Step 1. Marking & Drilling Pilot Holes

**IMPORTANT NOTE:** If knocks in the door are more than acceptable at a later time, you may want to adjust the height of the door accordingly. The lower hinge guard may be installed without the flooring material being applied. Its recommended that you use a temporary shim, or spacer, under the base of the lower hinge guard while installing the door.

**Preparing the Hinge Rail:** Place the Lower Hinge Guard (2) into the lower corner of the Jamb/Door. See Figure 2. Center the Lower Hinge Guard with the Jamb as shown in Figure 1 and mark holes on Jamb with pencil or center punch. Place the V-Cam Assembly (1) in the upper corner of the Jamb/Door as shown in Figure 3. Center the V-Cam Assembly with the Jamb/Header and mark holes with pencil or center punch. Drill the marked holes on Jamb and Header with appropriate diameter drill bit. NOTE: Hinge Guard is Optional.

**Step 2. Upper Hinge Assembly**

Remove the Roller Assembly (3) from the Upper Hinge Post (6). Do not remove the Bushing (8). Place the V-Cam Assembly (1) over the Upper Hinge Post (6). Slide the Roller Assembly (3) onto the Upper Hinge Post above the inside rail of the V-Cam oriented with the bearing face diameter down (see Figures 2 & 4). NOTE: Do not tighten Cap Screws on the Roller Assembly at This Time.

**Step 3. Mounting Door in Opening**

Lift the door panel up and slide the Lower Hinge Post (7) into the top hole of the Lower Hinge Guard (2), see Figure 1. Place the completed door assembly into the Jamb and screw up with the pilot holes drilled and placed into the Jamb. It may be necessary to slide the V-Cam and Roller Assemblies down on the hinge post to fit the entire panel assembly into the Jamb. Once inside the Jamb you can lift the V-Cam and Roller Assemblies by the upper corner as indicated by the Arrow in Figures 3 & 4. Insert 1”/32” Tek Screws (11) into the V-Cam Holes at the Jamb and tighten securely. (The 11”/32” Tek Screws at the Header are Optional). Insert four 1 1/8” Tek Screws (11) into the Lower Hinge Guard (2) mounting holes and tighten securely.

**Step 4. Setting Door Springs**

Lift the door panel and place the Door Adjusting Shim (5) between the Lower Hinge Guard (2) and the lower hinge cutout on the door panel, see Figure 1. IMPORTANT: **Do Not Allow Door Adjusting Shim To Rest On The Bushing**! Lift the roller bearing to the lowest point on the V-Cam (closed position). While holding the roller bearing as low as possible to the bottom of the panel (5) with the centers of the roller bearing and tighten the Top Cap Screw on the Roller Assembly (3) securely, see Figure 5. Lift the door completely and let it go, allowing the door to rest in the center of the opening. Once the door is centered the lock is completely closed you may proceed to Step 5: WARNING! FAILURE TO COMPLETE THE INSTALLATION OF THE ROLL PIN AS DIRECTED IN STEP 5 OF THESE INSTRUCTIONS WILL VOID ANY AND ALL WARRANTIES ON THIS PRODUCT!

**Step 5. Roll Pin Installation**

Wipe a Paper Towel on the inside of the V-Cam (1) at the post. This will prevent aluminum and metal shavings from entering the bushing when drilling the hole. Use the 5/16” Drill Bit (4) in the Hardware Pack. Do Not Substitude, to drill a predator hole completely through the roller assembly (3) at the conical point shown in Figures 6 & 7. Roll Pin. NOTE: The Drill Bit and Allen Wrench will be in the RIGHT SIDE HARDWARE PACK for Double Door Parking Doors.

The 5/16” Hole must Go Completely Through The Aluminum Roller Assembly & Hinge Post, See Figure 10. Locate the 5/16” Roll Pin supplied in your hardware package. Using a Hammer, gently tap the roll pin into the 5/16” hole until an equal amount of roll pin is showing on each side (approx. 1/2”). See Figure 10.

**Step 6. Hinge Seal Installation**

Make Absolutely Sure that the Snap Bushing (8) is pressed all the way down to the bottom of the Upper Hinge Shaft (6) with the Flanged Side Up, see Figure 7A. Snap the Hinge Seal Ring (9) firmly in your hand with the opening away from you and toward the Upper Hinge Shaft (6), as shown in Figure 7A & B. Press the Hinge Seal Ring onto the Snap Bushing directly below the Flange.

**IMPORTANT NOTE:** The Hinge Seal Ring (9) should rotate freely around the Snap Bushing and Upper Hinge Shaft. If the Hinge Seal Ring does not rotate freely, it may be necessary to remove the Hinge Seal Ring and scrape the inside edges of the door frame. Locate the Hinge Seal Wrap (10), Hold the Hinge Seal Wrap (10) with the straight edge toward the header as shown in Figures 1 & 7A. Place one side of the Hinge Seal Wrap at the back edge of the V-Cam Assembly (1) and line up the mounting holes in the Hinge Seal Wrap with the two mounting holes on the basic center of the V-Cam Assembly. Insert two of the 5/16” x 1/2” Tek Screws (12) through the holes in the Hinge Seal Wrap and into the V-Cam Assembly, **DO NOT COMPLETELY TIGHTEN THE SCREWS AT THIS TIME**.

Slide the free end of the Hinge Seal Wrap through the opening between the V-Cam Assembly and the Door Panel. Line up the mounting holes and insert two of the 5/16” x 1/2” Tek Screws (12). The 5/16” x 1/2” Tek Screws must all reside on the sides of the V-Cam Seal Ring (9). Adjust any additional necessary adjustments to ensure that the Hinge Seal Ring moves up and down freely without binding. Hold the top of the Hinge Seal Wrap so it comes in contact with the header and tighten the (10) 5/16” x 1/2” Tek Screws securely. DO NOT OVER TIGHTEN THESE SCREWS OR YOU WILL DAMAGE THE HINGE SEAL WRAP!

**Step 7. Top Seal Assembly**

The Top Seal (13) is cut to length at the Factory (some trimming may be Required). Remove the Paper from the Double Faced Tape on the back side of the Top Seal. Place the Top Seal in the center of the header with the Taped Side Up. See Figure 8. Top Seal must Fit between the Hinge Seals on Double Doors and between the Hinge Seals and Extruded Jamb on Single Doors. Once the Top Seals are placed in the desired position, Insert the 24 x 1 1/16” Tek Screws (16) and tighten securely. You may wish to drill holes into the top seal as a template.