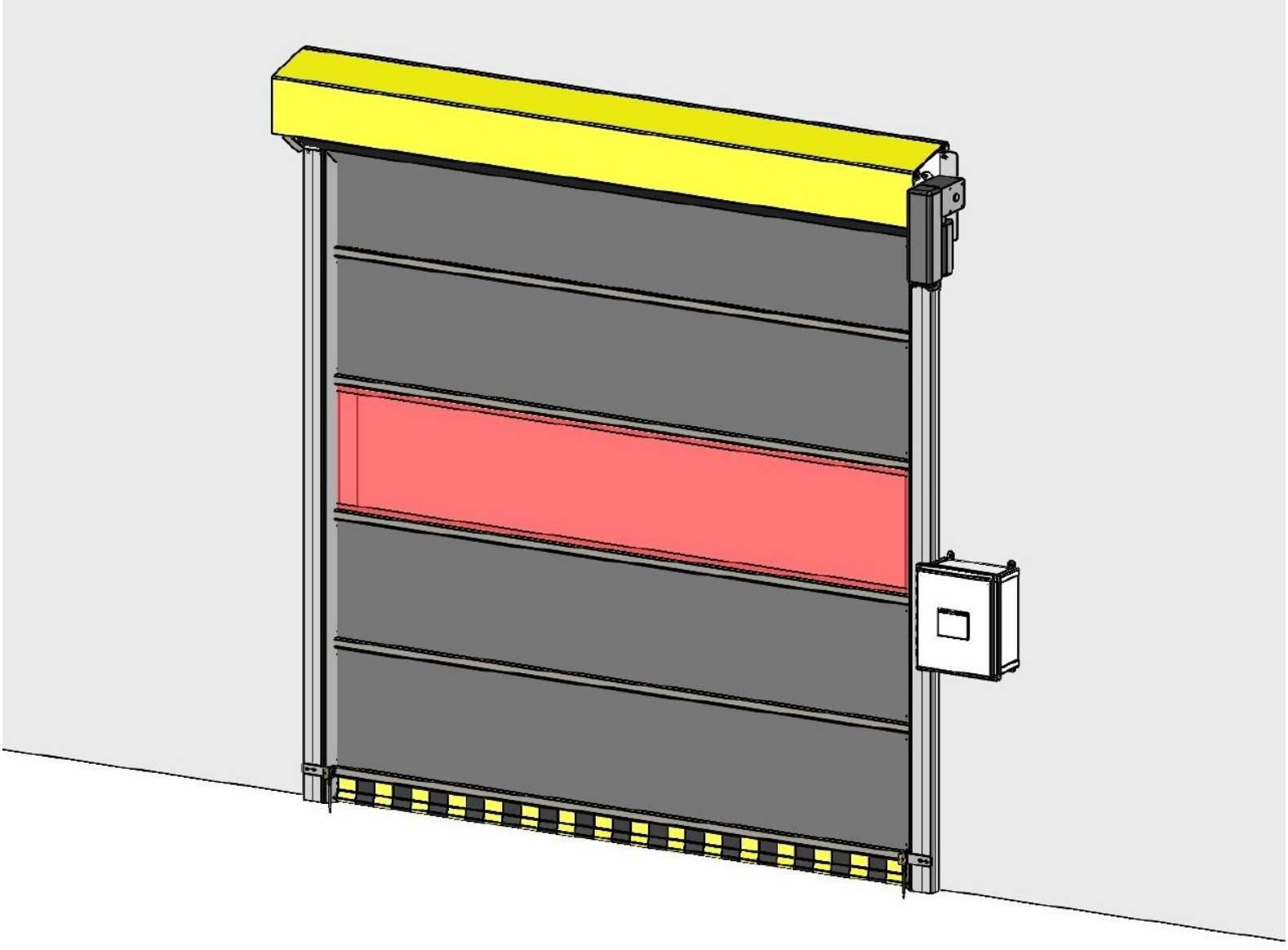
# G2 Machine Guard Door

G2 Machine Guard Door 123494

Written By: Todd Lucas



## TOOLS:

- 2.5mm Allen Wrench (1)
- 1/2in Socket (1)

*Or Wrench*

- Ratchet or Impact Driver (1)

*Optional*

- #2 Phillips Screw Driver (1)
- Power Drill (1)
- #2 Phillips Bit (1)

*For Power Drill*

- 7/32in Drill Bit (1)
- 1/8in Flat-Header Screw Driver (1)
- #1 (0.228" Dia.) Drill Bit (1)
- 1/16in Flat-Head Screw Driver (1)
- Wire Stripper/Cutter (1)
- Power Drill (not included) (1)
- #3 Phillips Screw Driver (1)

## PARTS:

- Motor Mount Anti-Torque Bracket (1)
- M8 x 1.25mm x 12mm Long Hex Bolts (4)
- M8 Split-Lock Washers (4)
- 5/16-18 Hex Nut (1)
- 5/16 Split Lock Washer (1)
- Machine Key (1)
- 10-32 x 1/2in Machine Screw (4)

**Included**

- Side-Mount Bracket (1)

*For Door Frame Installations*

- Control Panel Feet (4)

**Included**

*For Wall Mount Installations*

- Sick Sensor Mounting Bracket (Provided) (2)
- Sick STR1 RFID Sensors + Cables (2)
- Telco Photo Eye Mounting Bracket (2)
- Telco Through-Beam Photo Eyes (2)

## 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**

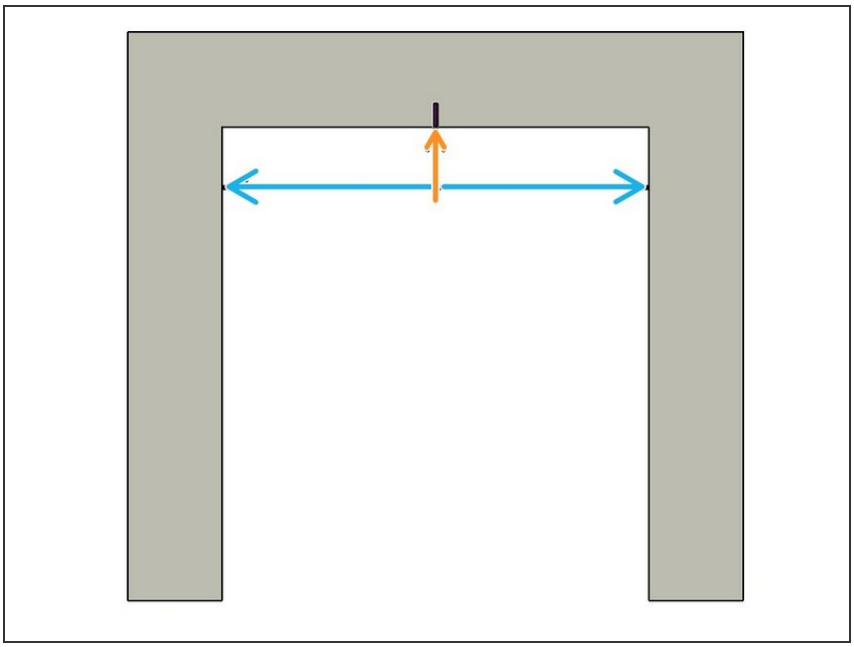
READ THIS MANUAL CAREFULLY. MOST INSTALLATION REQUIRES A LADDER AND TWO PEOPLE AT A MINIMUM. WEAR PROPER SAFETY GEAR AND CLOTHING. OBSERVE WARNINGS AND PRACTICE CAUTION WHEN INSTALLING, OPERATING, OR MAINTAING YOUR PRODUCT. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY.

**ADDITIONAL SUPPORT**

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

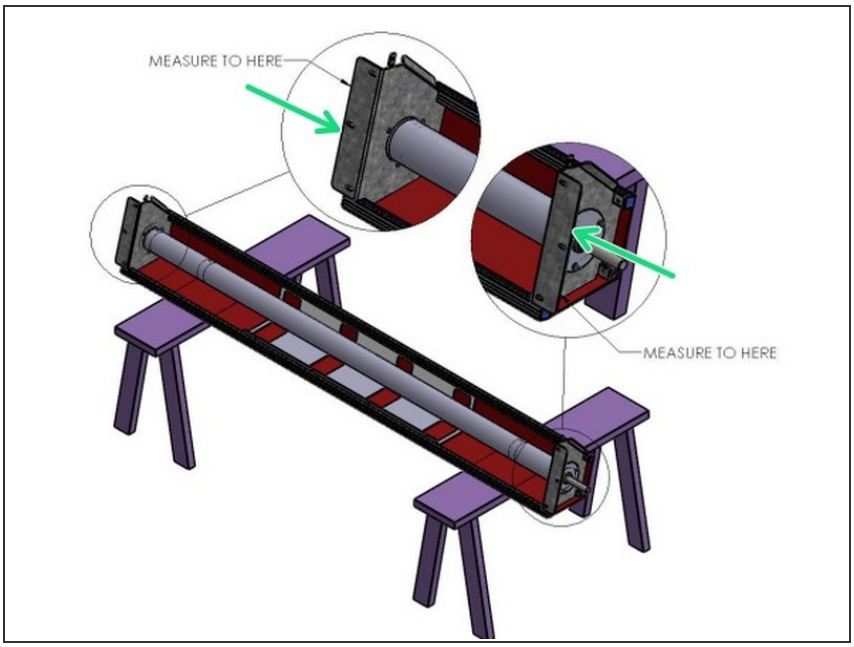
- **Technical Support Contacts:**
- Phone: 262-746-3374
- Email: techsupport@goffscw.com
- Website: http://www.goffsenterprises.com

## 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.

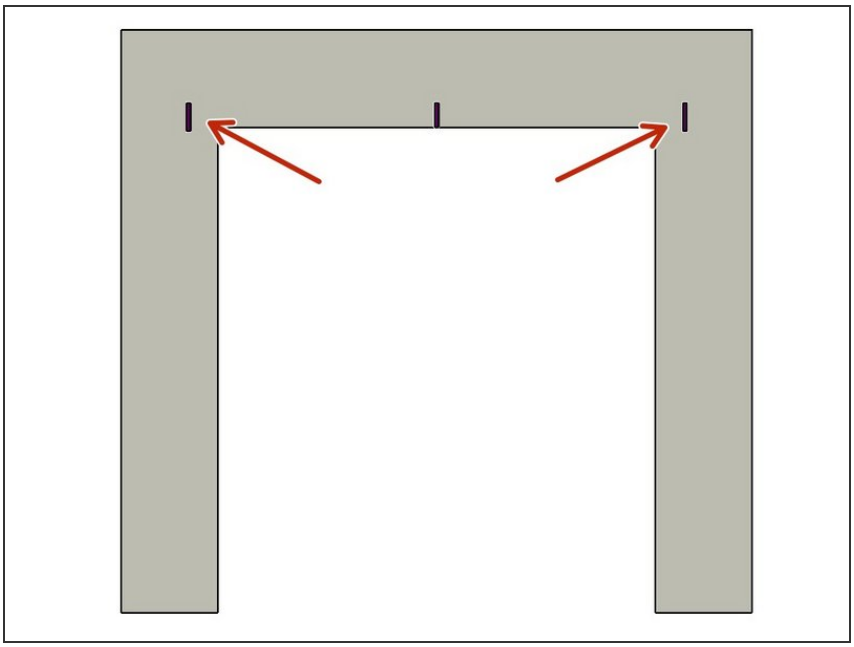
## Step 3 — Measure Door Header Width




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

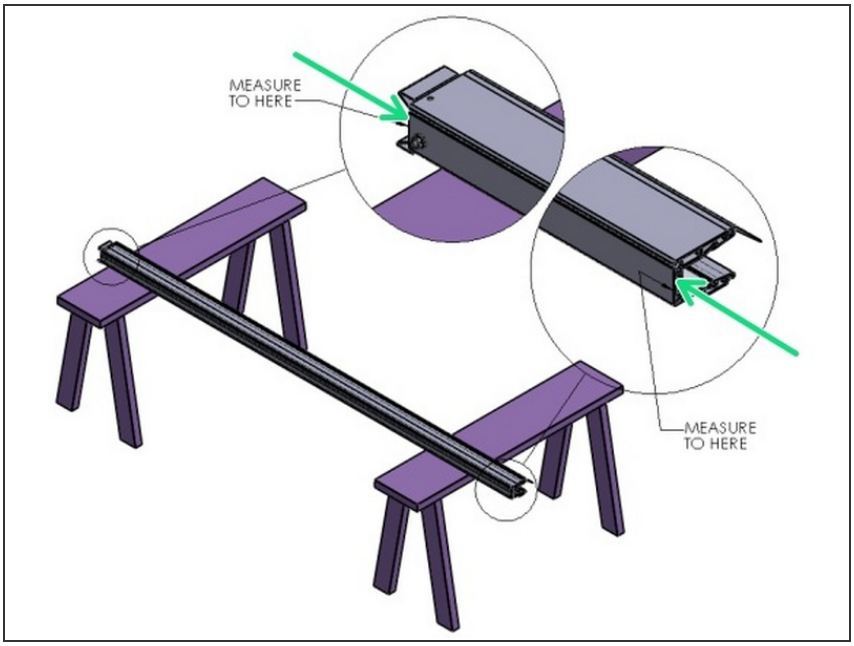
- Place the Door roll Header Assembly across a safe and level work surface, and rotate the roll assembly frame so that the Header Bracket Mounting flanges are facing upward.
- Measure the total width of the whole roll assembly from outermost edge of one Header Bracket's Mounting flange to the outermost 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



