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Assembly Instructions Manual Crank Vertical Vinyl Curtain Door “Projection Mount”

Valued Shaver's Customer: We have pre-assembled the roller, valence, and bracketry components for your door system. This should dramatically simplify the installation procedure. While the installation is very straightforward, please note the following details.

System Overview:

Your Shaver's Manual Crank Vertical Curtain Door is a high quality, high performance flexible door system based on proven components and our many years of experience in the vinyl partition fabrication business. We are confident that it will bring you and/or your customer years of reliable and trouble-free service.

Your specific system is a vinyl roll-up curtain door with projection-mount bracketry. The design dimensions for your door were based on the field survey information that we had available for your door configuration. Should the sizes be incorrect or if you experience difficulty with the installation of your door please contact the factory. Field modifications for changing the width or height of the finished door are very difficult and it is usually best to return the unit to the factory for the appropriate changes. Note that the vertical extrusions are cut to the same height as your stated door opening, which will place the entire aluminum roll, upper bracketry, and valence box above the door header.

Unpacking and Inspection:

Please unpack your systems carefully and notify the factory immediately if there are any shortages or if any items have been damaged during transit. Your kit(s) should have all of the necessary hardware and components for a complete installation with the following exceptions (installer-provided hardware):

1. Mounting hardware for securing the custom extrusions bracketry to the building fascia.

System Assembly:

Roll-Tube Enclosure Mounting:

Prior to installing the Roll Tube Enclosure the projection supports must be firmly mounted to the fascia of your building. To determine the mounting locations for the supports it is first necessary to measure the “ear to ear” distance on your assembled enclosure as shown in the following photo (Photo 1). This dimension will typically be a few inches wider than the installed width of your existing overhead door tracks. This dimension will be referred to as DIM “A”.

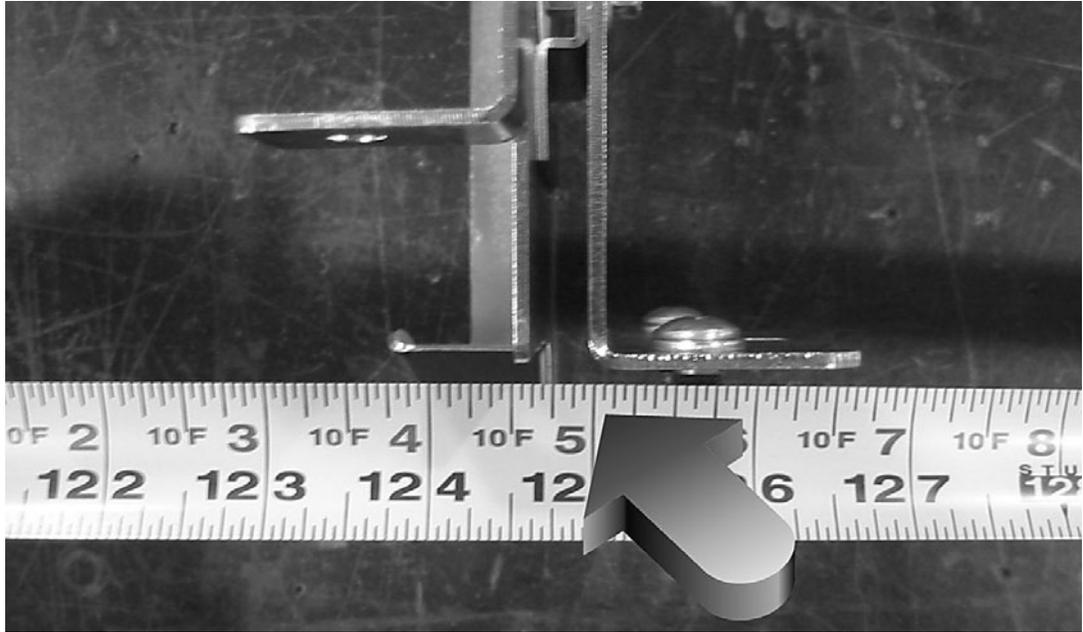


Photo #1
(Measuring Dim “A”)

Now measure the length of your Shaver's Custom Vertical Extrusions. This dimension will typically be the same as the vertical height of your door opening. Subtract 1¼” (1.25 inches) from this length. This dimension will be referred to as DIM “B”.

