



TECHNICAL SERVICE BULLETIN

Chatter/Shudder During Low Speed Turning Events

24-2386

18 November
2024

This bulletin supersedes 24-2185. Reason for update: revised Service Procedure to add Steps 6-10

Model:

Ford 2021-2023 Bronco Sport	Vehicle built on or before 30-Nov-2022 equipped with 1.5L EcoBoost engine
2021-2022 Bronco Sport	Vehicle built on or before 28-Feb-2022 equipped with 2.0L EcoBoost engine
2020-2022 Escape	Vehicle built on or before 30-Apr-2022 equipped with 1.5L/2.0L EcoBoost engine Vehicle built on or before 31-Mar-2022 equipped with 2.5L FHEV powertrain
Lincoln 2020-2022 Corsair	Vehicle built on or before 30-Apr-2022 equipped with 2.0L/2.3L EcoBoost engine

Markets: North American markets only

Issue: Some 2021-2023 Bronco Sport vehicles equipped with a 1.5L engine built on or before 30-Nov-2022, 2021-2022 Bronco Sport vehicles equipped with a 2.0L engine built on or before 28-Feb-2022, 2020-2022 Escape/Corsair vehicles equipped with 1.5L/2.0L/2.3L engines built on or before 30-Apr-2022, 2020-2022 Escape vehicles equipped with 2.5L FHEV powertrain built on or before 31-Mar-2022 may exhibit a chatter/shudder during low speed turning events. This may be due to contamination of the RDU fluid through the RDU vent hose. To correct the condition, follow the Service Procedure to replace the RDU vent hose.

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

- One of the following vehicles:
 - 2021-2023 Bronco Sport vehicles built on or before 30-Nov-2022 equipped with a 1.5L engine
 - 2021-2022 Bronco Sport vehicles built on or before 28-Feb-2022 equipped with a 2.0L engine
 - 2020-2022 Escape/Corsair vehicles built on or before 30-Apr-2022 equipped with 1.5L/2.0/2.3L engines
 - 2020-2022 Escape vehicles built on or before 31-Mar-2022 equipped with 2.5L FHEV powertrain
- Exhibits a chatter/shudder during low speed turning events

Parts

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
K2GZ-4022-M	1	1	1	RDU Vent Hose (Bronco Sport 1.5L, Escape 1.5L/2.0L)
LX6Z-4022-C	1	1	1	RDU Vent Hose (Bronco Sport 2.0L)
K2GZ-4022-L	1	1	1	RDU Vent Hose (Corsair)
LX6Z-4022-H	1	1	1	RDU Vent Hose (Escape 2.5L FHEV)
W718014-S450	1	1	4	Stud Rivet
6C2Z-4N282-AA	2	2	1	Drain Plug
TA-2-B	As Needed	As Needed		Motorcraft® Seam Sealer
XY-75W-QL	As Needed	As Needed		Motorcraft® Disconnect Rear Drive Unit Fluid

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.

Special Tool(s)

Hand Stud Rivet Setter Kit
Metric Item #AST1455

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
2020-2022 Escape AWD 1.5L/2.0L/2.5L: Replace The RDU Vent Hose Following The Service Procedure (Do Not Use With Any Other Labor Operations)	242386A	0.9 Hrs.
2020-2022 Corsair: 2.0L/2.3L: Replace The RDU Vent Hose Following The Service Procedure (Do Not Use With Any Other Labor Operations)	242386B	0.9 Hrs.
2021-2023 Bronco Sport 1.5L: Replace The RDU Vent Hose Following The Service Procedure (Do Not Use With Any Other Labor Operations)	242386C	0.9 Hrs.
2021-2022 Bronco Sport 2.0L: Replace The RDU Vent Hose Following The Service Procedure (Do Not Use With Any Other Labor Operations)	242386D	0.8 Hrs.

