



# GENERAL SERVICE BULLETIN

## Next-Generation Ranger - Load Box Reinforcement For Canopy Fitment

**22-7115**

28 August  
2022

### Model:

**Ford**  
2022 Next-Generation Ranger

### Summary



**CAUTION: To support structural integrity of the load box on Next-Generation Ranger vehicles when a canopy is fitted, vehicles require the installation of genuine Ford load box reinforcement brackets.**

This bulletin should be read in conjunction with the instructions supplied with the load box reinforcement brackets, The Ford Ranger P703 Body and Equipment Mounting Manual (BEMM) and the 2022 Ranger RA Workshop Manual (WSM).

### Tools Required

1. Sharp  $\varnothing$  4.0 mm heavy-duty high-cobalt drill
2. Sharp  $\varnothing$  6.5 mm heavy-duty high-cobalt drill
3. Pneumatic body saw
4. Mini belt grinder
5. A pneumatic rivet tool (Huck rivet tool preferred)

### Parts Required

Kit - Brace Body Side Panel Rear 2627726 - Qty 1

Bolt and Washer M12X47 HF MAT FL – 9XG153812M /W715381-S442 - Qty 2

### Service Instruction

Figure 1 and 2 below, illustrate load box reinforcement brackets in the vehicle.

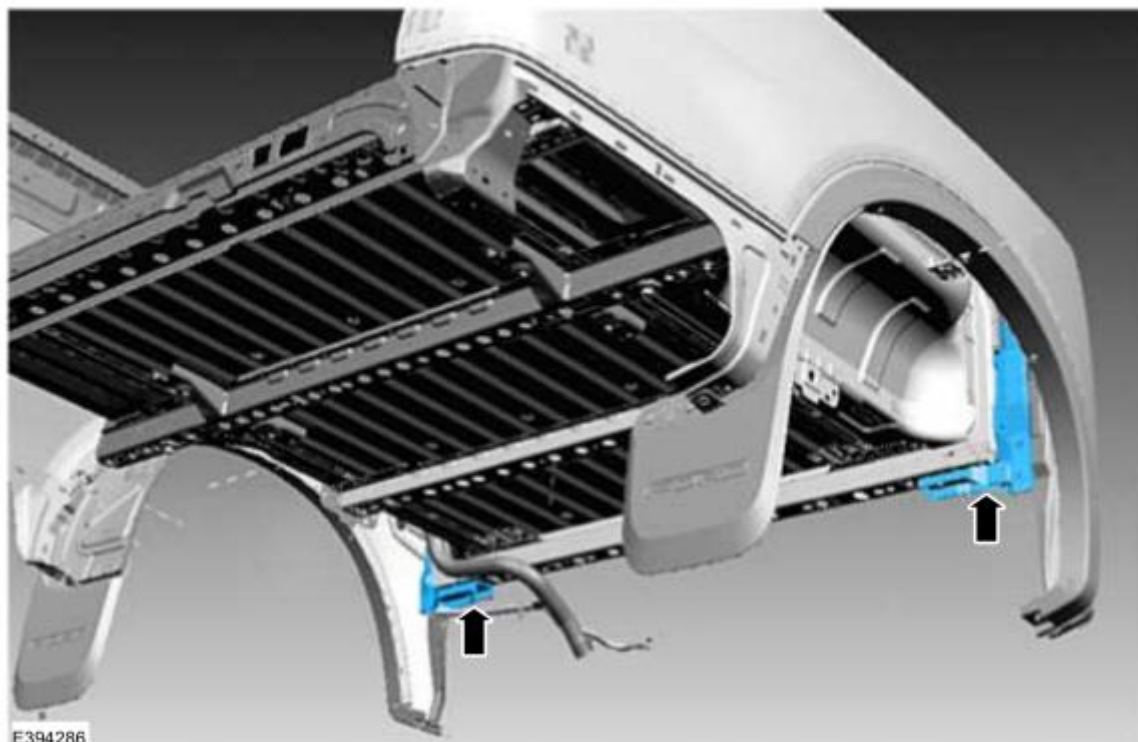


Figure 1



E394287

Figure 2

1. Remove the Right Hand Side (RHS) scrivets and the aero lip (where fitted). Repeat for the Left Hand Side (LHS). (Figure 3 and 4)

RHS shown, LHS similar.



E394288

Figure 3



E394289

Figure 4

2. Remove the lower bolt and carefully remove the rivets from the splash shields. Repeat for the Left Hand Side (LHS). (Figure 5)

**NOTE: The rivet mandrel is made from high strength stainless steel. To avoid melting the splash shield, drill out the mandrel with a sharp  $\varnothing$  4.0 mm Heavy-Duty high-cobalt drill (Suttons D109 0400 or equivalent.). Drill on a slow speed and attach vice grips or pliers to the back of the rivet to act as a heat sink.**

RHS shown, LHS similar.

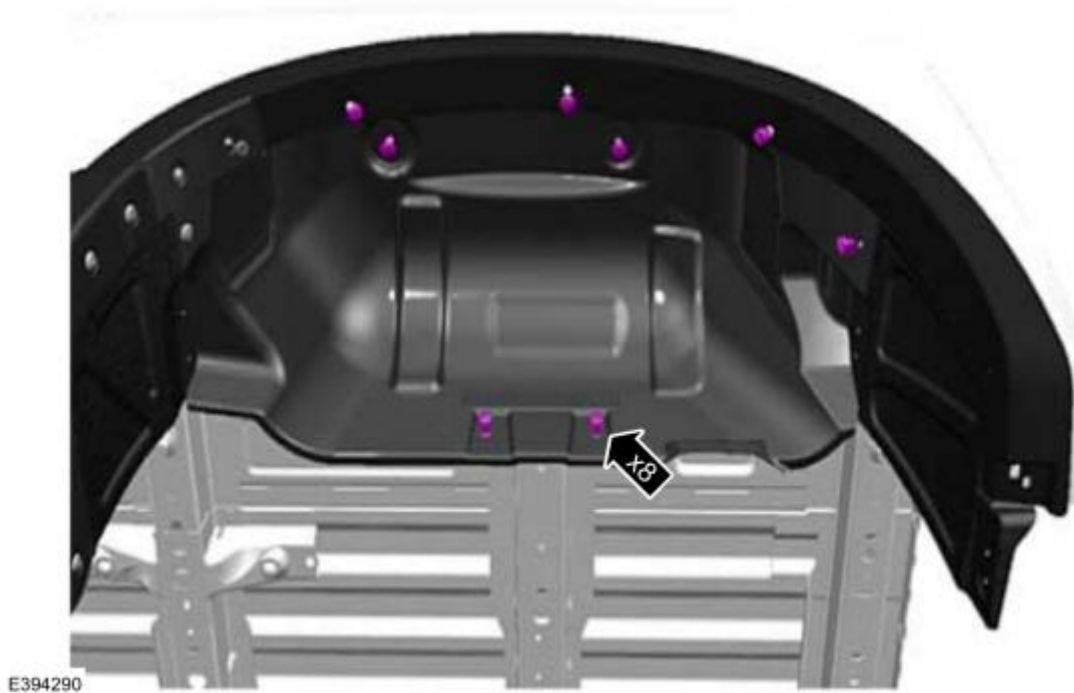


E394305

Figure 5

3. Once the mandrel has been drilled out, drill out the aluminium body of the rivet with  $\varnothing$  6.5 mm Heavy-Duty high-cobalt drill. Clean up any remaining rivet head with a mini belt grinder. (Figure 5)
4. Remove the scrivenets (X8) from the RHS wheel arch splash shield. Repeat for the LHS. (Figure 6)

RHS shown, LHS similar.



