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2020.0 DEFENDER (LE), 501-30

REAR END SHEET METAL REPAIRS

REAR SIDE MEMBER CLOSING PANEL AND INNER WHEELHOUSE ASSEMBLY - 90 (G2452627)

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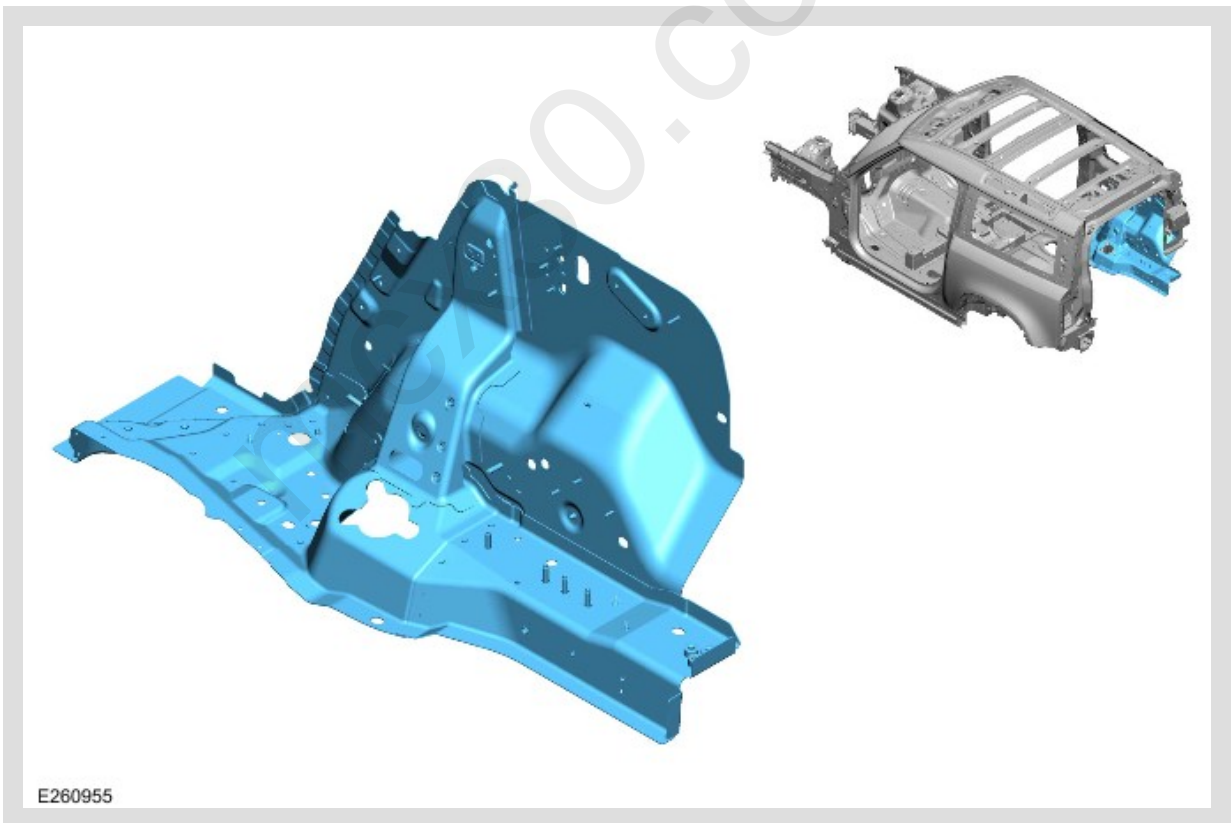
REMOVAL

 NOTE:

In this procedure the rear side member closing panel and inner wheelhouse assembly is installed in conjunction with:

- Rear side member closing panel
- Rear wheelhouse outer
- Rear side member.

1.



The rear side member closing panel and inner wheelhouse assembly is serviced as indicated.

2. Before commencing this procedure make sure that you are aware of all Health and Safety requirements. Refer to: [Health and Safety Precautions](#) (100-00 General Information, Description and Operation).

**NOTES:**

- Where Breakstem Fastener (BSF) removal is instructed remove the fastener shaft with a 4 mm punch and remove the head with a 6.5 mm drill bit. Clean all the drilled holes to make sure they are free from debris.
- Where Self Piercing Rivet (SPR) removal is instructed use either the Jaguar Land Rover (JLR) approved SPR tool or a 5.3 mm drill bit. Clean all the drilled holes to make sure they are free from debris.
- Any joints sealed as part of vehicle manufacture must be sealed as part of the repair.
- To make sure that the vehicle is correctly aligned it must be placed on a JLR approved alignment jig.

When installing the rear side member closing panel and inner wheelhouse assembly make sure that you are aware of the methods, tools and fixings used in this procedure.

Refer to: [Body Repairs](#) (501-25A Body Repairs - General Information, Description and Operation).

Refer to: [Adhesives, Fixings and Consumables](#) (501-25A Body Repairs - General Information, Description and Operation).

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4. For additional information on the fixings required to complete this procedure

Refer to: [Specifications - 110](#) (501-30 Rear End Sheet Metal Repairs, Specifications).

