

ShopBot Status Light Installation and Usage

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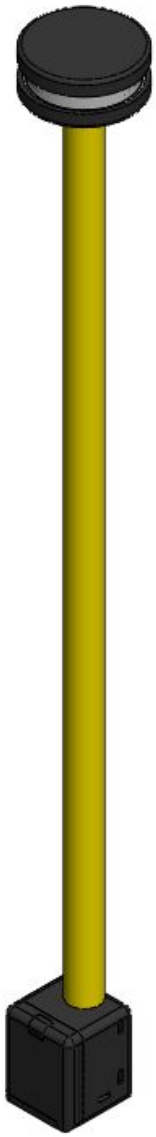
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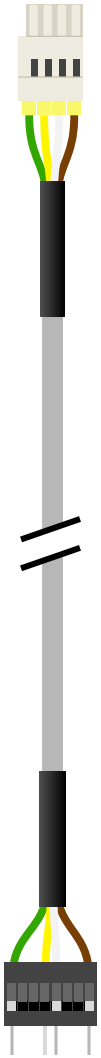
2

Parts List

These parts are included in all status light kits:



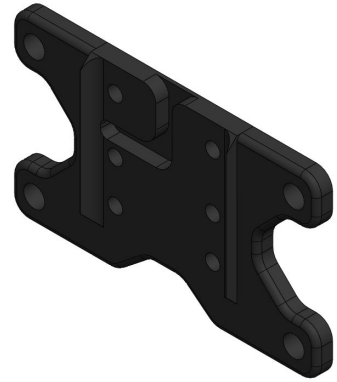
006399 Status Light



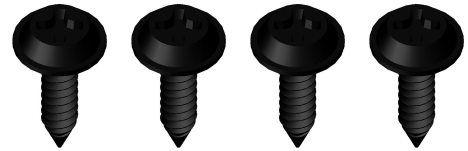
007177 Status Light Cable



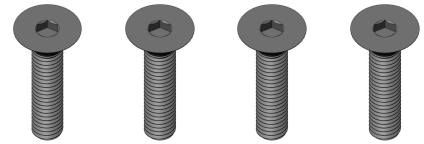
Ribbon Cable



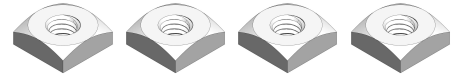
007175 Status Light Mounting Plate



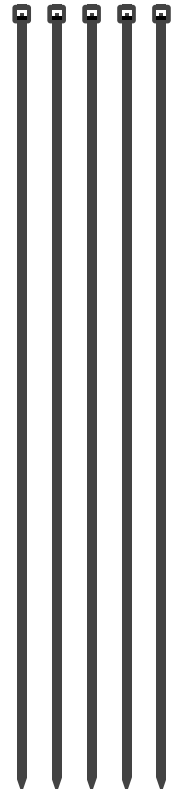
4x 006129 #10 Screws



4x 003533 10-32 Screws



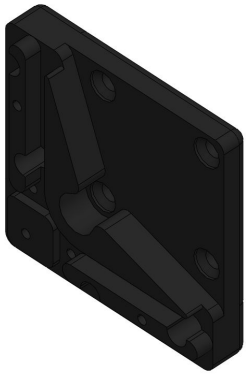
4x 005182 10-32 Square Nuts



5x 003108 Cable Ties

3 Parts List

This part is included with the Desktop machine light kit:

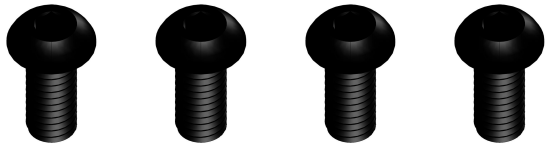


007176 Invision Mounting Plate

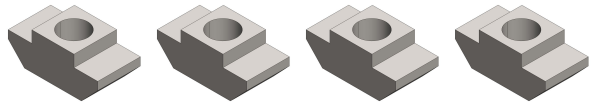
These parts are included with the Gantry machine light kit:



