

INSTALLATION GUIDE



The Worldwide Symbol for Sunroof Excellence



AutoPort



NewPort

NOTICE:

These instructions are intended as a general guide for installation of AutoPort and NewPort Sunroofs in all types of vehicles. Some installations may include obstacles that require relocation or removal. An example would be a dome light that may need to be moved from the center of the headliner to a location away from the sunroof. In some vehicles, a roof bow may be concealed between the headliner and the roof sheet metal and may require removal before installation of the sunroof.

It is the responsibility of the installer to examine the vehicle and determine the proper location and application of this sunroof prior to installation.

C.R. Laurance does not accept responsibility for misapplication of this sunroof.

RECOMMENDED TOOLS AND MATERIALS



Sheet metal shears (CRL Part #K200) or sabre saw



Drill/screw gun with minimum 3/8" drill bit and #2 cross-recess tip



Razor knife and/or serrated knife



Scratch awl or similar pointed tool



Scissors



Safety equipment - glasses: gloves, etc.



Grease pencil - white or black depending on vehicle color



Masking tape - 3/4" and 2"



Zinc-rich primer and brush or swab



Tape measure- a cloth seamstress measure works best



Drop cloth to protect vehicle interior

Note: Some installations may require additional tools and/or materials.

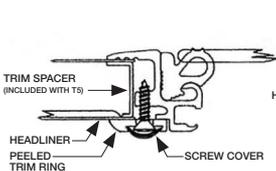
SAFETY PRECAUTIONS

Always wear proper safety equipment such as goggles, gloves, etc.

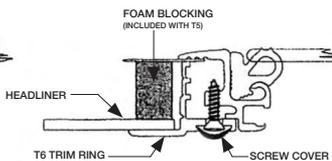
Always follow the safety precautions recommended by the manufacturer

UNIVERSAL, MOLDED, OR VAN TRIM RING?

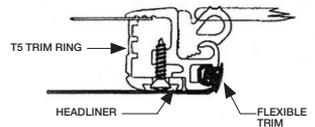
This installation guide includes instructions to either wrap the headliner, quick-fit, or install the molded trim ring option. A 'wrap' installation involves wrapping the headliner over the framing components to conceal the trim ring and provide a factory-installed appearance. As an alternative, you may opt for either the quick-fit installation or the molded trim ring (available separately). Instructions specific to option selection are indicated by *.



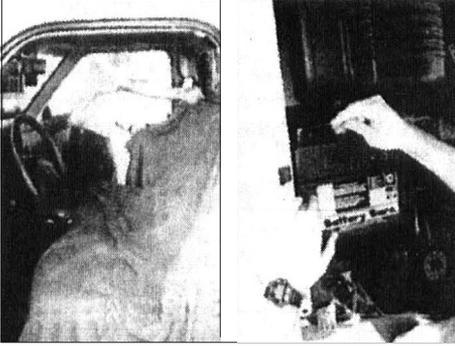
UNIVERSAL TRIM RING
(QUICK FIT)



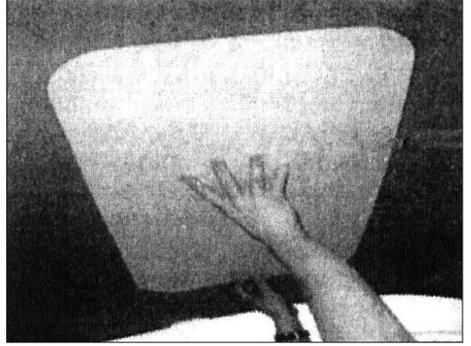
MOLDED TRIM RING
(AVAILABLE SEPARATELY)



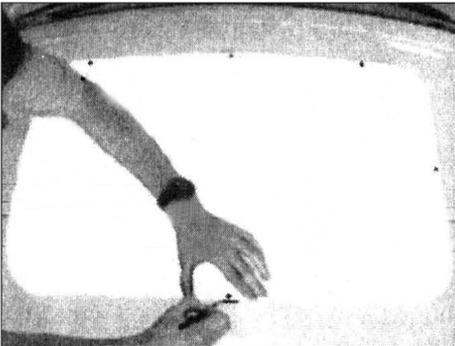
VAN TRIM RING
(SHOWN WITH WRAPPED HEADLINER)