Repair/Claim Coding

Causal Part:	4022
Condition Code:	07

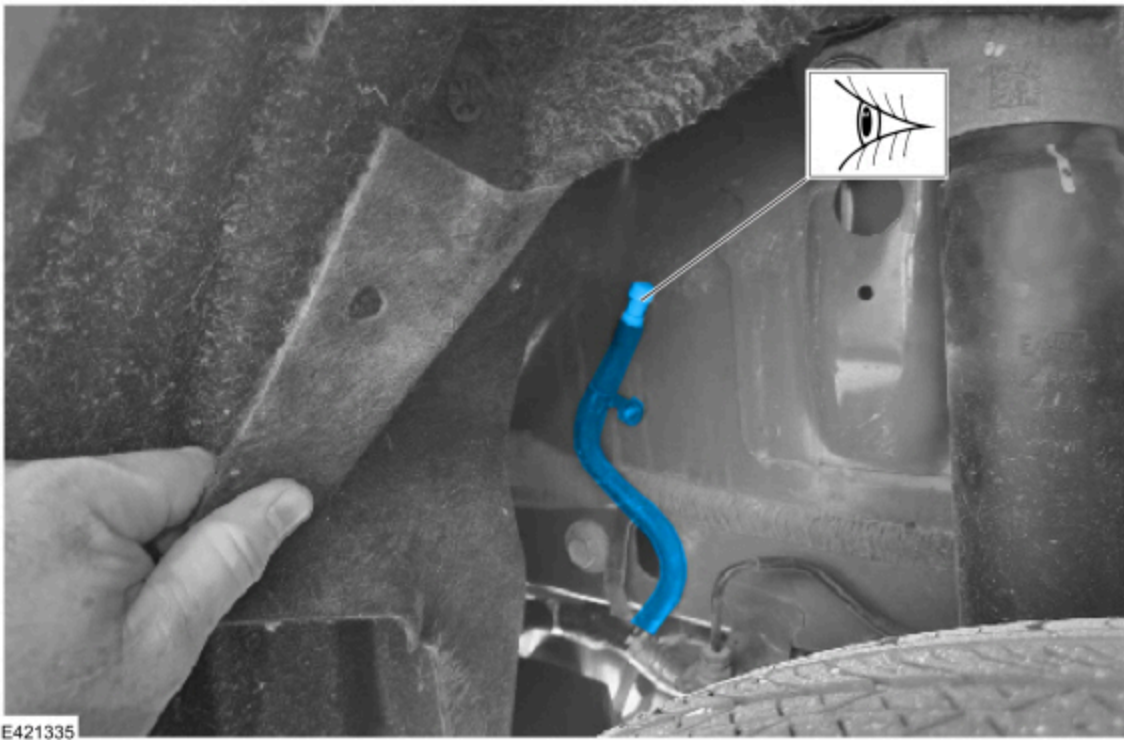
Service Procedure

1. Remove the right rear fender splash shield retaining pin and fold back the right rear fender splash shield to inspect the RDU vent hose. (Figures 1-2)

