

Roof Side Rail - Super Cab

Special Tool(s) / General Equipment

6.5 mm Drill Bit
Polydrive Bit Socket
Self-Piercing Rivet (SPR) Remover/Installer
Belt Sander
Blind Rivet Gun
Locking Pliers

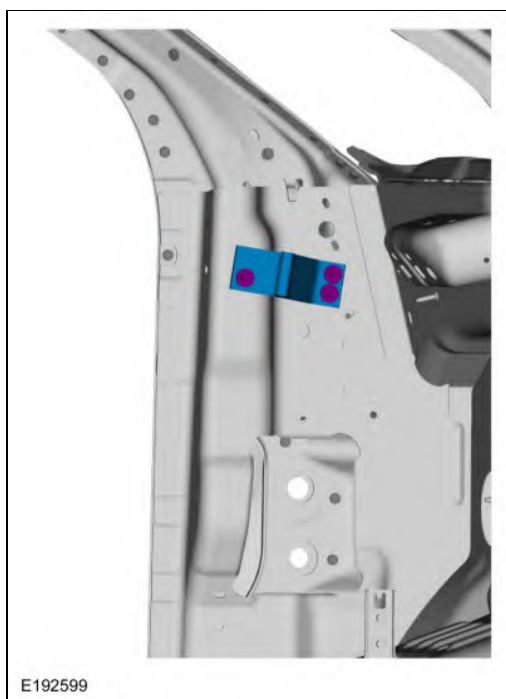
Materials

Name	Specification
Metal Bonding Adhesive TA-1, TA-1-B, 3M [®] , 08115, LORD Fusor [®] 108B	-
Seam Sealer TA-2-B, 3M [®] , 08308, LORD Fusor [®] 805DTM	-

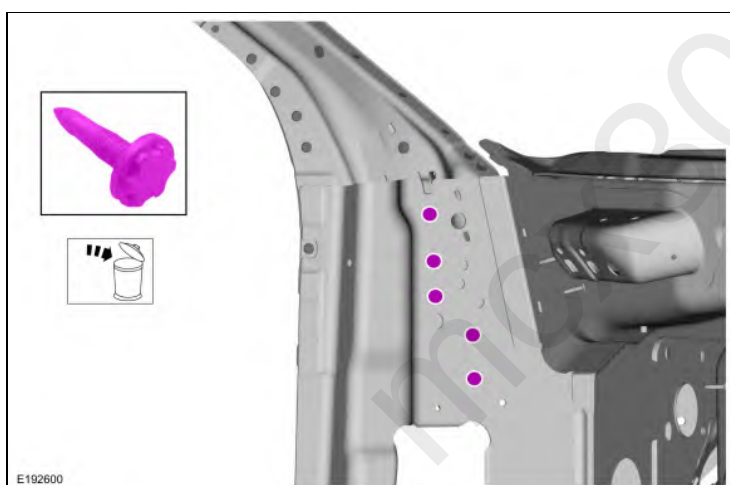
Removal

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.

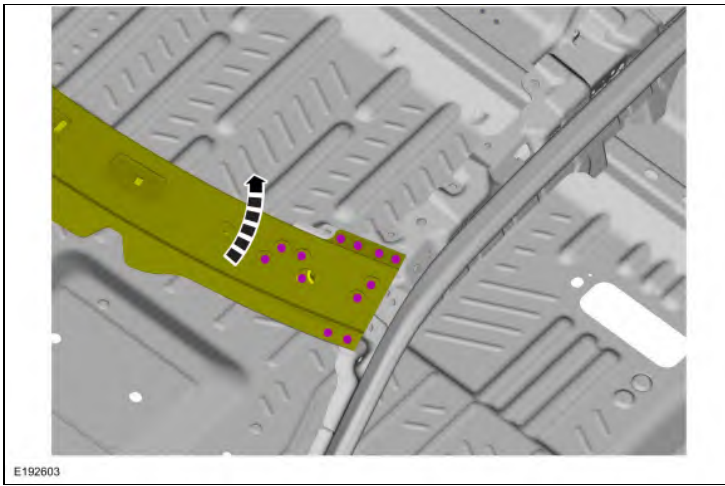
1. Depower the SRS.
Refer to: Supplemental Restraint System (SRS) Depowering (501-20B Supplemental Restraint System, General Procedures).
2. Remove the front fender and splash shield.
Refer to: Fender Splash Shield (501-02 Front End Body Panels, Removal and Installation).
Refer to: Fender (501-02 Front End Body Panels, Removal and Installation).
3. Remove the doors.
Refer to: Front Door - SuperCab (501-03 Body Closures, Removal and Installation).
Refer to: Rear Door - SuperCab (501-03 Body Closures, Removal and Installation).
4. Remove the instrument panel.
Refer to: Instrument Panel (501-12 Instrument Panel and Console, Removal and Installation).
5. Make sure the vehicle is dimensionally correct.
Refer to: Body and Frame (501-26 Body Repairs - Vehicle Specific Information and Tolerance Checks, Description and Operation).
6. Remove the outer roof panel.
Refer to: Roof Panel - Super Cab (501-28 Roof Sheet Metal Repairs, Removal and Installation).
Refer to: Roof Panel - Super Cab, Vehicles With: Roof Opening Panel (501-28 Roof Sheet Metal Repairs, Removal and Installation).
7. Remove the body side sheet metal in the repair area.
Refer to: Body Panel Sectioning (501-26 Body Repairs - Vehicle Specific Information and Tolerance Checks, General Procedures).
8. Remove the bolts and cross-car beam bracket.