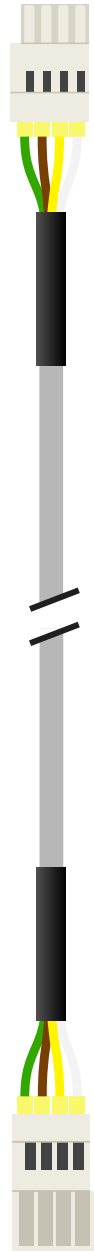
4x 003062 Cable Binder Blocks



4x 002033 5/16-18 Screws



4x 002240 5/16-18 T-nuts

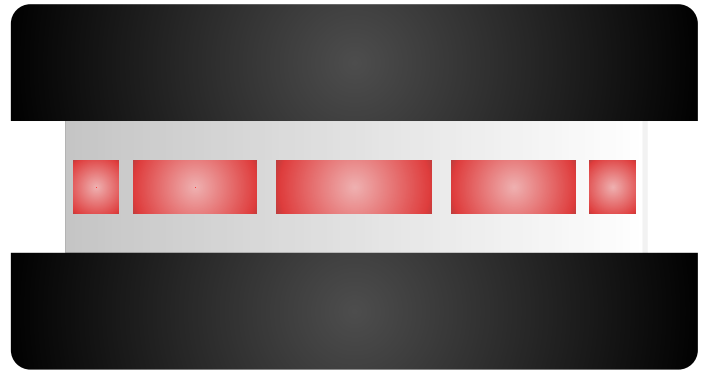


007178 Status Light Cable Gantry

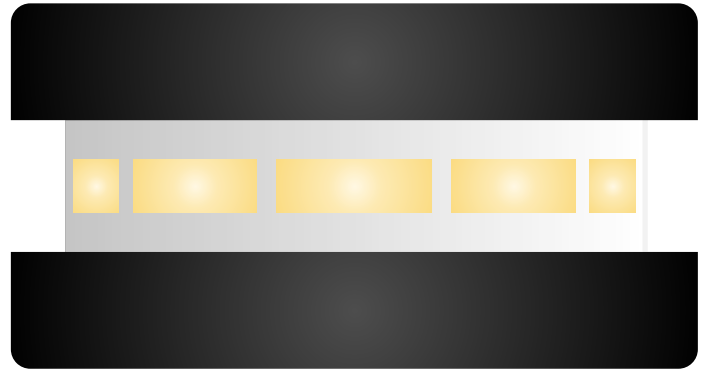
4

The ShopBot Status Light is an accessory purpose-built for our machines to provide a clearly visible indicator of the machine's current status. The light has three different modes:

