

SECTION 13 FOLDING TOP

INDEX

Subject	Page	Subject	Page
Folding Top Trim Assembly - Complete	13- 1	Folding Top Lift Cylinder	13-33
Removal of Top and Back Curtain		Filling of Hydro-Lectric Reservoir	13-33
Trim Assembly	13- 1	Manual Lift Assembly - Manually Operated Tops	
Installation of Top and Back Curtain		Description	13-35
Trim Assembly	13- 4	Removal and Installation	13-35
Folding Top Trim - Less Back Curtain	13-14	Folding Top Catch Clips	13-36
Removal of Folding Top Trim Cover	13-14	Folding Top Adjustments - "A" Styles	13-36
Installation of Folding Top Trim Cover	13-17	Adjustment of Folding Top Front Roof Rail	
Back Curtain Assembly - Complete	13-20	Wedge Plate	13-36
Removal	13-20	Adjustment of Top at Front Roof Rail	13-36
Installation	13-22	Front Roof Rail Lock Assembly	13-38
Folding Top Silencer	13-24	Front Roof Rail Lock Adjustment	13-38
Removal	13-24	Adjustment of Top Control Link	13-39
Installation	13-26	Adjustment of Top at Male Hinge	13-39
Hydro-Lectric System	13-26	Trouble Shooting Chart	13-39
Description	13-26	Folding Top Adjustments - "B & C" Styles	13-42
Motor and Pump Assembly	13-26	Description	13-42
Reservoir Tube	13-28	Adjustment of Folding Top Front Roof	
Operation of Folding Top	13-28	Rail Guide	13-42
Operation of Pump Assembly	13-28	Adjustment of Folding Top at Front Roof Rail	13-42
Fluid Control Valve	13-29	Front Roof Rail Lock Assembly	13-43
Mechanical Checking Procedure	13-29	Front Roof Rail Lock Adjustment	13-43
Electrical Checking Procedure	13-30	Adjustment of Top Control Link Adjusting Plate	13-43
Check for Current at Folding Top		Adjustment of Top at Male Hinge Support	13-44
Control Switch.	13-30	Trouble Shooting Chart	13-45
Checking Folding Top Control Switch	13-30	Folding Top Adjustments - "F" Styles	13-49
Checking Switch to Motor Lead Wires	13-30	Description	13-49
Checking Motor Unit	13-30	Adjustment of Folding Top at Front Roof Rail	13-49
Hydraulic Checking Procedure	13-31	Front Roof Rail Lock Assembly	13-49
Check Hydraulic Fluid Level in Reservoir	13-31	Front Roof Rail Lock Adjustment	13-49
Checking Operation of Lift Cylinders	13-31	Adjustment of Top Control Link	13-49
Checking Pressure at the Pump	13-32	Adjustment of Top at Male Hinge	13-49
		Trouble Shooting Chart	13-51

FOLDING TOP TRIM ASSEMBLY (COMPLETE)

All convertible top trim cover assemblies incorporate a spring-loaded top material hold-down cable along the right and left side roof rails. The cables are installed through a retaining pocket in the top material and are fastened at the front and rear side rails by attaching screws. The cables are designed to hold the top material tight against the side roof rail stay pads, thus minimizing air leakage between the top material and the stay pads.

On certain styles the back curtain assemblies incorporate a hard, curved glass back window. This back window is dielectrically bonded to the vinyl back curtain material and is not serviced as a separate item. On other styles, the back curtain incorporates a pliable plastic window.

REMOVAL OF FOLDING TOP AND BACK CURTAIN TRIM ASSEMBLY

1. Place protective covers on all exposed panels which may be contacted during procedure.

2. Remove rear seat cushion and back.

CAUTION: Disconnect rear seat speaker wire if present.
3. Remove right and left folding top compartment side trim panels.
4. Remove right and left side roof rail rear weatherstrip attaching screws; then remove weatherstrips from rails.
5. Detach folding top quarter flaps from side roof rear rails.
6. On styles equipped with back glass support rods, disengage right and left rods from back curtain (Fig. 13-1).
7. Lower top to "stacked" position.
8. Remove remaining side roof rail weatherstrip attaching screws; then remove weatherstrips from rails.

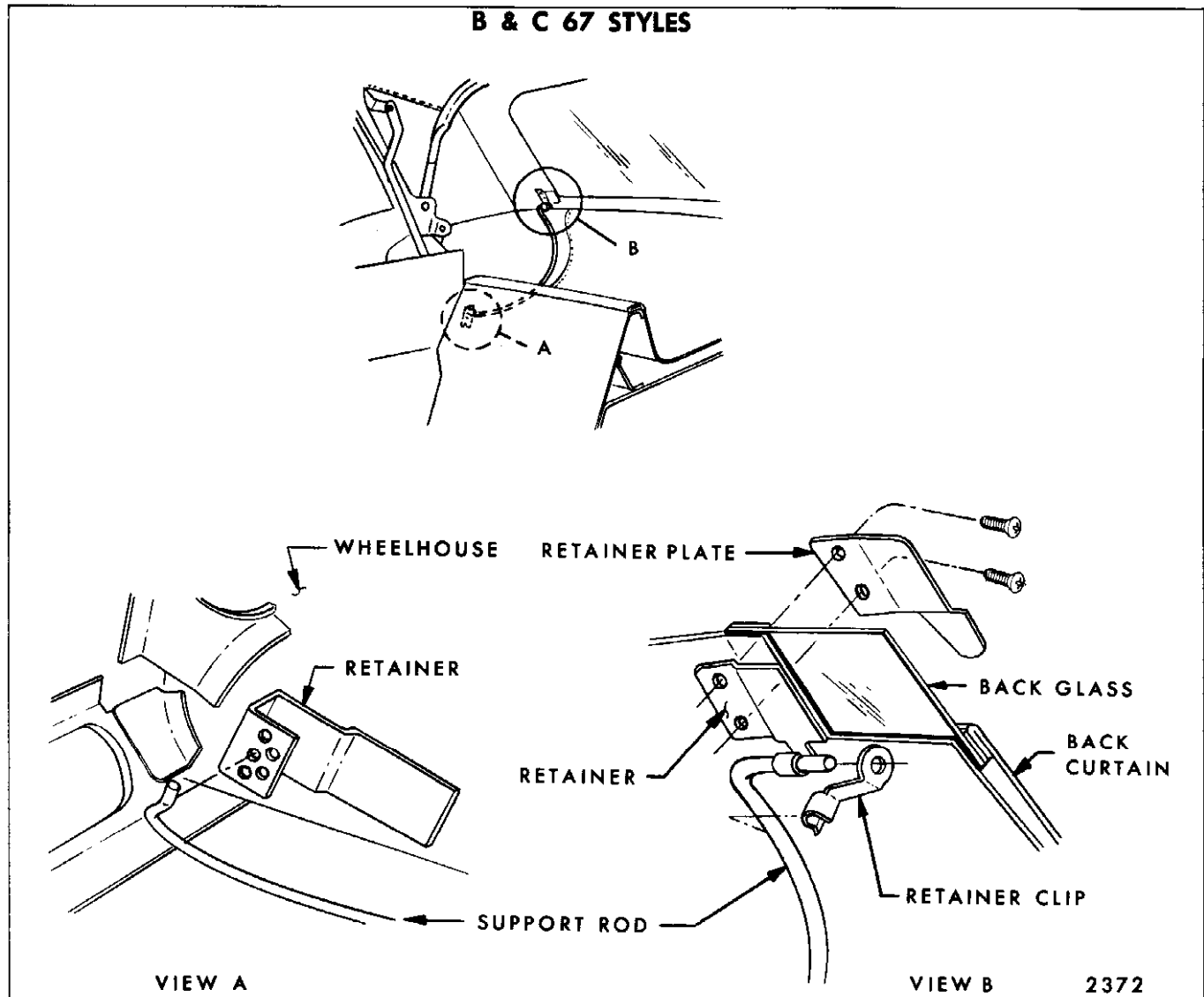


Fig. 13-1—"B & C" Body Back Glass Support Rod Attachments

9. Remove front roof rail front and rear weatherstrips.
10. Detach top material from front roof rail (Fig. 13-2).
11. Detach top material flaps from side roof front rail (Fig. 13-2).
12. Raise top and lock to windshield header.
13. At right and left side roof front and rear rails, remove hold-down cable front and rear attaching screws. (See Views "A and B" in Fig. 13-3).
14. Pull both hold-down cables forward until cables are completely removed from top material retaining pockets.
15. At underside of front bow, remove screws securing listing pocket retainer to bow (Fig. 13-4).
16. Push top material upward sufficiently until retainer is disengaged from bow; then remove retainer from listing pocket.
17. Detach folding top compartment bag from rear seat back panel, thus exposing rear quarter and rear trim stick attaching bolts. Forward end of top compartment bag may be tied or wired to center roof bow to provide ready access to attaching bolts (Fig. 13-5).
18. At each rear quarter area remove attaching bolts securing rear quarter trim stick assembly to rear quarter inner panel (Fig. 13-6).

