

Roof Panel - SuperCab, Vehicles With: Roof Opening Panel

Special Tool(s) / General Equipment

Scraper for Straight Edges
Spherical Cutter
Grinder
Self-Piercing Rivet (SPR) Remover/Installer
Belt Sander
Blind Rivet Gun
Hot Air Gun
Knife
Air Body Saw
Locking Pliers

Materials

Name	Specification
Metal Bonding Adhesive TA-1, TA-1-B, 3M™ 08115, LORD Fusor® 108B	-
Roof Ditch Sealer 3M™ 08307, LORD Fusor® 122EZ	-

Removal

NOTICE: Adequately protect all glass, exterior finish and interior trim from contamination during entire repair procedure.

NOTE: Aluminum body panels are highly receptive to heat transfer. With the extensive use of structural adhesives and non-structural sealers used in vehicle construction, the potential of heat transfer could impact adhesives and sealers in non-associated panels during the repair process. Many repairs areas that utilize structural adhesive may be separated after fastener removal by using a panel chisel along the joint/flange. Using heat not exceeding 425° F to loosen a bonded panel should only be done when all panels in the joint will be replaced and new adhesive applied.

1. Depower the SRS.

Refer to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).

2. Remove the headliner.

Refer to: [Headliner - SuperCab](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

3. Remove the windshield and rear window glass.

Refer to: [Fixed Glass](#) (501-11 Glass, Frames and Mechanisms, General Procedures).

4. .

Remove the satellite radio antenna

Refer to: [Satellite Radio Antenna](#) (415-00B Information and Entertainment System - General Information - Vehicles With: SYNC Without Touchscreen, Removal and Installation).

Refer to: [Satellite Radio Antenna](#) (415-00D Information and Entertainment System - General Information - Vehicles With: Bang and Olufsen Audio System, Removal and Installation).

5. Remove the CHMSL (center high mount stop lamp).

Refer to: [High Mounted Stoplamp](#) (417-01 Exterior Lighting, Removal and Installation).

6. Remove the roof moulding (both sides).

Refer to: [Roof Moulding](#) (501-08 Exterior Trim and Ornamentation, Removal and Installation).

7. Remove the roof opening panel and frame.

Refer to: [Roof Opening Panel Frame](#) (501-17A Roof Opening Panel, Removal and Installation).

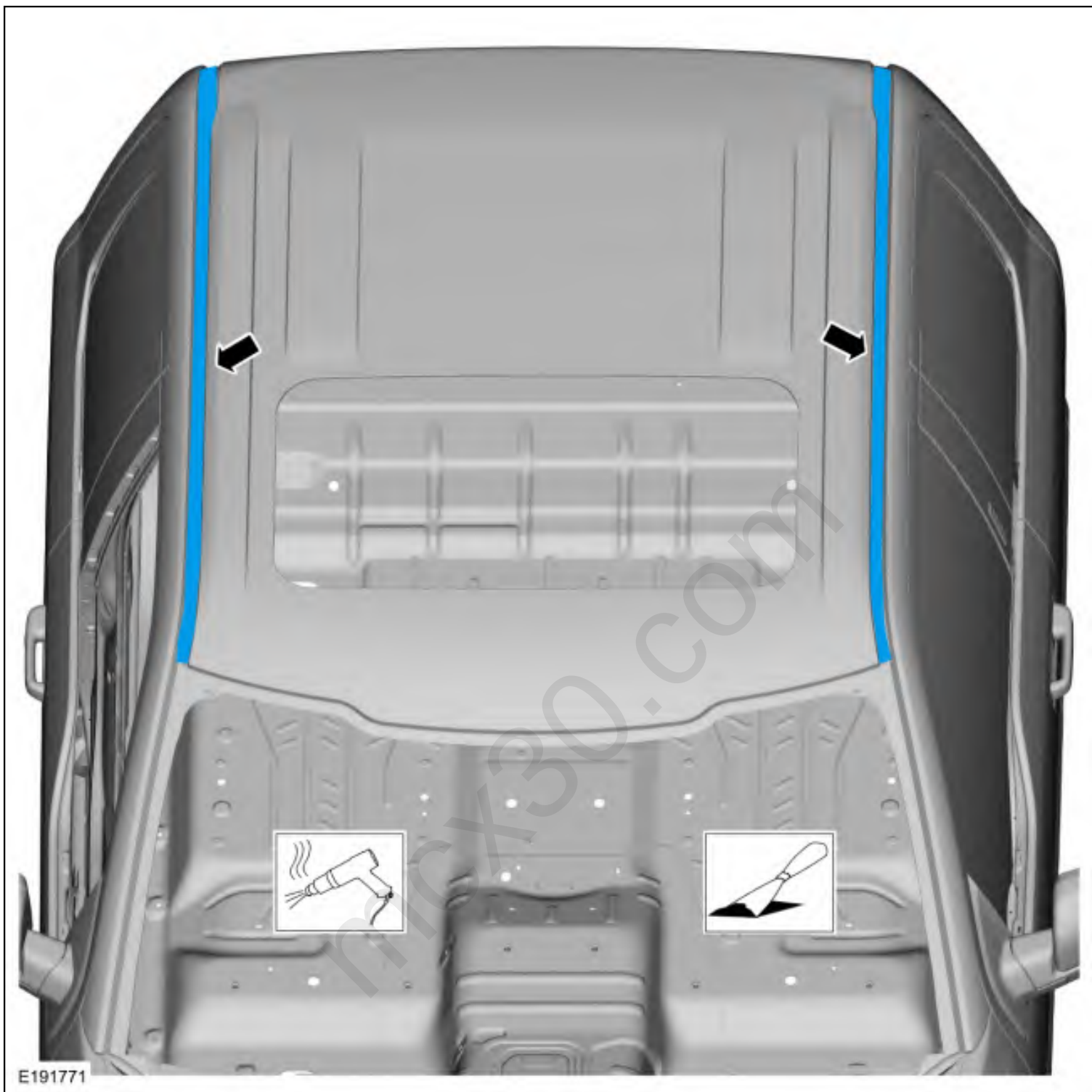
8. Remove the side curtain air bag (both sides).

Refer to: [Side Curtain Airbag - SuperCab](#) (501-20B Supplemental Restraint System, Removal and Installation).

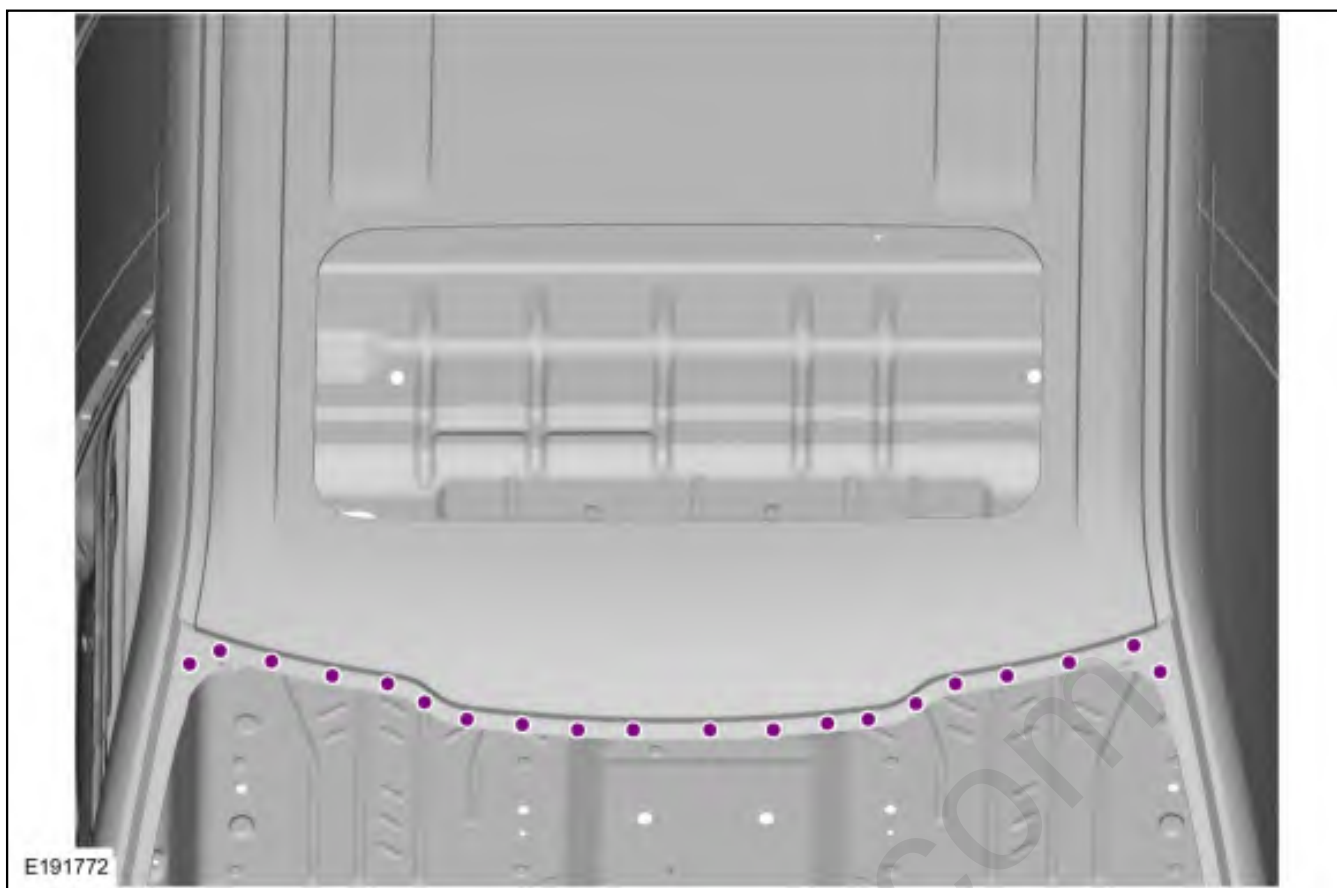
9. Remove the roof ditch sealer.