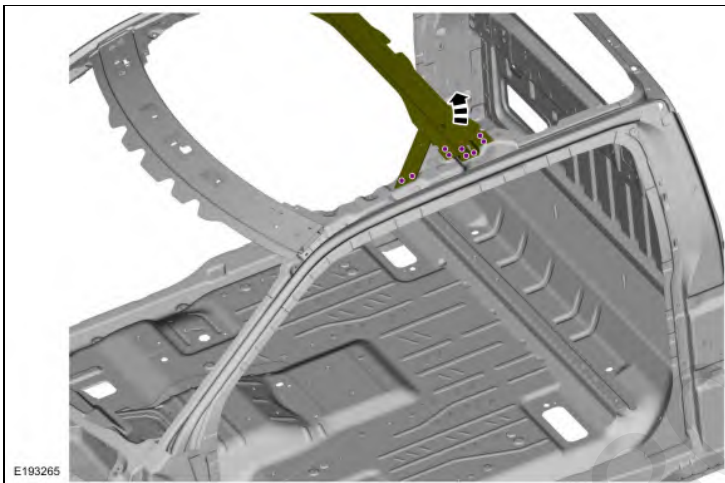
9. Remove and discard the FDS fasteners.
Use the General Equipment: Polydrive Bit Socket



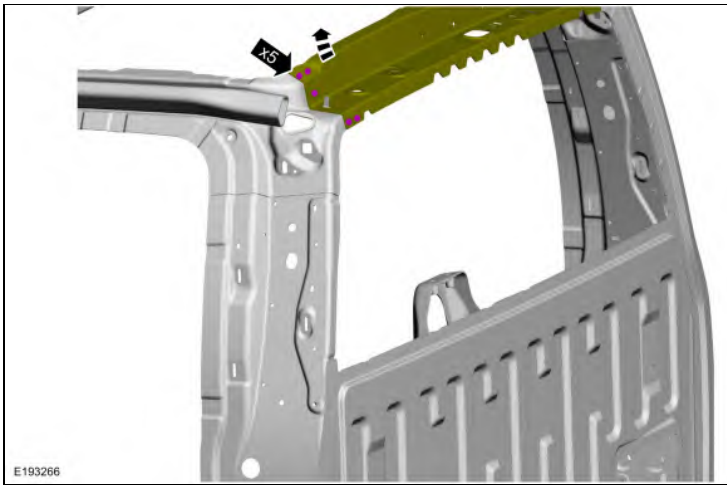
10. Remove the A-pillar reinforcement.
Refer to: A-Pillar Outer Panel Section and Reinforcement (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).
11. Remove the SPR fasteners and position aside the windshield header panel.
Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer
Use the General Equipment: Belt Sander



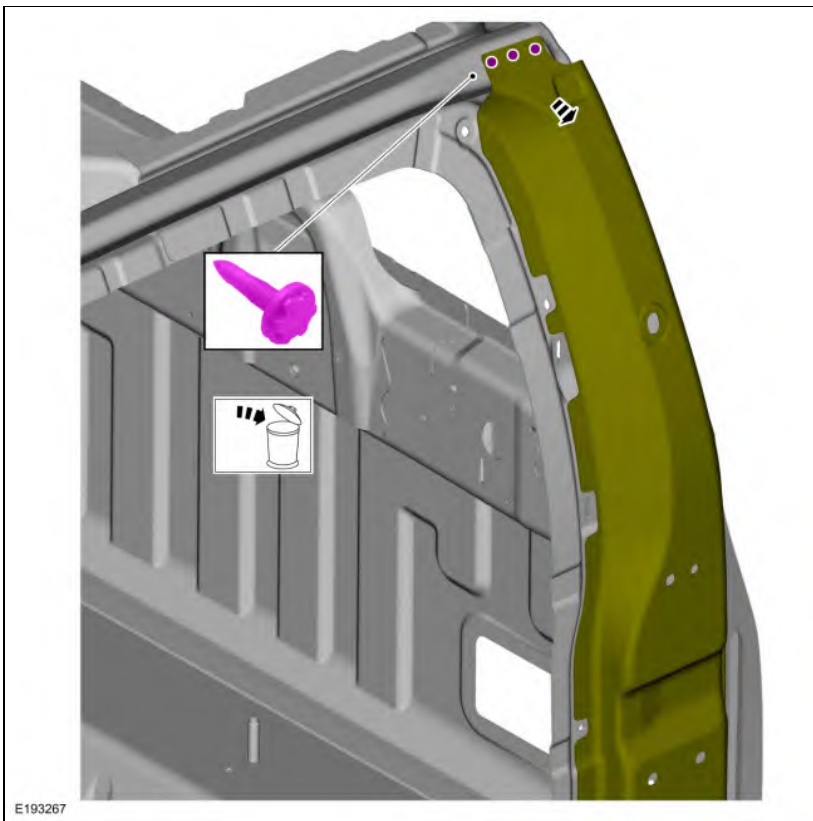
12. Remove the SPR fasteners and position aside the roof reinforcement.
 Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer
 Use the General Equipment: Belt Sander