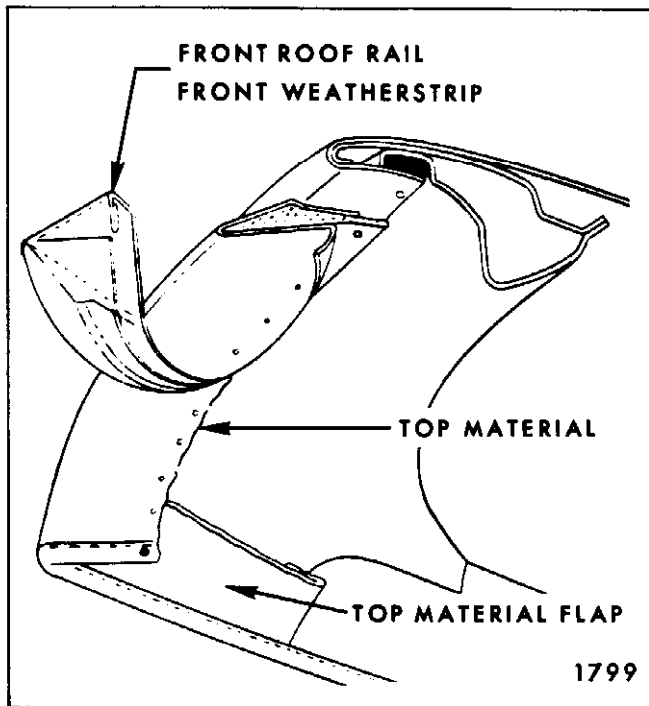


Fig. 13-2 - Top Material At Front Roof Rail

19. Remove rear trim stick attaching bolts; then lift trim assembly with attached quarter and rear trim sticks on top of rear compartment front panel.

20. To establish relationship of right and left inner vertical edge of old top material to back curtain assembly at rear trim stick location, mark back curtain material at both locations with a grease pencil (Fig. 13-7). Reference marks should be transferred to new back curtain when step 6 of installation procedure is performed.

NOTE: Reference marks must be made below upper edge of rear trim stick.

21. To establish relationship of old top material to its position on rear trim sticks, cut selvage end of top material off flush with lower edge of trim sticks.

CAUTION: When cutting top material, be careful not to cut lower selvage edge of back curtain assembly.

22. Using a pencil, mark both ends of rear and rear quarter trim sticks on vinyl surface of top material (Fig. 13-8). Reference marks for trim sticks should be transferred to new top material when step 28 of installation procedure is performed.

23. Remove screw securing escutcheon clip at each end of wire-on binding on rear bow. Remove wire-on binding from rear bow. Detach top material from rear roof bow and from trim sticks, then remove top cover assembly (Fig. 13-9).

24. Lock top to windshield header. Install radius end of each adjustable spacer stick to fit against center roof bow. Install opposite end of spacer stick so that metal plate fits under rear roof bow. Spacer sticks should be installed along inboard edge of side stay pad (Fig. 13-10).

NOTE: The approximate dimension for location of spacer sticks, measuring outboard from centerline dimple of rear roof bow is approximately 17" for all body style (See Dimension "Y" in Fig. 13-10).

While exerting rearward pressure on rear bow to draw side stay pads taut, extend spacer sticks until they fit snugly between center bow and rear roof bow, then tighten wing nuts.

25. Spacer sticks may be fabricated as shown in Figure 13-11.

26. Temporarily tie or tape rear bow to rear side roof rails. (See Fig. 13-10.) Detach nylon webbing, side stay pads and back curtain assembly from rear bow.

27. Remove rear trim stick with attached back curtain assembly and top compartment bag from body and place on clean, protected surface.

28. Remove right and left nylon webbing from rear trim stick on styles so equipped.

29. Using chalk, or other suitable material, mark ends of rear quarter trim sticks on vinyl surface of back curtain material (Fig. 13-12). Reference marks for trim sticks should be transferred to new back curtain material when step 6 of installation procedure is performed.

30. Remove back curtain assembly from rear and rear quarter trim sticks.

31. Remove side stay pads. Stay pads are attached to front roof rail and front and rear bows with tacks; to center bow with screws.

NOTE: On Cadillac styles, silencer assembly must be removed prior to side stay pads. For Removal and Installation procedure, refer to Silencer Assembly section.

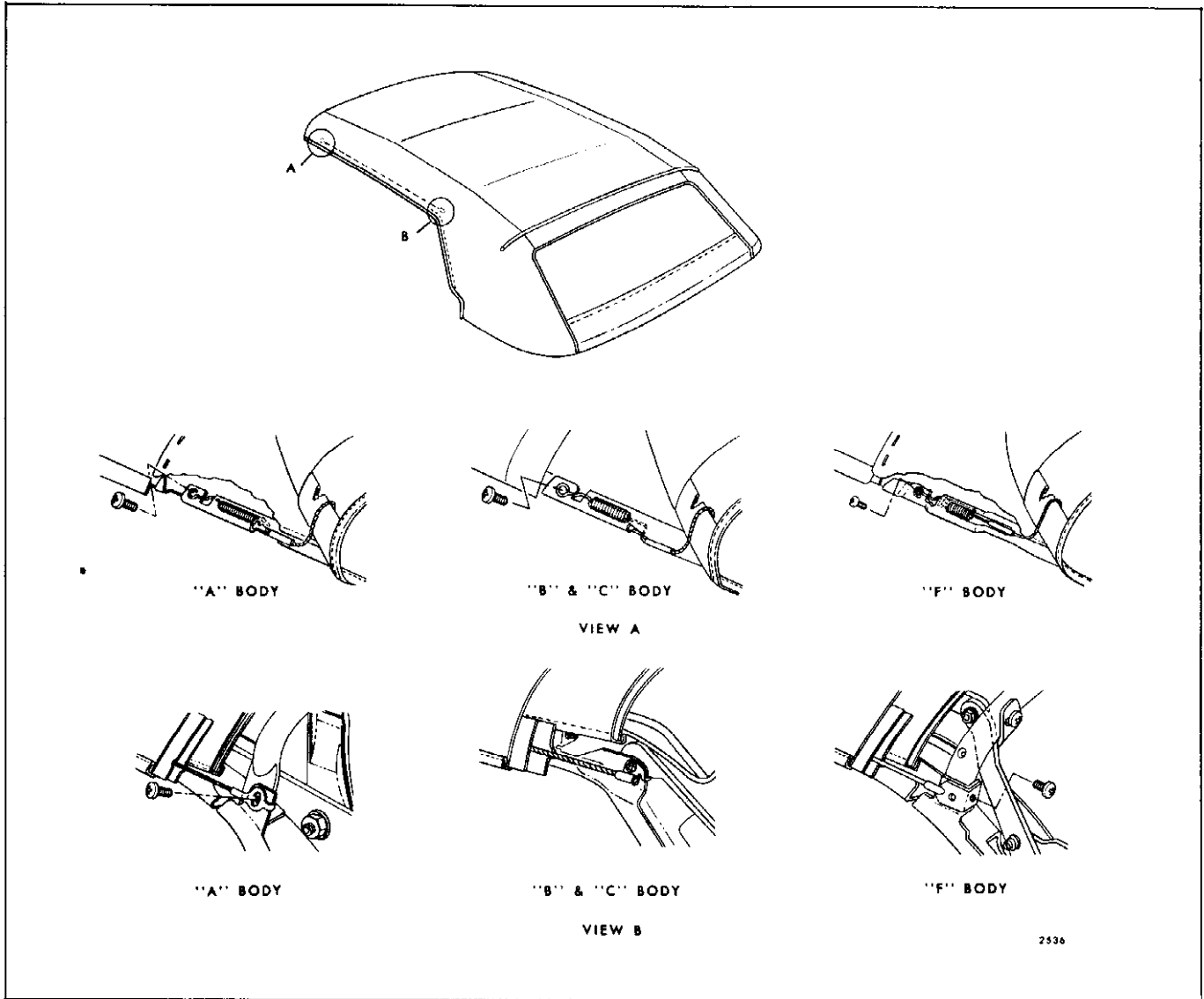


Fig. 13-3 — Convertible Top Material Hold Down Cable

INSTALLATION OF FOLDING TOP AND BACK CURTAIN TRIM ASSEMBLY

1. If new top is being installed but it was impossible to perform step 24 of removal procedure, pre-set spacer sticks to shortest length and install between center and rear roof bow (Fig. 13-10). Adjust sticks so that dimension "X" in Figure 13-10 (measured along spacer stick from front upper rolled edge of rear roof bow to center of center bow) is 16 1/16" on "B & C" Styles, 13 3/16" on "F" Styles and 15 1/4" on "A" Styles. Tie or tape rear bow to rear side roof rails.

NOTE: In all cases, above dimension may be changed slightly within tolerances to corres-

pond with new top after tryout. Dimension should be equal on both right and left sides.