Use the General Equipment: Hot Air Gun

Use the General Equipment: Scraper for Straight Edges



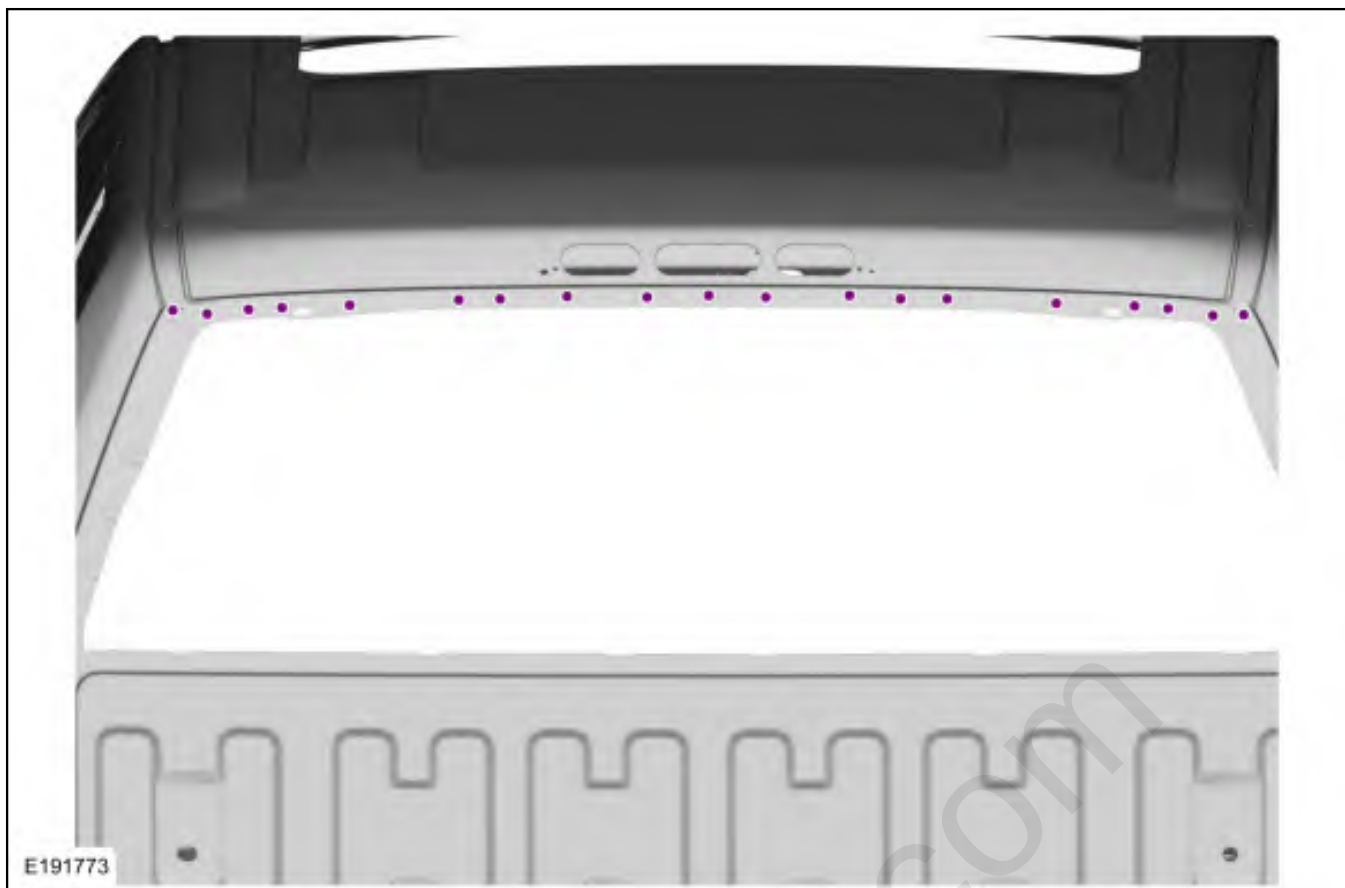
10. Remove the front header SPR fasteners.
Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer
Use the General Equipment: Belt Sander



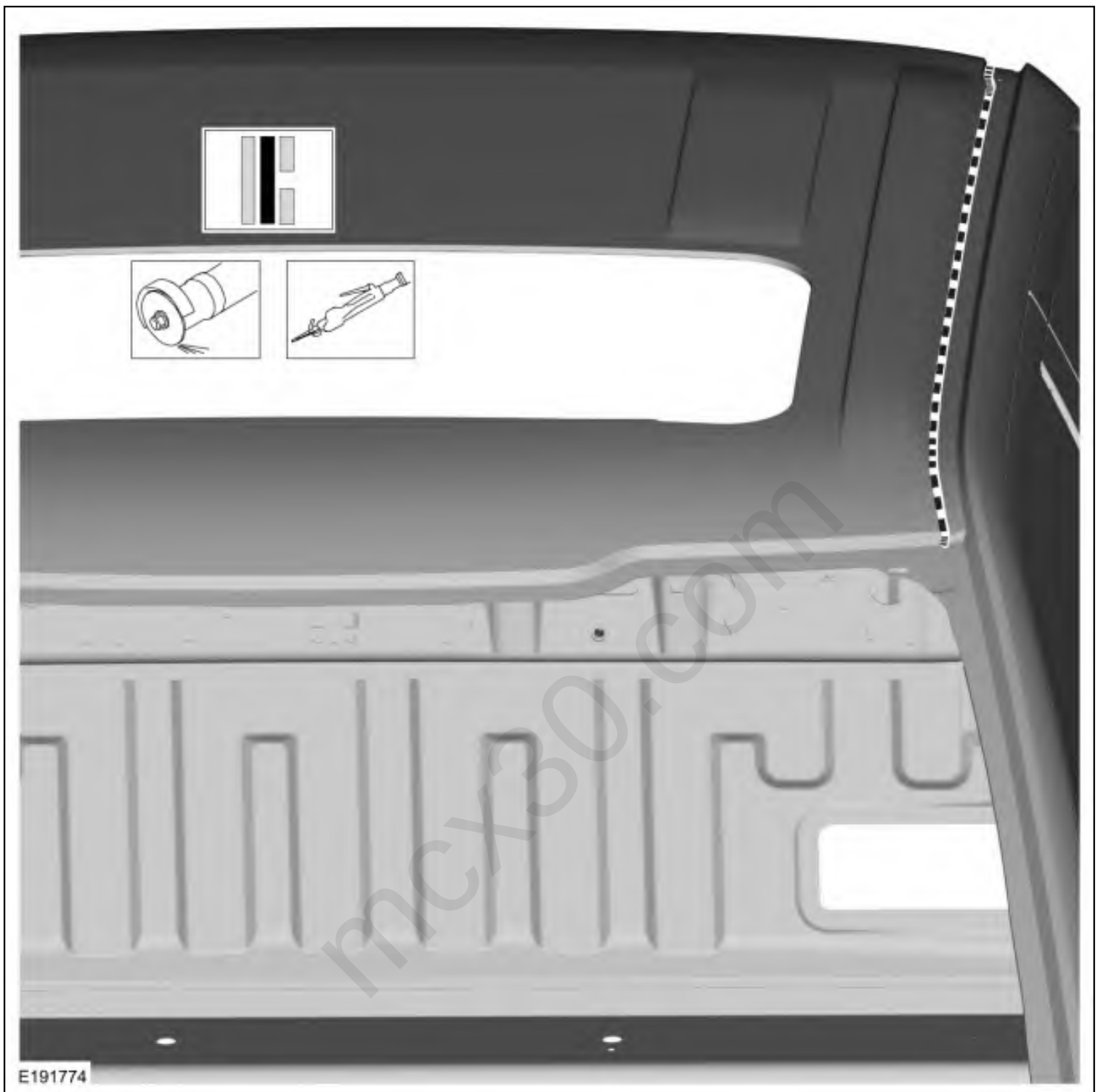
11. Remove the rear header SPR fasteners.

Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer

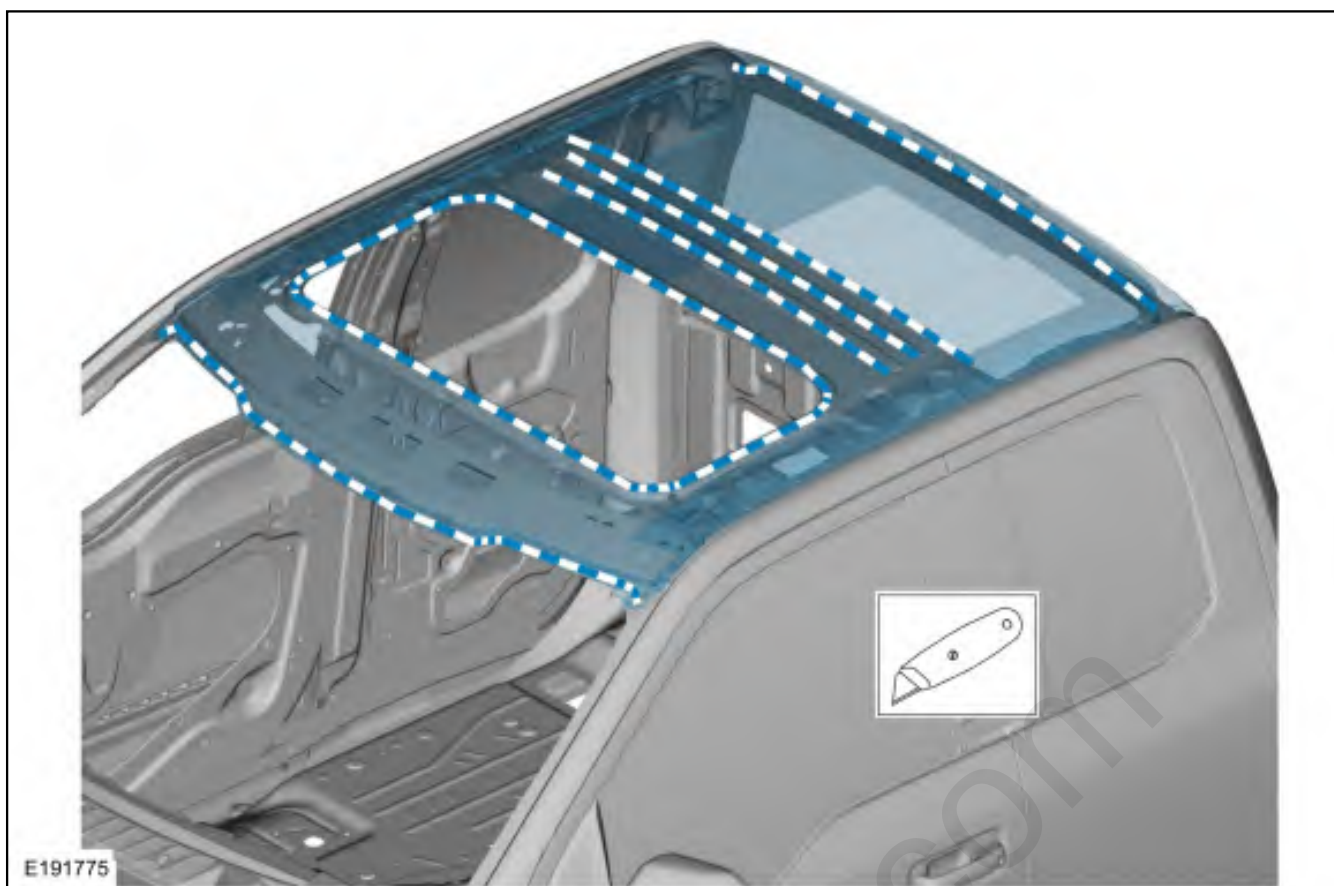
Use the General Equipment: Belt Sander



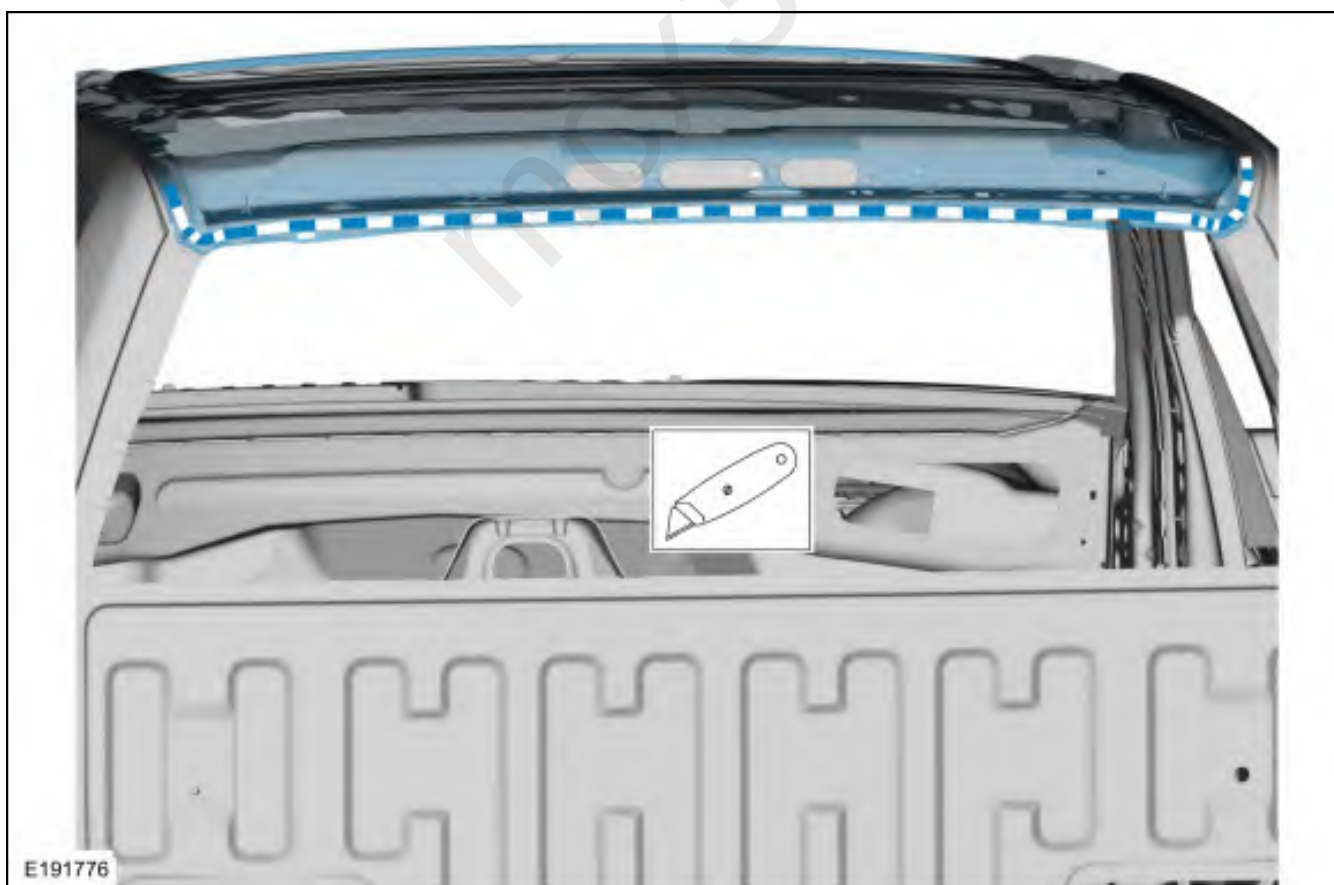
12. Carefully cut the roof **outer panel only** in the area shown (inboard on the roof ditch, both sides).
Use the General Equipment: Air Body Saw
Use the General Equipment: Spherical Cutter



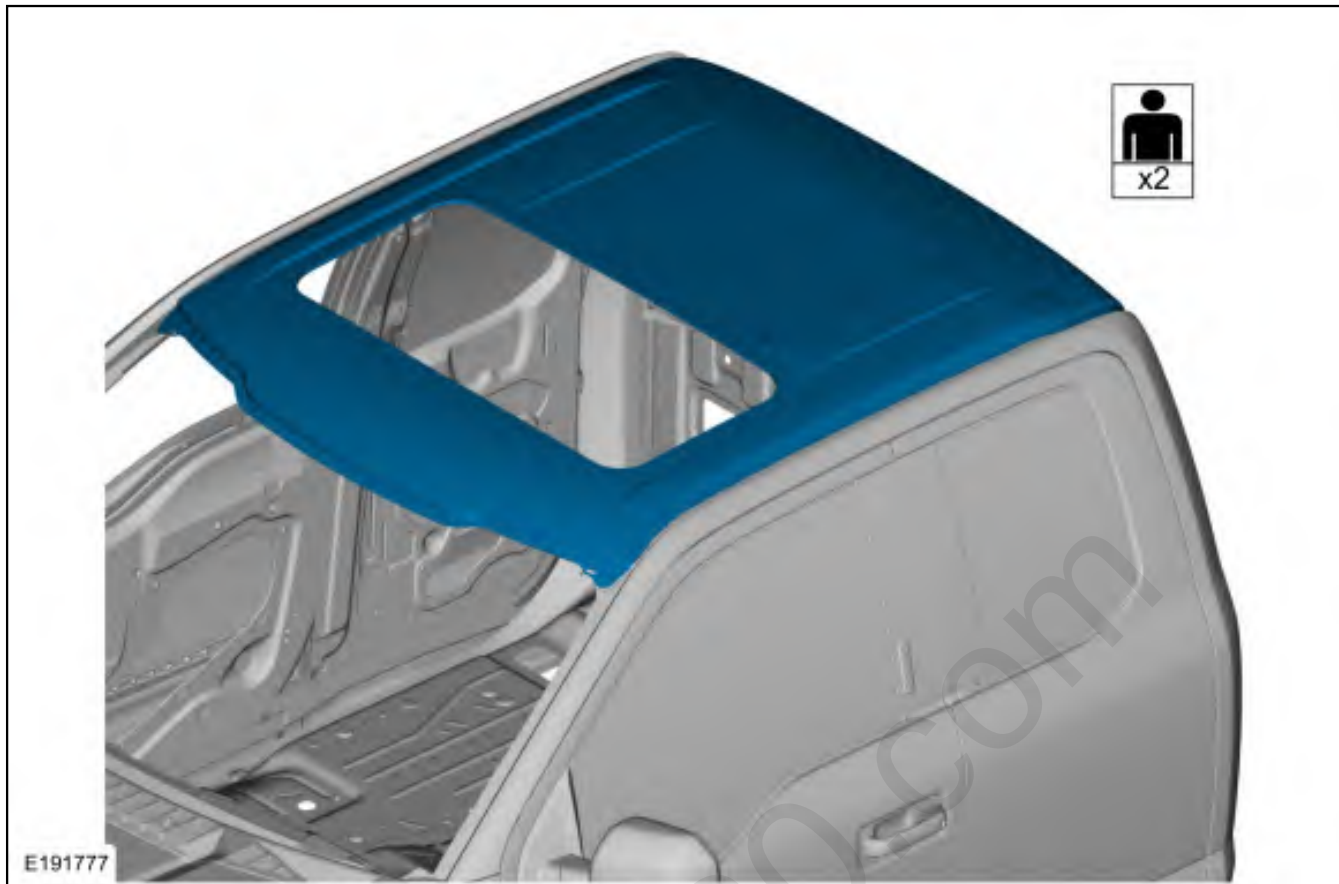
13. Separate the foam and adhesive between the body and roof panel leaving as much foam intact as possible on the roof supports.
Use the General Equipment: Knife



14. Cut the adhesive between the roof panel and the rear header.
Use the General Equipment: Knife

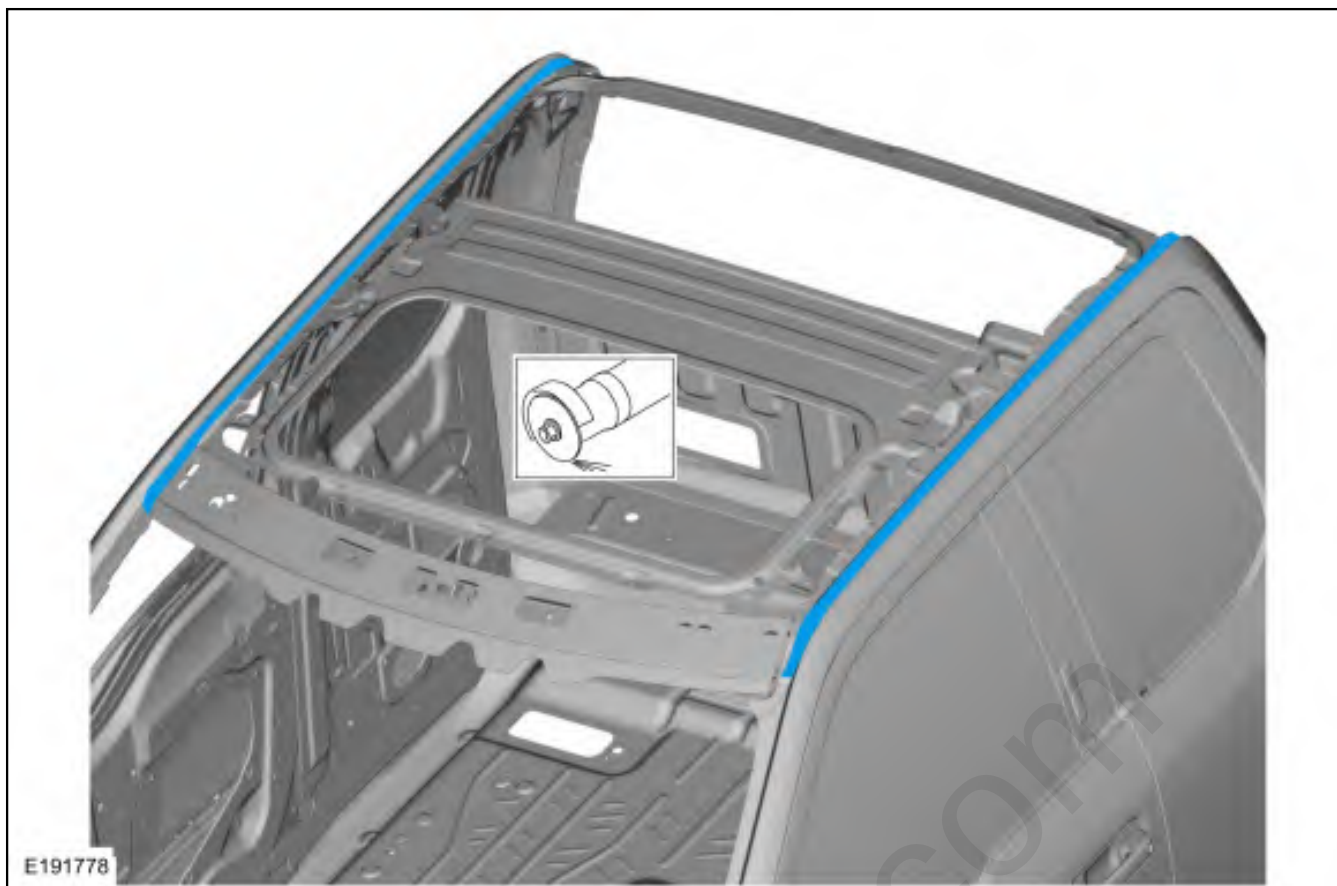


15. With the help of an assistant, remove the roof panel.



16. **NOTE:** Carefully grind the area smooth removing remaining portions of the factory laser weld. use caution to avoid thinning of the metal.