Secure the projection supports to your building fascia per the following diagram (Diagram 1). The width of the mounting locations (DIM “A”) should be centered about your existing door opening or overhead door track locations. Use a strong and rigid fastening method since there will be a substantial cantilever load applied to these supports.

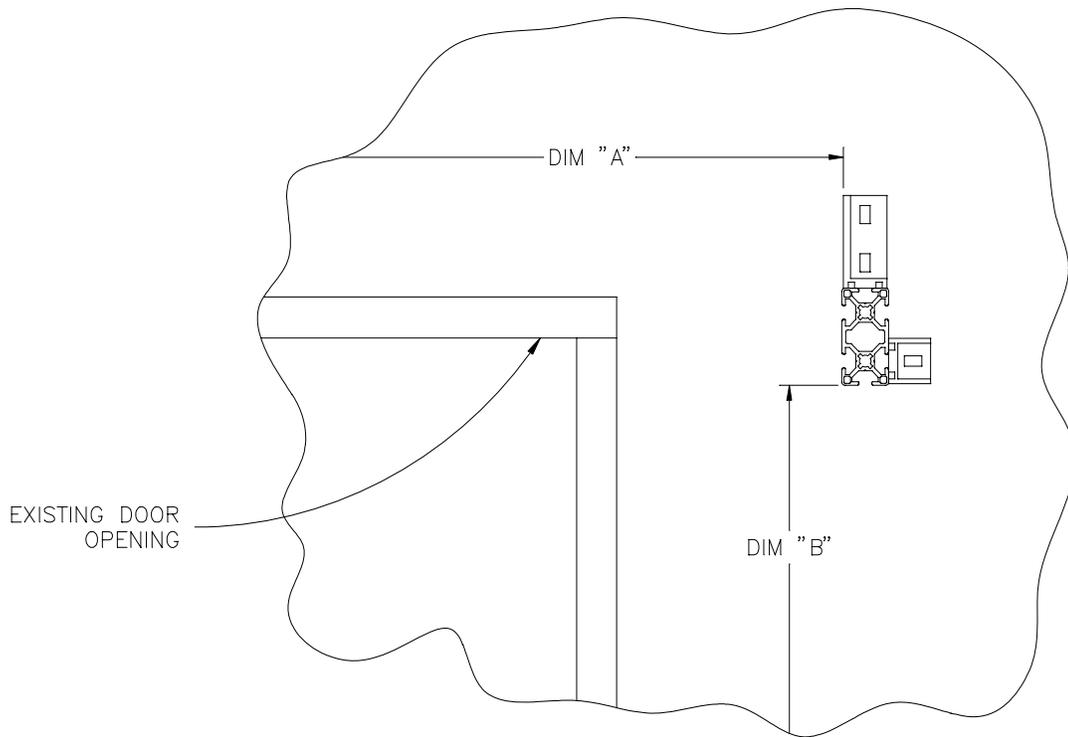


Diagram #1

(Projection Support Mounting Location)

When you're done your projection support installation should resemble the following photo (Photo 2):



Photo #2

(Projection Support Mounting)

Before installing the Roll Tube Enclosure orient the “T-Nuts” so that they will easily drop down into the slots in the projection supports. This can be accomplished by loosening the four 1/4 -20 Phillips head fasteners and rotating the “T-Nuts” as shown in the following photo (Photo 3):

