Projection Mount Machine Guard Door Installation

Projection Mount Machine Guard Door Installation 123531

Written By: Mike Bonness

TOOLS:

- 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)

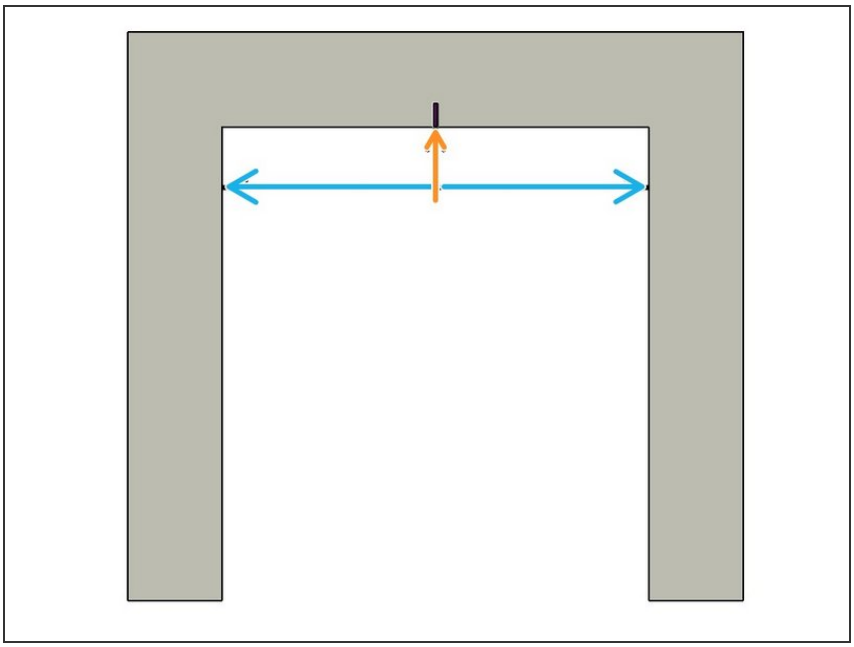
Step 1 — Review Product and Warnings

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

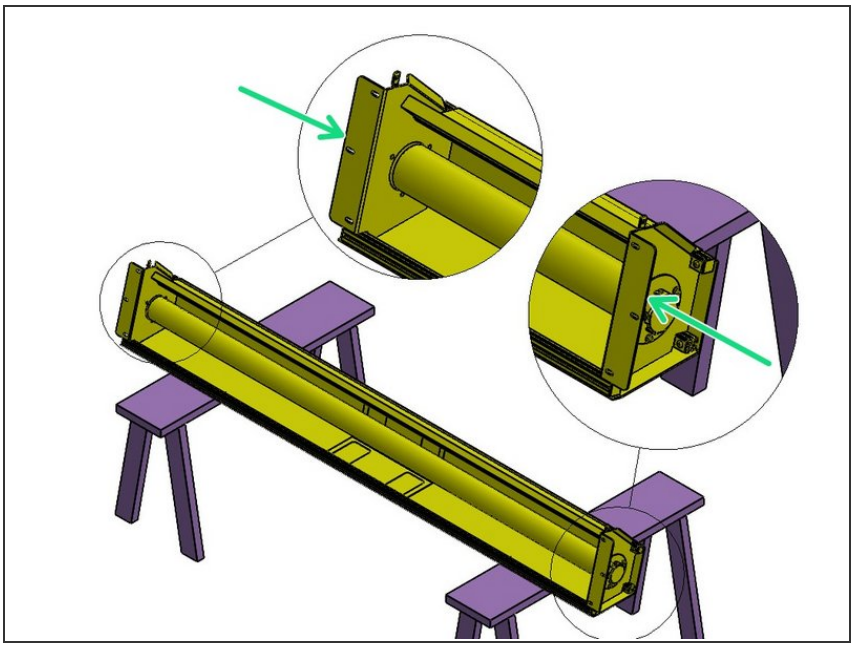
This document was generated on 2026-02-13 08:33:28 AM (MST).

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.

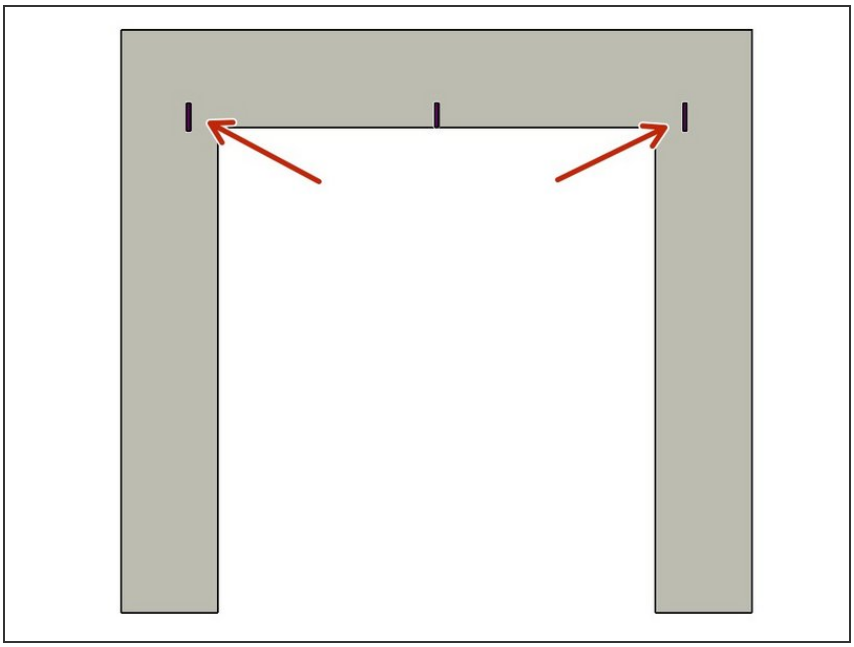
Step 3 — Measure Door Header Width



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

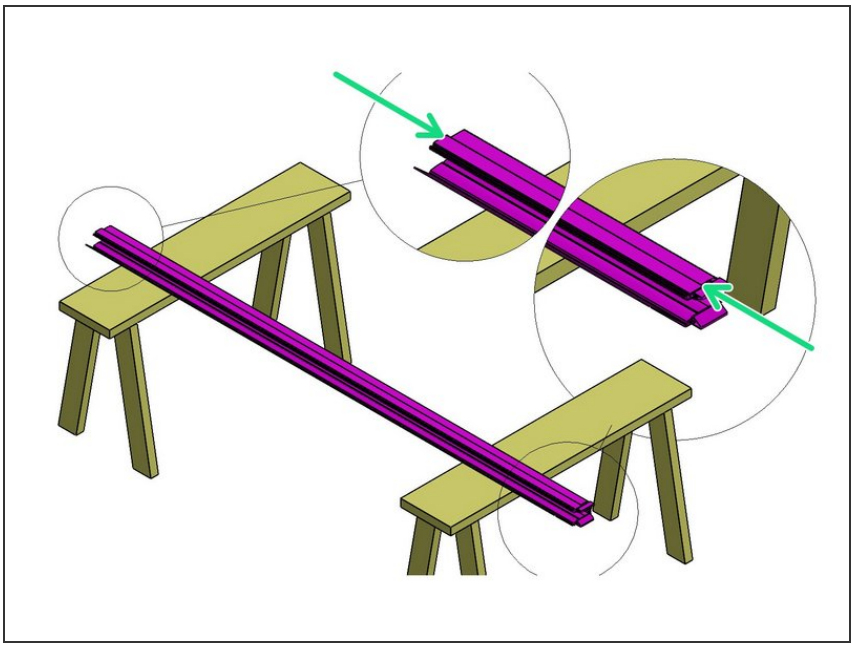
- Place the Door roll Header Assembly across a safe and level work surface, and rotate the roll assembly frame so that the Header Bracket Mounting flanges are facing upward.
- Measure the total width of the whole roll assembly from outermost edge of one Header Bracket's Mounting flange to the outermost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