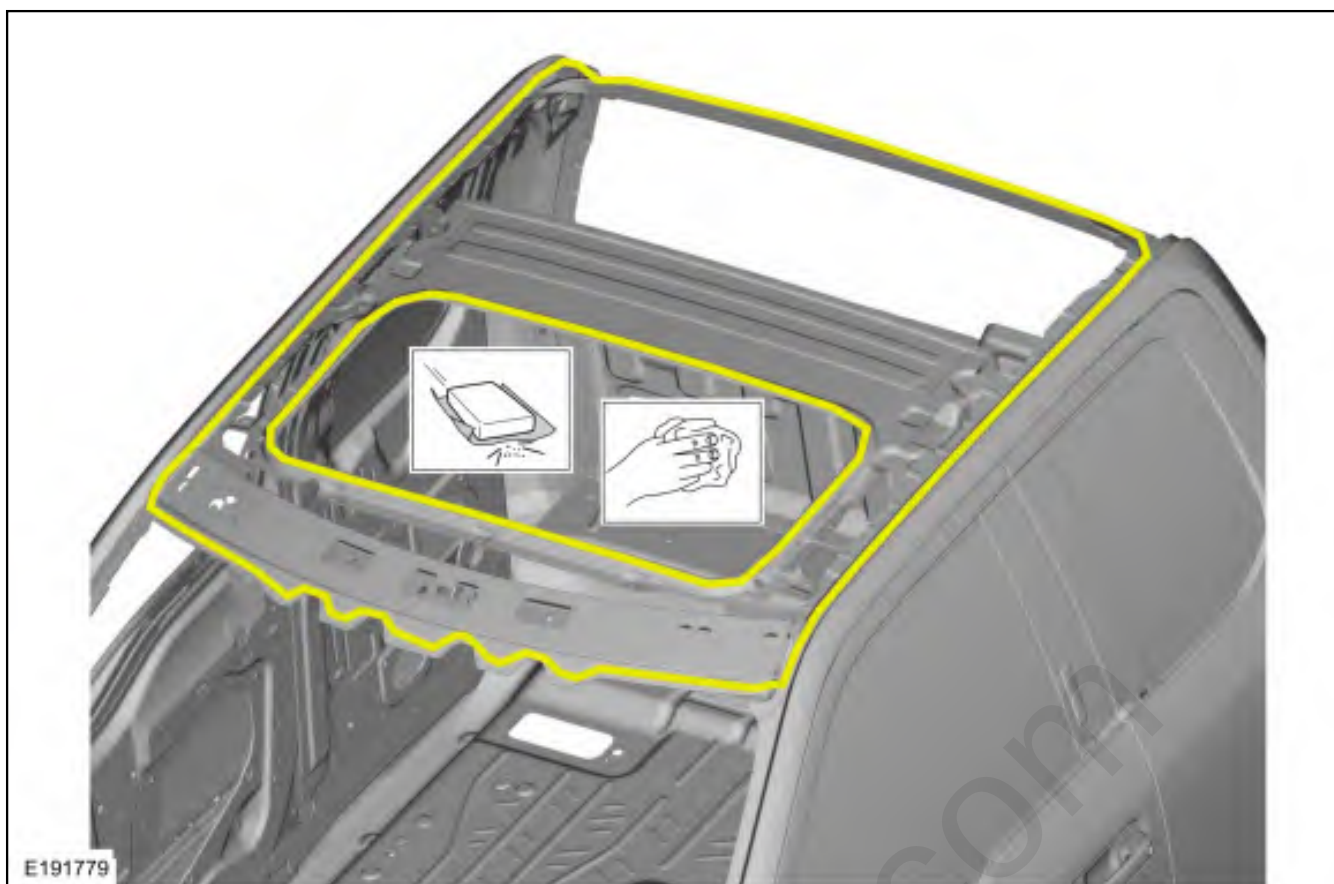
Using a grinder or air chisel, carefully remove the remaining portion of the roof panel flange and laser weld bead.
Use the General Equipment: Grinder



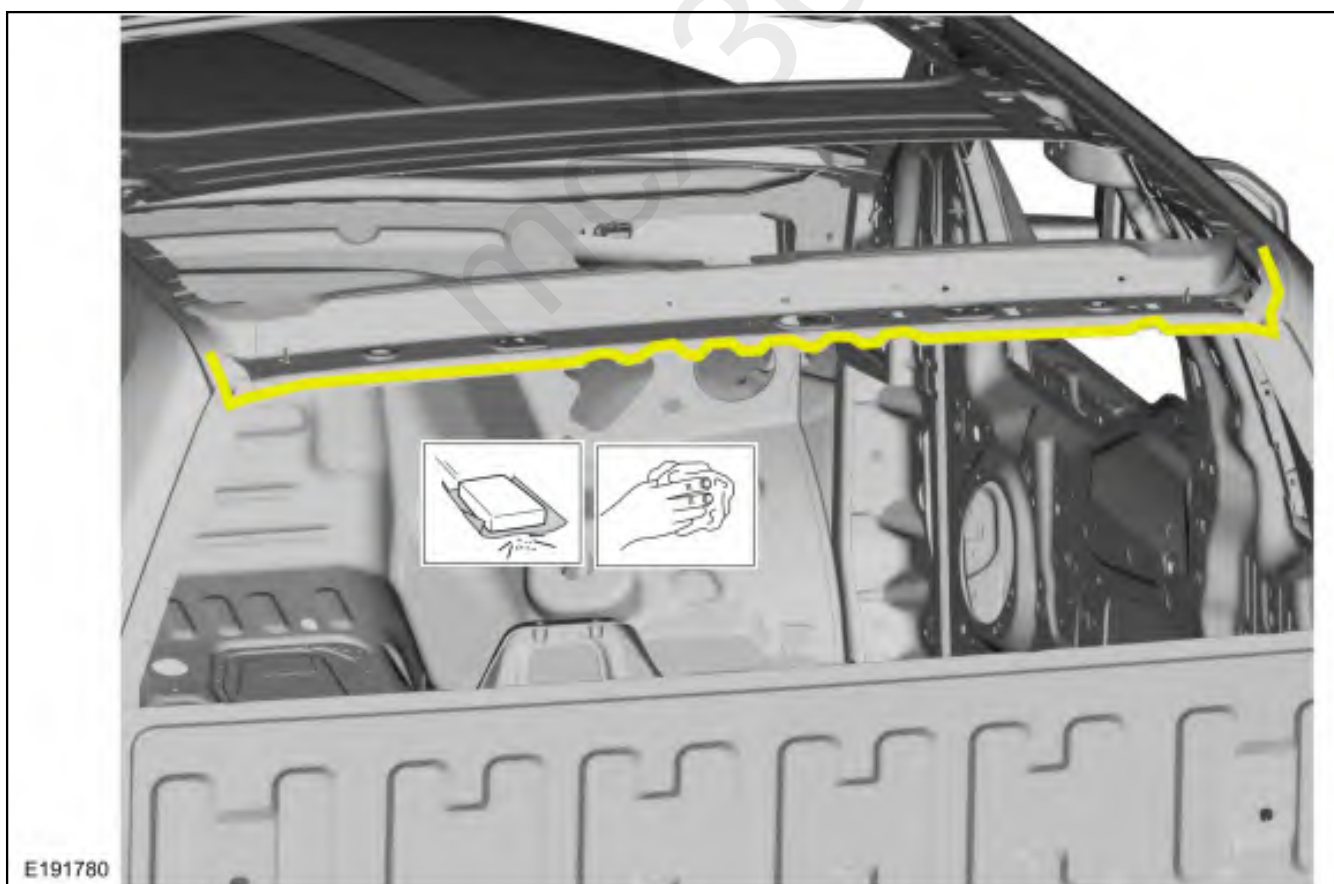
Installation

NOTICE: Adequately protect all glass, exterior finish and interior trim from contamination during entire repair procedure.

1. Use a hammer and dolly dedicated to aluminum repair to repair any damage to the body side flange to roof mating surfaces.
Refer to: [Special Repair Considerations for Aluminum Repairs](#) (501-25 Body Repairs - General Information, Description and Operation).
2. Sand and clean the body to roof mating surfaces.



3. Sand to remove any remaining adhesive in the rear flange and clean.



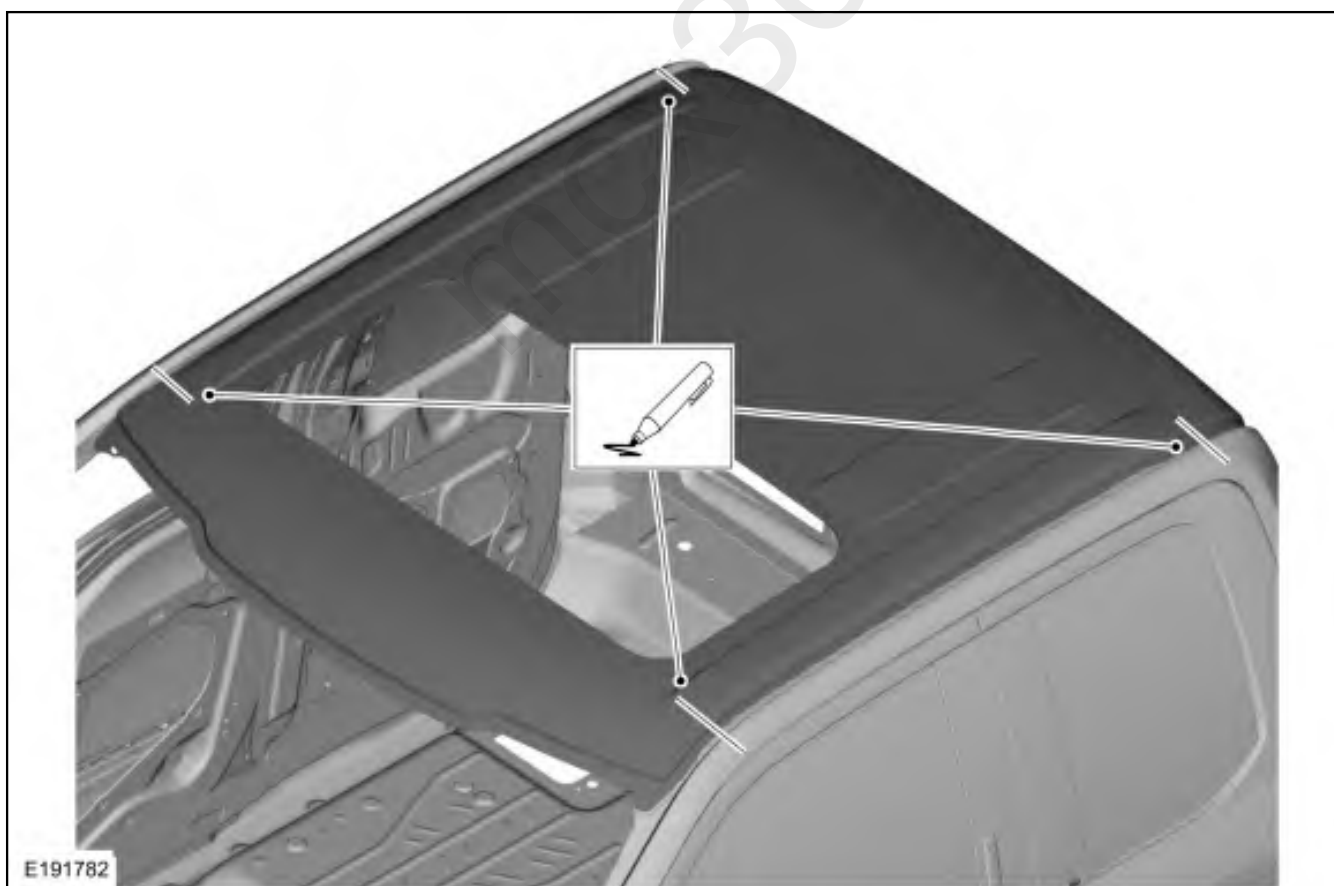
4. Sand to remove the e-coat and clean the roof panel mating surface using 80 grit sandpaper.