E394290

Figure 6

**5.** Slide the outer lip of the wheel arch liner out from under the wheel lip moulding by pushing it towards the centre of the vehicle. Take care not to damage the wheel lip liner. Repeat for the LHS (Figure 7)

RHS shown, LHS similar.



E394291

Figure 7

**6.** Remove the wheel arch liner. Repeat for the LHS. (Figure 8)

RHS shown, LHS similar.

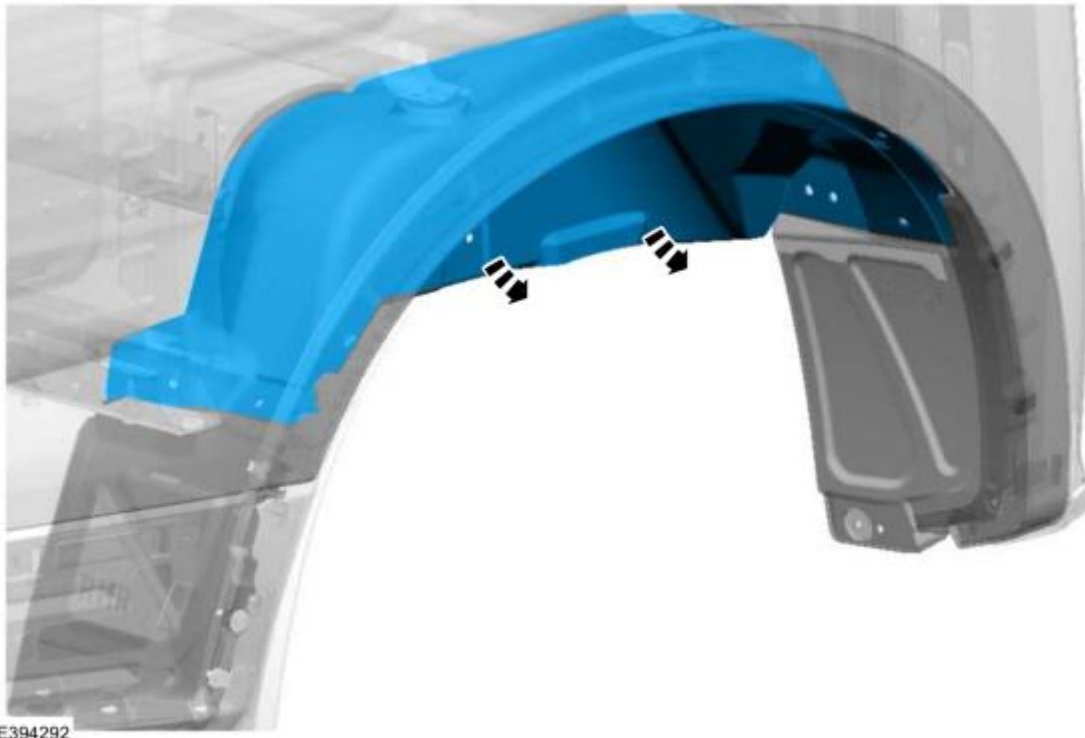


Figure 8

7. Squeeze the clips on the back of the wheel arch lip and pull the front part of the front part of the wheel arch lip from the tub to expose the splash guard bolts. Tip – an 8mm socket can help to squeeze the clip. (Figure 9 to 12)

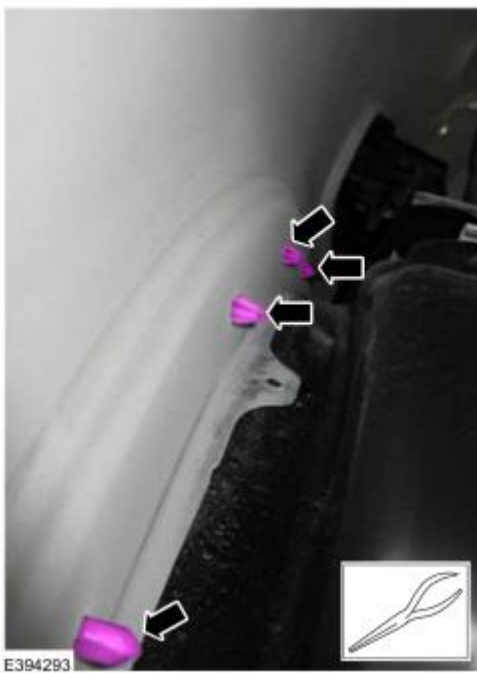


Figure 9



Figure 10

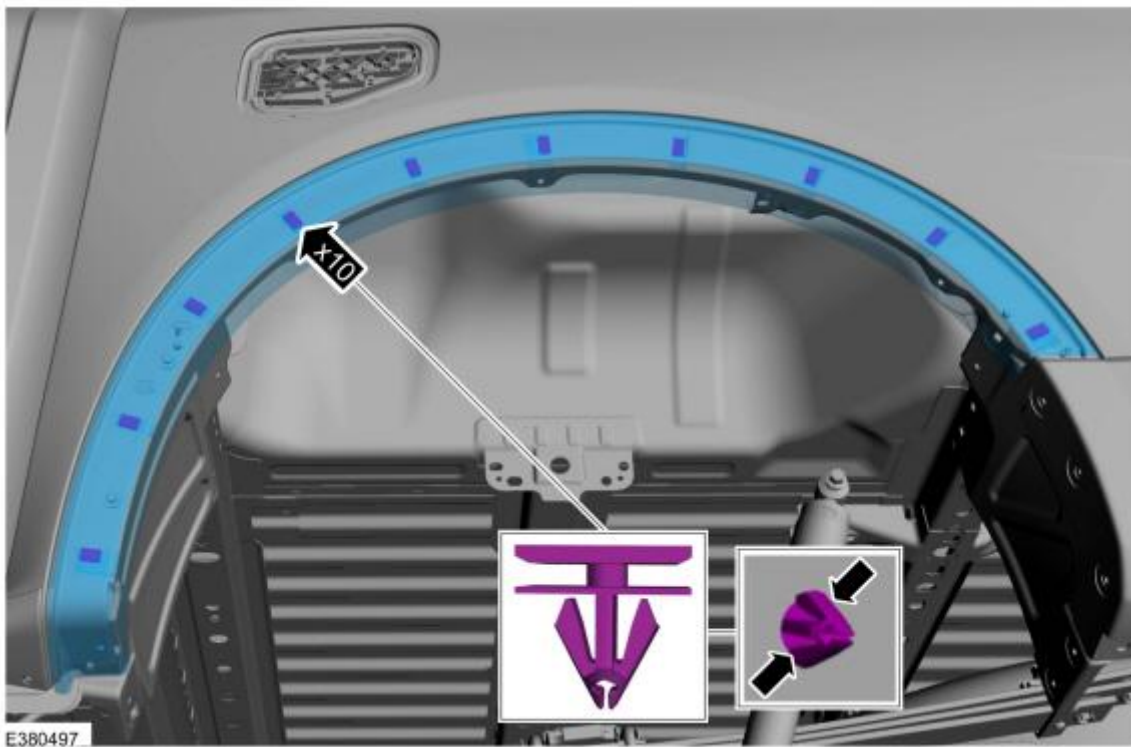


Figure 11



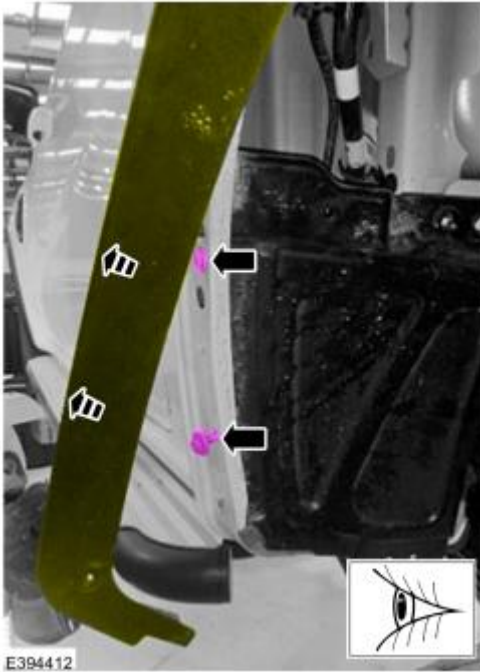


Figure 12

8. Carefully pull back the wheel arch lip moulding to access the lower rear arch moulding bolts (X2). Remove the bolts (X2) and the push pin. Detach the lower rear arch moulding from the vehicle. Repeat for the LHS. (Figure 13)

RHS shown, LHS similar.