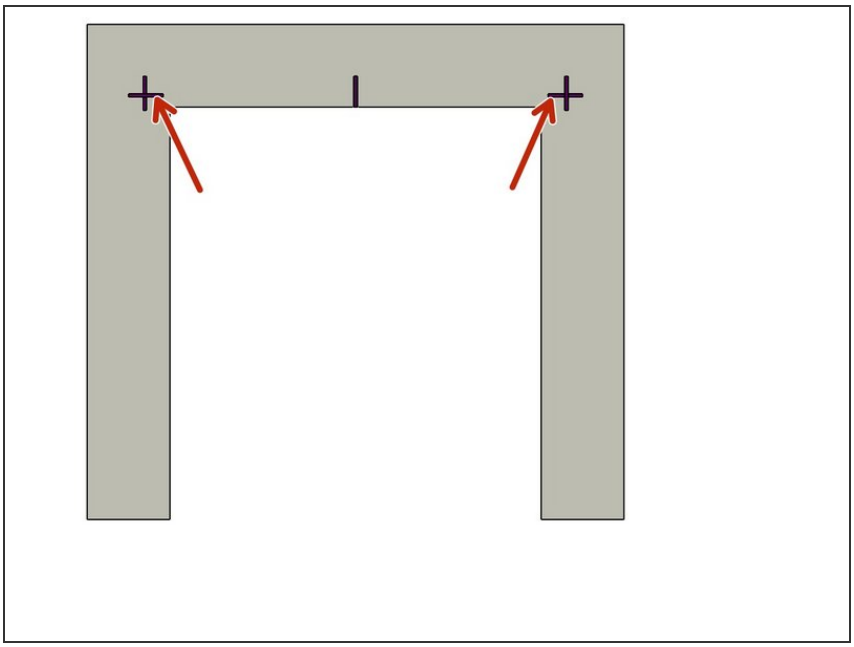
- Mark this dimension on each side of the Opening Center mark.

Step 5 — Measure Track Height



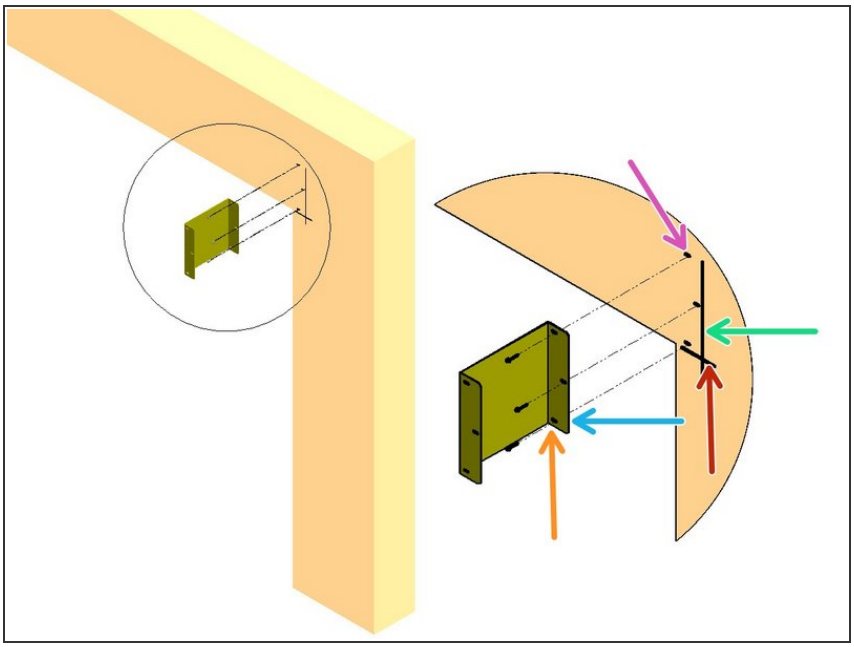
- Lay one of the Vertical Track Assemblies on your work surface.
- Measure the Length of the Aluminum Track only.
- Add 1/4" to the Track dimension.
- This is the Height dimension needed to mark the location of the Bottom edge of the Header Mounting Brackets.

Step 6 — Mark the Track Height on the Opening



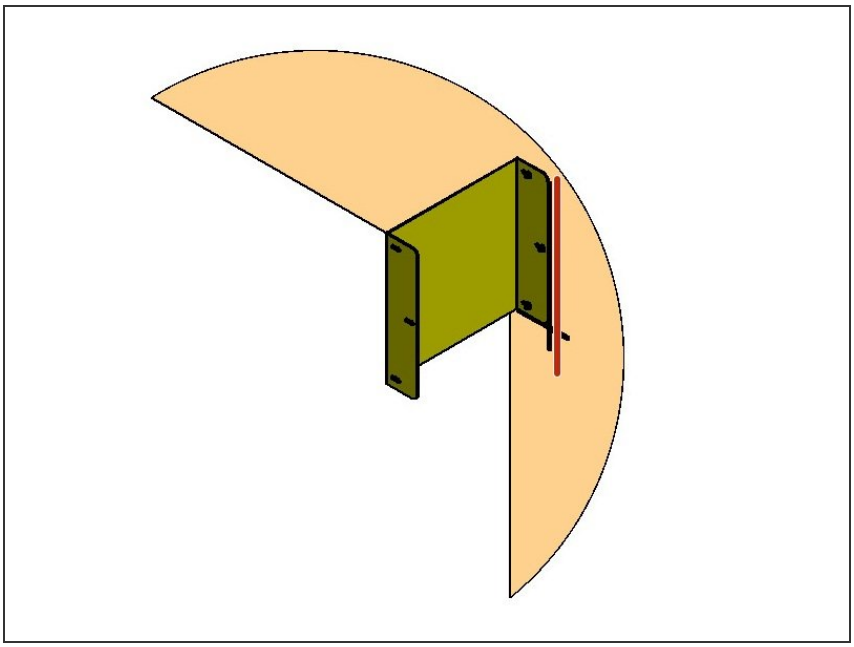
- Add a Horizontal line on each side of the Opening that intersects the previously drawn Vertical line.

Step 7 — Orient Projection Brackets



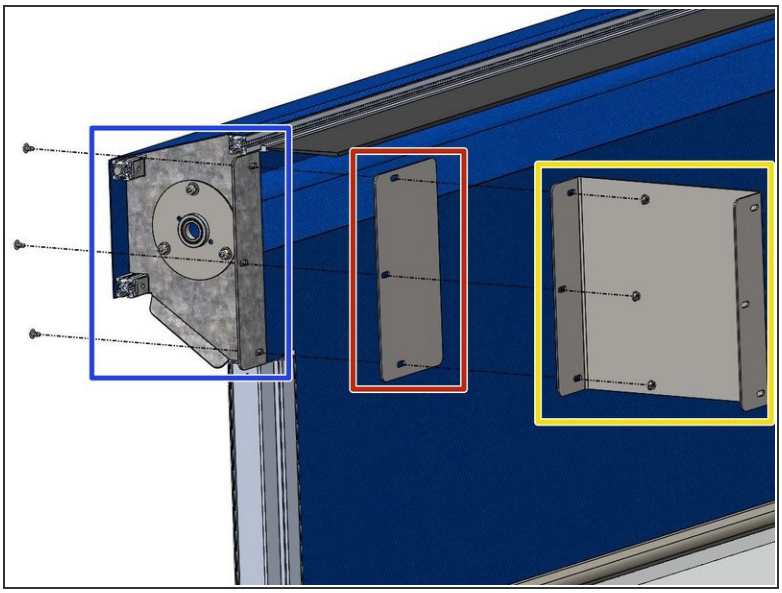
- Orient the slotted end of the Header Mounting Projection Bracket against the Mounting Surface.
- Orient the flange outward.
- Align the Bottom surface of the Header Mounting Bracket with the Horizontal line on the Mounting Surface.
- Align the Outer edge of the Header Mounting Bracket with the Vertical line on the Mounting Surface.
- Trace the slotted mounting slots onto the Mounting Surface.

