

# Tie Bar Assembly

## Removal Procedure

**IMPORTANT:** The front upper tie bar is serviced as 3 components: Right and left side tie bar reinforcements (2) and the upper tie bar (1).

1. Disable the SIR system. Refer to Disabling the SIR System in Cautions and Notices.
2. Disconnect the negative battery cable. Refer to Battery Negative Cable Disconnect/Connect Procedure in Cautions and Notices.
3. Remove all related panels and components.
4. Restore as much of the damage as possible.
5. Remove the sealers and anti-corrosion materials from the repair area, as necessary. Refer to Anti-Corrosion Treatment and Repair in Cautions and Notices.
6. Locate, mark, and drill out all factory welds attaching the upper tie bar (1) and reinforcements (2) if necessary.
7. Remove the damaged tie bar (1).

## Installation Procedure

1. Prepare the mating surfaces as necessary.
2. Drill 8 mm (5/16 in.) plug weld holes on the service part as necessary in the locations noted from the original panels.  
**IMPORTANT:** If the original locations are damaged beyond recognition, locate holes for plug welding 40 mm (1-1/2 in.) apart.
3. Temporarily position the upper tie bar (1) and reinforcements (2) on the vehicle.
4. Check location using 3-dimensional measuring equipment.
5. Plug weld accordingly.
6. Clean and prepare welded surfaces.
7. Apply the sealers and anti-corrosion materials to the repair area, as necessary. Refer to Anti-Corrosion Treatment and Repair in Cautions and Notices.
8. Paint the repaired area. Refer to Basecoat/Clearcoat Paint Systems in Cautions and Notices.
9. Install all of the related panels and components.
10. Connect the negative battery cable. Refer to Battery Negative Cable Disconnect/Connect Procedure in Cautions and Notices.
11. Enable the SIR system. Refer to Enabling the SIR System in Cautions and Notices.

