



TECHNICAL SERVICE BULLETIN

1.5/2.0/2.3/2.5L - Chatter/Shudder During Low Speed Turning Events

24-2185

06 June 2024

This bulletin supersedes 23-2335. Reason for update: add 2.5L FHEV and update the part list

Model:

Ford 2021-2023 Bronco Sport	Engine: 1.5L EcoBoost - Vehicles built on or before 30-Nov-2022 Engine: 2.0L EcoBoost - Vehicles built on or before 28-Feb-2022
2020-2022 Escape	Engine: 1.5L EcoBoost Engine: 2.0L EcoBoost Engine: 2.5L FHEV Built on or before 30-Apr-2022
Lincoln 2020-2022 Corsair	Engine: 2.0L EcoBoost Engine: 2.3L EcoBoost Built on or before 30-Apr-2022

Markets: North American markets only

Issue: Some 2021-2023 Bronco Sport vehicles equipped with a 1.5L engine and built on or before 30-Nov-2022, 2021-2022 Bronco Sport vehicles equipped with a 2.0L engine and built on or before 28-Feb-2022, 2020-2022 Escape/Corsair vehicles equipped with 1.5L/2.0L/2.3L engines and built on or before 30-Apr-2022, 2020-2022 Escape vehicles equipped with 2.5L FHEV powertrain and 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 built on or before 30-Nov-2022 equipped with a 1.5L engine
 - 2021-2022 Bronco Sport built on or before 28-Feb-2022 equipped with a 2.0L engine
 - 2020-2022 Escape/Corsair built on or before 30-Apr-2022 equipped with 1.5L/2.0/2.3L engines
 - 2020-2022 Escape 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
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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)	242185A	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)	242185B	0.9 Hrs.
2021-2022 Bronco Sport 2.0L, 2021-2023 Bronco Sport 1.5L: Replace The RDU Vent Hose Following The Service Procedure (Do Not Use With Any Other Labor Operations)	242185C	0.9 Hrs.

Repair/Claim Coding

Causal Part:	4022
Condition Code:	07

Service Procedure

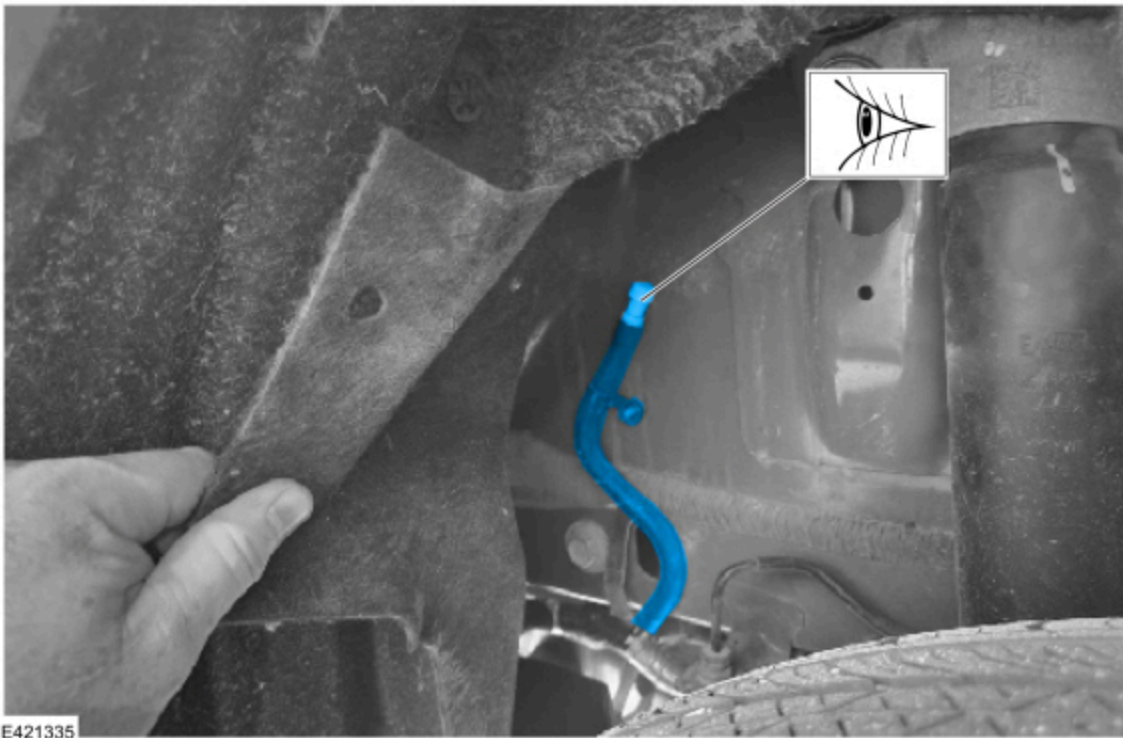
1. Remove the right rear fender splash shield retaining pin and fold back the right rear fender splash shield to inspect the RDU vent hose. (Figures 1-2)

