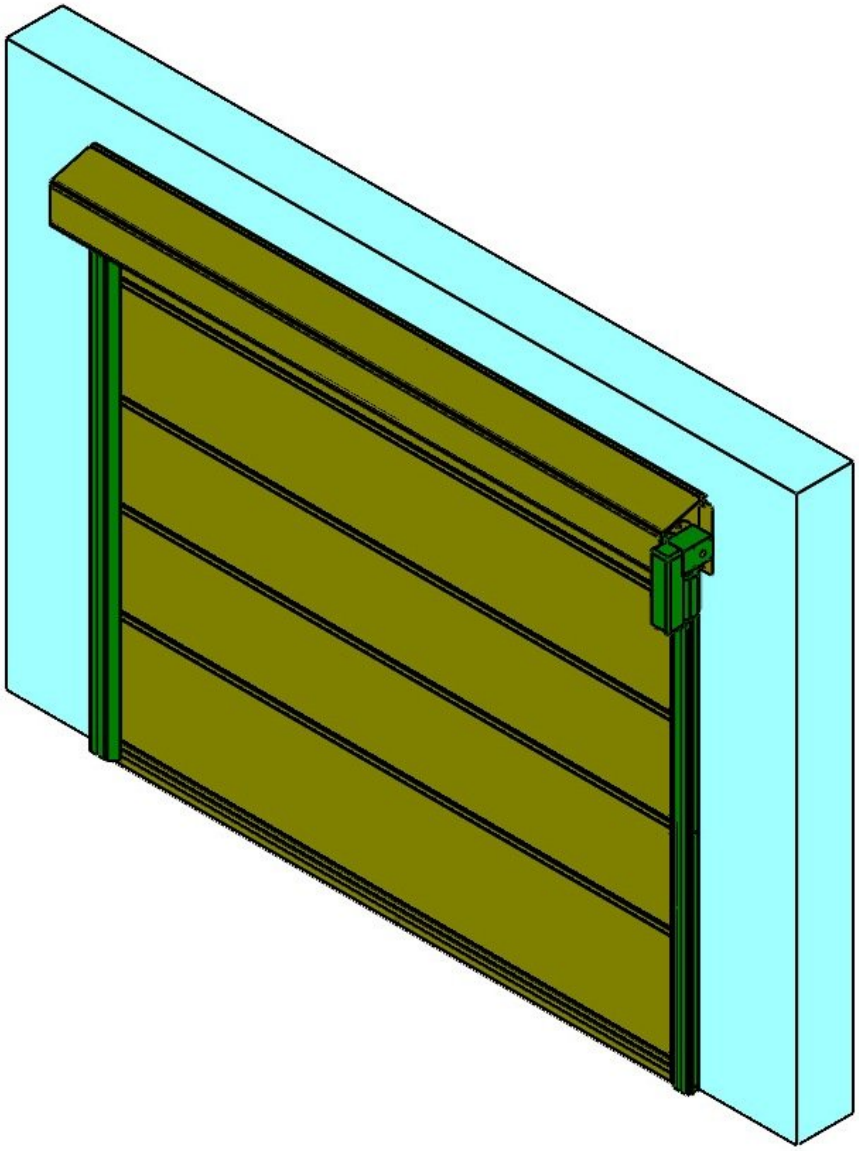
Wash Guard Plus Door Installation

Wash Guard Plus Door Installation 123498

Written By: Todd Lucas



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Step 1 — Review Product and Warnings

ATTENTION

Thank you for purchasing from Goff's Enterprises, Inc. To ensure maximum functionality and longevity of your product, please carefully review and understand this guide.

SAFETY WARNING

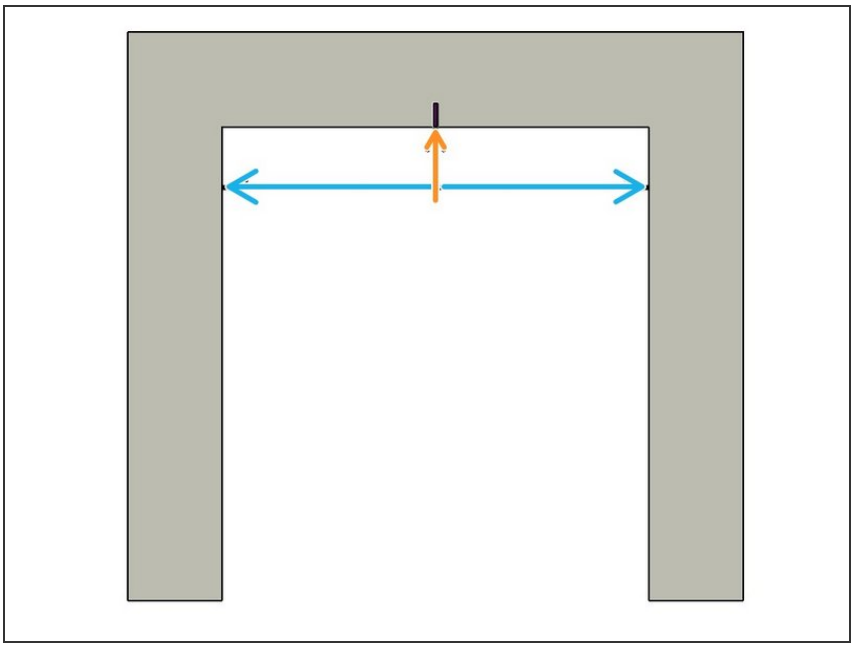
READ THIS MANUAL CAREFULLY. MOST INSTALLATION REQUIRES A LADDER AND TWO PEOPLE AT A MINIMUM. WEAR PROPER SAFETY GEAR AND CLOTHING. OBSERVE WARNINGS AND PRACTICE CAUTION WHEN INSTALLING, OPERATING, OR MAINTAING YOUR PRODUCT. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY.

ADDITIONAL SUPPORT

For additional assistance after reviewing this instruction, please reach out to our Technical Support Team using the contact information.

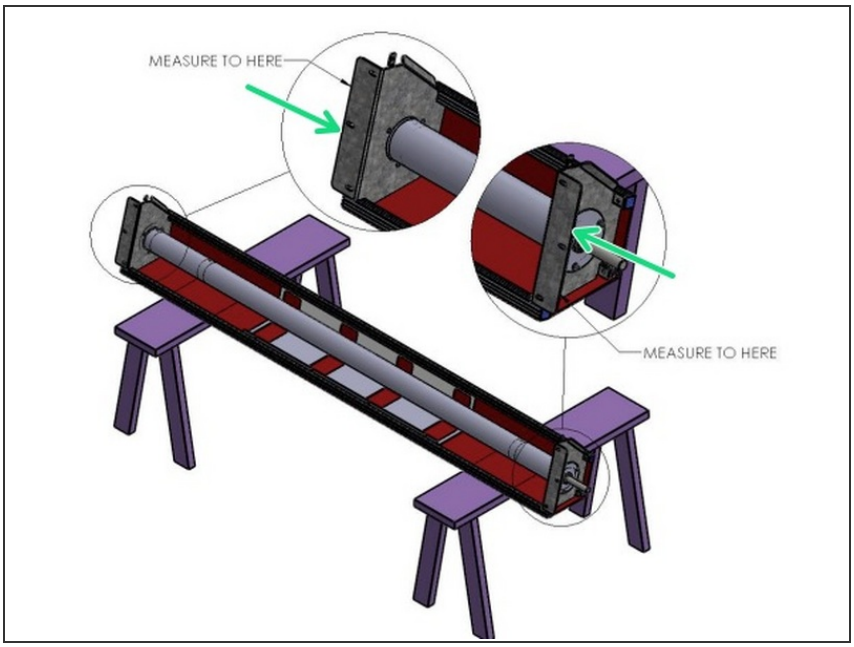
- **Technical Support Contacts:**
- Phone: 262-746-3374
- Email: techsupport@goffscw.com
- Website: http://www.goffsenterprises.com

Step 2 — Measure Opening and Mark the Centerline



- Measure the Opening Width near the top of the Opening.
- Divide that overall width measurement in half to find the Centerline location.
- Clearly Mark the Centerline location.

