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Installation Instructions Harsh Guard Door “Face Mount with External Operator”

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

System Overview:

Your Goff's Vinyl 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 customers' years of reliable and trouble-free service.

Your specific system is a vinyl motorized roll-up curtain door with face-mount bracketry and an external operator. The “back-to-back” mounting dimension for your vertical extrusions will be the door opening width plus approximately 8” (eight inches). The vertical extrusions are cut to the same height as your stated door opening, which will place the entire motorized 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 and external operator to the building fascia.
2. Hardware and conduit associated with the professional electrical installation of the 115VAC source power.

System Assembly:

Site Preparation:

It is imperative that the heavy duty bracketry for your door assembly is mounted to a flat and uniform surface. Mounting the door to an uneven surface can cause the bracketry to bend and distort, causing improper door operation and premature failure.

Sections of vinyl stripping are in place to stop the vinyl door from unrolling during installation. DO NOT remove these straps until after the operator has been installed!

Lay the upper box section of your door on a flat surface and measure the “back-to-back” angle bracket dimension for your specific door as shown in the following photo (Photo 1). In this specific case the dimension is 106”.



Photo #1

(Angle Bracket Back-to-Back Dimension)

Divide this number by 2 (53” in this specific case). This will be your “A” dimension.

Lay one of your custom vertical extrusions (side rails) on a flat surface and measure the overall length of the extrusion as shown in the following photo (Photo 2). In this specific case the dimension is 143.75” (143 ³/₄”).

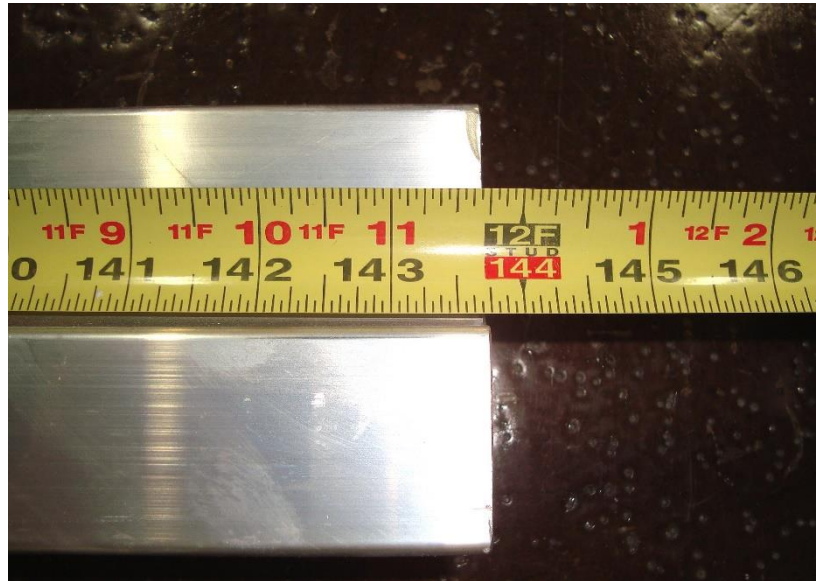


Photo #2

(Extrusion Overall Length Dimension)

Add .25" ($\frac{1}{4}$ ") to this dimension (144" in this specific case). This will be your "B" dimension.

Make a mark on your building fascia "A" inches to the right from the top centerline of your door opening. This mark will correspond to the approximate edge location for your angle bracket. Repeat this process to the left of your opening centerline.

Make a horizontal line on your building fascia to the left and right of your opening at "B" inches from the ground surface. This line will correspond to the bottom edge of your angle brackets.

The angle brackets have a footprint of approximately 3" to each side of the "A" mark and 14" above the "B" line as shown in the following diagram (Diagram 1). Make sure that this area is smooth, flat, and even.