Figure 1



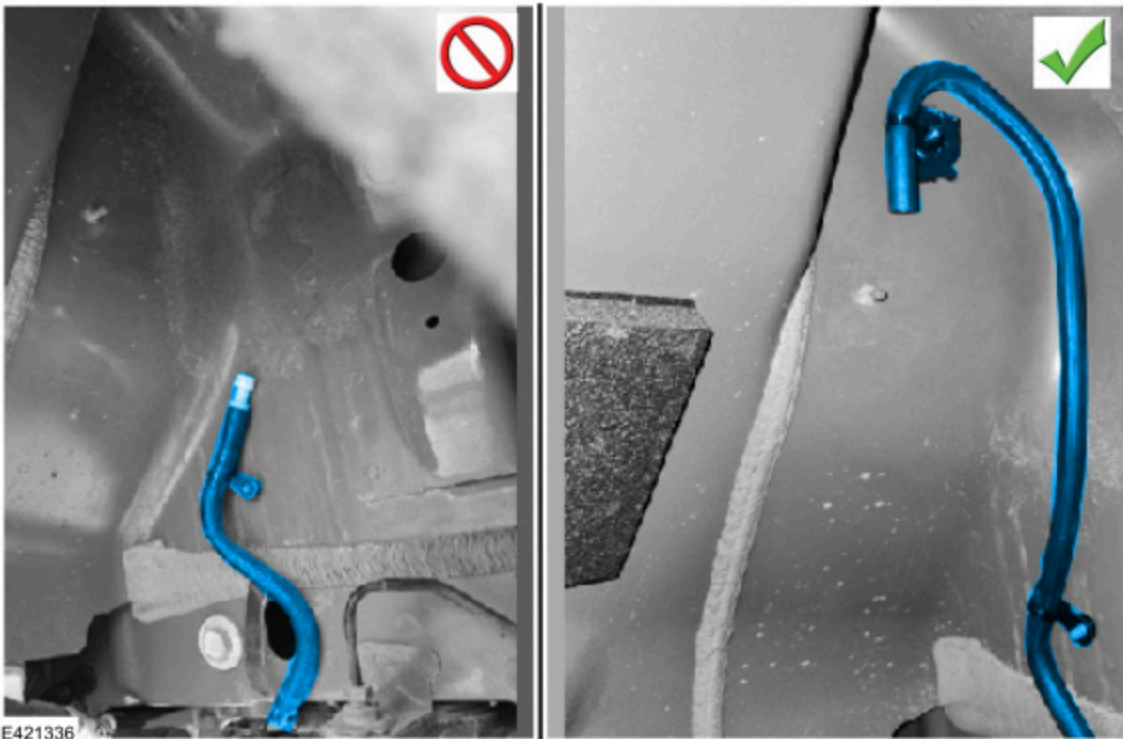
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Figure 2