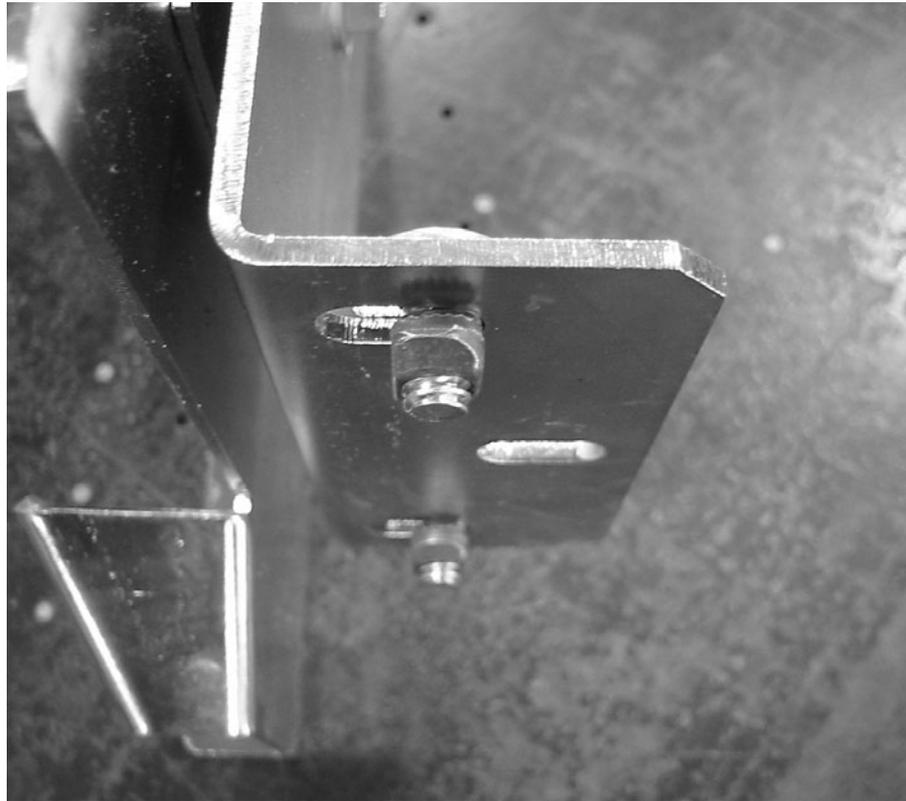


Photo #3
(T-Nut Orientation)

The Roll Tube Enclosure can now be installed by carefully placing it on top of the projection supports. The Roll Tube Enclosure should be orientated so that the Shaver logo on the valence faces away from the door opening. Ensure that the T-Nuts drop down into the slots in the projection supports. Slide the Roll Tube Enclosure along the projection support until there is approximately 1” of clearance between the enclosure and the existing overhead door tracks. Your installation should resemble the following photo (Photo 4) (NOTE: the following photograph is of a motorized unit, your unit will no have a power cord and there will be a gearbox assembly mounted to the bracketry):

