



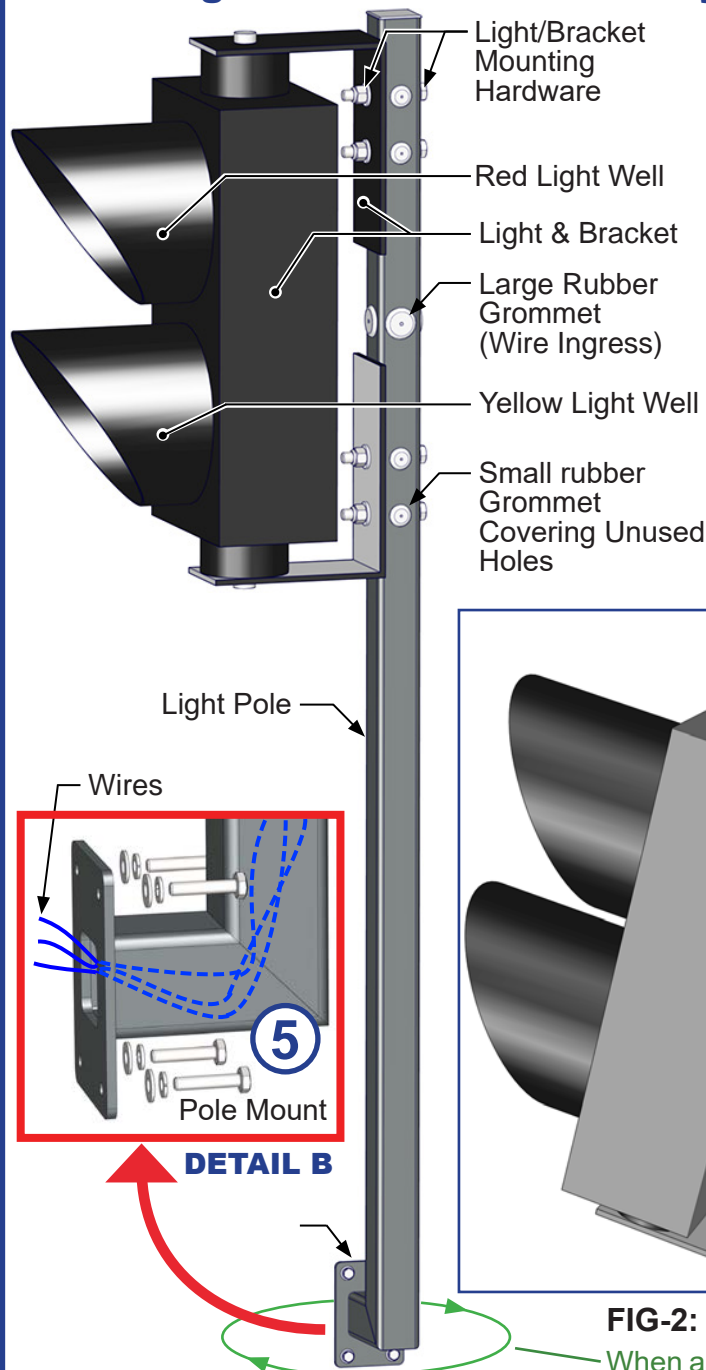
# Technical Instructions

## StrongArm M30 and M50: Installing a Second Traffic Light

These instructions are for adding a second traffic light to the StrongArm M30 or M50 operator. The traffic light may be mounted in four different locations on the StrongArm M30 or M50 operator; two positions on the Pivot Post and two on the Catch Post.

