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2020.0 DEFENDER (LE), 501-29

SIDE PANEL SHEET METAL REPAIRS

ROCKER PANEL REINFORCEMENT - 110 (G2415433)

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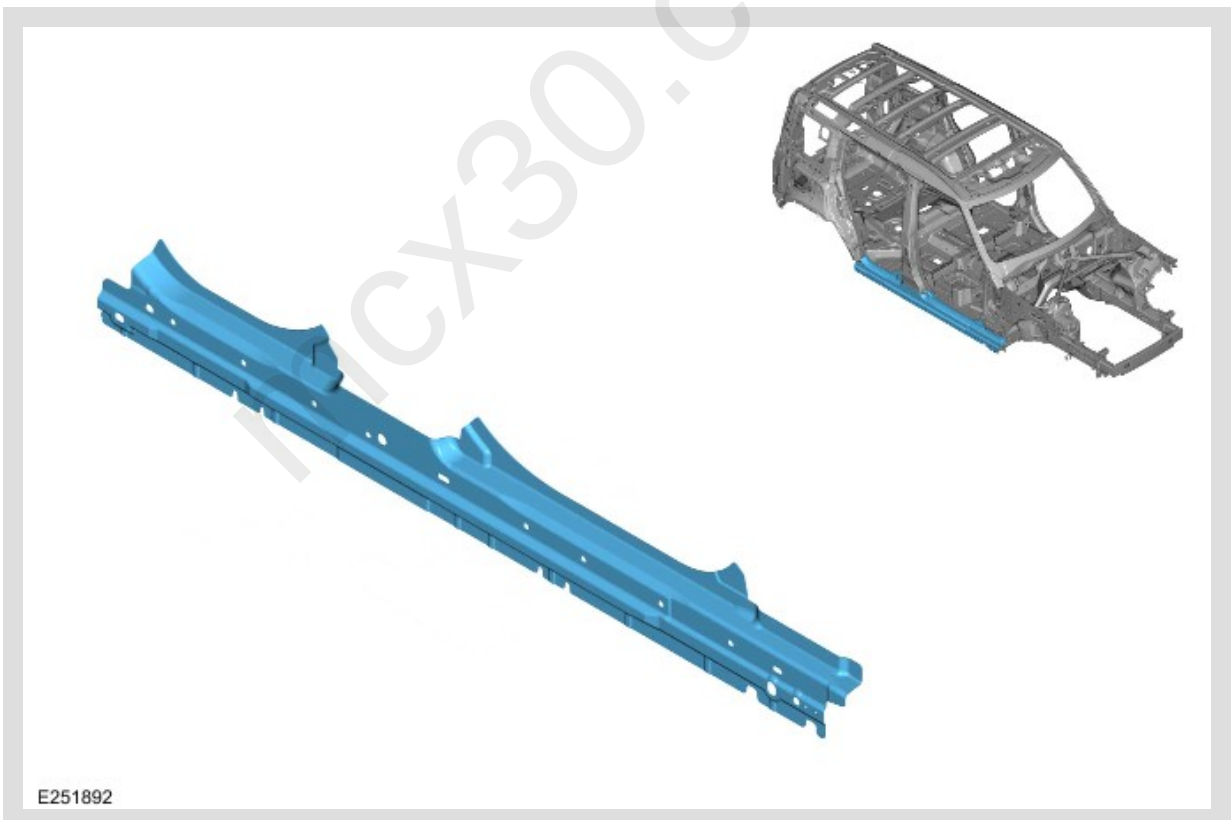
REMOVAL

 NOTE:

In this procedure the rocker panel reinforcement is installed in conjunction with:

- Side panel
- A-pillar outer
- Rocker panel
- A-pillar reinforcement.

1.



The rocker panel reinforcement 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).

3.



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 rocker panel reinforcement 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).

4.

For additional information on the fixings required to complete this procedure

Refer to: [Specifications - 110](#) (501-29 Side Panel Sheet Metal Repairs, Specifications).

5.

For additional removal information.

Refer to: [Side Panel - 110](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

6.

For additional removal information.

Refer to: [A-Pillar Outer Panel - 110](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

7.

For additional removal information.

Refer to: [Rocker Panel](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

8.