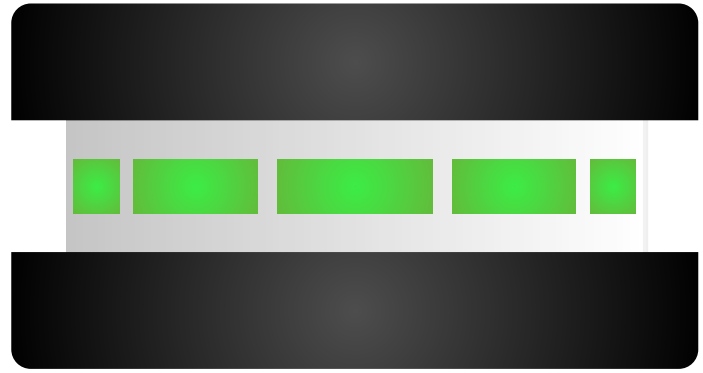
Red (Solid): Machine Idle



Yellow (Blinking): Machine Moving



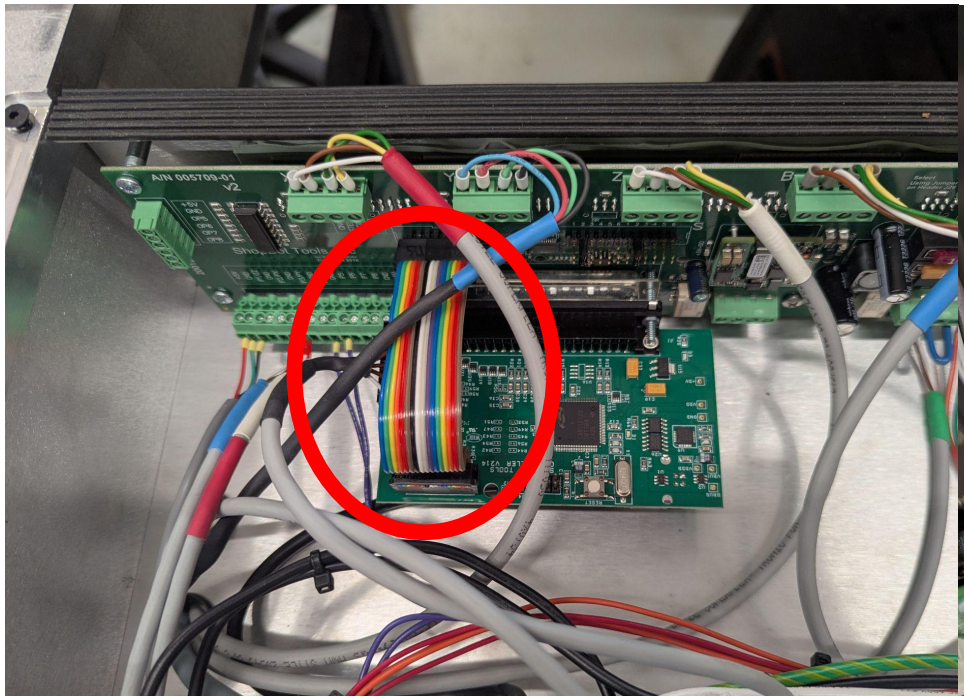
Green (Spinning): Machine Moving, Spindle Running



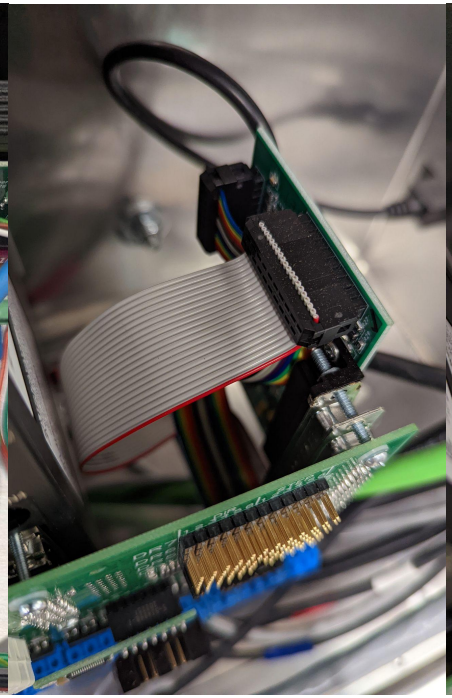
5 Ribbon Cable Installation

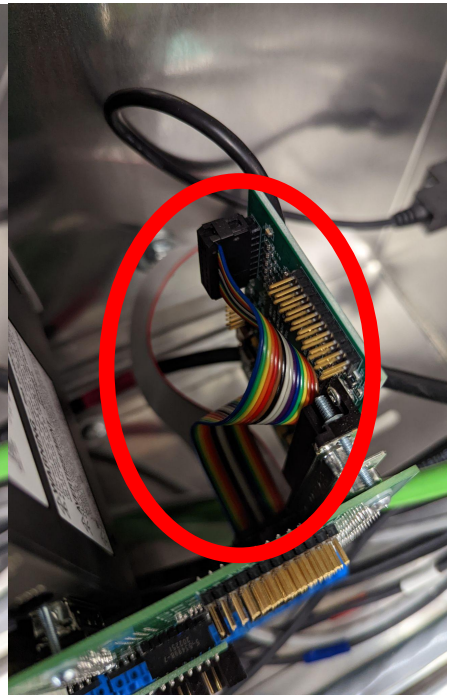
Begin by swapping out the ribbon cable in the machine's control box that runs between the control card and the interface board. Power down the machine and wait for a few seconds, then open up the control box and locate the multicolored ribbon cable. This will be in a different location depending on the type of machine. On PRS Alpha machines you will need to unplug the grey ribbon cable to access the multicolored one.