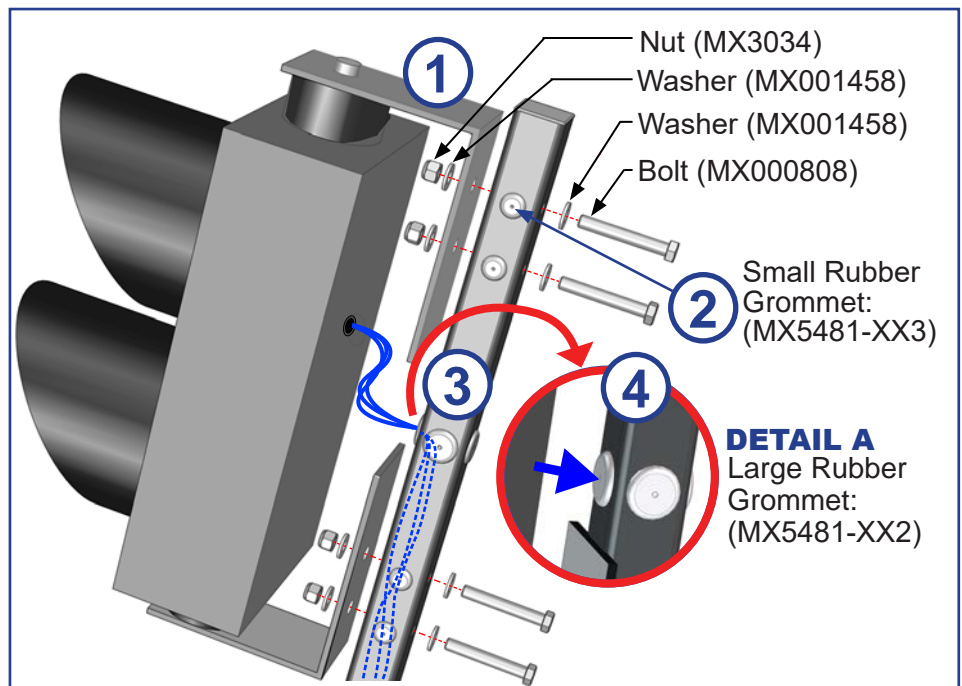
The traffic light may be assembled in one of four different orientations to accommodate installation to any of the mounting locations on the operator. Unused hardware holes feature rubber grommets to prevent ingress of water and other elements. A fully assembled traffic light is shown in **Fig-1**.

### Traffic Light Mechanical Assembly:



**FIG-1: Traffic Light - Assembled**

1. Determine the desired orientation and location of the 2nd light, and assemble the light-bracket assembly to the light pole with hardware from the kit as shown in **Fig-2**.
2. Cover unused holes in pole with the small rubber grommets (MX5481-xx3) as shown in **Fig-2**.
3. Install the four large rubber grommets (MX5481-xx2) as shown in **Fig-2**.
4. Punch a small hole in the large rubber grommet just behind the light-bracket assembly, bundle the wires securely, and then push them through the grommet hole (**Detail A**) and into the light pole.
5. Feed the wires downward into the pole until they can be pulled from the pole mount end (**Detail B**).



**FIG-2: Traffic Light - Mechanical Assembly**

When assembling light to the pole, ensure the mount is in the correct orientation for your desired setup.



# Technical Instructions



## WARNING

Turn OFF electrical power to the operator before performing any of the following instructions!  
Follow all site and local lockout procedures!

### Pivot Post Mechanical Install:

1. Select one of two mounting locations on the Pivot Post per Fig-3.
2. Remove the chassis cover on the side of the chosen mounting location to access interior.
3. Use a 7/16-inch socket wrench to unfasten the four bolts and remove the hardware to unfasten the plate. **Retain all the washers and the four kep nuts for mounting the light post.**
4. Feed traffic light wires exiting from the traffic light post mount and thread through the hole and into the Pivot Post interior.
5. Retrieve the following hardware and install the light post as shown in Fig-5.
  - x4 bolts (MX4170) from light kit.
  - x4 lock washers (MX000207) from light kit.
  - x8 washers retained from Step 4.
  - x4 kep nuts retained from Step 4.