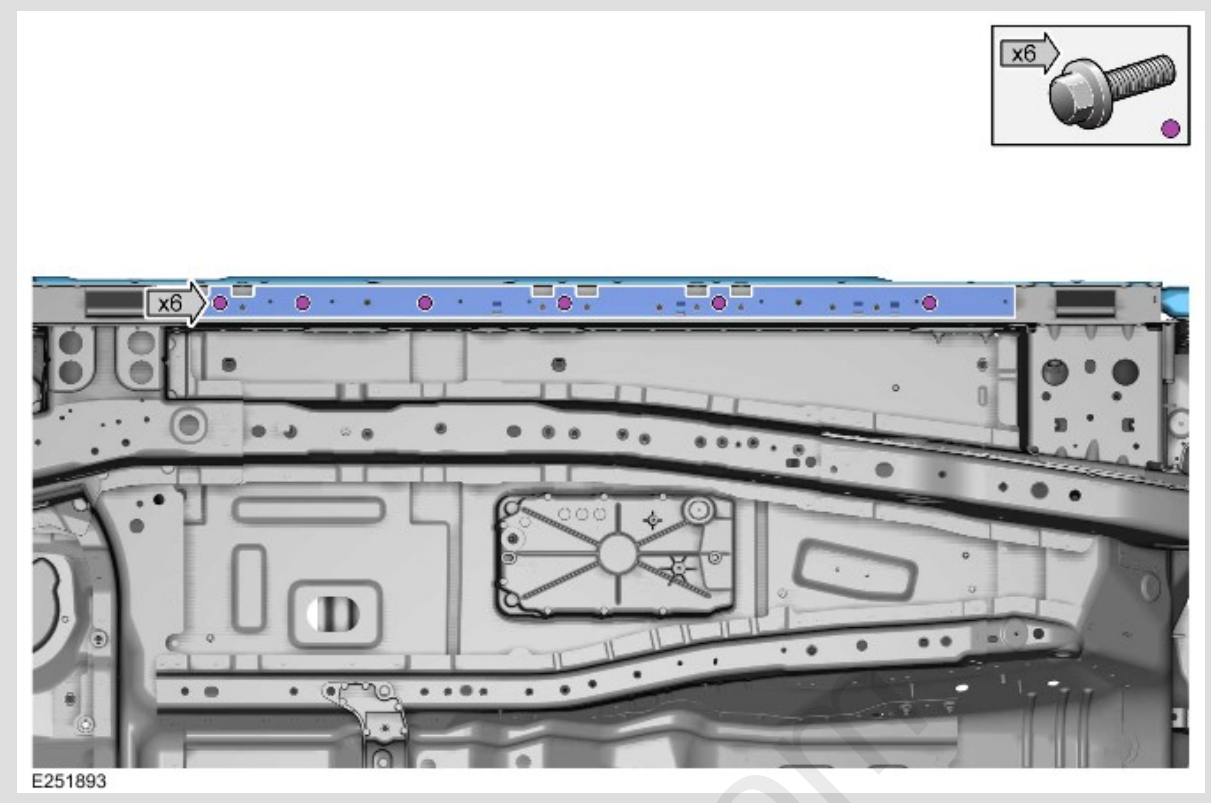
For additional removal information.

Refer to: [A-Pillar Reinforcement - 110](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

9.