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5. For additional removal information

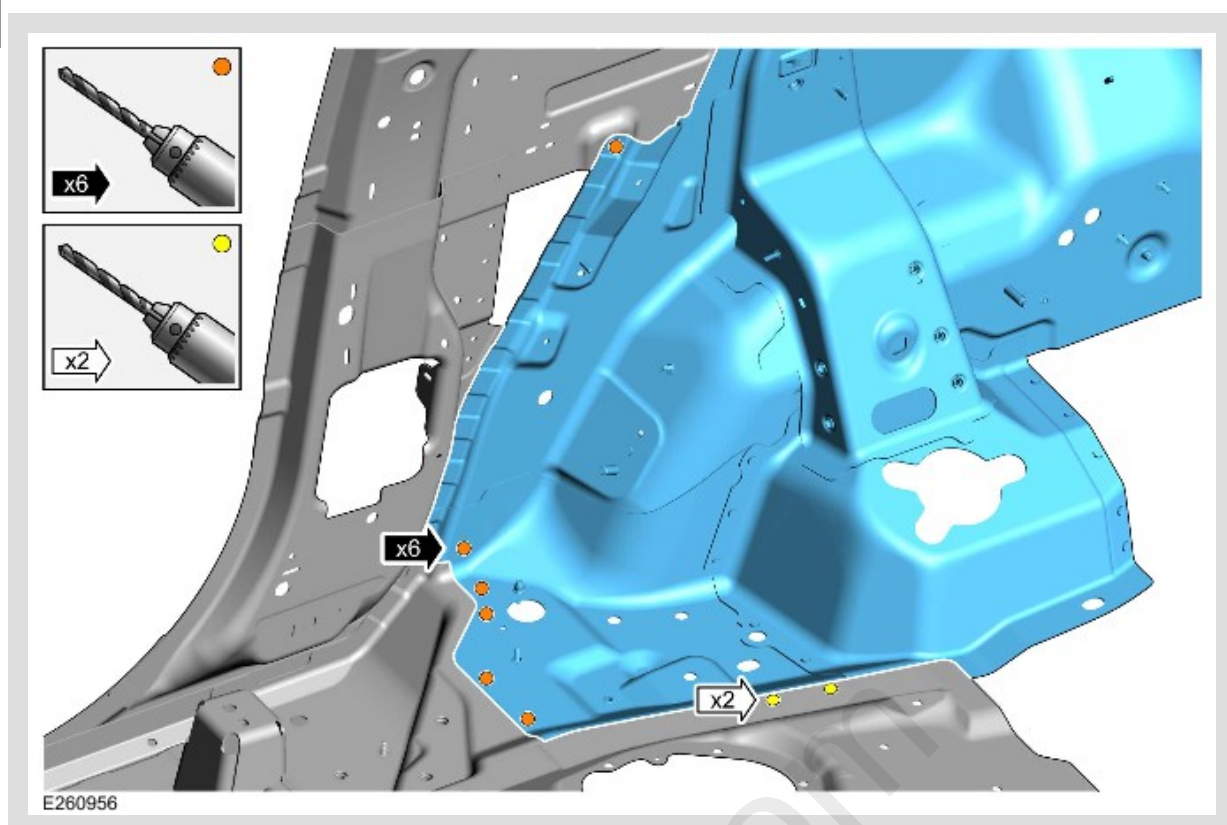
Refer to: [Rear Side Member Closing Panel - 90](#) (501-30 Rear End Sheet Metal Repairs, Removal and Installation).

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6. For additional removal information

Refer to: [Rear Wheelhouse Outer - 90](#) (501-30 Rear End Sheet Metal Repairs, Removal and Installation).

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7. For additional removal information

Refer to: [Rear Side Member - 90](#) (501-30 Rear End Sheet Metal Repairs, Removal and Installation).



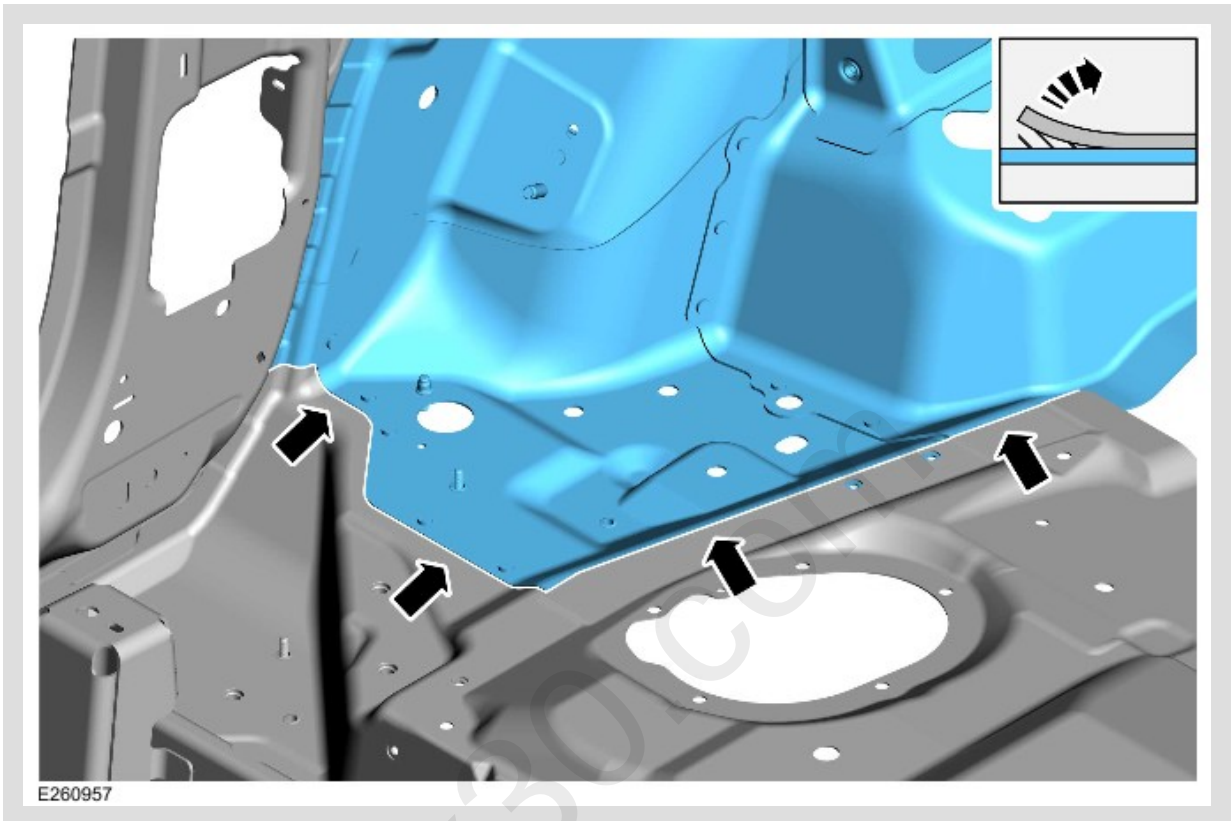
Remove the self piercing rivets and breakstem fasteners as indicated.