2. Tack side stay pads in conventional manner to rear roof bow and stay tack pads to front roof rail. Make sure inboard edge of pad is properly aligned within depressions in bow and rail. Stay tack pad to front bow. Install pad to center bow with screws. Make sure inboard edge of pad is properly aligned within depression in bow. Install stay pad wadding in conventional manner using an approved trim cement. (Fig. 13-13 for "A" Body, Fig. 13-14 for "B" Body, Fig. 13-15 for "C" Body and Fig. 13-16 for "F" Body.)
3. Trim salvage end of side stay pads just forward of rear rolled edge of rear roof bow (Fig. 13-13 for "A" Body, Fig. 13-14 for "B"

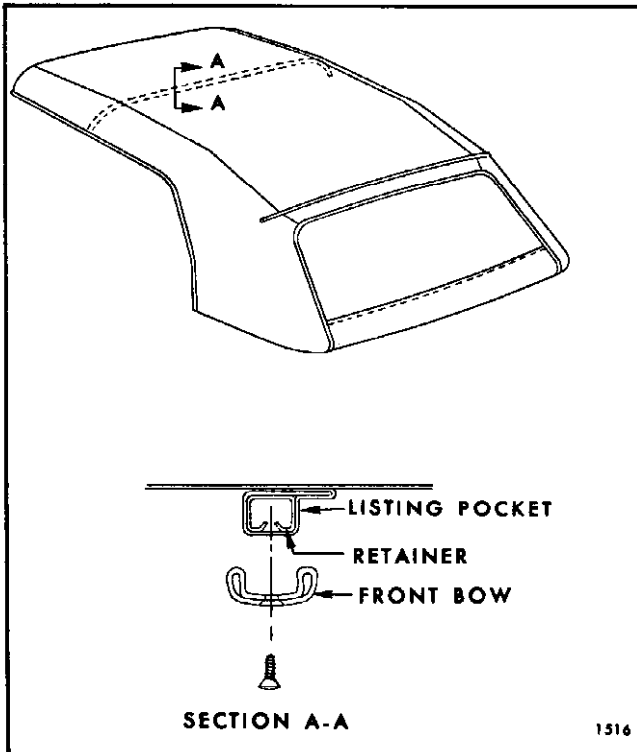


Fig. 13-4 - Listing Pocket Retainer

Body, Fig. 13-15 for "C" Body and Fig. 13-16 for "F" Body).

4. Distance from center of center bow to rolled forward upper edge of rear roof bow is 16 1/16" for "B & C" Styles, 13 3/16" for "F" Styles and 15 3/4" for "A" Styles.

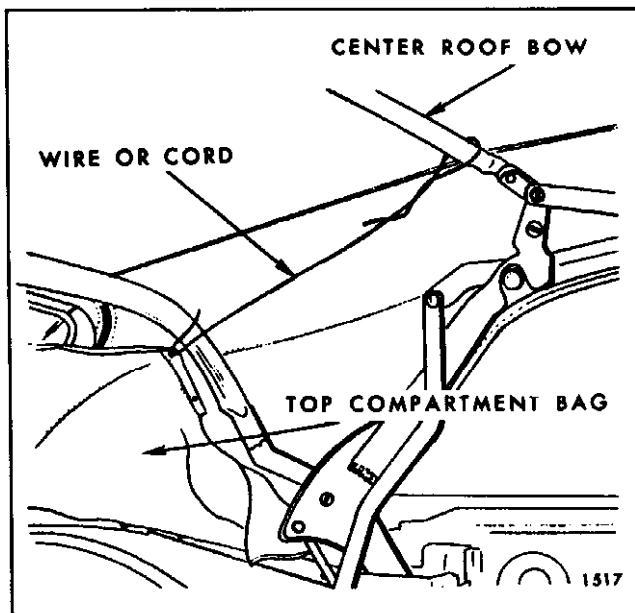


Fig. 13-5 - Top Compartment Bag Tied to Center Bow

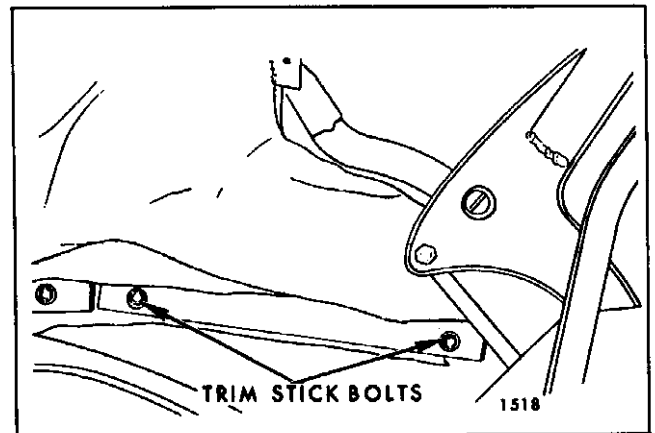


Fig. 13-6 - Rear Quarter Trim Stick

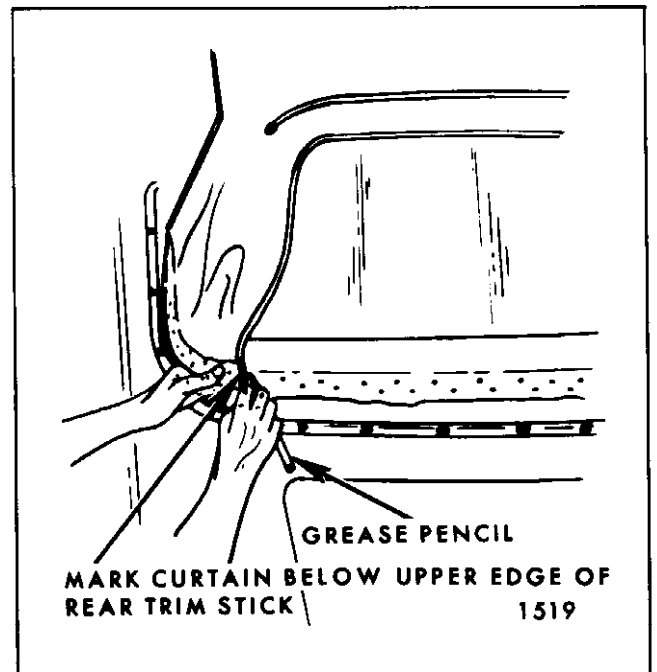


Fig. 13-7 - Locating Edge of Top Material

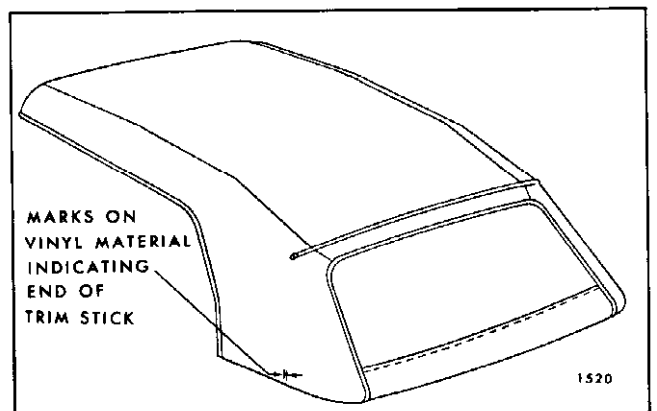


Fig. 13-8 - Marking Top Material

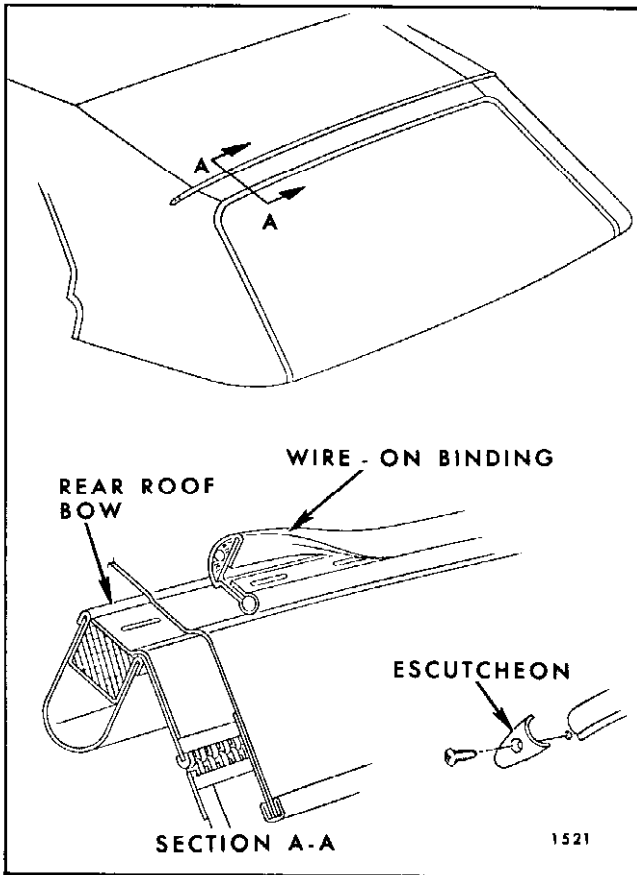


Fig. 13-9 - Rear Roof Bow Wire-On Binding

NOTE: Dimension may vary $\pm 1/4$ " after back curtain has been completely installed. Readjust spacer sticks and side roof rail pads as required if rear bow does not come within this position range.

