

Quarter Panel Replacement

Removal Procedure

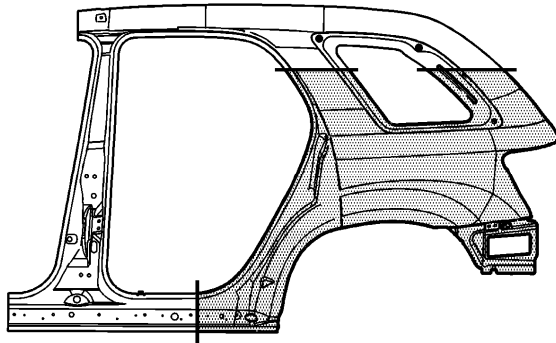
Important

Section in specified areas only. Sectioning outside of these areas may compromise the structural integrity of the vehicle. The door frame can be replaced at factory seams, but requires the removal of the windshield and the roof. The sectioning procedures have been developed as a more cost-effective alternative to complete replacement. The specific area to be sectioned is determined by the extent of the damage to the vehicle.

Important

When replacing panels that involve servicing of stationary glass, refer to [Urethane Adhesive Installation of Stationary Windows](#) in Stationary Windows before performing any priming or refinishing.

1. Disable the supplemental inflatable restraint (SIR) system. Refer to [SIR Disabling and Enabling Zones](#) in SIR.
2. Disconnect the negative battery cable. Refer to [Battery Negative Cable Disconnect/Connect Procedure](#) in Engine Electrical.

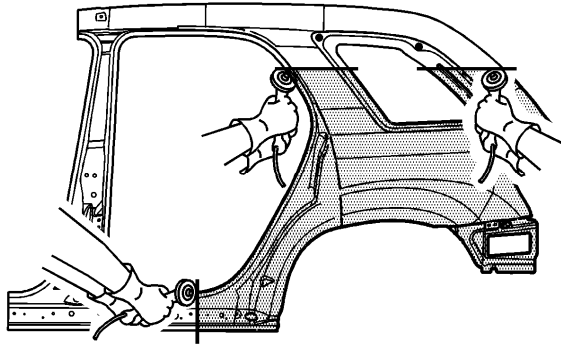


3. Remove all related panels and components.

4. Repair as much of the damage as possible to factory specifications. Refer to [Dimensions - Body](#) .

Caution: Foam sound deadeners must be removed from areas within 152.4 mm (6 in) of where flame is to be used for body repairs. When reinstalling foam sound deadeners, avoid inhaling fumes as bodily injury may result.

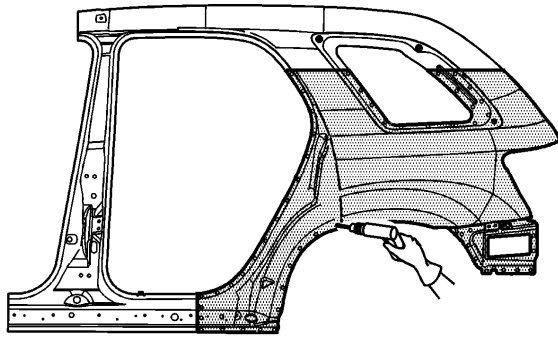
5. Note the location and remove the sealers and anti-corrosion materials from the repair area, as necessary. Refer to [Anti-Corrosion Treatment and Repair](#) in Paint/Coatings.



Important

Do NOT damage any inner panels or reinforcements.

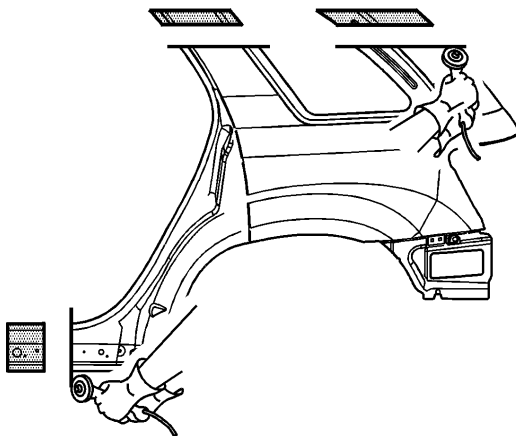
6. Cut the panel where sectioning is to be performed.
7. Perform additional sectioning procedures. Refer to [Body Side Panel Sectioning - Outer](#) .