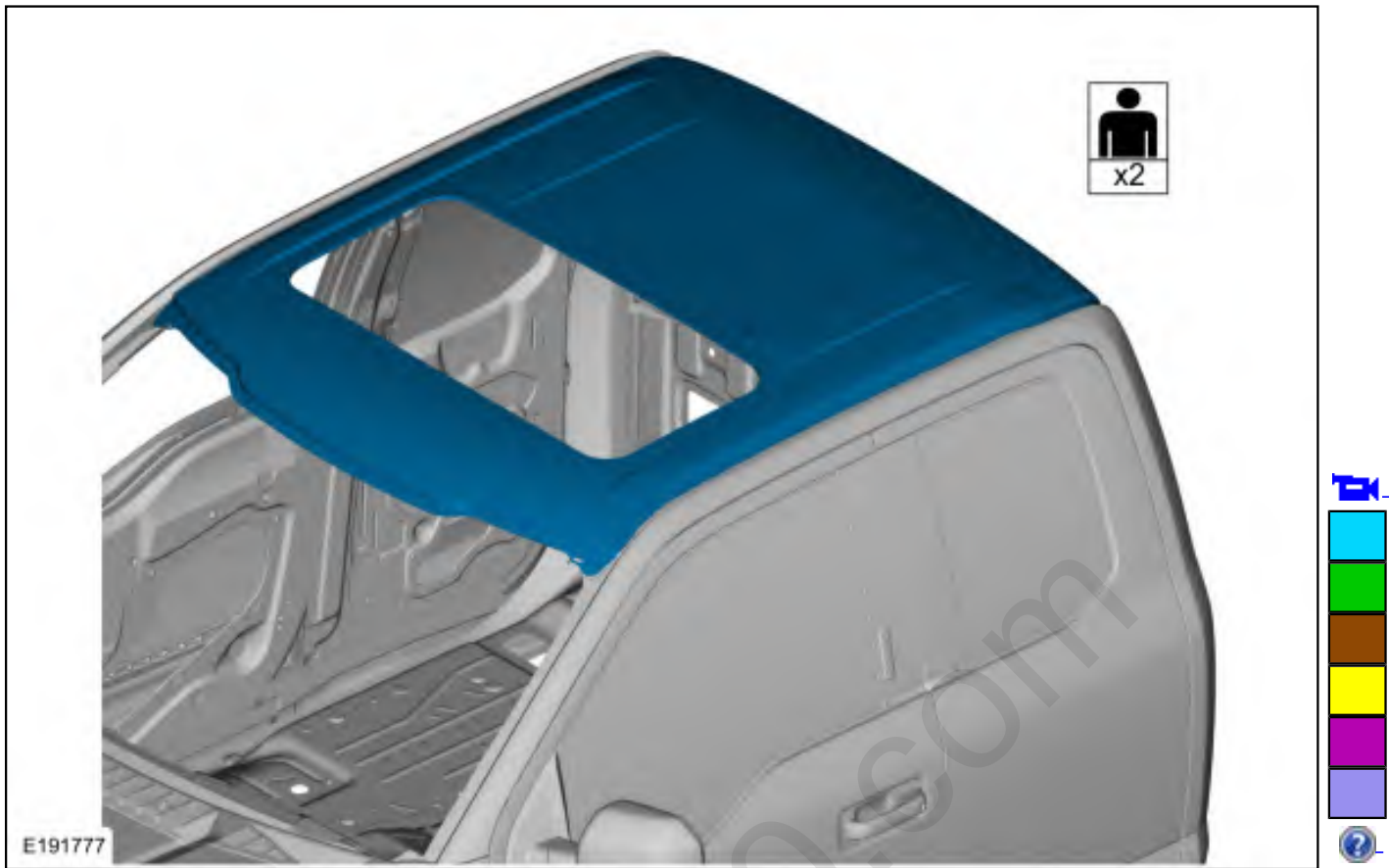
5. With the help of an assistant, install the roof outer panel.



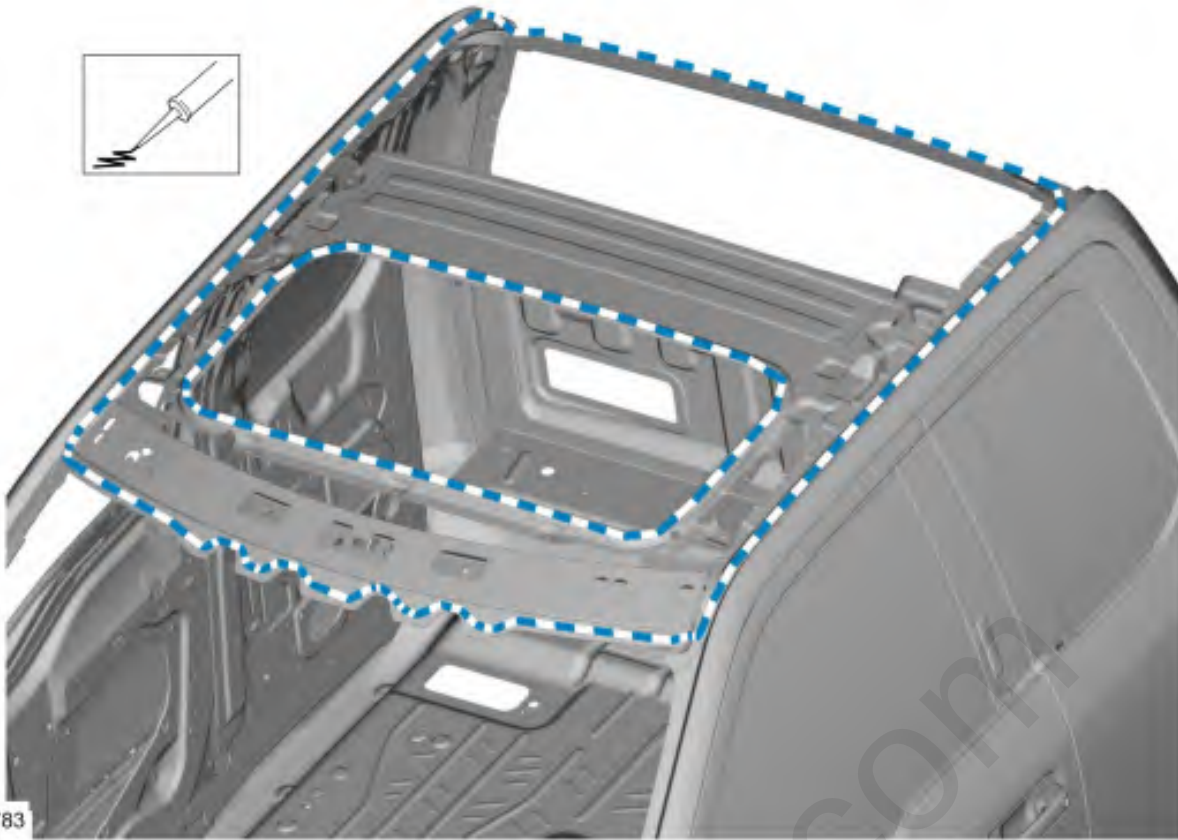
6. Properly align and index mark the roof panel to the vehicle.



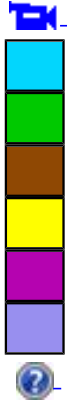
7. With the help of an assistant, remove the roof outer panel.



8. Apply adhesive to the roof opening reinforcement, front header and roof ditch area mating surfaces.
Material: Metal Bonding Adhesive / TA-1, TA-1-B, 3M™ 08115, LORD Fusor® 108B

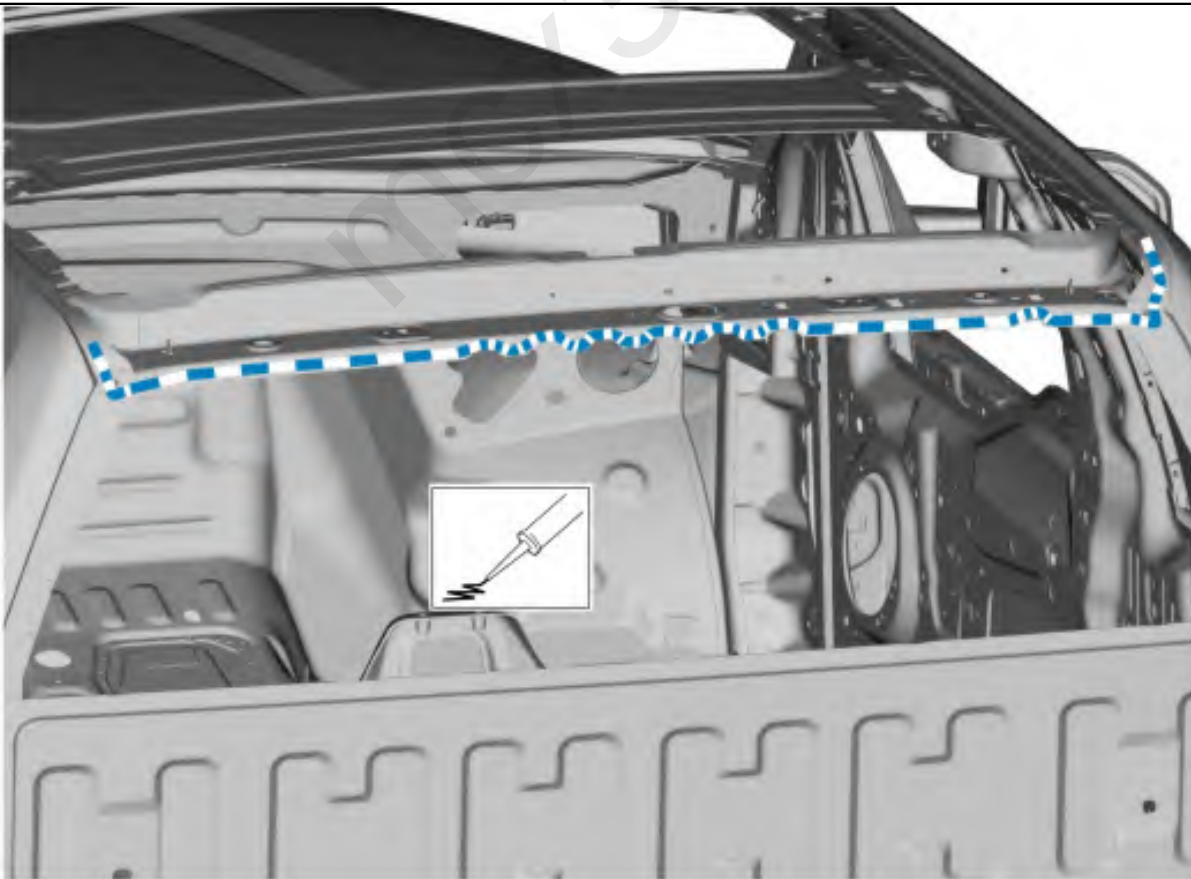


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9. Apply adhesive to the rear header mating surface.