9.



⚠ CAUTION:

This step will require the aid of another technician as the panel will be heavy.



Carefully separate the joints and remove the side member closing panel and inner wheelhouse assembly.

INSTALLATION

⚠ CAUTION:

Where structural adhesive is to be applied between surfaces it is essential compression is applied to the joints during the curing period.

△ NOTE:

Breakstem Fastener (BSF) installation involves using the JLR approved BSF installation tool and requires a hole diameter of 6.5 mm.

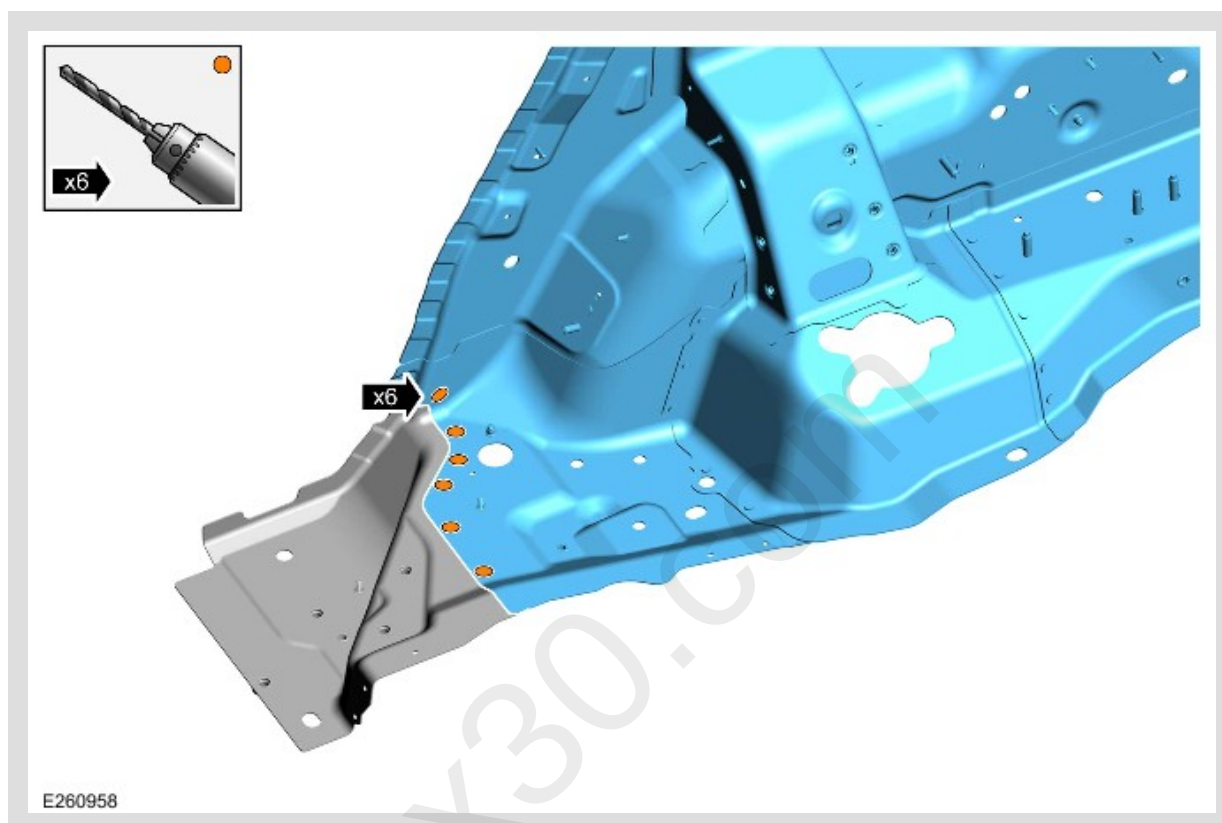
1. Remove the rivet remnants.

2. Dress the flanges where necessary.

3.

 NOTE:

Installation of the rear side member closing panel and inner wheelhouse assembly will require the removal of the lower front extension panel.



Remove the self piercing rivets as indicated.

4. Carefully separate the joints and remove the lower front extension panel from the new rear side member closing panel and inner wheelhouse assembly.

5.

