

## Roof Panel - SuperCab

### 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<br>TA-1, TA-1-B, 3M™ 08115, LORD Fusor® 108B | -             |
| Roof Ditch Sealer<br>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 CHMSL (center high mount stop lamp).

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

5. Remove the roof mouldings.

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

6. Remove the side curtain air bag.

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

7. Remove the satellite radio antenna.

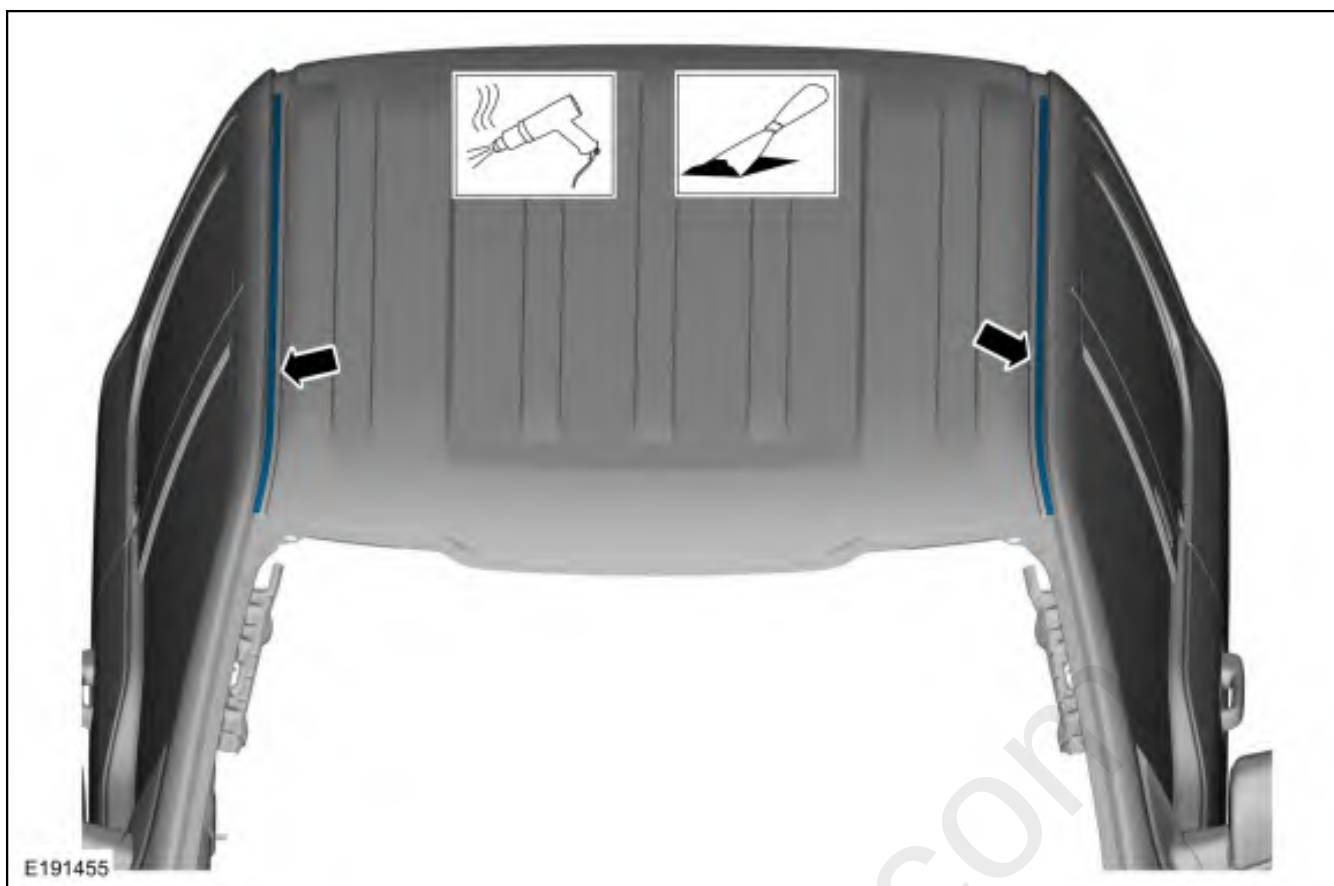
Refer to: [Satellite Radio Antenna](#) (415-00B Information and Entertainment System - General Information - Vehicles With: SYNC Without Touchscreen, Removal and Installation).

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

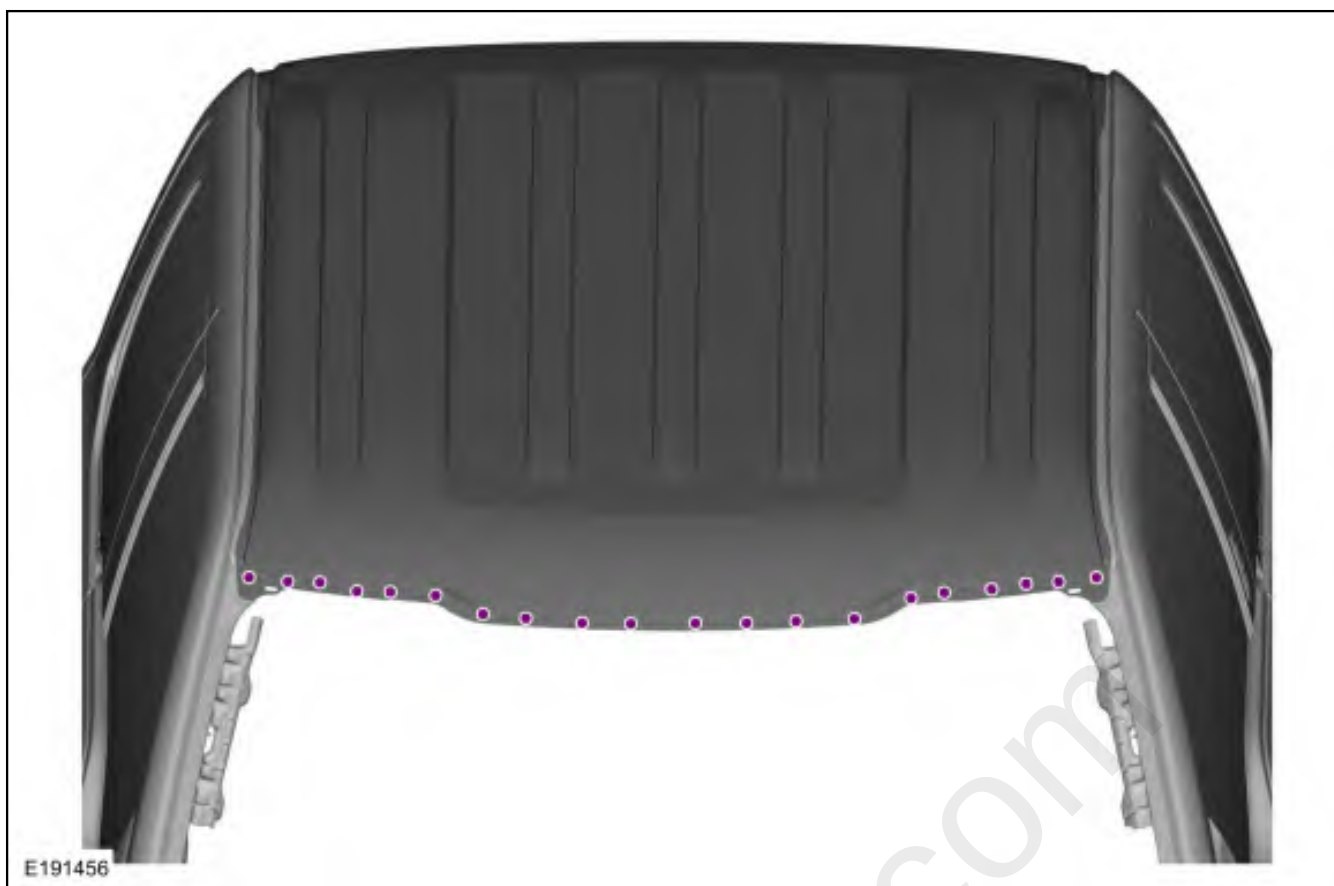
8. Remove the roof ditch sealer.