Figure 1

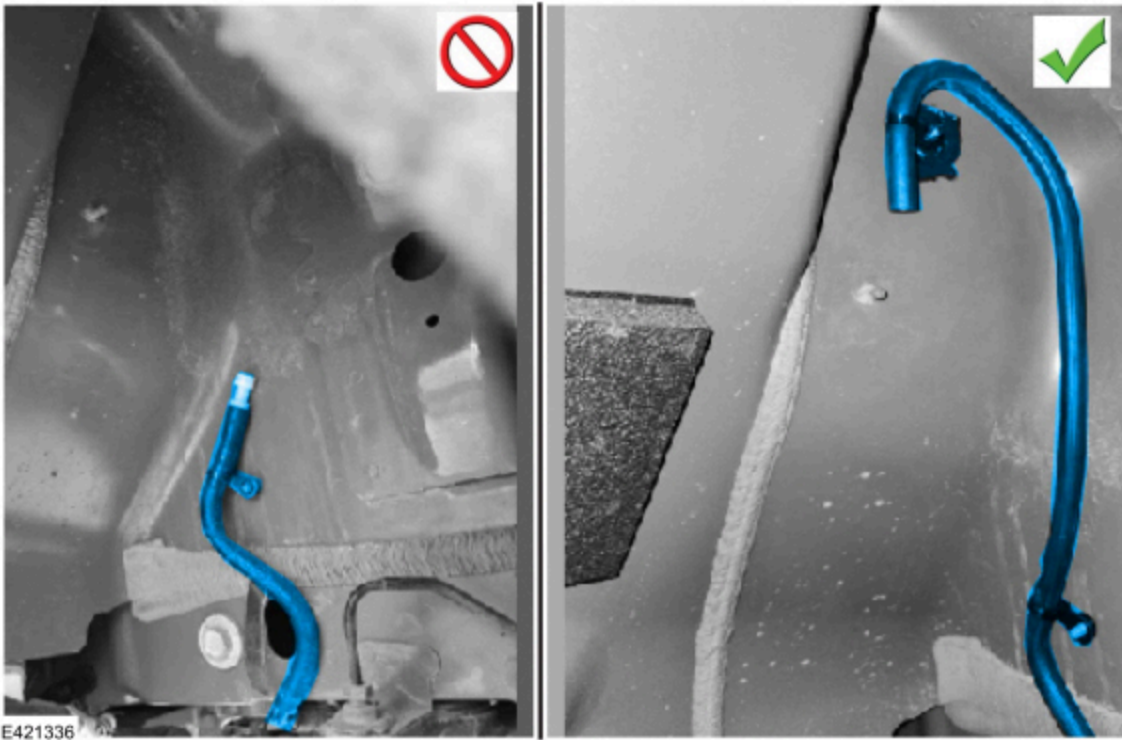


Figure 2



2. Inspect the RDU vent hose mounted behind the right rear fender splash shield. Is the vehicle equipped with the updated RDU vent hose as shown in the image with the green check mark in Figure 3?

Figure 3



(1). Yes - this article does not apply. Continue with normal diagnosis.

(2). No - proceed to Step 3.

3. Remove the right rear wheel. Refer to WSM, Section 204-04A.

4. Remove the retainers and screws from the right rear fender splash shield shown in Figures 4-6. Lower and fold the right rear fender splash shield in front of the brake caliper to access the RDU vent hose and upper section of the wheel well.