Desktop Machines



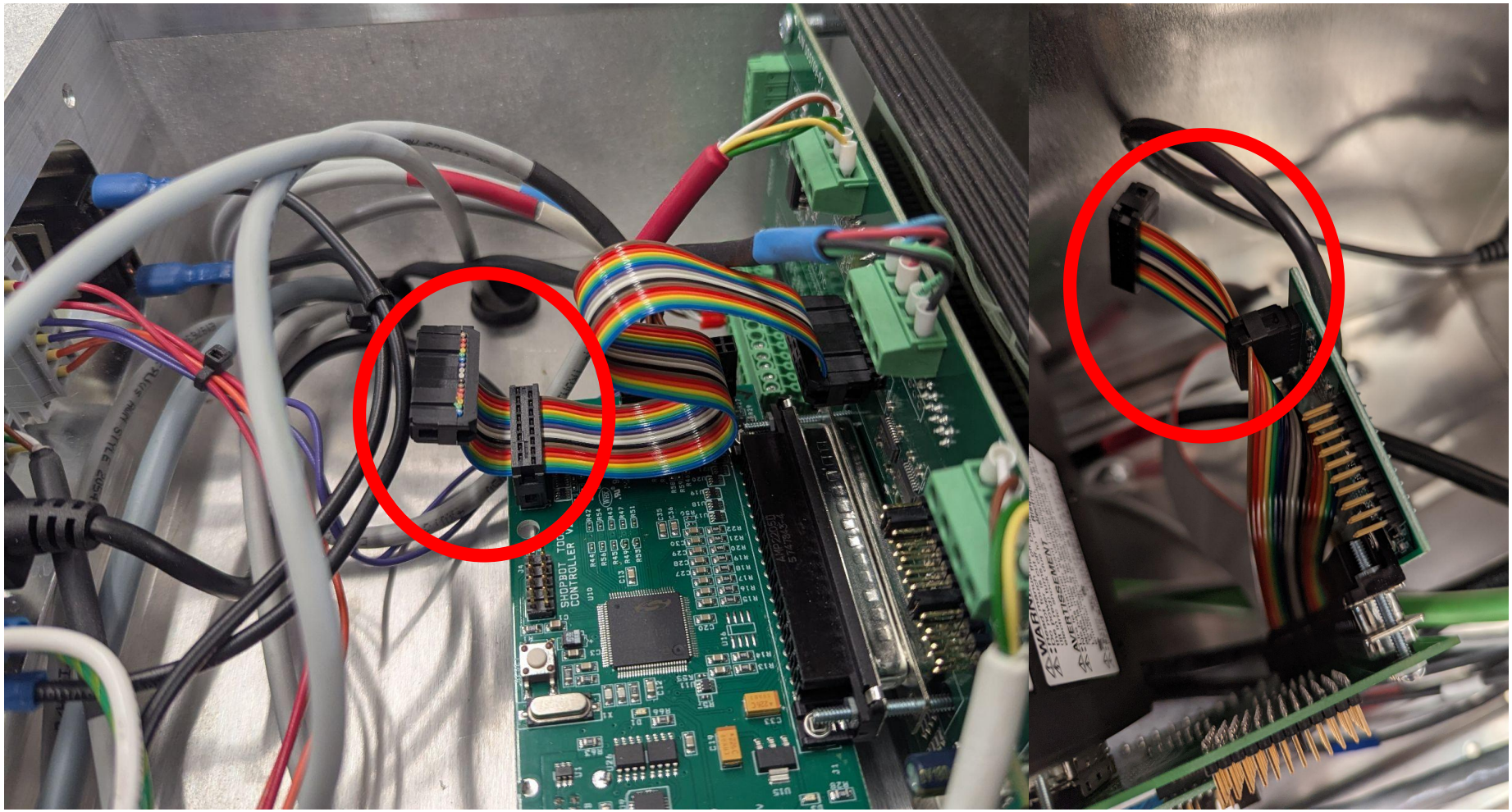
PRS Alpha Gantry Machines





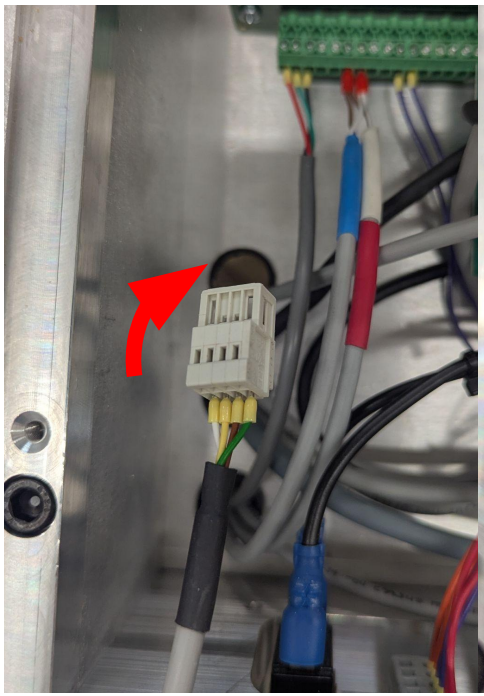
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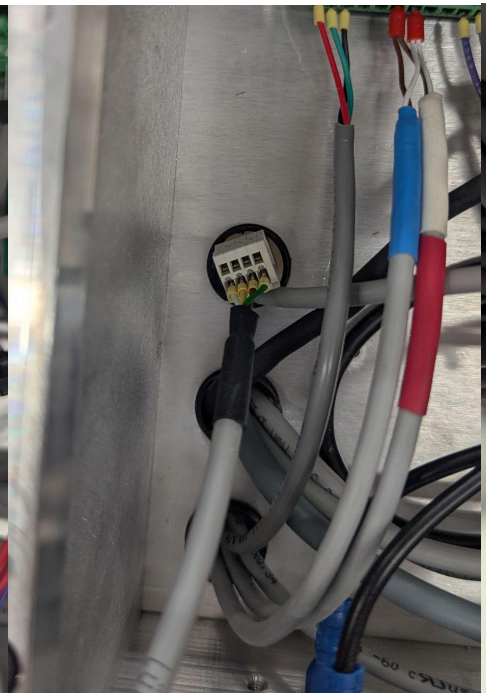
Remember what orientation the cable is plugged in and carefully remove it. Replace it with the included ribbon cable. The end with the additional connector should be plugged into the controller card with the connector hanging off the end. On PRS Alpha machines, remember to plug the grey ribbon cable back in.