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

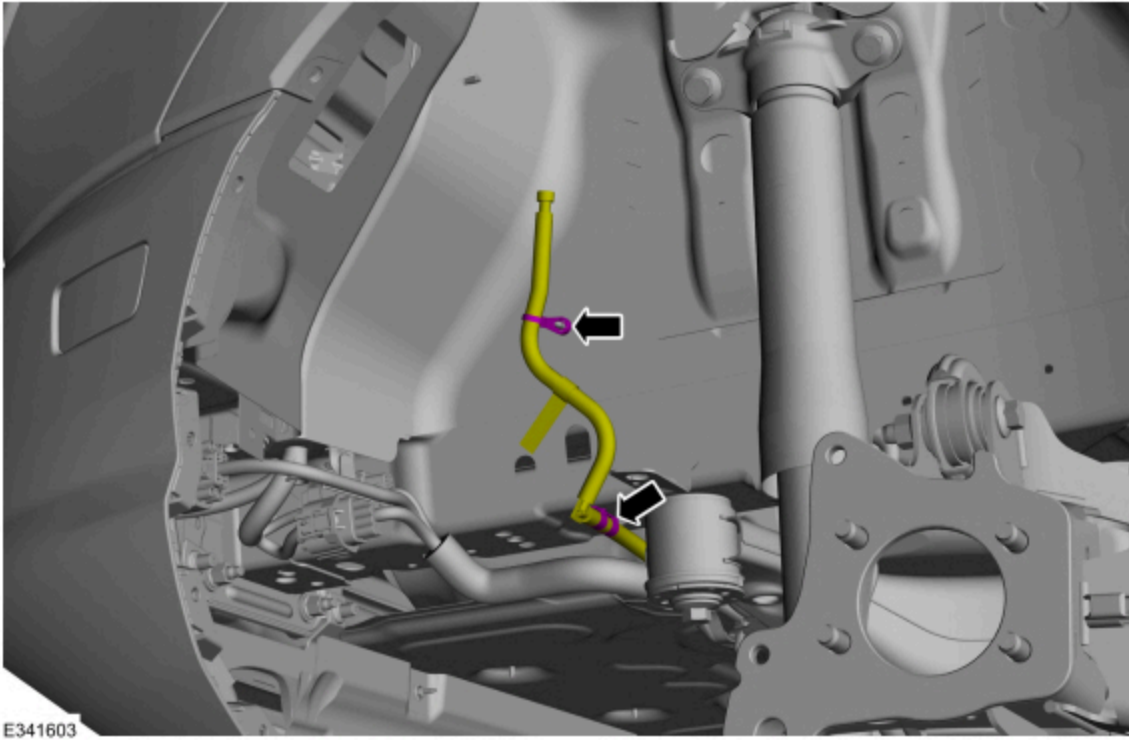


Figure 6

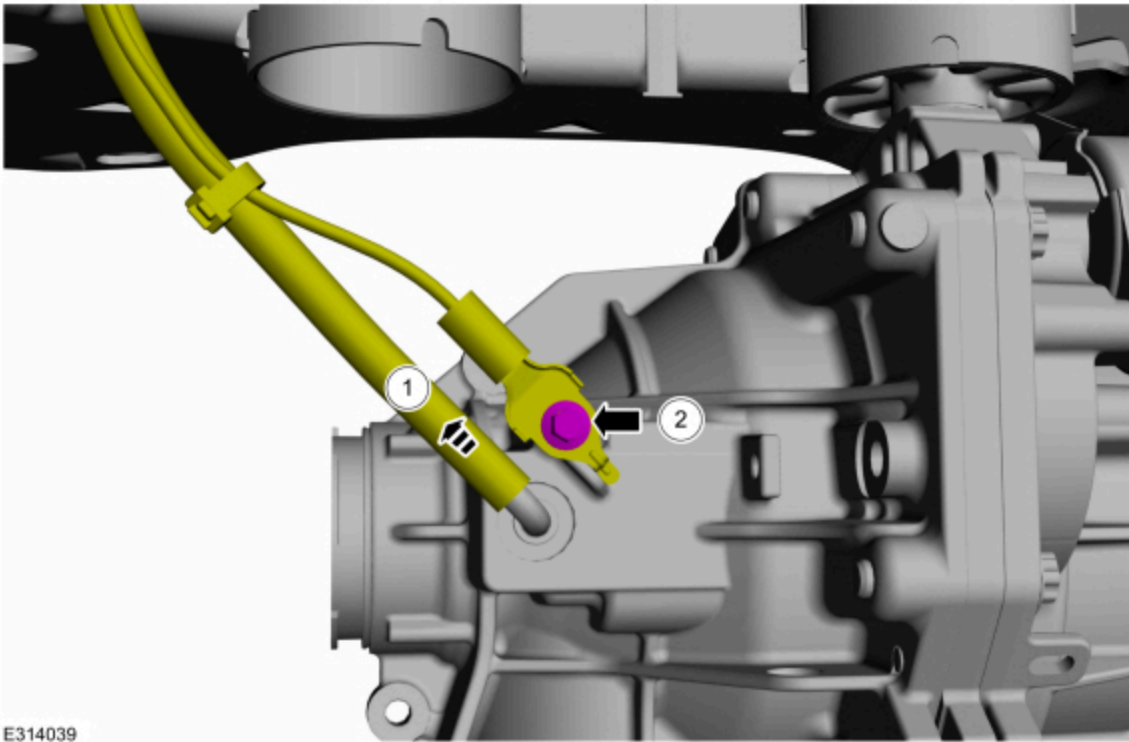


5. Disconnect the RDU vent hose retainers. (Figure 7)