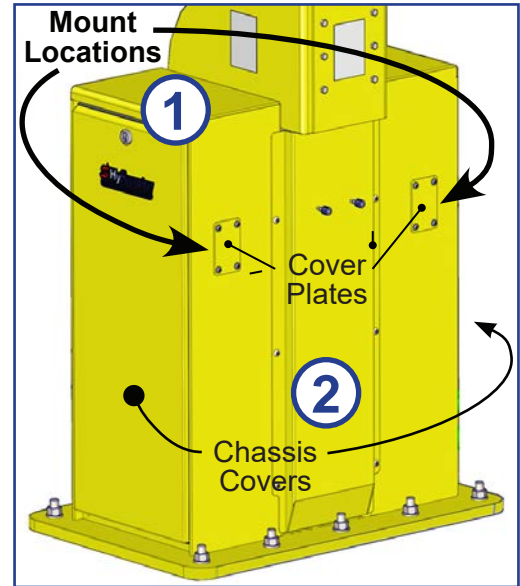


FIG-3: Pivot Post - Mount Locations

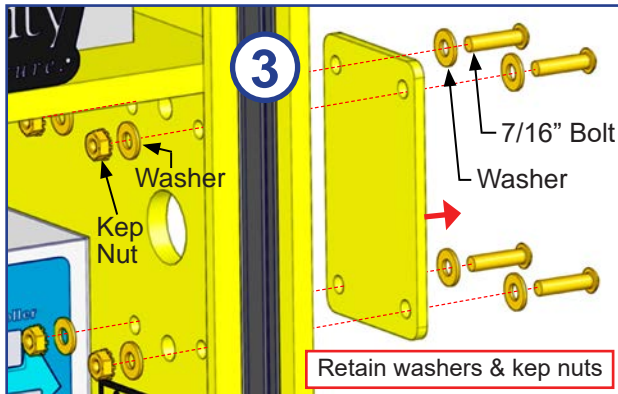


FIG-4: Pivot Post - Remove Cover Plate

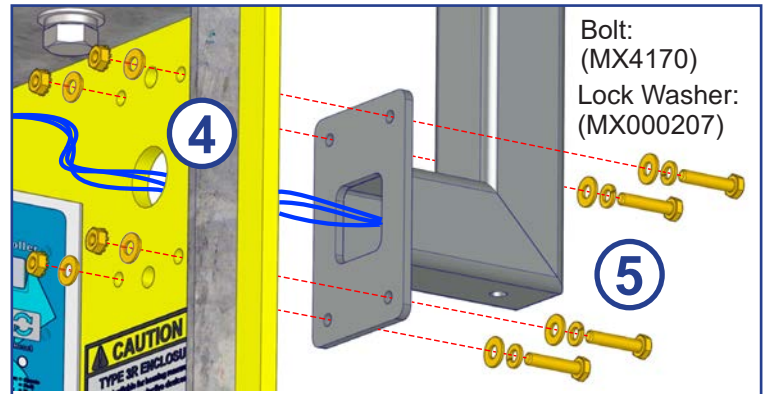


FIG-5: Pivot Post - Install Light Post

### NOTICE

After mechanical install, go to pg. 4 for wiring instructions.

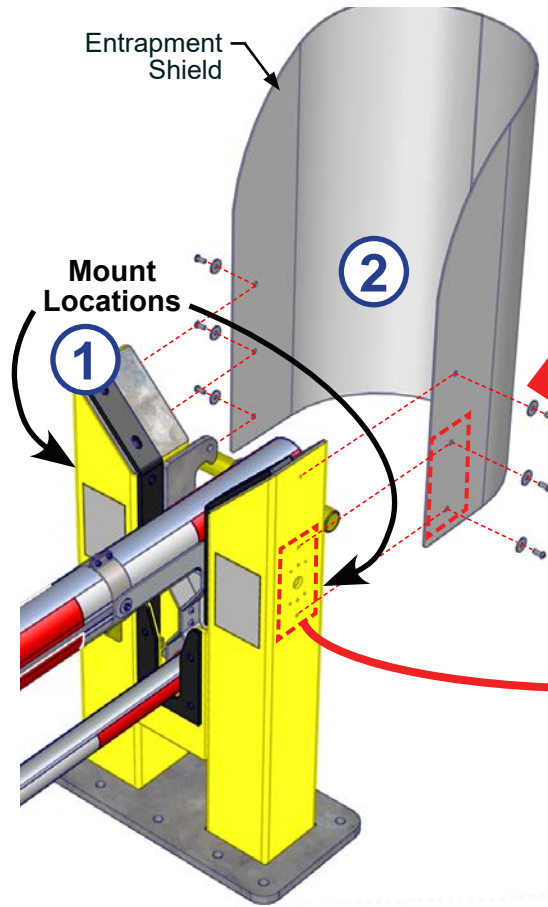
### IMPORTANT DISCLAIMER!

All gate installations must comply with UL325 and ASTM F2200 safety standards in addition to any local area codes and standards. Site, gate hardware, usage class, and other conditions will dictate the use of additional safety designs and components. All safety related warnings and notices in this document, and any diagrams, drawings, photographs and similar content should not be considered guidance on how to make your particular site safe and code compliant. It is the responsibility of the gate system designer, installer and owner to assess appropriate safety design considerations, correct implementation and ongoing maintenance of any system.