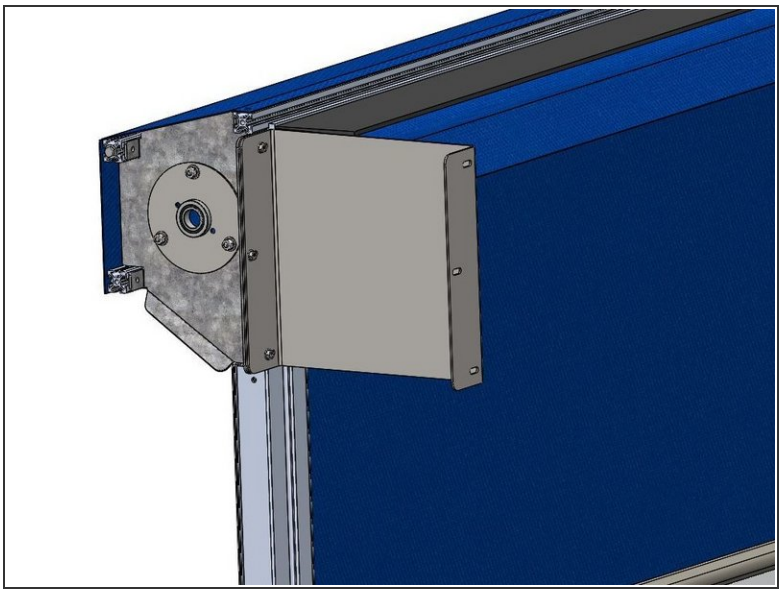
Step 8 — Fasten Projection Brackets



- Loosely fasten Bracket to the Mounting Surface with appropriate hardware.
- Plumb the Bracket.
- Tighten Hardware securely.
- Repeat for the other Header Mounting Bracket.

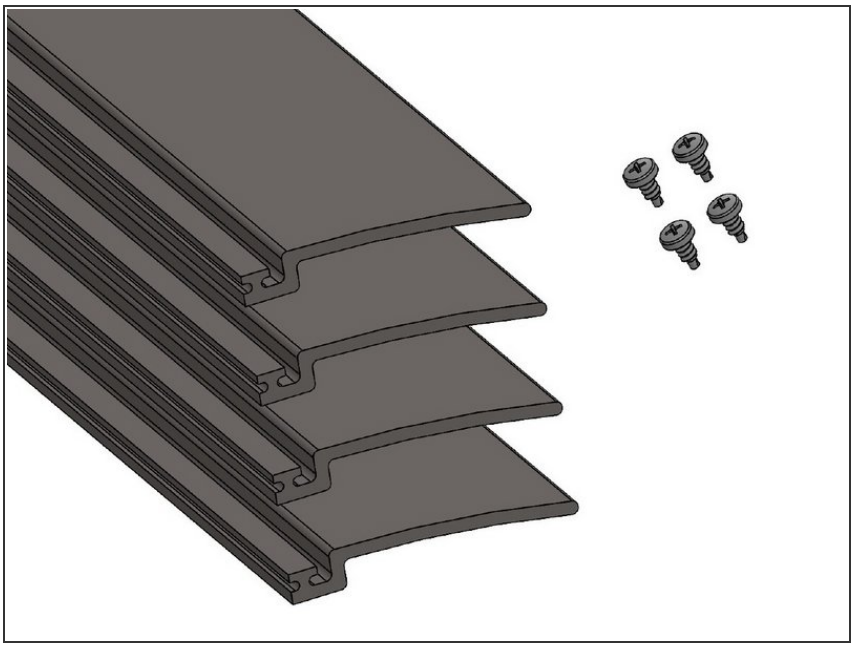
Step 9 — Raise and Attach Roll Header Assembly





- After Installing your Header Projection Mount Brackets to the Wall:
- Sandwich the G2 Header Backer Bracket between:
  - The Header Projection Mount Bracket (On the Wall).
  - And the Door Header Assembly Side Plate.
- Fasten the (3) Brackets together using the provided Screws, Washers, and Serrated Flange Nuts.

Step 10 — **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.

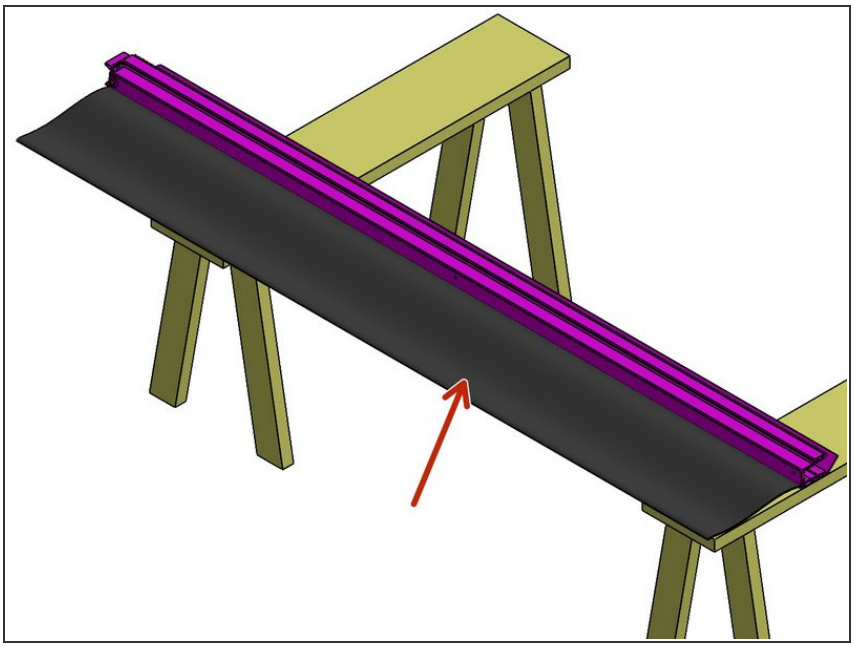
Step 11 — Overview Notes - G2 Track Installation

⚠ 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.

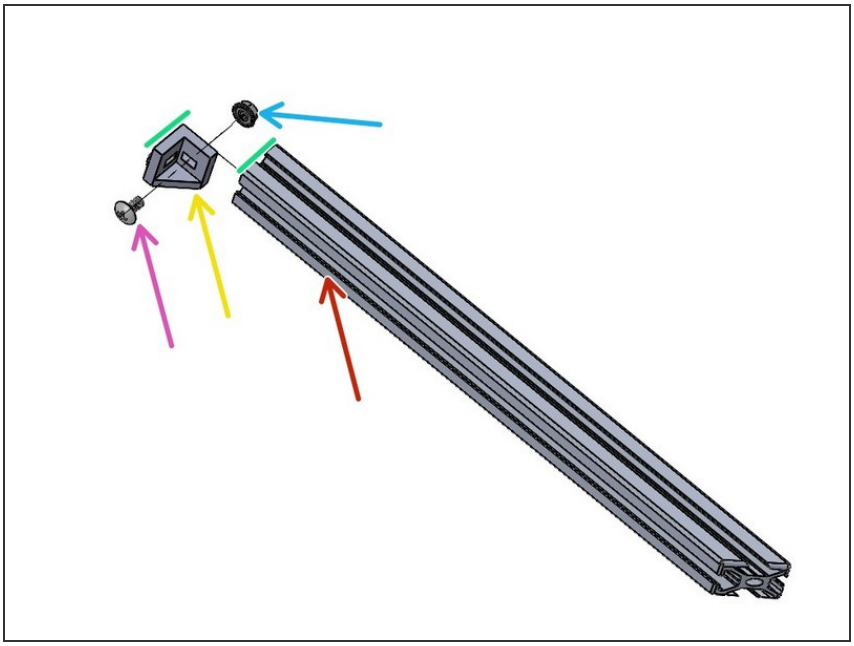
⚠ The Track must be plumb before securing it to the Mounting Surface.