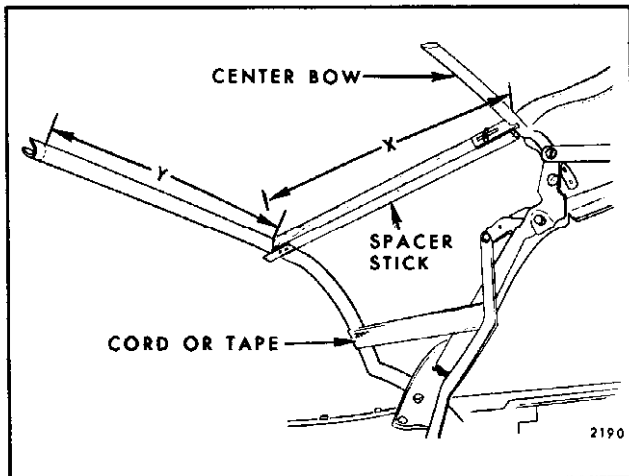


Fig. 13-10 - Spacer Stick Installation

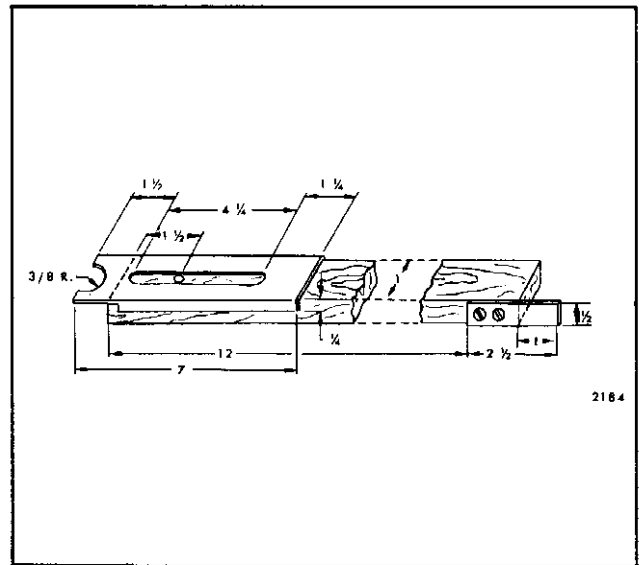


Fig. 13-11 - Spacer Stick Dimensions

MATERIAL PER STICK

- Wood - $1/2 \times 1 \times 14-1/2$
- Steel - $1/32 \times 1/2 \times 2-1/2$
- Steel - $1/32 \times 1-1/2 \times 7$
- 2 Screw #6 $\times 1/2$ "
- Bolt $1/4 - 20 \text{ UNC} - 2A \times 1$ "
- Wingnut $1/4 \times 20 \text{ UNC} - 2B$
- 2 Washers $1/4$ " I.D.

5. Place new back curtain assembly on clean covered work bench with interior surface of back window facing down.
6. Carefully lay removed back curtain assembly over new back curtain assembly. Using a grease pencil, mark vinyl surface of new back curtain using marked edge of old curtain as guide. (See steps 20 and 29 of removal procedure.) In addition, mark trim stick bolt hole locations on new back curtain assembly.

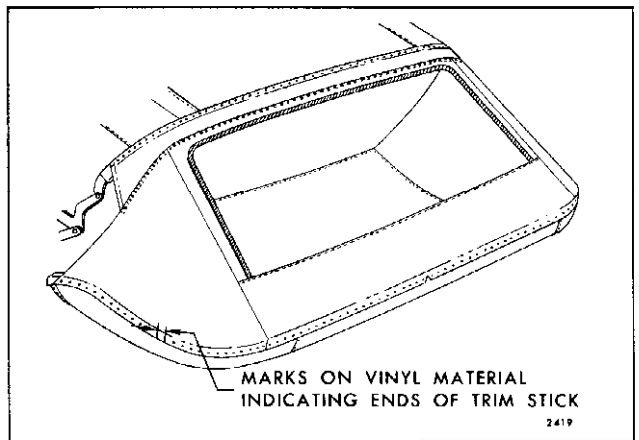


Fig. 13-12 - Marking Back Curtain

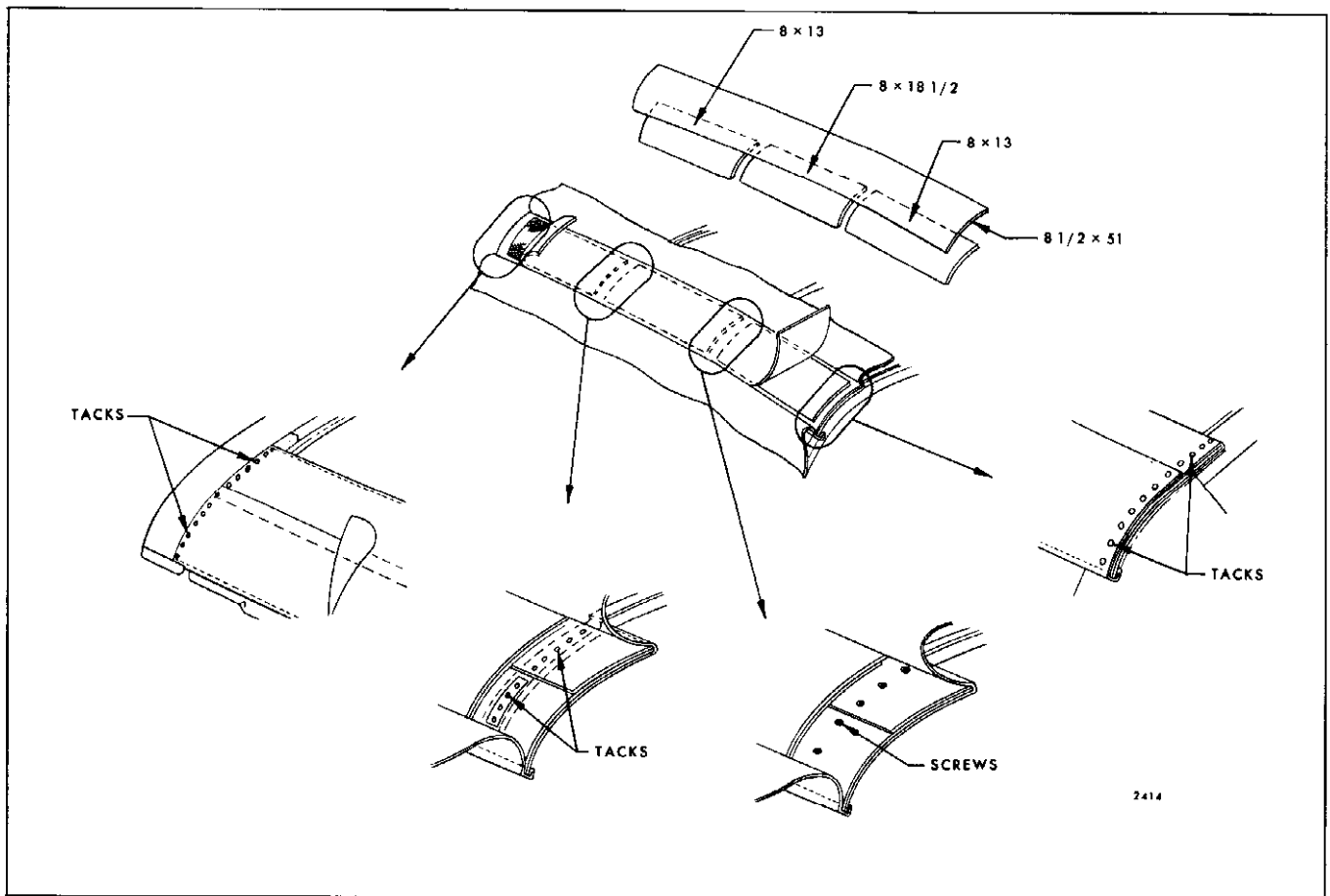


Fig. 13-13—"A" Body Side Stay Pad Installation

IMPORTANT: Where a grease pencil or similar material is used for marking back curtain, marks must be below trim stick so that they will not show after curtain is installed in body.

7. Center and position back curtain assembly to rear trim stick over attached top compartment bag.
- NOTE:** Notch in back curtain material at lower edge indicates centerline of back curtain assembly (Fig. 13-17). In addition, back curtain lower edge should extend approximately 1/2" below lower edge of trim sticks.
8. Tack curtain to rear trim sticks (Fig. 13-17).
9. Tack remainder of back curtain material to rear quarter trim stick (Fig. 13-18).
10. Tacks securing back curtain assembly to trim sticks should be placed close to each side of every bolt hole in trim sticks; then pierce or punch back curtain assembly for each trim stick bolt.
11. On all "B, C & A" Styles, tack nylon webbing to rear trim stick. Forward edge of webbing should be even with edge of rear trim stick. New webbing may be cut from a piece of non-staining type webbing 2" x 24" for "A" Bodies and 2" x 27" for "B & C" Bodies. Excess webbing should be trimmed off at rear trim stick, 1/2" above back curtain lower edge.
12. Inspect mastic type trim stick fillers to body below pinchweld for sufficient seal at bolt holes (Fig. 13-19).
13. Secure back curtain with tacks to rear roof bow to prevent damage.
14. Install rear trim stick with attached back curtain assembly into body.
- NOTE:** Make sure that all trim stick bolts are driven completely in to represent finished condition.
15. Working from body center progressively out-board to right and left sides, tack back curtain to rear bow. Make sure all fullness has been

drawn from curtain material (Fig. 13-20). Any excess material at rear bow may be carefully trimmed.