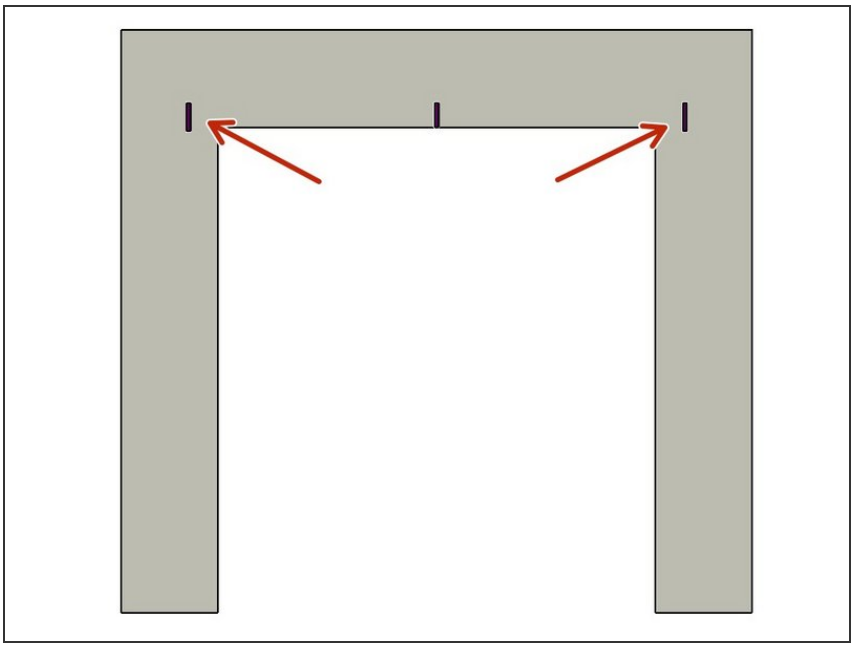
Step 3 — Measure Door Header Width



ⓘ The Header Measuring Process is identical for all Door Models. The Door Model you are installing may be different from the Model shown.

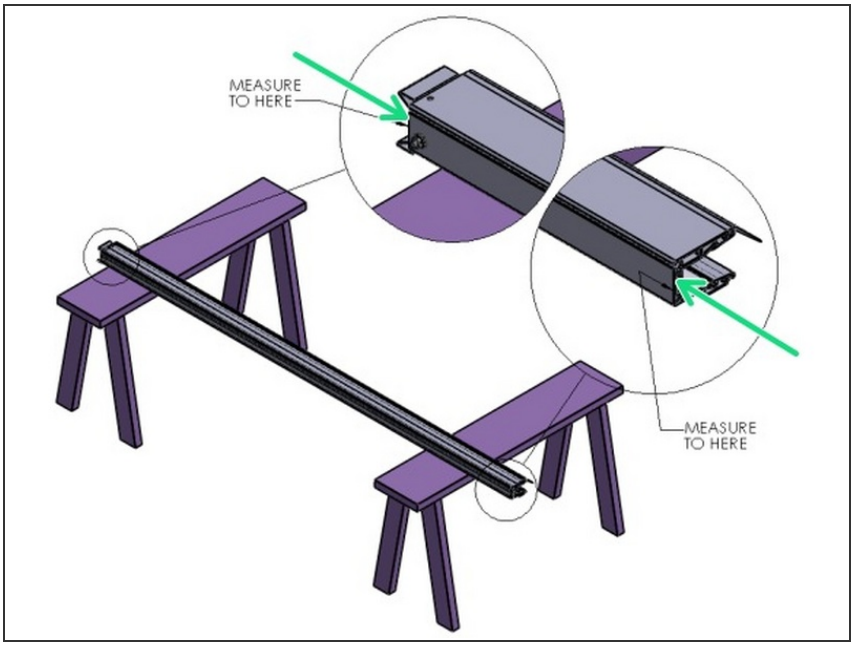
- Place the Door roll Header Assembly across a safe and level work surface, and rotate the roll assembly frame so that the Header Bracket Mounting flanges are facing upward.
- Measure the total width of the whole roll assembly from outermost edge of one Header Bracket's Mounting flange to the outermost edge of the opposite side.
- Divide that number by 2. This number is 1/2 of the Header Width, and is used to determine the Header location on the Left and Right Sides of the opening.

Step 4 — Mark the Header Width on the Opening



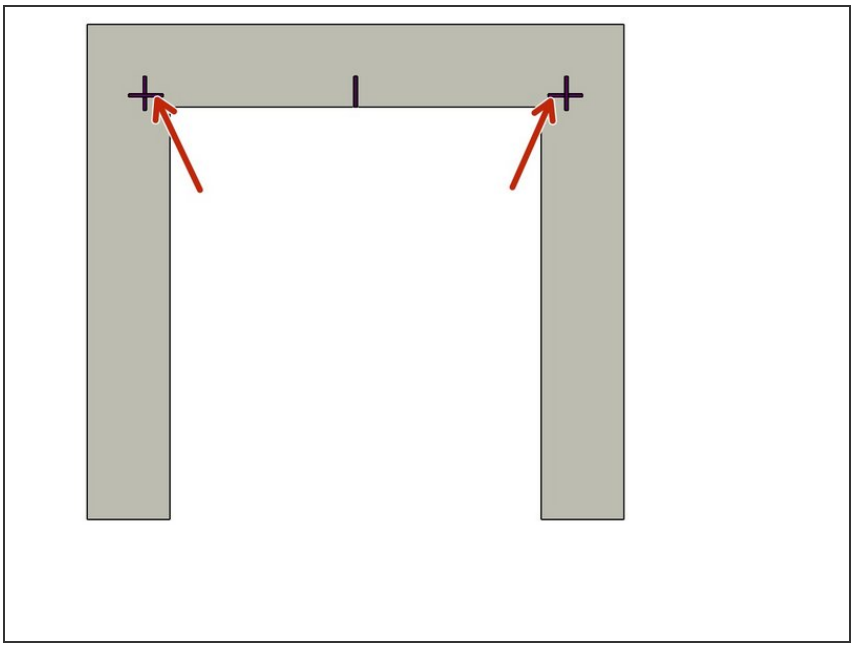
- Mark this dimension on each side of the Opening Center mark.

Step 5 — Measure Track Height



- Lay one of the Vertical Track Assemblies on your work surface.
- Measure the Length of the Aluminum Track only.
- Add 1/4" to the Track dimension.
- This is the Height dimension needed to mark the location of the Bottom edge of the Header Mounting Brackets.

Step 6 — Mark the Track Height on the Opening



- Add a Horizontal line on each side of the Opening that intersects the previously drawn Vertical line.