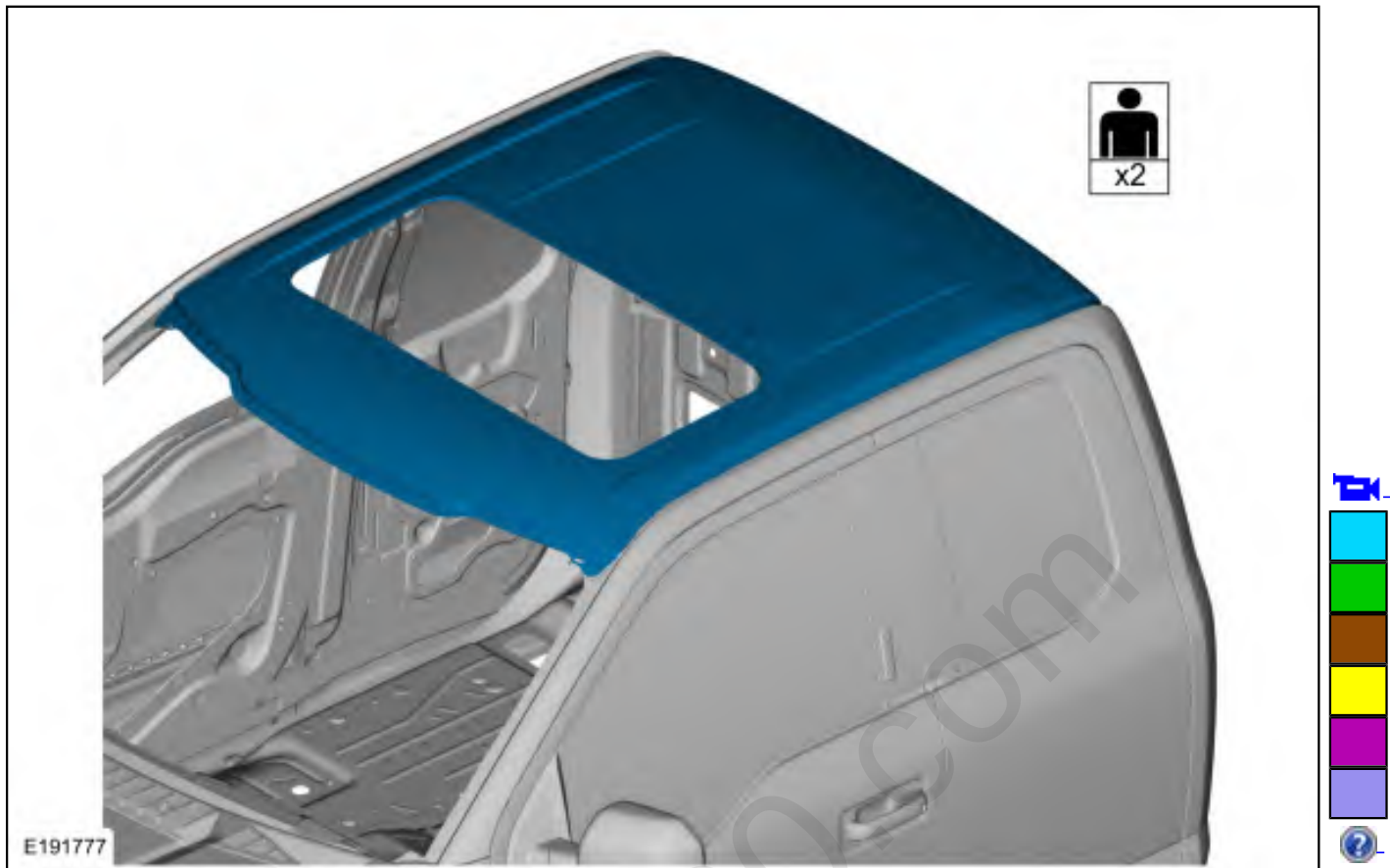
Material: Metal Bonding Adhesive / TA-1, TA-1-B, 3M™ 08115, LORD Fusor® 108B



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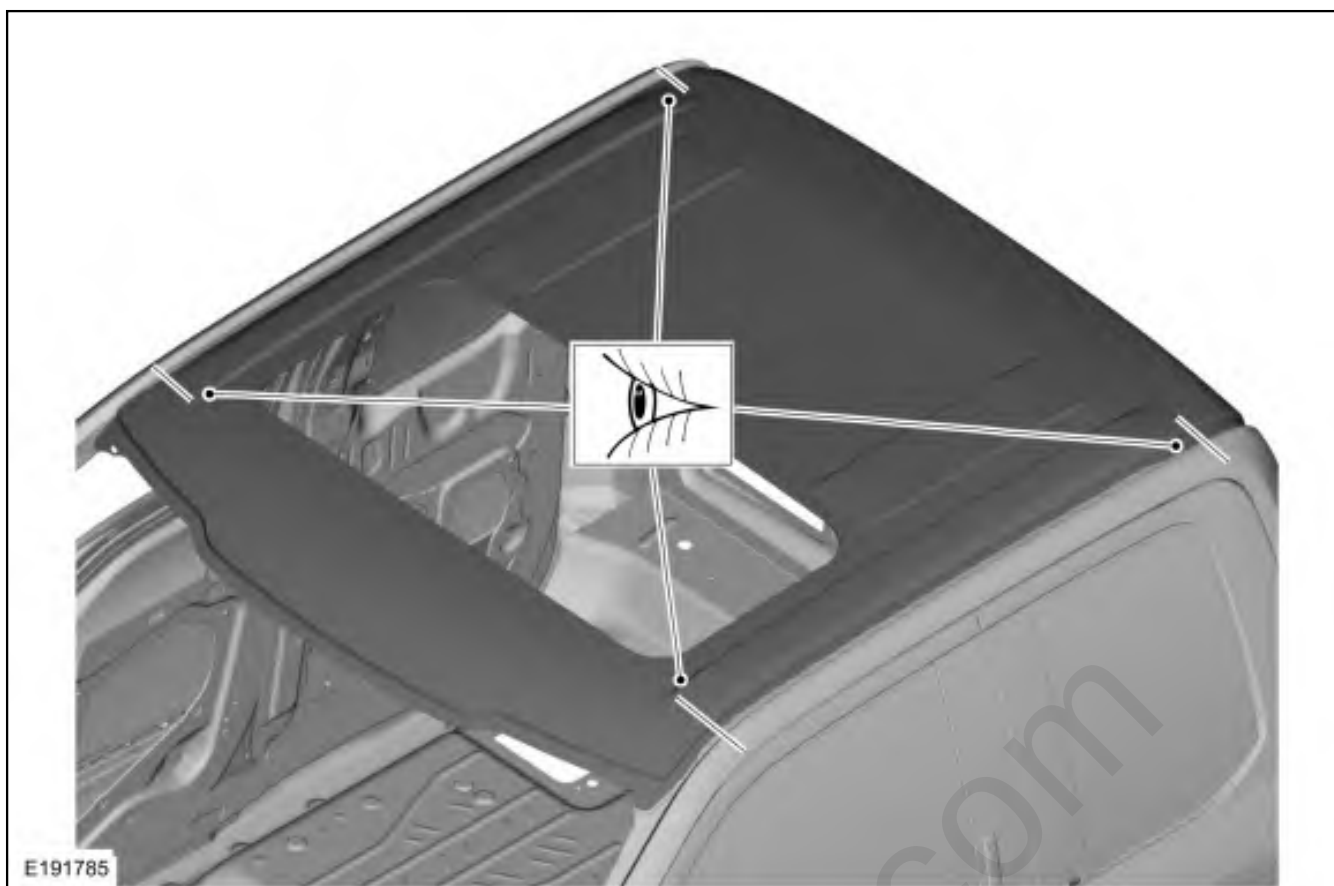
10. With the help of an assistant, install the roof outer panel.



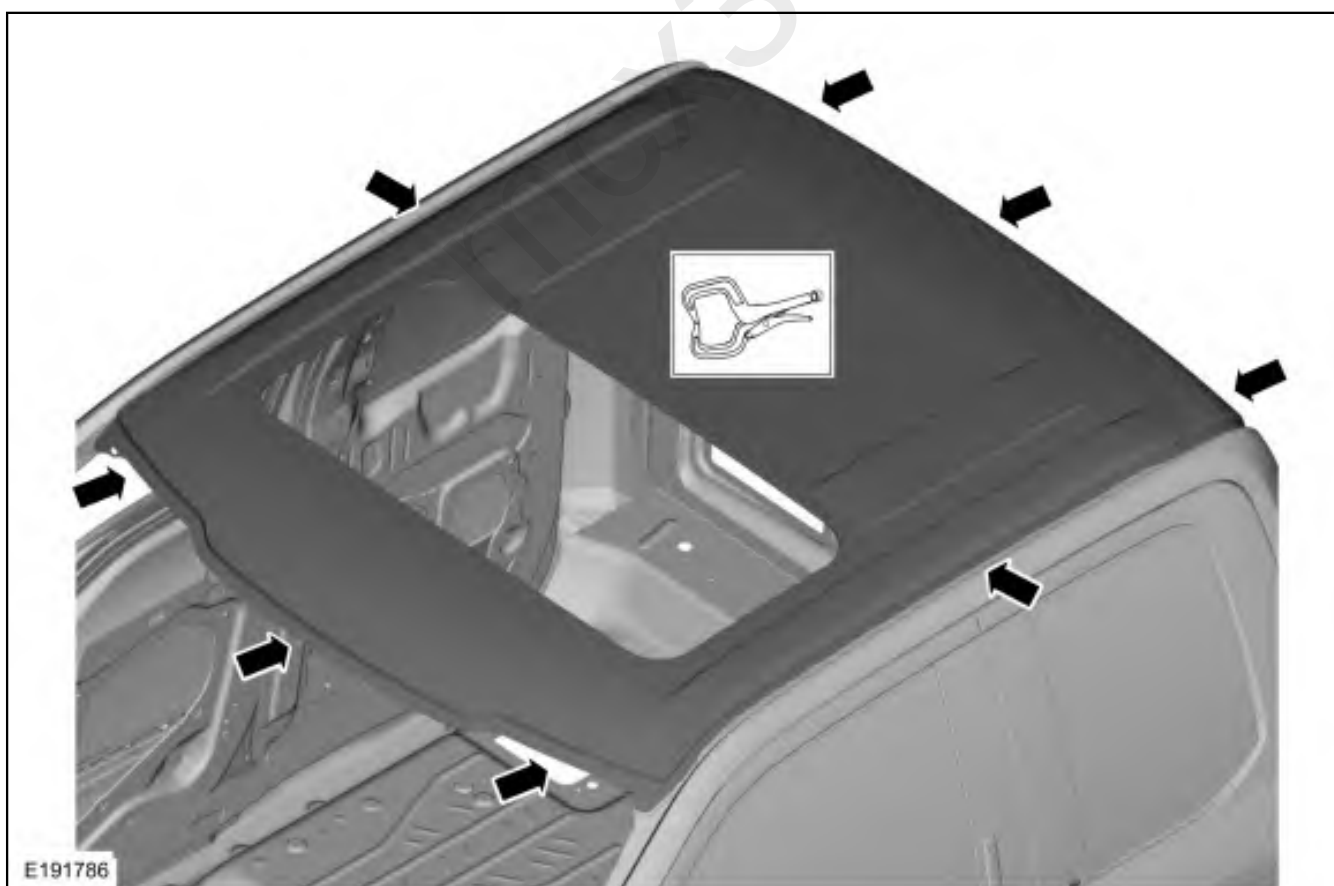
11. **NOTE:** Do not lift the roof panel to align to index marks. Slide the panel in position to reduce the possibility of breaking the adhesive bond.