16. Check contour of back curtain assembly at rear roof bow and at pinchweld molding.
17. Where required, place reference chalk mark on outer surface of back curtain along pinchweld finishing molding. Re-adjust back curtain assembly as required (Fig. 13-21).
18. Where required, adjust side stay pads; then tack side stay pads to front roof rail and front bow. Attach side stay pads to center bow with screws. Trim selvage end of side stay pads at front roof rail. Install stay pad top covering material in conventional manner using nitrile or neoprene type trim cement.
19. On "B, C & A" Styles only, tack nylon webbing to rear roof bow. Outboard edge of webbing should be installed even with outboard

edge of side roof rail pad. Fold excess webbing rearward and tack to rear bow. Remove excess by trimming webbing just forward of rear rolled edge of rear roof bow.

CAUTION: Do not cut back curtain or side stay pad material.

20. Detach rear trim stick with attached back curtain assembly from body.
21. Lay out new top material on clean protected surface with outer layer of material exposed.
22. Using a pencil, mark top material (mark should be approximately 1/2" in length) at deck seam 5-1/4" on "B, C & F" and 4-1/4" on "A" Styles from edge of top material upper valance binding. (See dimension "X" in Fig. 13-22).
23. Fold new top material in half so that inner lining of top material is exposed (Fig. 13-23). Install a 6" piece of tape on inner surface at

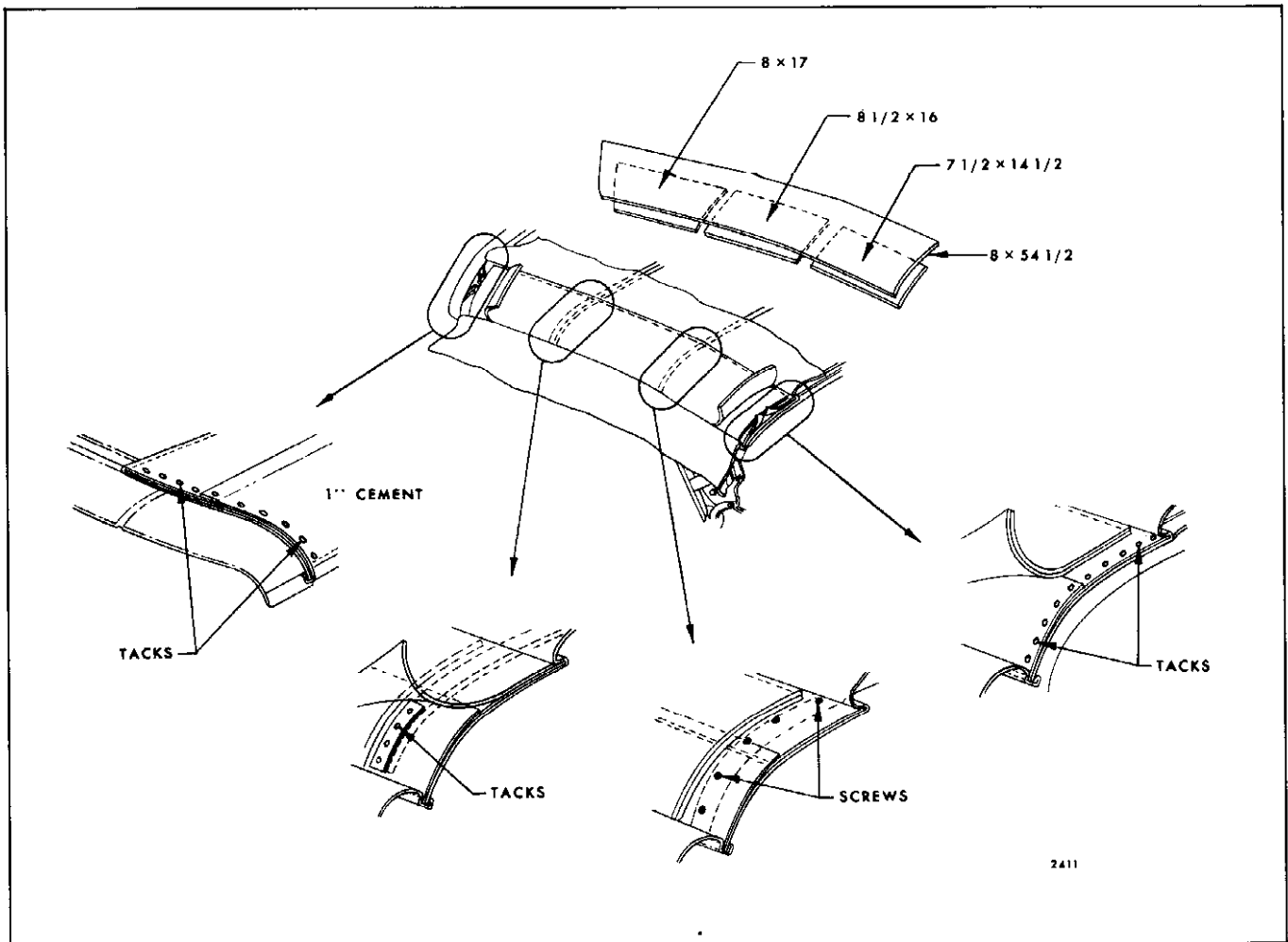


Fig. 13-14—"B" Body Side Stay Pad Installation

centerline fold of new top material (Fig. 13-23). Using a pencil, mark the approximate centerline of new top material along entire length of tape.

IMPORTANT: Be sure mark will be visible inside of body after new top is installed on convertible top framework.

24. Along forward surface of rear roof bow install a 1" piece of tape at centerline dimple of rear roof bow. Using a pencil, mark centerline of rear bow on tape (Fig. 13-24.)
25. Remove rear bow spacer sticks and positioning tape or cord.
26. Check position of rear roof bow in relation to new folding top trim assembly by placing new top trim over folding top framework. With quarter flaps properly folded over rear side roof rails (edge of rails should match stitch lines of quarter flap seams), marks on deck seam should be in center of rear roof bow.

NOTE: The deck seam mark will vary slightly ($\pm 1/4"$) depending upon position of rear roof bow. Also check centerline mark on inner lining of top material. Mark should correspond to centerline mark on rear roof bow.

27. Remove top trim material.
28. Carefully lay removed top, which was marked at lower edge of trim stick prior to removal, over new top. Align old top with new top. Using a pencil, mark vinyl surface of new top using marked edge of old top as guide. Also mark edges of trim sticks on vinyl surface of new top material. (See steps 21 and 22 of removal procedure).
29. Position top trim on framework and center assembly both fore and aft and side to side.
30. Install listing pocket retainer into listing pocket.
31. Center retainer in listing pocket; then, install