Figure 13

9. Remove the rear wheel front side splash shield push pin. Repeat for the LHS. (Figure 14)

LHS shown RHS similar.

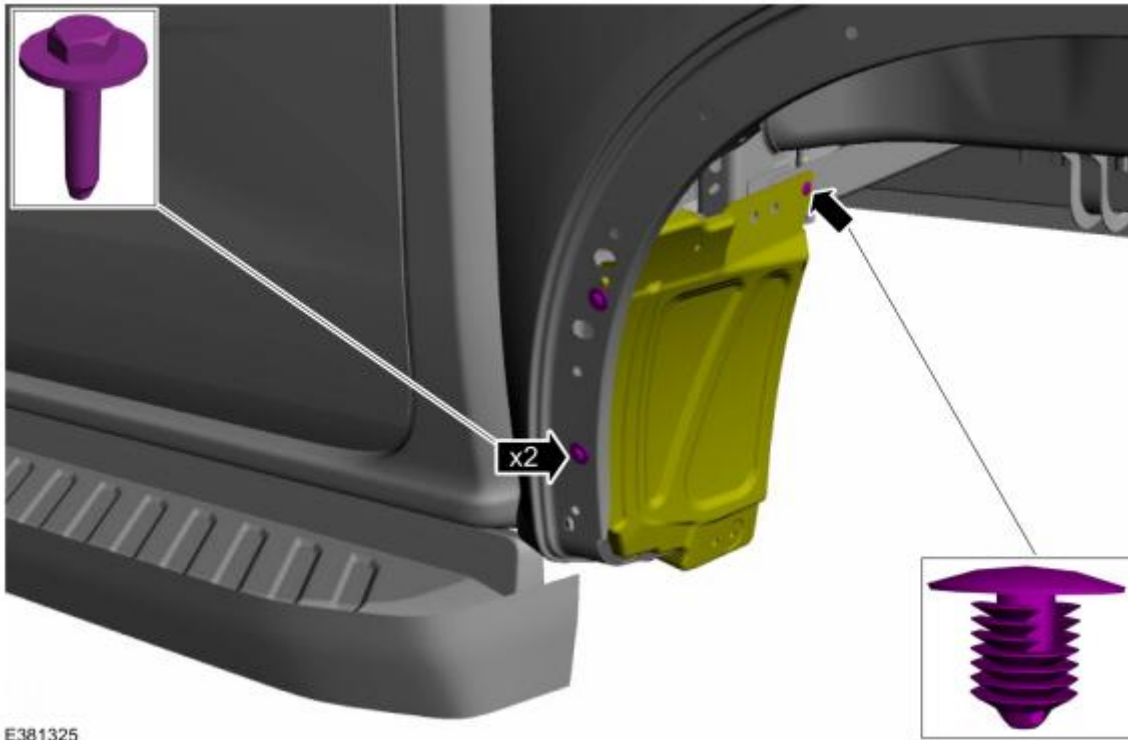


Figure 14

**10.** Remove the rear wheel front side splash shield. Repeat for the LHS. (Figure 15)  
LHS shown RHS similar.



Figure 15

**11.** Where applicable, unclip the roller shutter wiring harness as shown (RHS only). (Figure 16)





Figure 16

**12.** Where applicable, unclip the wiring harness from the fuel vent hose LHS only. (Figure 17-18)



Figure 17



Figure 18

13. Unclip the fuel vent hose from the vehicle body. Disconnect the hose from the elbow connector by pushing down on the clip. Cap both sides of the fuel vent hose to prevent debris from entering (LHS only). (Figure 19-20)

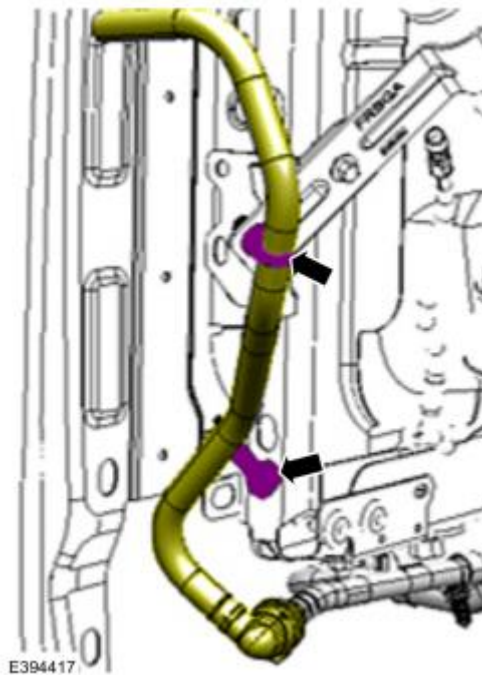


Figure 19

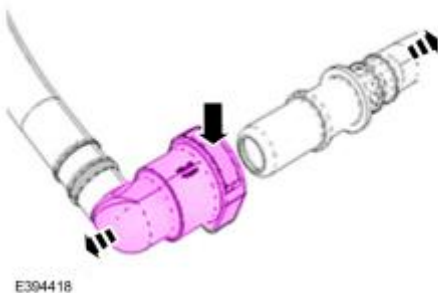


Figure 20

14. Remove the 2 structural bolts from the vehicle. Discard the M12X47 bolt as a new one will be required. Repeat for the LHS. (Figure 21)

RHS shown, LHS similar.

