



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

22-2118

03 May 2022

This bulletin supersedes 21-2295.

Model:

Ford 2021 F-150	Built on or before 14-June-2021
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Summary

This article supersedes TSB 21-2295 to update the Parts List.

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

Parts

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
W711784-S300	2 Per Affected Hose	Brake Hose Washer	1	2 Per Affected Hose
PM-20	As Needed	Motorcraft® DOT 4 LV High Performance Motor Vehicle Brake Fluid		

Parts

Parts To Inspect And Replace As Needed (1 Or Both Will Be Needed)

Service Part Number	Quantity	Description
ML3Z-2078-K	1	Front Brake Flexible Hose (Right Side)
ML3Z-2078-L	1	Front Brake Flexible Hose (Left Side)

Parts

Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity	Note
ML3Z-2C204-C	If Needed	Front Wheel Speed Sensor	1	2	
W720613-S439	If Needed	Brake Caliper Anchor Plate Bolt	4	2	Must replace when the front wheel speed sensor is replaced

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.

If Needed indicates the part is not mandatory.

Labor Times

Description	Operation No.	Time
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)	222118A	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)	222118B	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)	222118C	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)	222118D	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)	222118E	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

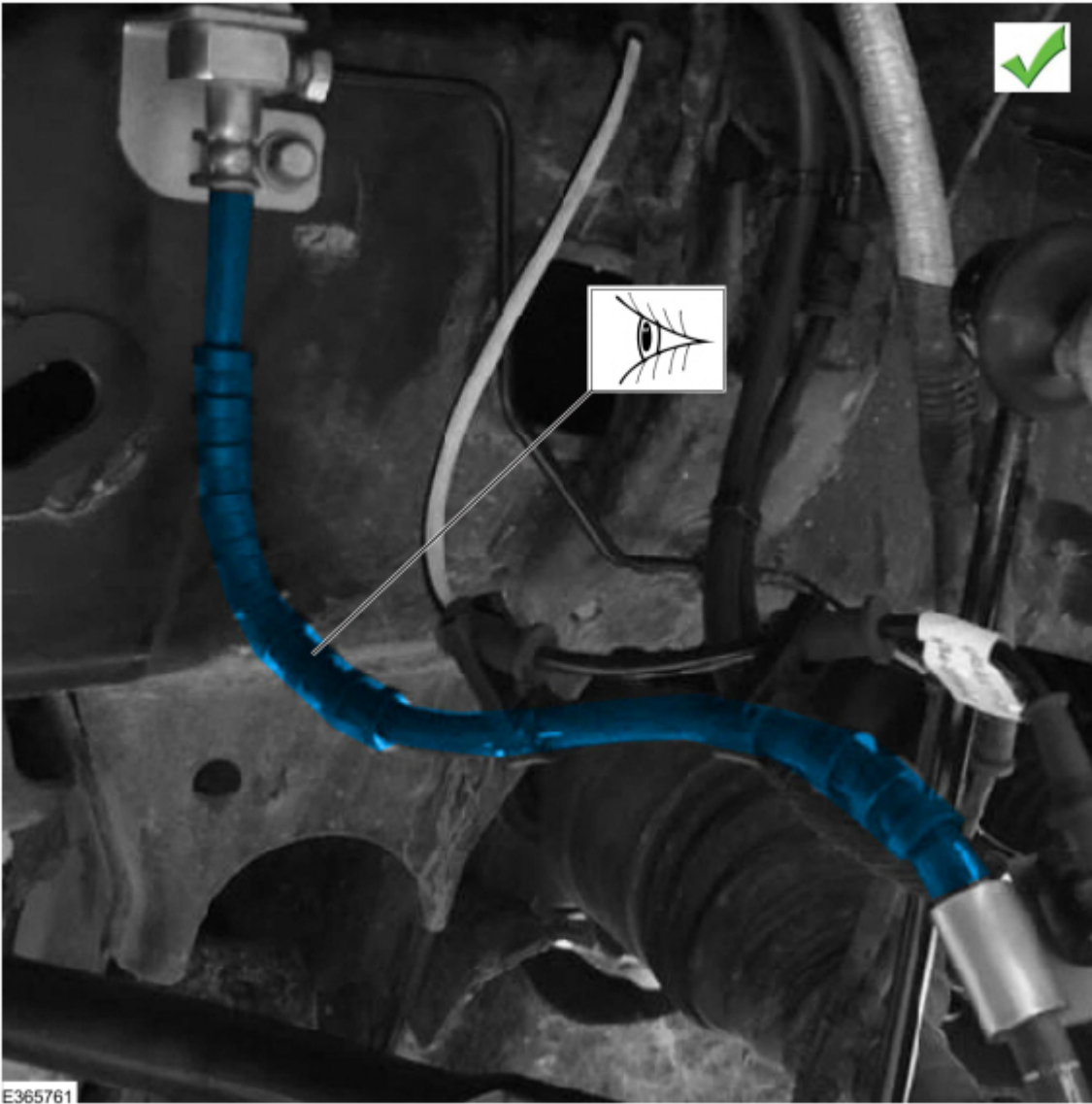
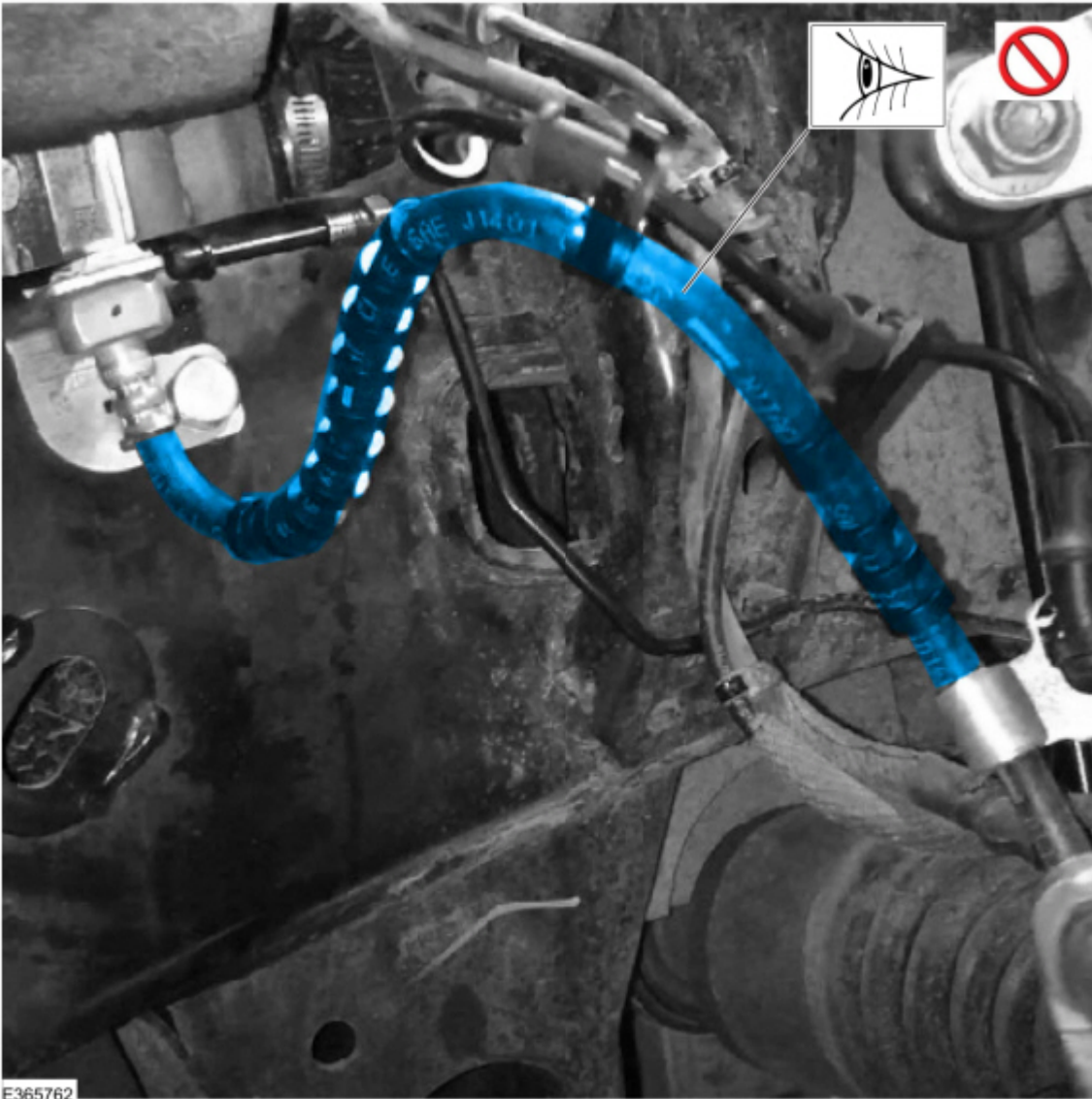


Figure 2 - Incorrect routing



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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