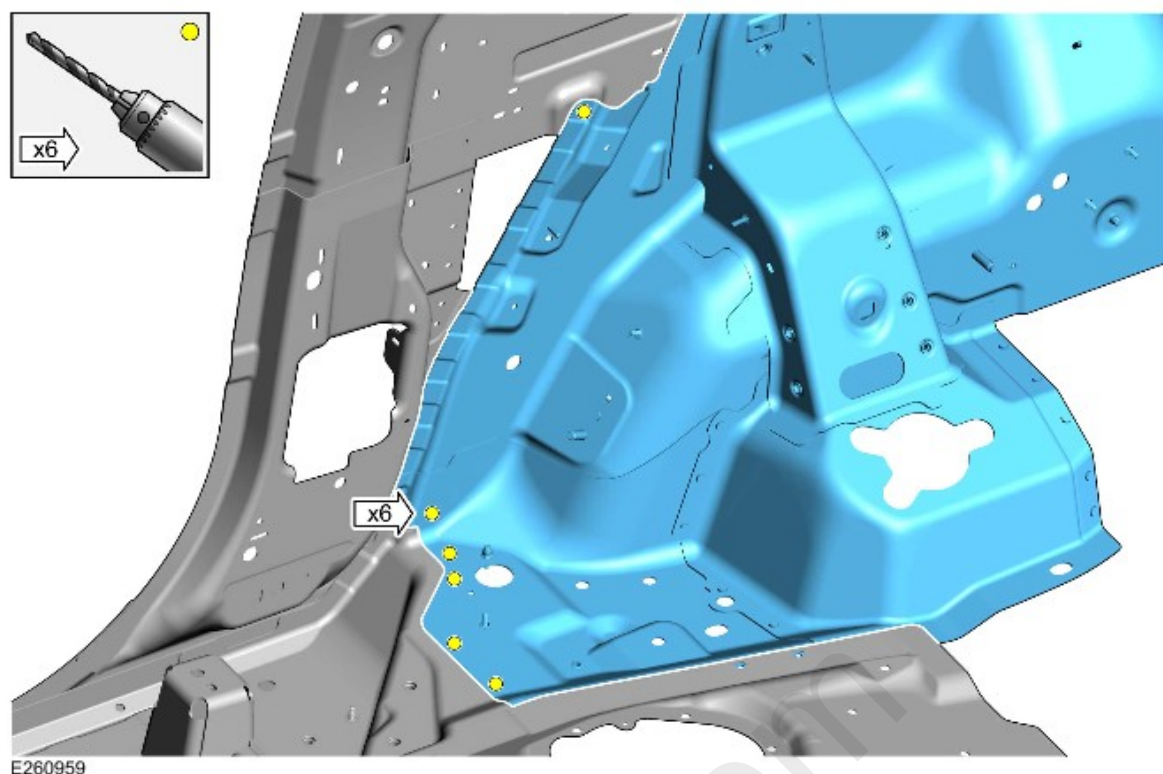


 CAUTION:

This step will require the aid of another technician as the panel will be heavy.

Offer up the new rear side member closing panel and inner wheelhouse assembly. Clamp into position. Check alignment, if correct proceed to next step, if not rectify and check the alignment again before proceeding.

6.



Drill holes where the Breakstem Fasteners (BSFs) are to be installed as indicated.

7.



ⓘ CAUTION:

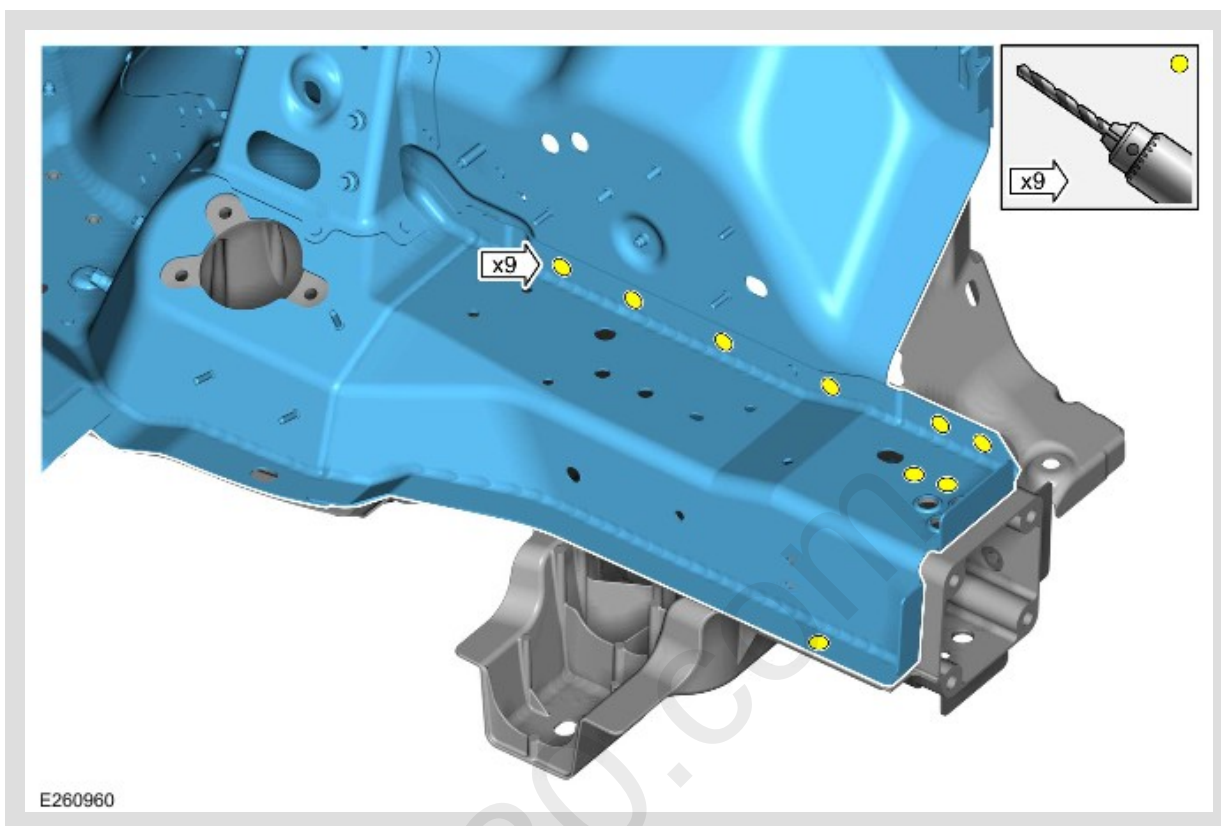
This step will require the aid of another technician as the panel will be heavy.