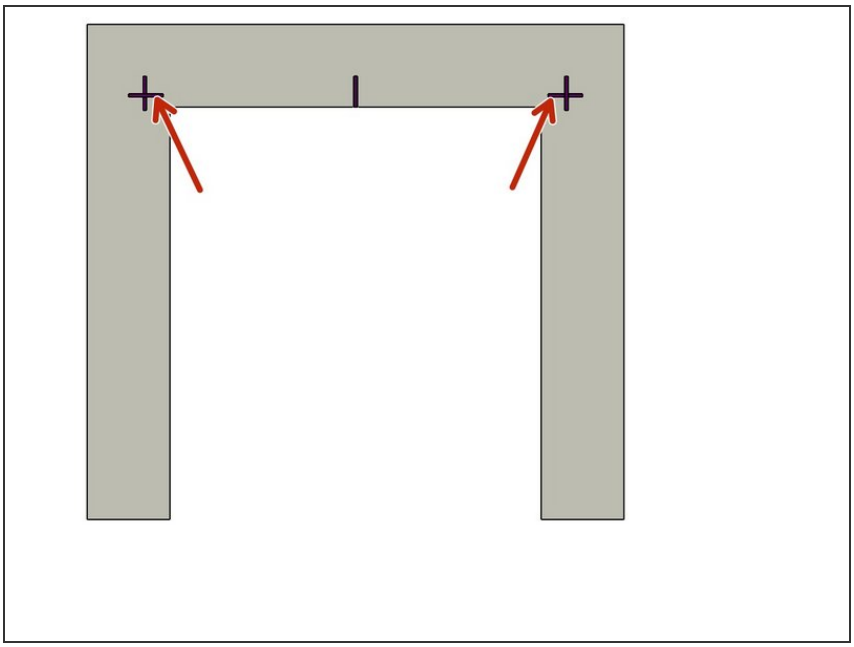
- Mark this dimension on each side of the Opening Center mark.

## 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

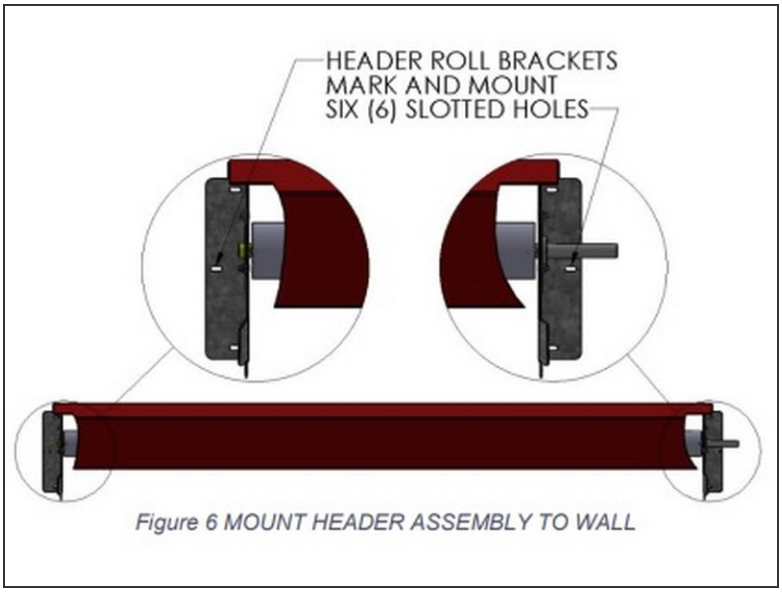
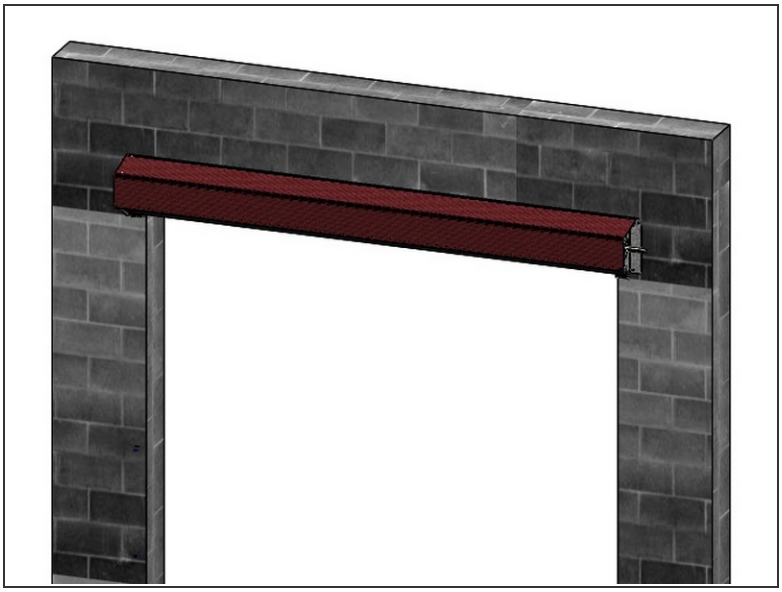
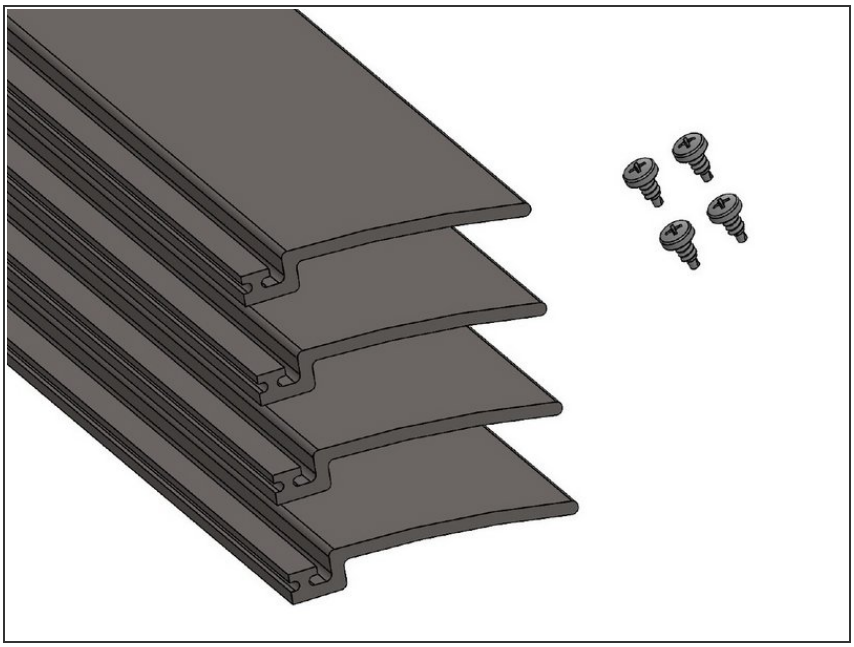


Figure 6 MOUNT HEADER ASSEMBLY TO WALL



- 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.

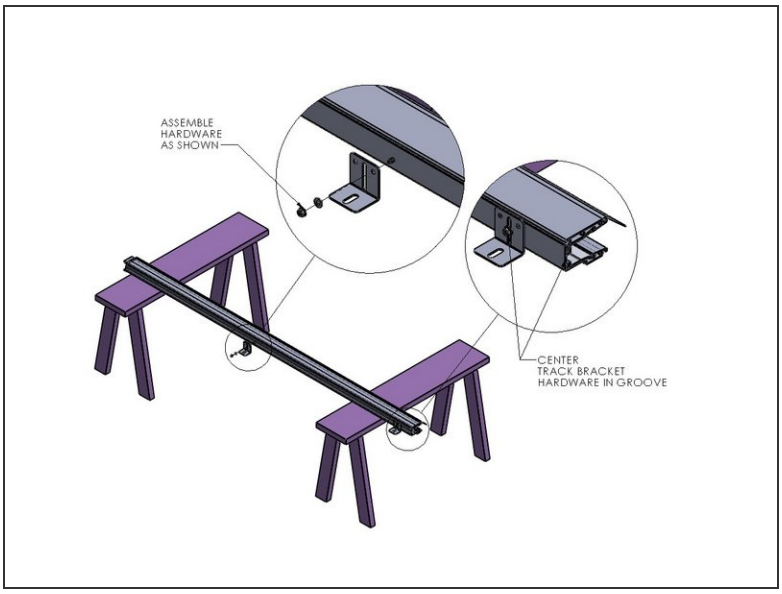
## Step 9 — Overview Notes - G2 Track Installation

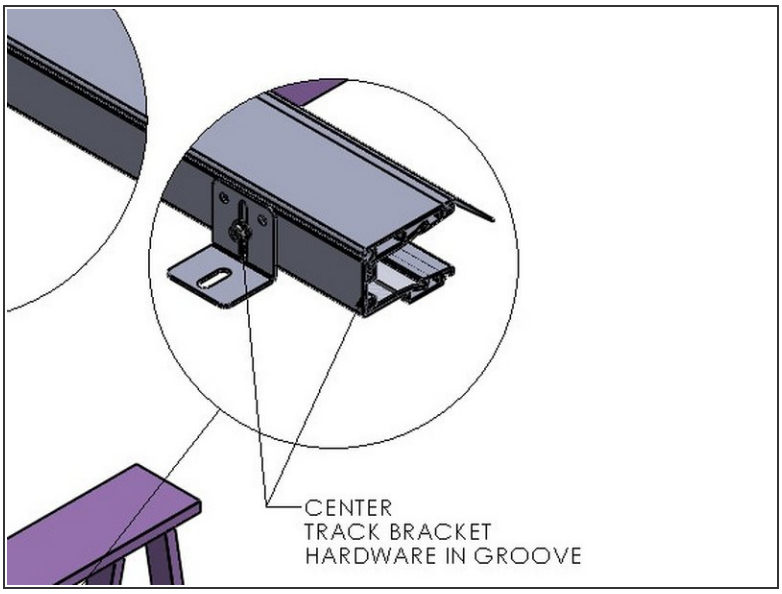
⚠ The Track mounts to the Outside of the Tab of the Header Mounting Bracket.

⚠ 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.

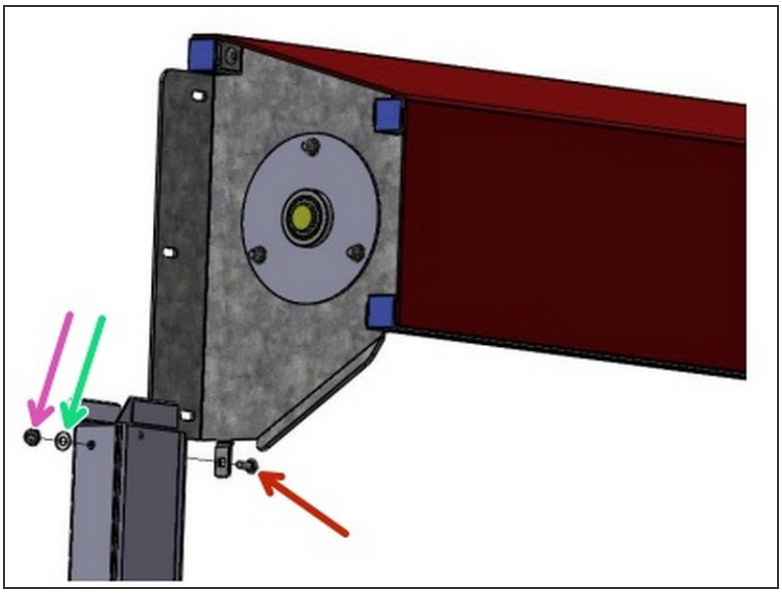
## Step 10 — Prepare the Track Assemblies

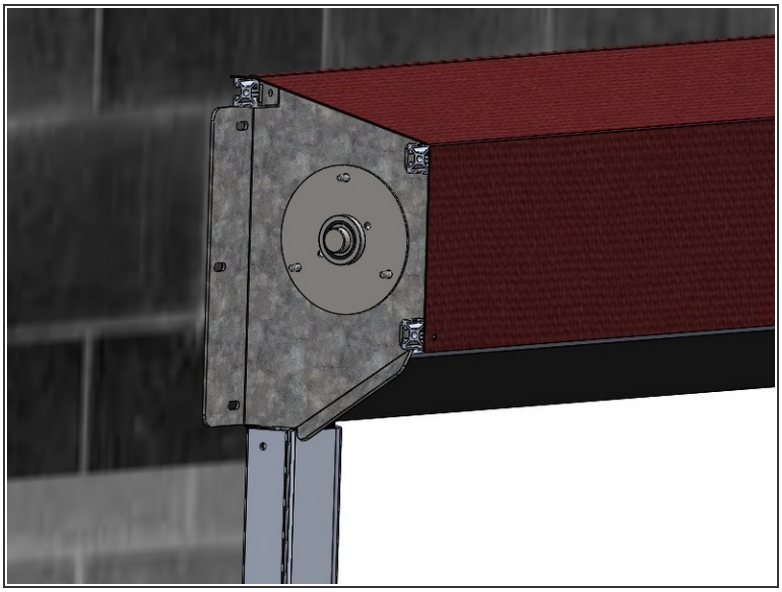



- Attach a Track Mounting Bracket to the Track in the hole located at the bottom.
- NOTE: For extreme cases, such as “High Wind Loads”, an additional Track Mounting Bracket (supplied) will be necessary.
- Mark and Drill the Track (.28-.31 dia) at 1.44” in from the front edge (i.e. centered in the groove),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