NOTE: Check for full adhesive contact. Add additional adhesive to the roof supports if necessary.

Properly align the roof panel to the index marks.



12. Clamp in position.
Use the General Equipment: Locking Pliers



13. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Blind or solid rivets may be used in place of SPR in the original SPR location after enlarging hole to 6.5 mm.

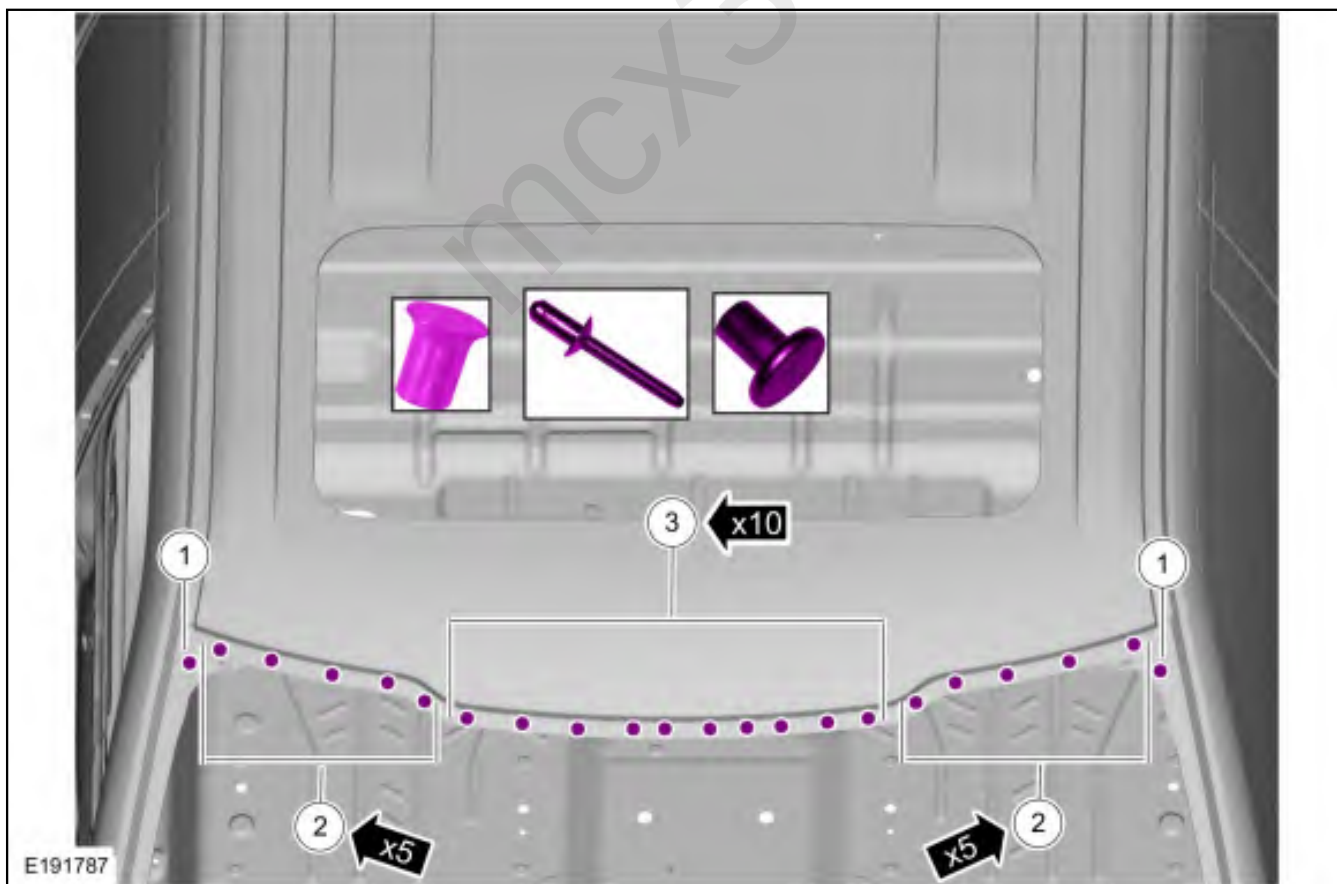
Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	W710246-S900	BN	DP10-200H	SA-0400/SA-0401	W708777-S900C	W790376-S900	-
2	W717186-S900	EN	DG11-220/H	SA-0400/SA-0402	W702554-S900C	W790377-S900	-
3	W708713-S900	AS	DZ09-025/H	SA-0400/SA-0401	W702512-S900C	W790376-S900	-

Refer to: [Joining Techniques](#) (501-25 Body Repairs - General Information, General Procedures).

Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer

Use the General Equipment: Blind Rivet Gun



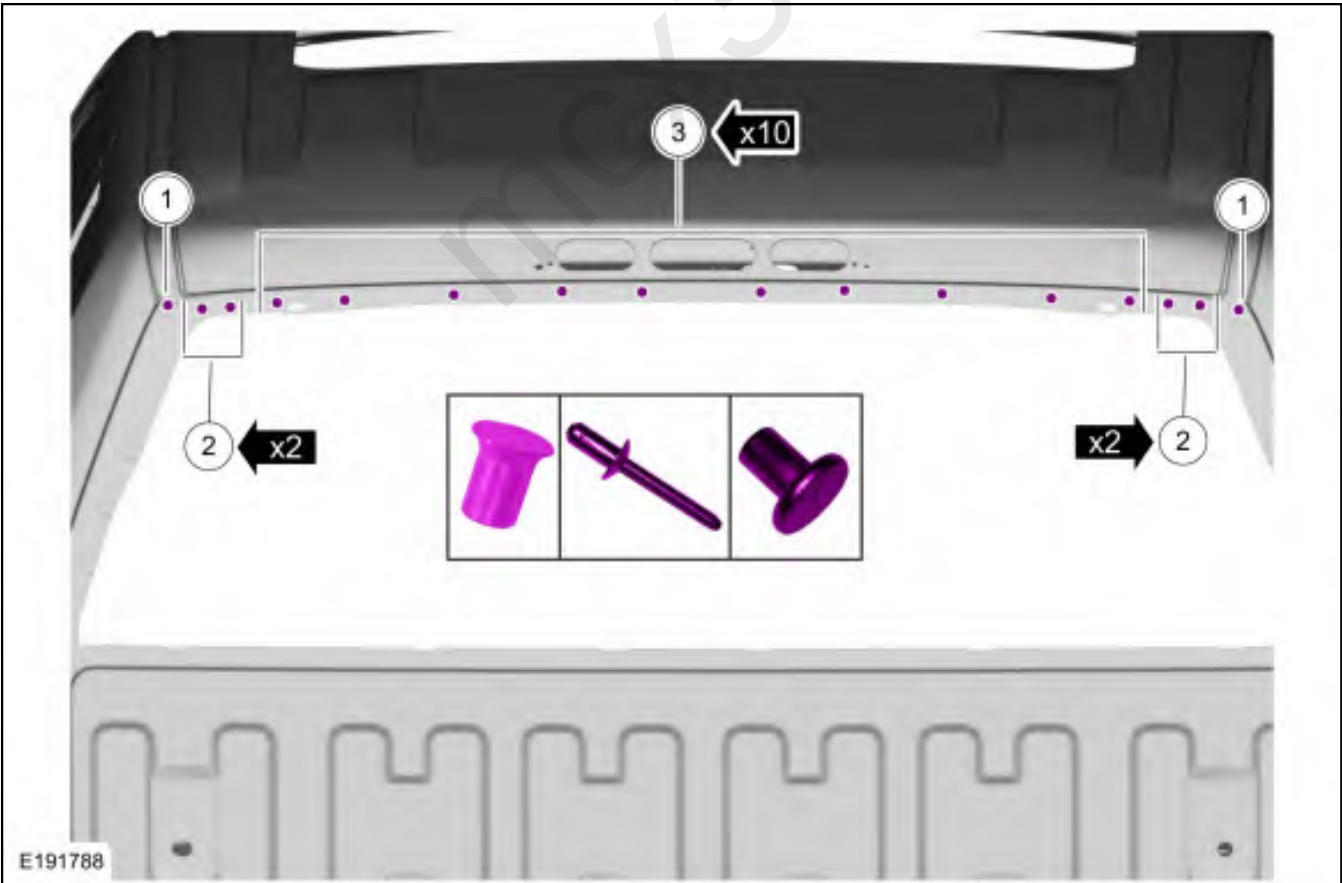
14. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Blind or solid rivets may be used in place of SPR in the original SPR location after enlarging hole to 6.5 mm.

Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	W708714-S900	AT	DZ09-025/H	SA-0400/SA-0401	W708714-S900C	W790379-S900	-
2	W710246-S900	BN	DP10-200/H	SA-0400/SA-0401	W708777-S900C	W790376-S900	-
3	W708713-S900	AS	DZ09-025/H	SA-0400/SA-0401	W702512-S900C	W790376-S900	-

Refer to: [Joining Techniques](#) (501-25 Body Repairs - General Information, General Procedures).
Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer
Use the General Equipment: Blind Rivet Gun