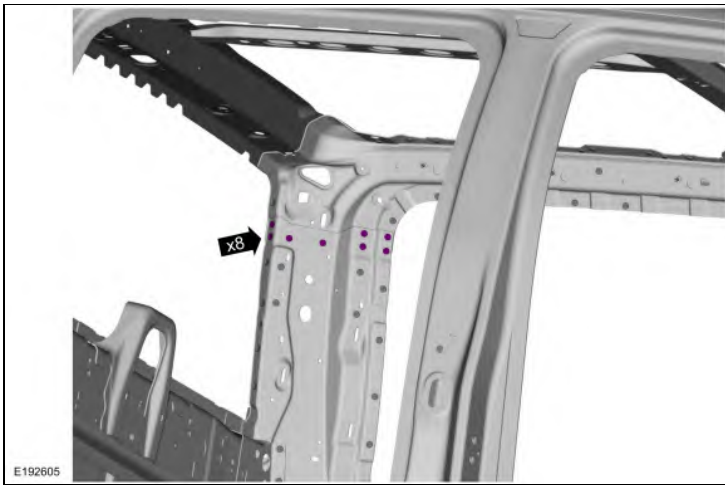
13. Remove the SPR fasteners and position aside the rear window glass header panel.
 Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer
 Use the General Equipment: Belt Sander



14. Remove and discard the FDS fasteners and position aside the C-pillar reinforcement.
Use the General Equipment: Polydrive Bit Socket

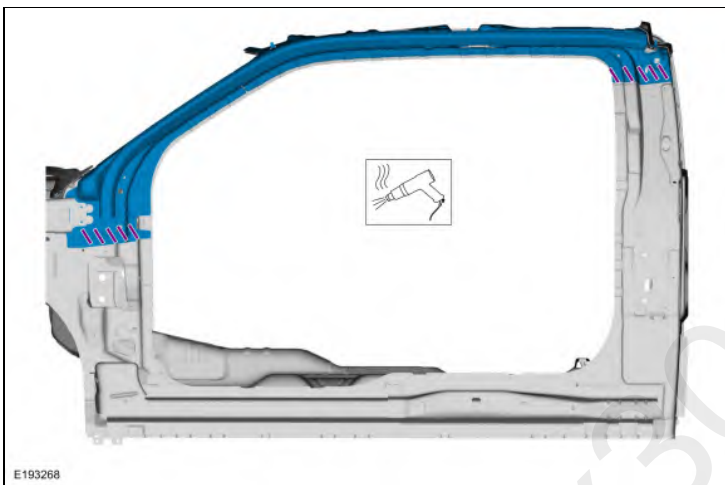


15. Remove the SPR fasteners.
 Use the General Equipment: Self-Piercing Rivet (SPR) Remover/Installer
 Use the General Equipment: Belt Sander



16. **NOTE:** The use of heat may help in removal of the roof side rail. Do not exceed 425°F.

Remove the roof side rail.

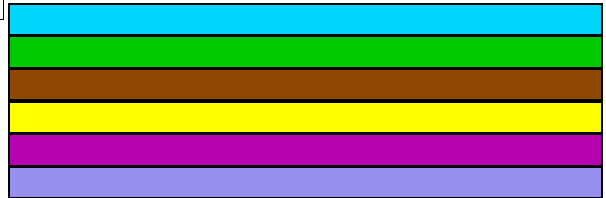
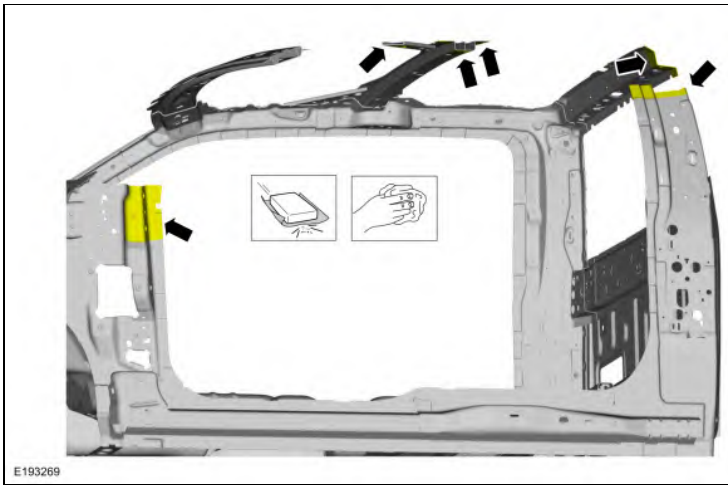