Step 7 — Raise and Attach Roll Header Assembly

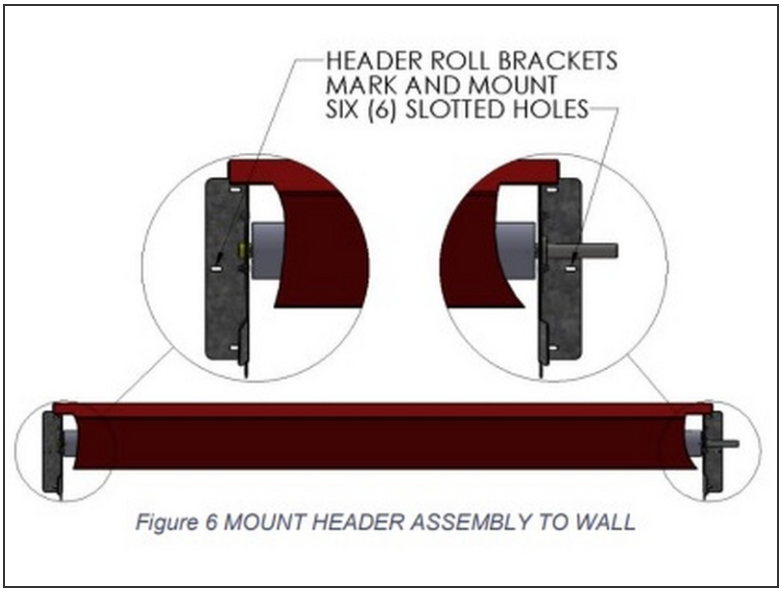
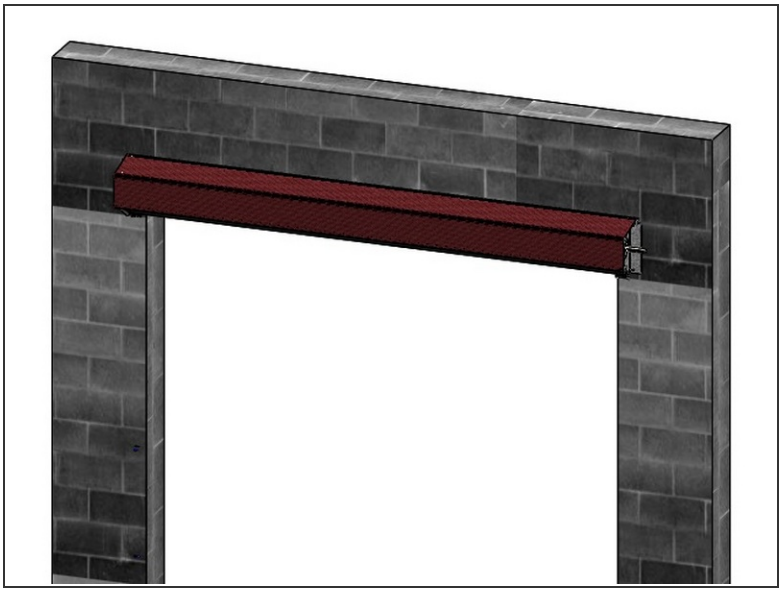
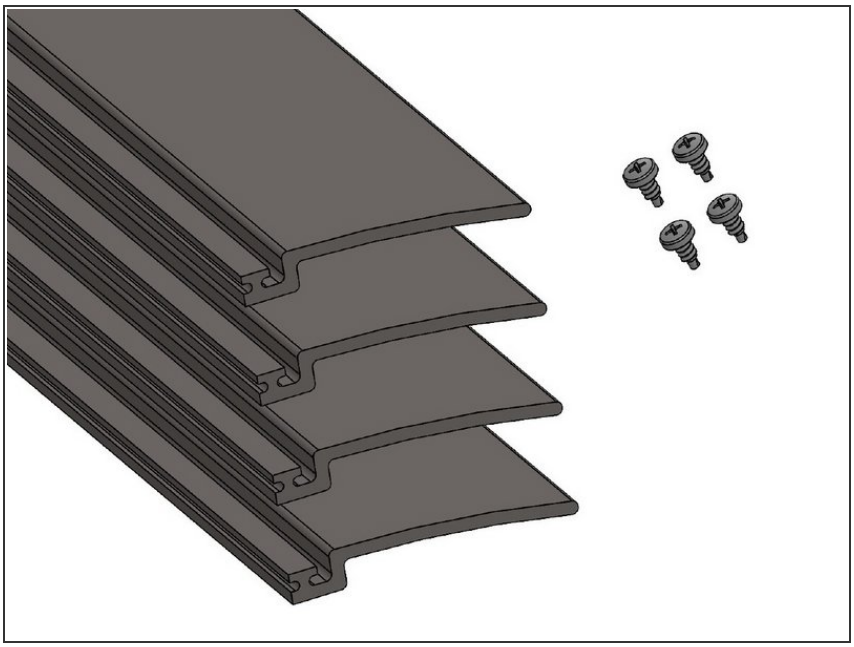


Figure 6 MOUNT HEADER ASSEMBLY TO WALL



- Using two (2) people, and two ladders at minimum, raise the Roll Header Assembly to fit between, and above, your markings on the wall.
- Trace the insides of the Header Bracket's three (3) mounting slots onto the wall surface.
- Be sure that the Mounting Bracket's bottom edge is on the height line, and that the outer edge is on your vertical/width line.
- Predrill pilot holes for the mounting hardware at the centers of the traced locations. Using adequate mounting screws or bolts (depending on your building/surface material) to attach the Roll Header Bracket to each side of the opening.
- Raise the Roll Header Assembly into place on the wall, and loosely secure with three (3) sets of mounting hardware per side using screws or bolts that are adequate to your building/surface material.
- Check the Header Assembly for level, and fully tighten all six sets of hardware.
- At this point leave the Roll Assembly tied off and held in place as it comes.

Step 8 — **Optional** - Mount Track Extensions



⚠ If you would like to mount the optional Track Extensions, please refer to the supplemental Track Extension installation instruction before proceeding. If not, proceed to the next step.

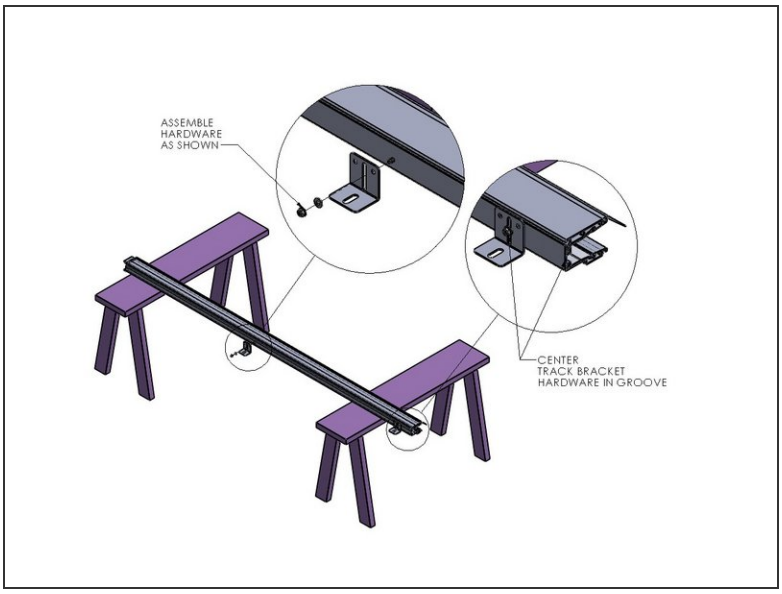
Step 9 — Overview Notes - G2 Track Installation

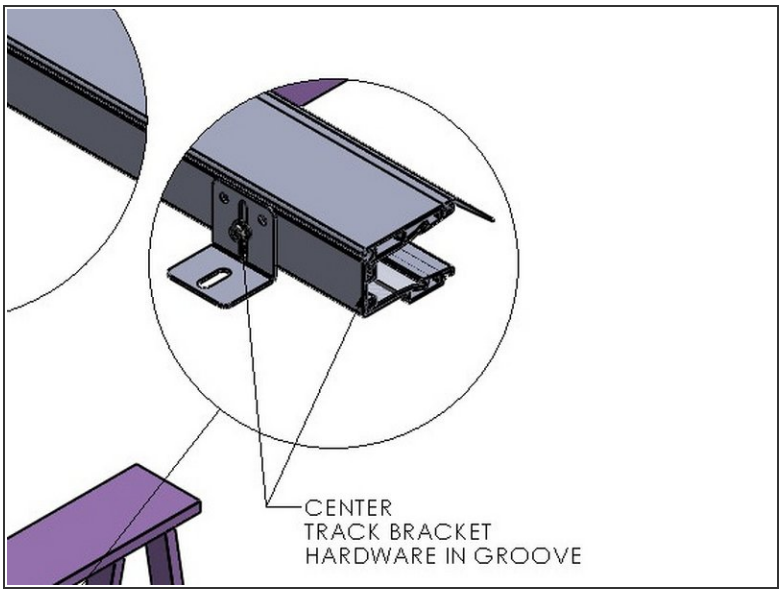
⚠ The Track mounts to the Outside of the Tab of the Header Mounting Bracket.

⚠ It is important to insert the Carriage Bolt from the Inside of the Header Bracket, and to install the Washer and Hex Nut on the Outside of the Track.

⚠ The Track must be plumb before securing it to the Mounting Surface.