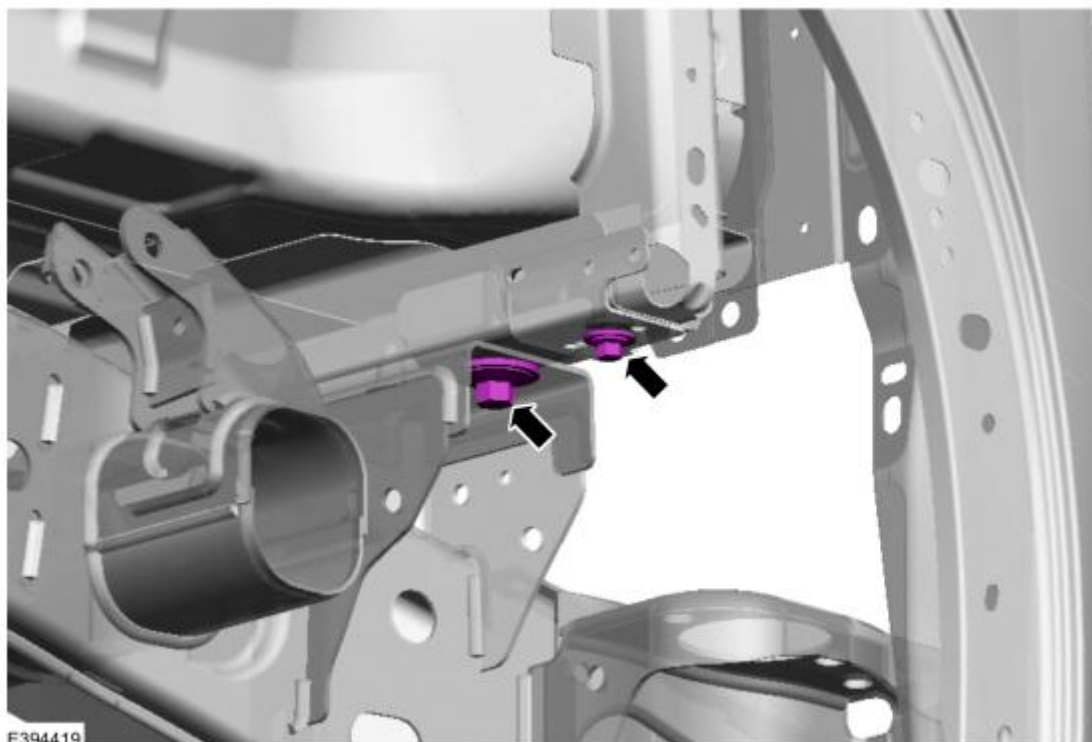


Figure 21

**15.** Scribe cutting lines on the tub reinforcement channel. Repeat for the LHS. (Figure 22)

RHS shown, LHS similar.

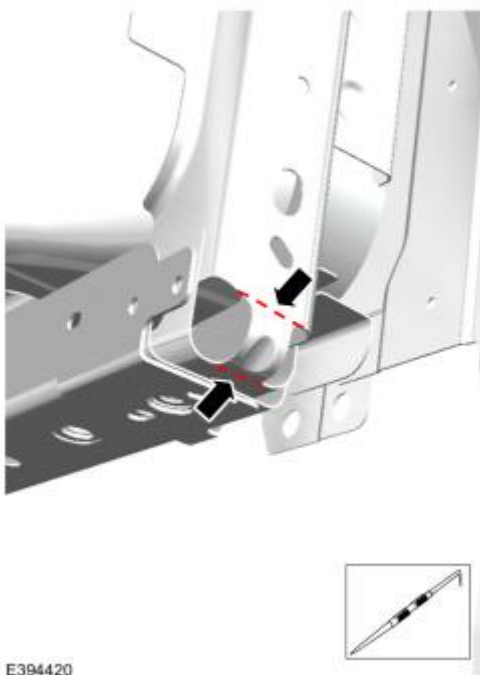
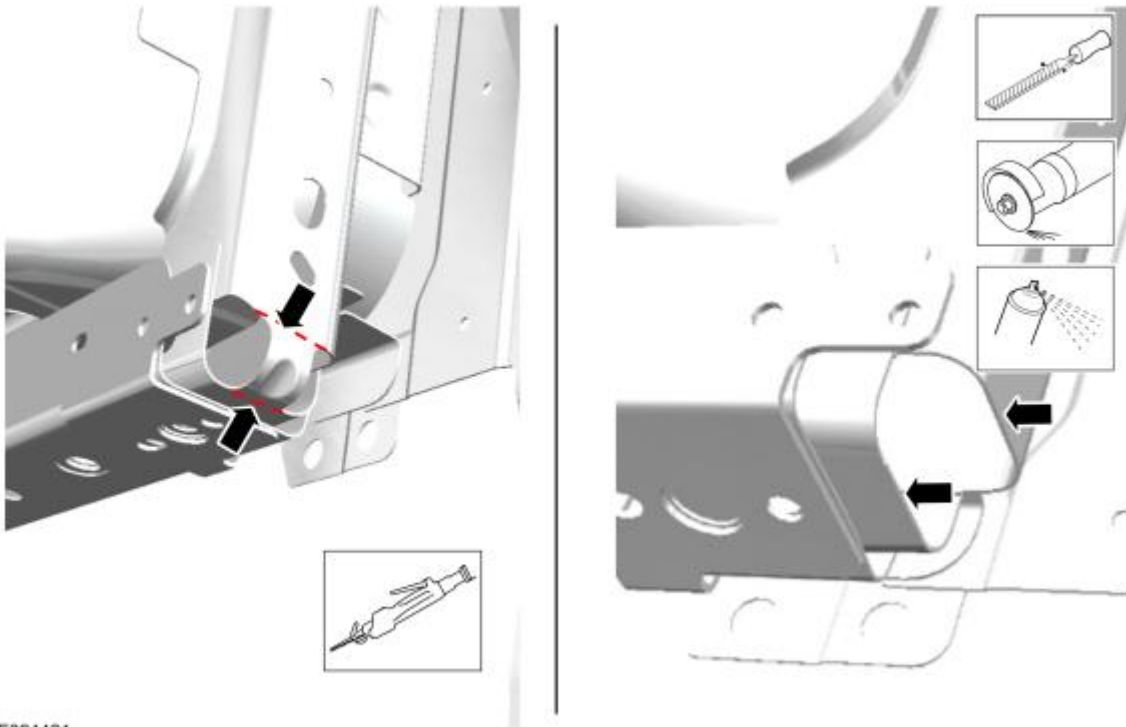


Figure 22

**16.** Cut the corners out of the tub reinforcement channel as shown with an air body saw. Remove any burs, sharp edges, and swarf from the cutting. Remove burrs or sharp edges with a file or mini grinder. Spray paint any exposed bare metal with etch primer. Repeat for the LHS. (Figure 23)

RHS shown, LHS similar.

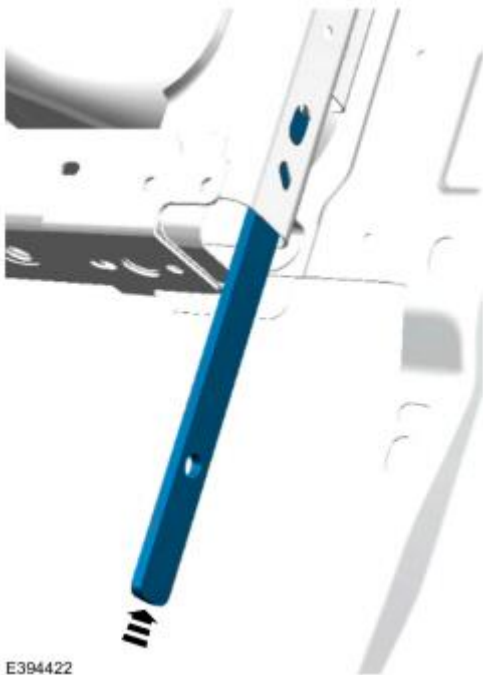


E394421

Figure 23

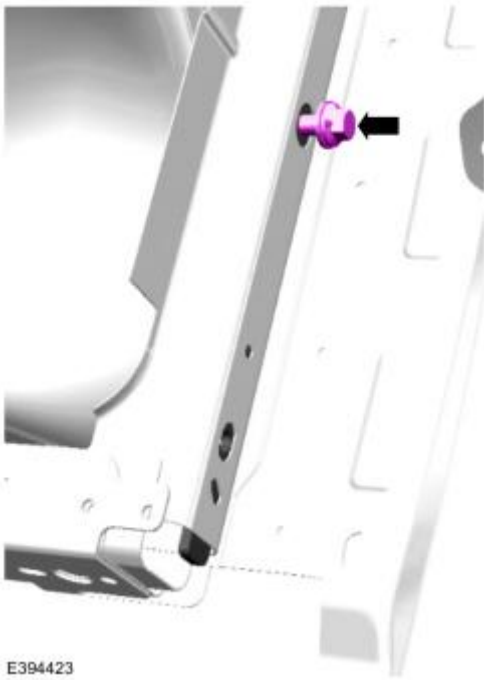
**17.** Insert the nut plate into the opening and finger tighten the upper bracket bolt M10X25 (Part No. W503314-S442) (to hold the nut plate in place). DO NOT tighten the upper bolt yet. Repeat for the LHS. (Figure 24-25)

RHS shown, LHS similar.