Figure 4



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Figure 5

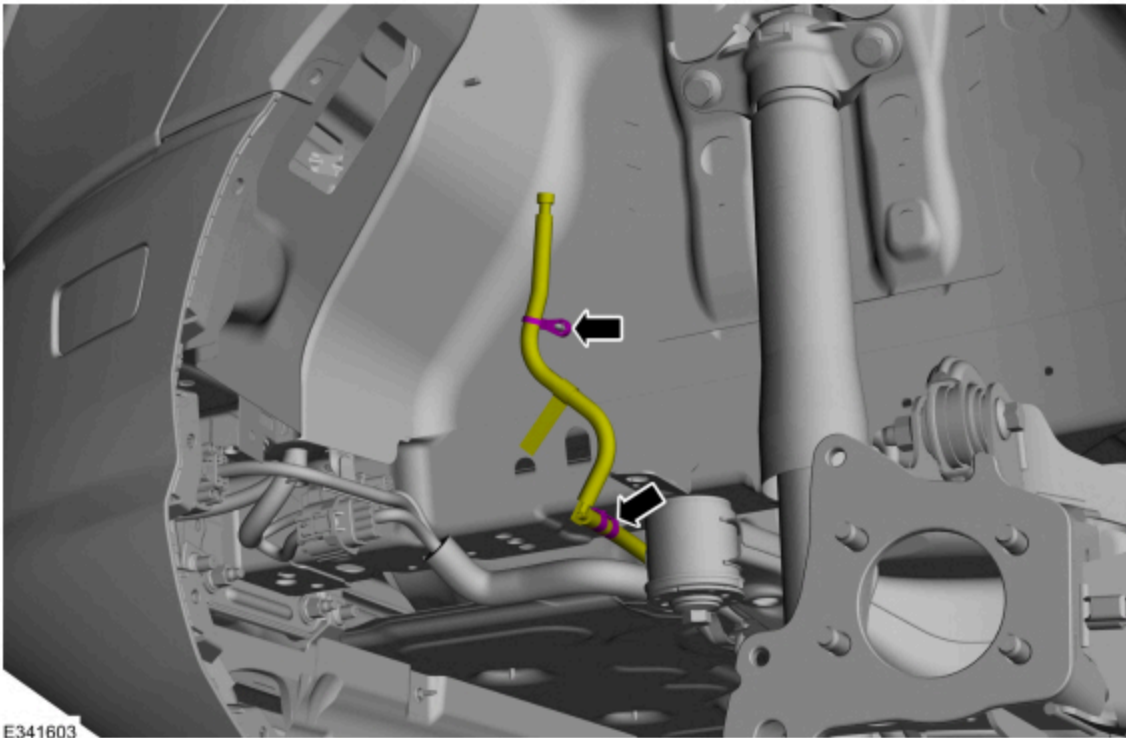


Figure 6

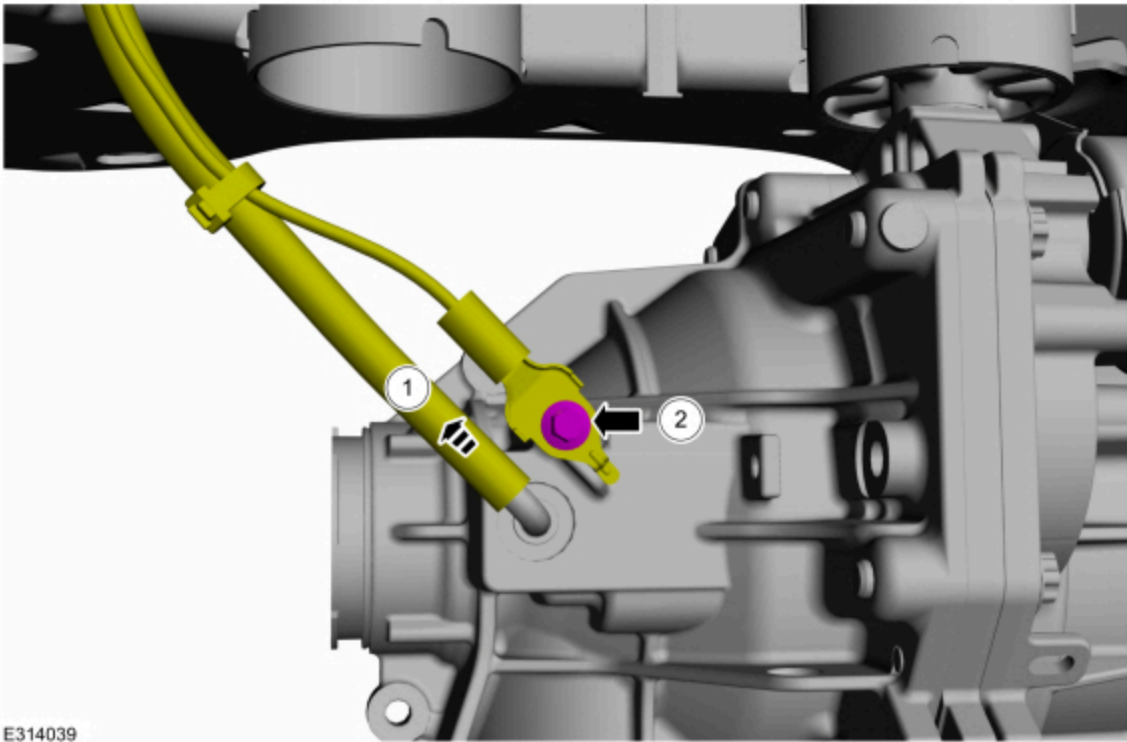


5. Disconnect the RDU vent hose retainers. (Figure 7)

Figure 7



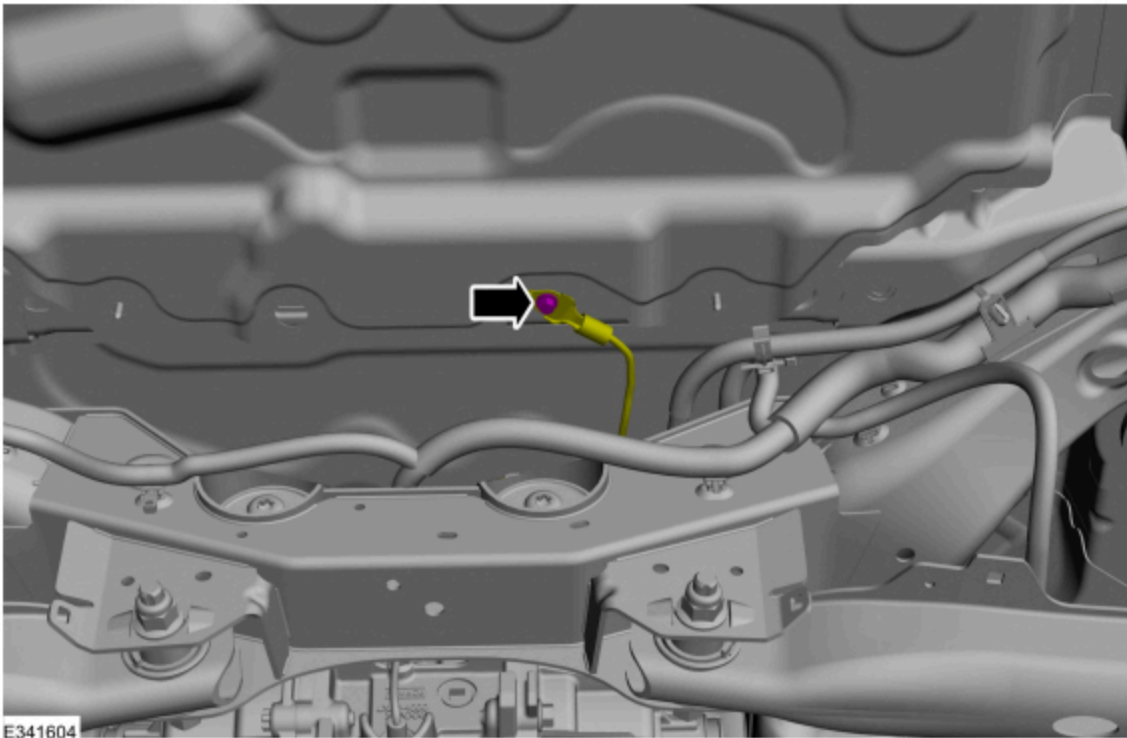
- 6.** Is the vehicle a 2021-2023 Bronco Sport equipped with a 2.0L engine?
- (1). Yes - proceed to Step 7.
 - (2). No - proceed to Step 11.
- 7.** Locate the 2 wire ties that secure the RDU vent hose and ground cable together.
- 8.** Cut the 2 wires ties, disconnect the RDU vent hose from the RDU vent port, detattach hose retainers and remove the RDU vent hose, leaving the original ground cable in place and secured.
- 9.** On the new replacement RDU vent hose assembly, cut the 2 wire ties and discard the ground strap.
- 10.** Install the new RDU vent hose onto the RDU and attach the hose retainers. Proceed to Step 18.
- 11.** Remove the rear differential vent hose and ground strap bolt from the RDU and position aside. (Figure 8)
Figure 8 - Bronco Sport 1.5L / Escape/Corsair shown)



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12. Remove the ground strap bolt from the body. (Figure 9)