Step 12 — Prepare and Mount the Track Assemblies



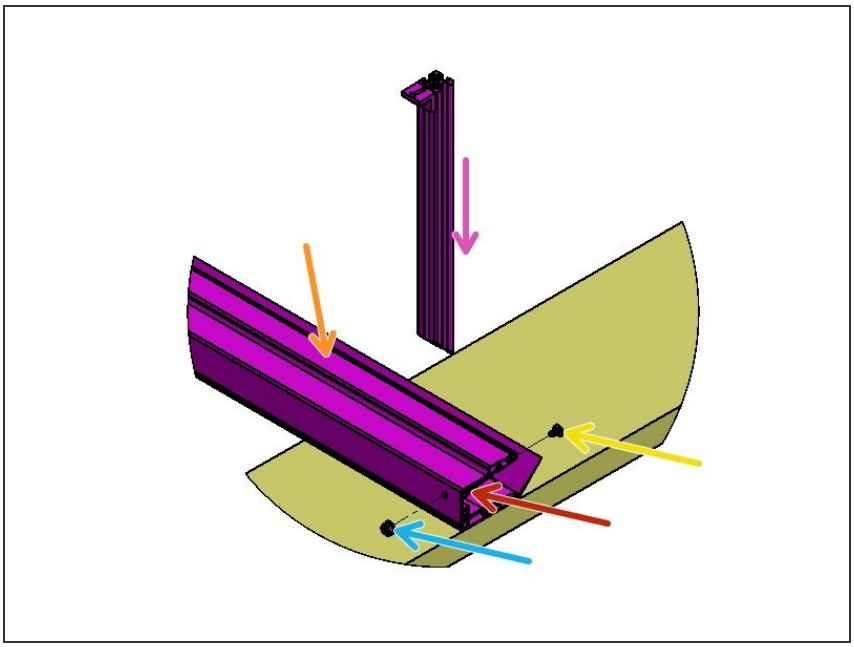
- ⓘ The Track Assemblies are marked for orientation as Left side, and Right side.
- Lay a Track Assembly on a work surface, and un-roll the Side Seal material.

Step 13 — Assemble the Projection Brackets



- Insert the 1/4" Screw
- through the Gusset
- Thread the Nut on the first Screw thread
- Slide the nut into the shortest side of the extruded Bracket.
- Flush the Gusset and Bracket, then tighten the pack securely.

Step 14 — Assemble Projection Brackets to Track



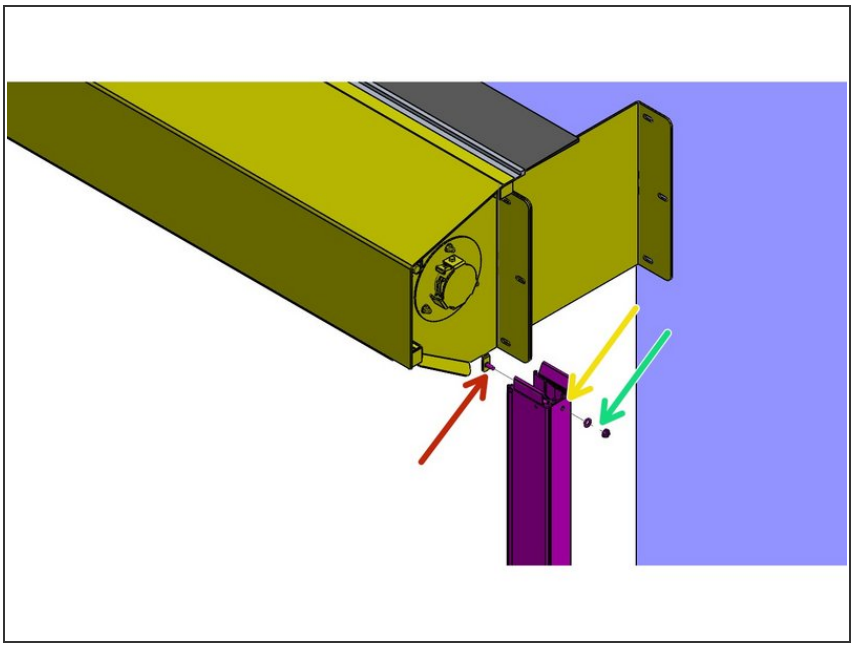
- Lay the Track Face down. The Track Back has two different widths from the Front face.
- Insert a 1/4" Screw
  - through a hole from the Inside of the Track.

  ⓘ Tracks are Pre Drilled for Projection Brackets at mid-Height and near the Bottom.
- Thread a Nut on, from the outside of the Track, about one thread.
- Slide the Long side of the Projection Bracket under the Nut.

ⓘ Hold the Edge of the Bracket about .4" from the Front Edge of the Track, Square the parts up, then tighten the pack snugly. This will be adjusted later to Plumb the Track.

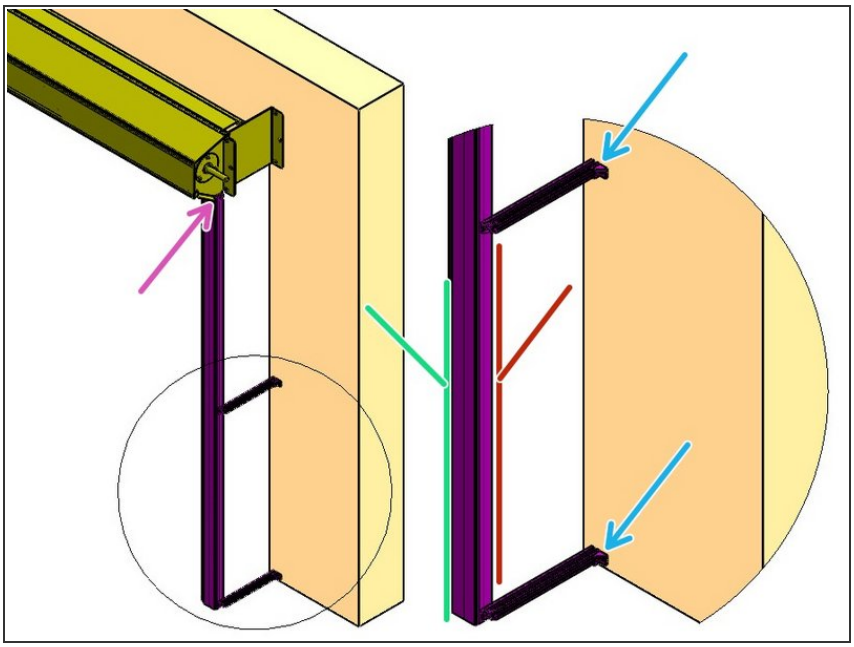
- Repeat for the other Bracket into the other hole in the Track.