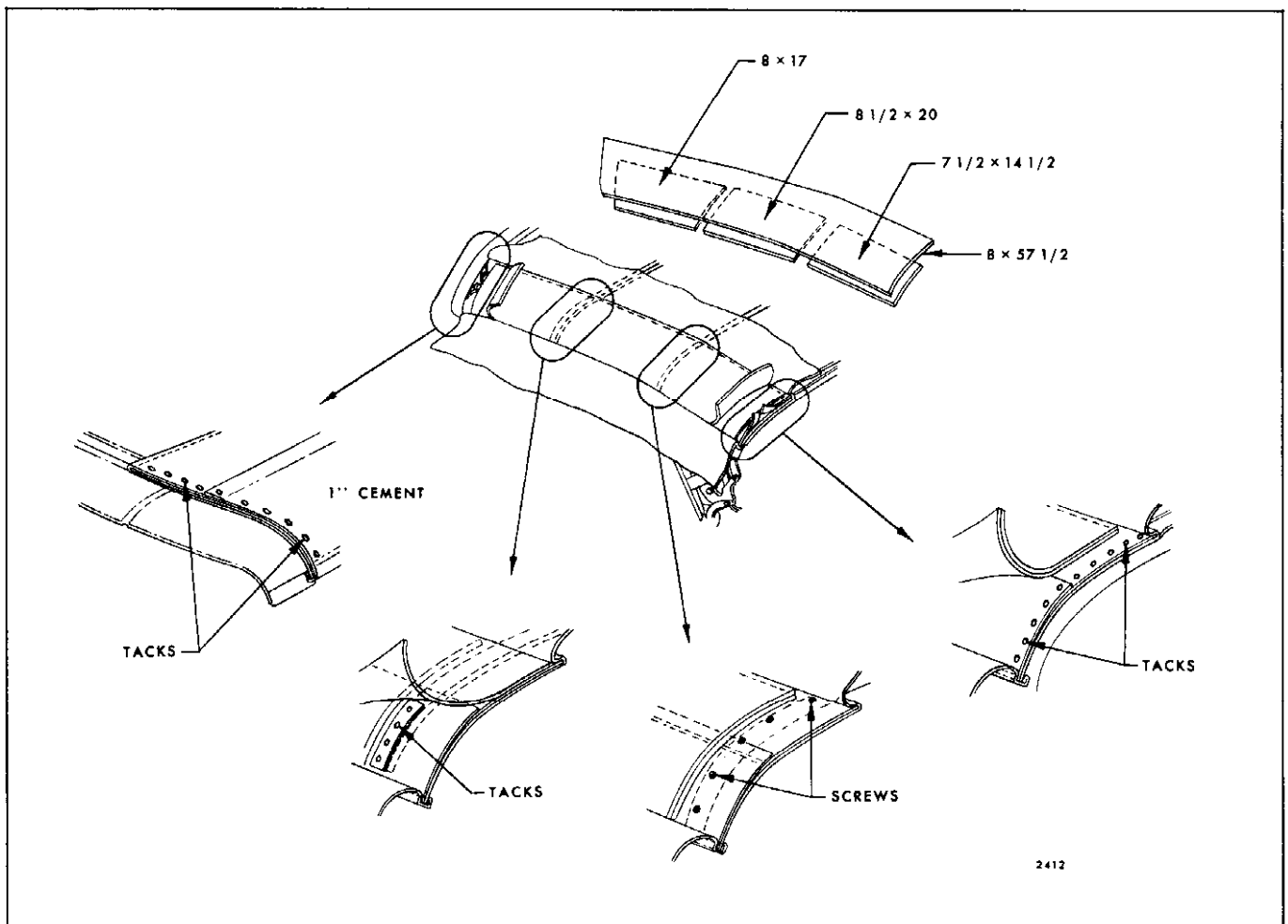


Fig. 13-15 — "C" Body Side Stay Pad Installation

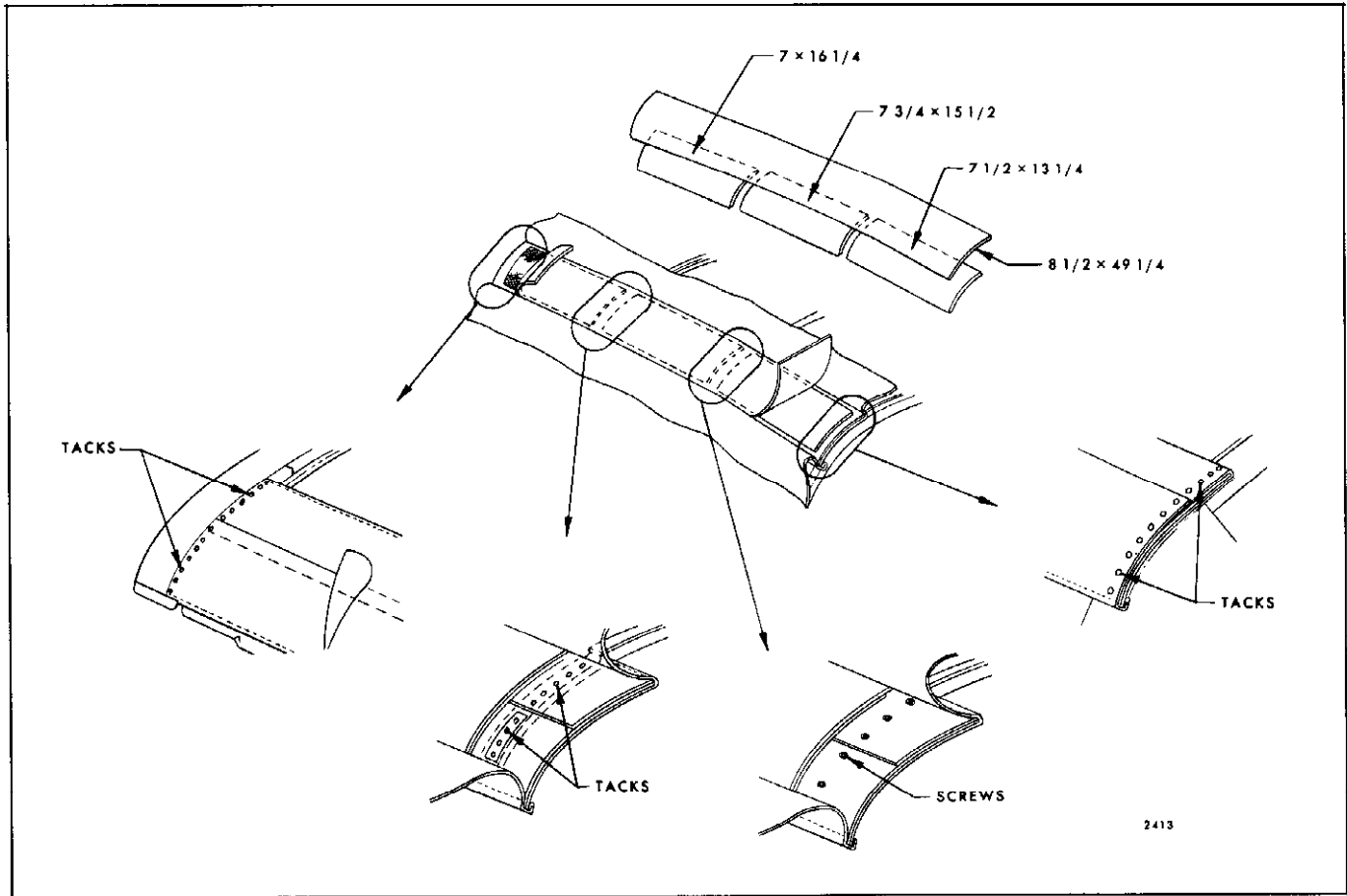


Fig. 13-16 — "F" Body Side Stay Pad Installation

retainer into front bow.

NOTE: Retainer should be evenly centered between side roof rail stay pads.

- 32. Install front bow to listing pocket retainer attaching screws (Fig. 13-25).
- 33. On right side of top material, at front of hold-down cable pocket, install cable through pocket in top assembly.

NOTE: Welding rod or similar material may be bent at one end to form a hook. Then at rear of hold-down pocket, slip hooked end of rod into pocket. Push rod through pocket until hooked end of rod is exposed at front of pocket. Install rear end of cable attaching bracket over hooked portion of rod; then pull cable through pocket. When cable attaching bracket is exposed at rear end of hold-down pocket, disengage hooked portion of rod from cable attaching bracket. Repeat above operation on opposite side of top assembly.

- 34. After cables have been inserted in hold-down

pockets in top material, securely install front and rear cable attaching brackets to side roof front and rear rails (Fig. 13-3).

- 35. Check position of top trim at rear roof bow and at side roof rear rails. With quarter flaps properly folded over rear side roof rails (edge of rails should match stitch lines of quarter flap seams), marks on deck seam should be in center of rear roof bow.

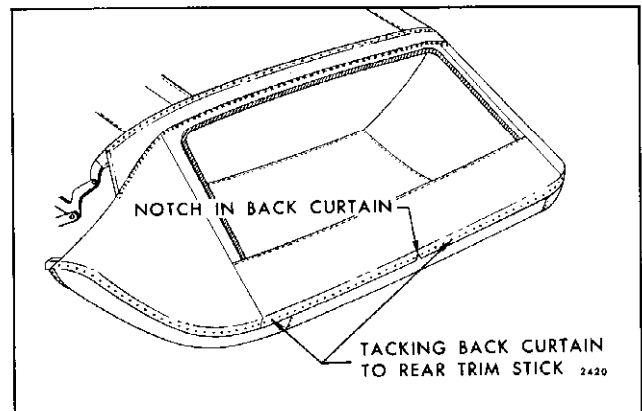


Fig. 13-17 — Back Curtain Installation

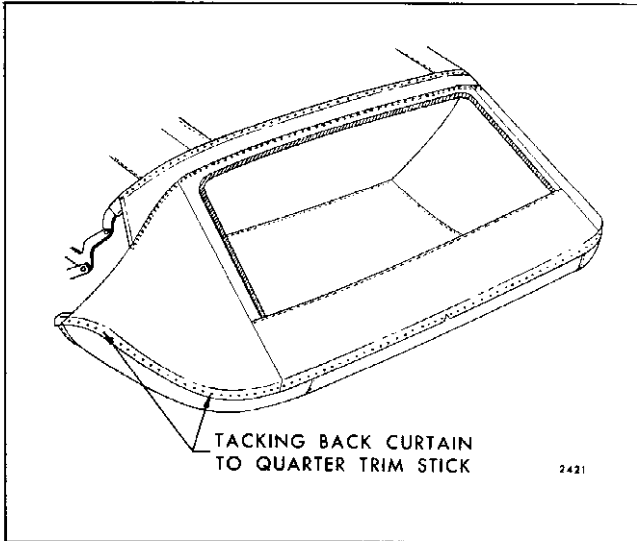


Fig. 13-18 — Back Curtain Installation

NOTE: The deck seam mark will vary slightly ($\pm 1/4''$) depending upon position of rear roof bow. Also check centerline mark on inner lining of top material. Mark should correspond

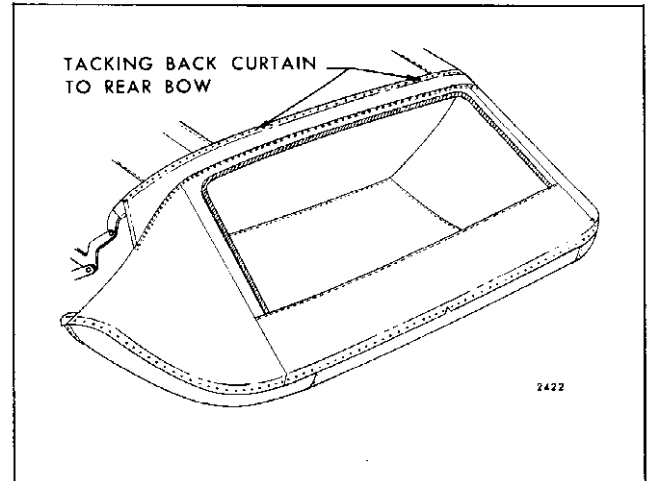


Fig. 13-20 — Back Curtain Installed

to centerline mark on rear roof bow. (See Fig. 13-26).

