

Roof Bow Service

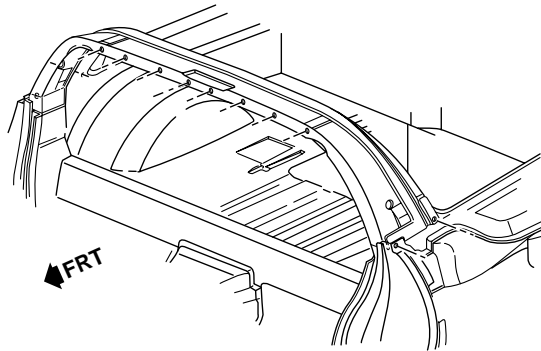


Fig. 3.49 — Mild Steel Roof Bow

The Roof Bow is made from a one piece mild steel tube that is shaped by hydroforming (Fig. 3.49). The roof bow is located and MIG welded to the inner and outer lock pillar panels. The roof bow should be three-dimensionally located and MIG welded at factory joints when replaced. Use 8mm (5/16 in) plug welds to replace resistance welds at the lock pillar inner panel.

The Roof Bow Cover is made of Sheet Moulded Compound (SMC), and is bonded to the Roof Bow with structural adhesive (Fig. 3.50). The Roof Bow Cover overlaps the Rear Compartment Panel Frame, which should be sectioned if the Roof Bow Cover is not damaged (*Refer to Rear Compartment Panel Frame Service Procedures*).

Important: Use US Chemical and Plastics 82014B System 2000 Structural Adhesive, a PLIOGRIP® adhesive manufactured by Ashland Chemical Company, or equivalent. Note the 9 minute working time and 1 hour cure time.

Notice: Before permanent installation of either the Roof Bow or the Roof Bow Cover be sure to establish location for proper fit and finish of all adjacent panels.

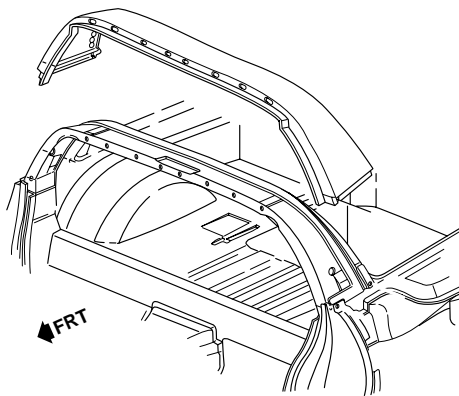


Fig. 3.50 — SMC Roof Bow Cover

Removal of the Roof Bow Cover requires the removal of the screws attaching the front and rear weatherstrips through the cover to the hydroformed roof bow (Fig. 3.51). Apply heat to the bonded area and break the adhesive to remove the Roof Bow Cover. (*Follow SMC Repair Procedures.*)

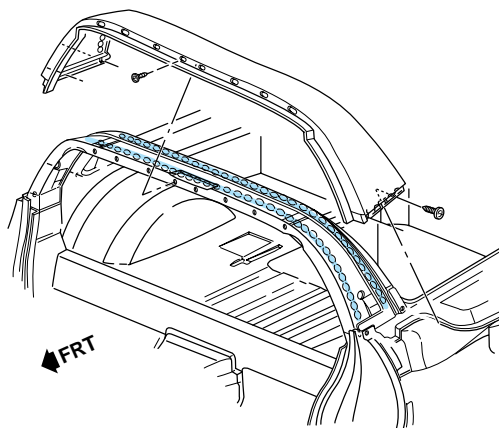


Fig. 3.51 — Adhesive Bead Location