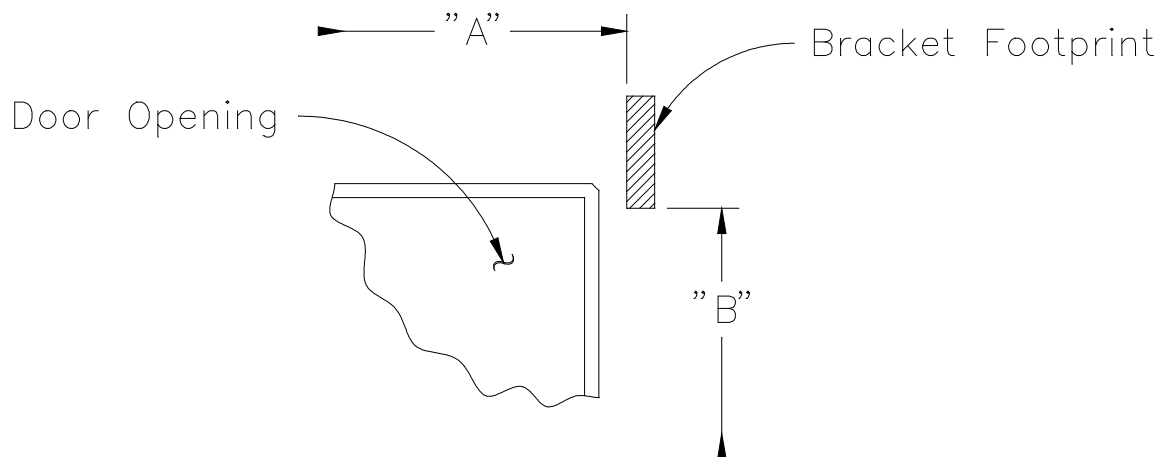


Diagram #1

(Angle Bracket Mounting Footprint)

Upper Box Mounting:

The Upper Box Section of your door is best installed by two people with individual ladders, one person and a scissors lift, or some other mechanism for raising and holding the box in position while it is being secured to the building fascia. The box section should not be bent or distorted while it is being mounted.

Raise the box section to the elevation of your opening header and use the “A” marks to center it about your door opening. Carefully adjust the elevation of the box ends until the bottoms of the angle brackets are in alignment with the “B” lines. Secure the left bracket to your building fascia using one fastener and washer as shown in the following photo (Photo 3). The specific fastener type will be a function of your building material, but each fastener should be at least ¼” in diameter and capable of handling at least 100lbs of shear and pull force.

