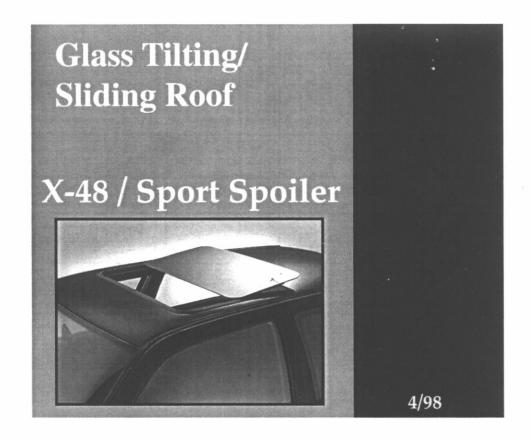
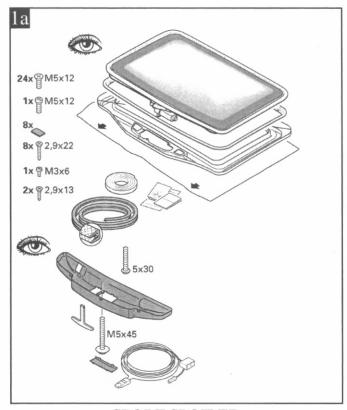
X-48 / Sport Spoiler Installation Manual

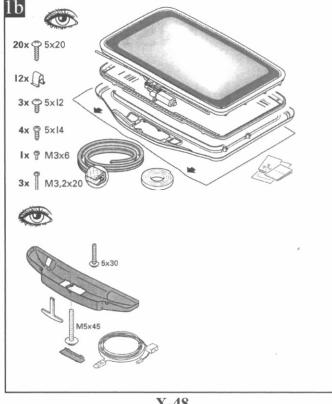




(~)ebasto

X-48 / Sport Spoiler: **Installation Manual**



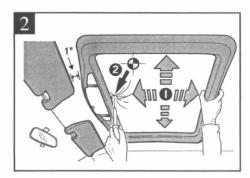


SPORT SPOILER

X-48

Inspect contents of package:

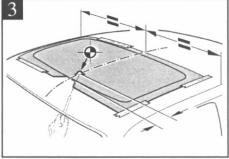
- Any parts damaged in shipping?
- Any parts missing?



If C-line is already established, proceed to next step. (Refer to Application List)

Position Garnish inside vehicle so that it clears the sun visors, assist straps, console, front/rear header, moldings, dome lights, etc.

Place an awl at the front inside edge of bezel. Push up through the headliner to create a dimple on the outside of the roof skin.



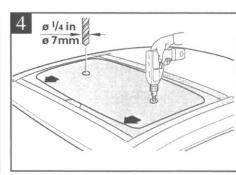
Measure forward from dimple 1 1/8" (29 mm) on Drill 1/4" hole through template where marked and Sport Spoiler and 1 3/8" (35 mm) on X-48 and mark through headliner of vehicle. a 2" line parallel to front edge of roof. This is your C-line. Record this dimension for future reference.

Position front cut edge of template on C-line. Center template side to side.

Secure template to roof skin with masking tape.

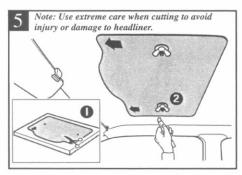
Note: Make sure curved edge marked front is facing the front windshield.

A professional template set is available for the Sport Spoiler and the X-48. Refer to the Service Parts List.





X-48 / Sport Spoiler: Installation Manual



- 1) Cut out cardboard headliner cutting template from sunroof shipping container. Pre-drill holes in template (1/4").
- 2) Attach inside template to outside template using 1/4" nut and bolt (2). Make sure inside template is positioned properly. (Curved line of template is to the front)

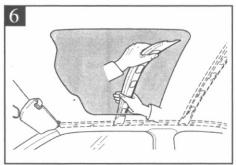
Cut headliner along template line using a utility knife or similar cutting tool.

Note: A professional template set is available for the Sport Spoiler and the X-48. Refer to the Service Parts List.



- 1) Position sunroof unit in roof hole.
- **Tip:** Open the glass panel manually to make for easier handling.
- 2) Check clearance of sunroof frame to roof hole.

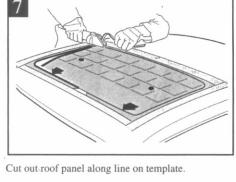
Important: To prevent roof distortion, sunroof frame must have approx. 1/16" (1.5mm) clearance at all points.