36. Using nitrile cement or neoprene-type weatherstrip adhesive, fasten rear quarter flaps to side roof rear rails. Make sure that quarter flap seam breaks at forward edge of side roof rear rail.

NOTE: Material may have to be stretched from side to side to insure proper fit of top material flaps to side roof rear rails and to remove wrinkles from top material along rear roof bow.

37. Using an awl or other suitable tool, pierce flaps for side roof rail rear weatherstrip attaching screws. Install side roof rail rear weatherstrips to help maintain position of quarter flaps while adhesive is drying.

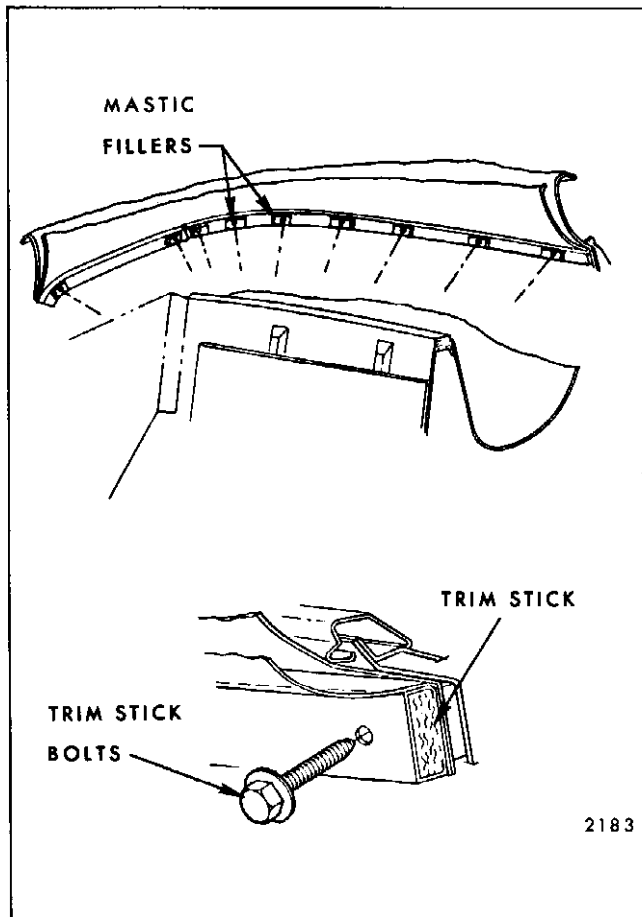


Fig. 13-19 — Checking Trim Stick Fillers

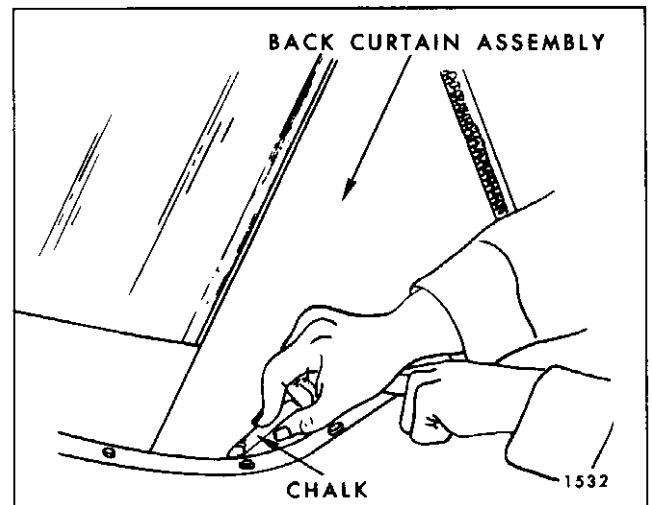


Fig. 13-21 — Marking Back Curtain

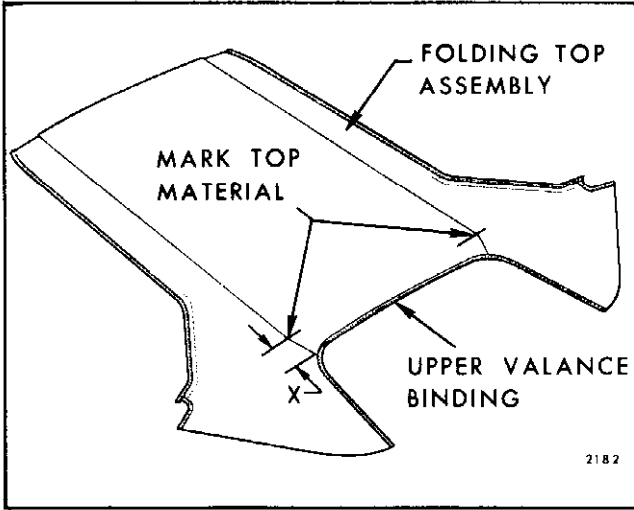


Fig. 13-22 — Marking Top Material

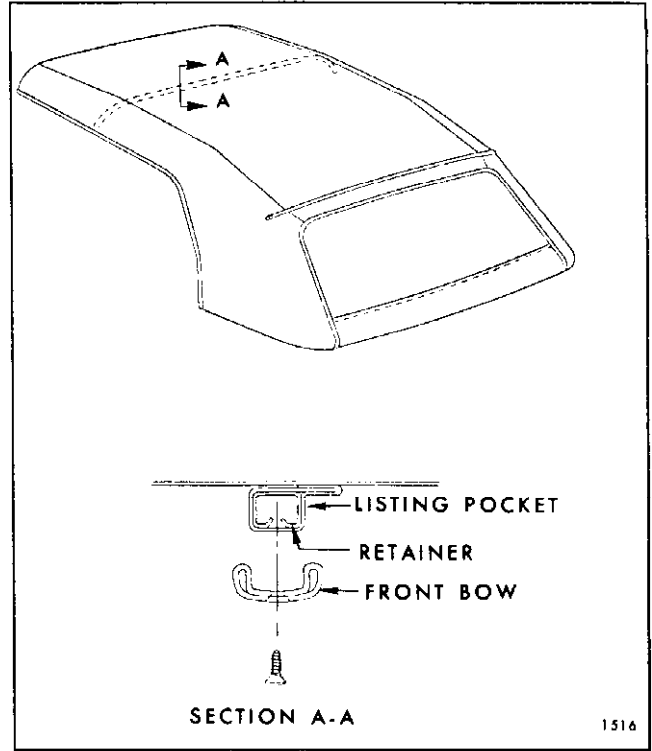


Fig. 13-25 — Listing Pocket Retainer

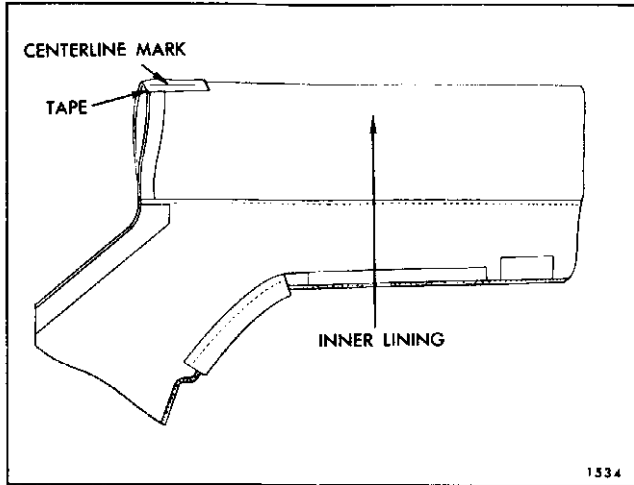


Fig. 13-23 — Marking Folding Top Material

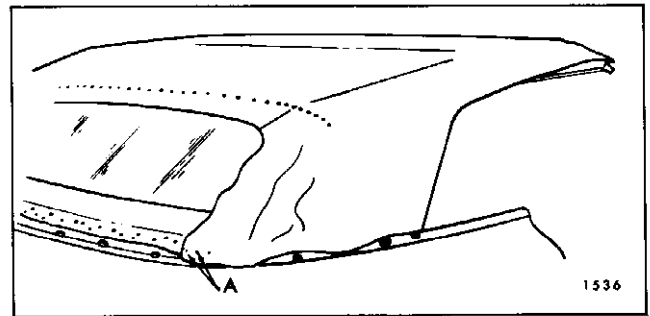


Fig. 13-26 — Tacking Top Material

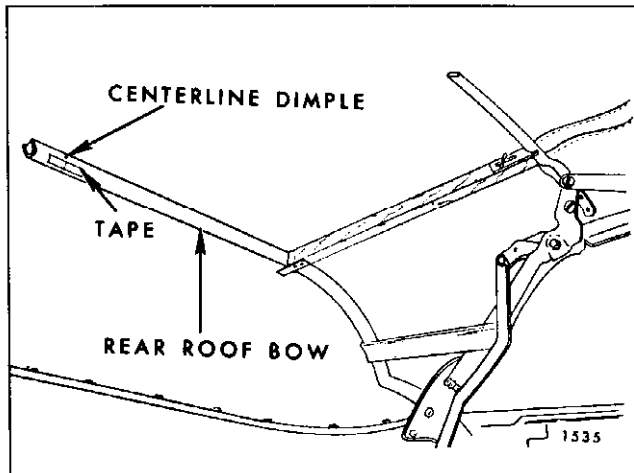


Fig. 13-24 — Marking Rear Roof Bow

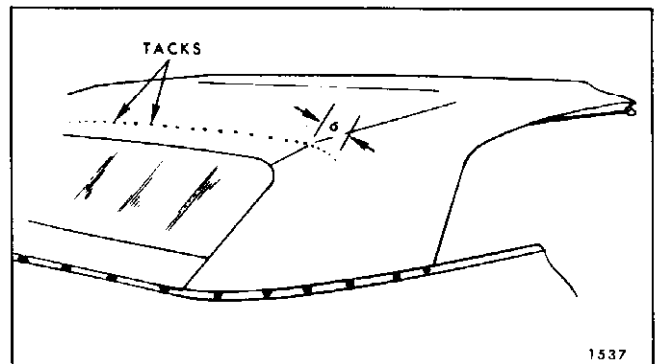


Fig. 13-27 — Tacking Outboard Of Seams

38. Using previously marked lines (ends of trim stick) as locating reference, tack top material to rear and rear quarter trim sticks. "A" in Figure 13-26 shows top material installed to rear trim stick at inboard edge.
39. Cut or punch hole in top material for each trim stick attaching bolt.
40. Install top material into body. Make sure rear and rear quarter trim stick attaching bolts are completely driven in to represent finished condition.
41. Check fit of top material. Rear quarter trim sticks may be adjusted downward to remove minor wrinkles in top material in rear quarter area.
42. Where required, re-mark top material; then make necessary adjustments to top material by repositioning rear quarter trim sticks and/or by retacking top material to rear and/or rear quarter trim sticks.

NOTE: In extreme cases, adjustment of top material at rear or rear quarter trim sticks may have to be performed several times before desired fit of top material is obtained.

43. Remove trim sticks with attached top material from top compartment well. Back curtain should extend 1/2" below trim sticks. (See step 7 of installation procedure). In addition, top material must extend 1/2" to 5/8" below trim sticks to minimize water wicking on inner lining of back curtain material. Trim top material as required.
44. Install trim sticks with attached top material into top compartment well and tighten side and rear trim stick attaching bolts.