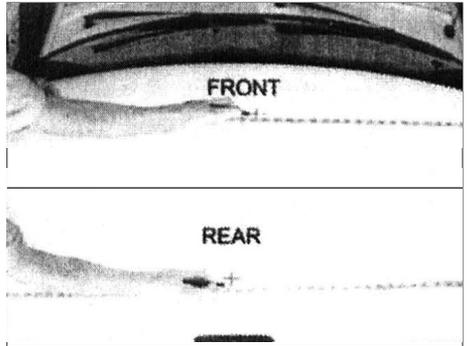
1. Cover the interior and exterior of the vehicle by using drop cloths, tape and/or other coverings to protect from soiling and debris. Disconnect the battery to avoid shorting wires which could be cut during the installation.



2. Select the proper sunroof template from the master template and cut it out precisely on the line with scissors. From inside the vehicle, place your template against the headliner where you prefer to install the sunroof. Your placement should clear dome lights, visors, and consoles by at least 1". At point "A" on the template, poke a scratch awl through the template and headliner, dimpling the outside of the roof skin.



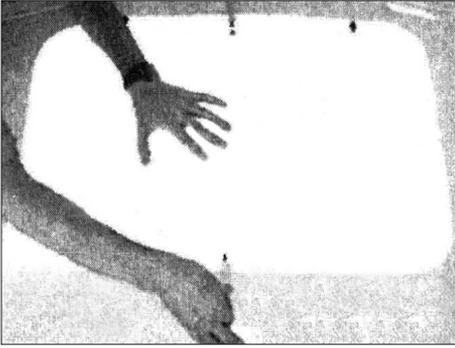
3. Place your template on the outside of the vehicle keeping your template oriented in the same way it was on the inside of the vehicle. Line up point "A" on the template with the dimple on the outside roof skin. Roughly align the template. Place a small line, about 3" long, on the roof along the front and rear edges of the template centerline. Set the template aside.



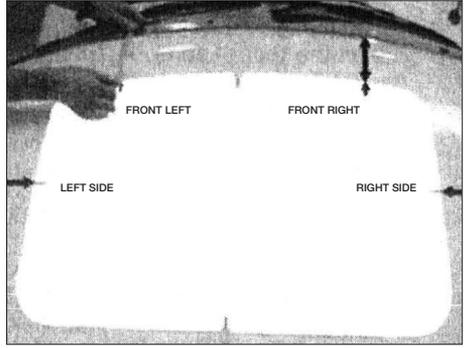
4. Measure side-to-side through the front line you made on the roof. Divide this measurement in half and mark this point on the front line. Repeat this procedure at the rear line.

Note: Front and rear measurements may be different due to changes in the vehicle's roof width.

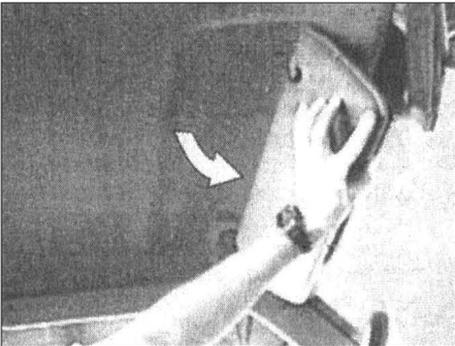
You have now determined the vehicle centerline.



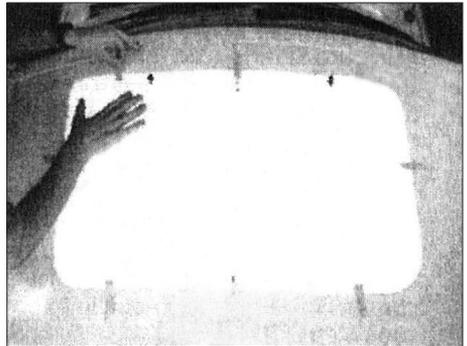
5. Place the template back on the vehicle. Line up the template centerline with the vehicle centerline and the two 3" marks. Tape the template in place at the centerline front and rear. Pull the tape tight so that the paper is flat on the roof.