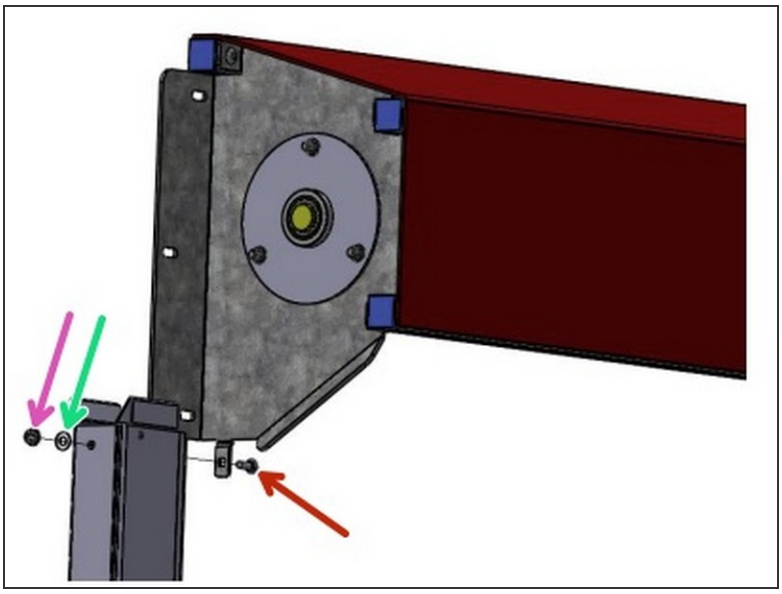
Step 10 — Prepare the Track Assemblies

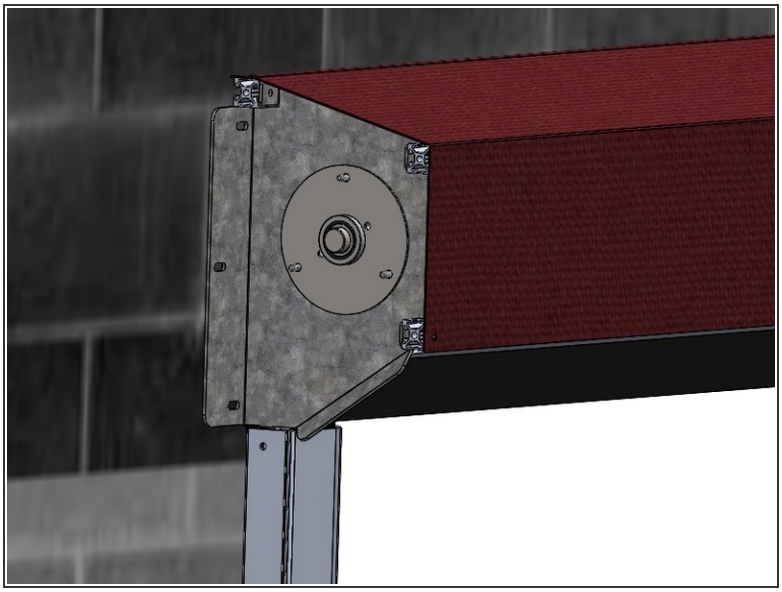




- Attach a Track Mounting Bracket to the Track in the hole located at the bottom.
- NOTE: For extreme cases, such as “High Wind Loads”, an additional Track Mounting Bracket (supplied) will be necessary.
- Mark and Drill the Track (.28-.31 dia) at 1.44” in from the front edge (i.e. centered in the groove), at about mid-height of the Track.

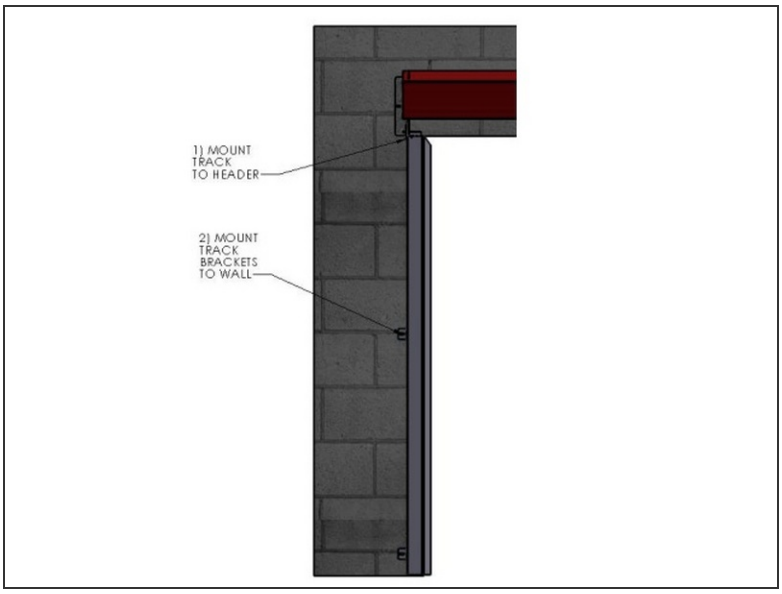
Step 11 — Mount the Track Assemblies

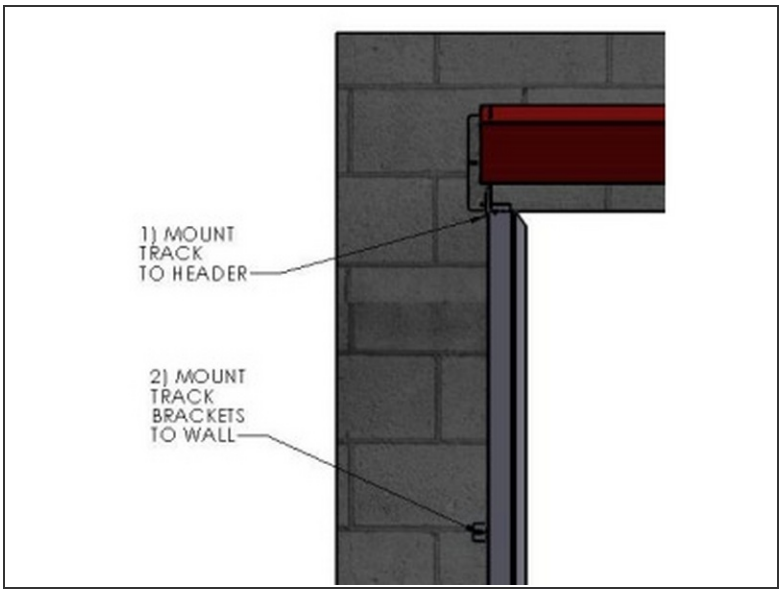




- The Track assembly mounts to the outside of the tab of the Header Assembly Mounting Bracket.
- Insert the Carriage Bolt through the Header Bracket Tab from the inside.
- Move the Track to the Outside of the Header Bracket, then push the Bolt fully through the Square hole in the Tab and the Track.
- Slide the Washer onto the Bolt from the outside of the Track.
- Then snug the Hex Nut on the Bolt.

Step 12 — Fasten Track to Wall

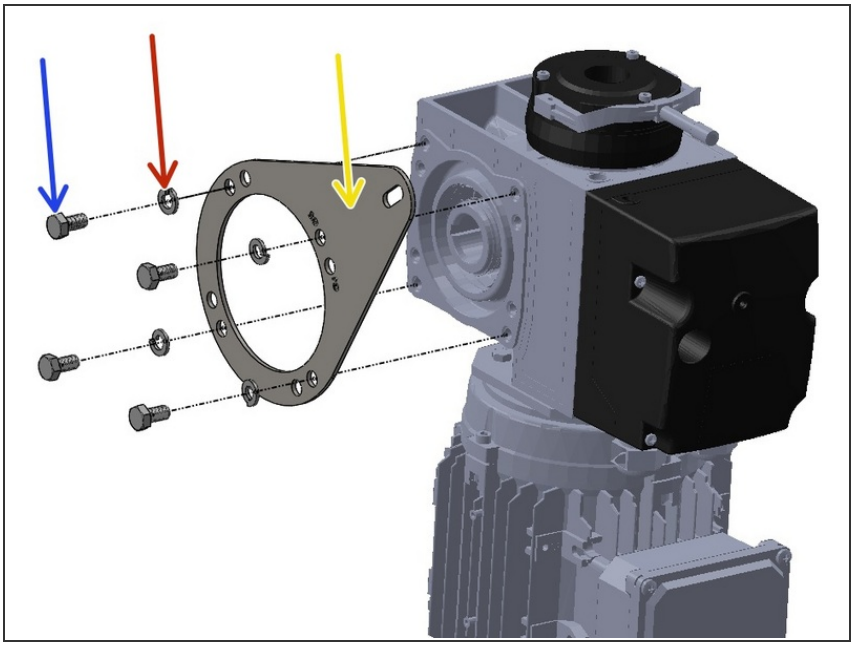




- Plumb each Track.
- Fasten the Tracks to the Mounting Surface through the Mounting Brackets.