Offer up the new rear side member and clamp into position. Check alignment, if correct proceed to next step, if not rectify and check the alignment again before proceeding.

8.

NOTE:

When installing the rear side member closing panel and inner wheelhouse assembly in conjunction with the rear side member.

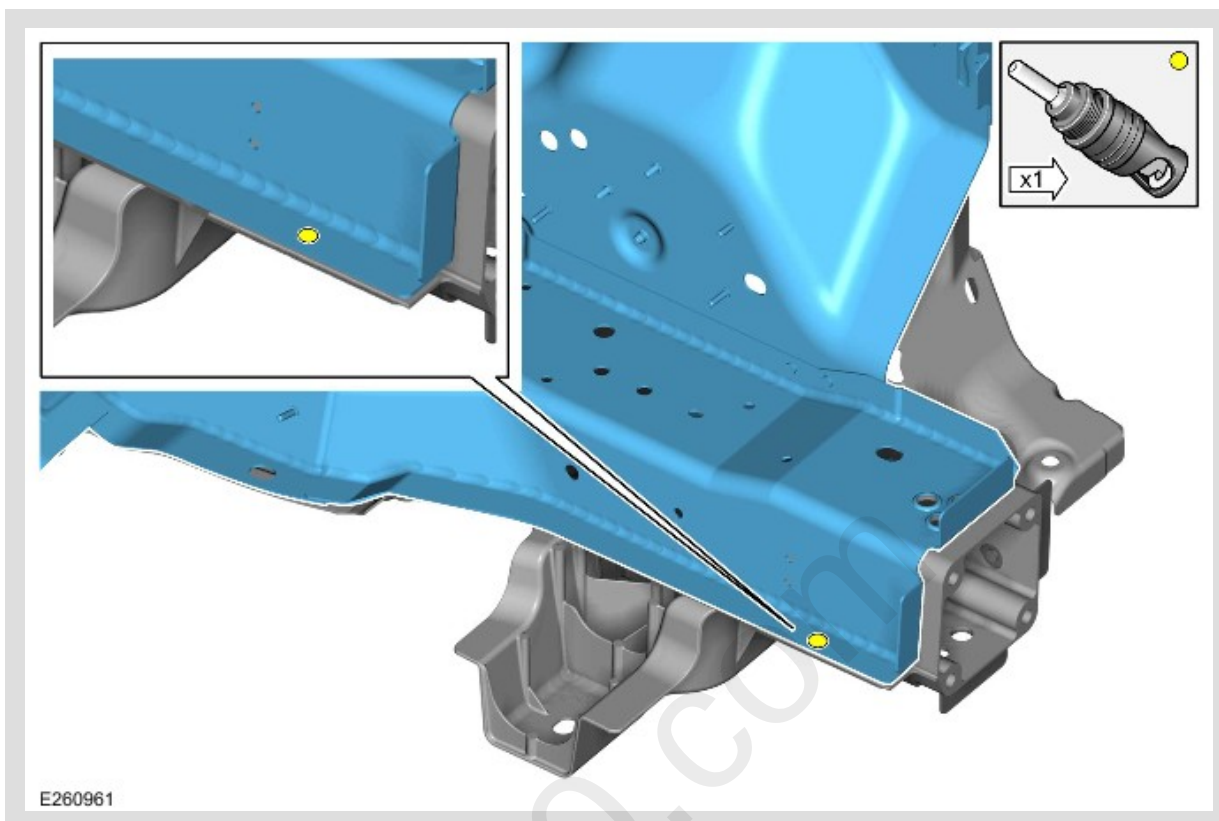


Drill holes where the BSFs are to be installed as indicated.

9.

 NOTE:

Make sure that the JLR recommended countersink tool is used for this step.



Countersink the hole to a depth of 2 mm as indicated.

10.



 CAUTION:

This step will require the aid of another technician as the panel will be heavy.

Remove the new rear side member.

11.



 CAUTION:

This step will require the aid of another technician as the panel will be heavy.

Remove the new rear side member closing panel and inner wheelhouse assembly.

12.