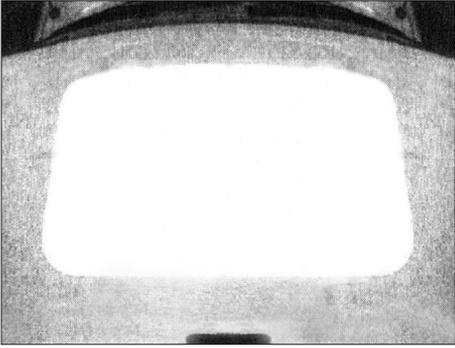
6. **Check your position!** Measure from the side of the template to the edge of the vehicle and make sure that it is the same measurement on both the right and left sides. At the front points marked "B", measure at right angles to the edge of the windshield. This distance **must be the same** at both points. Adjust the template if necessary.



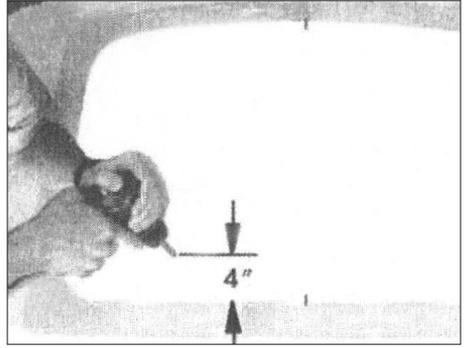
7. Visually recheck and confirm the sunroof's placement. Flip the visors forward, away from the sunroof cut area, to prevent damage during the installation.



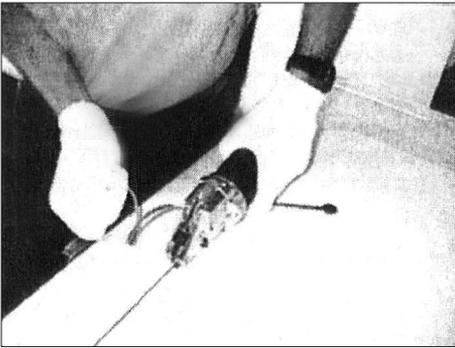
8. Tape the template smoothly on the roof. Draw a line around the template and remove the template from the roof.



9. Place about 2" of masking tape 1/8" from the outside of the cutting line to protect the painted surface while cutting.



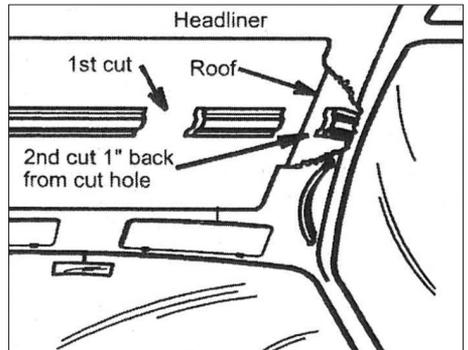
10. Drill a pilot hole 4" inside the cut line. The pilot hole size will be determined by your choice of cutting tool. **It is important not to damage the headliner.**



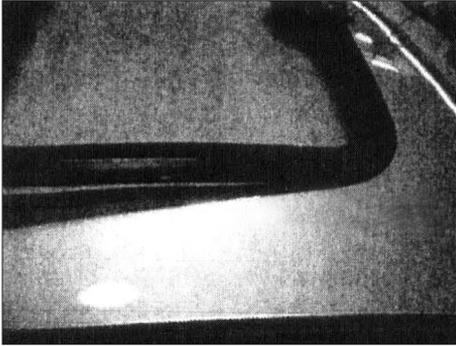
11.* HEADLINER WRAP OPTION: The use of an electric shear is recommended. **Do not** cut through the headliner. The use of a sabre saw will require lowering or removing the headliner.

QUICK-FIT AND MOLDED RING: Use shears or a sabre saw. If using a sabre saw, you may cut through the headliner.

ALL: Cut out the sunroof opening precisely on the inside edge of the cut line.



12. Remove any debris from the roof. Trim back roof bows so that they are no closer than 1" from the cut edge of the sunroof opening. The cut end of the bow should be flattened and secured to avoid rattles and sharp points. If necessary, reconnect and/or relocate any wiring. Secure wiring, at least 2" beyond the cut hole, to prevent rattles.

