only If Necessary (Up To 1) | 1                 | Engine Vapor Tube                             |
| M1PZ-16038-A        | Only If Necessary (Up To 1) | Only If Necessary (Up To 1) | 1                 | Bronco Sport Right Fender Moulding            |
| M1PZ-16039-A        | Only If Necessary (Up To 1) | Only If Necessary (Up To 1) | 1                 | Bronco Sport Left Fender Moulding             |
| W717959-S300        | Only If Necessary (Up To 2) | Only If Necessary (Up To 1) | 4                 | Transmission Mounting Dowel Pin (1.5L Engine) |
| W701350-S900        | Only If Necessary (Up To 2) | Only If Necessary (Up To 2) | 1                 | Transmission Mounting Dowel Pin (2.0L Engine) |
| W712458-S900        | Only If Necessary (Up To 2) | Only If Necessary (Up To 1) | 4                 | Exhaust Stud                                  |

Service part numbers and "number in package" quantity may change after publication, thus also affecting the "package order quantity". Refer to the parts catalog for the latest information.

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

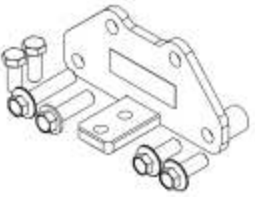
**Package Order Quantity** refers to the amount of the service part number package(s) required to repair the vehicle.

**Number In Package** refers to the number of individual pieces included in a service part number package.

**As Needed** indicates the part is necessary but 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.

**Only If Necessary** indicates the part is not mandatory. Refer to the Service Procedure to determine the inspection/inclusion criteria.

#### Special Tool(s)

|                                                                                                   |                                                                                                      |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  <p>E274940</p>  | <p>Fixture, Bench Mount.<br/>307-769<br/>Holding Fixture, Transmission.<br/>307-003 (T57L-500-B)</p> |
|  <p>E142010</p> | <p>Handle, Torque Converter<br/>307-091</p>                                                          |

**Warranty Status:** Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Service Part Warranty (SPW)/Service Part New Vehicle (SPNV)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/SPW/SPNV/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

#### Labor Times

| Description                                                                                                                                                                           | Operation No. | Time      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| 2023-2024 Maverick FWD 2.0L: Retrieve DTCs Replace The SOWC And Overhaul The Main Control Valve Body (Can Be Claimed With E) (Do Not Use With Any Operations Outside Of This Article) | 252127A       | 14.2 Hrs. |
| 2023-2024 Maverick AWD 2.0L: Retrieve DTCs Replace The SOWC And Overhaul The Main Control Valve Body (Can Be Claimed With E) (Do Not Use With Any Operations Outside Of This Article) | 252127B       | 16.3 Hrs. |

|                                                                                                                                                                                                |         |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| 2023-2024 Bronco Sport 1.5L: Retrieve DTCs Replace The SOWC And Overhaul The Main Control Valve Body(Can Be Claimed With E, F And G) (Do Not Use With Any Operations Outside Of This Article)  | 252127C | 14.2 Hrs. |
| 2023-2024 Bronco Sport 2.0L: Retrieve DTCs Replace The SOWC And Overhaul The Main Control Valve Body (Can Be Claimed With E, F And G) (Do Not Use With Any Operations Outside Of This Article) | 252127D | 18.0 Hrs. |
| 2023-2024 Bronco Sport, Maverick: Additional Time To Check And Correct Toe (Can Be Claimed With A, B, C Or D)                                                                                  | 252127E | 0.8 Hrs.  |
| 2023-2024 Bronco Sport: Additional Time To Align Parking Aid Camera If Equipped (Can Be Claimed With C Or D)                                                                                   | 252127F | 0.5 Hrs.  |
| 2023-2024 Bronco Sport: Additional Time If Equipped With PTU Cooler (Can Be Claimed With C Or D)                                                                                               | 252127G | 0.2 Hrs.  |

### Repair/Claim Coding

|                 |       |
|-----------------|-------|
| Causal Part:    | 7P030 |
| Condition Code: | 69    |

## Service Procedure

1. Remove the transmission. Refer to WSM, Section 307-01.
2. Using the special tool, secure the transmission to the bench mounted fixture.
  - Use Special Service Tools: 307-769 Fixture, Bench Mount. 307-003 (T57L-500-B) Holding Fixture, Transmission.
3. Using the special tools, remove the torque converter.
  - Special Service Tool: 307-091 Handle, Torque Converter
4. Remove the main control valve body. Refer to WSM, Section 307-01.
5. Disassemble the transmission only far enough to access the SOWC. Refer to WSM, Section 307-01 > Overhaul and perform Steps 34-66.
6. Remove and discard the SOWC.
7. Install the new SOWC and reverse the procedure to reassemble the transmission.
8. Overhaul the main control valve body. Refer to WSM, Section 307-01 Main Control Overhaul.
9. Reinstall the main control valve body. Refer to WSM, Section 307-01.
10. Reinstall the transmission. Refer to WSM, Section 307-01.
11. Refill the transmission to the correct fluid level. Refer to WSM, Section 307-01.
12. Clear all DTCs.

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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.