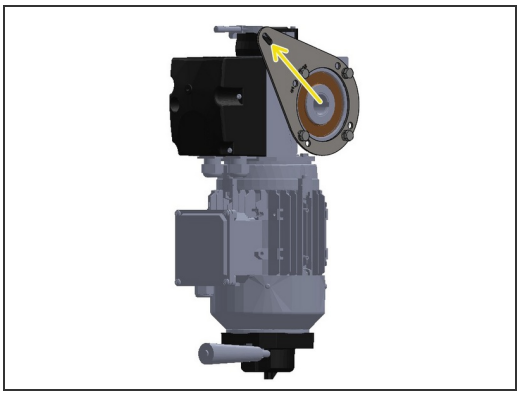
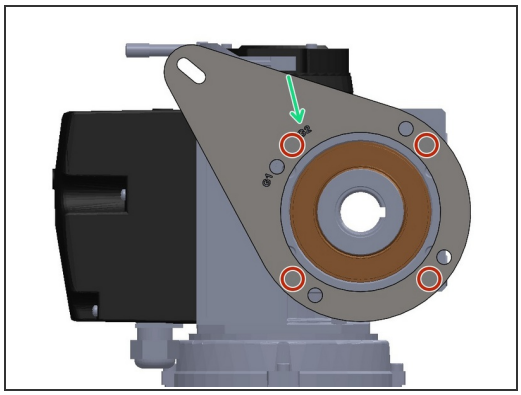
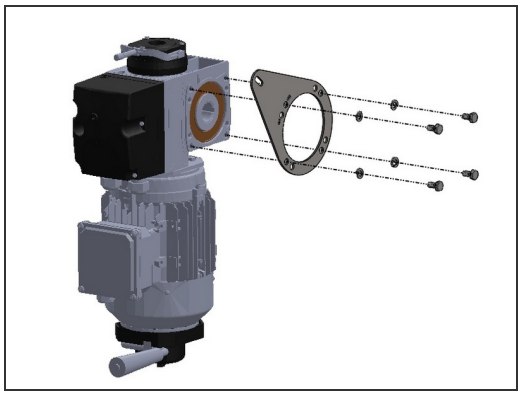
⚠ Keep the Material and Roll-Tube tie wrapped until the Motor is Powered and ready to have the Limits Set.

Step 13 — Components for Installing Mount Bracket to Motor



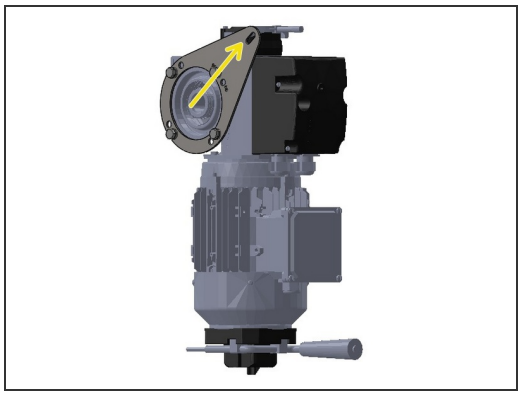
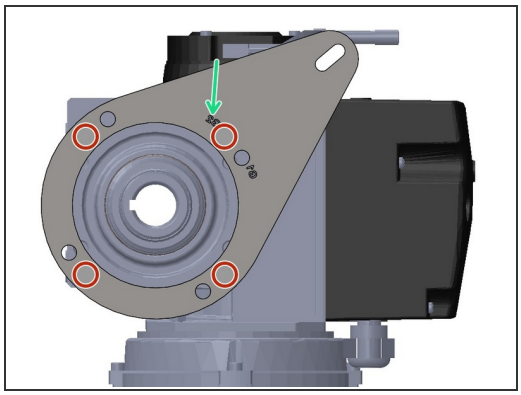
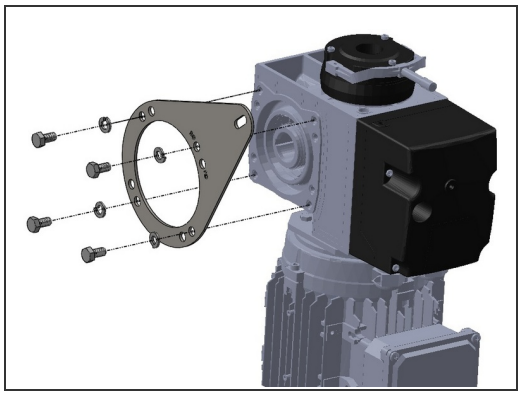
- (4) M8-1.25 x 16mm Hex Bolts
- (4) 5/16 Split-Lock Washers
- (1) Motor Mount Anti-Torque Bracket

Step 14 — Mounting Bracket onto Motor - LH Drive, G2 Door

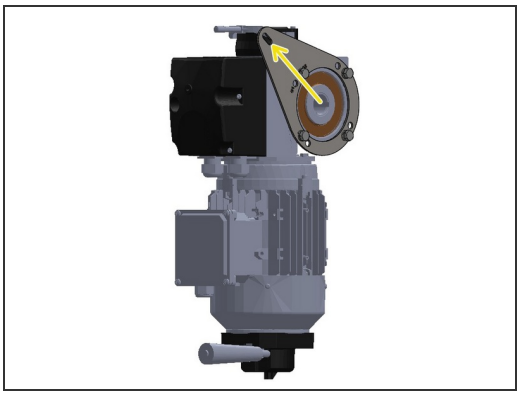
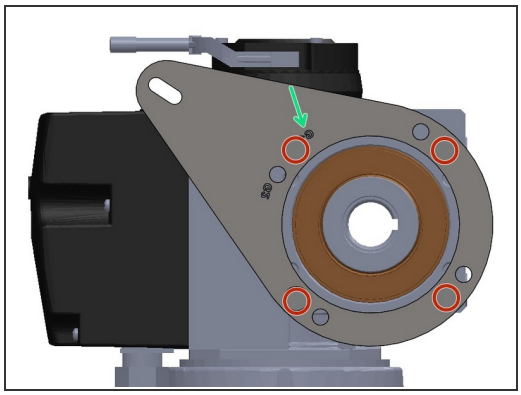
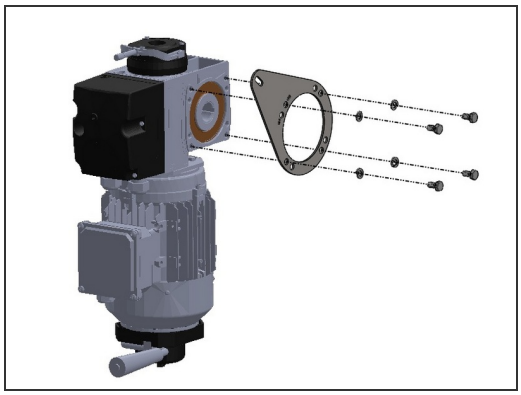
- Note the Orientation of the Bracket in Relation to the Motor.
- The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 or Wash Guard Plus Door, Use the G2 Hole Pattern, and for a G1 or Model 2000 Door, use the G1 Hole Pattern.
- On a LH Drive, G2 Door, the Letters will Read Normally/Forward when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

Step 15 — Mounting Bracket onto Motor - RH Drive, G2 Door

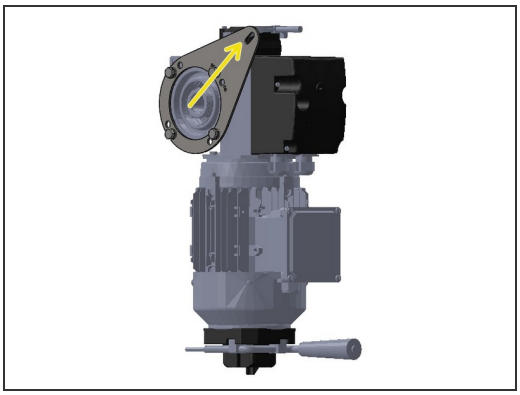
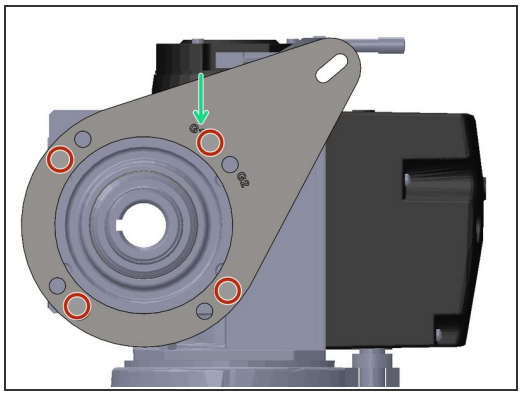
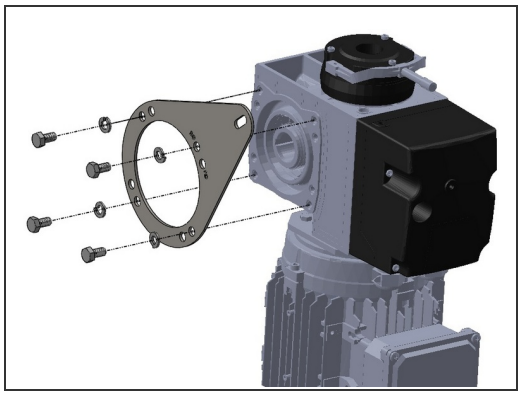
- Note the Orientation of the Bracket in Relation to the Motor.
- The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 or Wash Guard Plus Door, Use the G2 Hole Pattern, and for a G1 or Model 2000 Door, use the G1 Hole Pattern.
- On a RH Drive G2 Door, the Letters will Read Backwards when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