Installation

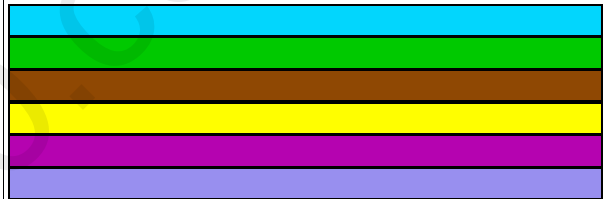
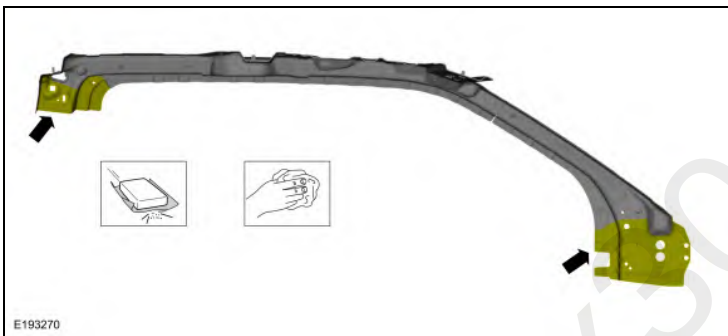
NOTE: SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm

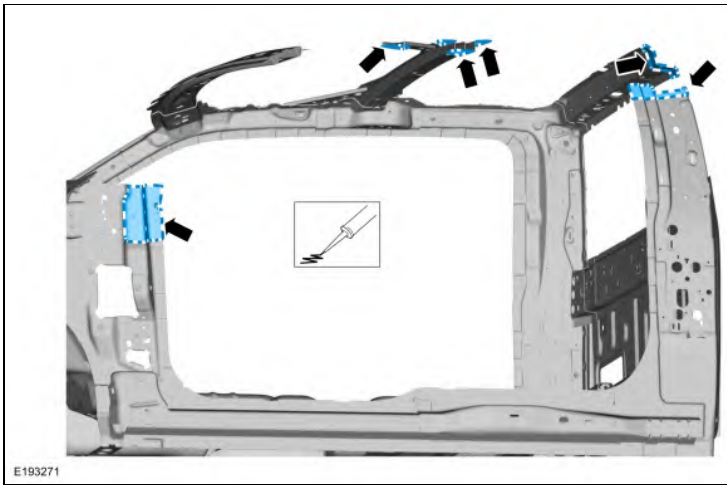
1. 80-120 grit sand paper.
Sand to remove old adhesive and clean.



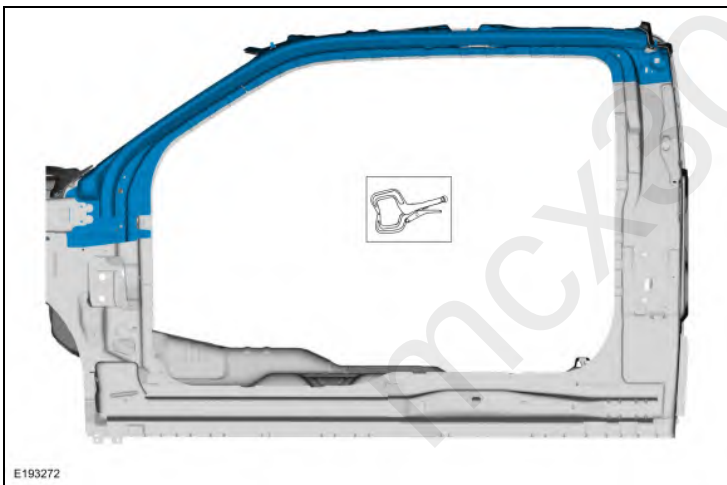
2. 80-120 grit sand paper.
Sand to remove e-coat and clean.



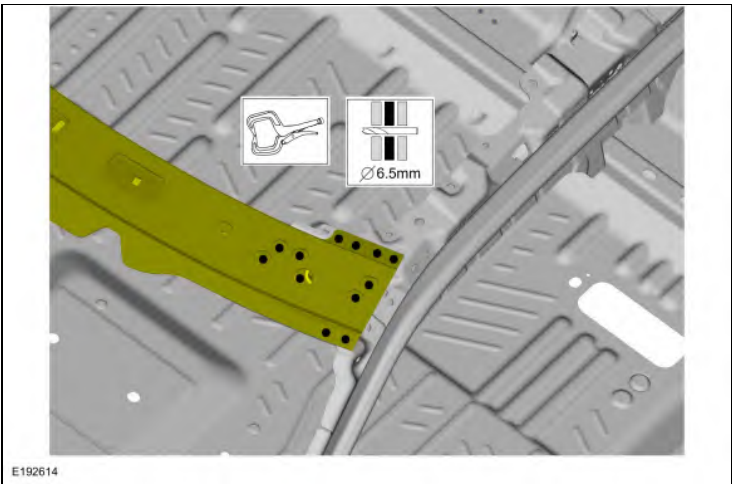
3. Apply adhesive.
Material: Metal Bonding Adhesive / TA-1, TA-1-B, 3Mâ„ 08115, LORD FusorÂ® 108B



4. Install, properly position and clamp.
Use the General Equipment: Locking Pliers



5. Position the windshield header panel, clamp in position and drill as indicated.
Use the General Equipment: Locking Pliers
Use the General Equipment: 6.5 mm Drill Bit