Use the General Equipment: Hot Air Gun

Use the General Equipment: Scraper for Straight Edges



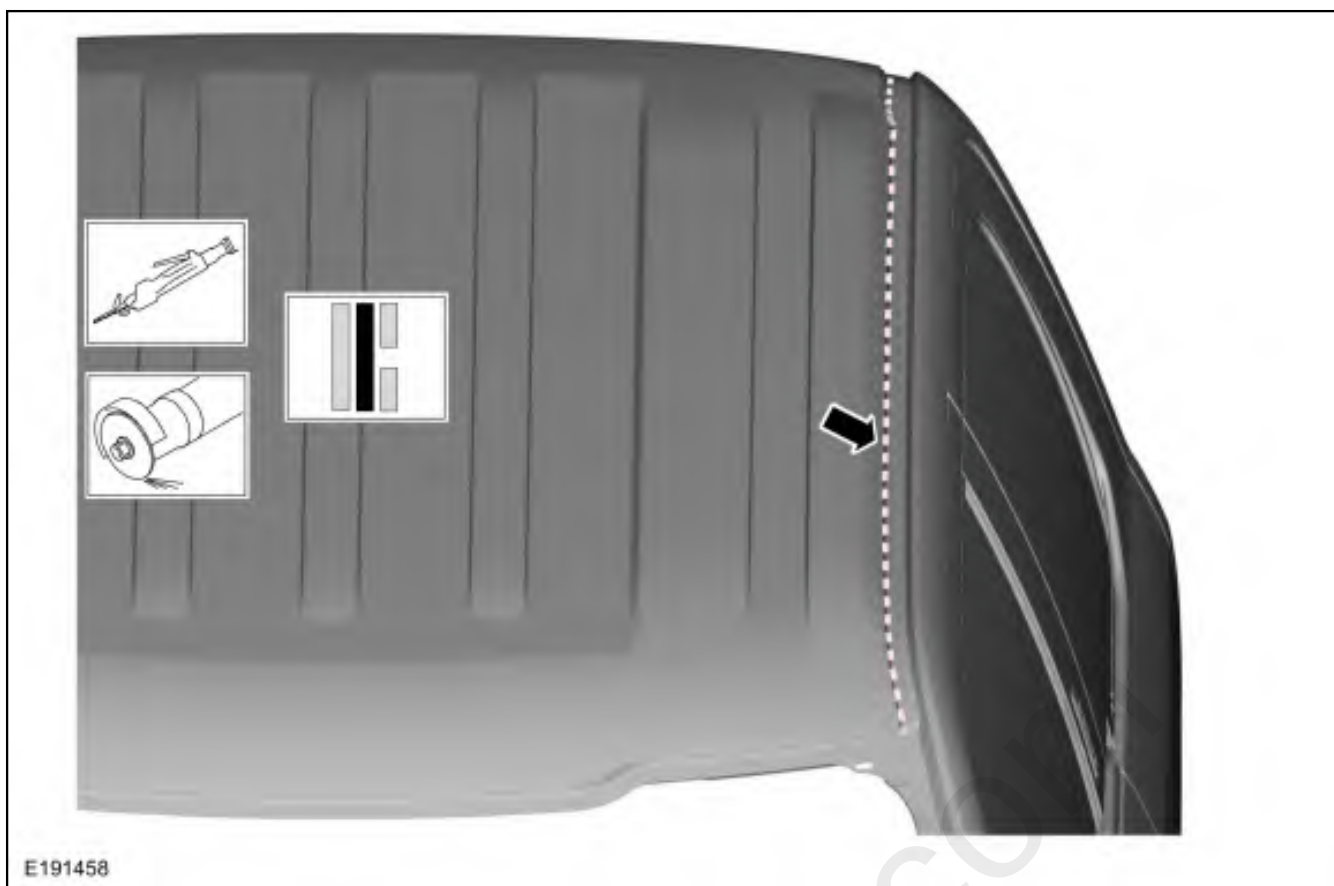
9. Remove the front header SPR fasteners.  
Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer  
Use the General Equipment: Belt Sander



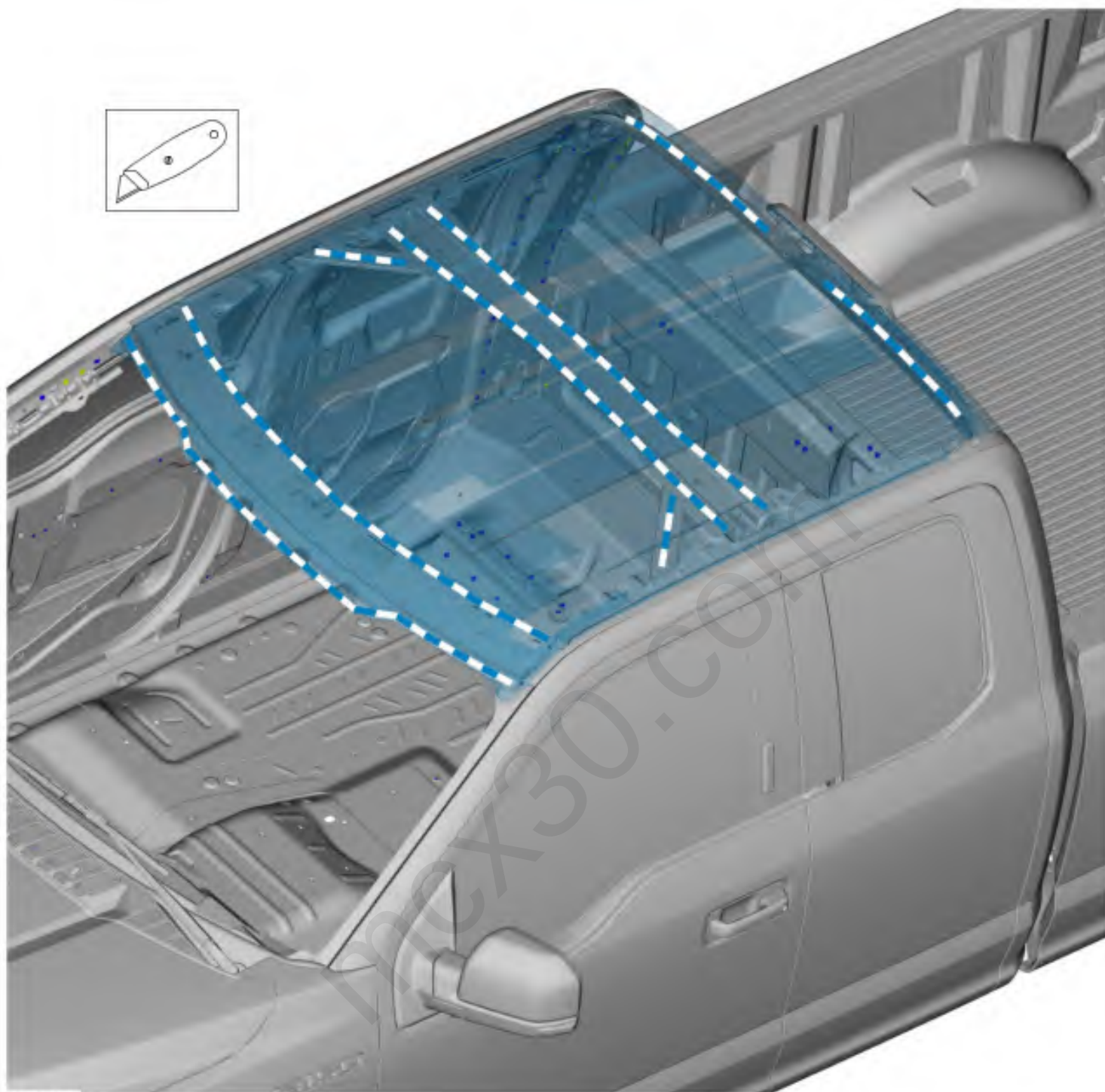
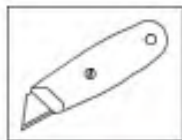
10. Remove the rear header SPR fasteners.  
Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer  
Use the General Equipment: Belt Sander