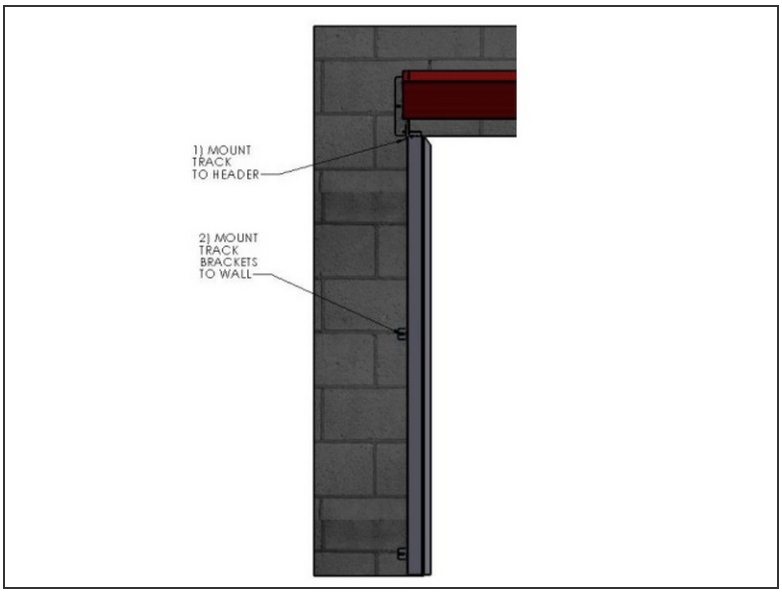
## Step 11 — Mount the Track Assemblies

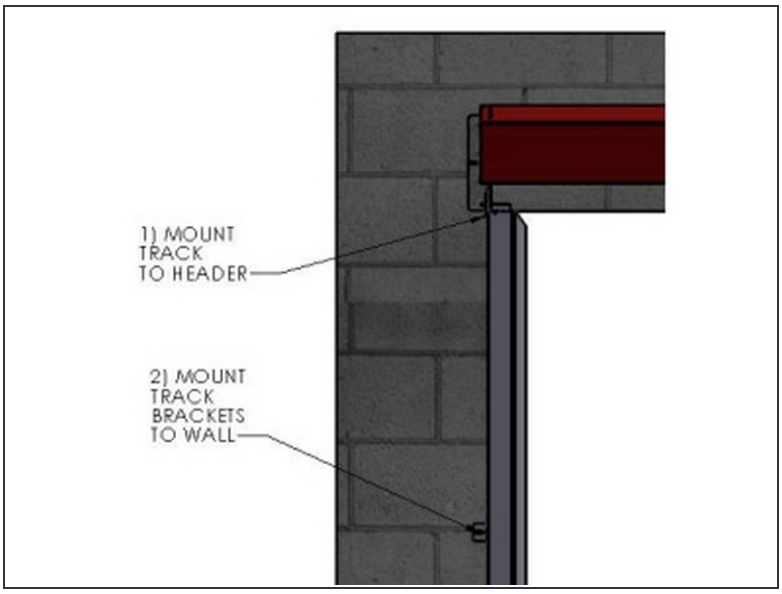




- ⓘ The Track assembly mounts to the outside of the tab of the Header Assembly Mounting Bracket.
- Insert the Carriage Bolt through the Header Bracket Tab from the inside.
- Move the Track to the Outside of the Header Bracket, then push the Bolt fully through the Square hole in the Tab and the Track.
- 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

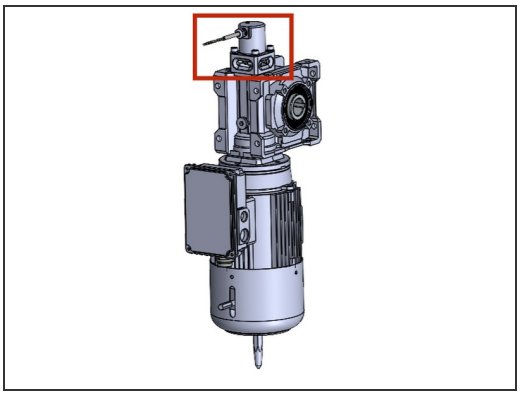
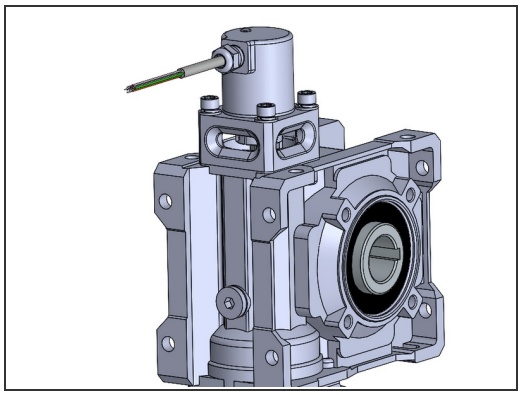
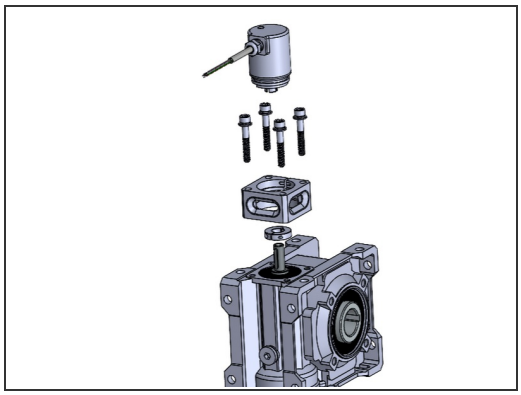



- Plumb each Track.
- Fasten the Tracks to the Mounting Surface through the Mounting Brackets.

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

## Step 13 — Absolute Encoder

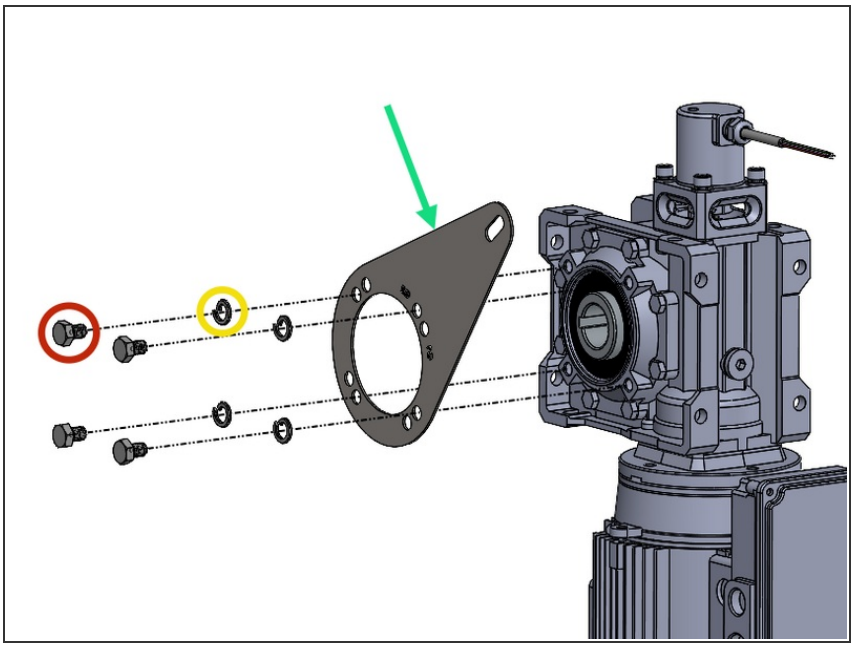
ⓘ New Door Orders will come with the Encoder Mounted on the Motor from the Factory.

- If you are replacing an encoder:
  - Install the Encoder Unit (with the clamp collar) into the Mount until it Falls/Locks into place and cannot Rotate within the Mount.
  - Install the Encoder and Mount Assembly onto the Motor Housing using the Provided Socket Cap Bolts and Lock Washers.

⚠ Make sure the Coupler on the Bottom of the Encoder, Fits over the Shaft on the Top of the Motor.

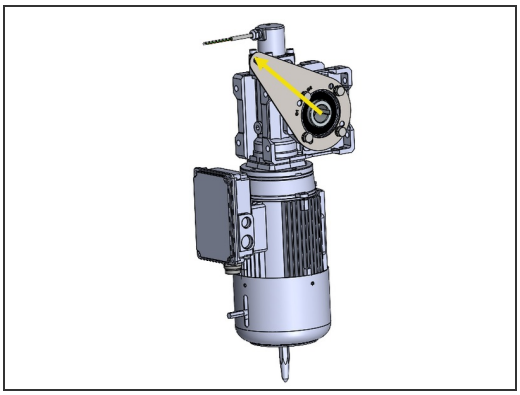
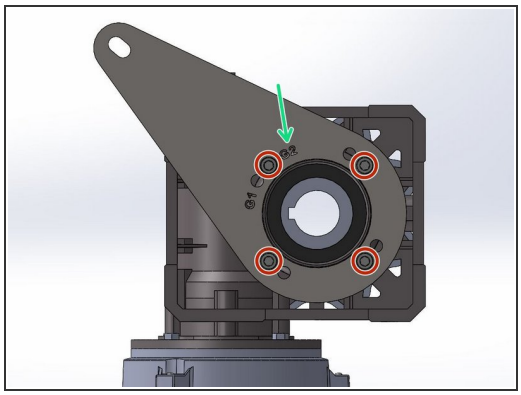
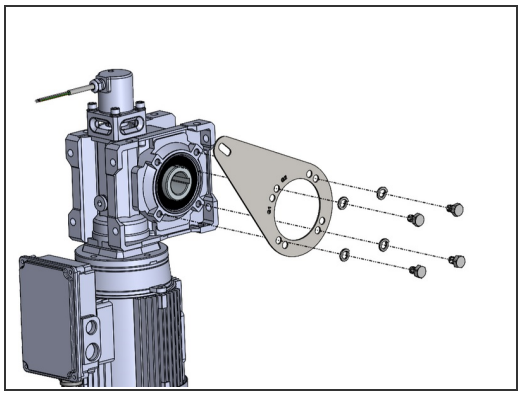
  - Tighten The set Screw on the Clamp Collar/Coupler to Positively Secure the Encoder to the Shaft so that they rotate together.

## Step 14 — Components for Installing Mount Bracket to Motor



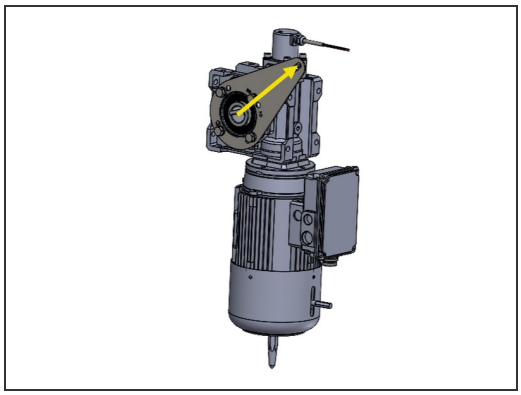
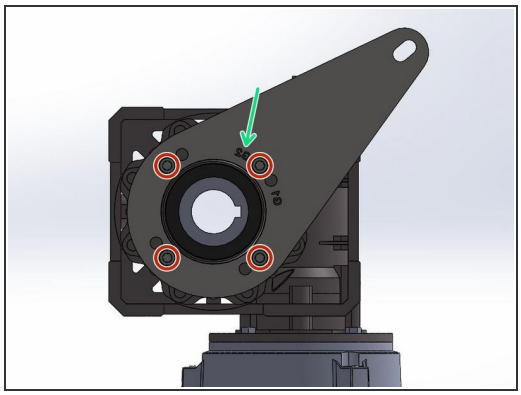
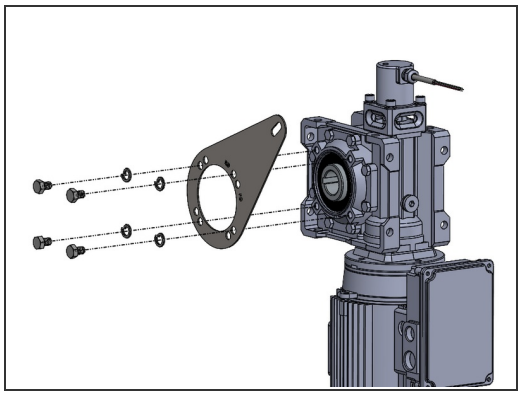
- (4) M8 x 1.25mm x 12mm Long Socket Cap Screws
  - ⓘ Requires 1/2in Socket or Wrench
- (4) M8 Split-Lock Washers
- (1) Motor Mount Anti-Torque Bracket