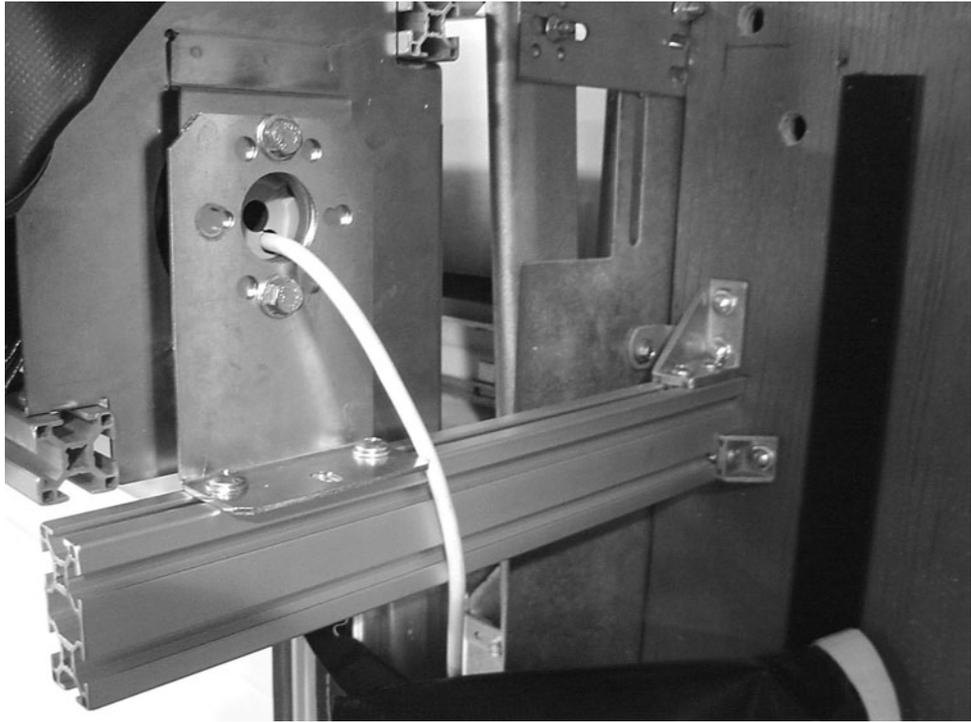


Photo #4
(Roll Tube Enclosure Installation)

Secure the Roll Tube Enclosure brackets to the projection supports via the T-Nuts. This can easily be accomplished by loosening the ¼-20 Phillips head screws a few turns, and then re-tightening them completely. Ensure that the T-Nuts have properly rotated and are fully engaging the slots in the projection supports. See the following photo (Photo 5):

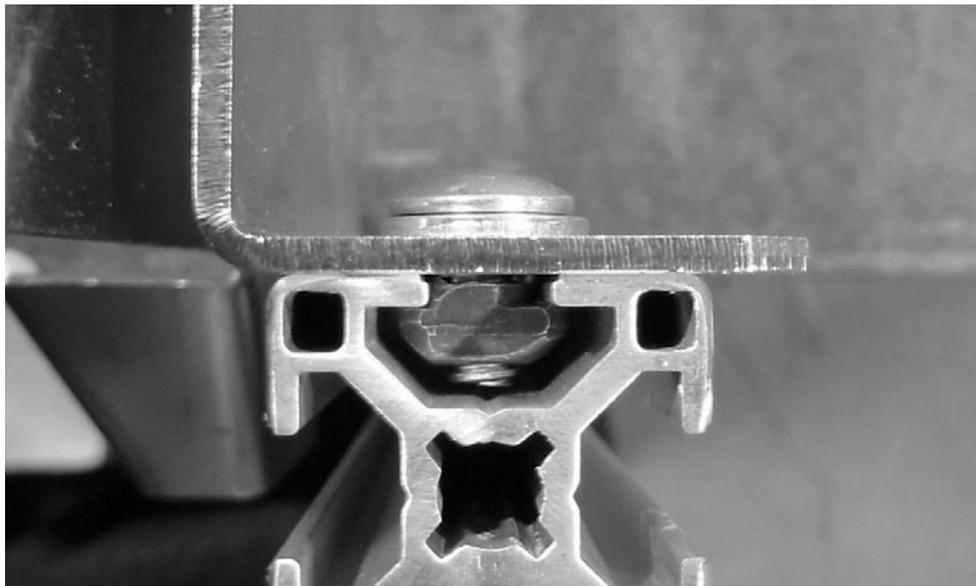


Photo #5
(T-Nut Engagement)

Vertical Extrusion Mounting:

The Vertical Extrusions mount to the upper projection support and are further supported by projection bars mounted at their base and approximate midpoint. The proper orientation of the Vertical Extrusions is crucial to the proper operation of your door assembly. Please refer to the following diagram (Diagram 2) for the correct orientation:

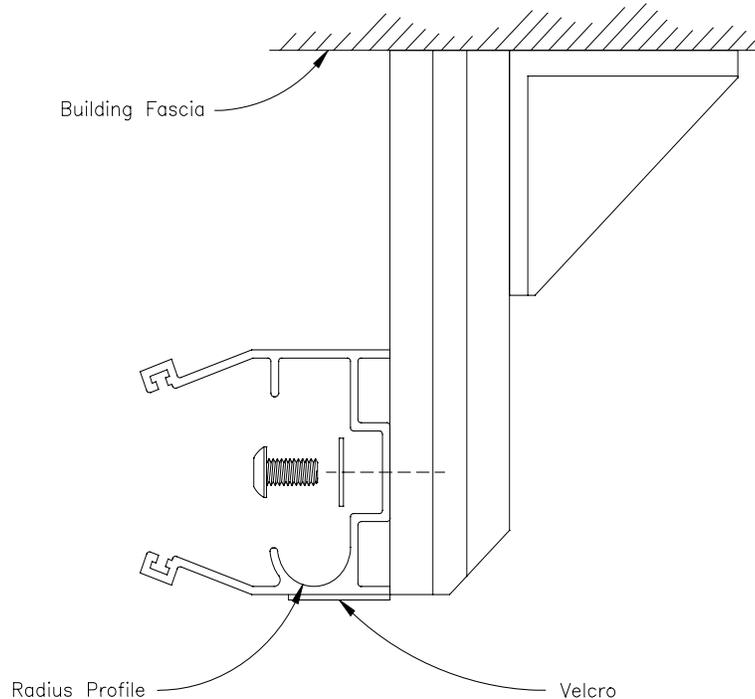


Diagram #2
(Vertical Extrusion Orientation)

After selecting the proper Vertical Extrusion and ensuring its orientation, secure it to the projection support as shown in the following photo (Photo 6)(EPDM seal strips removed for clarity). Use the slots in the projection support and Roll Tube Enclosure mounting brackets to adjust the units so that there is a smooth and uniform transition between the “funnel lead-in” on the enclosure bracketry and the Vertical Extrusion. Any abrupt transition may “snag” a door wheel and cause the door to malfunction. Manually unwrap one to two turns of material from the roll and check the engagement and transition of the roller from the side brackets into the custom extrusion. Adjust and/or shim the brackets or vertical extrusions as required to ensure a smooth and repeatable roller transition into the extrusion. See Photo 7.



Photo #6
(Bracketry to Extrusion Transition)



Photo #7
(Roller into Extrusion Transition)

Locate the lower extrusion mounting projection bar. The lower unit has a full-size (four fastener) corner gusset and is occasionally shorter than the midpoint unit. Secure the bar to the bottom hole in the Vertical Extrusion and then mount the bar gusset firmly to the building fascia per the following photo (Photo 8). Ensure that the Vertical Extrusion is completely vertical (left to right) before securing the gusset to the building. The Vertical Extrusions must be parallel to one another within $\frac{3}{4}$ " (.75 inch) from proper operation of the curtain door.



Photo #8
(Bottom Support Bar Mounting)

Select an appropriate location at the approximate midpoint of the Vertical Extrusion for mounting the center (mid) projection bar. It will be necessary to drill a $\frac{1}{4}$ " (.25 inch) hole through the extrusion for the fastener. The center projection bar only uses a half-size (two fastener) corner gusset. Be very careful when drilling the Vertical Extrusions as to not damage the EPDM seal strips. The assembly should resemble the following photo (Photo 9):



Photo #9
(Bottom Support Bar Mounting)

Repeat the above procedure for the other Vertical Extrusion. Double check the parallelism of the two Vertical Extrusion and ensure that they are within $\frac{3}{4}$ " (.75 inch). The angle of the Vertical Extrusion with respect to the building fascia can be adjusted using the slots in the projection bars. If the angle is extreme it may be necessary to adjust the mounting angle of the Roll Tube Enclosure to ensure a smooth transition between the funnel lead-in and the tops of the Vertical Extrusions. The mounting holes in the angle brackets on the Roll Tube Enclosure are slightly slotted, and it is possible to adjust its angle by loosening the mounting bolts/nuts and rotating the entire enclosure as shown in the following photo (Photo 10). Be sure to re-tighten the fasteners after the adjustment has been made.