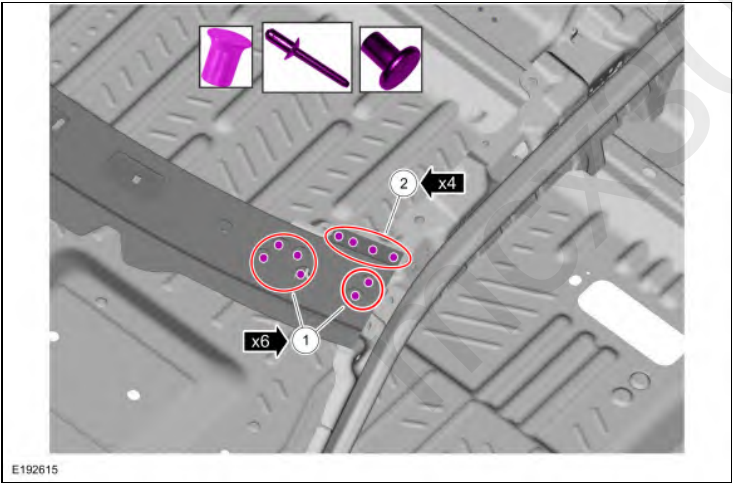
6. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm

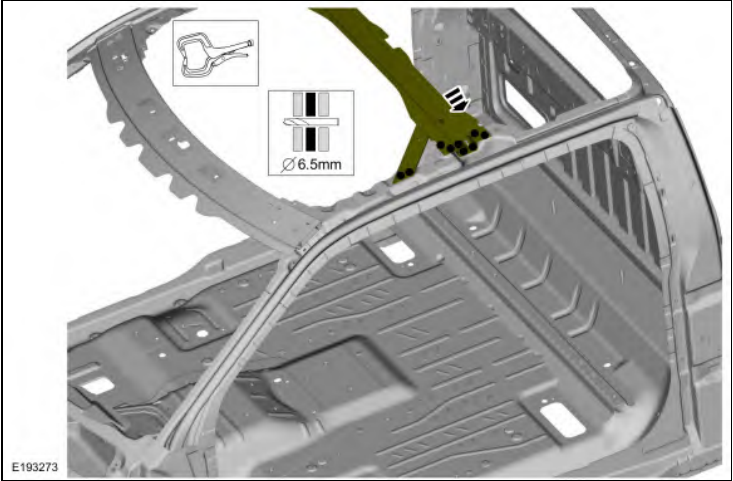
Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	-	-	-	-	W708777-S900C	-	-
2	W710246-S900	BN	DP10-200/H	SA-0400/SA-0402	-	W790377-S900	-

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



7. Position, clamp and drill the roof reinforcement.
Use the General Equipment: Locking Pliers
Use the General Equipment: 6.5 mm Drill Bit



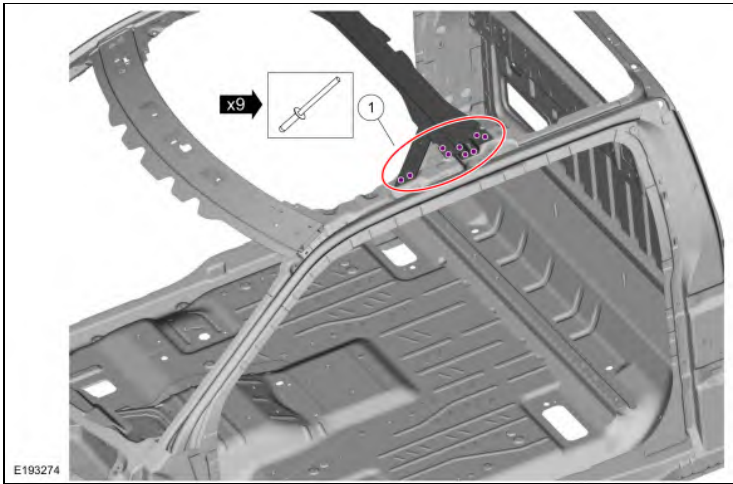
8. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm

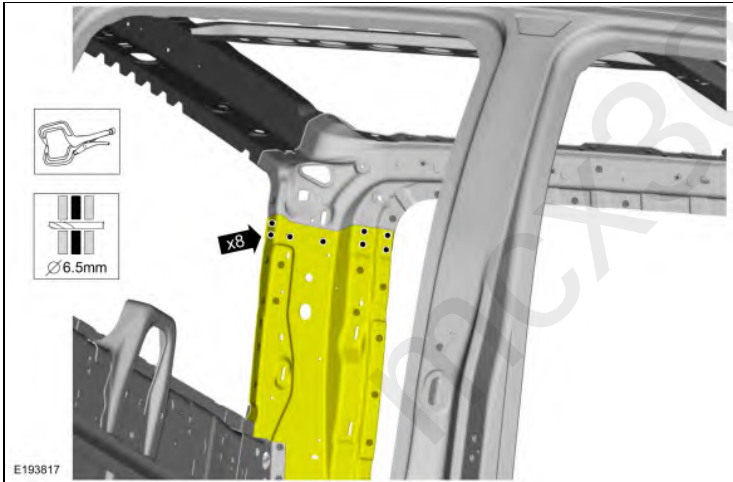
Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	-	-	-	-	W708777-S900C	-	-