E394422

Figure 24

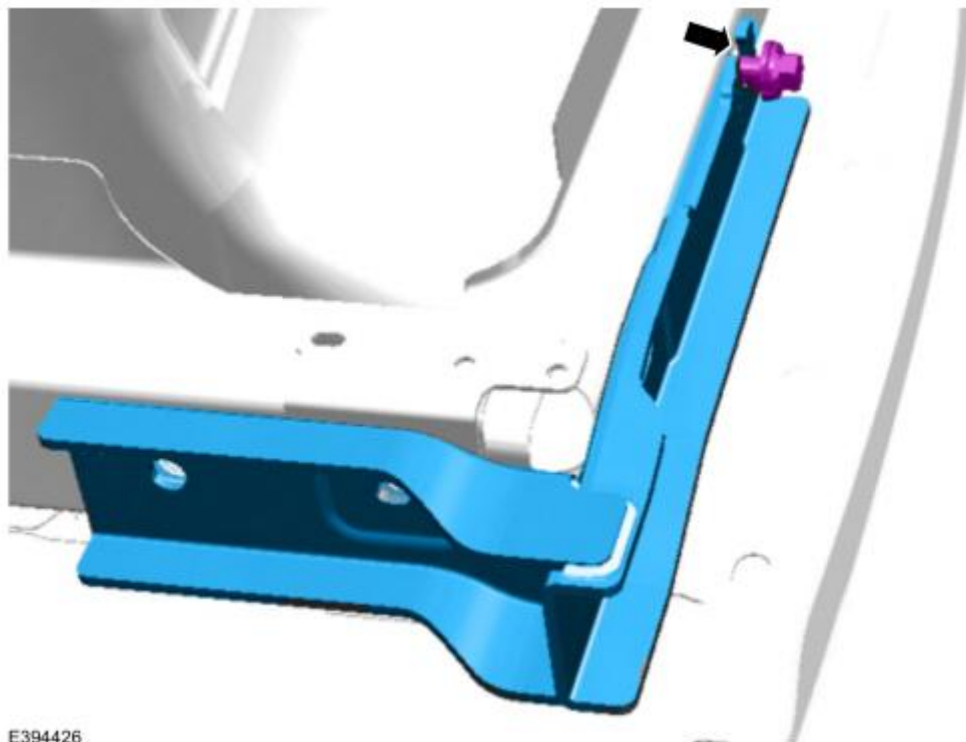


E394423

Figure 25

**18.** Slide and hook the bracket into place over the top bolt. DO NOT tighten the upper bolt yet. Repeat for the LHS. (Figure 26)

RHS shown, LHS similar.

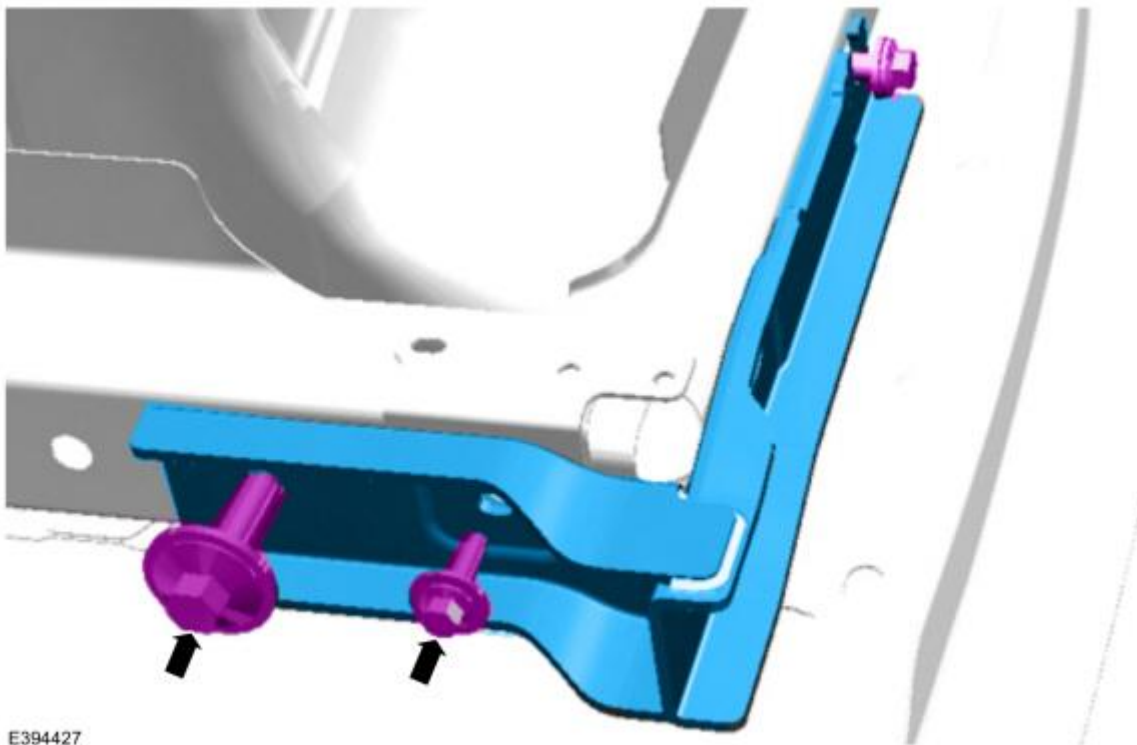


E394426

Figure 26

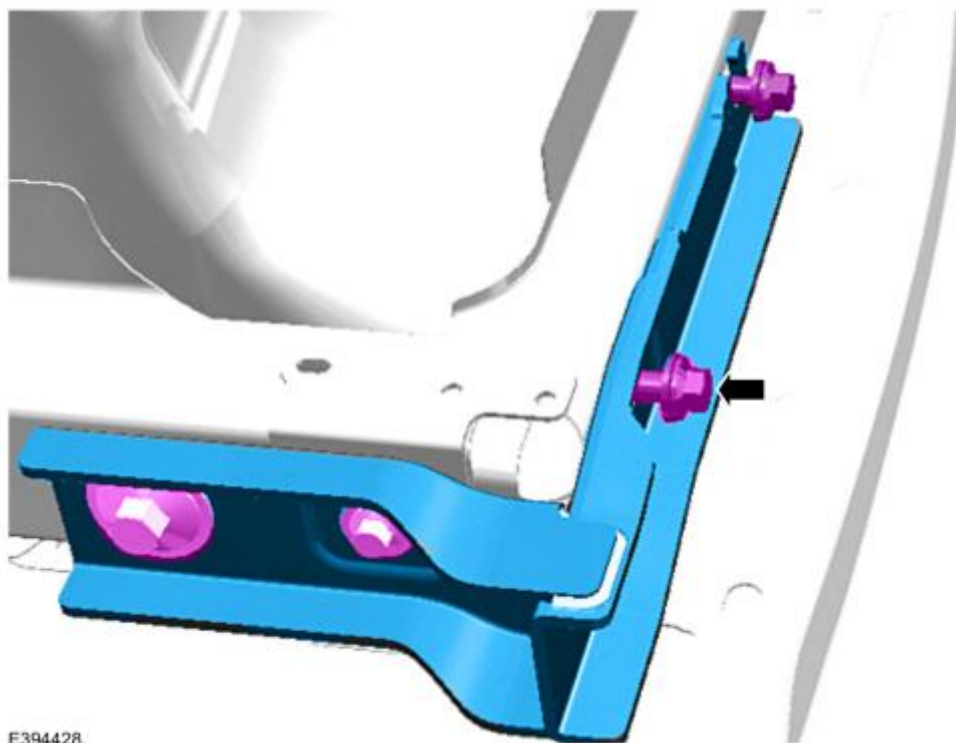
**19.** Install the new M12X47 structural bolt, existing M8X25 bolt (Part No. W711806-S422) and remaining upper bracket bolt M10X25 (Part No. W503314-S442). Tighten these bolts finger tight only. Repeat for the LHS. (Figure 27-28)

RHS shown, LHS similar.