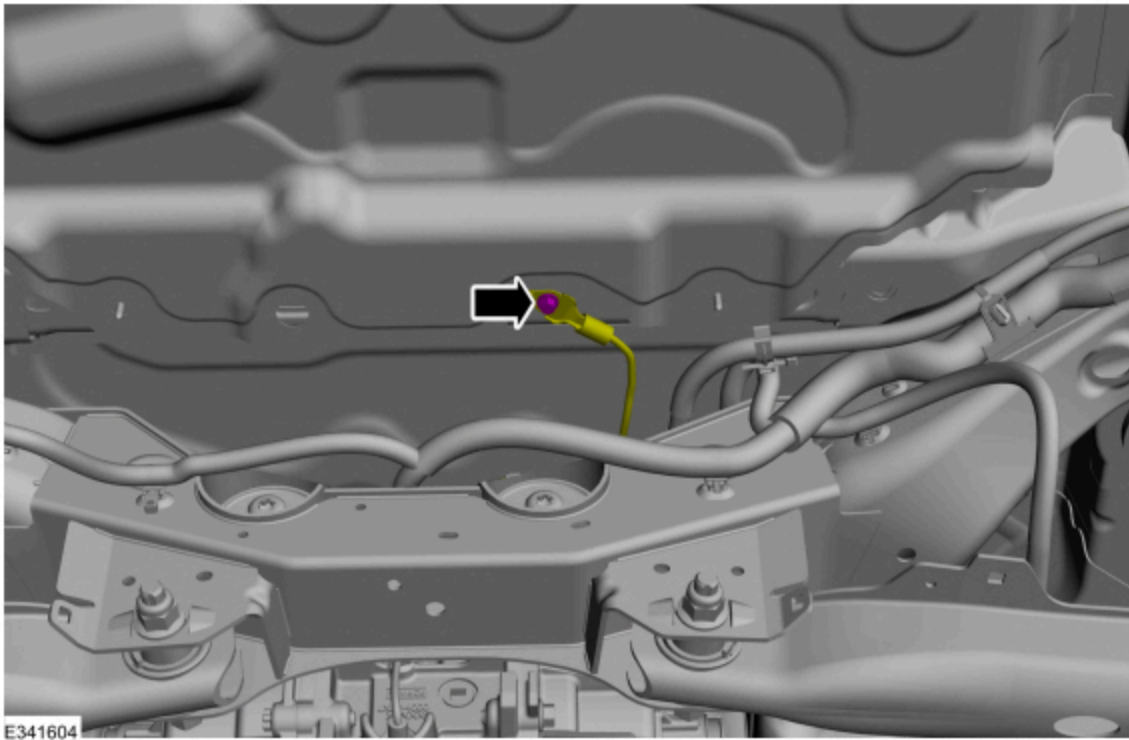
Figure 7



6. Remove the rear differential vent hose and ground strap bolt from the RDV and position aside. (Figure 8)
Figure 8 - Bronco Sport 1.5L/Escape/Corsair shown, Bronco Sport 2.0L