11. 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



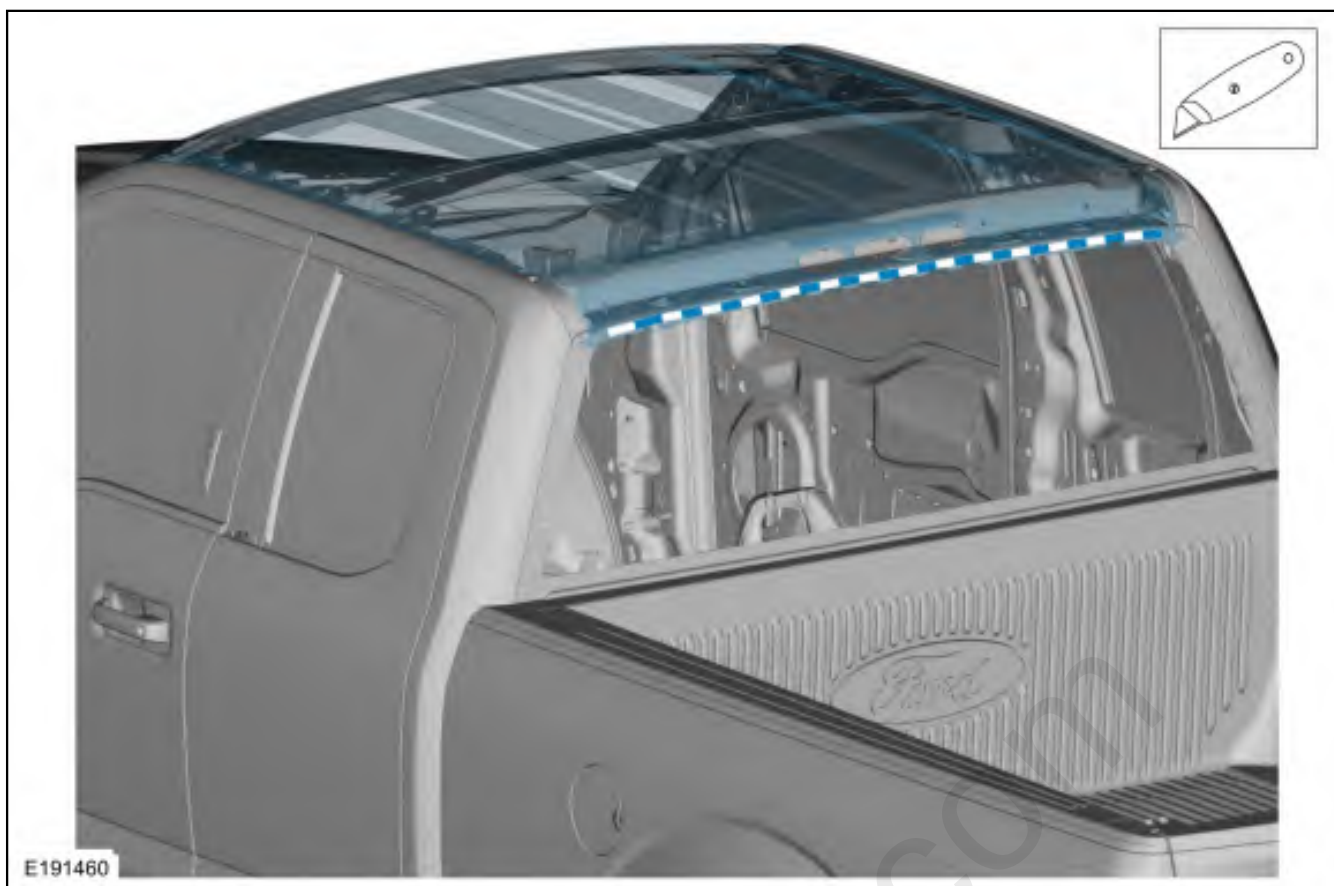
12. Leave as much foam as possible intact on the roof bows.  
Use the General Equipment: Knife



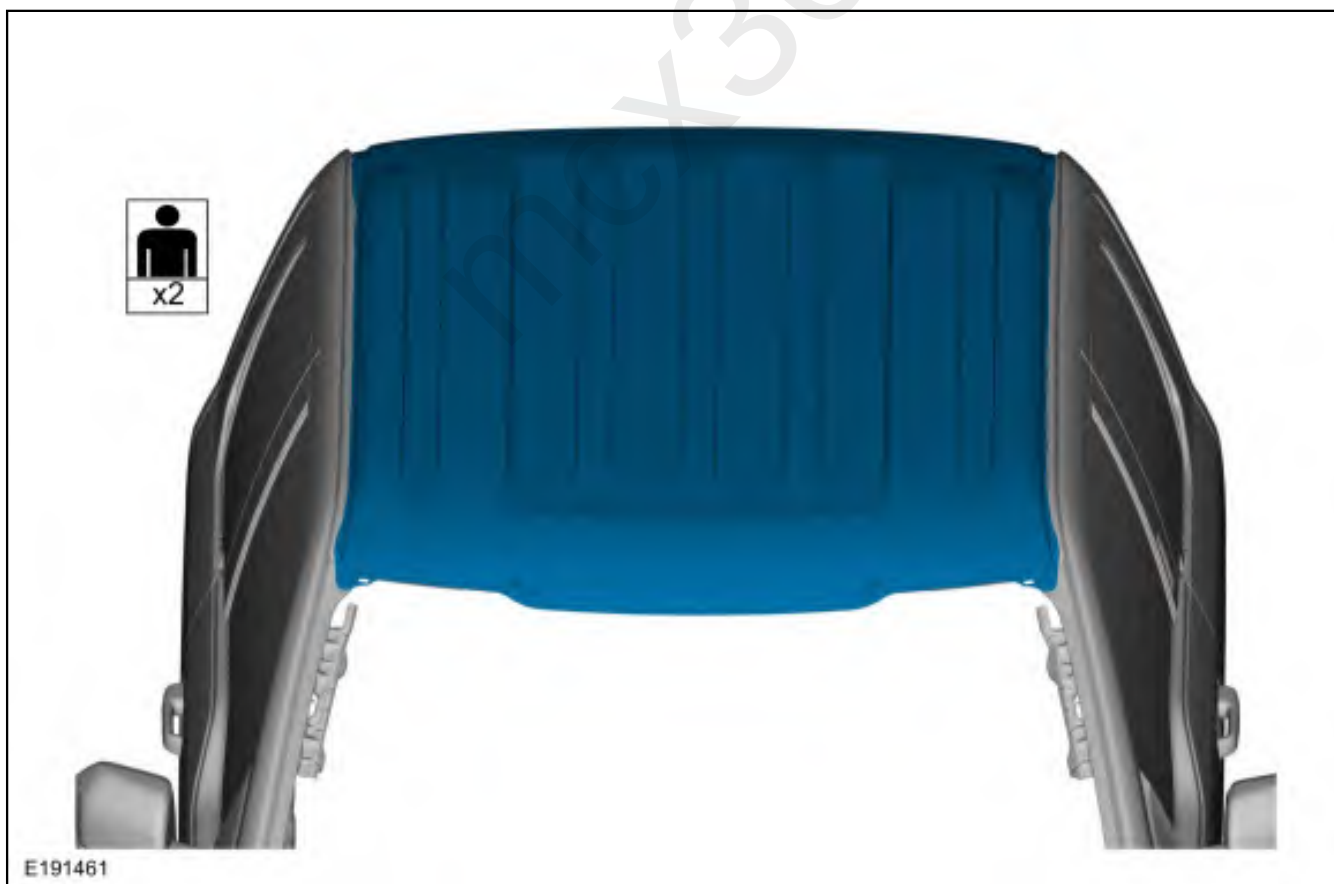
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13. Separate the roof outer panel from the rear header panel.  
Use the General Equipment: Knife