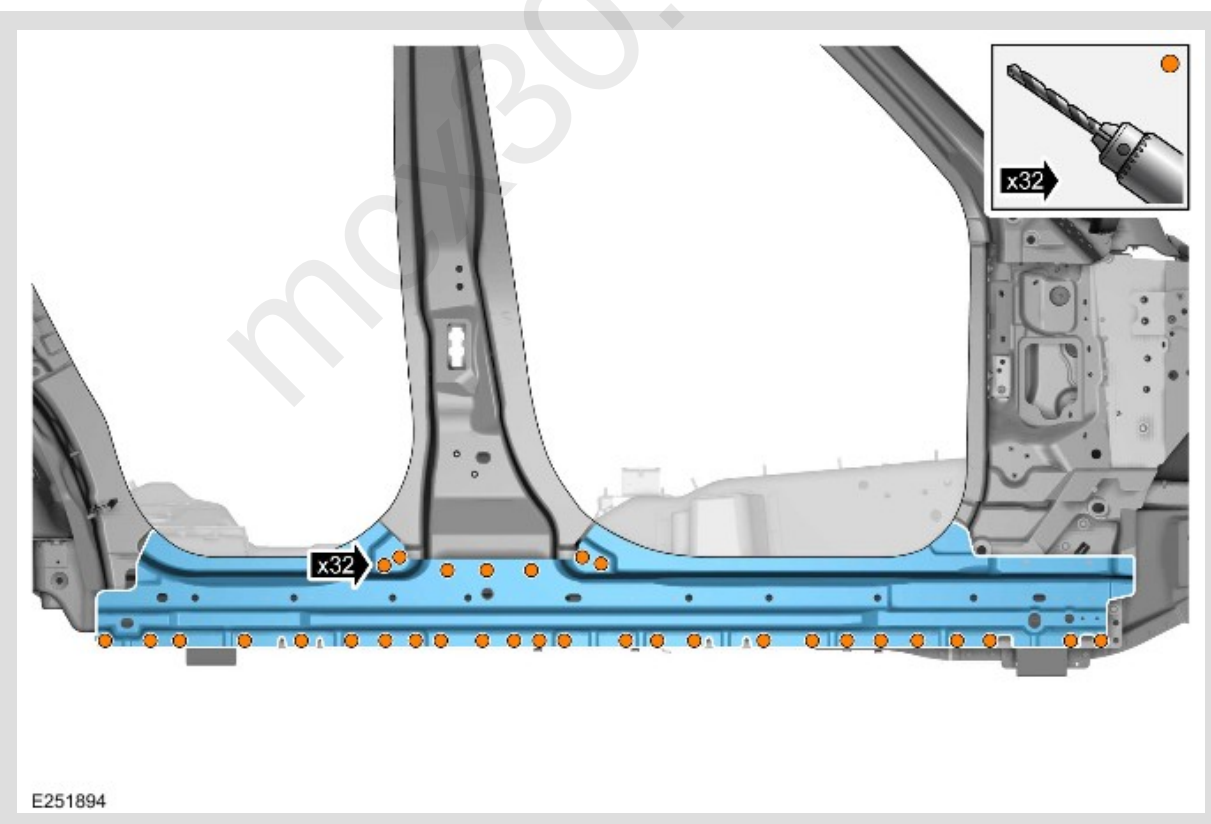
Release and position the wiring harness to one side.

10.



Remove the bolts and bracket as indicated.

11.

