



Full Roof With Sunroof Installation

PLEASE READ COMPLETE INSTRUCTIONS PRIOR TO STARTING THE INSTALLATION

Application to be preformed by a professional installer

Surface Preparation:

All substrates must be considered contaminated. Clean surface immediately before applying graphic.

1. Use a solution of liquid Joy® and lukewarm water (1oz. per gallon) and thoroughly clean the area where graphics will be applied, paying attention to the areas where the rubber seal meets the roof. Wrapping a clean cloth around the squeegee and sliding the edge of the squeegee between the rubber and roof will ensure a clean edge when graphic is trimmed. Rinse with clean water.
2. Dry the surface thoroughly with a clean lint-free cloth. A heat gun or hair drier may be used to help accelerate drying.
3. If your vehicle has been waxed, to ensure proper adhesion you should remove the wax with a 3M solvent / adhesive remover that can be purchased at most automotive stores. Saturate a clean cloth with the solvent, and wipe entire area. Wipe with a clean lint-free cloth before the solvent evaporates. Make sure the surface is completely dry, use heat to dry any retained solvents. Make sure area under the rubber seal is dry.
4. A final cleaning with isopropyl alcohol will ensure any residue is removed; you must wipe the surface before it evaporates.

Pre- Application Information:

THIS IS A DRY APPLICATION ONLY – DO NOT APPLY IT WET

The use of any liquid will prevent the adhesive from properly adhering to the surface and will void all manufacturers' warranty.

Unscrew the antenna and then remove the base cover by twisting counter clockwise.

Do not lay the graphics on the floor or other contaminated surfaces, it will pick up dirt on the back and transfer to your clean surface.

Test your layout by temporarily positioning the graphics on the roof. Use masking tape to hold them in place. This ensures that the graphics will fit and all pieces are available.

Grasping the edge of the graphic may transfer body oils and dirt to the adhesive. To minimize any problems with adhesion at those points, grasp the film as far into the graphic as possible with out wrinkling the film.

Application sequence for sunroof graphic:

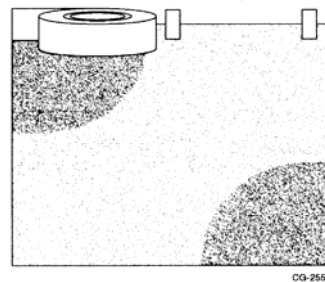
Do the installation in the shade or inside. Make sure neither glass nor material is hot; it should be cool to the touch. This will keep the material from stretching during installation. Ambient air temperature should be between 60 and 90 degrees, Fahrenheit.

1) Clean the sunroof with water and a mild-abrasive cleaner specifically designed for glass, such as Soft Scrub. Do a final cleaning with alcohol to remove any residue. Make sure there is no dust or streaks on the glass.

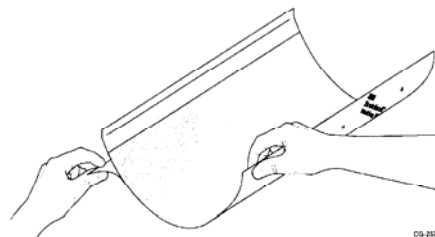
2) Using masking tape, position the perforated pieces on the glass; there should be one for each section, trimmed to shape. If applying a checker pattern, be sure to space the two pieces of vinyl so the squares that fall on both pieces of glass are the same width as the others. The distances between the two sections will be approximately $\frac{3}{4}$ of an inch.

You will be using the following top hinge method to apply the sunroof graphics.

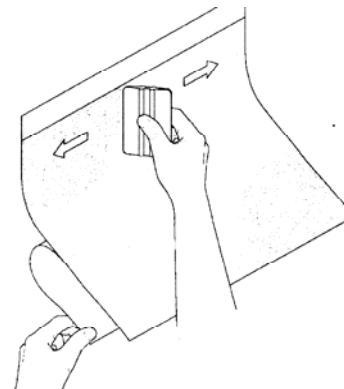
3) Apply a strip of masking tape 1 1/2 to 2 inches wide across the top edge of the graphic, with half of the tape on the graphic and half on the roof.



4) Raise the graphic up over the top hinge and peel the liner back half way and fold it against itself. Bring the graphic back into position, keeping tension on it to prevent it from resting on the glass.



5) Begin squeegeeing at the top center. Squeegee the graphic beginning at the center of the tape hinge working outward to the edge. Use **firm** pressure on the applicator with overlapping strokes. **Avoid trapping air; piercing the surface of the window**



film to release trapped air will promote failure.