Remove any roof bows that interfere with the installation of the sunroof unit.

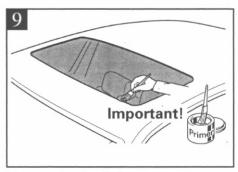
Note: Make cut in center of roof bow first, then cut the outside ends to prevent distortion to outside of roofskin.

Important: Relocate bows if possible.

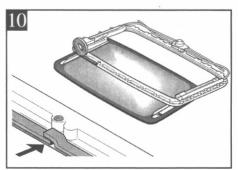


Discard cutout.

Note: To minimize any sheet metal distortion, make a relief cut 1-2 inches along inside of template line before cutting to the line.



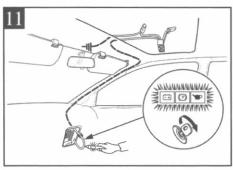
Prime raw edge of roof hole with a corrosion resistant paint or primer.



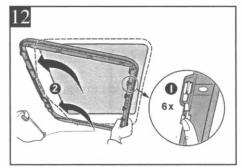
Apply sealing tape provided around perimeter of suproof frame

Start tape at a fastener location and overlap 1/4 inch.

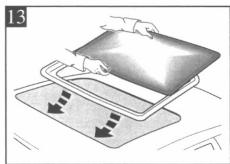
Note: Use foam tape on lower frames without rubber profile.



- 1) Connect the red wire ("hot") to a fuse (20 amp min.) that is only energized when the key is in the run or accessory position.
- 2) Connect the black wire (ground) to the vehicle's header rail to complete the circuit.



- 1) Install clips (6) into lower frame on the X-48 sunroof. Clips are not necessary for the Sport Spoiler sunroof.
- 2) Position lower frame into vehicle placing front edge of frame between headliner and roof skin.



Position sunroof frame into roof hole.

Note: Ensure that all track screws on outer frame are fastened securely before attaching lower frame.

Important: If motor is removed to install sunroof, re-time unit before attaching motor (see Retiming Procedure in Service Manual).

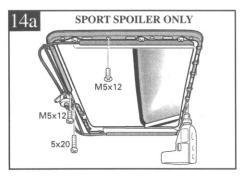
Fasten lower frame to sunroof frame with the screws provided.

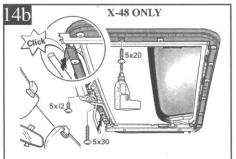
Note: Start in center and work outwards using a cordless drill with clutch setting to avoid over-torquing / stripping screws.

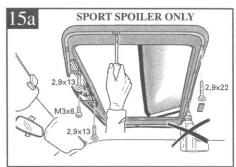
On X-48, attach plastic return tubes to lower frame.



X-48 / Sport Spoiler: Installation Manual



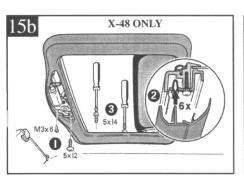




Attach Garnish to lower frame with screws provided (see illustration above). *To avoid stripping screws*, *do not use power driver*.

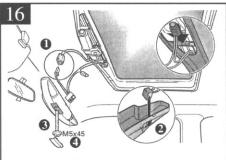
Use small cover plates to cover the 8 recessed areas on the garnish.

Note: Garnish may also be wrapped in headliner.

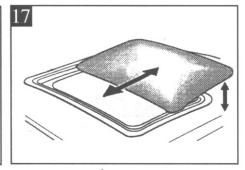


- 1) Install the (2) screws to retain the front of the Garnish.
- 2) Insert the tabs (6) at rear of Garnish into the clips (6) on the lower frame.
- 3) Install the remaining 5 x 14 screws (4) through the holes (4) in the mechanism track for the Garnish.

Note: Garnish may also be wrapped in headliner matching the vehicle interior prior to installing.



- 1) Connect sunroof switch to plug on motor.
- 2) Install sunroof switch into square hole on motor
- 3) Fasten motor cover to frame using an M5 x 45 screw provided.
- 4) Attach emergency cover to motor cover.



Function sunroof to verify proper operation of system. (Ensure that there are no unusual sounds or movements)

Note: Refer to Service Manual if neccesary.

IMPORTANT

Perform Water Test per procedure 0500-RP-0035A of X-48/X-48 "SS" Service Manual.

Perform road test to check for any buzz, squeaks, rattles, wind noise, etc.

Clean interior and glass panel.



6050 19 Mile Road Sterling Heights, MI 48314 (800) 837-8498