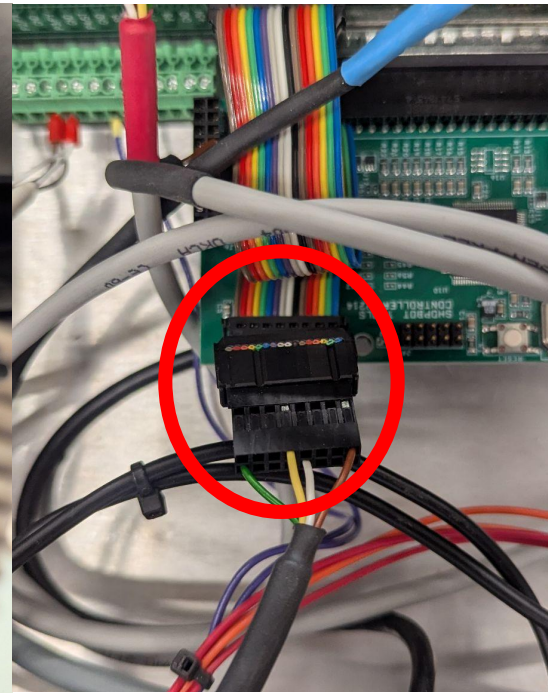
7 Cable Routing (Desktop)

Take the 10’ long cable and fit the Wago on one end through one of the grommets on the underside of the control box (going from inside the box to outside). Now plug the black connector on the other end into the extra connector on the ribbon cable you just installed. Thread the remaining length of cable out through the grommet. You can now close the control box.