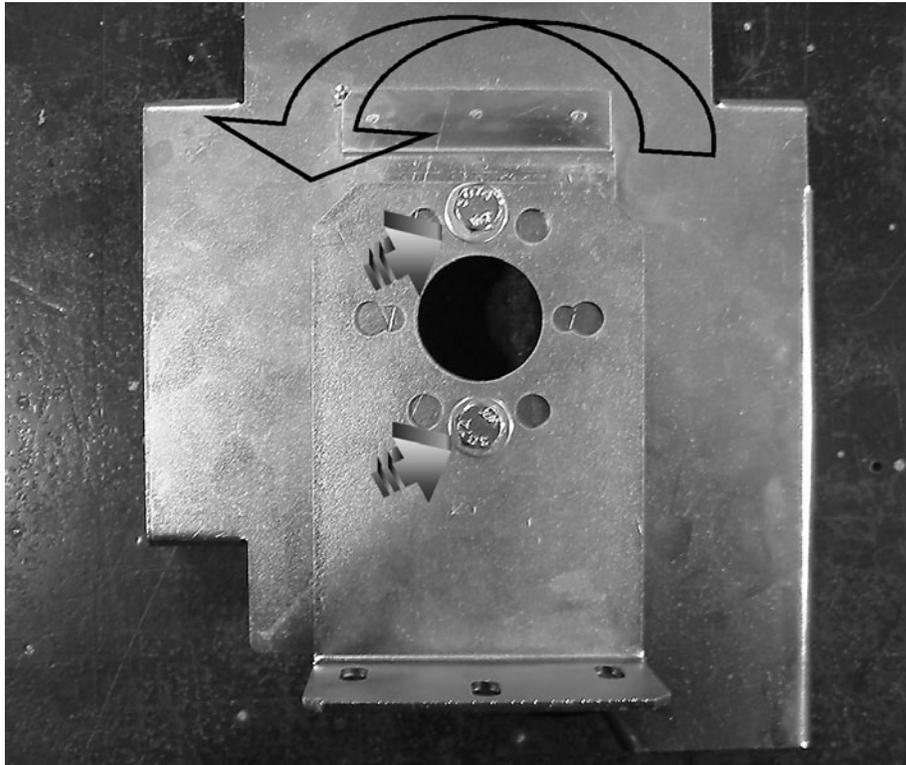


Photo #10
(Rotating Enclosure Bracketry)

At this point the curtain door should be slightly “unrolled” and the bottom set of rollers should be engaged with the vertical extrusions.

Final Mechanical Assembly:

Door-Seal Modification:

We have installed a moly-filled nylon “flap-seal” on the rear of the Roll Tube Enclosure to provide a bridge between the projection mount and your existing overhead door. This seal can easily be trimmed with a standard scissors to create clearance for items such as your vertical overhead door tracks. The overall extension of the flap-seal can also be adjusted (via trimming) to create a reasonable amount of deflection (typically about ½” interference) when it contacts your overhead door. Please see the following photos (Photo 11 & 12) for a typical installation:

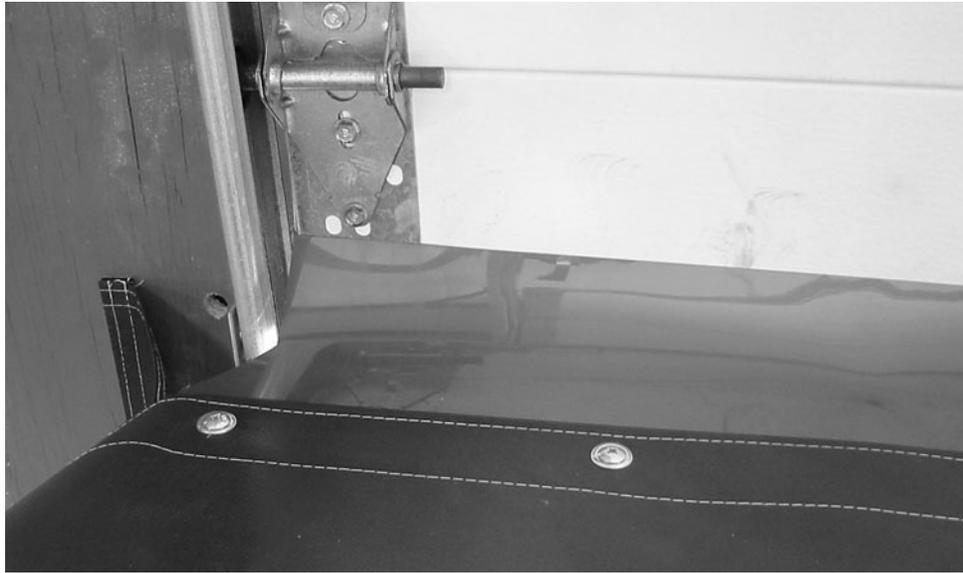


Photo #11
(Flap Seal Modification)