45. Re-check side roof rail flaps. Make sure mark at deck seams is in center of rear bow. Also re-check centerline mark on inner surface of top material at rear bow.
46. Where required, remove side roof rail rear weatherstrips. Re-adjust top material at side roof rails and reinstall weatherstrips.
47. While pulling top material slightly rearward, stay tack top material along rear roof bow.

IMPORTANT: Tacks must be installed along a straight line in center of rear bow. (See Fig. 13-27). Tacks outboard of deck seams should be restricted to distance not to exceed 6", which is length wire-on binding extends past seam (Fig. 13-27).

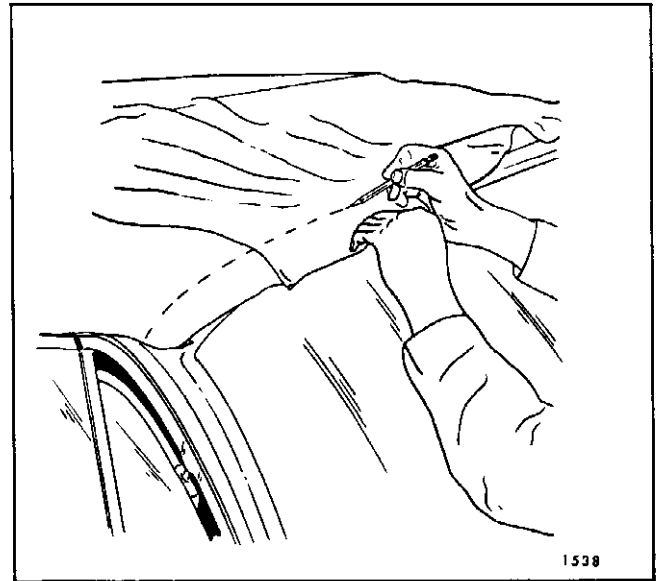


Fig. 13-28 — Marking Top Material At Front Roof Rail

48. At front roof rail, pull top trim material forward to desired tension. While maintaining tension on top trim, place a pencil mark on outer surface of trim material along forward edge of front roof rail (Fig. 13-28).
49. Unlock top from windshield header and apply nitrile cement or neoprene-type weatherstrip adhesive to tacking area of front roof rail and corresponding surface of top material. Pull top trim material slightly forward so that pencil marks are on underside of front edge of front roof rail. Fasten top trim to cemented area and stay tack trim to rail (Fig. 13-29).
50. Apply nitrile cement or neoprene-type weatherstrip adhesive to front flaps and to corresponding areas on side roof front rails.

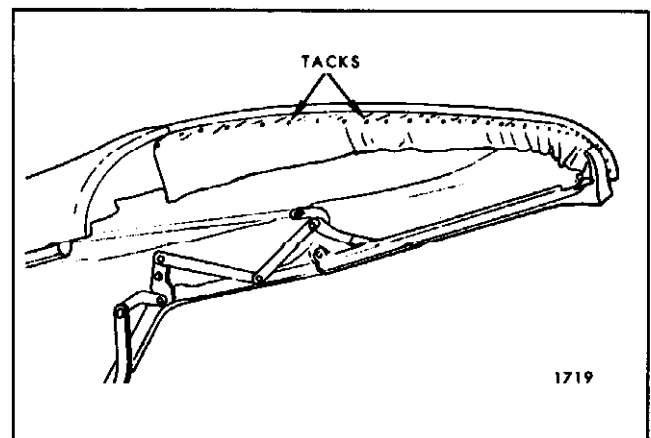


Fig. 13-29 — Installation Of Top Material To Front Roof Rail

13-14 FOLDING TOP

Fasten flaps to side roof front rails. (See Fig. 13-30).

51. Lock top to windshield header. Check appearance of top trim as well as operation and locking action of top. (If additional tension is desired in top trim unlock top from header and reposition top trim by pulling trim further forward. Stay tack and re-check top appearance).
52. Complete tacking of top trim to front roof rail and trim off excess material.
53. Permanently tack top material to rear roof bow. Apply bead of neoprene-type weatherstrip adhesive around each tack head, and into two holes pierced into top material for wire-on binding clip escutcheons.

NOTE: Any tack holes made in top material as a result of stay tacking material to rear roof bow should also be sealed using neoprene-type weatherstrip adhesive.

54. When completed, folding top should be free from wrinkles and draws. Install all previously removed trim and hardware and clean any soilage from top material, back window and material or pads.

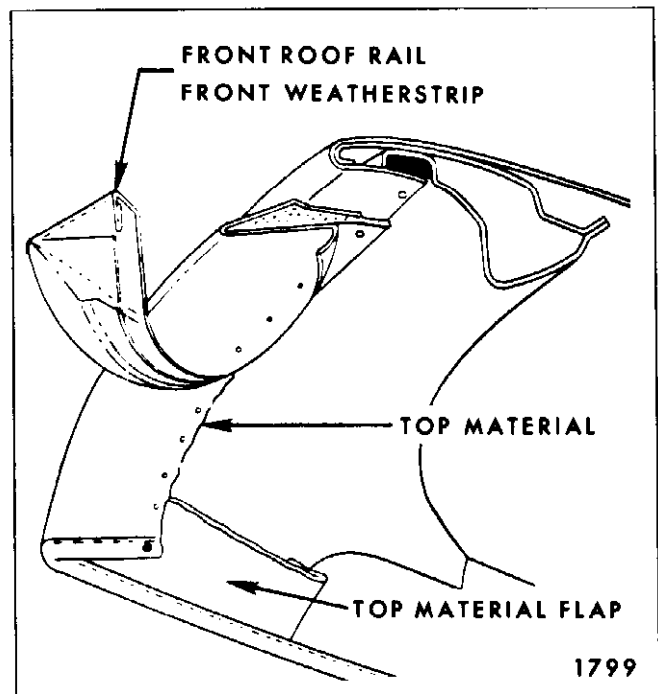


Fig. 13-30—Top Material At Front Roof Rail

55. On styles so equipped, connect back curtain support rod to back curtain.