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

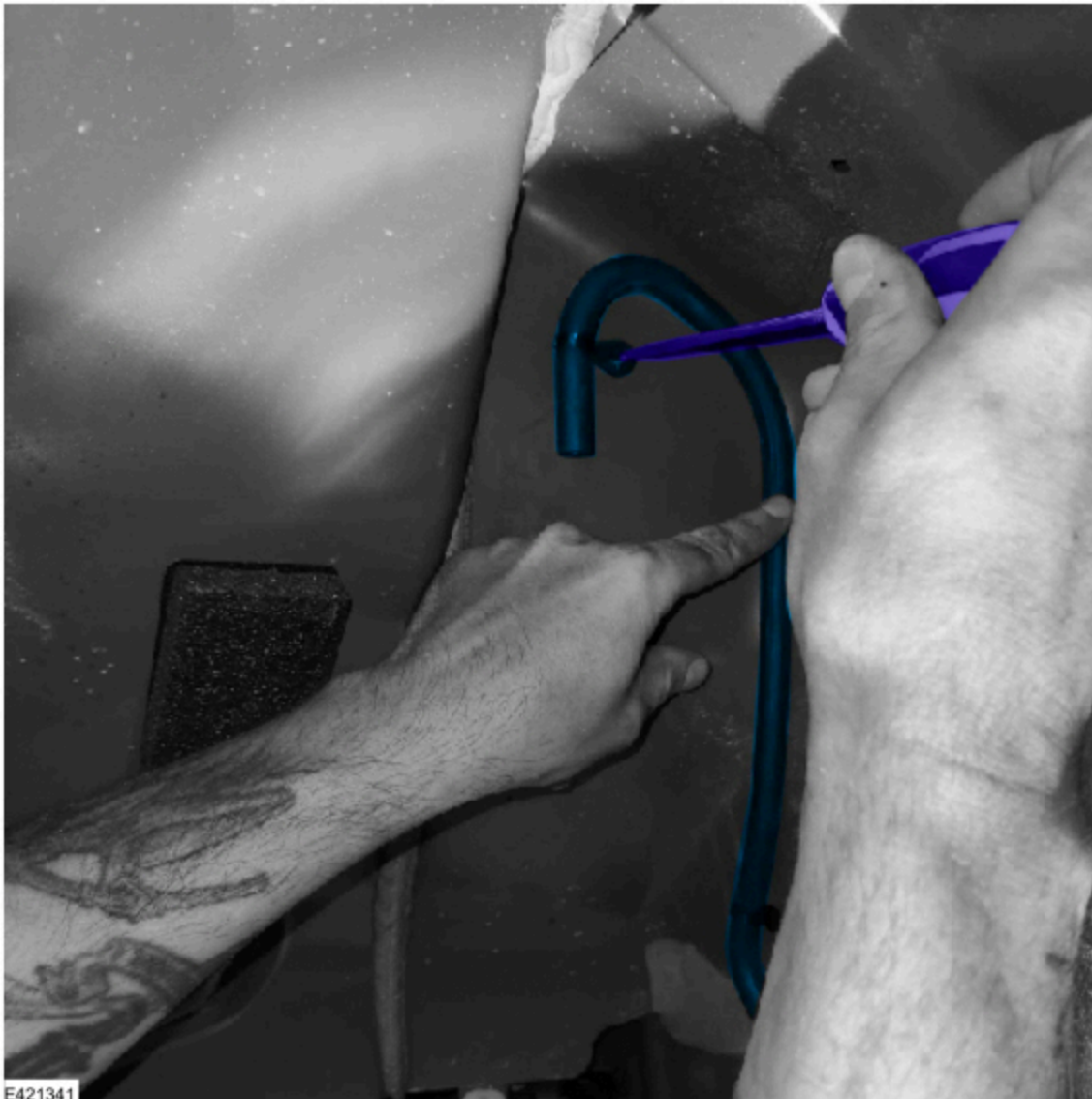


8. Detach the hose retainer and remove the RDU vent hose and ground cable assembly. (Figure 10)
Figure 10



9. Position the new RDU vent hose and ground strap assembly and attach the hose retainers. (Figures 7 and 10)
10. Install the bolt to attach the ground strap to the body. Tighten to 12 Nm (106 lb.in). (Figure 9)
11. Install the new RDU vent hose onto the RDU. (Figure 8)
12. Install the bolt to secure ground cable onto RDU. Tighten to 12 Nm (106 lb.in). (Figure 8)
13. 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



14. Position the RDU vent hose aside.



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

15. 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 13.

