

## WINDOW CLEANING INSTRUCTIONS

To obtain optimum adhesion the bonding surfaces must be clean and dry. Assume all surfaces are contaminated and therefore cleaning is essential.

The area to receive tape should first be thoroughly cleaned with a liquid soap and warm water solution only. Ensure that all dirt and grease has been removed before proceeding with any installation steps.

Do not use cleaning products that are wax or silicone-based or that leave a residue behind (such as Windex®, gas line anti-freeze or windshield washer fluid) as it will interfere with tape adhesion and bonding will fail.

### FOR THIS REASON WE ONLY RECOMMEND USING SOAP AND WARM WATER TO CLEAN YOUR VEHICLE'S WINDOW PRIOR TO INSTALLATION.

Additionally if any products such as Rain-X®, Armor All® or a wax/silicone product have been used on the vehicle previously they too must be removed completely as they will interfere with adhesion.

After washing thoroughly with soap and warm water, rinse with clean water and dry completely.

A final wipe with a 50/50 Isopropyl alcohol/water solution is highly recommended for best results. Use a clean lint free cloth so as not to leave any residue or particles behind.

Ensure the surface is completely dry and residue free before proceeding.

#### **HINTS AND TIPS FOR INSTALLATION**

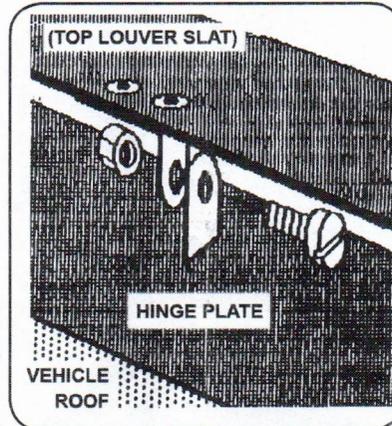
Surface temperature for application should be no lower than 60 degrees and not higher than 85 degrees. If climate will not permit, install inside a garage. Use a hair dryer to warm the surface, if necessary.

The tape bond will take 24 hours to cure. It is recommended that during this time period that the louver not be installed and that you do not drive the vehicle.

#### **FAILURE OF PROPER TAPE BONDING MAY BE ATTRIBUTED TO ONE OF FOUR ITEMS:**

- Poor surface preparation and/or application.
- Poor adhesive contact: exposed adhesive side of tape being touched or contaminated, insufficient pressure being applied.
- Adhesive being undercut due to prolonged exposure to high humidity, and not using silicone as recommended. Vehicle being driven too soon, tape not fully cured.

6. Temporarily fasten the top louver slat and hinge as shown.



7. Inspect the installation carefully at this point and make any adjustments necessary to get a satisfactory fit. Make necessary reference marks on the glass with a soft lead pencil or wax crayon to insure correct position during the remaining steps.
8. Remove the louver and, without moving the hinge or tie down plates, carefully remove the remaining backing from the special adhesive. Press each part firmly against the glass.
9. The backing may now be removed from the foam tape on the louver itself. The foam tape is designed only to provide a soft pad for the louver, the slight tackiness evident will gradually disappear.
10. Inspect all adhesive surfaces for good contact by viewing them from inside the car to insure 100% contact. Look for any air bubbles or areas of incomplete bonding. Seal any area found by pressing the hardware firmly against the glass. Mask off an area around the brackets. Apply a thin bead of clear or black silicone to all edges of the hardware mounting plates and "squeegee" in with a finger to ensure moisture cannot "undercut" the tape. Remove mask from rear window.

**Bonding takes 24 hours to cure.**  
**Do not install the louver during this time period.**  
**Do not wash car or drive in rain during this period.**

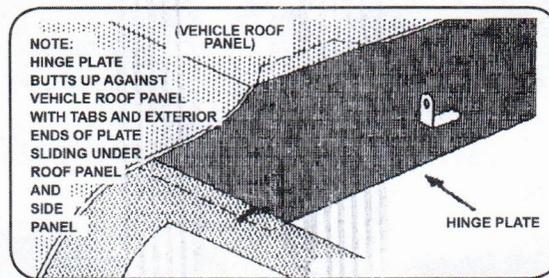
11. Make the final installation of the louver; with the louver properly aligned, tighten all fasteners completely.

Avoid pressure spray car washes and extreme cold weather for the next 24 hours to allow the adhesive to cure.

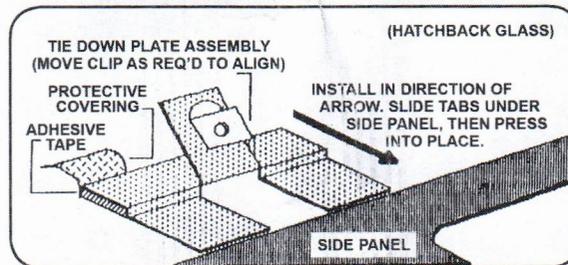
After complete installation of the louver, avoid pressure spray car washes or extreme cold weather for the next 24 hours to allow the adhesive to bond properly.

## 5. INSTALLATION STEPS

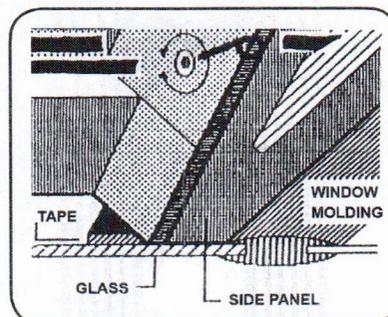
1. Take the hinge plate and fold back the corners of the adhesive backing. This will leave a small patch of adhesive exposed to "tack" the hinge temporarily in place while making the first fitting of the louver.
2. Locate the hinge plate in approximate position against the top edge of the glass as shown below — sliding the tabs of the hinge plate under the vehicle roof panel.
3. Fold back a portion of the protective adhesive covering on the side panels. (This will allow for easier removal of the remainder of the adhesive covering during attachment of the side panels.) Take one side panel and position on glass as shown in the above diagram — butting the panel against the side molding and adjusting for best fit. The inside edge of the side panel will slightly overlap the hinge plate. While holding the side panel in position, remove the protective backing from the adhesive and press the panel firmly against the glass to secure. Attach the other side panel using the same procedure.



