

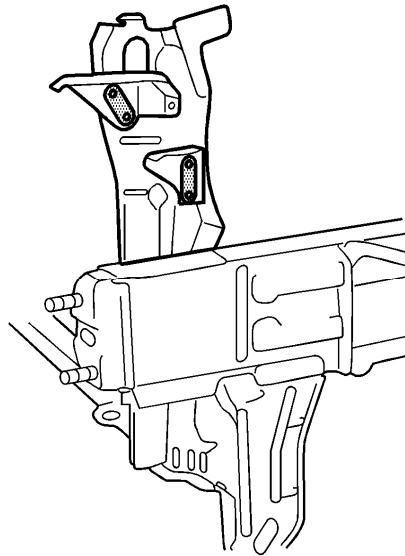
# Tie Bar Replacement - Left Side

## Removal Procedure

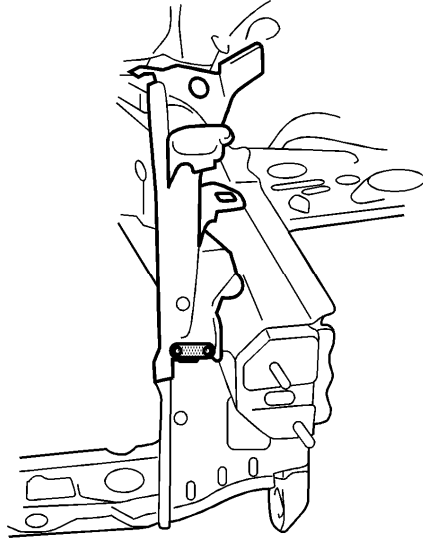
**Caution:** Refer to [Approved Equipment for Collision Repair Caution](#) in Cautions and Notices.

1. Disable the SIR system. Refer to [SIR Disabling and Enabling](#) in SIR.
2. Disconnect the negative battery cable. Refer to [Battery Negative Cable Disconnect and Connect Procedure](#) in Engine Electrical.
3. Remove all related panels and components.
4. Repair as much of the damage as possible. Refer to [Dimensions - Body](#).
5. Remove the sealers and anti-corrosion materials from the repair area, as necessary. Refer to [Anti-Corrosion Treatment and Repair](#) in Paint and Coatings.

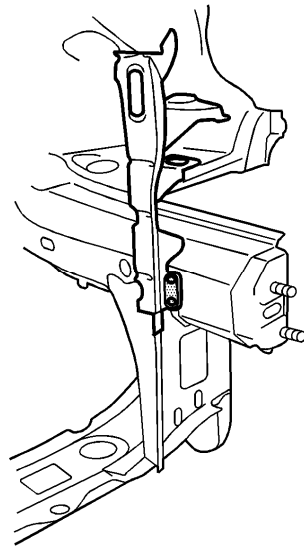
**Important:** Note the number and location of the factory welds for installation of the left tie bar.



6. Locate and drill out all the factory welds, attaching the front bumper stay and the front bumper mounting bracket to the left tie bar.



7. Locate and drill out all the factory welds to the front of the left tie bar.

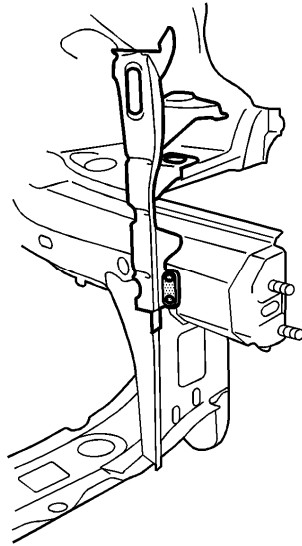


8. Locate and drill out all the factory welds to the inner of the left tie bar.
9. Remove the left tie bar.

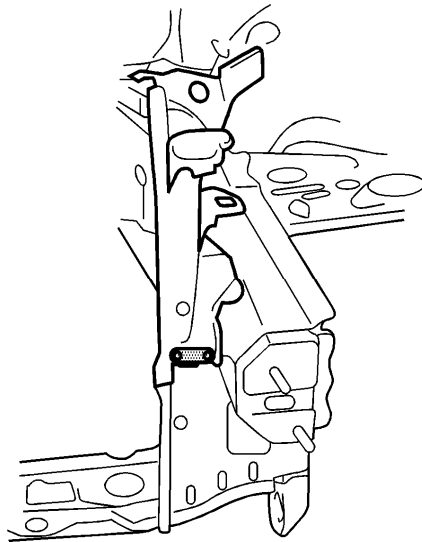
## Installation Procedure

**Important:** If the location of the original plug weld holes can not be determined, space the plug weld holes every 40 mm (1 1/2 in) apart.

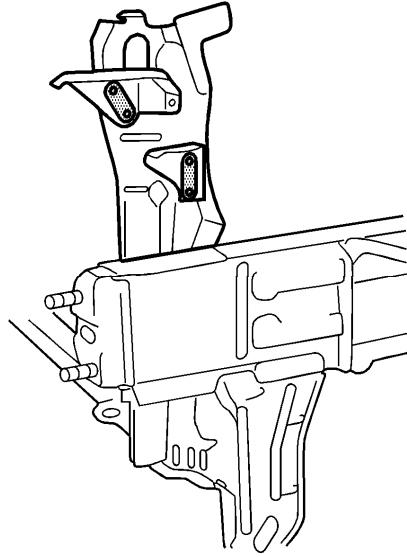
1. Drill 8-mm (5/16-in) plug weld holes in the service part ,as necessary, in the locations noted from the original panel.
2. Prepare all mating surfaces as necessary.
3. Apply GM-approved Weld-Thru Coating or equivalent to all mating surfaces. Refer to [Anti-Corrosion Treatment and Repair](#).
4. Position the left tie bar to the vehicle using 3-dimensional measuring equipment. Clamp the tie bar in place.



5. Plug weld the left inner tie bar accordingly.



6. Plug weld the left front of the tie bar accordingly.



7. Position and plug weld the front bumper stay and mounting bracket accordingly.
8. Clean and prepare all of the welded surfaces.
9. Install all of the related panels and components.
10. Apply the sealers and anti-corrosion materials to the repair area, as necessary.  
Refer to [Anti-Corrosion Treatment and Repair](#) in Paint and Coatings.
11. Paint the repaired area. Refer to [Basecoat/Clearcoat Paint Systems](#) in Paint and Coatings.
12. Connect the negative battery cable. Refer to [Battery Negative Cable Disconnect and Connect Procedure](#) in Engine Electrical.
13. Enable the SIR system. Refer to [SIR Disabling and Enabling](#) in SIR.