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

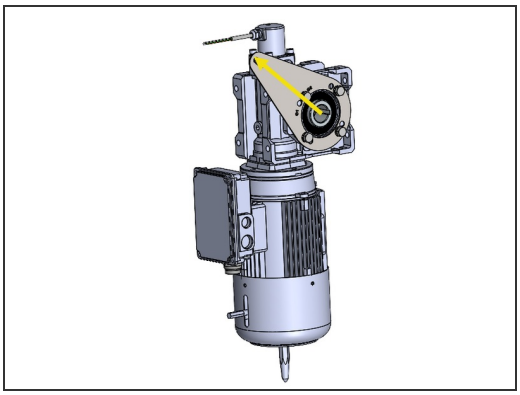
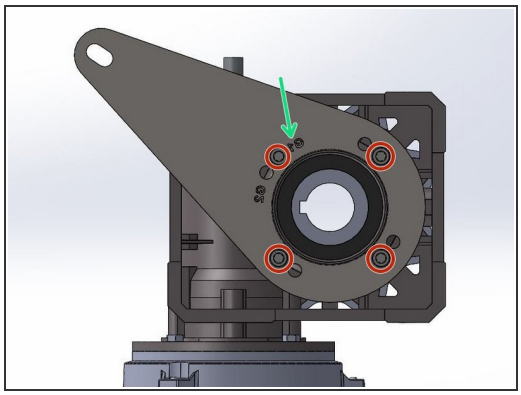
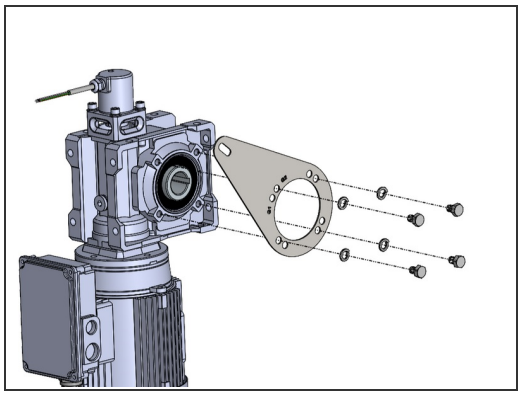
- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 Door, Use the G2 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- 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 16 — Mounting Bracket onto Motor - RH Drive, G2 Door

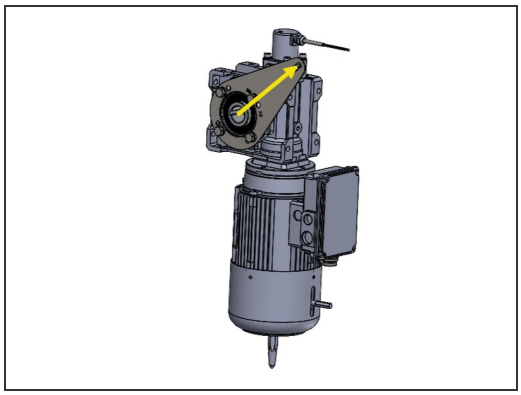
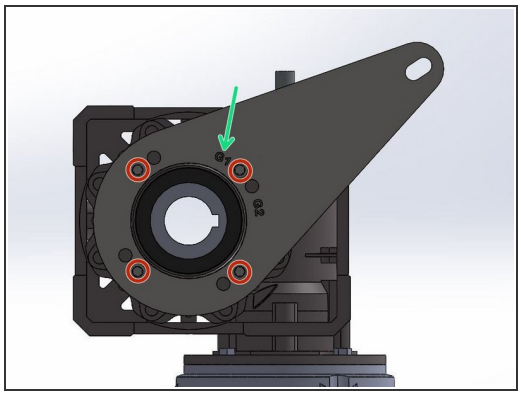
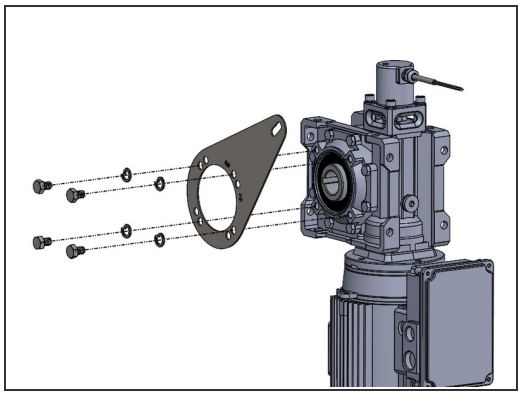
- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding to G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G2 Door, Use the G2 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- 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 17 — Mounting Bracket onto Motor - LH Drive, G1 Door

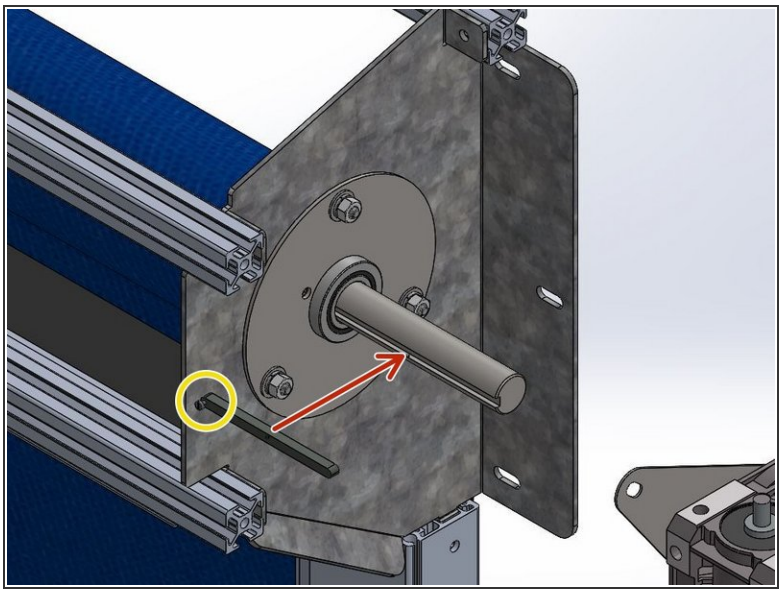
- Note the Orientation of the Bracket in Relation to the Motor.
- ⓘ The Bracket has 2 Hole-Patterns Corresponding the G1 and G2 Doors. This ensures the proper Alignment when Installing the Motor Assembly onto a G1 or G2 Door.
- For a G1 Door, Use the G1 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- 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.

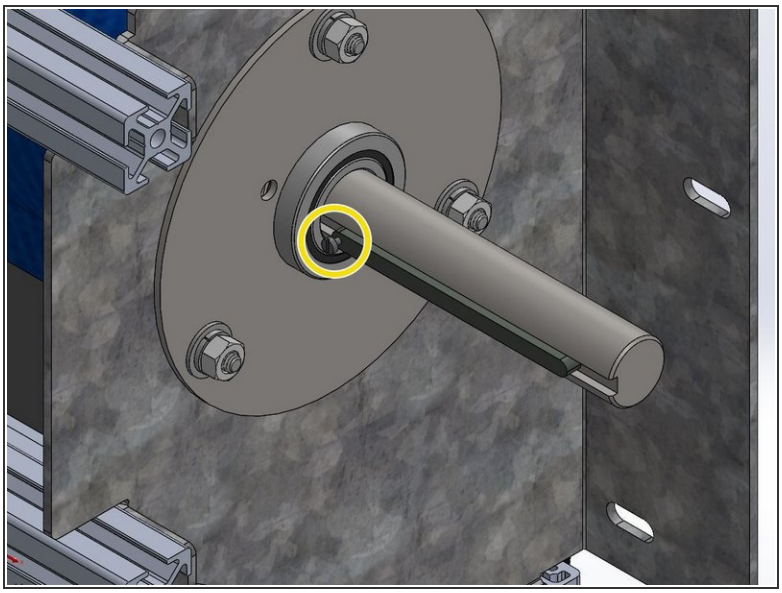
## Step 18 — Mounting Bracket onto Motor - RH Drive, G1 Door

- 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 G1 Door, Use the G1 Hole Pattern, and Vice Versa.
  - ⓘ G1 Doors include Model 2000 and Clean Guard.
  - ⓘ G2 Doors include Wash Guard, Harsh Guard and Machine Guard.
- 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.

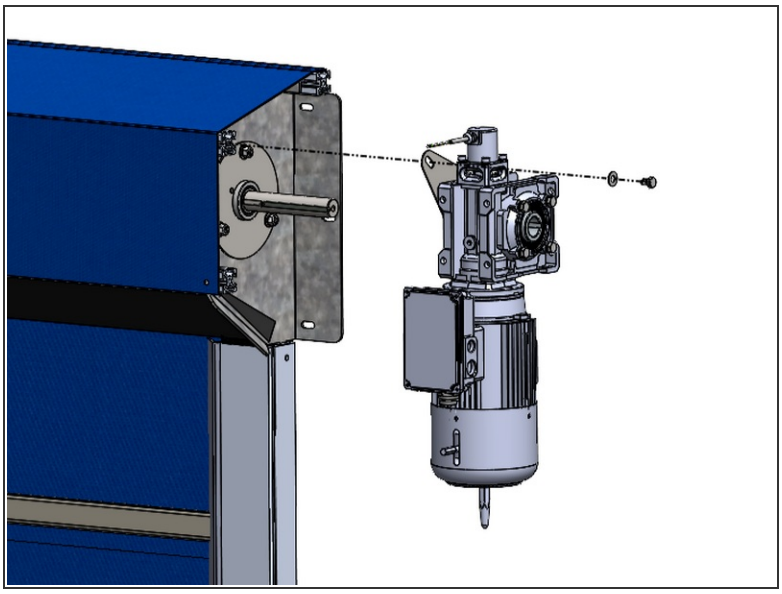
## Step 19 — Installing the Machine Key

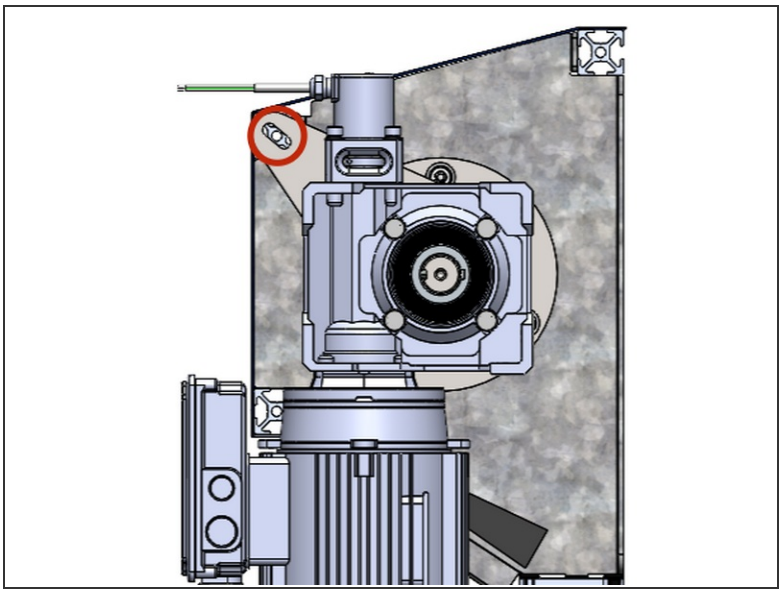




- **Install the Machine Key onto the Drive Shaft with the Set Screw Oriented Towards the Header (Between Motor and Door).**

## Step 20 — Installing the Motor on the Shaft

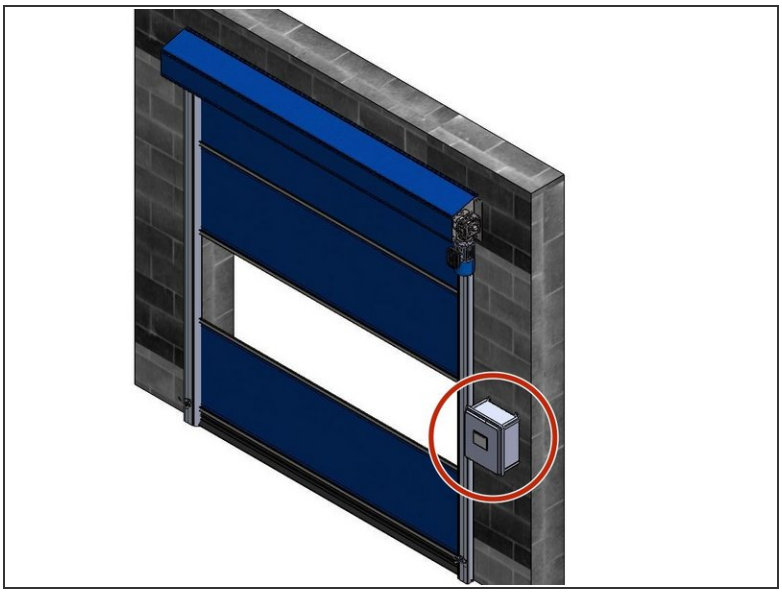


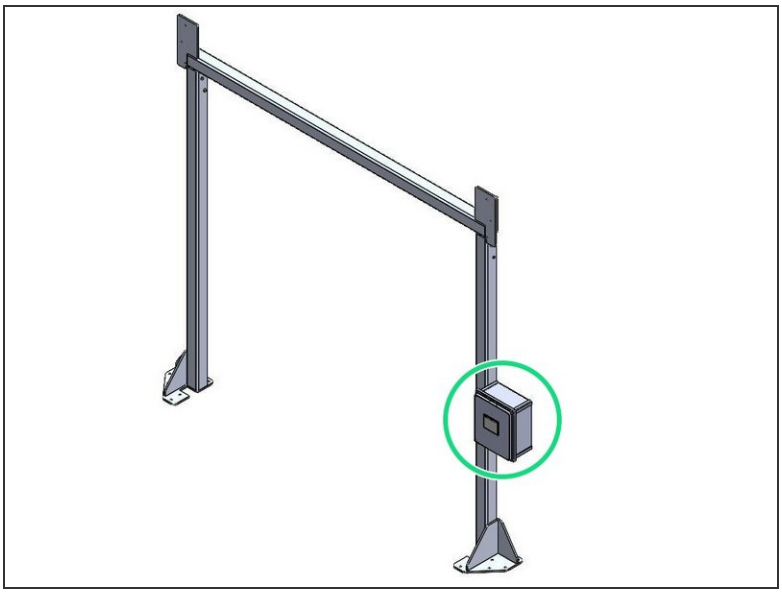


- Slide the Motor onto the Shaft and Key.
- Tilt the Motor to Align the Hole in the Motor Mount Bracket with the Hole on the end of the Upper, Front Rail.
- This should result in the Motor being oriented Vertically and Plumb (See Image 2).