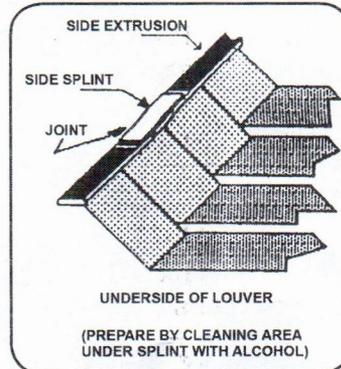
4. Fold back the protective adhesive covering on tie down plate (see below diagram). Position the tie down plates on the glass in the lower corners, sliding the "feet" of the tie downs underneath the side panels. Do not "tack" the tie downs in place until Step 5.



5. Place the louver on the window so that the foam padding rests on the side panels. Turn the fastener in the louver into the mating part located in the tie down assembly. Adjust the position of the tie down as necessary to align and temporarily secure the tie downs to the glass by applying pressure to the exposed portion of the adhesive tape.



5. After assembling the louver and tightening the center screw, proceed to add the side splints. The purpose of the side splints is to provide additional support for your two-piece louver. Peel the backing from the  $\frac{3}{4}$ " wide adhesive on the side splints provided in the hardware kit. Be sure the louver side extrusion joint is tightly pressed together and the louver surface is clean (see the preparation steps on cleanliness etc.). The side splint may now be placed on the underside of the louver as shown. Press the plate firmly in place and repeat the process on the other side. Now thoroughly read the installation instructions before you proceed.



### 3. CARS WITH REAR WINDOW WIPERS

(Non-Wiper Models – Skip to Preparation Steps)

Due to variations in location of factory installed rear window wipers, some wipers may touch the louver or louver hardware when parked or at the full extreme of operating travel. There are two ways to correcting this.

This first is to re-index the wiper arm. Remove the wiper arm assembly where the wiper arm is connected to the motor shaft by lifting the locking tab and lift the arm off the shaft. Operate the wiper mechanism and turn to the "OFF" position. With the wiper turned off, push the arm assembly back on the motor shaft allowing  $\frac{1}{2}$ " clearance to the louver. This will allow the wiper to cycle normally without hitting the louver.

The second method of correcting wiper hit is to purchase a wiper assembly approximately 2 inches shorter than the factory-supplied wiper assembly and install it in place of the original.

### 4. PREPARATION STEPS

NOTE: You will need the following items on hand to make a good installation:

1. Paper towels or a clean lint free rag to clean the window.
2. A bottle of rubbing alcohol to clean the window. Nothing else will clean the window without affecting the adhesive strength of the attaching hardware.
3. A soft lead pencil or wax crayon to mark the hardware positions.
4. Putty knife

Clean the glass with alcohol and paper toweling or clean rag, giving special care to ensure clean edges and corners. The glass must be above 60°F (warm to the touch) for the special adhesive to bond securely. If necessary, warm the glass with the rear window defogger or a hair dryer.

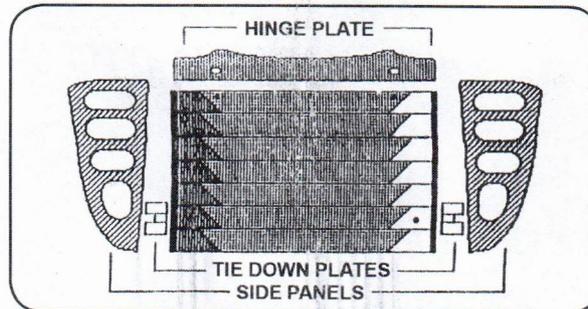
To achieve proper fit of all components, they must first be temporarily secured or "tacked" to the glass as outlined in the following installation steps.

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## 1. READ INSTRUCTIONS COMPLETELY BEFORE STARTING.

Refer to drawings often. Check hardware kit before starting to insure all pieces are included. Make sure you have the right part number. The louver number is stamped on the back of the slats. If you need to order additional parts, you can order directly from Willpak by calling 905-827-0224.

In order to reduce shipping costs to you, some of the louvers have been designed to separate into two halves. If you have a two piece louver, follow the next five steps to assemble your louver into one piece. If your louver was shipped in one piece move on to the preparation and installation steps.

## 2. TWO PIECE ASSEMBLY STEPS

1. Lay the louver upside down on a flat non-abrasive surface (i.e. a carpeted floor, the louver packing material or a piece of cardboard will do).
2. Start on one side of the louver and slip exposed slat of one half into the channel side piece of the other half and push the halves together.
3. Repeat the process with the opposite side of the louver making sure the center strip tongue and groove assembly slips together. **NOTE:** due to the geometry of some louvers, the lower piece may need to be bowed in order to slide the two halves together.
4. When the entire louver is in one piece, screw the two halves together at the center strip by using the Phillips head sheet metal screw provided. The holes in the tongue and center strip will not line up. This is intentionally done so that by tightening the screw the two halves will be forced tightly together. (Models for cars without rear window wipers have a strip of adhesive padding on the back of the center support strip. Peel the padding back slightly to expose the screw hole in the center strip tongue.)