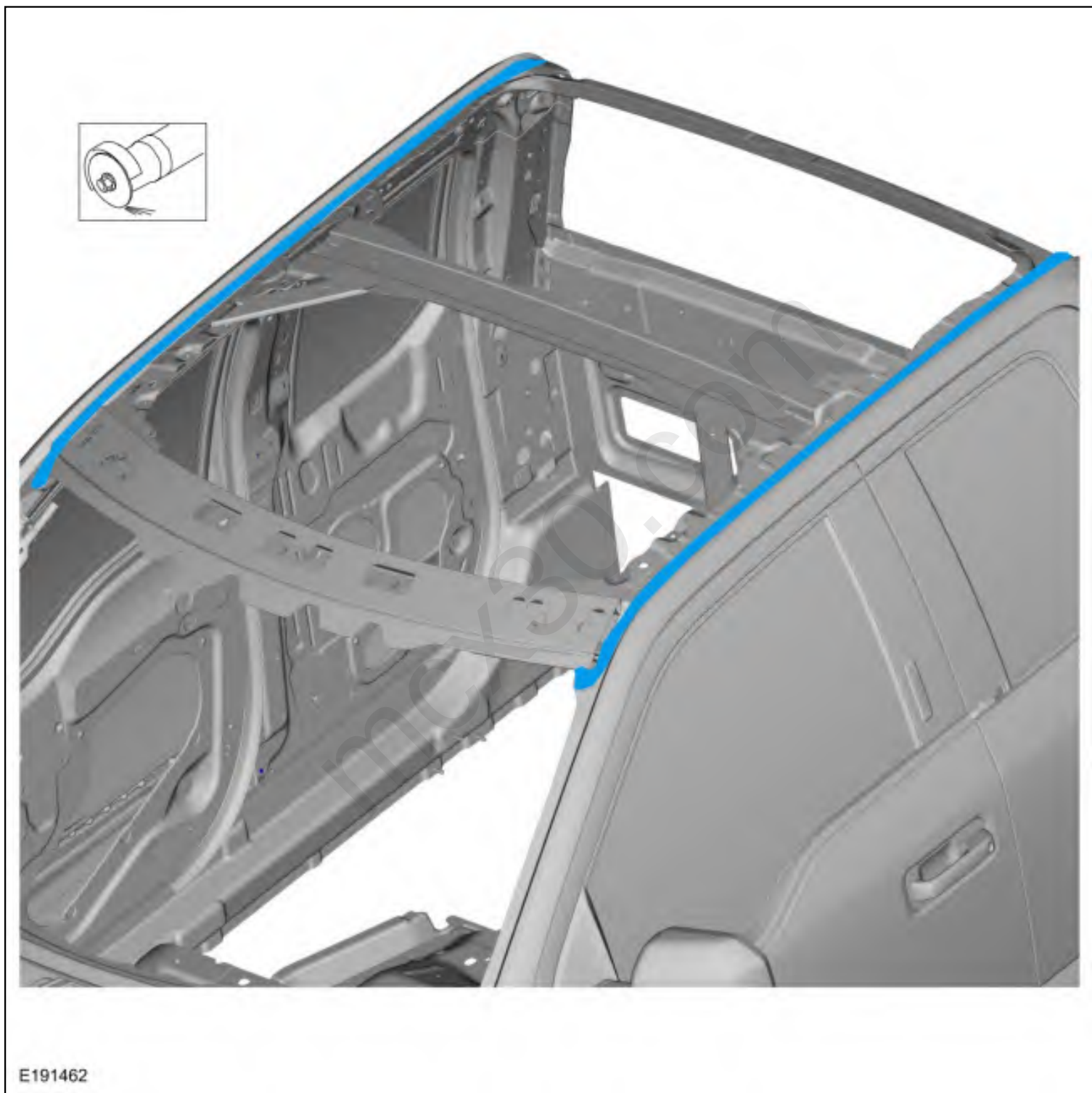


14. With the help of an assistant, remove the roof outer panel.



15. **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

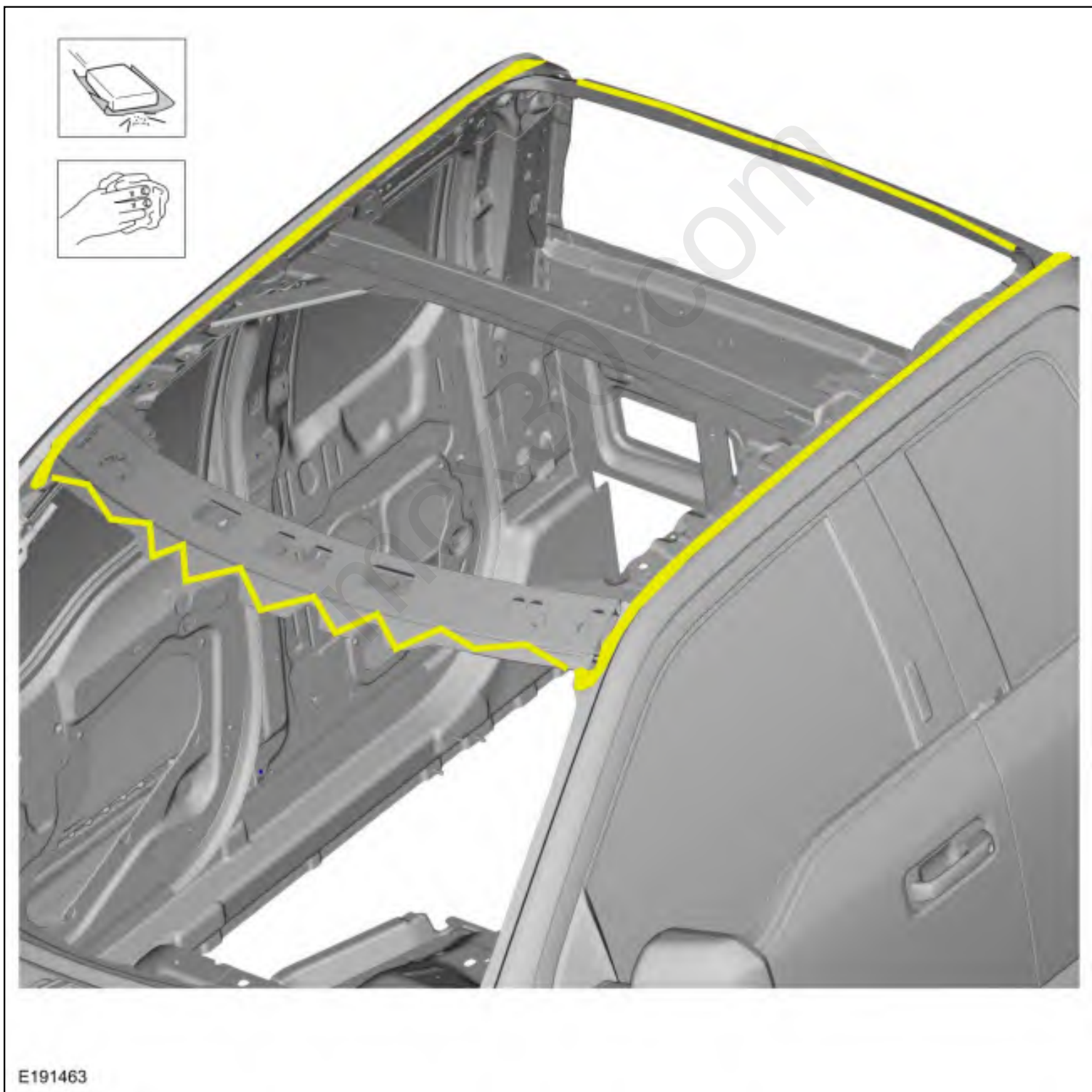
**NOTICE:** Adequately protect all glass, exterior finish and interior trim from contamination during entire repair procedure.

**NOTE:** Specific technical details including, but not limited to, fastener and adhesive information is included in the Instruction Sheet for each service part (found in the service part packaging). Instruction Sheets can also be found on the PTS (Professional Technician Society) located under the Service Tips tab for this vehicle.

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 roof mating surfaces.