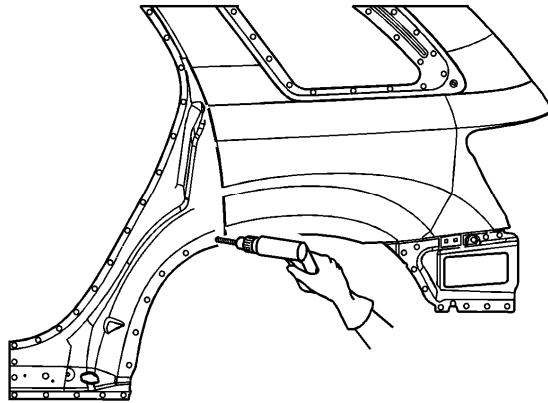
8. Locate and drill out all factory welds. Note the number and location of the welds for installations of the service part.
9. Remove the damaged quarter panel.

Installation Procedure

1. Cut the replacement quarter panel in corresponding locations to fit the original panel. The sectioning joint should be trimmed to allow $1\frac{1}{2}$ times the metal thickness at the sectioning joint.



2. Create two 50-mm (2-in) backing plates and one 100-mm (4-in) backing plate from the unused portion of the service part. Trim the backing plates as necessary to fit behind the sectioning joints where no reinforcements exist.
3. Drill 8-mm (5/16-in) plug weld holes along the sectioning cut on the remaining original part. Locate these holes 13 mm (1/2 in) from the edge and spaced 40 mm (1½ in) apart.

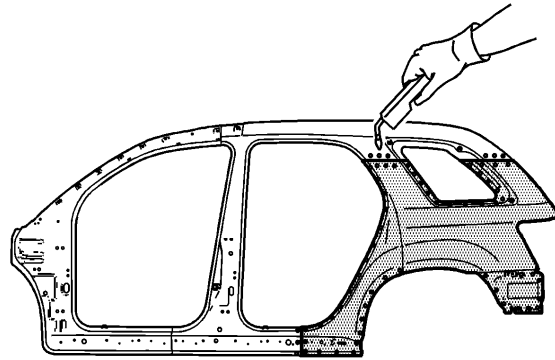


Important

In any area damaged beyond recognition, or if structural Weld-Thru adhesive is present, space the plug weld holes 40 mm (1½ in) apart.

4. Drill 8-mm (5/16-in) plug weld holes in the service part as necessary in the locations noted from the original panel and along the sectioning cut.
5. Prepare all mating surfaces, as necessary.
6. Apply GM-approved Weld-Thru Coating or equivalent to all mating surfaces. Refer to [Anti-Corrosion Treatment and Repair](#) .
7. Fit the backing plates halfway into the sectioning joints, clamp and plug weld to the vehicle.

8. Position the quarter panel.



9. Plug weld accordingly.

Important

To create a solid weld with minimum heat distortion make 25-mm (1-in) stitch welds along the seam with 25-mm (1-in) gaps between. Then go back and complete the stitch weld.

10. Stitch the weld sectioning joint.
11. Clean and prepare all welded surfaces.
12. Apply the sealers and anti-corrosion materials to the repair area, as necessary. Refer to [Anti-Corrosion Treatment and Repair](#) in Paint/Coatings.
13. Paint and repair the area. Refer to [Basecoat/Clearcoat Paint Systems](#) in Paint/Coatings.
14. Install all related panels and components.
15. Connect the negative battery cable. Refer to [Battery Negative Cable Disconnect/Connect Procedure](#) in Engine Electrical.
16. Enable the SIR system. Refer to [SIR Disabling and Enabling Zones](#) in SIR.