Step 15 — Projection Mount Track Installation



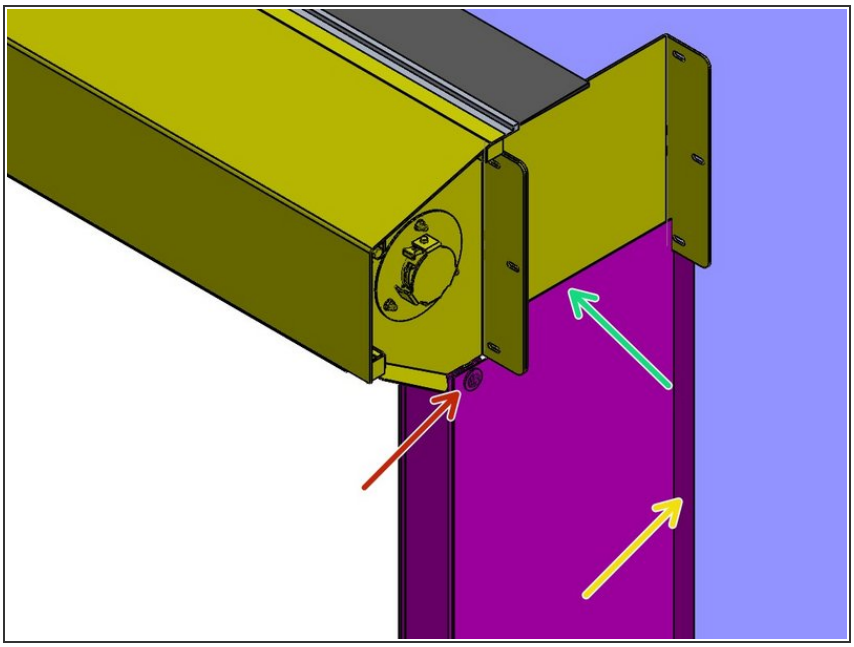
- The Track assembly mounts to the outside of the tab of the Header Assembly Mounting Bracket.
- Install the Track onto the Bolt on the Outside of the Header Bracket Tab
- Slide the Washer onto the Bolt from the outside of the Track, and snug the Hex Nut on the Bolt. (This Track Mount hardware will be removed in later steps.)

Step 16 — Install Track Brackets on Mounting Surface



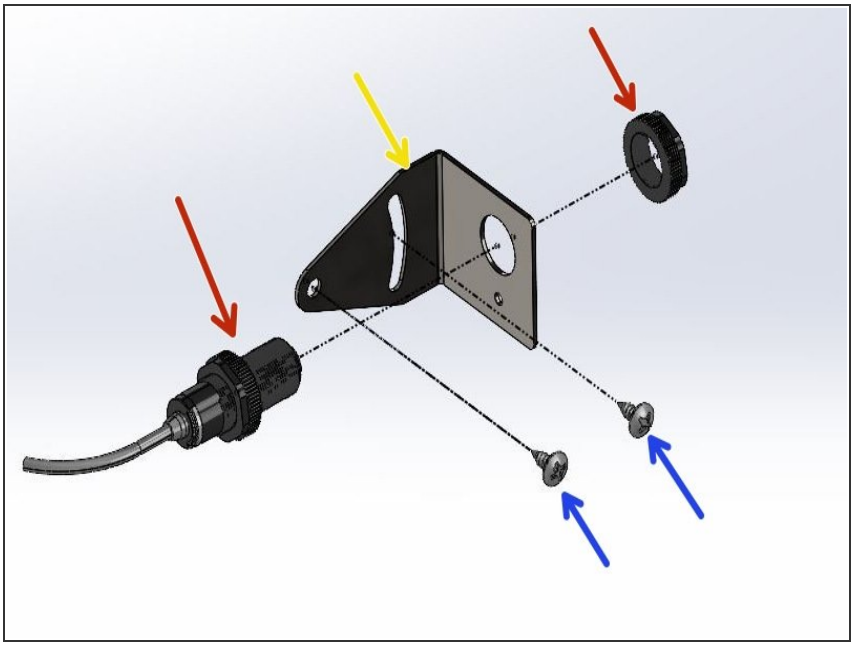
- Plumb the Track Left to Right.
- Transfer the Mounting Hole locations onto the Mounting Surface.
- Remove the Track, and prepare these locations for Hardware appropriate to the Building Material.
- Reinstall, snugly, the Track Mount Hardware. (It will be removed again in a later step.)
- With the track “hanging” in this position, Plumb the Track Left to Right.
- Secure the Track Brackets to the Mounting Surface.
- Plumb the Track Front to Back by loosening the Track Bracket Screws.
- Tighten all of the Hardware Securely.

Step 17 — Install the Side Seal Material



- Remove the Track Mounting Hardware.
- Re-Install the Hardware with the Side Seal Grommet under the Washer and Nut, then tighten Securely.
- Affix the Hook and loop Material to the Header Bracket along the Top Edge of the Side Seal Material.
- Fold and Secure the Side Seal Material to the Mounting Surface

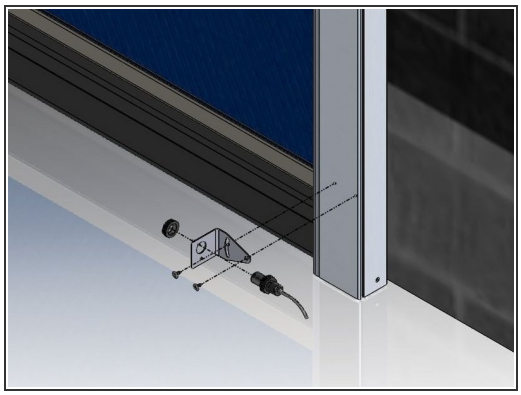
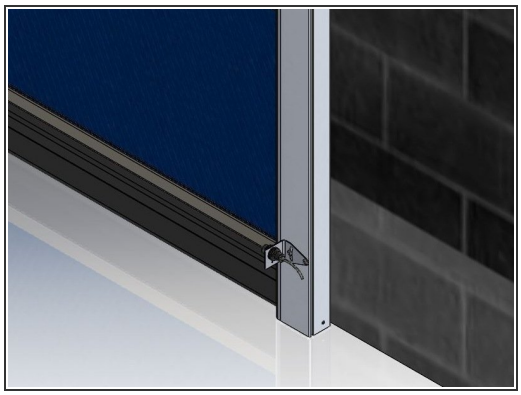
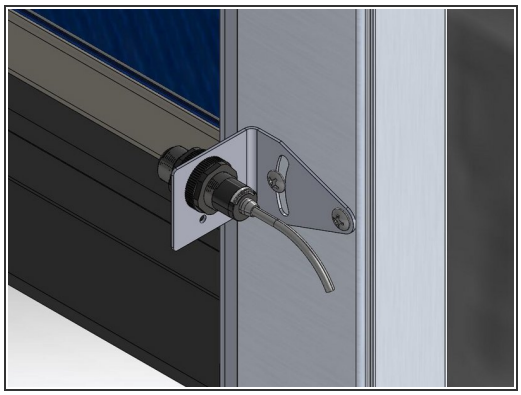
Step 18 — G2 Teclo Photo-Eye Kit Components



- (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 19 — G2 Telco Photo Eye Bracket Installation