Step 16 — Mounting Bracket onto Motor - LH Drive, G1 Door

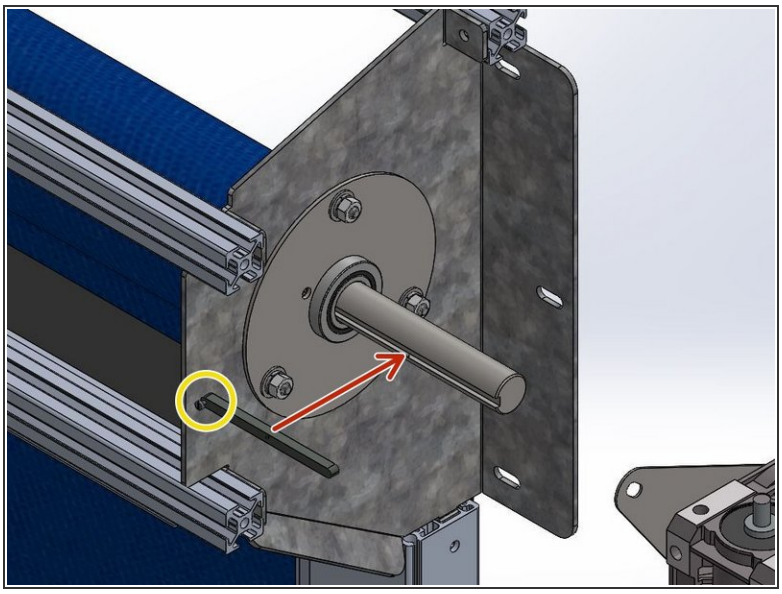
- Note the Orientation of the Bracket in Relation to the Motor.
- The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 or Wash Guard Plus Door, Use the G2 Hole Pattern, and for a G1 or Model 2000 Door, use the G1 Hole Pattern.
- On a LH Drive G1 Door, the Letters will Read Backwards when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

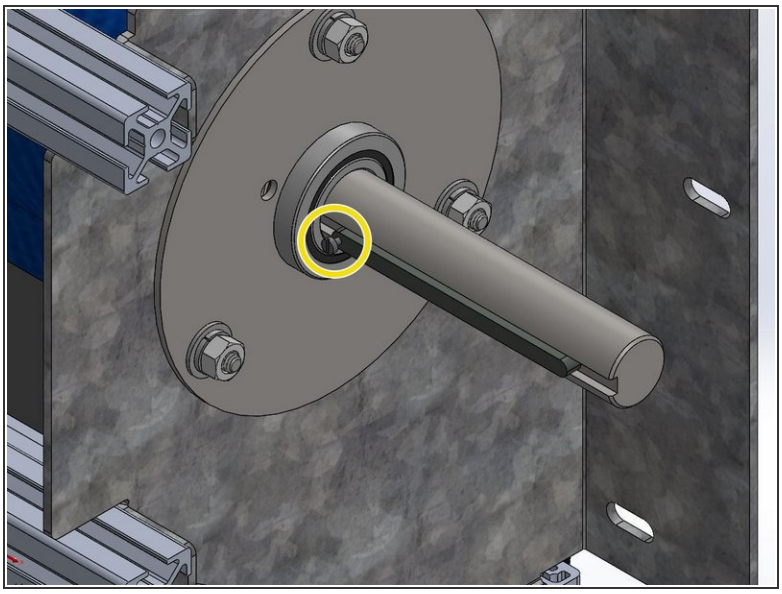
Step 17 — Mounting Bracket onto Motor - RH Drive, G1 Door

- Note the Orientation of the Bracket in Relation to the Motor.
- The Bracket has 2 Hole-Patterns Corresponding the G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 or Wash Guard Plus Door, Use the G2 Hole Pattern, and for a G1 or Model 2000 Door, use the G1 Hole Pattern.
- On a RH Drive G1 Door, the Letters will Read Normally/Forward when the Bracket is Mounted onto the Motor.
- Place the Bracket up on the Motor with the proper Hole Alignment.
- Place the Lock Washer onto the Screw and Fasten the Bracket onto the Motor.

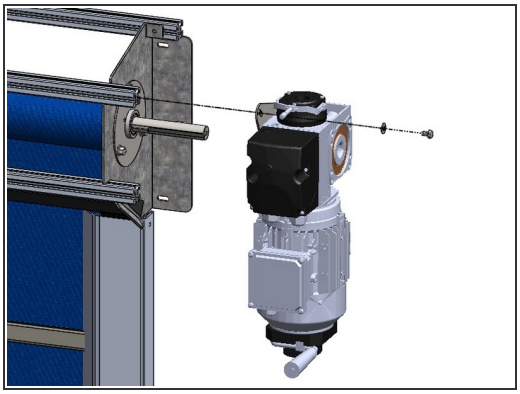
Step 18 — Installing the Machine Key

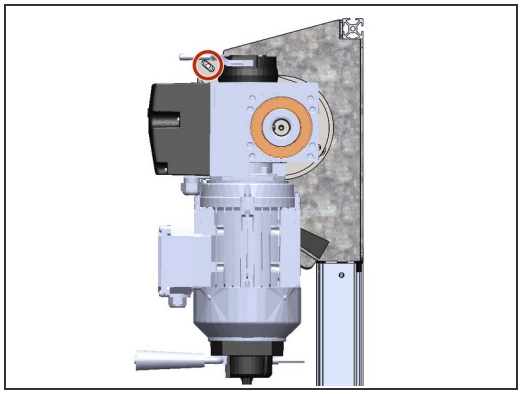


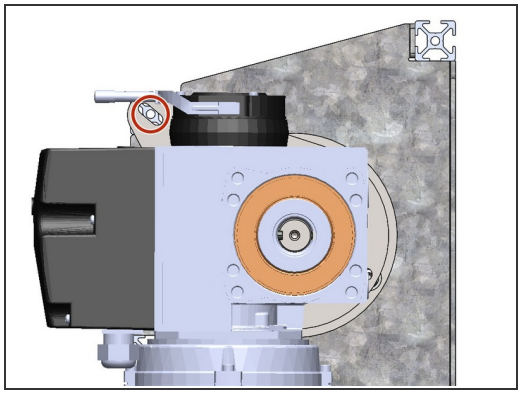


- Install the Machine Key onto the Drive Shaft with the Set Screw Oriented Towards the Header (Between Motor and Door).

Step 19 — Installing the Motor on the Shaft







- Slide the Motor onto the Shaft and Key.
- Tilt the Motor to Align the Hole in the Motor Mount Bracket with the Hole on the end of the Upper, Front Rail.
- This should result in the Motor being oriented Vertically and Plumb (See Image 2).

⚠ Place the 5/16 Flat Washer onto the 5/16-18 x 1/2in Hex Bolt and Fasten the Motor to the Door with a Ratchet or Impact Driver.

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Step 20 — Motor Wiring

⚠ The Manaras direct-drive Motor comes Pre-Wired from the Factory.

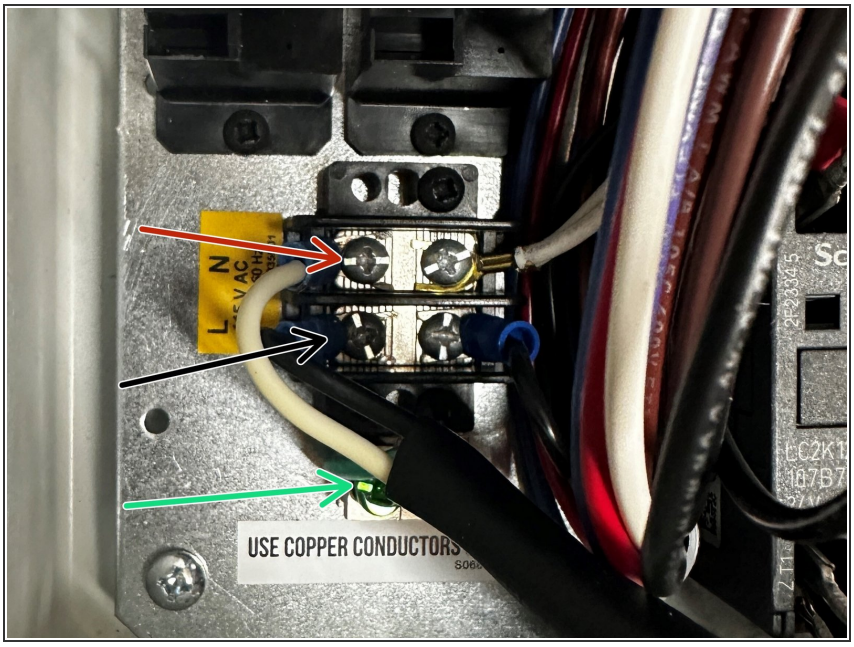
⚠ In the field, you will need to Wire only the (2) Cables from the Motor into the Control Panel.