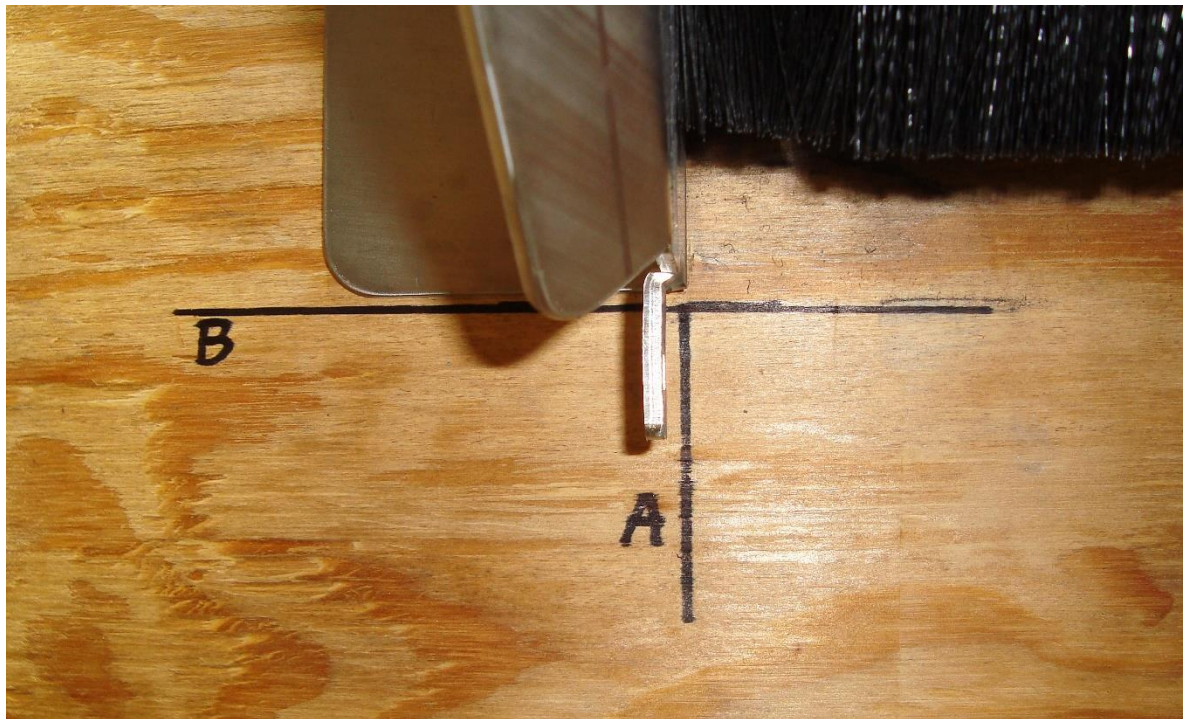


Photo #3

(Angle Bracket Alignment and Mounting)

Repeat this procedure on the right bracket. Double check the alignment of the door brackets and ensure that the box structure is not bent or distorted. Install the remaining four fasteners and washers in the angle brackets.

Vertical Extrusion Mounting:

The Custom Vertical Extrusions will first be secured to the angle brackets on the upper box section, and then secured to the building fascia via “J” brackets.

It is suggested that the galvanized brackets first be mounted to the extrusions. Typically one bracket is mounted approximately flush to the bottom end of the vertical extrusion and one bracket is mounted at the mid point. This can be accomplished by laying the extrusion

and the bracket on a flat surface, transferring at least one bracket hole location to the extrusion, drilling a .28" diameter hole in the extrusion, and securing the bracket to the extrusion with a 1/4-20 x .50 Pan Head Screw, 1/4" Flat Washer, and a 1/4-20 Hex Nut as shown in the following diagram (Diagram 2). Be very careful when drilling the Vertical Extrusions as to not damage the PVC seal strips and note the dimension for the proper location of the screw hole from the front "face" of the extrusion. There is a "drill start" groove inside of the extrusion which will help to locate the center line if you chose to drill the hole from the "inside" of the extrusion.

Alternately, for a "cleaner" installation or if there is insufficient door jamb for the standard mounting method, the "J bracket" can be flipped so that the mounting flange is "underneath" the extrusion (see Diagram 2). To do this, mount the Vertical Extrusion to the top bracketry per the instructions below, ensure the verticals are "plumb", mark the outside edge location of the vertical on the wall/jamb, remove the vertical, mount the J-bracket to the wall/jamb, reinstall the vertical and secure it to the J-bracket.