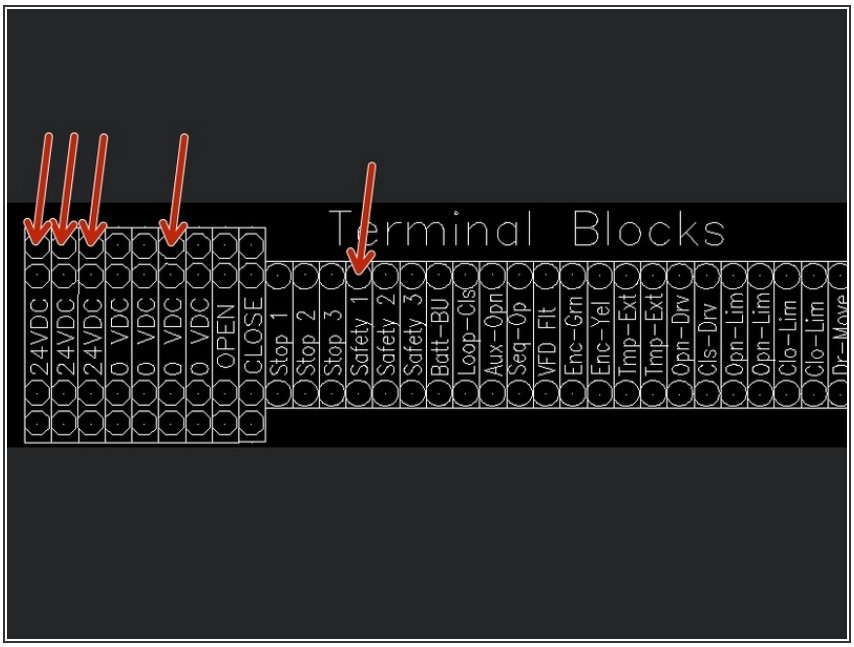




- Mark the Desired Height of the Photo-Eyes.
- Transfer the Mounting Hole Locations onto the Vertical Tracks.
- Pre-Drill Pilot Holes for the 1/4in Self-Tapping Fasteners.
  - ⓘ A 7/32in Pilot Hole works well.
- Secure the Bracket to the Vertical Tracks using the 1/4in Self-Tapping Fasteners.
- Install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

Step 20 — Factory Jumpers (Inside Control Panel)

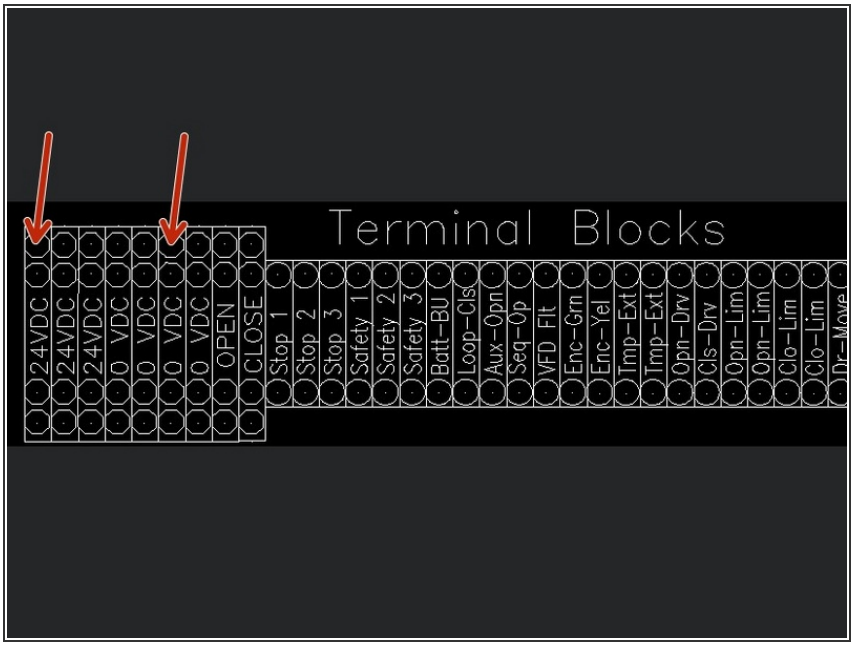
- Inside of the Control Panel (on the Main Terminal Block) you will find 2 Factory Jumper Wires.
- Remove the Factory Jumper that is between Terminals 24VDC and SAFETY1.

Step 21 — Telco Receiver Wiring (Inside Control Panel)



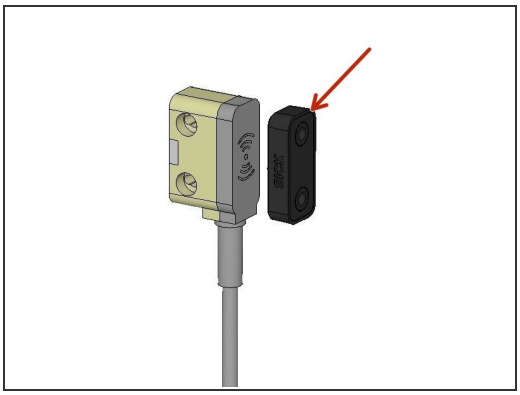
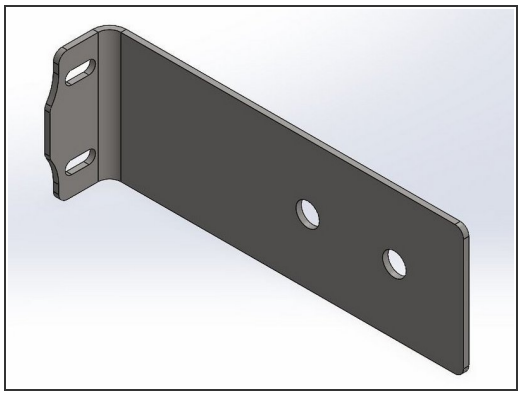
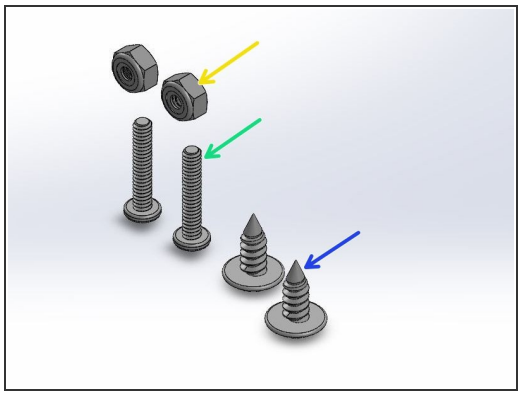
- The Receiver will be Marked "Receiver" on the device itself.
- Receiver Wiring:
  - Brown Wire - 24VDC
  - Gray Wire - 24VDC
    - ⓘ The Brown and Gray Wires can be twisted together and placed in the same 24VDC terminal
  - Blue Wire - 0VDC
  - White Wire - Safety 1
  - Black Wire - 24VDC

Step 22 — Telco Transmitter Wiring (Inside Control Panel)



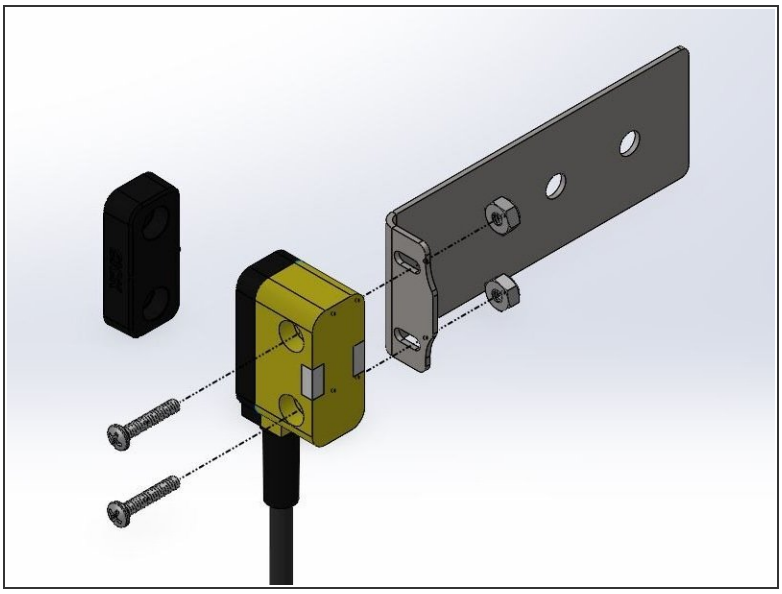
- The Transmitter will be Marked "SMT" on the device itself.
- Transmitter Wiring:
  - Brown Wire - 24VDC
  - ⓘ Gray Wire - Not Used
  - Blue Wire - 0VDC
  - ⓘ Black Wire - Not Used
  - ⓘ White Wire - Not Used