- 6) Hold the graphic away from the surface and gradually remove the liner while continuing to squeegee to the end. Check alignment to edge of glass as you go.
- 7) Remove the tape hinge and squeegee the top edge. Re-squeegee all edges using firm pressure.
- 8) Apply 3M Edge Tape around outside edges of perforated vinyl. Tape is ½ inch wide; apply ¼ inch on vinyl and ¼ on the sunroof by peeling back the liner as needed and using your thumb or finger apply pressure as you follow around the edges. A few inches from the curves begin to stretch the tape a little and follow the curve by applying pressure as you push the tape around. On the square corners, just cut the tape of square and begin the other direction by overlapping the tape. **As a final step, apply additional pressure with the supplied squeegee.**
- 9) **The application of edge Tape** is one of the most important factors in **Preventing Premature Graphic Failure** due to edge lifting.

Application sequence for applying roof graphic:

Following directions on the package, apply 3M 94 Primer (small white vial) to the area where the roof meets the rubber seal along the sides and above the windshield. Trace outer edge of the seal with applicator sponge; apply primer to the metal surface right up to the edge of the rubber. When properly applied, 3M 94 Primer will increase the longevity of your graphic.

Using masking tape, position the roof graphics using areas that are printed on both the perforated sunroof and the roof graphic as registration points. The vinyl sections will overlap onto the sunroof by about ½” and will be trimmed later in the application.

1. Once you have the graphic in the desired position, cut a hole for the antenna mount starting with the small raised bump on the top. For 2005 and 2006 cut a slit from the hole to about ½ in from the front of the mount, and then a ½ inch horizontal cut, making a T, to prevent it from continuing. Now do the same for the rear of the mount, but be very careful not to over cut it, you can always cut more later, if you need to. Once the hole is cut, check your alignment again. Final trimming will be done later.
2. Make sure that one side of the graphic is securely taped in position so that you are able to remove the tape from the opposite side and still maintain alignment between the sunroof and roof graphic.
3. Fold the un-secured side of the graphic over onto the opposite side. Peel the liner away from the graphic back to a point just past the antenna cutout. Do not peel the graphic away from the liner, as this will cause the graphic to stretch.
4. Carefully bring the graphic back into place making sure your alignment is good. Using **light** pressure and overlapping strokes, starting at the antenna apply the graphic on the areas between the sunroof and the crown at the edge of the roof, do not squeegee down to the edge at this time. Repeat this process with the opposite side. If necessary, enlarge the hole for the antenna mount and squeegee tight to the base.

5. Once you have it applied on the flatter surfaces, start at one of the corners working the vinyl evenly out either direction and down towards the edge of the roof one quarter to one half of an inch at a time, by pushing the applicator while holding it firmly against the surface. Work it out to the end of the “leg” and out to towards the antenna. If the graphic starts to bunch up or ruffle, apply just enough heat to help soften and relax the vinyl. Using your free hand, hold and work the vinyl while continuing to squeegee, with the application of heat and squeegee technique, you will be able to work the ruffles all the way out past the roofs edge into the excess vinyl to be cut away.
6. Once you have the rear piece applied, using your thumb and nail, define the edge of the metal roof at the sunroof. Using a sharp razor, utility or xacto blade, insert blade through the vinyl against the metal roof edge and carefully follow it around each direction to remove the excess vinyl. Be very careful not to cut into the paint. Using the edge of the squeegee, define the edge of the rubber seal where it meets the roof. You may have to pop the vinyl up around the edge and hold it out while you tuck it to the rubber. (be careful not to pop it off the surface once you have made contact with the primer) Using a **sharp blade** and **light pressure**, remove the excess vinyl from the side rubber seal by cutting it approximately 1/8 of an inch onto the rubber seal, be very careful not to cut your seal. Now carefully tuck the vinyl down behind the seal. Repeat this step for the windshield but leaving ¼ of an inch to tuck behind the rubber. Be very careful around the rubber corner caps, you can pull the caps out carefully, where it meets the windshield rubber, to help tuck it in. If you leave too much excess, it will be very difficult to get it behind the rubber.
7. Install the front graphic in the same manner as you did the back graphic. Make sure it lines up with the rear piece before you apply pressure to the overlap. The two vinyl sections will overlap by about ½”.
8. Using heat, re-squeegee all edges and overlaps using Firm pressure. Re-squeegee the entire graphic to ensure no air bubbles are present, most bubbles that are no larger than a quarter can be removed by applying pressure to the center of the bubble and forcing the air into the channels in the adhesive and then re-squeegeeing the area (this method only works on the roof vinyl, not the sunroof vinyl). For larger bubbles, use the point of a pin to pierce the vinyl and release the air. **Do not use the razor blade to pierce the vinyl**; this will cut the vinyl causing it to separate in the sun and possible failure.

VISUAL PERFORMANCE