Use the General Equipment: Blind Rivet Gun



9. Position, clamp and drill the C-pillar inner panel as indicated.
Use the General Equipment: Locking Pliers
Use the General Equipment: 6.5 mm Drill Bit



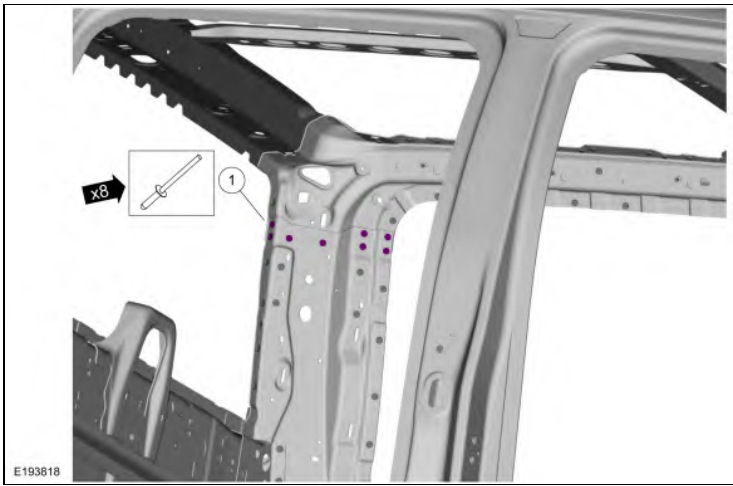
10. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm

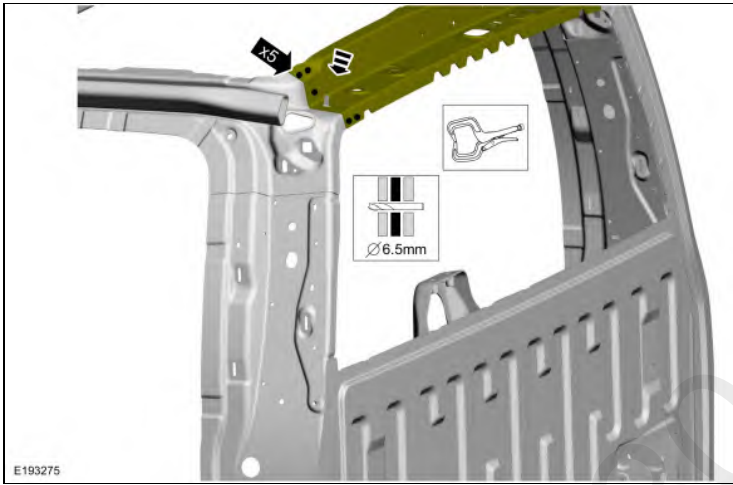
Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	-	-	-	-	W708777-S900C	W702512-S900	-

Use the General Equipment: Blind Rivet Gun



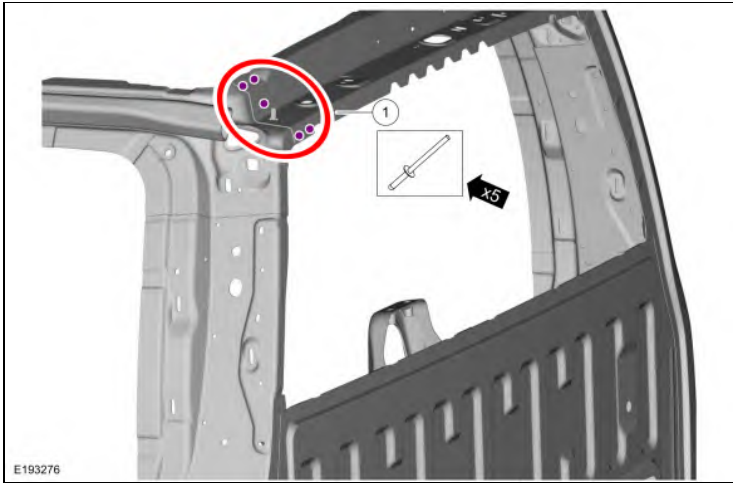
11. Position the rear window glass header panel, clamp in position and drill as indicated.
 Use the General Equipment: Locking Pliers
 Use the General Equipment: 6.5 mm Drill Bit