⚠ 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.

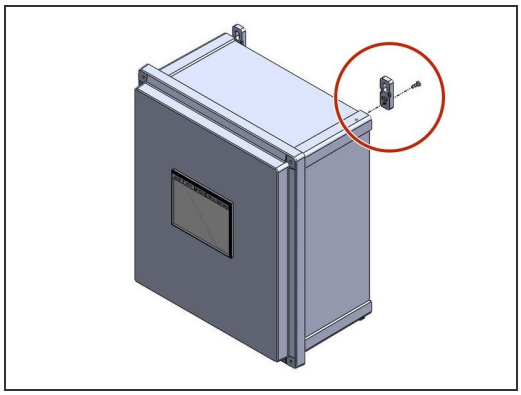
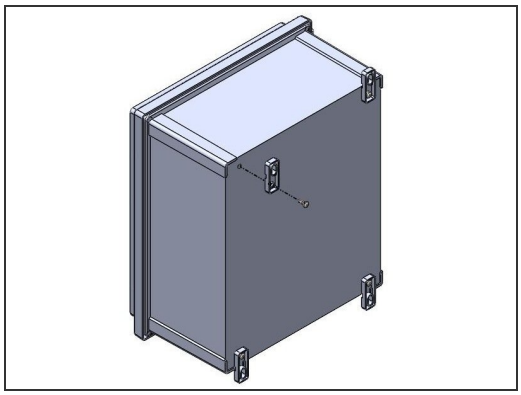
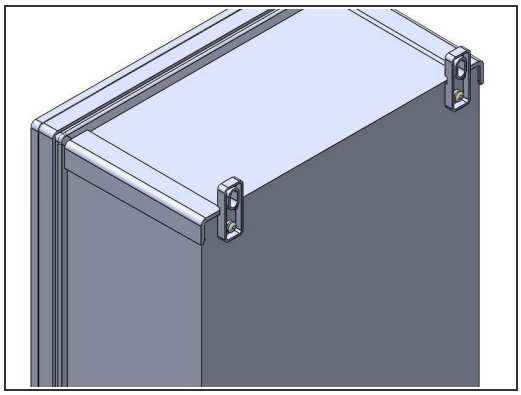
## Step 21 — Control Panel Mounting Options





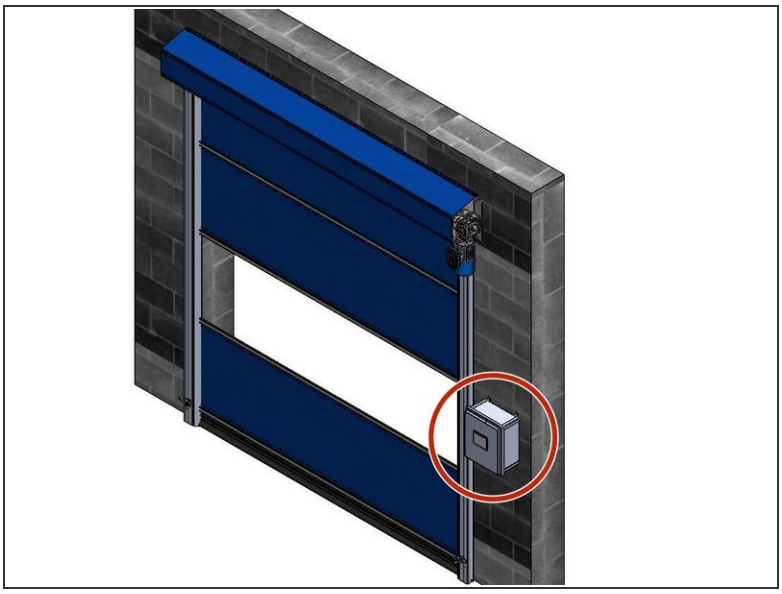
- The Goff's ICS3 Control Panel can be Mounted in two different ways:
  - Flush Mounted on a Wall/Surface with the provided Feet.
  - Mounted on a Door Frame with the provided Side-Mount Bracket.
    - ⓘ Side-Mount Bracket only included when your door is ordered with a Door Frame.

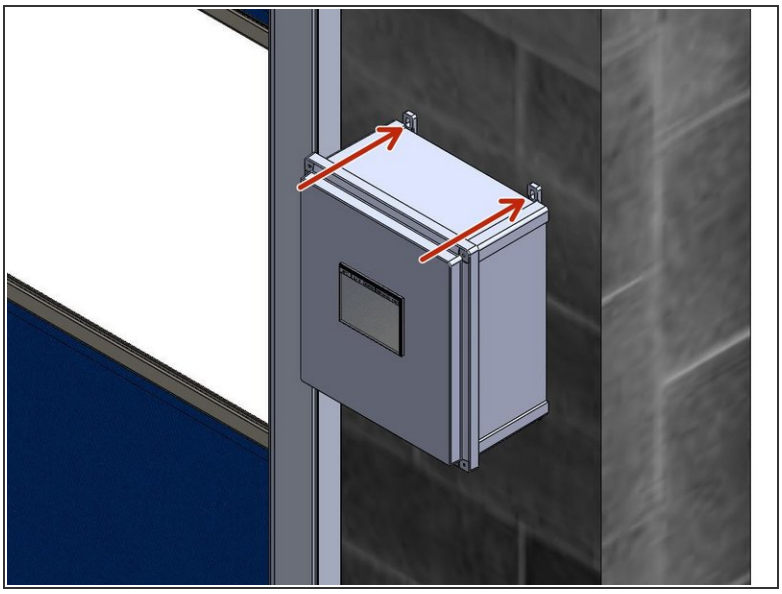
## Step 22 — Flush Mounting - Part 1

- Inside of the Goff's provided Control Panel, there will be a bag containing (4) Feet and (4) 10-32 x 1/2in Screws
- There are (4) threaded inserts in the back of the Control Panel that will receive the 10-32 x 1/2in Screws.
- Use these threaded inserts, to Fasten the provided Feet onto the Control Panel.

## Step 23 — Flush Mounting - Part 2

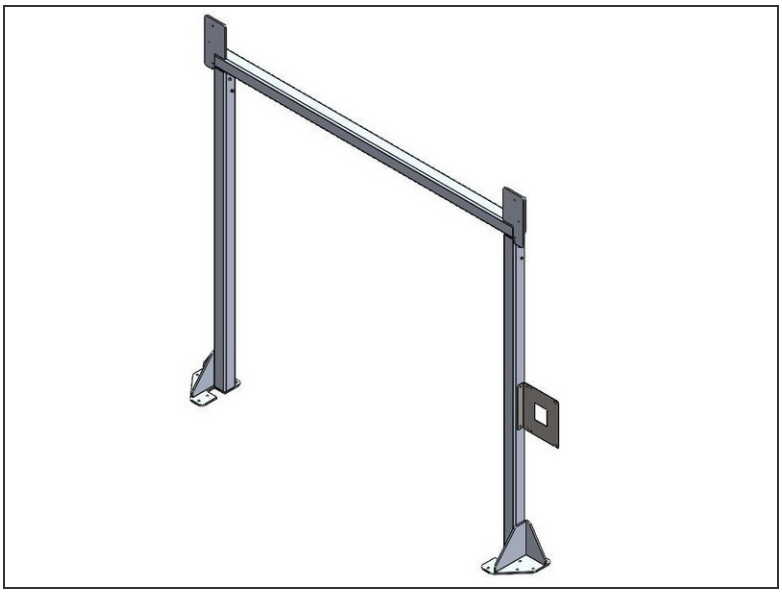


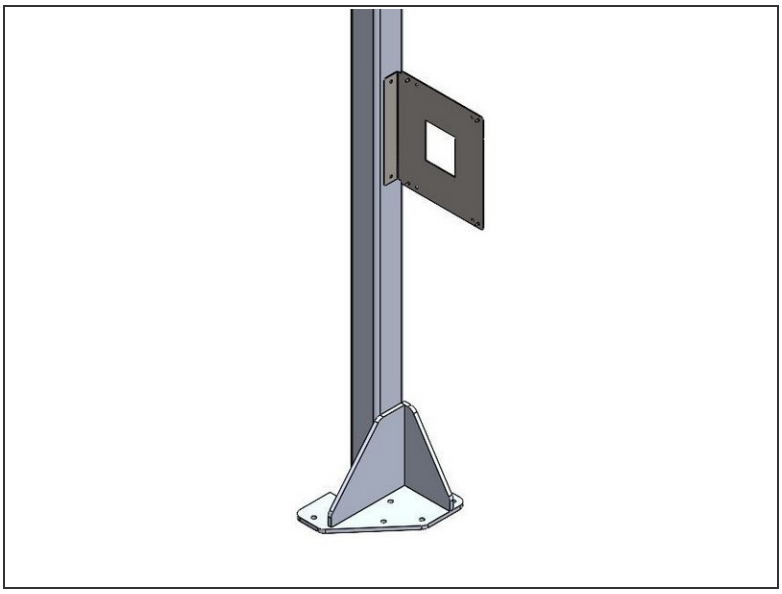


⚠ Goff's does not provide Fasteners for your Mounting Surface. It is up to you to determine the appropriate fasteners for the material you are mounting to.

- With the appropriate Fasteners, Secure the Control Panel to the wall through the Feet.
  - ⓘ The Control Panel can be Mounted at any Height or Location within 16ft of the Motor as the provided quick-connect motor cable is 16ft long.
  - ⓘ If you need a longer cable for any reason, Goff's can provide it, but you will lose the quick-connect capability between the motor and panel. This means the panel will need to be wired into the motor in the field.

## Step 24 — Side Mounting - Part 1





⚠ **When Side-Mounting a Control Panel onto a Door Frame, the Bracket must be Mounted to the Door Frame Before the Control Panel can be Mounted to the Bracket.**

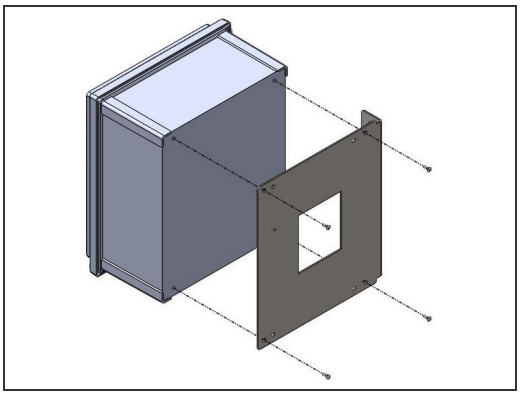
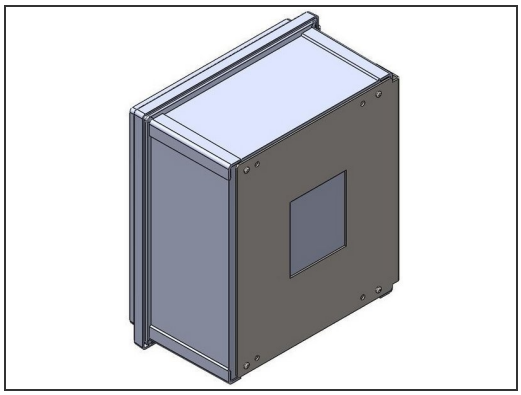
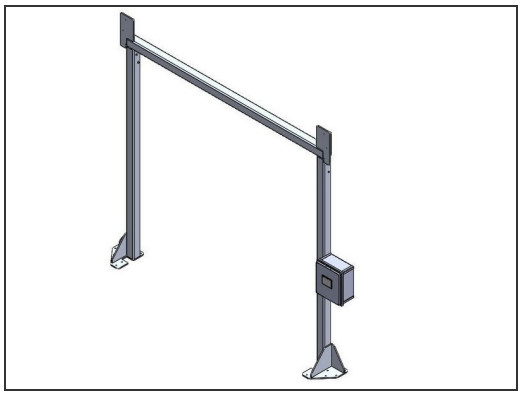
ⓘ Goff's will provide (2) Self-Drilling Fasteners to use for Mounting the Bracket to the Door Frame.