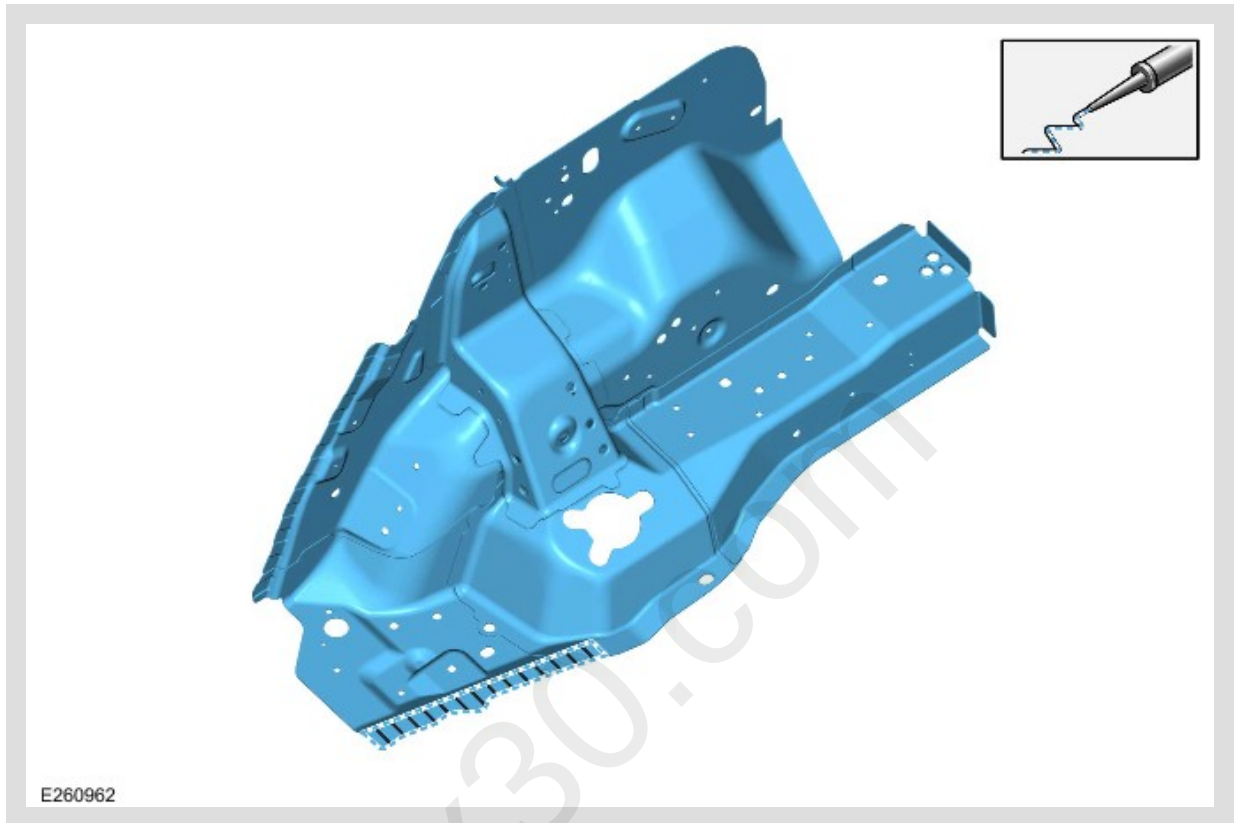
Deburr the drilled holes.

13. Clean and prepare the panel surfaces.

14.

 NOTE:

Make sure a continuous bead of adhesive surrounds the fixing holes.

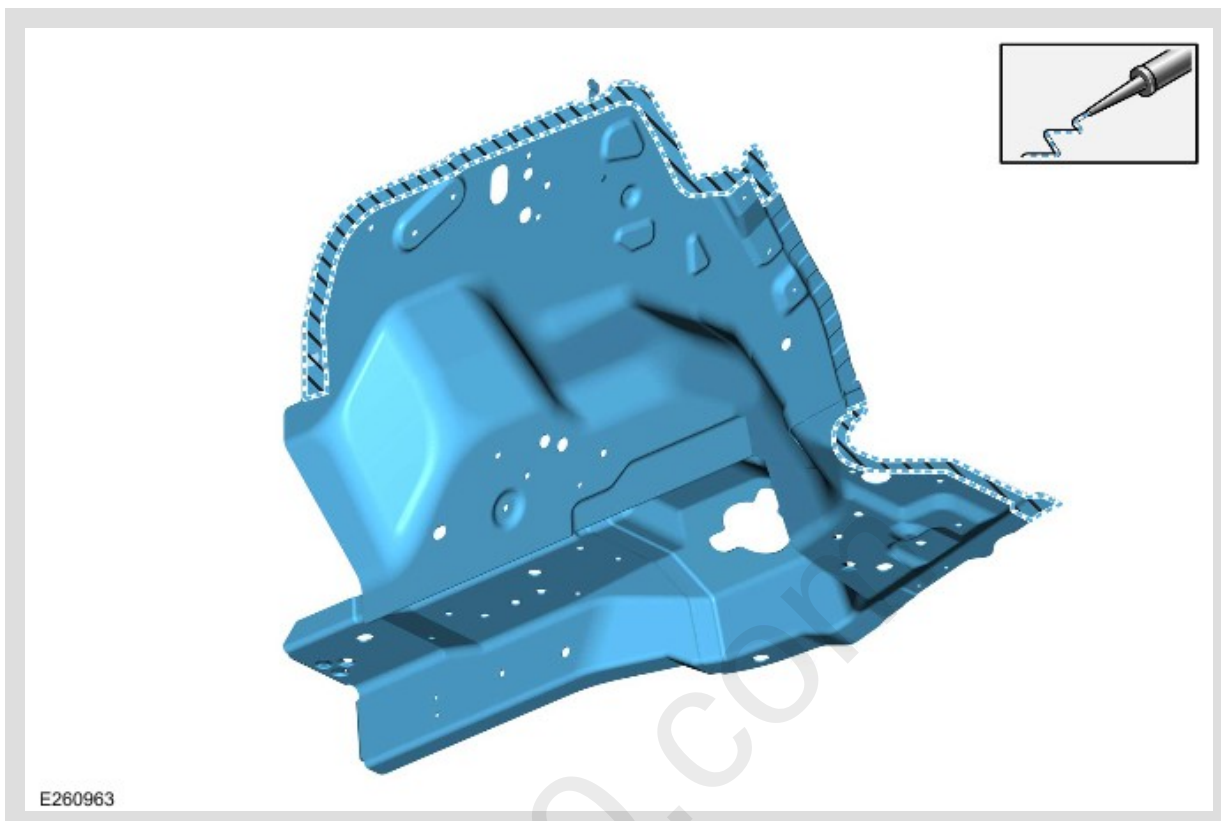


Apply a 5 mm zig zag bead of the JLR recommended bonding material as indicated.