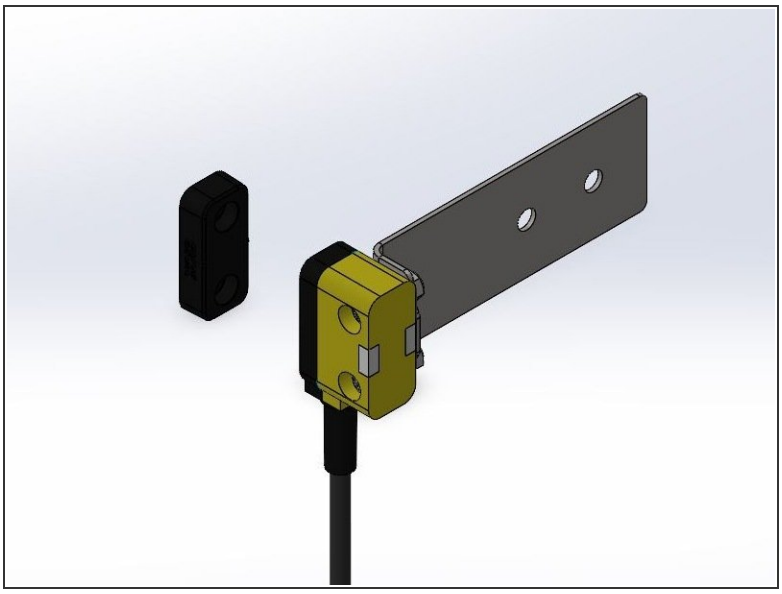
Step 23 — Sensor Kit Components

- 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

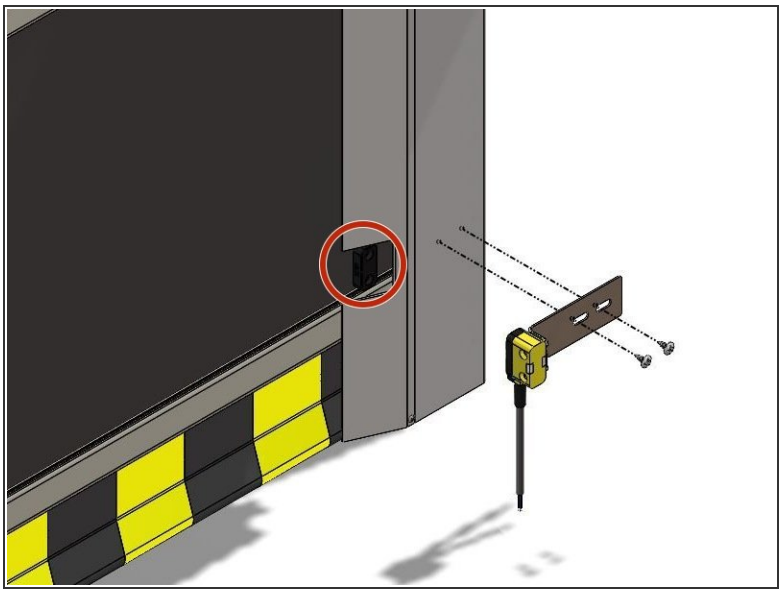
Step 24 — Sensor + Bracket Assembly

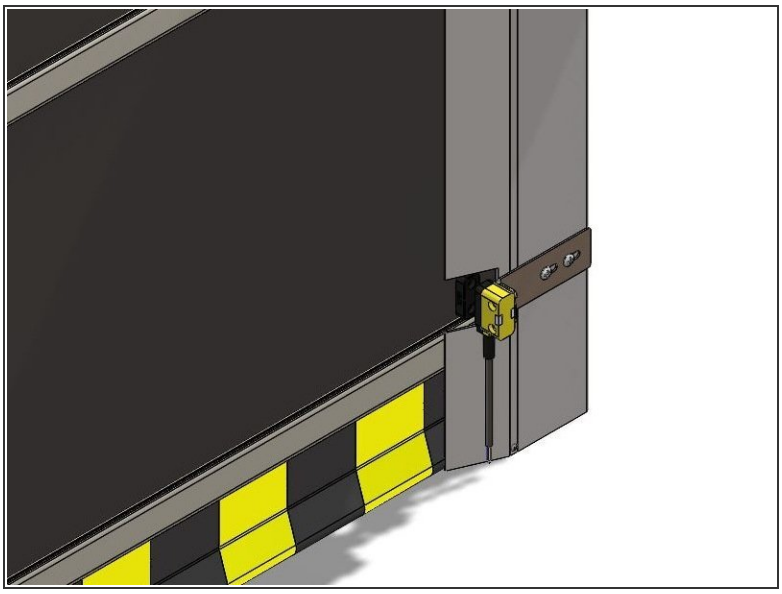




- Insert the 6-32 x 3/4" Screws Through the Sensor so that the Screw Heads sit Recessed in the Sensor Housing.
  - ⓘ See Exploded View
- Noting the Orientation of the Bracket, Place the Bracket onto the Screws and Secure with the 6-32 Nylon Lock Nuts.

Step 25 — 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.

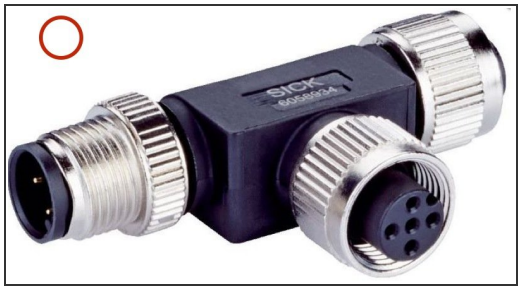
⚠ **Make Sure the Close-Limit is set Appropriately BEFORE Mounting the Sensors.**

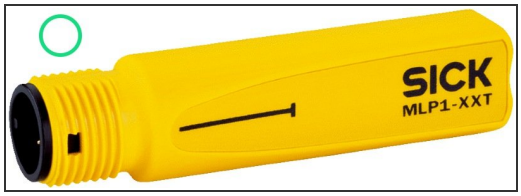
- Make a cutout in the vertical track weather seal so that you can see the RFID tag while the door is closed. Make the cutout slightly larger than the RFID tag.
- Using the #14 x 1/2" Sheet Metal Screws, Mount the Sensor and Bracket Assembly at a Height that Aligns the Sensor with the RFID Tag.

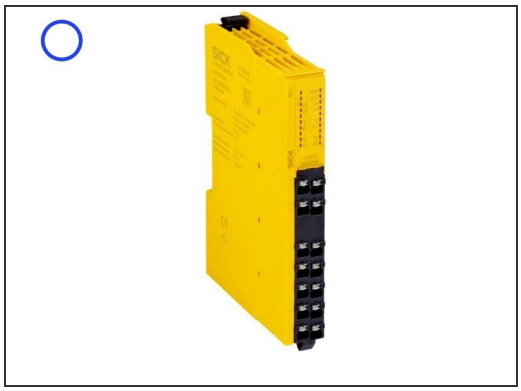
  ⓘ It is Best to Drill Small Pilot-Holes First.