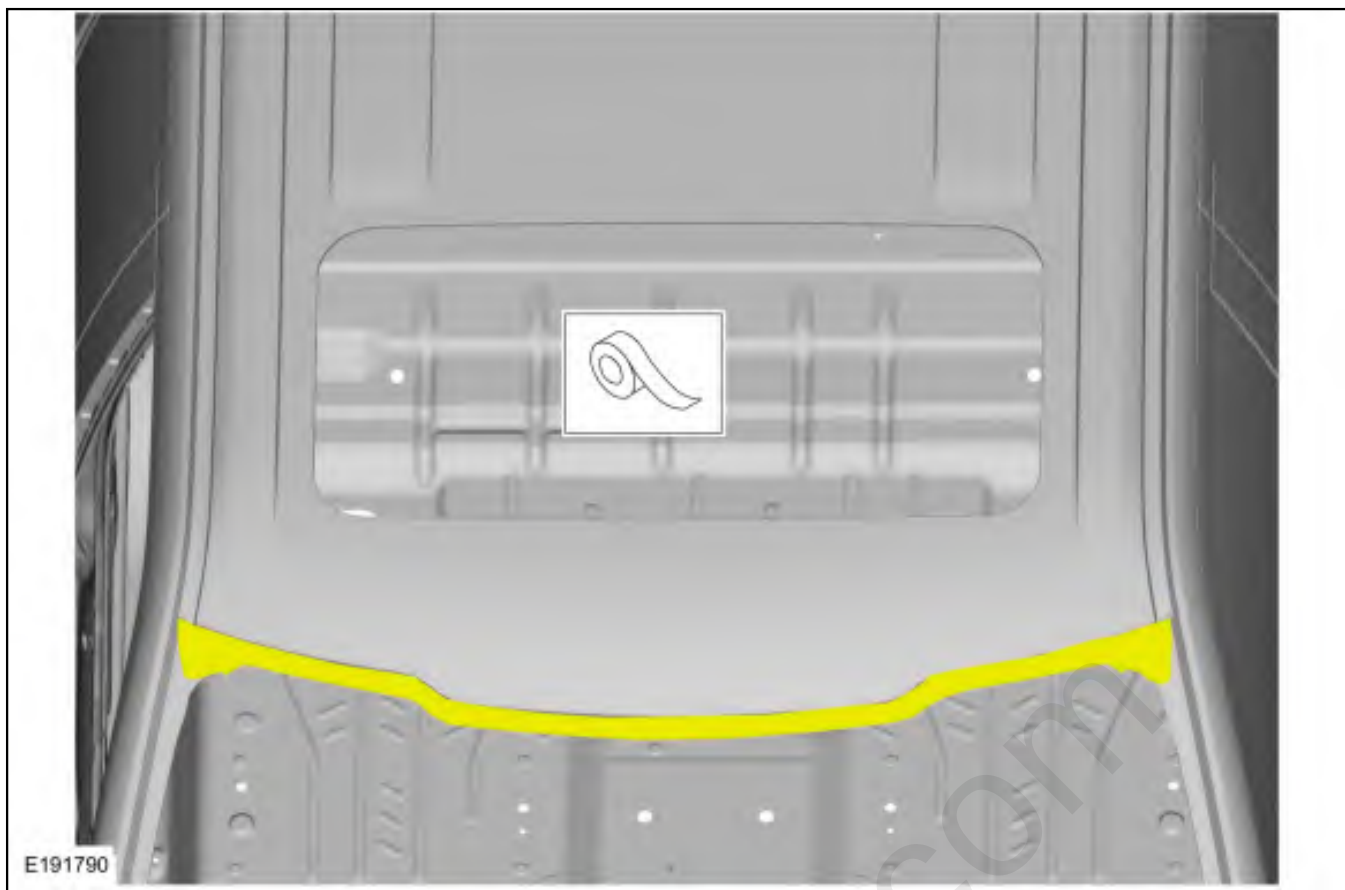


15. Sand and prime the front and rear window opening channels using a Ford approved epoxy based primer.

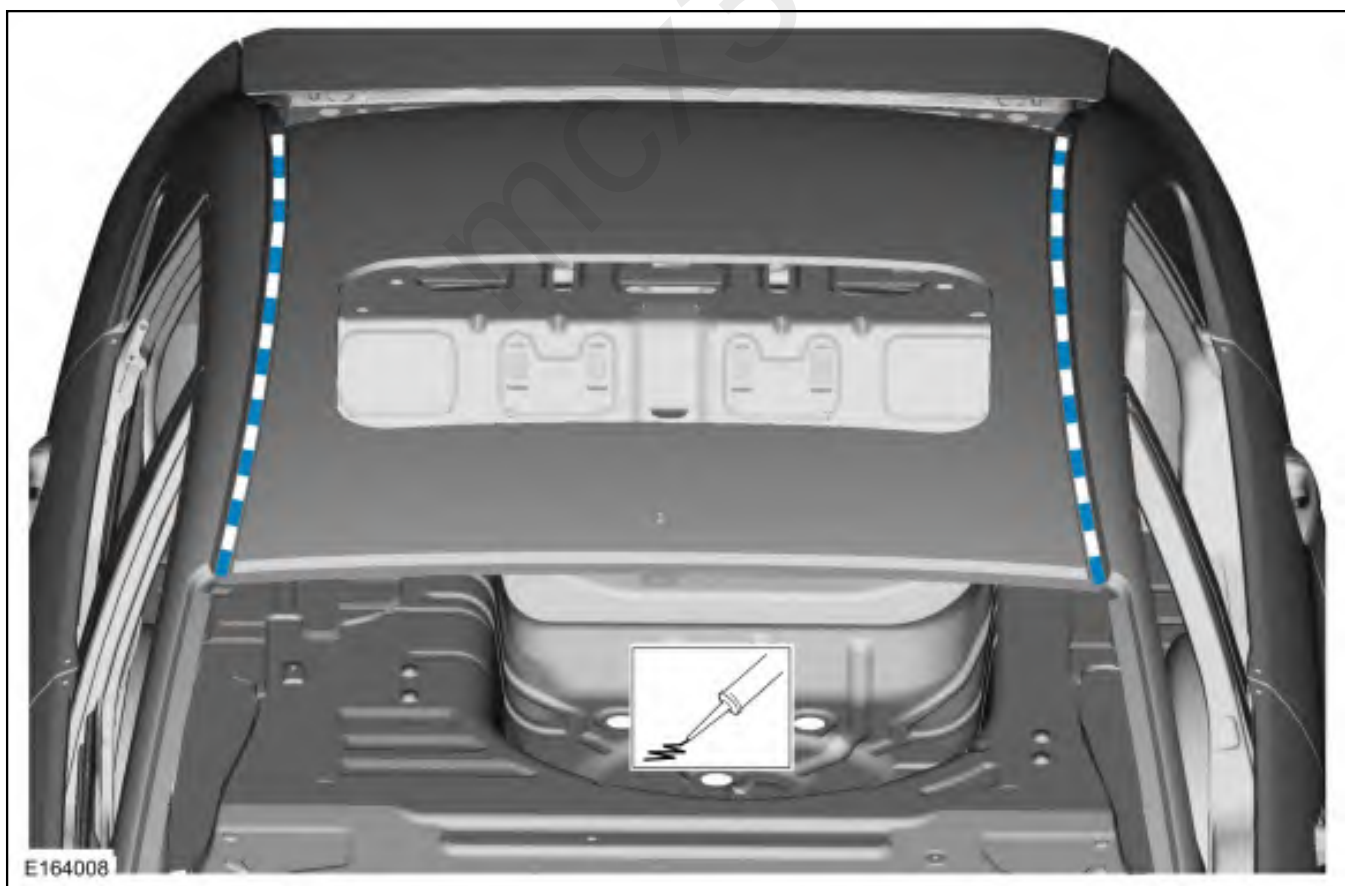
16. Mask off the rear window glass channel.



17. Mask off the windshield glass channel.



18. Apply roof ditch sealer following manufacturer's directions.
Material: Roof Ditch Sealer / 3M™ 08307, LORD Fusor® 122EZ

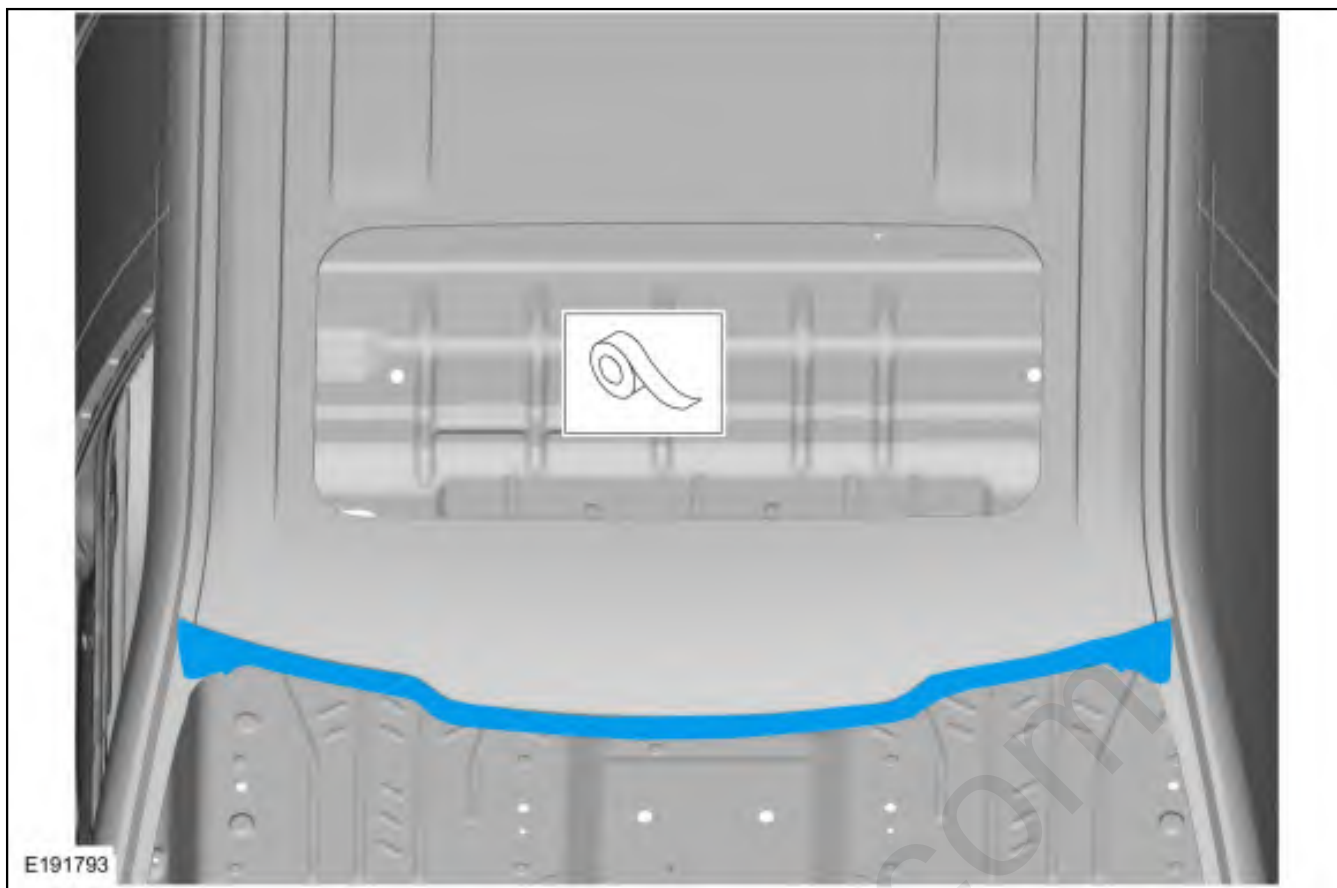


19. Refinish the entire repair area using a Ford approved paint system and standard refinishing techniques.

20. Remove the masking in the rear window glass channel.



21. Remove the masking in the windshield glass channel.



22. Install the roof opening panel and frame.
Refer to: [Roof Opening Panel Frame](#) (501-17A Roof Opening Panel, Removal and Installation).
Refer to: [Roof Opening Panel Glass](#) (501-17A Roof Opening Panel, Removal and Installation).
23. Install the satellite radio antenna.
Refer to: [Satellite Radio Antenna](#) (415-00B Information and Entertainment System - General Information - Vehicles With: SYNC Without Touchscreen, Removal and Installation).
Refer to: [Satellite Radio Antenna](#) (415-00D Information and Entertainment System - General Information - Vehicles With: Bang and Olufsen Audio System, Removal and Installation).
24. Install the side air curtain (both sides).
Refer to: [Side Curtain Airbag - SuperCab](#) (501-20B Supplemental Restraint System, Removal and Installation).
25. Install the CHMSL (center high mount stop lamp).
Refer to: [High Mounted Stoplamp](#) (417-01 Exterior Lighting, Removal and Installation).
26. Install the windshield and rear window glass.
Refer to: [Fixed Glass](#) (501-11 Glass, Frames and Mechanisms, General Procedures).
27. Install the roof moulding (both sides).
Refer to: [Roof Moulding](#) (501-08 Exterior Trim and Ornamentation, Removal and Installation).
28. Install the headliner.
Refer to: [Headliner - SuperCab](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

29. Repower the SRS.

Refer to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).

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