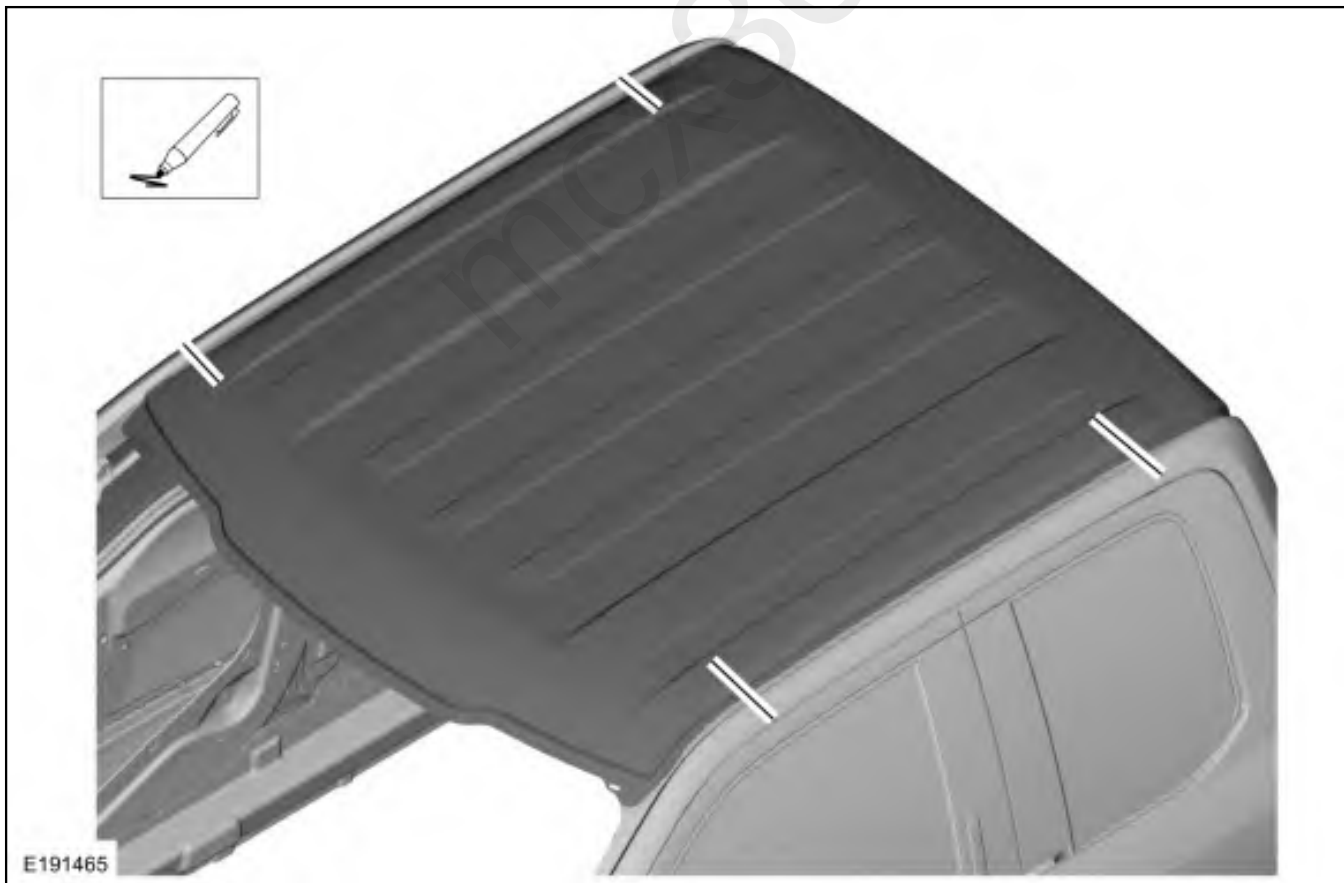
3. Sand to remove the e-coat and clean the roof panel mating surface using 80 grit sandpaper.



4. With the help of an assistant, install the roof panel.



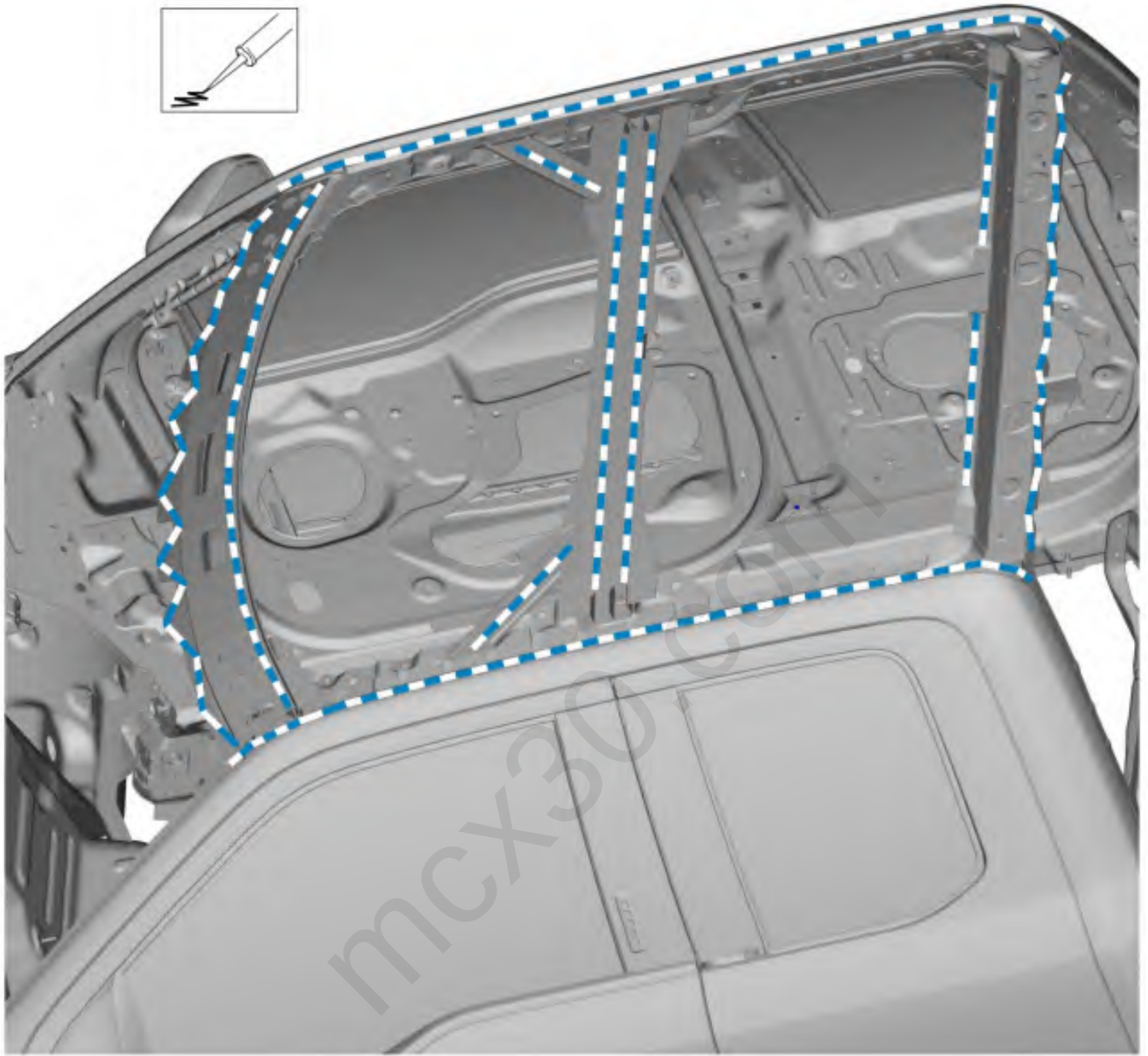
5. Properly align and index mark the roof panel to the vehicle.