Figure 9



E341604

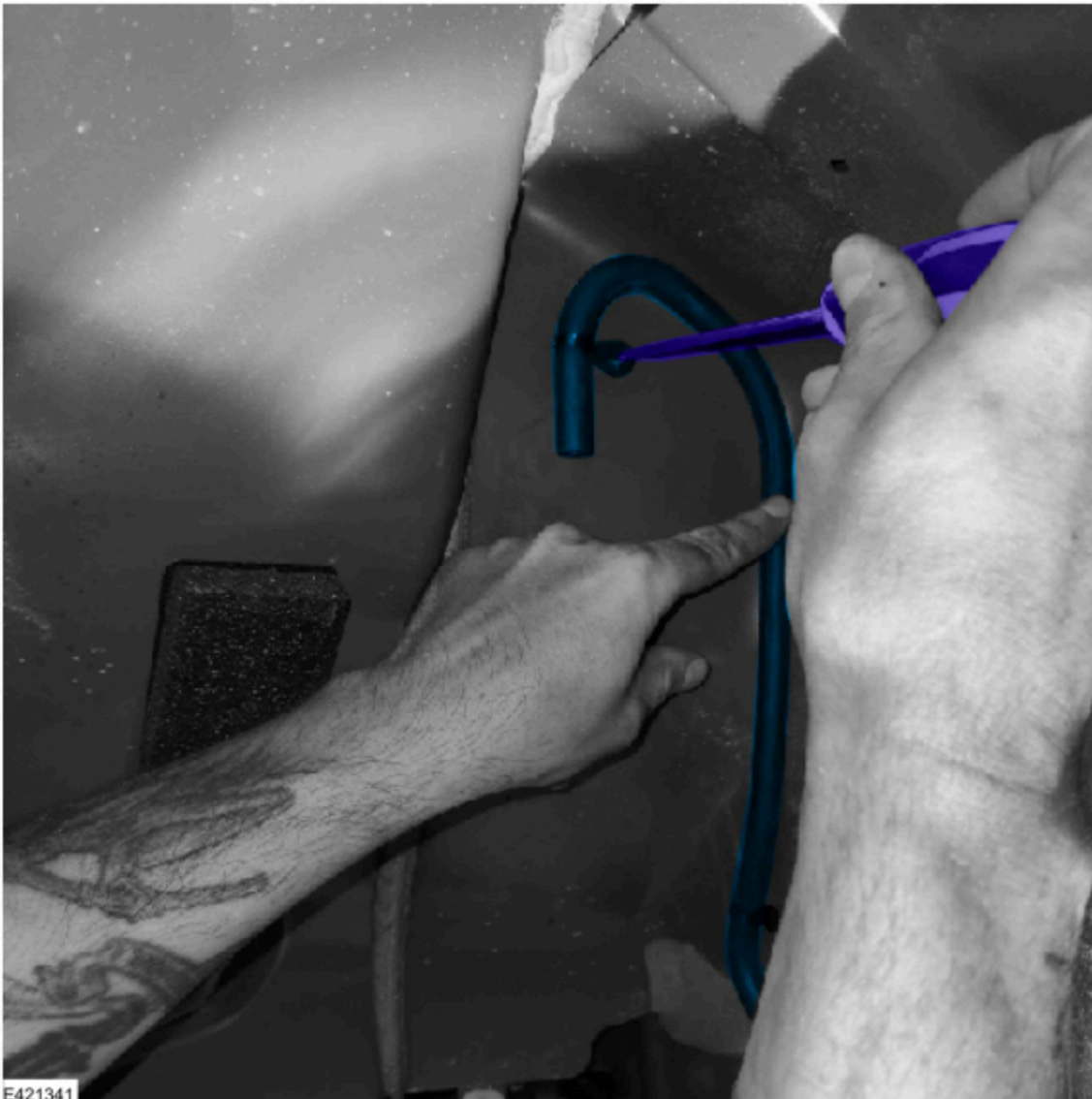
13. Detach the hose retainer and remove the RDU vent hose and ground cable assembly. (Figure 10)

Figure 10



14. Position the new RDU vent hose and ground strap assembly and attach the hose retainers. (Figures 7 and 10)
15. Install the bolt to attach the ground strap to the body. Tighten to 12 Nm (106 lb.in). (Figure 9)
16. Install the new RDU vent hose onto the RDU. (Figure 8)
17. Install the bolt to secure ground cable onto RDU. Tighten to 12 Nm (106 lb.in). (Figure 8)
18. Using the new retainer at the end of the new RDU vent hose, position the hose vertically so the form of the hose follows the inner arch of the wheel well. Use a tool or a marker to mark the location on the body to drill a hole. (Figure 11)

Figure 11



19. Position the RDU vent hose aside.



CAUTION: A depth stopper on the drill bit is necessary to prevent damage to the interior trim.