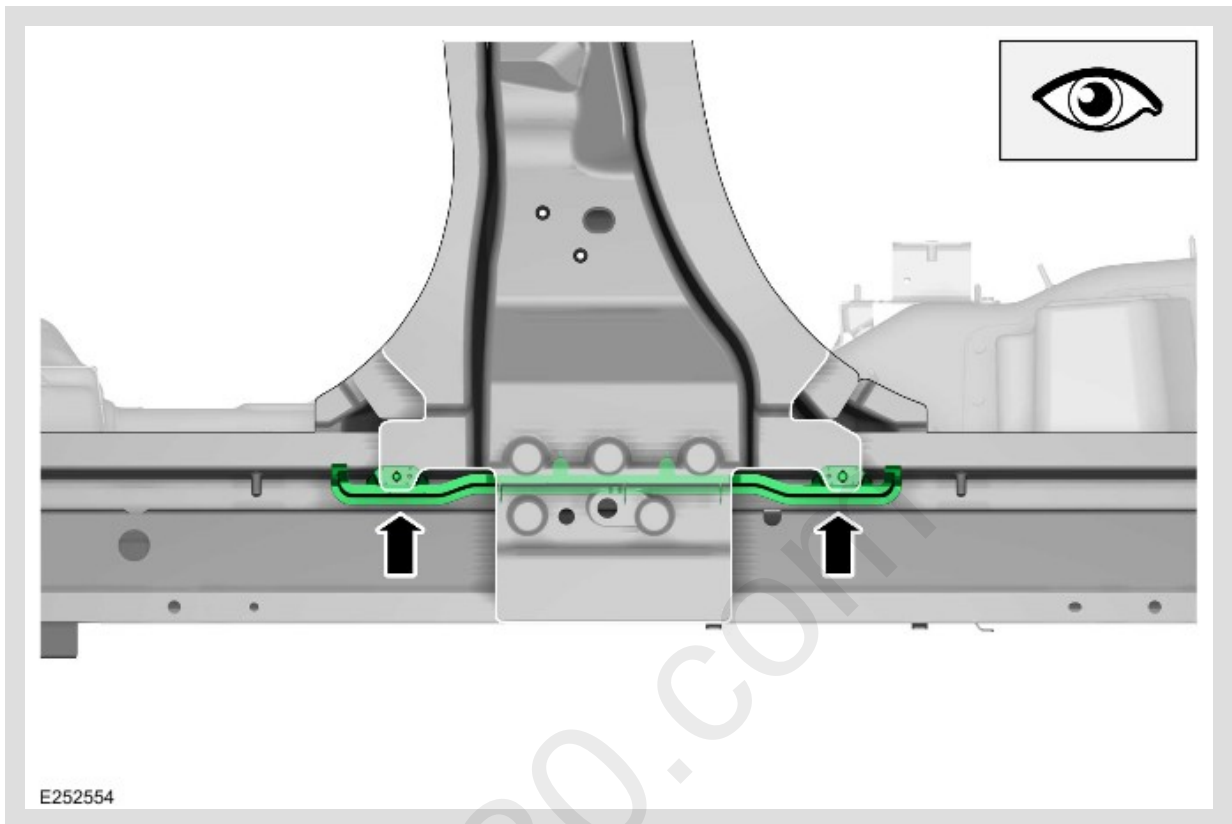


Remove the self piercing rivets as indicated.

12.

NOTE:

Avoid where possible damaging the Noise, Vibration and Harshness (NVH) material located behind the rocker panel reinforcement.



Carefully separate the joints and remove the rocker panel reinforcement.

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:

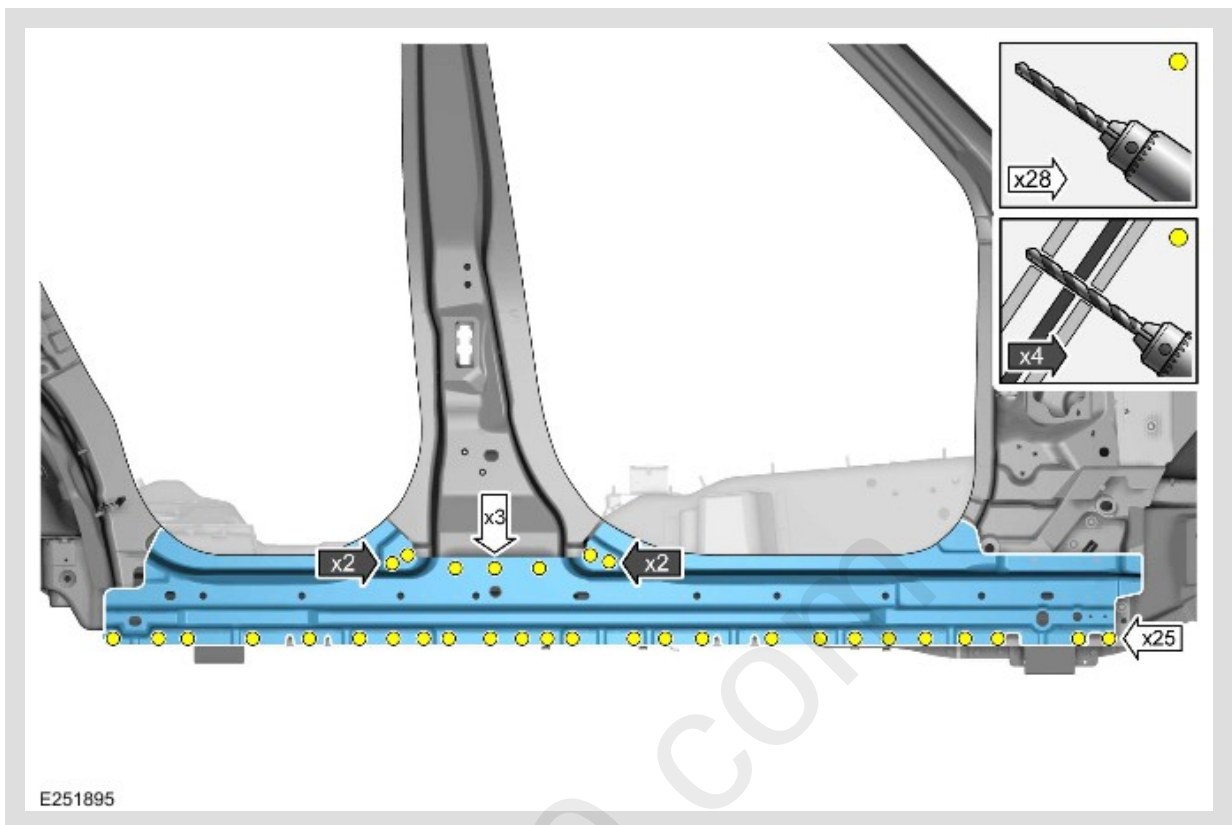
Breakstem Fastener (BSF) installation involves using the JLR approved BSF installation tool and requires a hole diameter of 6.5 mm.