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



7. Apply adhesive to the roof bows, front header, rear 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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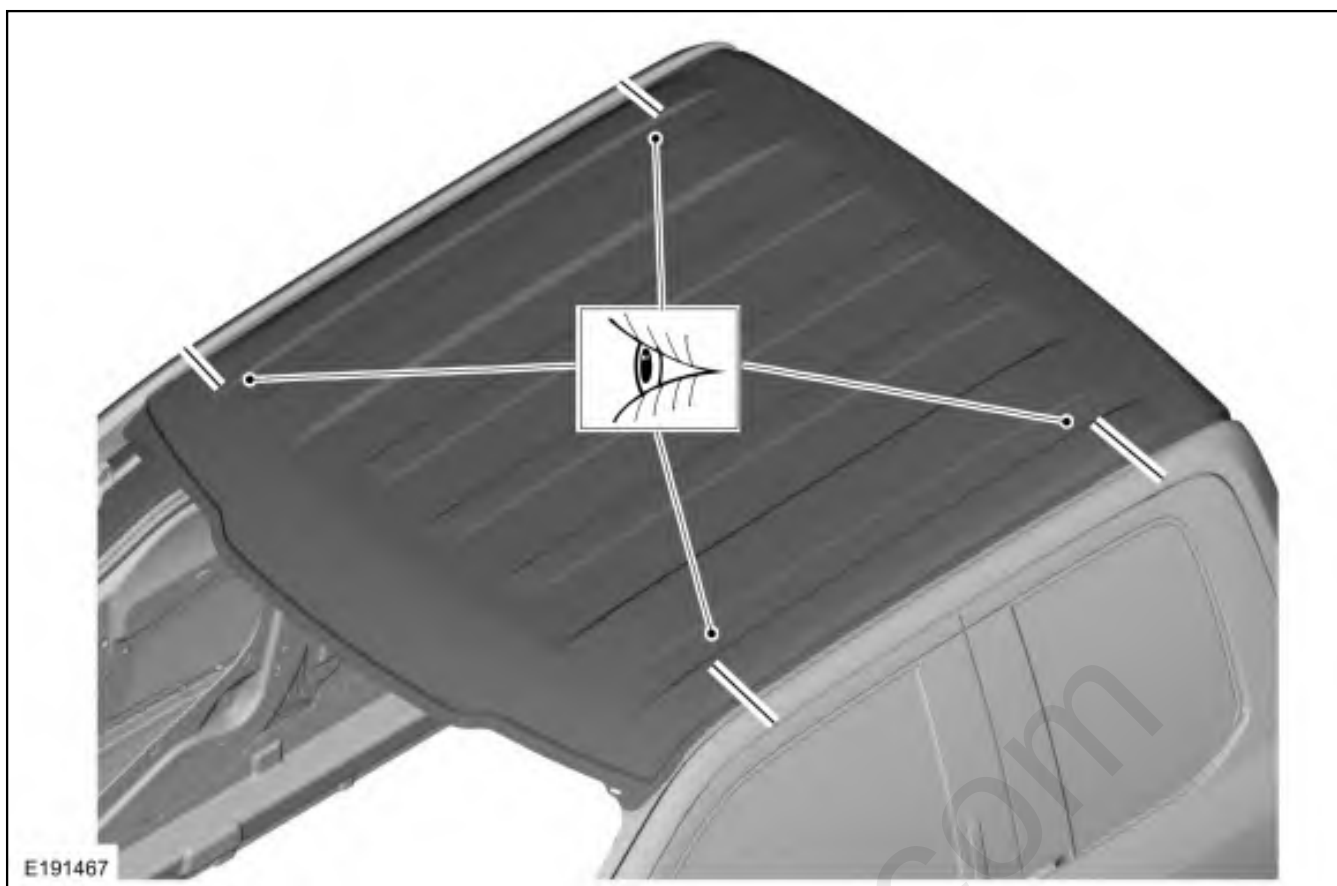
8. With the help of an assistant, install the roof panel.



9. **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 bows if necessary.

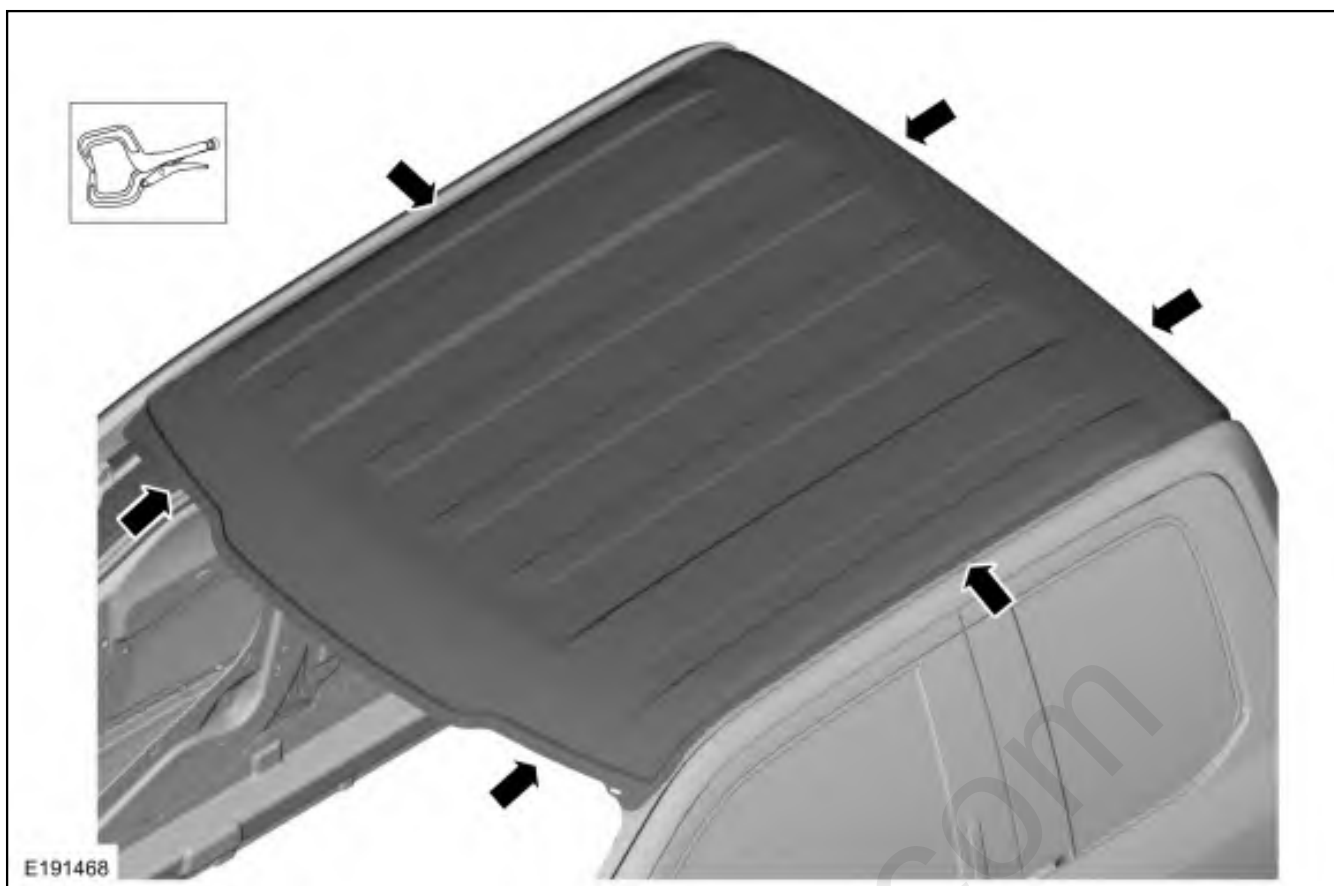
Properly align the roof panel to the index marks.



10. **NOTE:** Do not remove adhesive squeeze out in the roof ditch area, smooth in to the joint to act as additional sealer.

Clamp in position.

Use the General Equipment: Locking Pliers



11. **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.