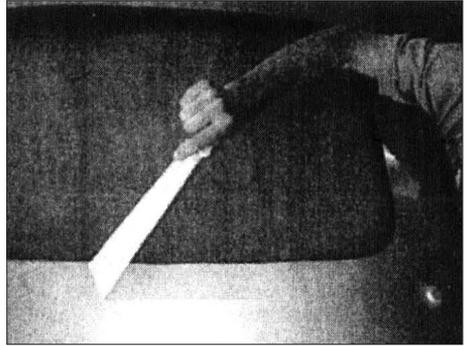


13.* WRAP HEADLINER INSTALLATION:

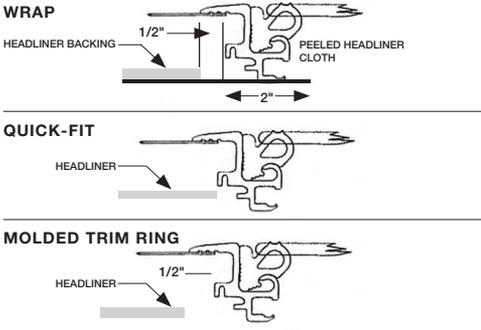
Remove the glass, trim ring, hinge brackets, and latch bracket from the sunroof frame. Test fit the frame in the roof opening and trim the opening if necessary. File any burrs or rough edges. Remove any debris from the roof.

QUICK-FIT AND MOLDED TRIM RING:

Remove the glass panel from the sunroof frame. Test fit the frame in the roof opening and adjust the opening if necessary. File any burrs or rough edges. Remove any debris from the roof.



14. Carefully remove the masking tape by pulling it toward the inside of the hole as you peel it from the roof to avoid pulling up the paint.



15.* WRAP HEADLINER INSTALLATION: Cut out the headliner 2" smaller than the roof cut opening. Carefully peel the cloth headliner material from the hardboard backing to a line 1/2" larger than the roof cut opening. Cut and remove the excess hardboard material back to the 1/2" line. **Caution: Do not cut into the cloth material.**

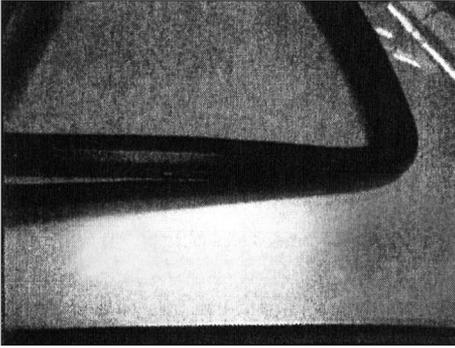
QUICK-FIT: Cut out the headliner to the same size as the roof opening.

MOLDED TRIM RING: Cut out the headliner 1/2" larger than the roof opening.

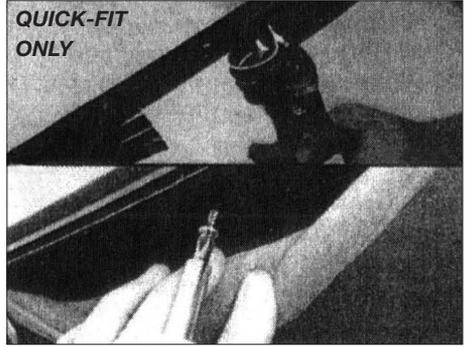


16.* QUICK-FIT ONLY: Insert the trim spacer (long leg against the roof) between the roof sheet metal and the headliner.

ALL: Place the sealant tape around the perimeter of the opening approximately 1/8" from the edge. Overlap the starting point by 1/2" and leave no voids. Apply a zinc-rich primer to the bare-metal cut edge of the opening.

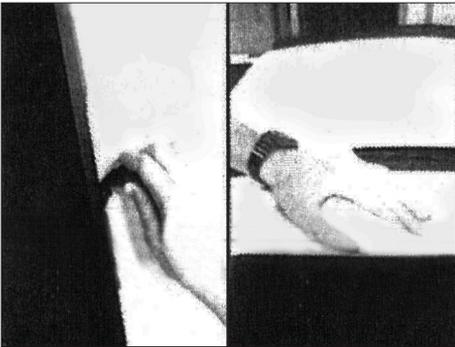


17. Insert the sunroof frame into the opening being careful not to move the sealant.

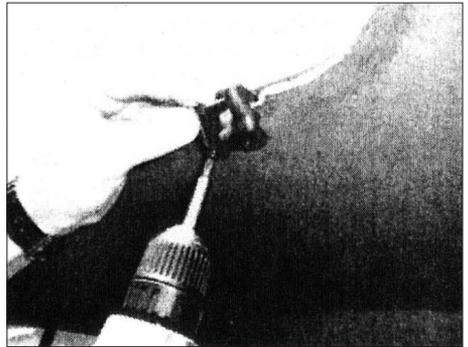


18.* QUICK-FIT ONLY: Using pliers, grasp and peel the entire vertical leg from the trim ring.