ⓘ The Bracket/Control Panel can be Mounted at any Location on the Door Frame as long as the 16ft quick-connect Cable from the Control Panel can reach the Motor.

- ⓘ If you need a longer cable for any reason, Goff's can provide it, but you will lose the quick-connect capability between the motor and panel. This means the panel will need to be wired into the motor in the field.

ⓘ The Bracket can be Flipped to allow Left- or Right-Hand Mounting.

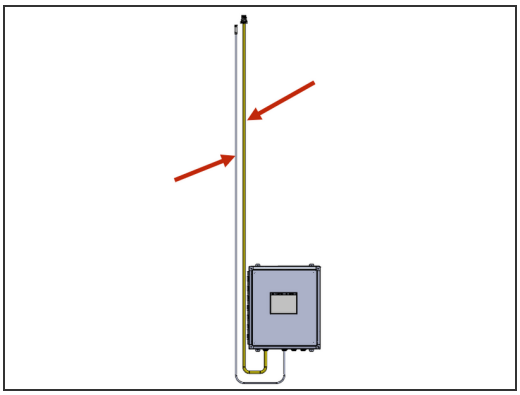
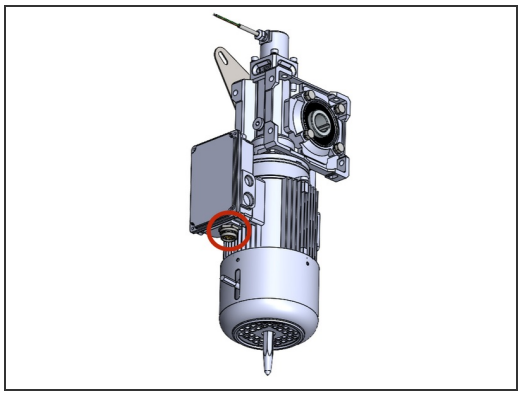
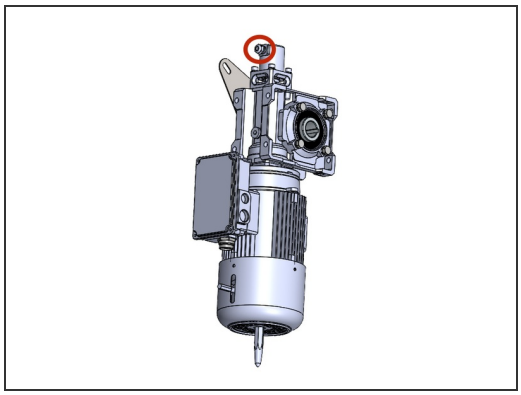
## Step 25 — Side Mounting - Part 2

- Inside of the Control Panel, there will be a bag containing (4) 10-32 x 1/2in Screws
  - ⓘ These Screws will be needed to Install Control Panel onto the Side-Mount Bracket.
- There are (4) threaded inserts in the back of the Control Panel that will receive the 10-32 x 1/2in Screws.

⚠ Use the Outer-Most Hole Pattern on the Side-Mount Bracket to ensure proper hole alignment with the Control Panel. Use these threaded inserts, to Fasten the Control Panel onto the Side-Mount Bracket.

## Step 26 — ICS3 Control Panel - Plug & Play Motor and Encoder Connections

- From the Factory, your Goff's Supplied Control Panel will have (2) Cables coming out of it. The yellow cable is for the motor, and the other smaller cable is for the encoder. These cables are equipped with quick-connect threaded plugs that will thread into a receptacle on the motor and encoder.

  ⚠ This motor cable is 16ft long. Make sure to mount the panel in a location where the cable can reach the motor.

  ⓘ If you need to shorten this cable, do it from the end terminated inside the control panel.

  ⓘ If you need a longer cable for any reason, Goff's can provide it, but you will lose the quick-connect capability between the motor and panel. This means the panel will need to be hard-wired into the motor in the field.

- Make the connections at the motor and encoder.

⚠ **It is critical to keep the high voltage motor cable, and the low voltage encoder cable separated and not tied together.**

## Step 27 — Setting the Limits at the Control Panel - Part 1 (REPLACEMENT ENCODERS ONLY)







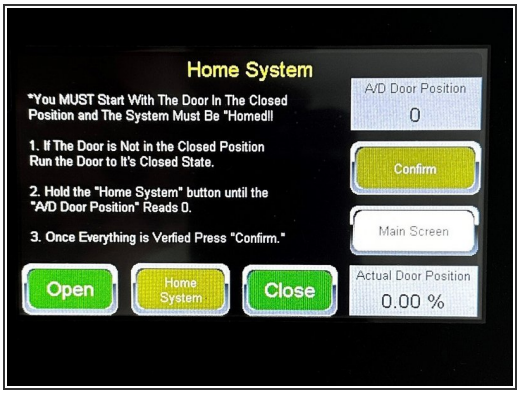
- **IF THIS IS A NEW DOOR AND THE ENCODER IS ALREADY MOUNTED ON THE MOTOR, SKIP THIS STEP.** If you are replacing an encoder, tap the following series of Buttons to get from the Home Screen to the Limit-Setting Screen:
  - Setup And Diagnostics
  - Setup > Settings > Next Screen
  - Encoder Calibration

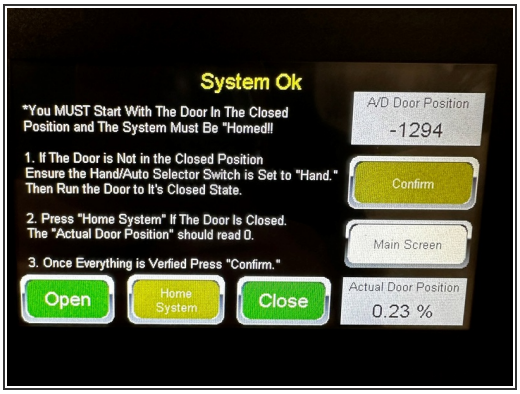
ⓘ First we need to scale the encoder. We do this by running the door

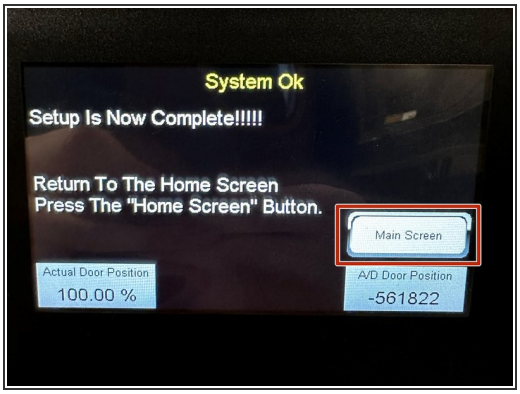
- (Image 1) First, run the door down slightly past the desired close limit position (a few inches is enough). Hit Enter and wait for the screen to switch.
- (Image 2) When the screen changes, run the door open slightly past the desired open limit position (a few inches is enough). Hit Enter and wait for the screen to switch.

- Once the screen changes again, proceed to the next step of this guide.

## Step 28 — Setting the Limits at the Control Panel - Part 2

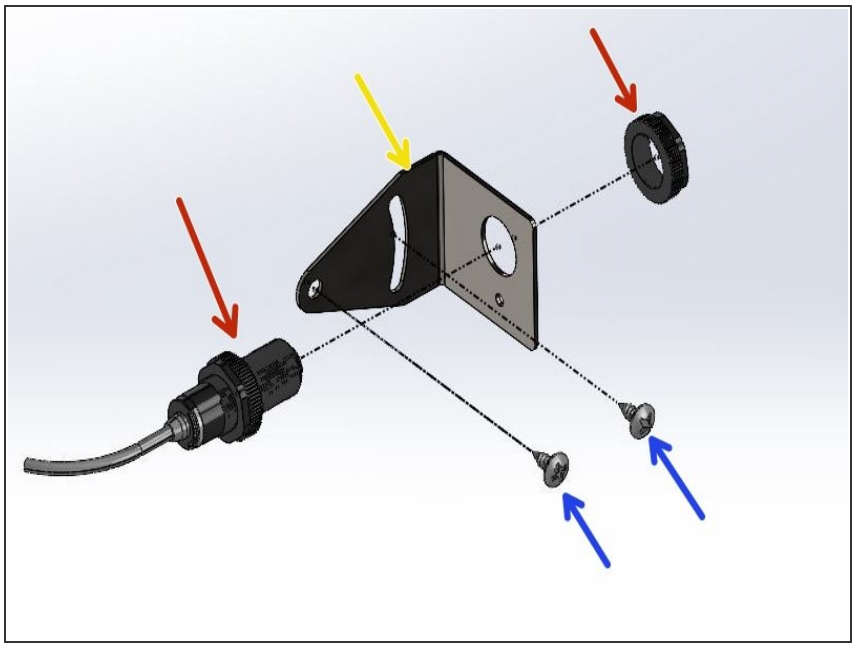



- For new doors that already have the encoder mounted on the motor, press the following series of buttons to get to the limit setting screen(s):
  - Setup & Diagnostics
  - Setup
  - Quick Setup
- Now, simply Follow the On-Screen Prompts to Teach the Open- and Closed-Limits positioned exactly as you want them.
- Once Complete. Press the "Main Screen" Button.
- You are now ready to Operate your Goff's Door.

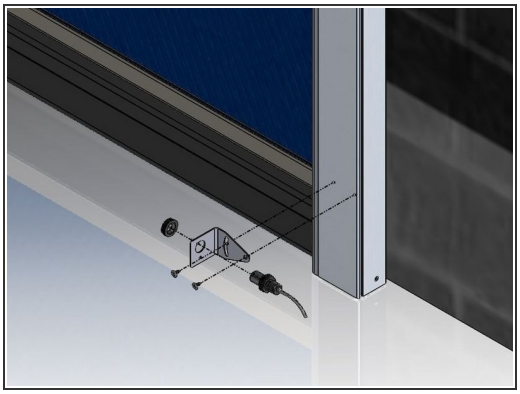
## Step 29 — G2 Teclo Photo-Eye Kit Components

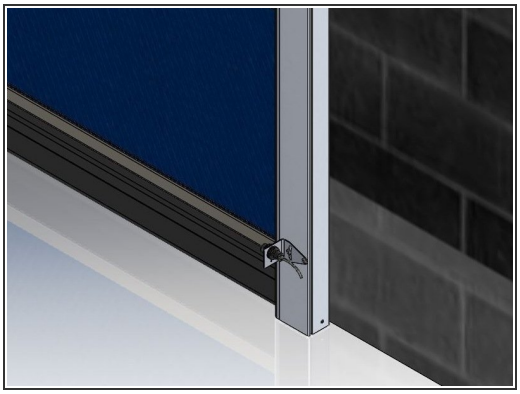


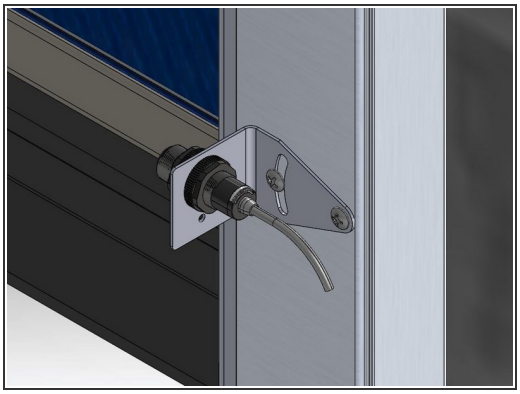
- (2) Telco Photo Eyes with Threaded, Locking Washers
  - ⓘ There is a Designated Transmitter marked "SMT".
  - ⓘ There is a Designated Receiver marked "SMR".
- (2) G2 Photo Eye Mounting Brackets
- (4) Self-Tapping Machine Screws

ⓘ Kit will include Double of what is seen in Image above.

## Step 30 — G2 Telco Photo Eye Bracket Installation





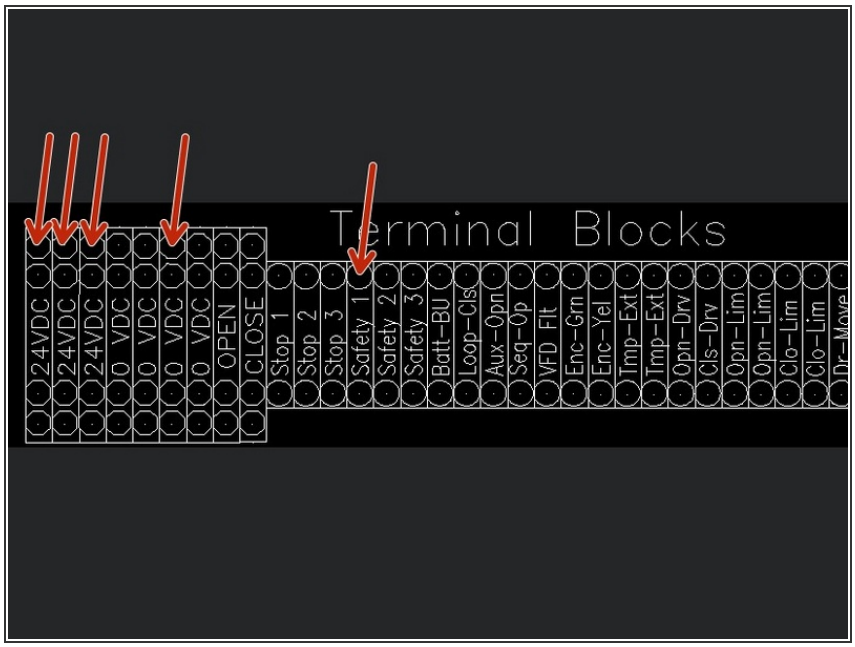


- Mark the Desired Height of the Photo-Eyes.
- Transfer the Mounting Hole Locations onto the Vertical Tracks.
- Pre-Drill Pilot Holes for the 1/4in Self-Tapping Fasteners.
  - ⓘ A 7/32in Pilot Hole works well.
- Secure the Bracket to the Vertical Tracks using the 1/4in Self-Tapping Fasteners.
- Install the Photo-Eyes into the Mounting Brackets with the Threaded Lock Washers.