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

Step 26 — Wiring Components

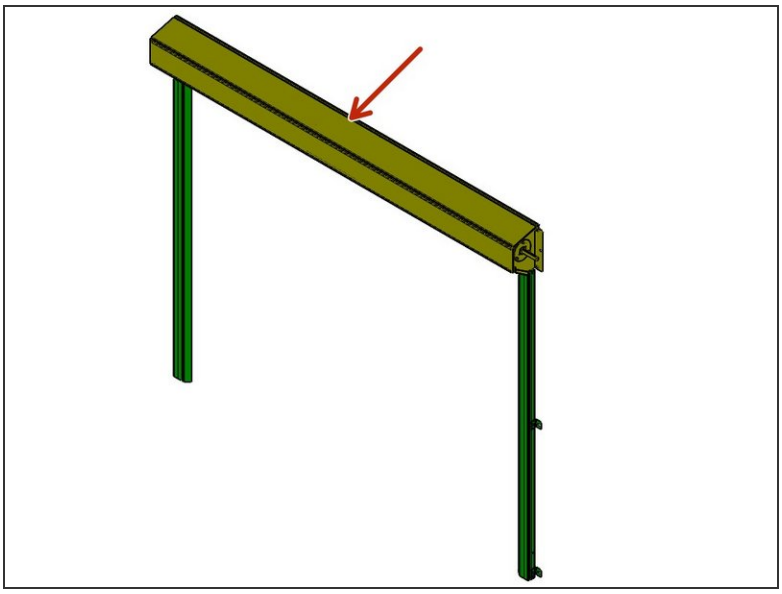


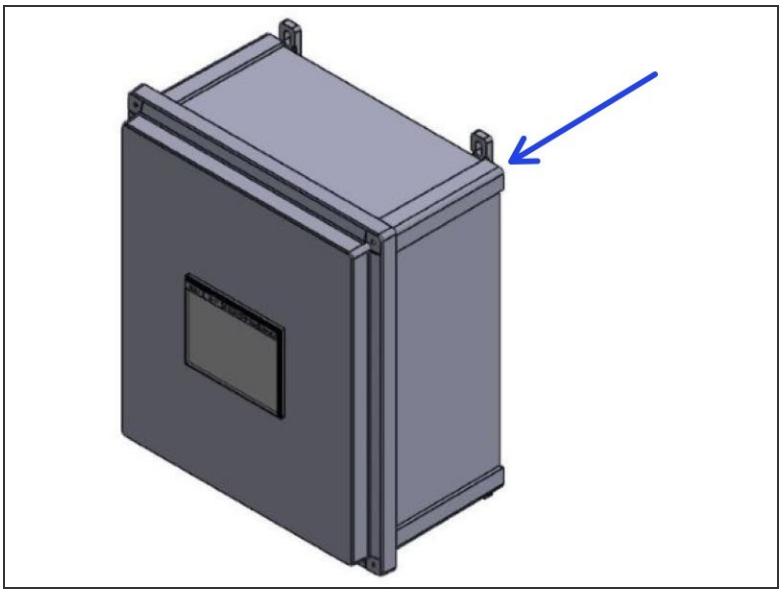




- (2) T-Junctions
  - Each T-Junction contains (1) Male 5-Pin Connection, (1) Female 5-Pin Connection, and (1) Female 8-Pin Connection Point.
- (1) 5-Pin End Connector MLP1-XXT
- (1) Relay
- (2) Dual 8-Pin Connector Cables
- (2) Dual 5-Pin Connector Cables
- (1) 5-Pin to 4-Wire Cable

Step 27 — Cable Routing

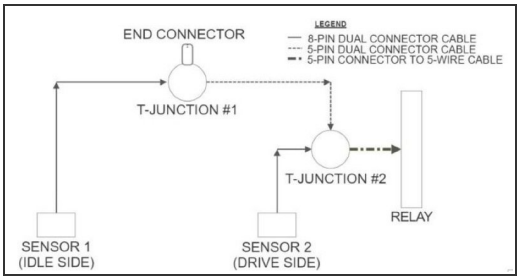


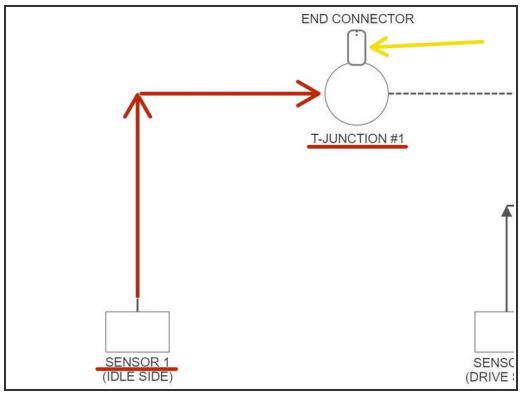


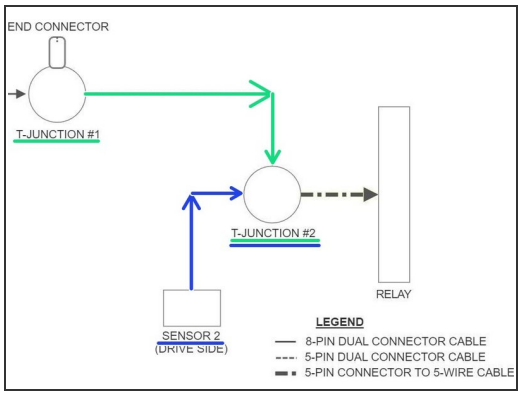
- It is Best to Locate T-Junction #1 Somewhere between Sensor 1 and Sensor 2.
  - A Good Spot is above the Header
- It is Best to Locate T-Junction #2, as well as the Relay, Inside of the Control Panel.

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

Step 28 — Wiring Schematic Part 1



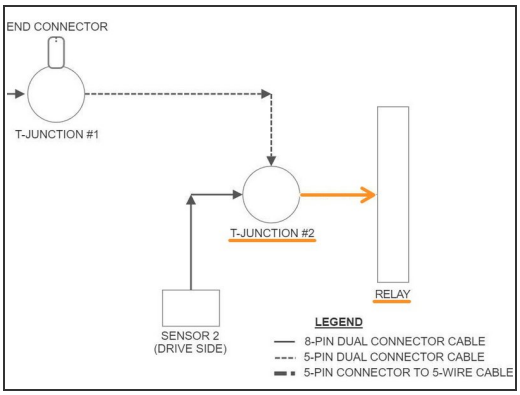


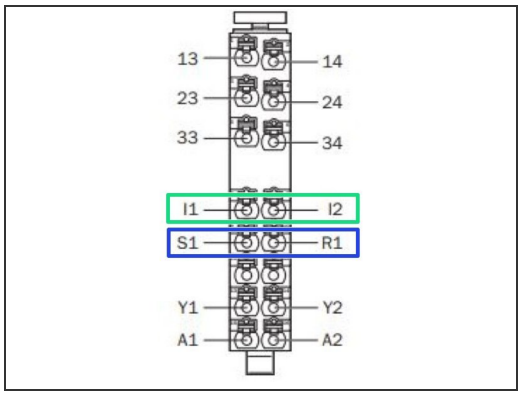


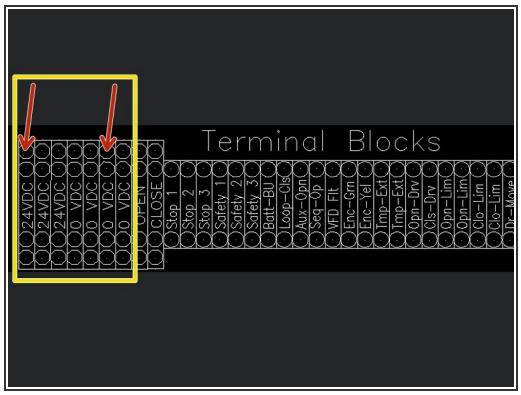
ⓘ All Connections between Sensors, T-Junctions, and End-Connectors are Screw Connections. There will be only 4 Wired Connections. Two at the Relay, and Two at the Terminal Block within the Goff's Control Panel.

- 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 29 — 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 30 — 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

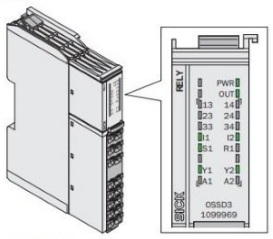


Figure 2: LEDs

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.