15.

 NOTE:

Make sure a continuous bead of adhesive surrounds the fixing holes.



Apply a 5 mm zig zag bead of the JLR recommended bonding material as indicated.

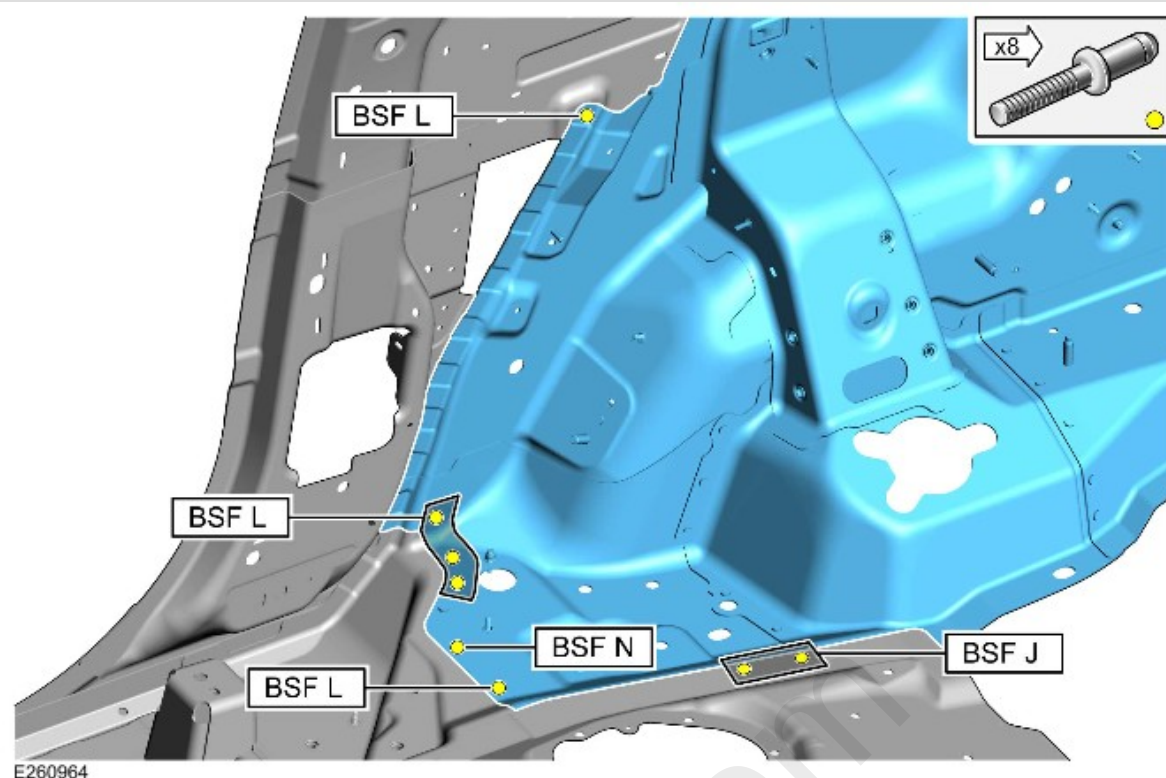
16.

 **CAUTION:**

This step will require the aid of another technician as the panel will be heavy.

Offer up the new rear side member closing panel and inner wheelhouse assembly. Clamp into position. Check alignment, if correct proceed to next step, if not rectify and check the alignment again before proceeding.

17.



Install the BSFs as indicated.

18.



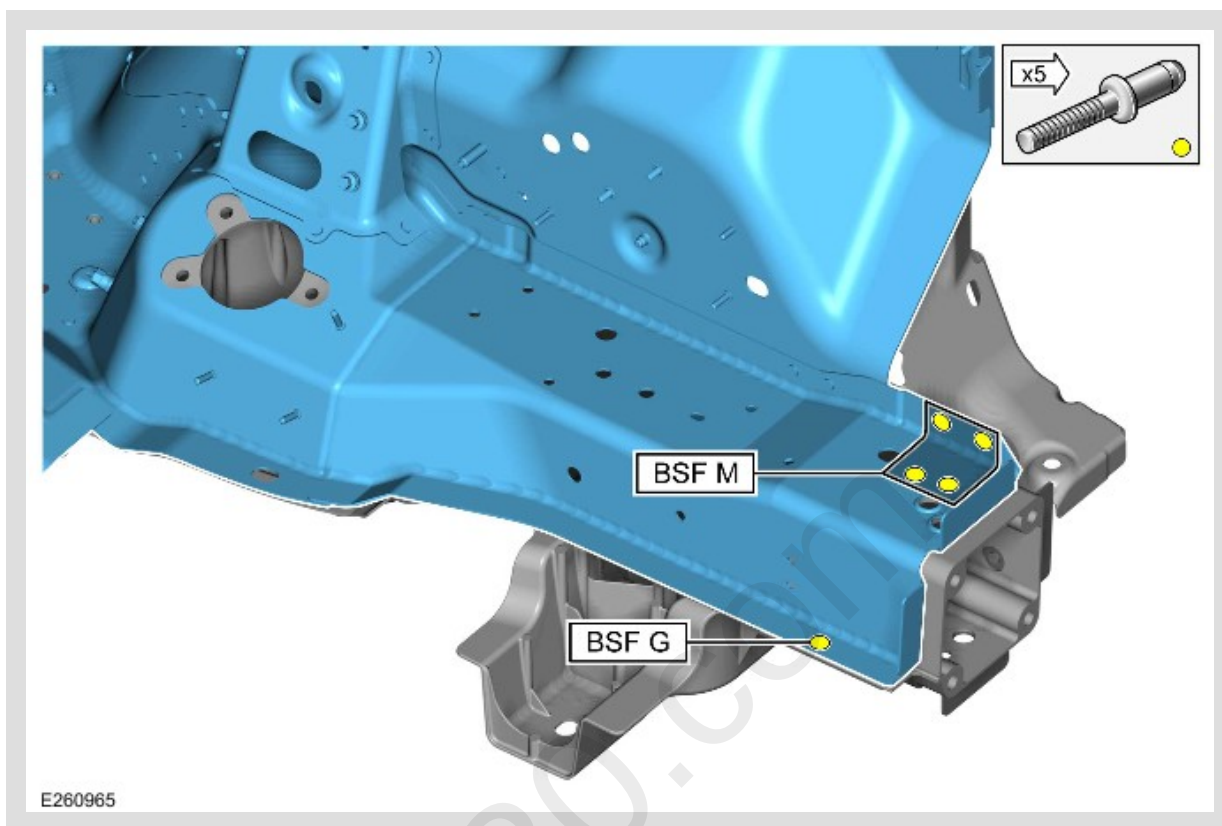
⚠ CAUTION:

This step will require the aid of another technician as the panel will be heavy.

Offer up the new rear side member and clamp into position. Check alignment, if correct proceed to next step, if not rectify and check the alignment again before proceeding.

 NOTE:

When installing the rear side member closing panel and inner wheelhouse assembly in conjunction with the rear side member.

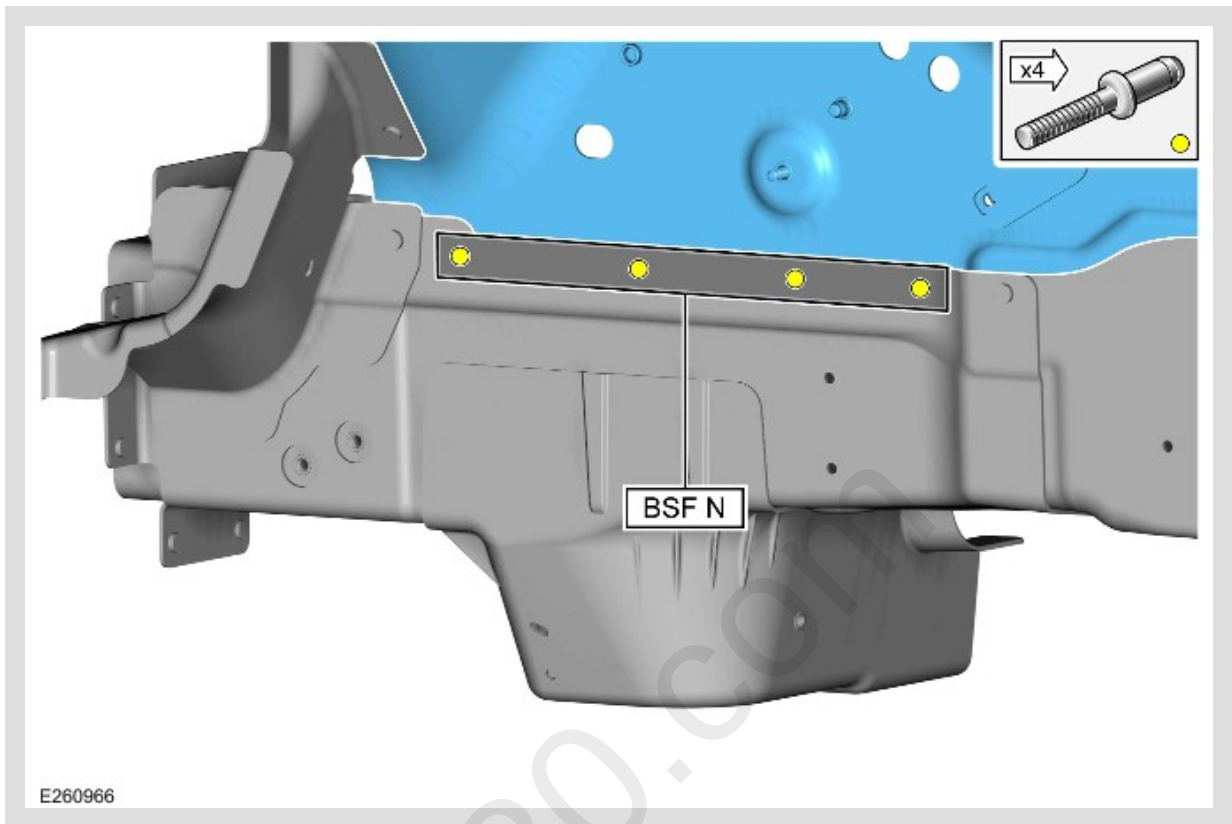


Install the BSFs as indicated.

20.

 NOTE:

When installing the rear side member closing panel and inner wheelhouse assembly in conjunction with the rear side member.



Install the BSFs as indicated.

21. Remove any excess adhesive.

22. Make sure that all BSFs are sealed using a JLR recommended sealer.

23. Make sure that any open or exposed panel joints are correctly sealed.

24. Make sure corrosion protection is applied to all areas affected by the repair.

 NOTE:

The installation of associated panels and components is the reversal of the removal procedure.

25. For additional installation information

Refer to: [Rear Side Member - 90](#) (501-30 Rear End Sheet Metal Repairs, Removal and Installation).

26. For additional installation information

Refer to: [Rear Wheelhouse Outer - 90](#) (501-30 Rear End Sheet Metal Repairs, Removal and Installation).

27. For additional installation information

Refer to: [Rear Side Member Closing Panel - 90](#) (501-30 Rear End Sheet Metal Repairs, Removal and Installation).

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