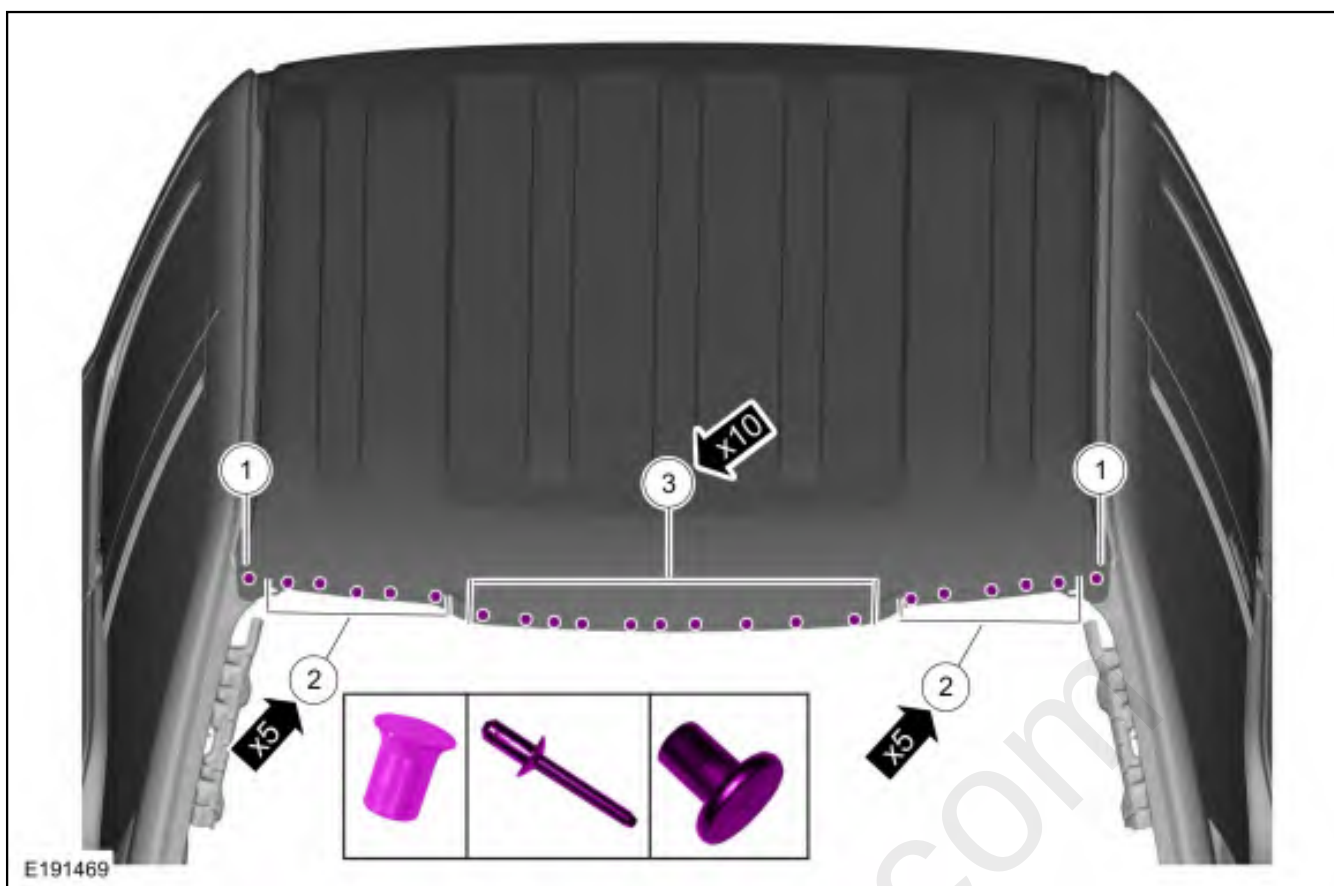
Install the fasteners.

| Item | SPR Number   | SPR Code | Henrob® Mandrel | Pro-Spot® Mandrel | Blind Rivet   | Solid Rivet  | Rivnut® |
|------|--------------|----------|-----------------|-------------------|---------------|--------------|---------|
| 1    | W710246-S900 | BN       | DP10-200/H      | SA-0400/SA-0401   | W708777-S900C | W790376-S900 | -       |
| 2    | W717189-S900 | EN       | DG11-220/H      | SA-0400/SA-0402   | W702554-S900C | W790377-S900 | -       |
| 3    | W708713-S900 | AS       | DZ09-025/H      | SA0400-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



12. **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.

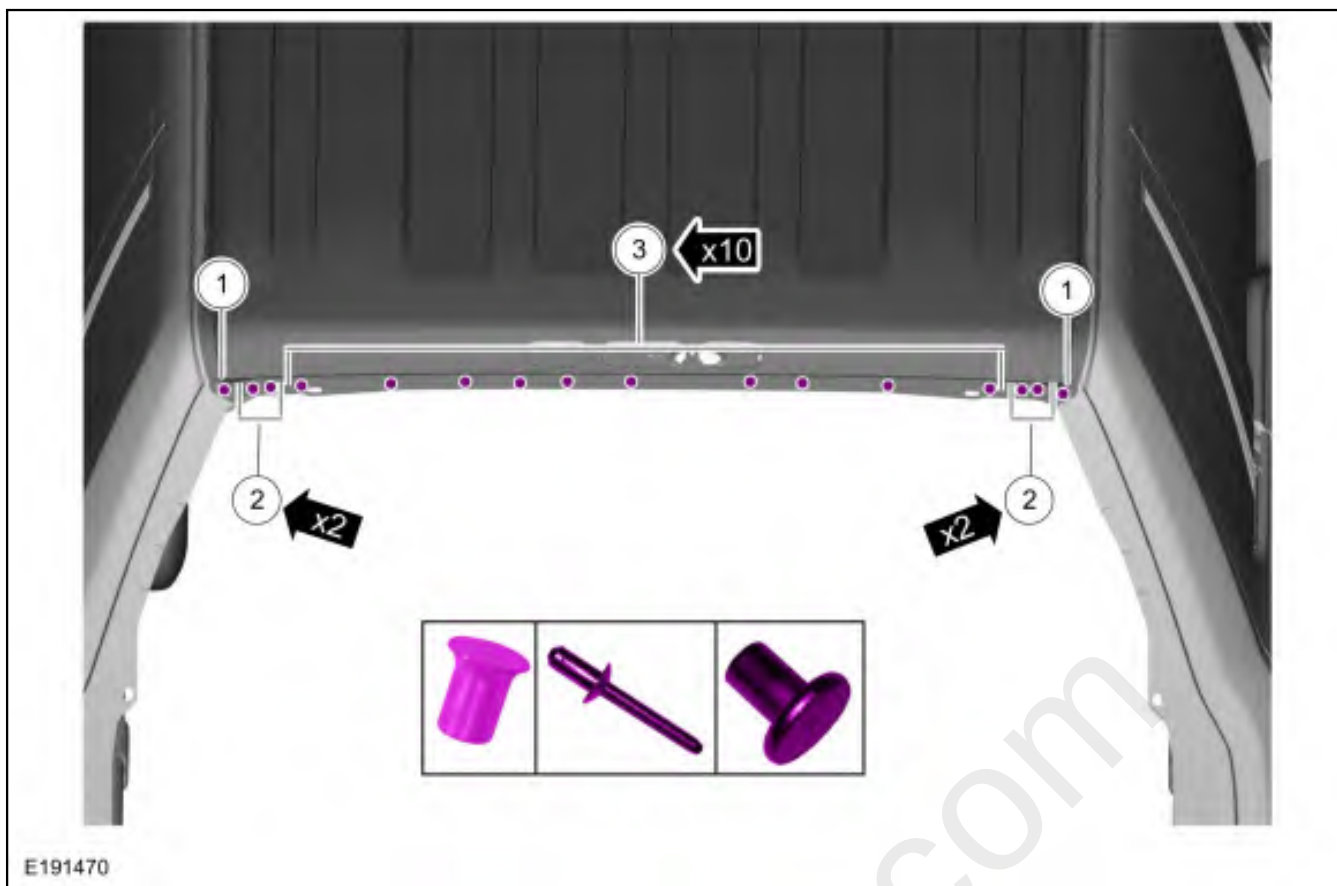
Install the fasteners.

| 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   | W707638-S900C | W790376-S900 | -       |
| 2    | W710246-S900 | BN       | DP10-200/H      | SA-0400/SA-0401   | W708777-S900C | W790376-S900 | -       |
| 3    | W708713-S900 | AS       | DZ09-025/H      | SA0400-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