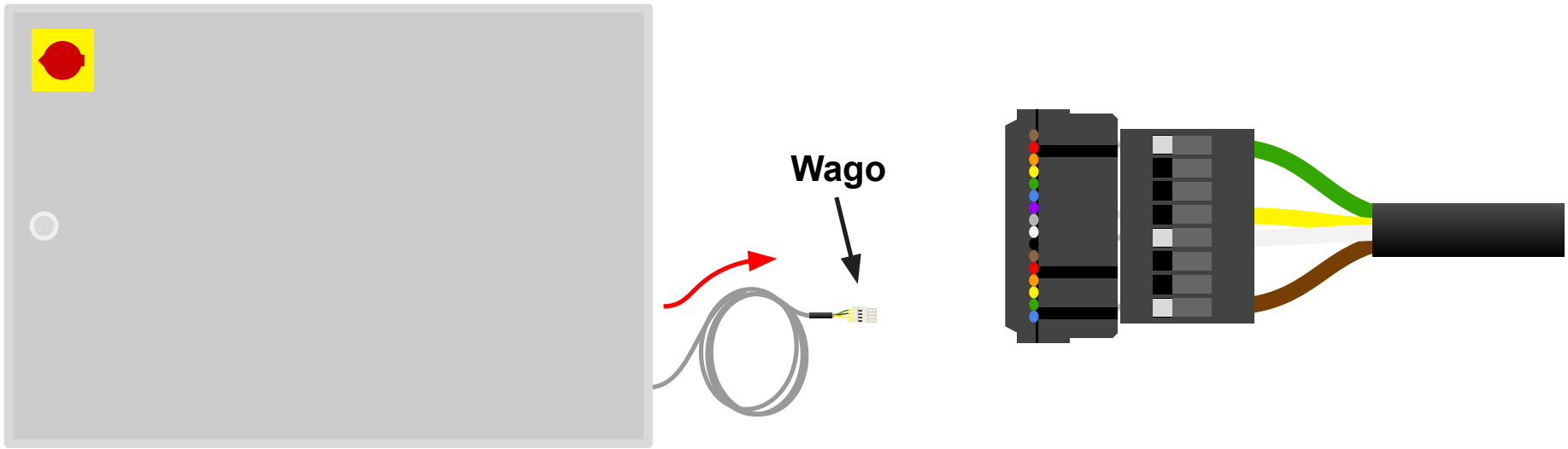






8 Cable Routing (Gantry)

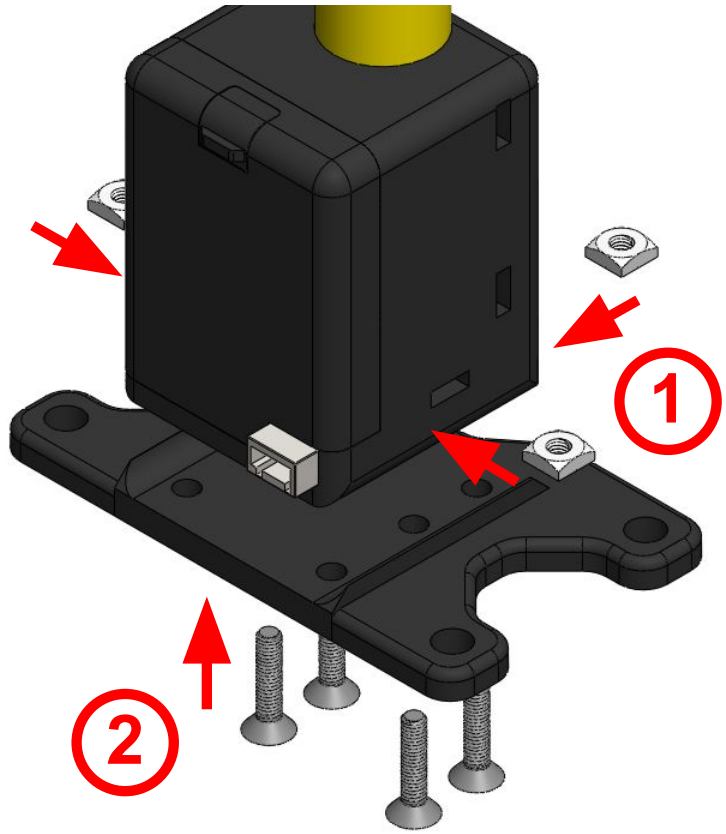
Take the shorter 10’ cable and thread the end with the white Wago through one of the open cable grommets on the right side of the control box (running it from inside the box to outside). You can coil up the excess cable and leave it in the control box, or thread most of it through the grommet and coil it up outside*. Now plug the black connector inside of the control box into the ribbon cable. Note that it can only be plugged in one way.