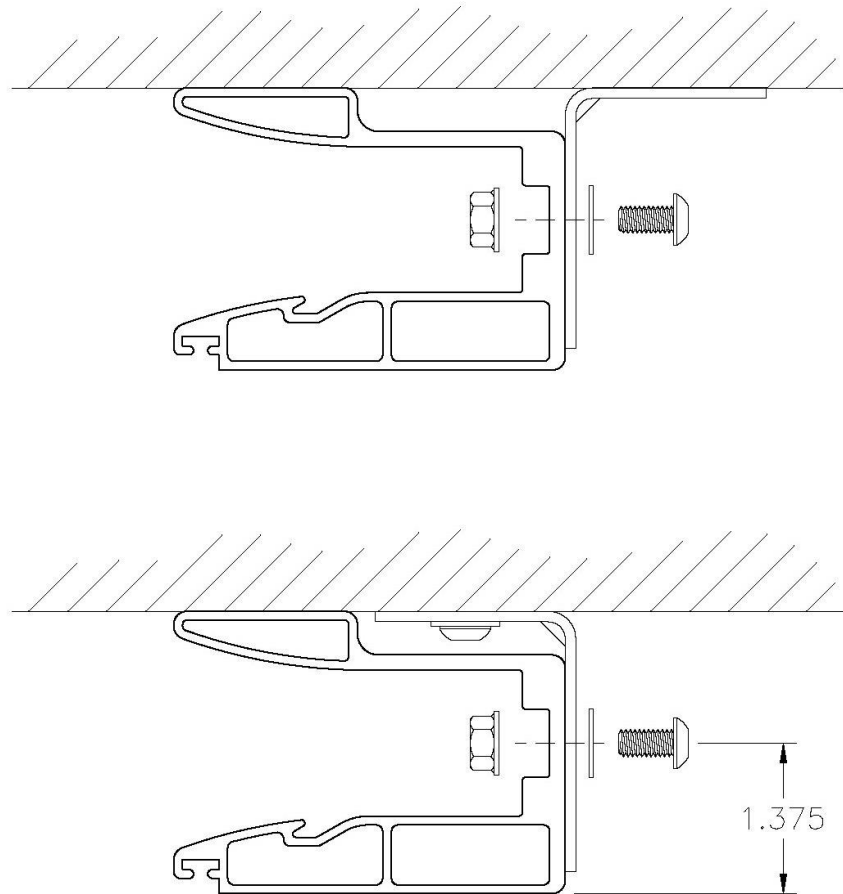


Diagram #2
(J-Bracket Alignment and Mounting)

Locate the left vertical extrusion (marked with a "TL") and orient it so that the extrusion is on the left side of your opening with the "TL" at the top and facing out. Secure the vertical extrusion to the angle bracket using the supplied 1/4-20 custom carriage bolt, nut and washer as shown in the following photo (Photo 4). Do not substitute any other fastener for the custom carriage bolt supplied.



Photo #4

(Vertical Extrusion Orientation and Mounting)

Use a Carpenters' level or a Plumb Bob to ensure that the left extrusion is completely vertical. Secure the "J" brackets to the building fascia using "best practices" as a function of the building material. The mounting should resemble the following photo (Photo 5):



Photo #5

("J" Bracket Mounting)

Orient the right vertical extrusion (marked with a "TR") so that it is on the right side of your opening with the "TR" at the top of the extrusion facing out. Secure the vertical extrusion to the angle bracket using the supplied 1/4-20 custom carriage bolt, nut and washer.

Use a tape measure to ensure that the left and right vertical extrusions are parallel ($\pm 1/2$ ") and secure the right extrusion "J" brackets to the building fascia using "best practices" as a function of the building material.

Harsh Guard Operator Preparation:

Carefully remove the Harsh Guard External Operator from its shipping carton. Use care when handling the operator as to not damage the plastic housing or capacitor mount. Locate the Operator Adapter Bracket, two M8 metric bolts, two lock washers and two flat washers. Do not confuse the two M8 bolts with the single 5/16-18 bolt that is also in the kit. Install the Adapter Plate as shown in the following photo (Photo 8) (Right-hand operator shown, install the adapter on the opposite side of the operator for Left-hand installations):

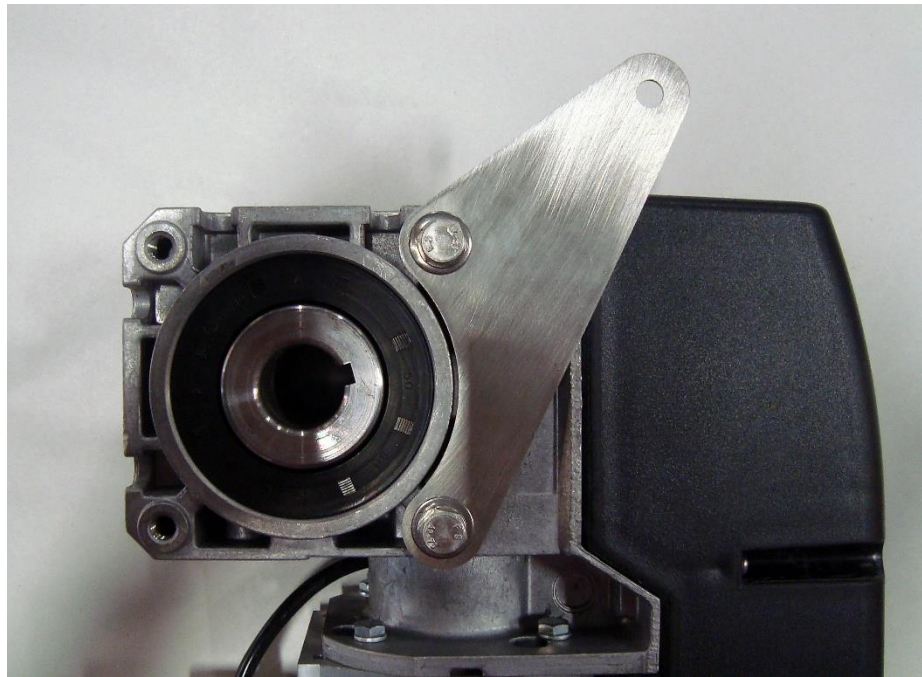


Photo #8
(Operator Adapter Plate)

