



21-2295

07 October 2021

TECHNICAL SERVICE BULLETIN

Rubbing Noise At Front Of Vehicle While Driving And/Or DTCs C0031 And/Or C0034 - Built On Or Before 14-Jun-2021

Model:

Ford
2021 F-150

Issue: Some 2021 F-150 vehicles built on or before 14-June-2021 may exhibit a rubbing noise at the front of the vehicle while driving and/or diagnostic trouble codes (DTC) C0031 and/or C0034 in the anti-lock brake system (ABS) module. This may be caused by an incorrectly routed front brake flexible hose. To correct the condition, follow the Service Procedure to inspect the front brake flexible hose routing.

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

- 2021 F-150
- Built on or before 14-June-2021
- One or more of the following conditions:
 - Rubbing noise at the front of the vehicle while driving
 - DTC C0031 and/or C0034 in the ABS module

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

Service Part Number	Quantity	Description
ML3Z-2078-B	1	Brake Flexible Hose, Left Side
ML3Z-2078-C	1	Brake Flexible Hose, Right Side
ML3Z-2C204-C	1 Per Affected Side	Wheel Speed Sensor
PM-20	As Needed	Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid

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	Time
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	No.	
2021 F-150: Retrieve DTCs And Replace One (1) Front Brake Flexible Hose Inspect Wheel Speed Sensor (Pass) (Do Not Use With Any Other Labor Operations)	212295A	0.8 Hrs.
2021 F-150: Retrieve DTCs And Replace Both (2) Front Brake Flexible Hoses Inspect Wheel Speed Sensor (Pass) (Do Not Use With Any Other Labor Operations)	212295B	1.0 Hrs.
2021 F-150: Retrieve DTCs And Replace One (1) Front Brake Flexible Hose Inspect Wheel Speed Sensor (Fail) Replace One (1) Wheel Speed Sensor (Do Not Use With Any Other Labor Operations)	212295C	1.0 Hrs.
2021 F-150: Retrieve DTCs And Replace Both (2) Front Brake Flexible Hoses Inspect Wheel Speed Sensor (Fail) Replace One (1) Wheel Speed Sensor (Do Not Use With Any Other Labor Operations)	212295D	1.3 Hrs.
2021 F-150: Retrieve DTCs And Replace Both (2) Front Brake Flexible Hoses Inspect Wheel Speed Sensor (Fail) Replace Both (2) Wheel Speed Sensors (Do Not Use With Any Other Labor Operations)	212295E	1.6 Hrs.

Repair/Claim Coding

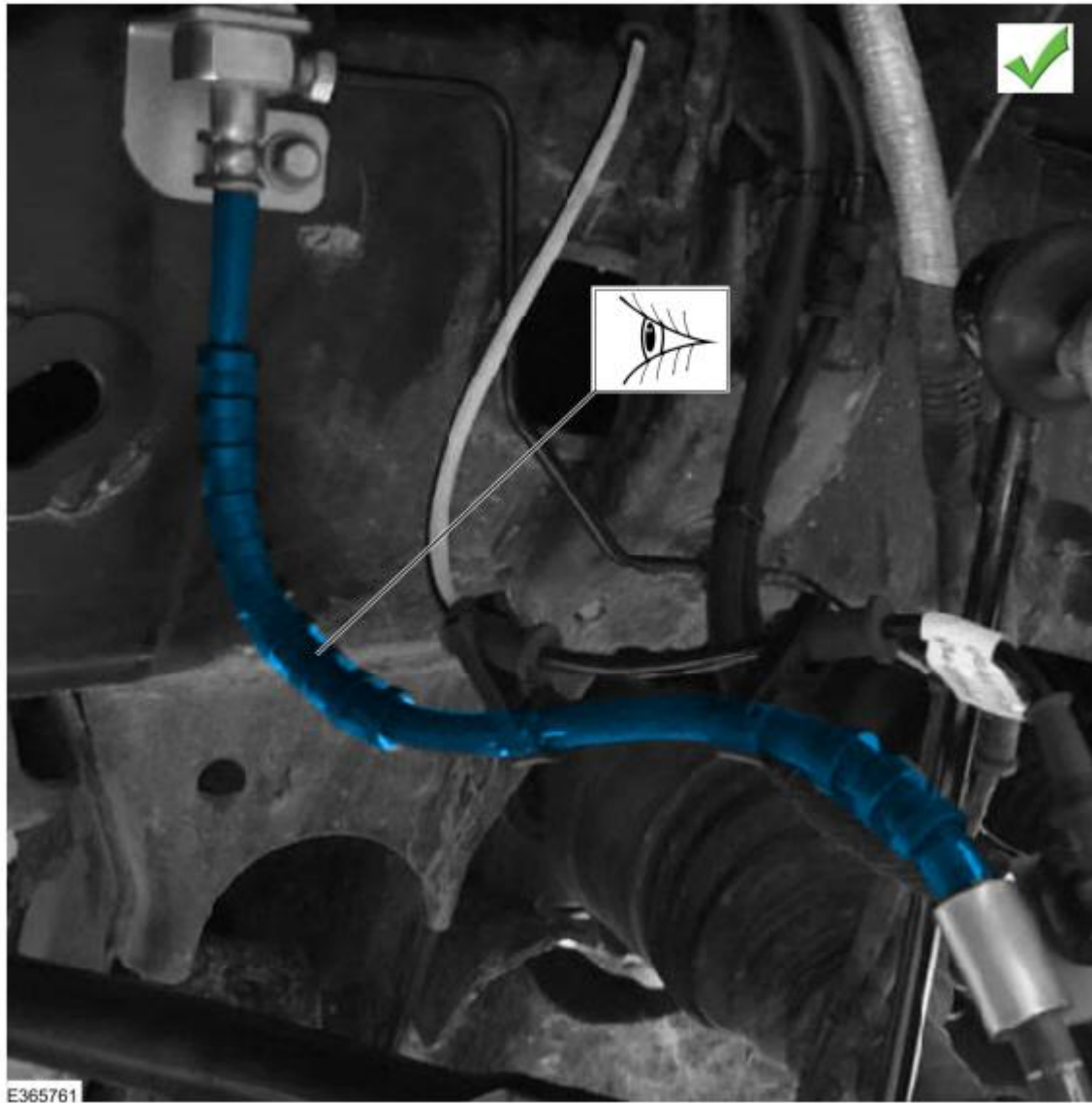
Causal Part:	2078
Condition Code:	12

Service Procedure

1. With the vehicle on the ground or a drive-on hoist and the steering wheel centered, inspect the routing of both front brake flexible hoses. (Figures 1-2)

NOTE: The flexible hoses must travel downward on the frame side before bending and bend near where they enter the bracket secured to the steering knuckle. There should be greater than 3/4 inch (19 mm) clearance between the brake flexible hose and the wheel/tire assembly.

Figure 1 - Correct routing



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Figure 2 - Incorrect routing



2. Are both front brake flexible hoses routed correctly? (Figure 1)

- (1). Yes - this article does not apply.
- (2). No - proceed to step 3.

3. Replace the affected front brake flexible hose(s). Refer to Workshop Manual (WSM), Section 206-03. When installing the new hose(s), they must travel downward on the frame side before bending toward the steering knuckle and then bend near the bracket secured to the steering knuckle. (Figure 1)

4. Inspect the affected wheel speed sensor harness(es). Is the wheel speed sensor harness damaged?

- (1). Yes - replace the affected wheel speed sensor.

(2). No - repair is complete.

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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.