## Step 31 — Factory Jumpers (Inside Control Panel)

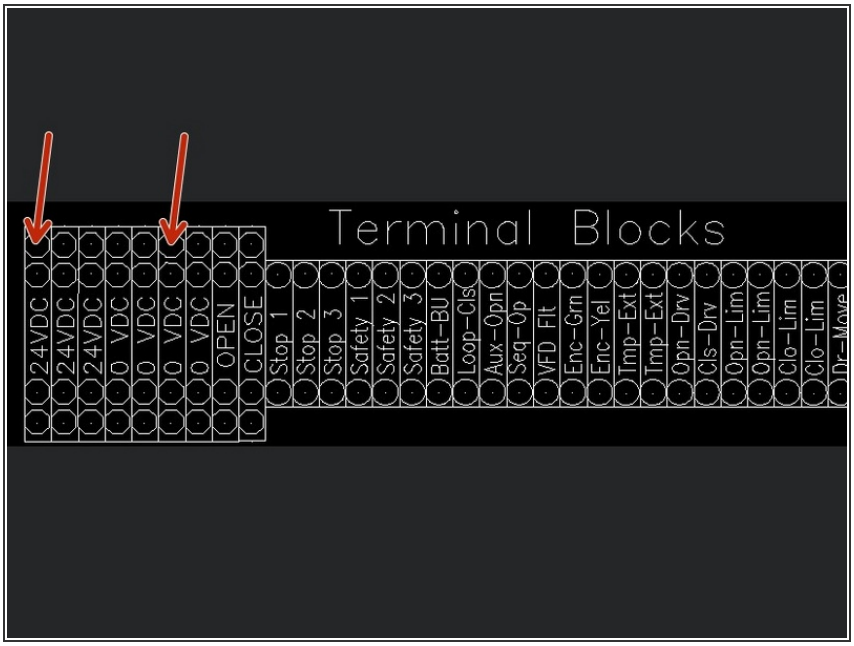
- Inside of the Control Panel (on the Main Terminal Block) you will find 2 Factory Jumper Wires.
- Remove the Factory Jumper that is between Terminals 24VDC and SAFETY1.

## Step 32 — Telco Receiver Wiring (Inside Control Panel)



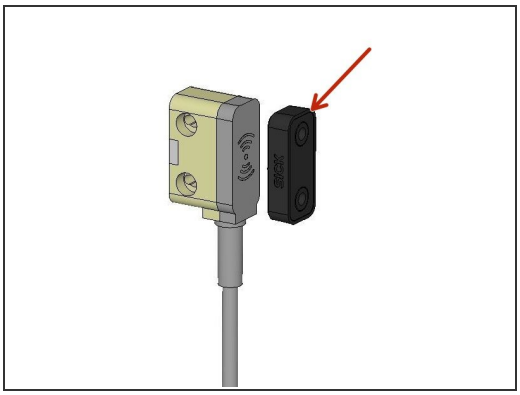
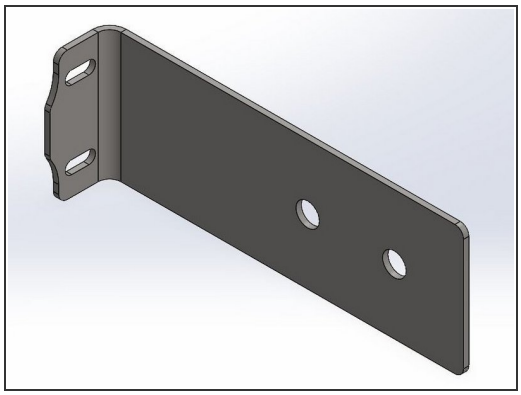
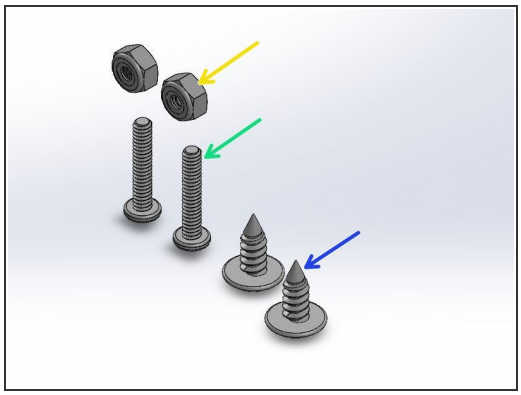

- The Receiver will be Marked "Receiver" on the device itself.
- Receiver Wiring:
  - Brown Wire - 24VDC
  - Gray Wire - 24VDC
    - ⓘ The Brown and Gray Wires can be twisted together and placed in the same 24VDC terminal
  - Blue Wire - 0VDC
  - White Wire - Safety 1
  - Black Wire - 24VDC

## Step 33 — Telco Transmitter Wiring (Inside Control Panel)



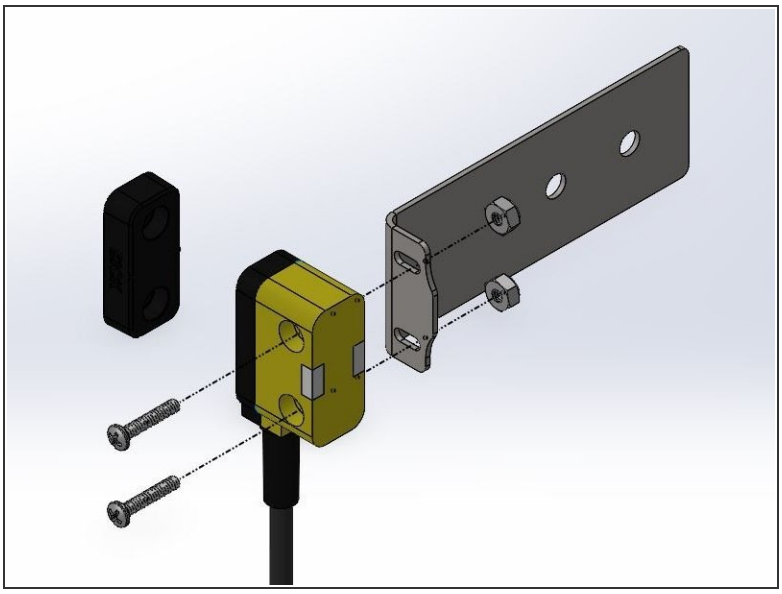

- The Transmitter will be Marked "SMT" on the device itself.
- Transmitter Wiring:
  - Brown Wire - 24VDC
  - ⓘ Gray Wire - Not Used
  - Blue Wire - 0VDC
  - ⓘ Black Wire - Not Used
  - ⓘ White Wire - Not Used

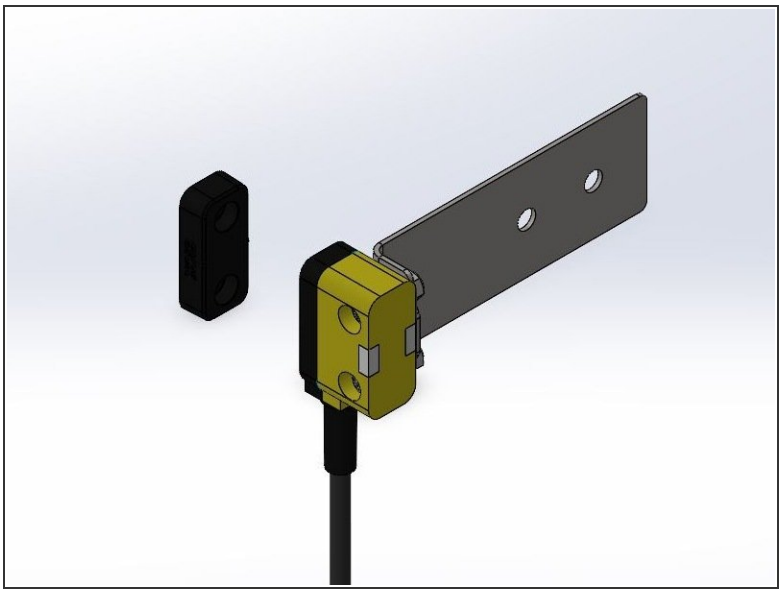
## Step 34 — Sensor Kit Components

- Sick Sensor Kits (x2)
  - The RFID Tags will be Mounted to the Vinyl Panel just Above the Bottom Wind Bar upon Receipt
  - ⓘ Wires, Cables, and Connectors Included
- Sensor Mounting Brackets (x2)
- All Necessary Fasteners
  - (2) 6-32 x 3/4" Long Phillips Head Screws
  - (2) 6-32 Nylon Lock Nuts
  - (2) #14 x 1/2" Phillips Head Sheet Metal Screws

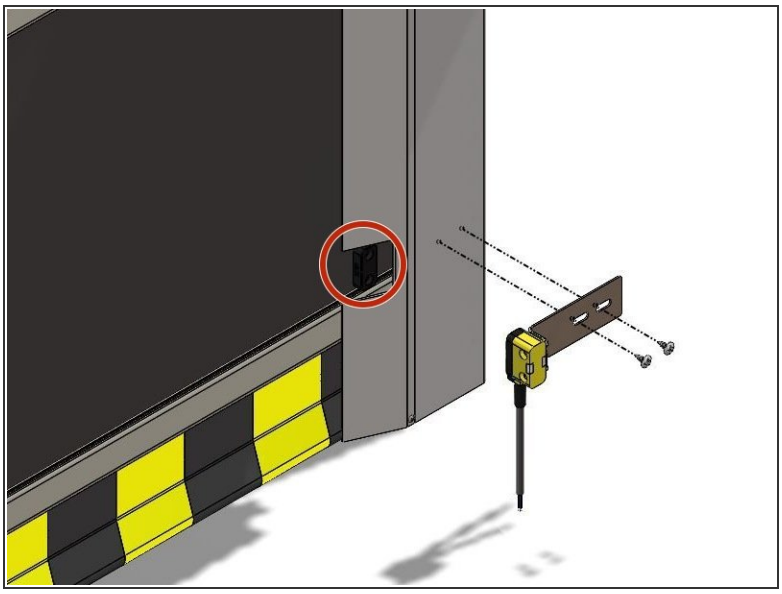
## Step 35 — Sensor + Bracket Assembly

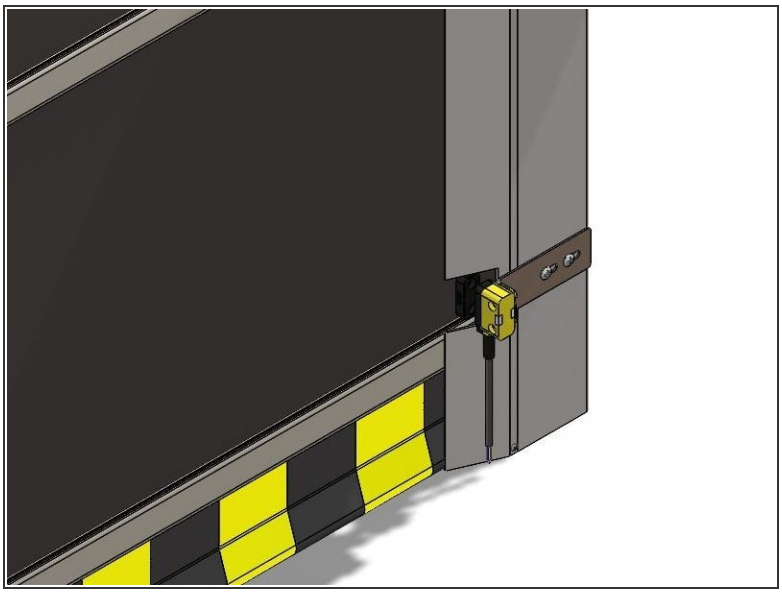




- Insert the 6-32 x 3/4" Screws Through the Sensor so that the Screw Heads sit Recessed in the Sensor Housing.
  - ⓘ See Exploded View
- Noting the Orientation of the Bracket, Place the Bracket onto the Screws and Secure with the 6-32 Nylon Lock Nuts.

## Step 36 — Installing on the Vertical Tracks





- With the Door in the Closed Position, you will see the RFID Tags Mounted to the curtain/bottom-most Wind Bar.