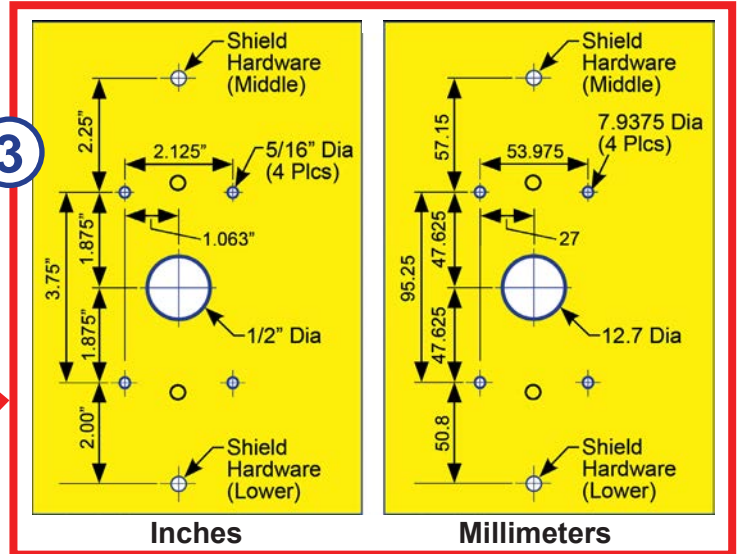


# Technical Instructions

## Catch Post Mechanical Install:



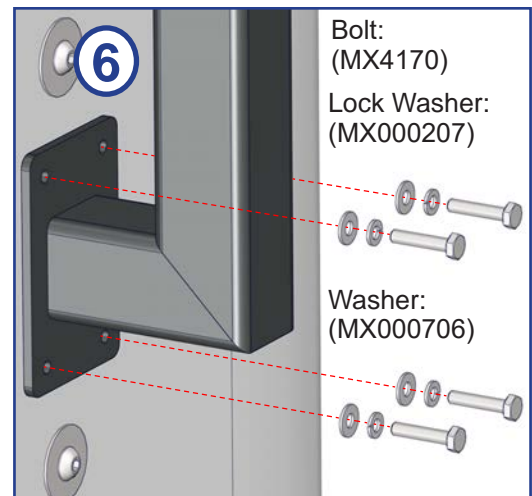
1. Select one of two mounting locations on Catch Post (**Fig-6**).
2. Remove the six bolts and washers affixing the Entrapment Shield (**Fig-6**).
3. Drill holes in the Entrapment Shield to match hole pattern in the Catch Post for mounting the light pole (**Fig-7**).
4. After drilling the holes into the Entrapment Shield, re-install it to the Catch Post (**Fig-6**).



**FIG-7: Mounting Hole Dimensions**

## FIG-6: Catch Post - Remove Shield

5. Feed the wires exiting from the traffic light post mount, and thread through 1/2" center hole and into the Catch Post interior.
6. Retrieve the following hardware and install the post as shown (**Fig-8**). Note that holes are tapped, so nuts are not needed:
  - x4 bolts (MX004170) from kit.
  - x4 lock washers (MX000207) from kit.
  - x4 Washers (MX000706) from kit.



**FIG-8: Catch Post - Install Light Post**

### NOTICE

After mechanical install, go to pg. 4 for wiring instructions.

**Contact Information:** Visit <https://support.hysecurity.com/hc/en-us> for installation manuals, replacement part instructions, part diagrams and more. For the name of a qualified distributor near you, call HySecurity at 800-321-9947. \*Before contacting your distributor or HySecurity Technical Support, obtain the serial number of your operator.



# Technical Instructions

## Wiring Traffic Lights to Smart Touch Controller (STC):

1. Route new traffic light wires to the Smart Touch Controller (STC), using conduit between posts if necessary (Fig-9).
2. Unplug existing red/white/black traffic light wires from the red/white/black wires coming from the STC and power supply terminals. See Fig-10.
3. Retrieve wire harness from the kit (P/N MX002646) and plug black, white, and red wires from STC & Power Terminals into one set of three connectors of harness, ensuring wire colors are matched and properly mating male to female. See Fig-10.
4. Plug red/black/white wires from one traffic light into red/black/white wires of harness, then plug wires from other traffic light into the other set of three wires of the harness, ensuring wire colors are matched and properly mating male to female. See Fig-10.
5. Neatly arrange wires, making sure all are securely fastened.
6. Turn the main power to the operator ON and cycle the operator open and close to test that the traffic lights are working properly.