Harsh Guard Operator Mounting:

Install the Hand Crank in the bottom of the operator. Ensure that the crank goes all the way into the plastic housing and rotate the crank until it fully engages the motor drive shaft. Rotating the crank should cause the 1" output quill drive on the operator to turn.



Photo #9
(Hand Crank)

Install the ¼” square key into the pocket slot in the Input Shaft, hold in place as required. Carefully lift the operator into place next to the Input Shaft. Using the hand crank, rotate the output quill until the keyway lines up with the key on the Input Shaft. Slide the operator all the way onto the Input Shaft. It may be necessary to rock the operator slightly in order to get it all the way onto the shaft. **Do not force the operator or use a hammer to get the unit onto the shaft!**

Rotate the operator until the hole in the Adapter Bracket is in alignment with the tapped hole in the upper box aluminum support. Secure the bracket to the support with the 5/16-18 bolt and flat washer as shown the in the following photo (Photo 10):

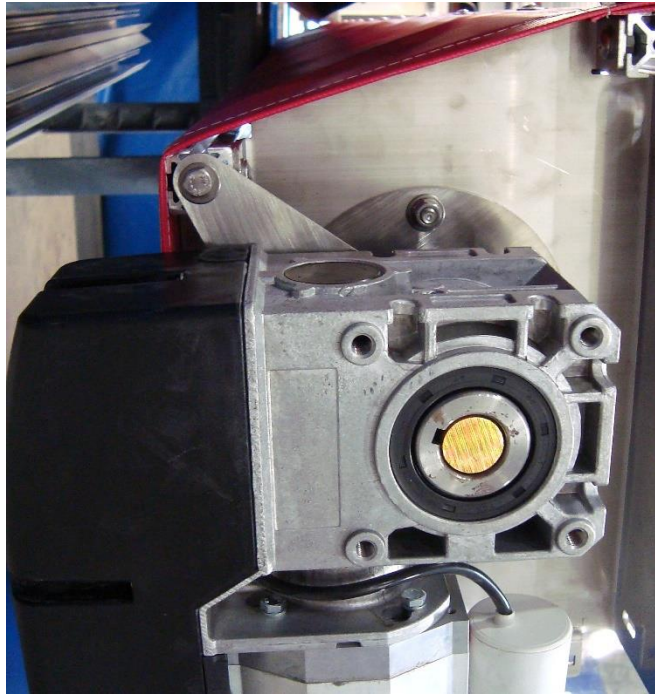


Photo #10
(Operator Fastener)

At this point it is now safe to cut and remove the vinyl safety straps. Carefully unroll the bottom of the door and guide the bottom door sweep (chain pocket) into the Vertical Extrusions on both sides of the door.

NOTE - See supplemental Instruction for:
“Electrical Connections and Motor Adjustments”.

WARNING

**ALL INSTALLATION INSTRUCTIONS MUST BE FOLLOWED, AND
CRITICAL ALIGNMENT REQUIREMENTS MUST BE MET: IN
ORDER
TO ENSURE THAT THE ROLL HEADER ASSEMBLY IS LEVEL,
AND THAT
THE TRACKS AND BRACKETS ARE ALL PLUMB, AND SQUARE.
FAILURE TO DO SO WILL ALTER THE PERFORMANCE
AND CONSISTENT OPERATION OF YOUR DOOR.**

LIMITED WARRANTY

Clean Guard Doors



Goff's Enterprises, Inc. warrants all High Performance Doors from failure in normal use due to defects in material or workmanship for a period of **THREE years** from date of purchase. This warranty includes **all parts and warranty related labor** as approved by Goff's tech support team. Goff's Enterprises, Inc. may elect to repair or replace defective or damaged goods.