E394427

Figure 27



E394428

Figure 28

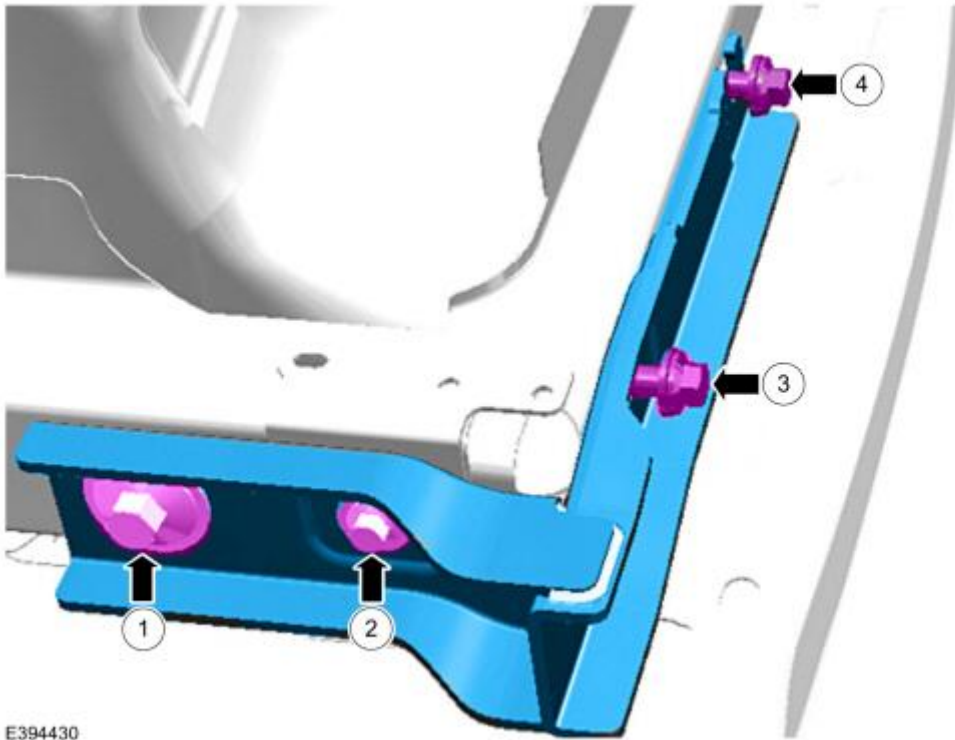
**20.** Tighten the structural bolts in the sequence as shown in the image. Torque to the required specification.  
Repeat for the LHS. (Figure 29)

RHS shown, LHS similar.

Torque:

- (1). M12X47 -  $125.5 \pm 18 \text{ Nm}$
- (2). M8X25 -  $25 \pm 3.8 \text{ Nm}$
- (3). M10X25 -  $47.5 \pm 7.2 \text{ Nm}$  (lower)
- (4). M10X25 -  $47.5 \pm 7.2 \text{ Nm}$  (upper)

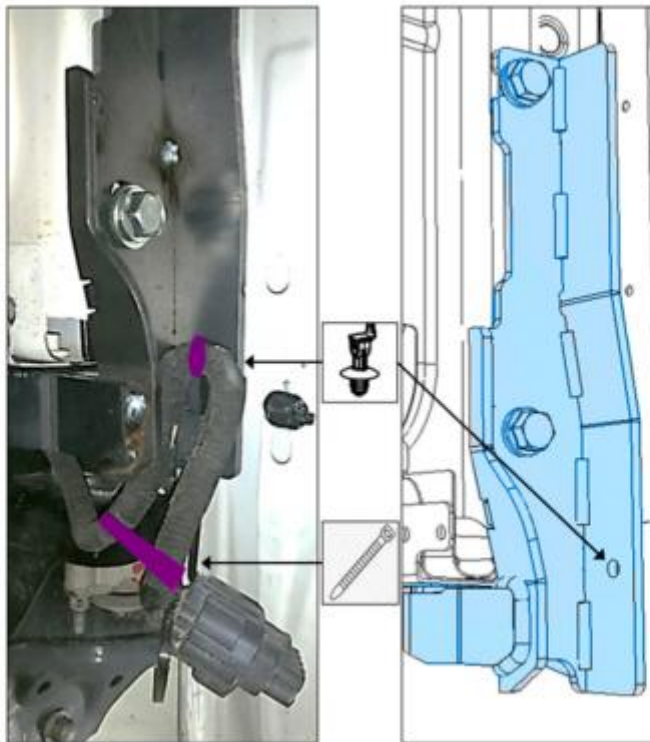




E394430

Figure 29

**21.** Where applicable, refit the wiring harness. Use the provided zip ties to secure the connector and any loose harness as shown (RHS only). (Figure 30)



E394549

Figure 30

**22.** Diesel variants - Re-position the fuel vent hose. Replace the existing tie strap clips on the fuel vent hose and fit onto the brackets as shown in the images. DO NOT reuse the existing tie strap clips (LHS only). (Figure 31)