Photo #12
(Flap Seal Deflection)

Side Seal Installation:

We have provided you with two vinyl side-seals to bridge the gap between the Custom Vertical Extrusions and the fascia of your building. These seals may have a taper profile which is designed to match the anticipated installation angle of your specific installation. One vertical edge of the side seal (the edge with the “notch”) will attach to the Vertical Extrusion via the “Velcro™” style loop fastener that has been pre-installed on the edge of the extrusion. For the other vertical edge we have included a number of 4’ (four foot) sections of Velstick™ industrial loop material. This material can be cut to the appropriate length and attached to the fascia of your building via any “best practices” methodology. Typical attachment processes include nails, sheet-metal screws, industrial double-faced adhesive tape, and construction adhesives. The Velstick™ should be installed just “outboard” of the projection bar gussets as shown in the following photo (Photo 13):



Photo #13
(Velstick Installation)

With the side-seals installed you should have a configuration that resembles the following photo (Photo 14):



Photo #14
(Velstick Installation)

We have also included a number of sections of adhesive-backed “hook and loop” fasteners which should be used to attach the side flap of the Roll Tube Enclosure vinyl cover to the top section of the side-seals. This will create an integrated and “finished” appearance.

Final Setup and Operation:

Operation:

The operation of your Shaver's Manual Crank Vinyl door is quite simple, although a little training is sometimes required.

To lower the door, simply operate the hand crank (brace) until the bottom of the door contacts the floor. To raise the door, rotate the hand crank in the opposite direction. Stop when the bottom set of door rollers are at the top of the custom vertical extrusions. There are no “hard stops” built into the system!

Warning: The curtain door is attached to the roller tube with Velcro™ for ease of field replacement. There is an additional “safety wrap” of approximately 18” of material around the roller tube when the door is in the fully closed position. If an operator continues to crank the door down after it has reached the closed position it is possible for the Velcro™ to “unzip” allowing the door to become detached from the roller tube. If this happens it will be necessary to reattach the vinyl door to the roller tube.

The assembly, installation, and set-up of your Shaver's Manual Crank Curtain Door is now complete and it is ready for typical operation. It is a virtually maintenance free unit and should give you years of reliable service.

We want to thank you again for your business and the opportunity to partner with your firm on this project. Please don't hesitate to contact us if you have any questions regarding these instructions or encounter any problems with the installation or performance of your door.

Addendum

Installation of Track Rollers after the Motor Tube is Mounted:

The track rollers can easily be installed after the Aluminum Tube and Curtain Assembly have been mounted. The rollers can be installed on one side and then the other, or on both sides simultaneously. To install a roller into one of the middle pulltrusion (stiffener) tubes, crank the door until the pulltrusion pocket is approximately 8” below the junction of the bracket “funnel” and top of the custom extrusion. Pull the edge of the pulltrusion pocket out of the track and clear of the edge of the building. Locate the nylon bushing at the end of the pulltrusion tube and slide the shaft of a roller into it as indicated in the following photo (Photo 15):



Photo #15
(Roller Installation)

Raise the roller up, slide it across the face of the Gearbox or Idler bracket, and drop it into the “funnel” of the bracketry as shown in the following photo (Photo 16):



Photo #16
(Roller Into Funnel)

Repeat this procedure for the remaining pulltrusion tubes, including the bottom tube directly above the chain pocket. Ensure that the rollers enter the custom extrusion properly and that the edges of the curtain “pop” into the extrusion and/or EPDM seals.