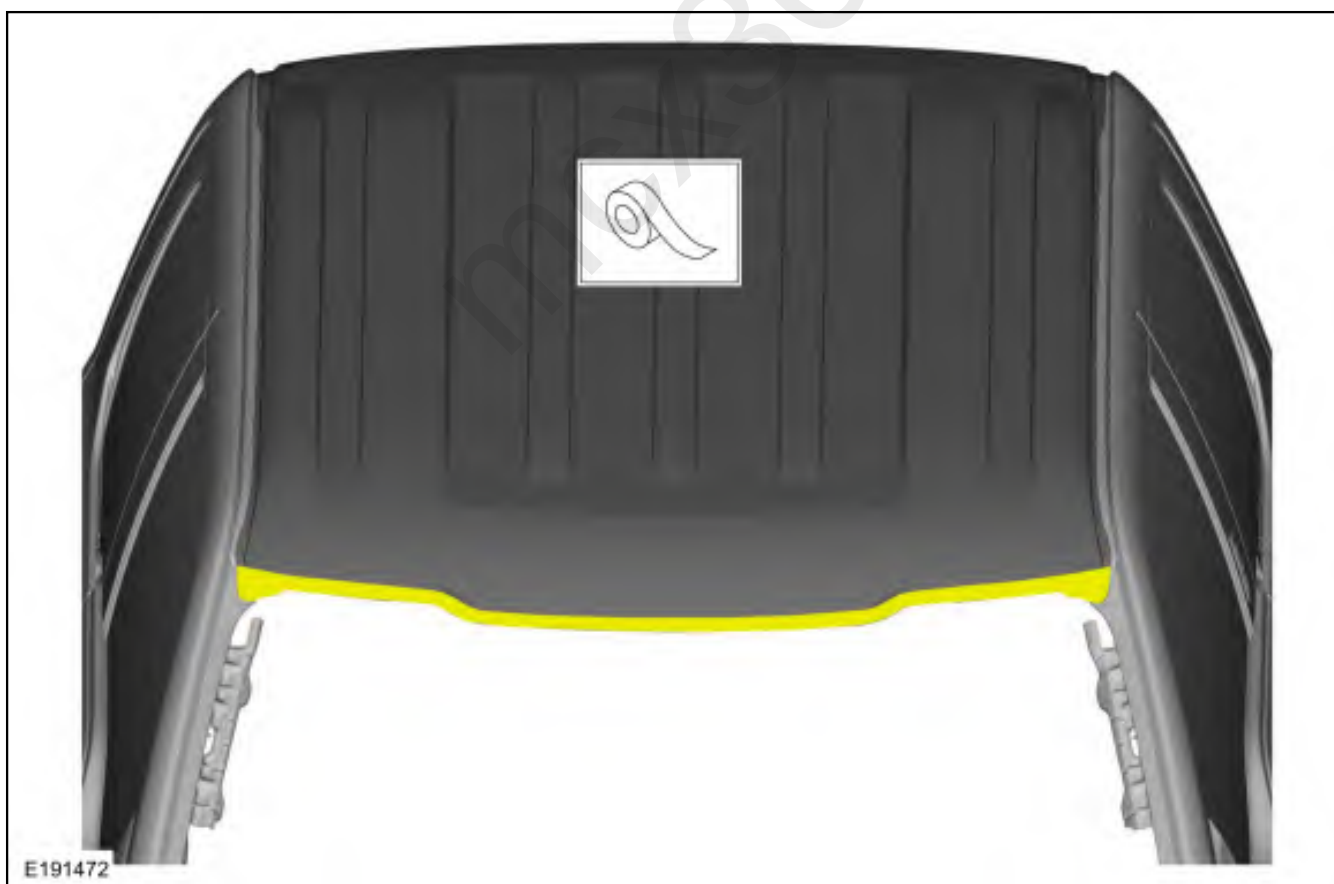


13. Sand and prime the front and rear window opening channel using a Ford approved epoxy based primer.

14. Mask off the rear window glass channel.

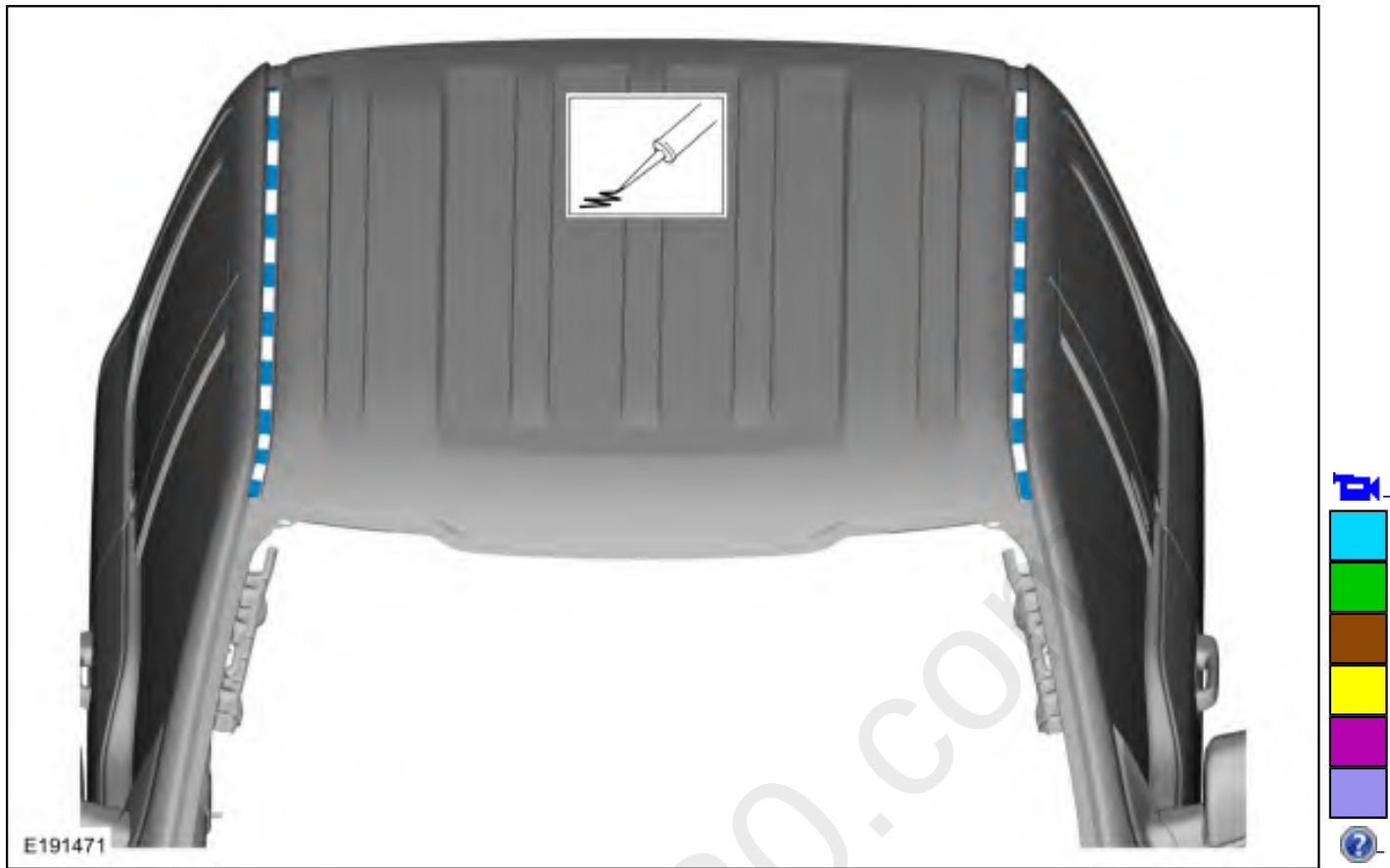


15. Mask off the front window glass channel.



16. Apply roof ditch sealer following manufacturer's directions.

*Material:* Roof Ditch Sealer / 3M™ 08307, LORD Fusor® 122EZ



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

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



19. Remove the masking in the front window glass channel.



20. 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).
21. Install the windshield and rear window glass.  
Refer to: [Fixed Glass](#) (501-11 Glass, Frames and Mechanisms, General Procedures).
22. Install the roof mouldings.  
Refer to: [Roof Moulding](#) (501-08 Exterior Trim and Ornamentation, Removal and Installation).
23. Install the CHMSL (center high mount stop lamp).  
Refer to: [High Mounted Stoplamp](#) (417-01 Exterior Lighting, Removal and Installation).
24. Install the side curtain airbags.  
Refer to: [Side Curtain Airbag - SuperCab](#) (501-20B Supplemental Restraint System, Removal and Installation).
25. Install the headliner.  
Refer to: [Headliner - SuperCab](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).
26. Repower the SRS.  
Refer to: [Supplemental Restraint System \(SRS\) Repowering](#) (501-20B Supplemental Restraint System, General Procedures).