ALL: With the sunroof frame centered in the opening, install the trim ring. Install all screws but do not tighten. Secure the trim ring by tightening toward the corners, securing the corners last.

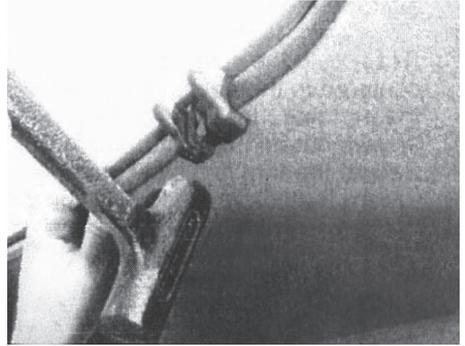
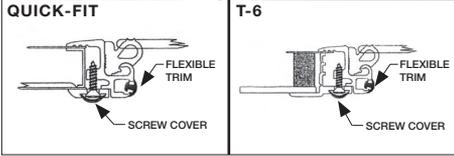
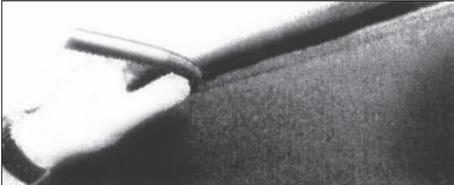


19. Use a plastic blade or squeegee to remove the excess sealant from the roof and sunroof frame. A cloth **lightly** dampened with mineral spirits can be used for final cleanup.



20.* WRAP: Wrap the cloth around the outer frame at the hinge locations. Pull the cloth taut and insert the front hinge brackets. Locate the holes in the frame using an awl by poking through the holes in the bracket and through the headliner. Insert and tighten the screws. Attach the rear latch bracket in the same manner.

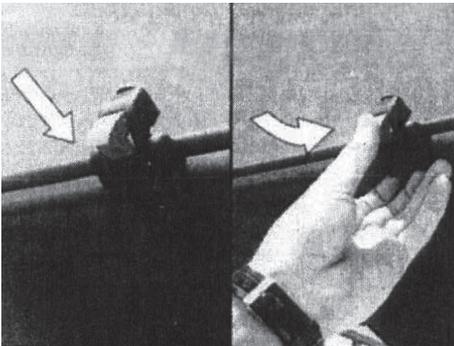
QUICK-FIT AND MOLDED TRIM RING: Proceed to step 21.



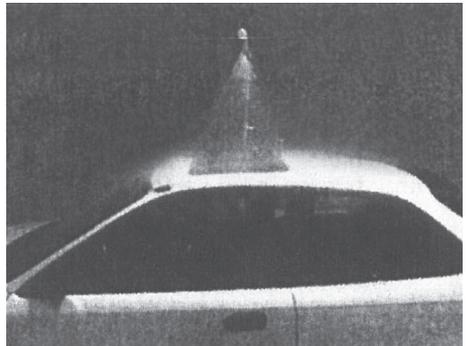
21.* WRAP: Insert the flexible headliner trim, lower edge first, starting at the front hinge brackets while stretching the headliner cloth. Cut the trim about 1/8" oversize to allow for shrinkage. Make sure no wrinkles are visible in the headliner.

QUICK-FIT & MOLDED TRIM RING: Insert the flexible trim into the channel. Cut the trim about 1/8" oversize to allow for shrinkage. Insert the screw cover into the trim ring, starting and ending at the rear latch. Cut the screw cover about 1/8" oversize to allow for shrinkage

22. Insert the 6 screw caps into the appropriate locations in the hinge brackets and the latch bracket. If necessary, **lightly** tap into place.



23. Install the glass panel. Refer to the Owner's Manual for glass panel installation instructions.



24. Water test the sunroof for approximately 5 minutes to assure installation integrity. Clean the glass panel and vehicle interior.