⚠ There is a Motor Cable, and a Limit Cable

ⓘ This is a total of 12 Wires for Single-Phase.

ⓘ And 13 Wires for 3-Phase.

Step 21 — Powering the Control Panel



ⓘ Incoming Power is Terminated in the Lower-Left Corner of the Control Panel.

⚠ For Single-Phase Power, there will be 3 Wires:

- Hot (L)
- Neutral (N)
- Ground (GND)

⚠ For 3-Phase Power, there will be 4 Wires:

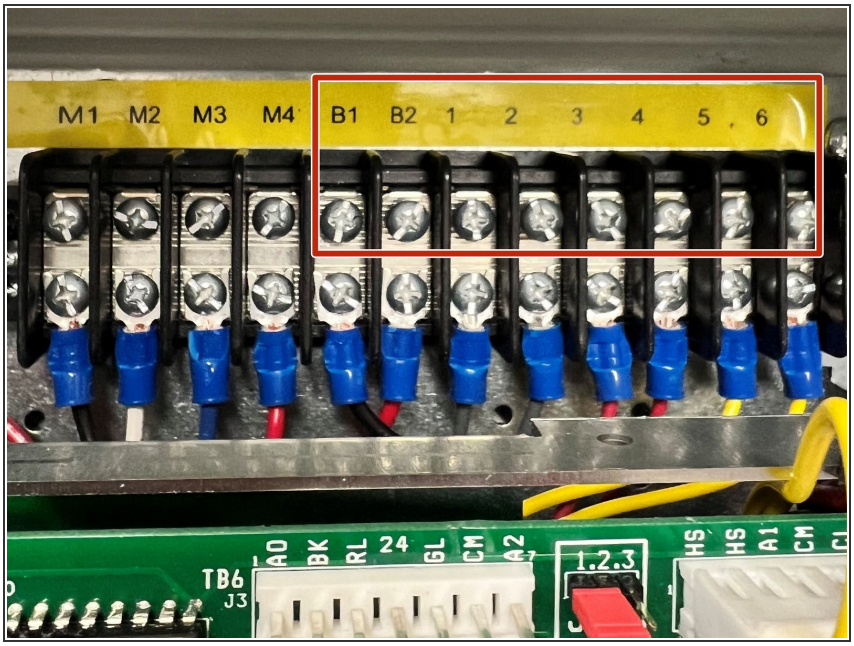
- Line 1 (L1), Line 2 (L2), Line 3 (L3), and Ground (GND)

Step 22 — Single-Phase Panel Wiring - Motor Cable



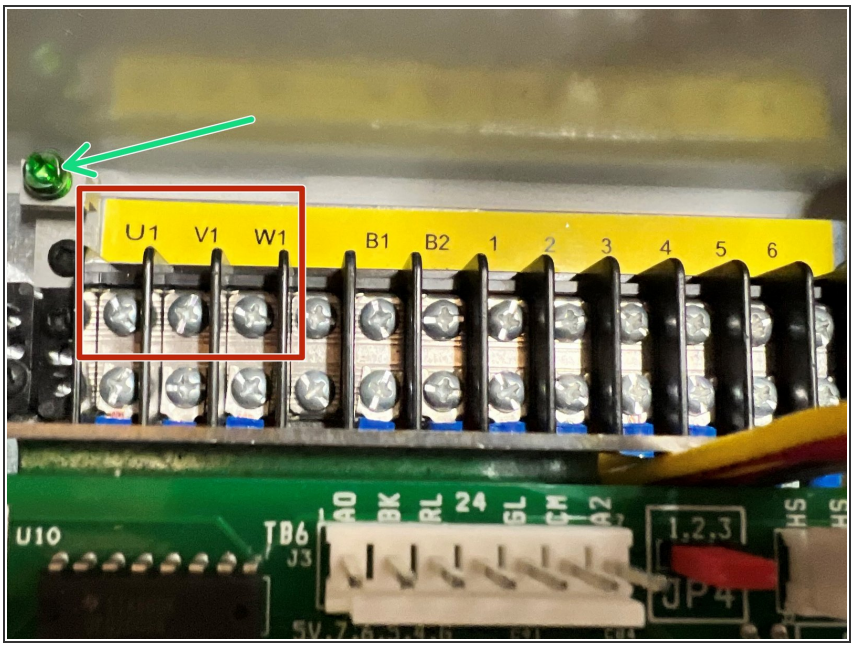
- Here is the Color-Coded Wiring Schema:
  - Black to M1
  - White to M2
  - Blue to M3
  - Red to M4
  - Green to Ground Screw

Step 23 — Single-Phase Panel Wiring - Limit Cable



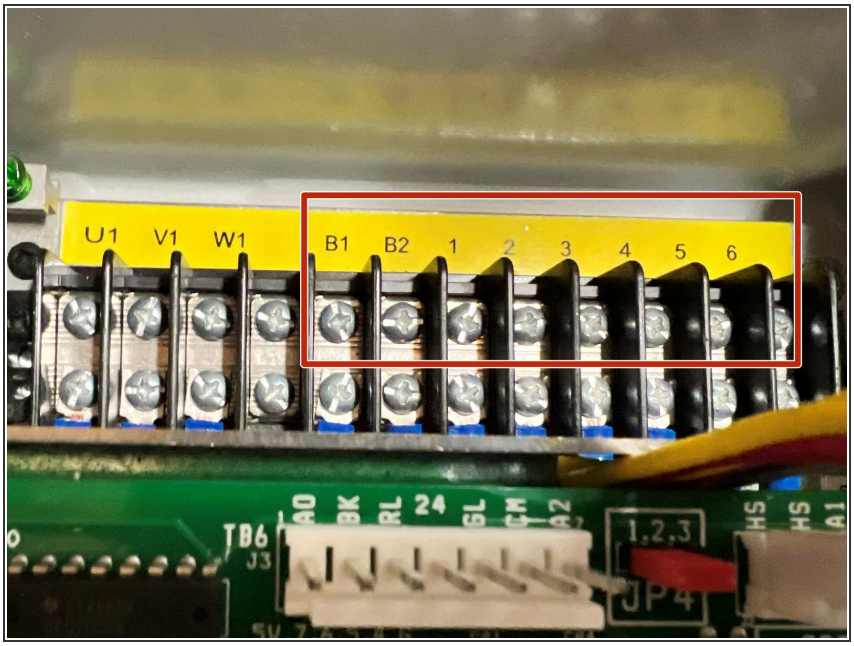
- Blue to B1
- Blue w/ Black Stripe to B2
- Orange w/ Black Stripe to 1
- Orange to 2
- Red to 3
- Red w/ Black Stripe to 4
- Black to 5
- Brown to 6

Step 24 — 3-Phase Panel Wiring - Motor Cable



- Here is the Color-Coded Wiring Schema:
  - White to U1
  - Red to V1
  - Black to W1
  - Green to Ground Screw

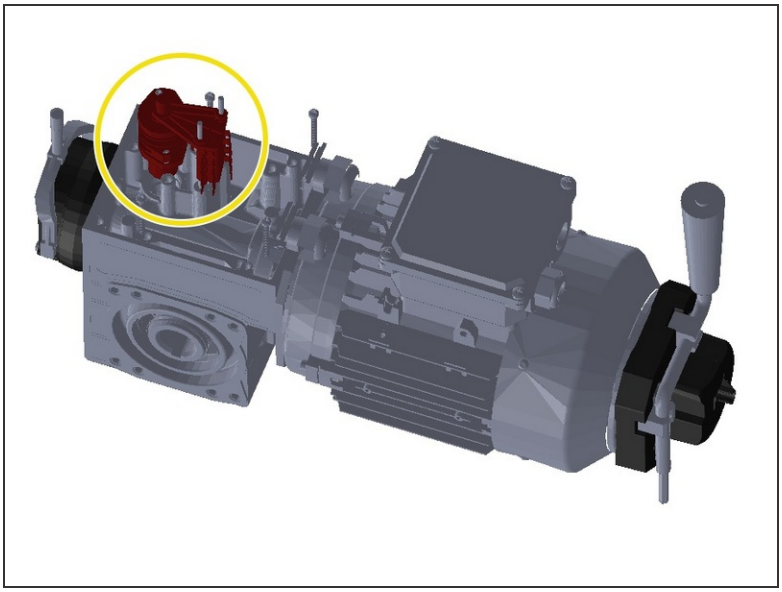
Step 25 — 3-Phase Panel Wiring - Limit Cable