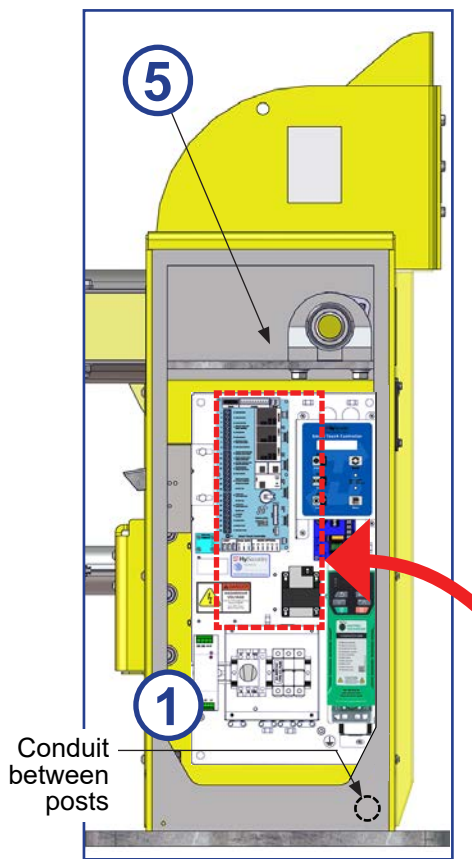


FIG-9: STC & Power Supply Locations

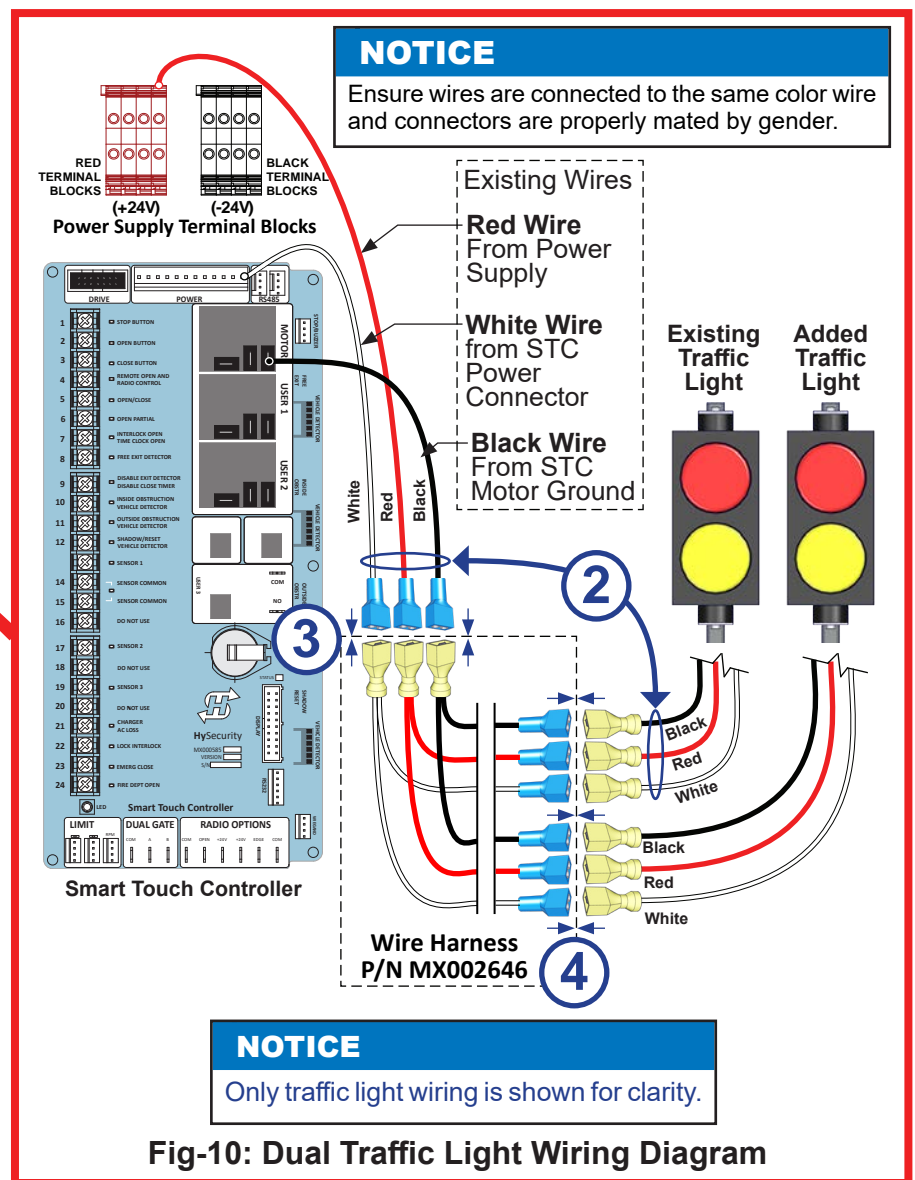


Fig-10: Dual Traffic Light Wiring Diagram

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