16. Deburr and clean the hole drilled in Step 15. Temporarily dry fit the stud rivet in the body to make sure the stud rivet is properly seated, then remove the stud rivet.

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

Figure 12



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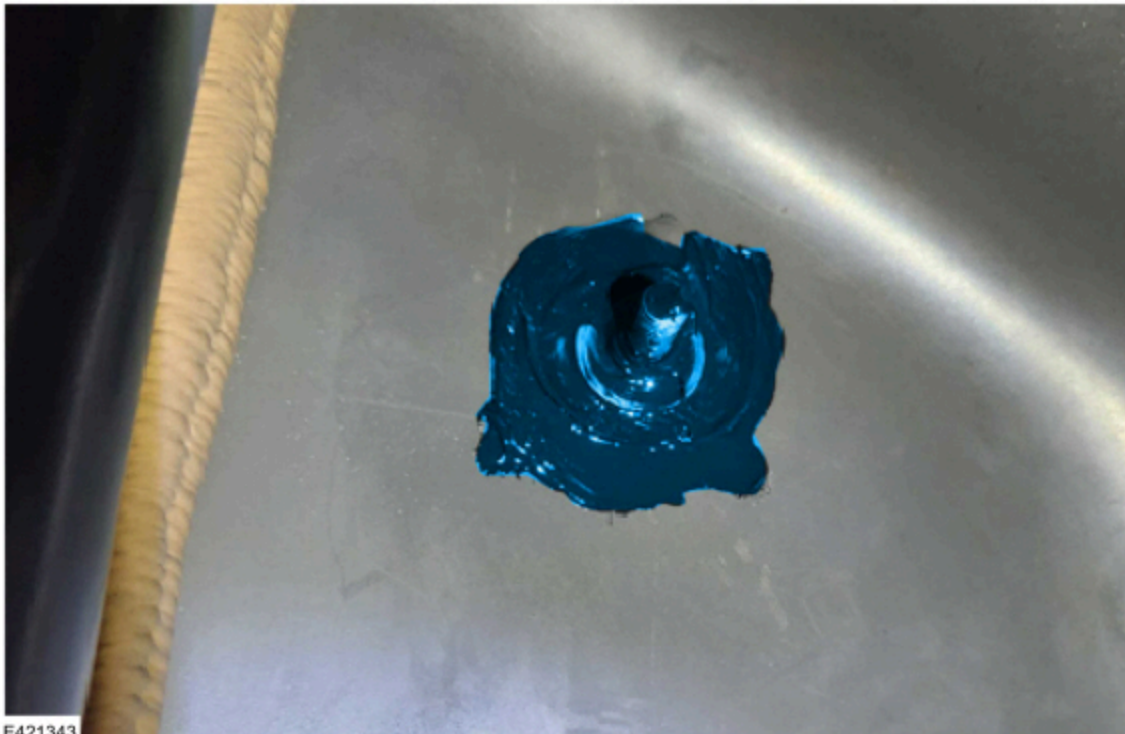
CAUTION: Failure to properly seal the stud rivet could lead to water entry into the passenger area.

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

19. 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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20. Attach the hose retainer to the new stud.

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

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

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

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