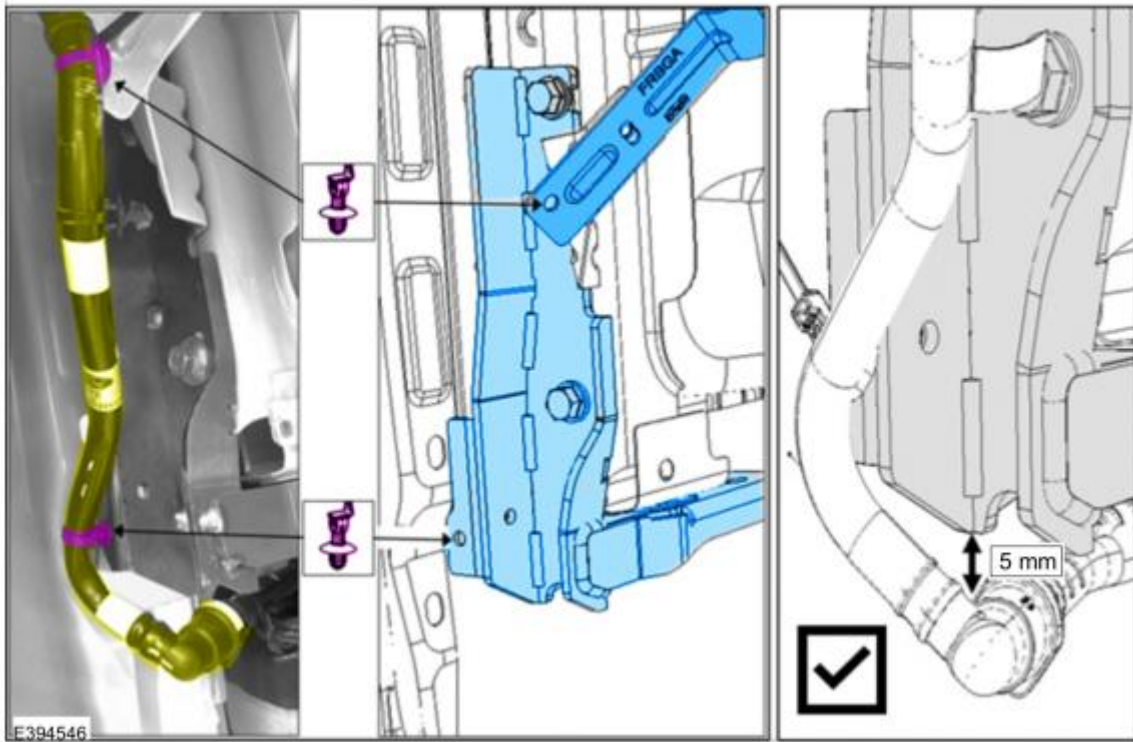


Figure 31

Petrol Variants - Re-position the fuel vent hose. Replace the existing tie strap clips on the fuel vent hose and fit onto the brackets as shown in the images. DO NOT reuse the existing tie strap clips (LHS only). (Figure 32)

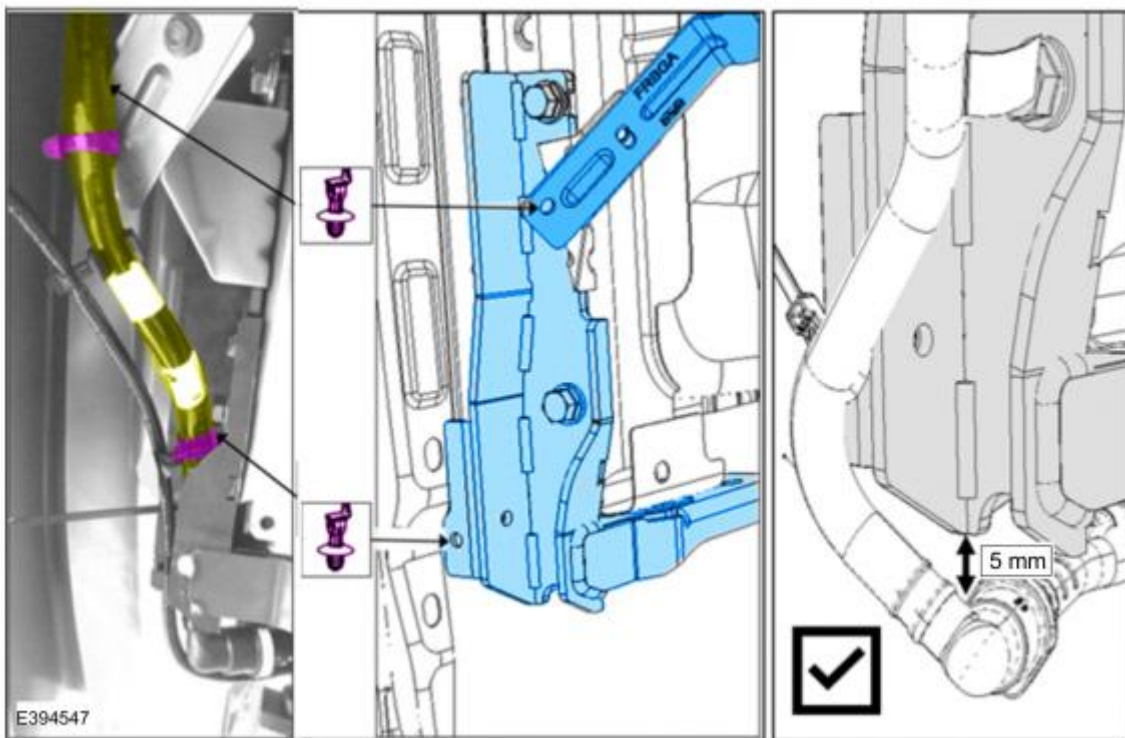
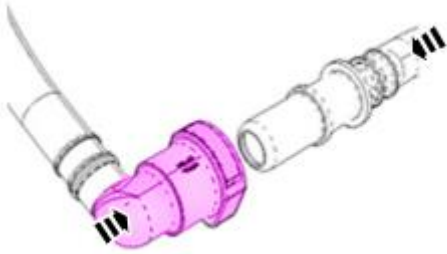


Figure 32

**23.** Remove the caps from the fuel vent hose. Reconnect the fuel vent hose at the elbow connector. Ensure the hose is connected and the clip is fully engaged (RHS only). (Figure 33)

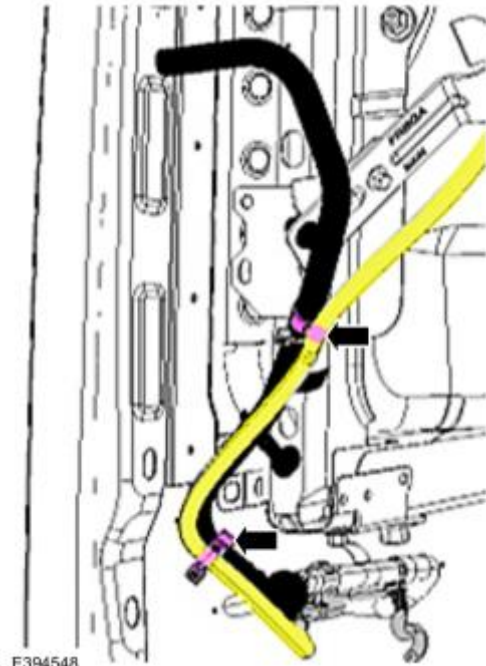


E394552

Figure 33

24. Where applicable, reinstall the wiring harness back to the fuel vent hose (RHS only). (Figure 34)

**NOTE: All fuel line and wiring harnesses must comply with The Ford Ranger P703 Body and Equipment Mounting Manual (BEMM) requirements.**



E394548

Figure 34

25. Install the wheel arch liner and splash guards. Using a pneumatic rivet gun, install the new rivets supplied in the kit. Refit the lower bolt. Repeat for the LHS. (Figure 35)

**NOTE: The rivets are a structural part of the assembly, so correct rivets and assembly methods must be used.**

Torque:  $9.0 \pm 4.0 \text{ Nm}$

RHS shown, LHS similar.