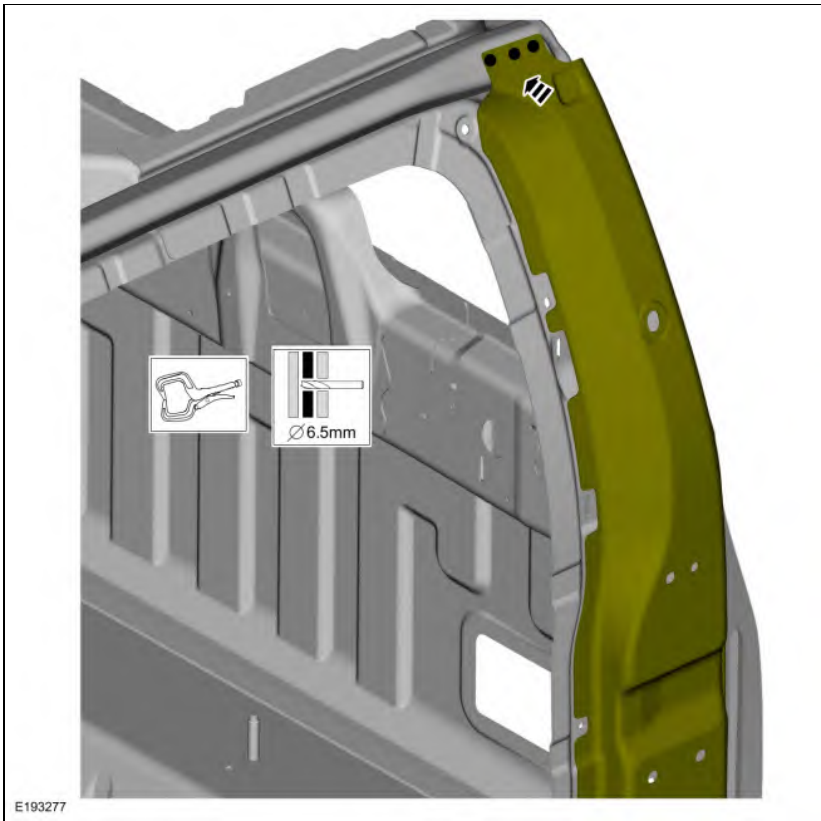
12. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.
NOTE: Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm
 Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	-	-	-	-	W707638-S900C	-	-

Use the General Equipment: Blind Rivet Gun



13. Position, clamp and drill the roof rail to C-pillar reinforcement as indicated.
 Use the General Equipment: Locking Pliers
 Use the General Equipment: 6.5 mm Drill Bit



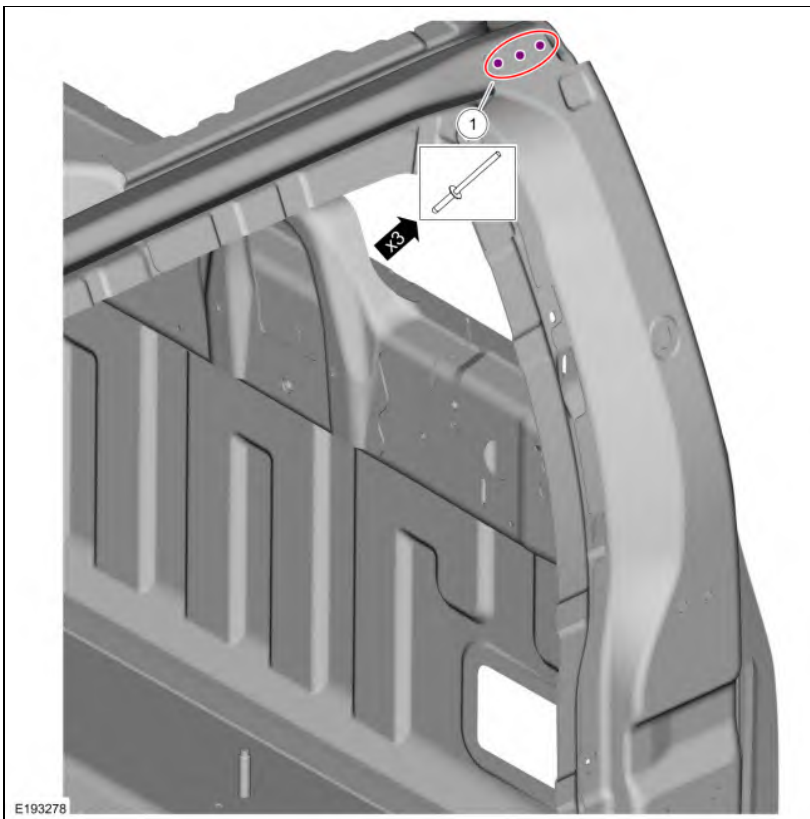
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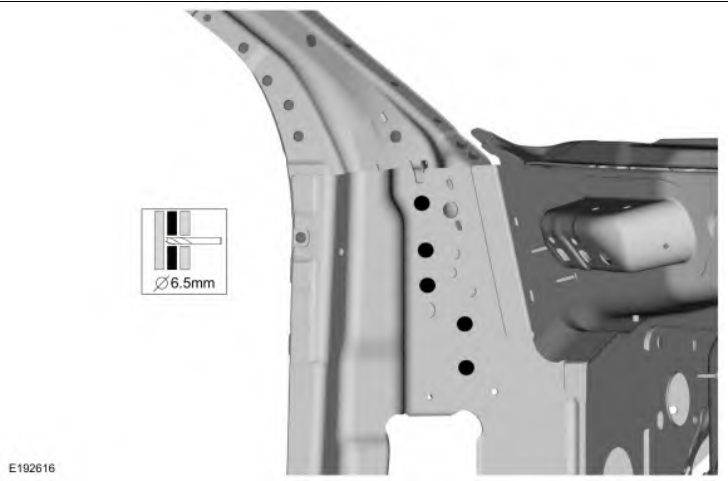
Install the fasteners.

Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	-	-	-	-	W708777-S900C	-	-

Use the General Equipment: Blind Rivet Gun



15. Install the A-pillar reinforcement.
Refer to: A-Pillar Outer Panel Section and Reinforcement (501-29 Side Panel Sheet Metal Repairs, Removal and Installation).
16. Install the body side outer panel.
Refer to: Body Panel Sectioning (501-26 Body Repairs - Vehicle Specific Information and Tolerance Checks, General Procedures).
Refer to: Joining Techniques (501-25 Body Repairs - General Information, General Procedures).
17. Install the roof outer panel.
Refer to: Roof Panel - Super Cab (501-28 Roof Sheet Metal Repairs, Removal and Installation).
Refer to: Roof Panel - Super Cab, Vehicles With: Roof Opening Panel (501-28 Roof Sheet Metal Repairs, Removal and Installation).
18. Metal finish using typical repair techniques.
19. **Seam sealing:**
All seams must be sealed to production level.
Material: Seam Sealer / TA-2-B, 3M, 08308, LORD Fusor® 805DTM
20. **NOTE:** Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm
Enlarge old FDS holes as indicated.
Use the General Equipment: 6.5 mm Drill Bit



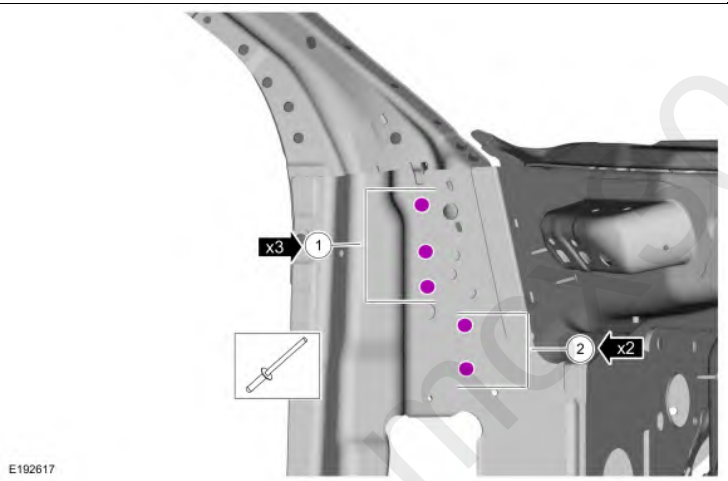
21. **NOTE:** SPR fasteners may not be placed directly over original SPR location. They must be placed adjacent to original location matching original quantity.

NOTE: Solid rivets or blind rivet fasteners may be used in place of SPR fasteners in original SPR location after enlarging hole to 6.5 mm

Install the fasteners.

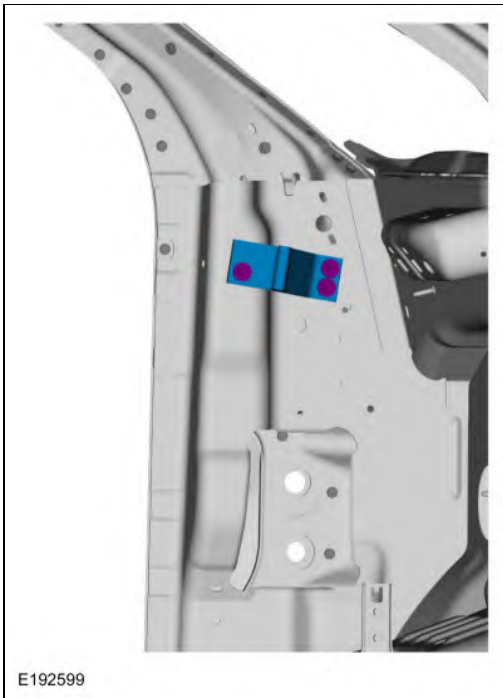
Item	SPR Number	SPR Code	Henrob® Mandrel	Pro-Spot® Mandrel	Blind Rivet	Solid Rivet	Rivnut®
1	-	-	-	-	W702512-S900C	-	-
2	-	-	-	-	W708777-S900C	-	-

Use the General Equipment: Blind Rivet Gun



22. Refinish the repair area using a Ford approved paint system.

23. Install the cross-car beam bracket and bolts.
Torque: 18 lb.ft (25 Nm)



24. Install the instrument panel.
Refer to: Instrument Panel (501-12 Instrument Panel and Console, Removal and Installation).
 25. Install the doors.
Refer to: Front Door - SuperCab (501-03 Body Closures, Removal and Installation).
Refer to: Rear Door - SuperCab (501-03 Body Closures, Removal and Installation).
 26. Install the fender and splash shield.
Refer to: Fender (501-02 Front End Body Panels, Removal and Installation).
Refer to: Fender Splash Shield (501-02 Front End Body Panels, Removal and Installation).
 27. Align the doors.
Refer to: Front Door Alignment - SuperCab (501-03 Body Closures, General Procedures).
Refer to: Rear Door Alignment - SuperCab (501-03 Body Closures, General Procedures).
 28. Repower the SRS.
Refer to: Supplemental Restraint System (SRS) Repowering (501-20B Supplemental Restraint System, General Procedures).
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