20. Using a 10 mm (25/64 in.) drill bit with a depth stopper that leaves only 7 mm (1/4 in.) of the end of the drill bit exposed, drill a hole at the location marked in Step 18.

21. Deburr and clean the hole drilled in Step 20. Temporarily dry fit the stud rivet in the body to make sure the stud rivet is properly seated, then remove the stud rivet.

22. Apply a generous amount of sealant to the body side of the stud rivet. (Figure 12)

Figure 12



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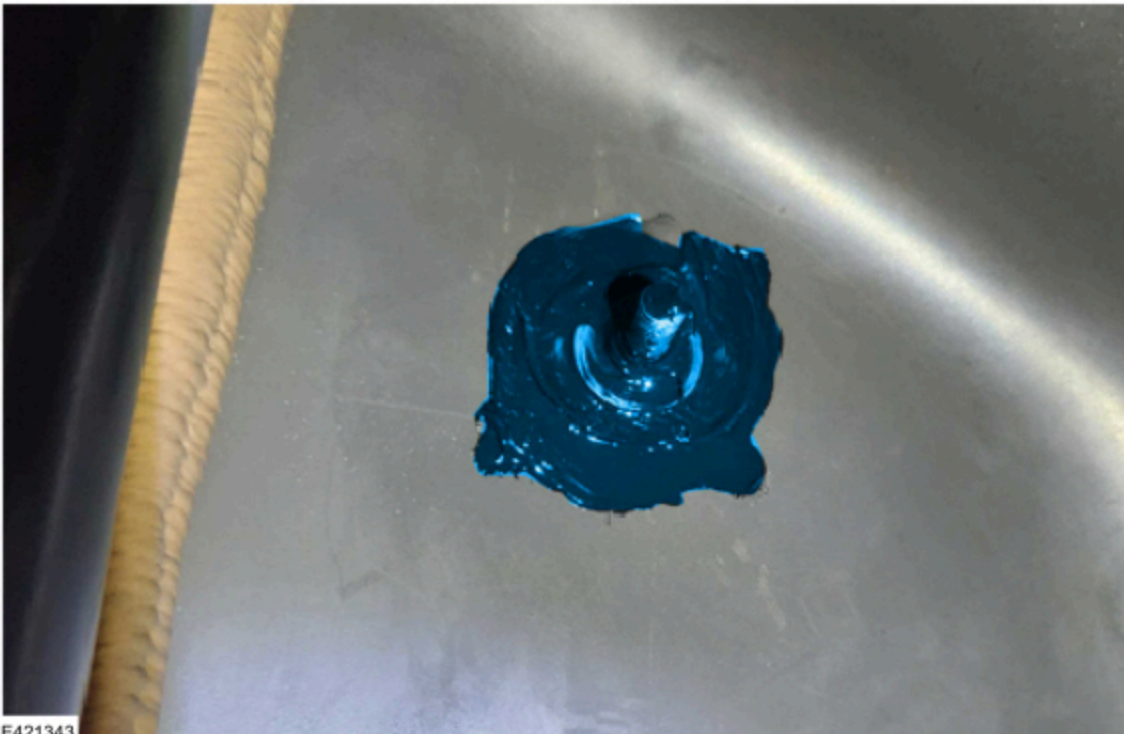
⚠ CAUTION: Failure to properly seal the stud rivet could lead to water entry into the passenger area.

23. Insert the stud rivet and secure using the stud rivet tool.

24. Spread the excess sealant around the rivet collar as well as the base of the stud to confirm adequate sealing. (Figure 13)

NOTE: It is not necessary to wait for the sealant to dry before reassembly.

Figure 13



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25. Attach the hose retainer to the new stud.

26. Reassemble the right rear fender splash shield and secure using the retainers and locations shown in Figures 4-6.

27. Install the right rear wheel. Refer to WSM, Section 204-04A.

28. Drain and fill the RDU. Refer to WSM, Section 205-02A.

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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.