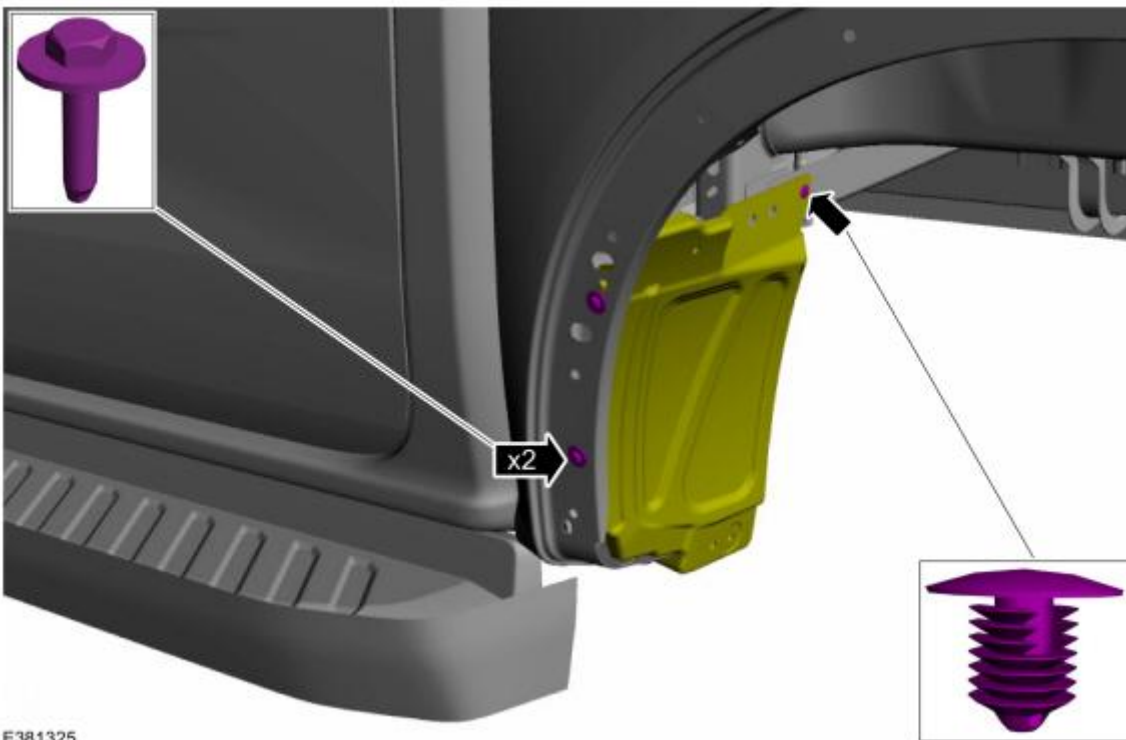
E394544

Figure 35

**26.** Refit the bolts and torque to specifications. Refit the push pin. Repeat for the LHS. (Figure 36-37)

Torque:  $9.0 \pm 4.0 \text{ Nm}$

LHS shown, RHS similar.



E381325

Figure 36

RHS shown, LHS similar.

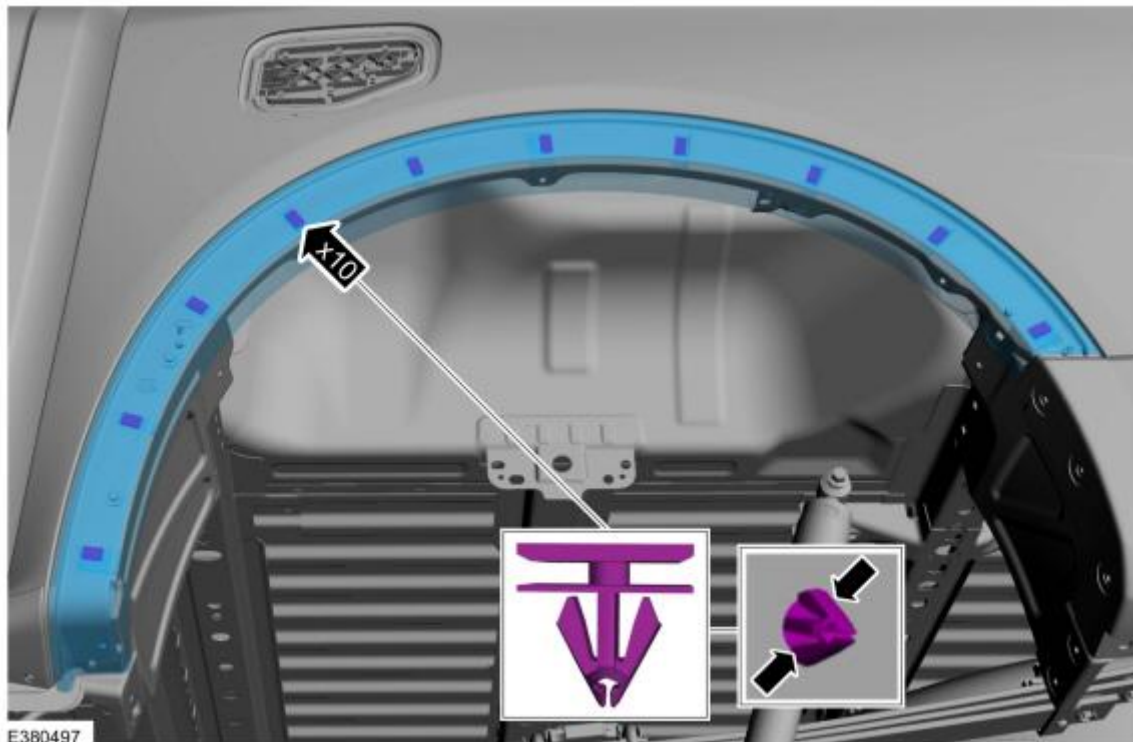


E394413

Figure 37

**27.** Reinstall the wheel lip moulding. Replace any damaged clips on the wheel lip moulding. Repeat for the LHS. (Figure 38)

RHS shown, LHS similar.



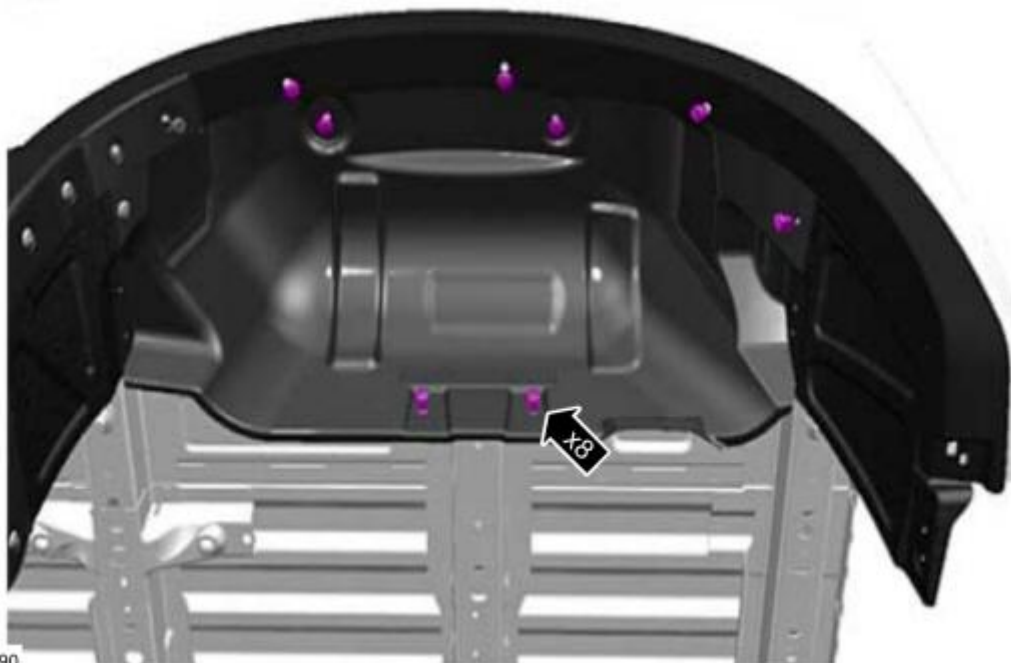
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Figure 38

**28.** Reinstall the scrivenets (X8). Replace any damaged clips on the wheel arch liner. Repeat for the LHS. (Figure 39)

RHS shown, LHS similar.





E394290

Figure 39

**29.** Where applicable, reinstall the aero lip and scrivets (X2). Replace any damaged clips. Repeat for the LHS. (Figure 40)

RHS shown, LHS similar.



E394288

Figure 40

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