1. Remove the rivet remnants.

2. Dress the flanges where necessary.

3. Offer up the new rocker panel reinforcement and clamp into position. Check alignment, if correct proceed to next step, if not rectify and check the alignment again before proceeding.

4.



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

5. Remove the new rocker panel reinforcement.

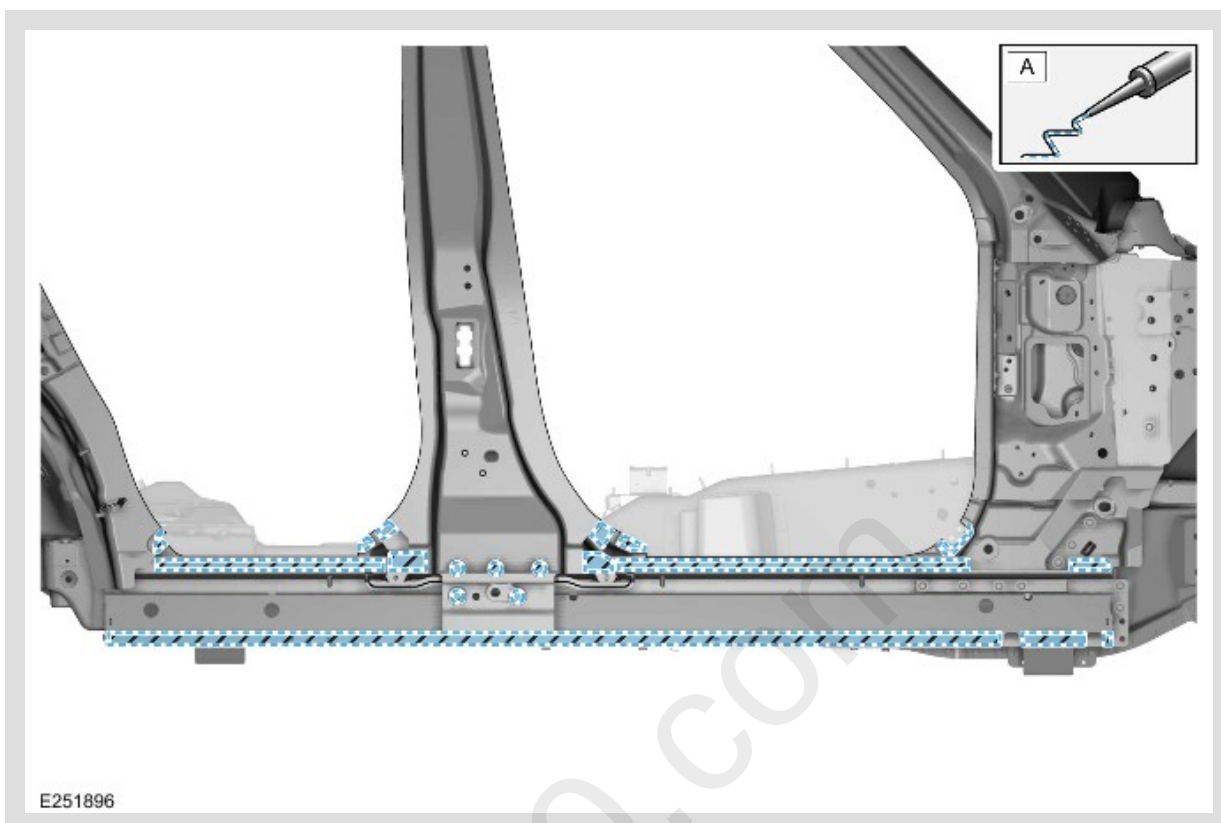
6. Deburr the drilled holes.

7. Clean and prepare the panel surfaces.

8.

 NOTE:

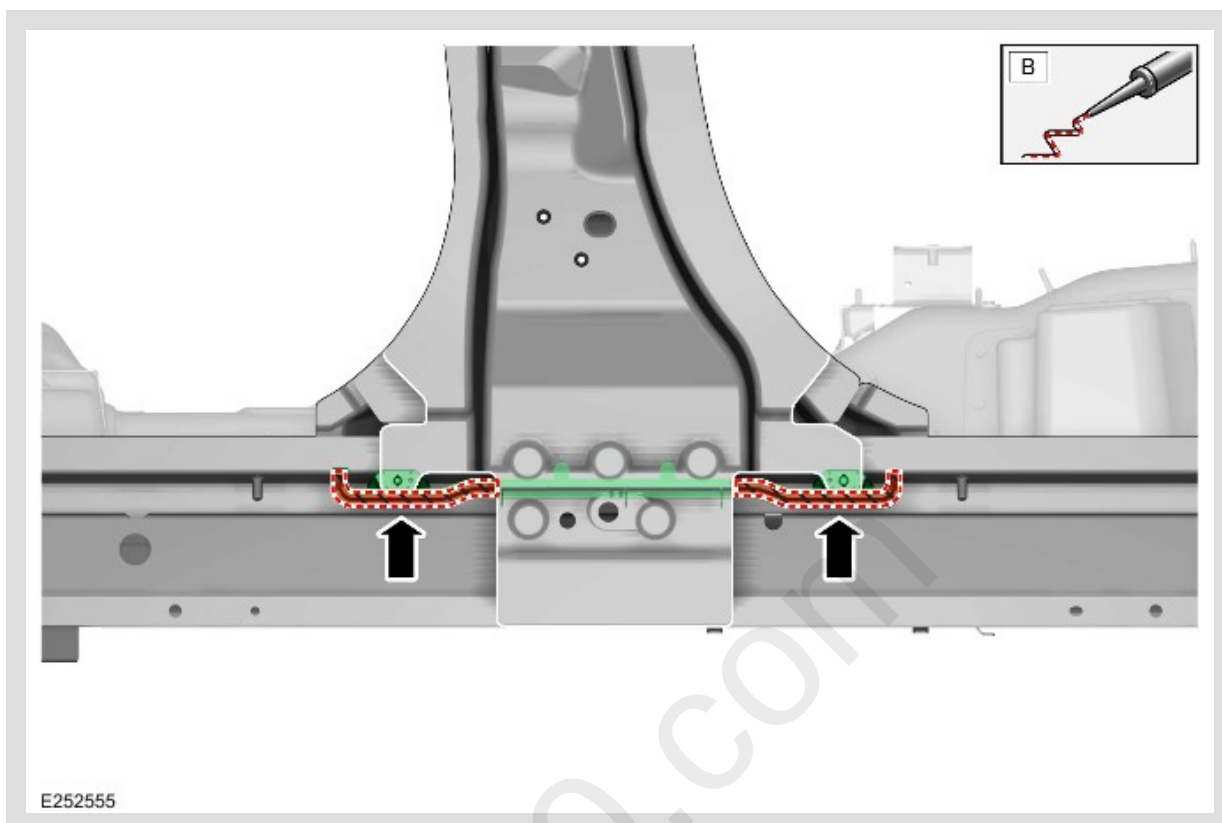
Make sure a continuous bead of adhesive surrounds the fixing holes.



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

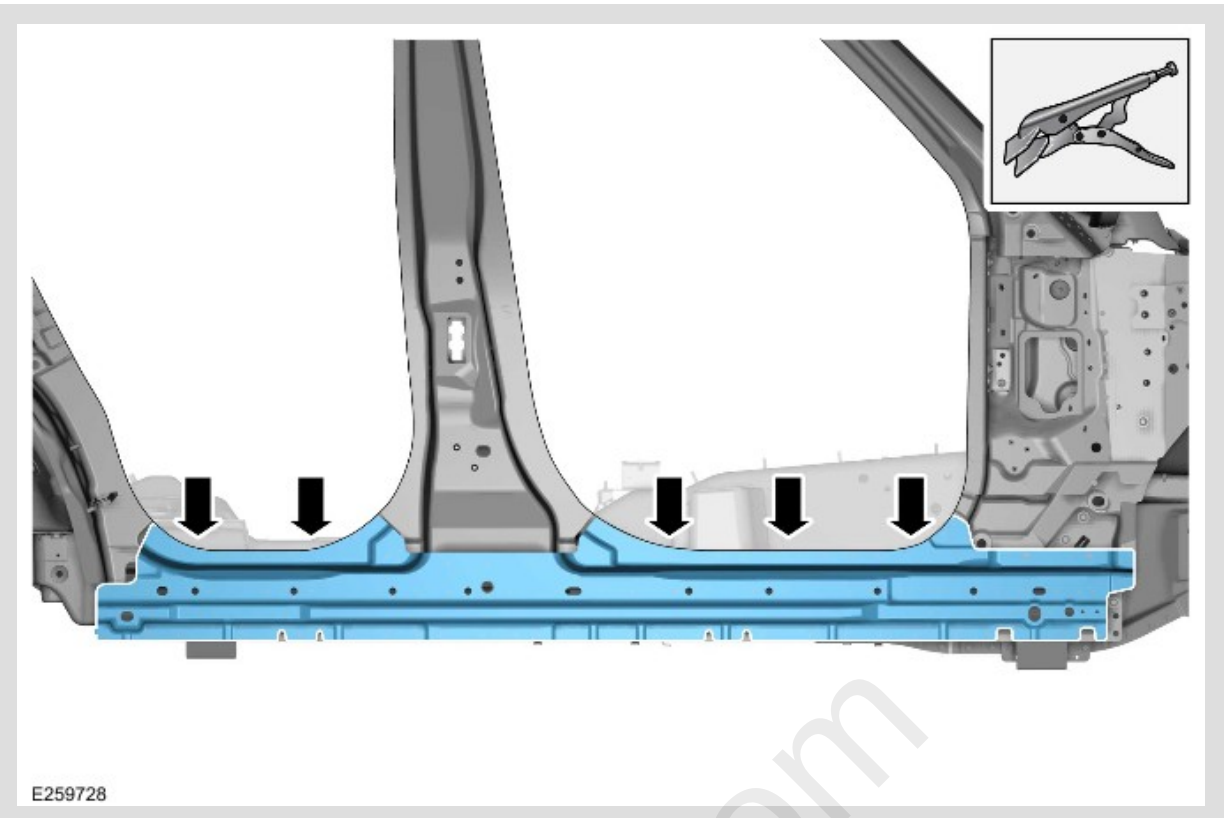
 NOTE:

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



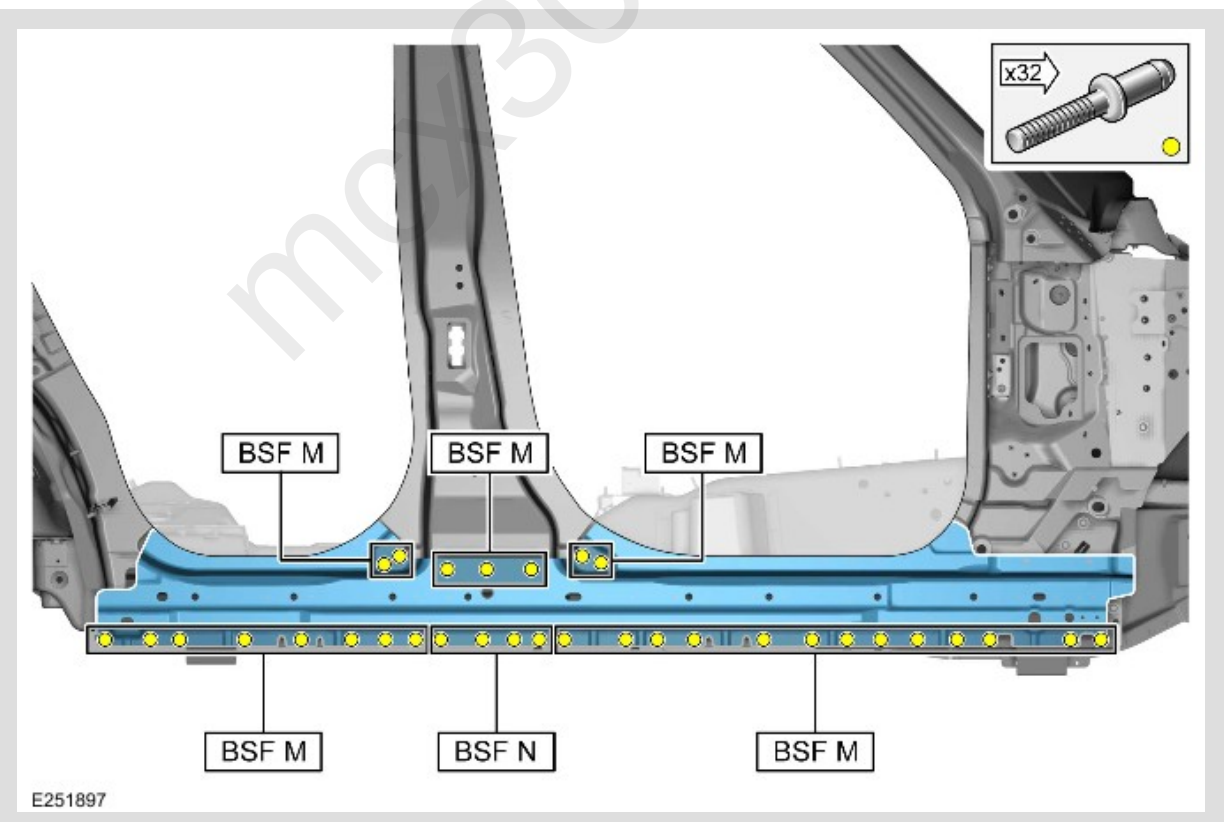
Apply a 5 mm zig zag bead of the JLR recommended sealing material as indicated.