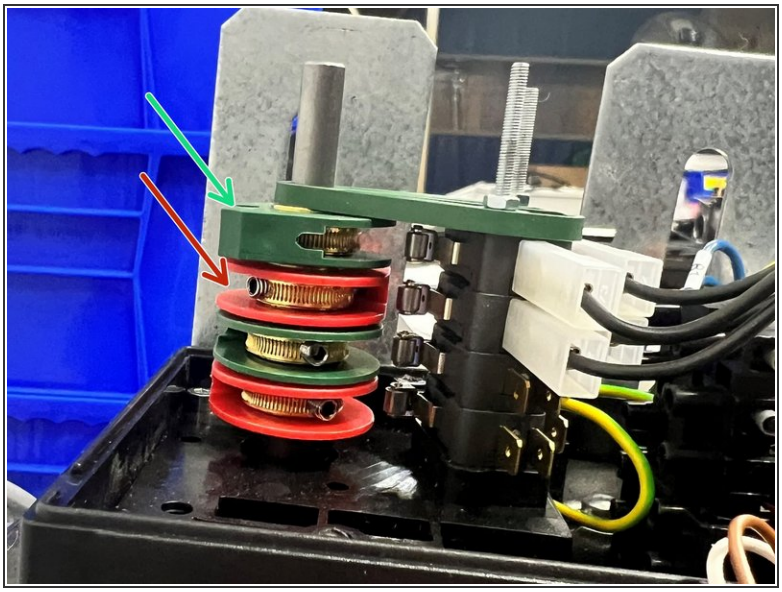


- Blue to B1
- Blue w/ Black Stripe to B2
- Orange w/ Black Stripe to 1
- Orange to 2
- Red to 3
- Red w/ Black Stripe to 4
- Black to 5
- Brown to 6

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Step 26 — Setting the Limits: Part One

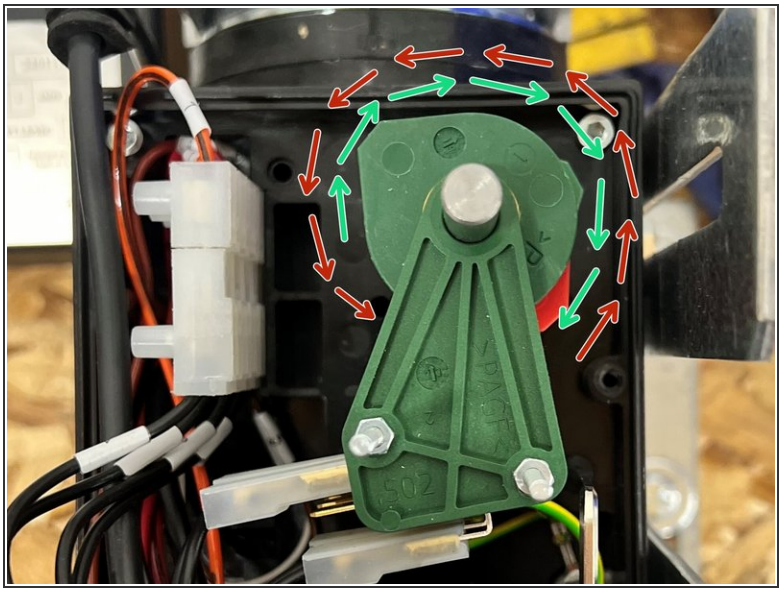


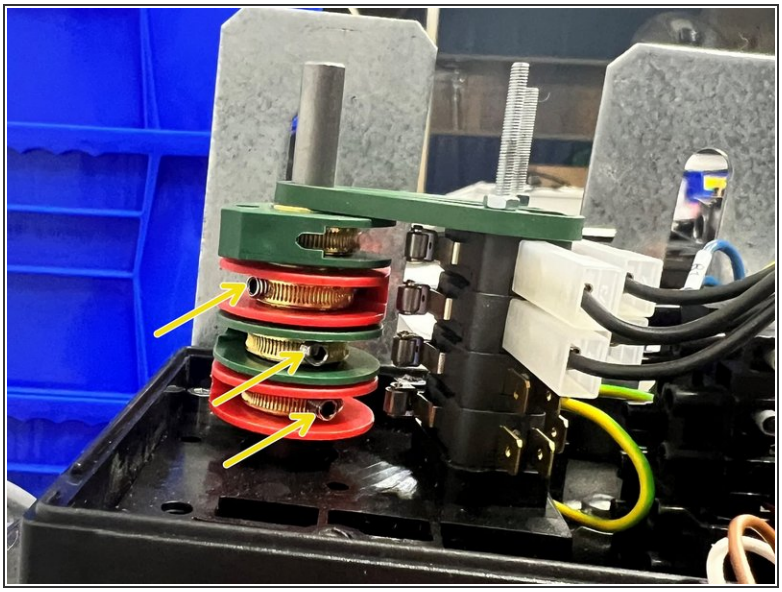


- Remove the Black Cover from the Motor to expose the Mechanical-Limit Assembly.
- Underneath, there is (2) Green Limit Cams, and (2) Red Limit Cams in Alternating Order.
  - The Top, Green Limit Cam (closest to you) is for the Open-Limit.
  - The Red Limit Cam (just below the Green one) is for the Close-Limit.

ⓘ The (2) remaining Cams are Auxiliary, and could be used for Interlocking, or if you experience a failure in one or both of the Top (2) Limit Cams/Switches.

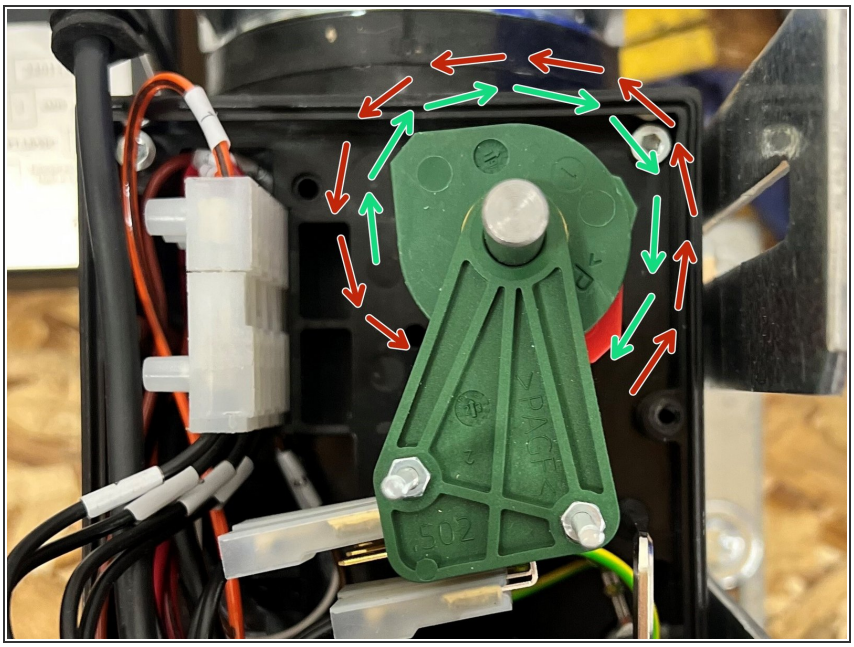
Step 27 — Setting the Limits: Part Two





- The top, Green (Open) Limit Cam will Rotate Clockwise until it hits the Limit Switch.
- The Red (Close) Limit Cam will Rotate Counter-Clockwise until it hits the Limit Switch.
- The Limit Cams can be loosened and Adjusted with the Built-in Set Screws.

Step 28 — Setting the Limits: Part Three



- Run the Door to the desired Closed Position.
- Loosen the Red Cam's Set Screw, and Rotate the Cam Counter-Clockwise until the Lobe hits the Limit Switch. You will hear an Audible Click.
- Hold the Cam in this Position, and Tighten the Set Screw to hold it there.
- Run the Door to the desired Open Position.
- Loosen the Green Cam's Set Screw, and Rotate the Cam Clockwise until the Lobe hits the Limit Switch. You will hear an Audible Click.
- Hold the Cam in this Position, and Tighten the Set Screw to hold it there.
- Test the Limits to confirm accuracy and repeatability. Make any adjustments as necessary.