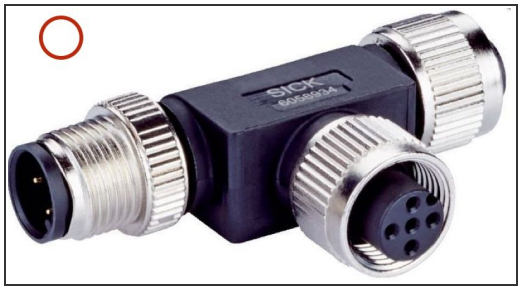
⚠ **Make Sure the Close-Limit is set Appropriately BEFORE Mounting the Sensors.**

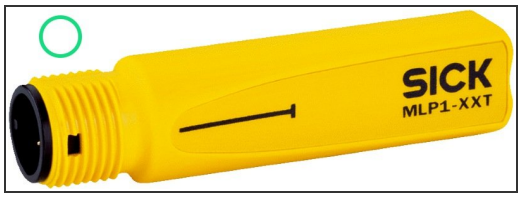
- Make a cutout in the vertical track weather seal so that you can see the RFID tag while the door is closed. Make the cutout slightly larger than the RFID tag.
- Using the #14 x 1/2" Sheet Metal Screws, Mount the Sensor and Bracket Assembly at a Height that Aligns the Sensor with the RFID Tag.

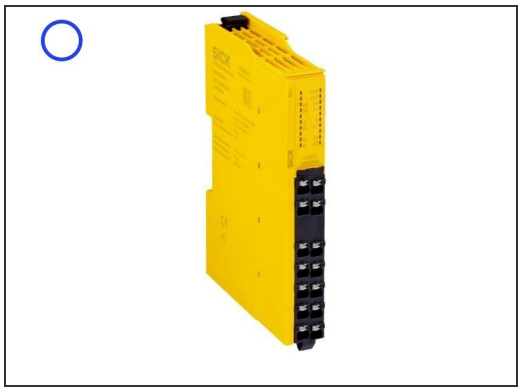
  ⓘ It is Best to Drill Small Pilot-Holes First.

- There are Slots in the Mounting Brackets to allow Adjustment of the Sensors In/Out and Left/Right.

## Step 37 — Wiring Components

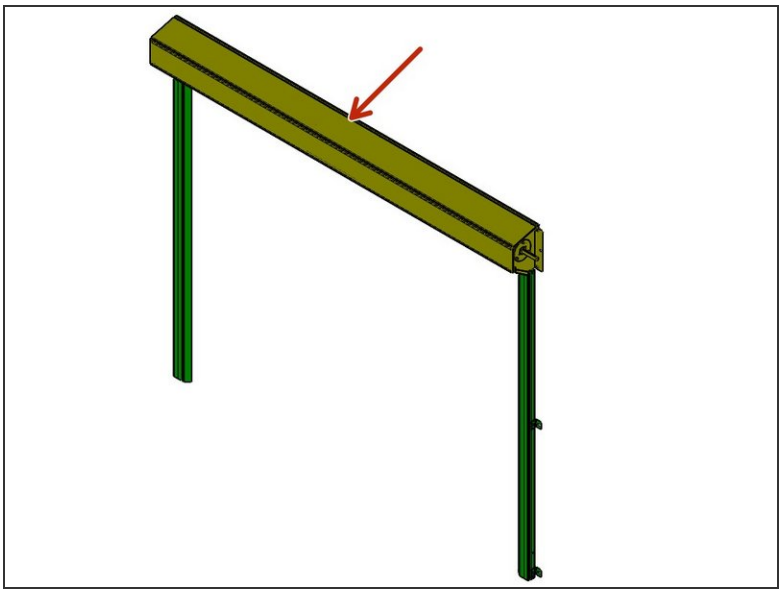


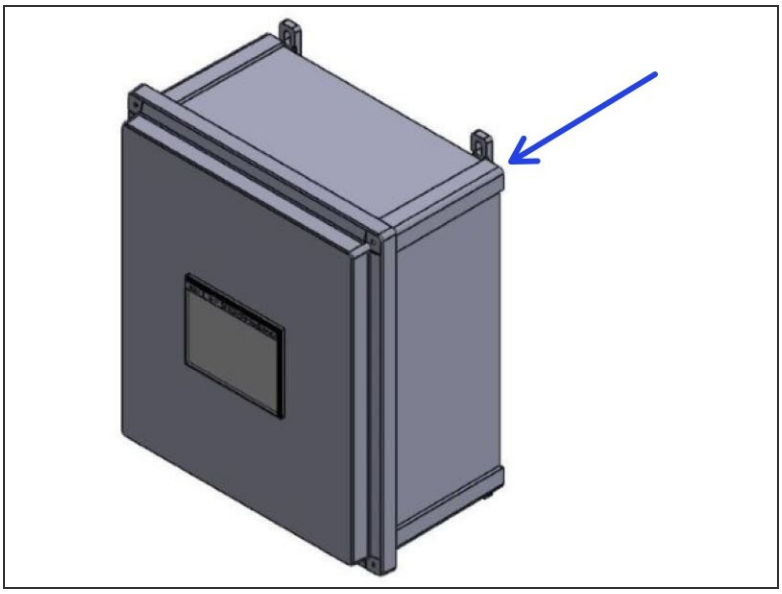


- (2) T-Junctions
  - Each T-Junction contains (1) Male 5-Pin Connection, (1) Female 5-Pin Connection, and (1) Female 8-Pin Connection Point.
- (1) 5-Pin End Connector MLP1-XXT
- (1) Relay
- (2) Dual 8-Pin Connector Cables
- (2) Dual 5-Pin Connector Cables
- (1) 5-Pin to 4-Wire Cable

## Step 38 — Cable Routing

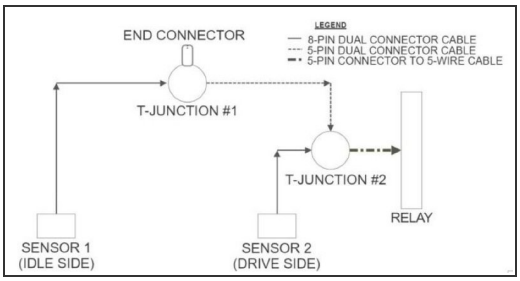


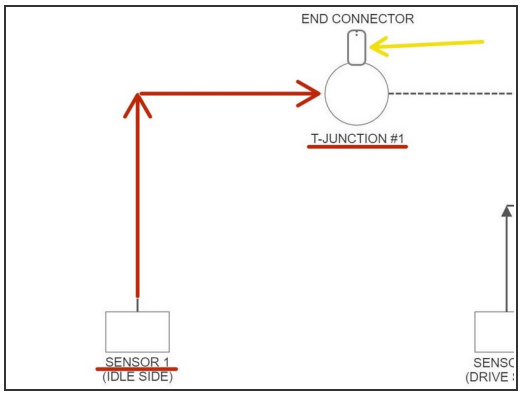


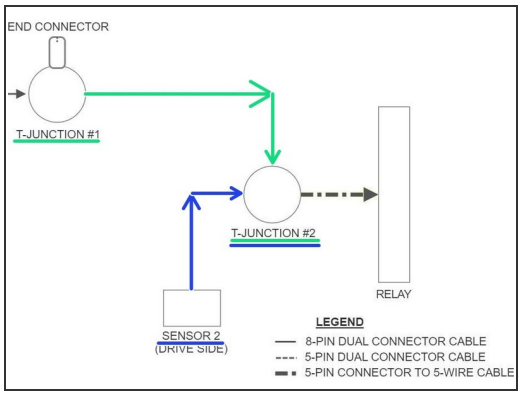
- It is Best to Locate T-Junction #1 Somewhere between Sensor 1 and Sensor 2.
  - A Good Spot is above the Header
- It is Best to Locate T-Junction #2, as well as the Relay, Inside of the Control Panel.

ⓘ Route the Cables Up and Around Using the Door to Secure them Every Few Feet.

## Step 39 — Wiring Schematic Part 1



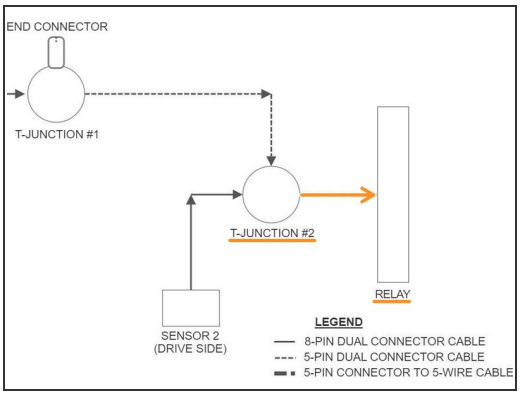



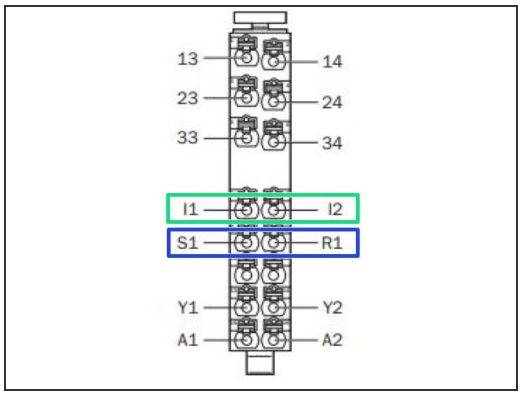



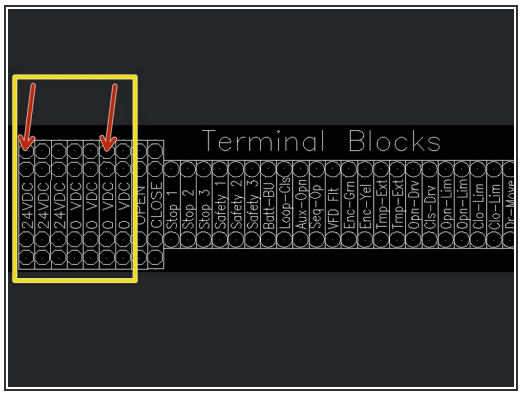

ⓘ All Connections between Sensors, T-Junctions, and End-Connectors are Screw Connections. There will be only 4 Wired Connections. Two at the Relay, and Two at the Terminal Block within the Goff's Control Panel.

- See the Basic Layout in Image 1.
- Connect Sensor 1 (Idle Side) to T-Junction #1 with an 8-Pin Dual Connector Cable.
- Screw the 5-Pin End-Connector onto T-Junction #1.
  - See Image 2.
- Connect T-Junction #1 to T-Junction #2 with a 5-Pin Dual Connector Cable.
- Connect Sensor 2 (Drive Side) to T-Junction #2 with a 5-Pin Dual Connector Cable.
  ⓘ See Image 3.

## Step 40 — Wiring Schematic Part 2




- Connect T-Junction #2 to the Relay with the 5-Pin to 4-Wire Cable.
  - Screw the 5-Pin Connector onto T-Junction #2.
- On the Relay, Using the Bare-Wire End of the Cable, Connect the White Wire to I1, and the Black Wire to I2.
- On the Relay, Put a Jumper Wire between S1 and R1.
- On the Terminal Block Inside your Goff's Control Panel, Connect the Brown Wire to 24VDC, and the Blue Wire to 0VDC.

## Step 41 — Integration

**Interfaces**

Inputs
- 2 safety capable inputs
- Input for reset pushbutton or external device monitoring

Outputs
- 3 enabling current paths (safe)
- 2 application diagnostic outputs (not safe)
- Test output (not safe)

| Terminal | Description |
|---|---|
| 13, 14 [1) 2)] | Enabling current path |
| 23, 24 [1) 2)] | Enabling current path |
| 33, 34 [1) 2)] | Enabling current path |
| I1 | Safety capable input |
| I2 | Safety capable input [3)] |
| S1 [2) 4)] | Reset pushbutton input, external device monitoring (EDM) |

**Status indicators**

**LEDs**

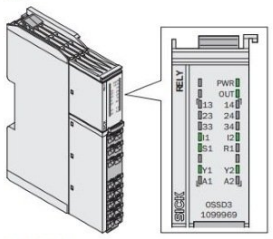



*Figure 2: LEDs*

The labeled positions are only partially assigned LEDs. The positions and their labeling (except for the upper 2 lines) also show the pin assignment of the terminals on the front connector.

*Table 1: Safety relay indicators*

| Labeling | Color | Function |
|---|---|---|
| PWR | Green/Red | Voltage supply |
| OUT | Green | Enabling current paths |
| I1 | Green | Safety capable input |
| I2 | Green | Safety capable input |
| S1 | Green | Reset pushbutton input, external device monitoring (EDM) |
| Y1 | Green | Application diagnostic output |
| Y2 | Green | Application diagnostic output (reset required) |

- To Integrate Industrial and/or Automation Equipment, Connect to Terminals:
  - 13 and 14
  - 23 and 24
  - 33 and 34

  ⓘ These are Safe Circuits, controlled by the Sensors previously Installed, that can Turn Equipment On/Off Based on the Status of the Sensors and their Circuits.

For More Information, Please Read the Manuals that are Included with the Sick Sensor Kits.