10.



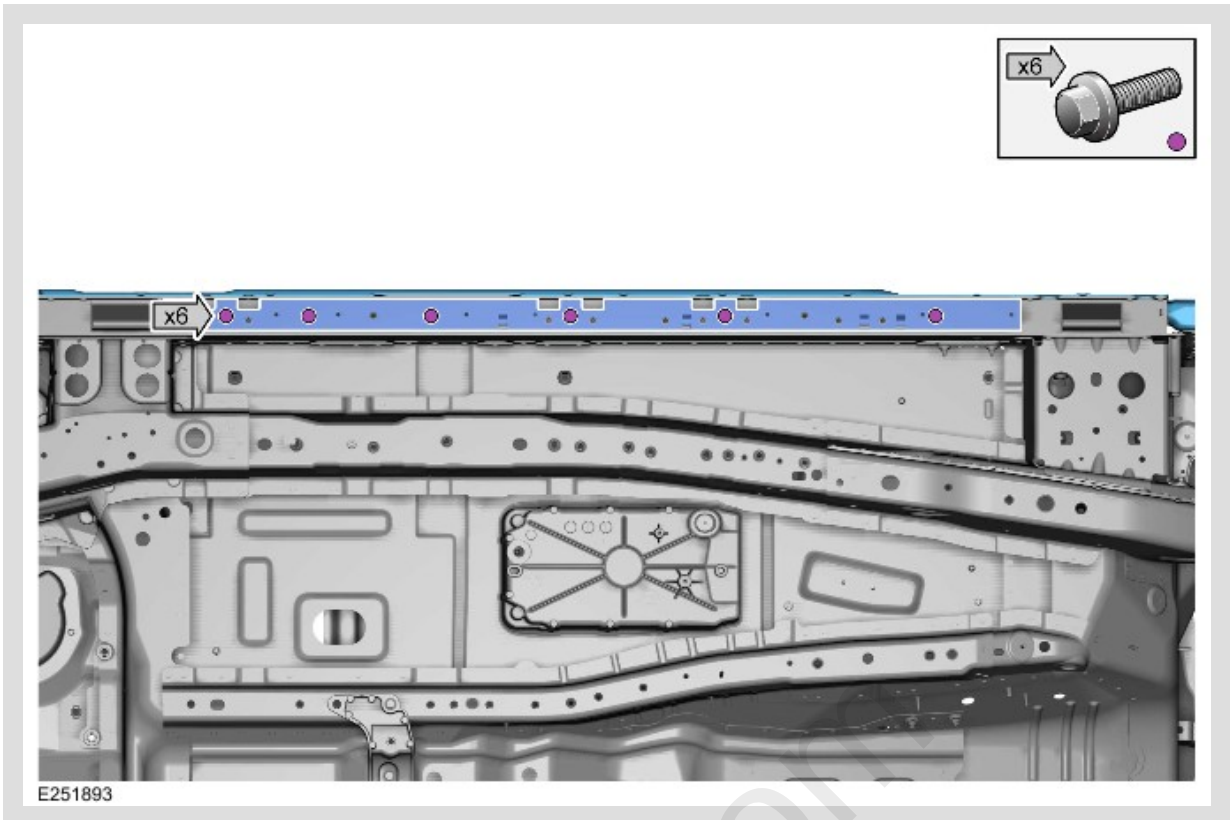
Offer up the new rocker panel reinforcement and clamp into position as indicated. Check alignment, if correct proceed to next step, if not rectify and check the alignment again before proceeding.

11.



Install the BSFs as indicated.

12.



Install the bracket and tighten the bolts.

Torque: 25 Nm

13. Remove any excess adhesive.

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

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

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



NOTE:

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

17. For additional installation information.

Refer to: [A-Pillar Reinforcement - 110](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

18. For additional installation information.

Refer to: [Rocker Panel](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

19. For additional installation information.

Refer to: [A-Pillar Outer Panel - 110](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

20. For additional installation information.

Refer to: [Side Panel - 110](#) (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).

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