***If your machine has a larger table bed than 96’x48’, you may also need the additional length from this cable to reach the status light.**

9 Freestanding Mount (Desktop/Gantry)

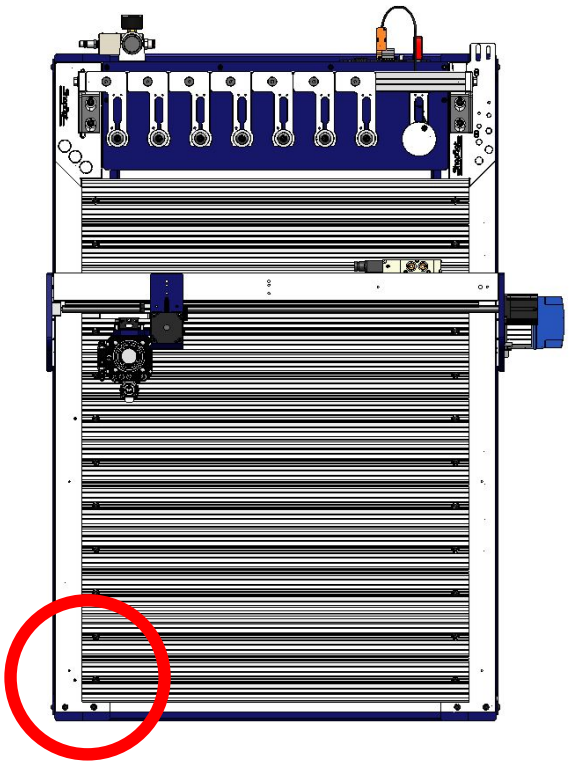
Attach the mounting plate to the bottom of the status light as shown, using the included square nuts and flat-head screws. Insert the square nuts first, making sure they don't slide around when you insert the screws.

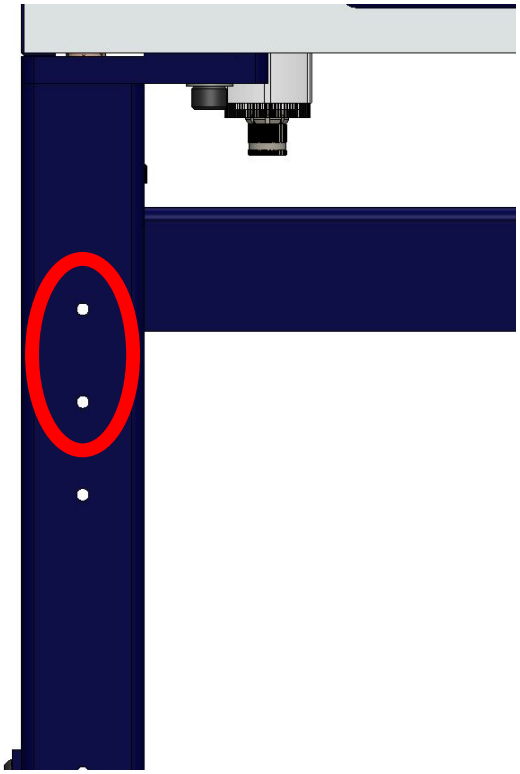


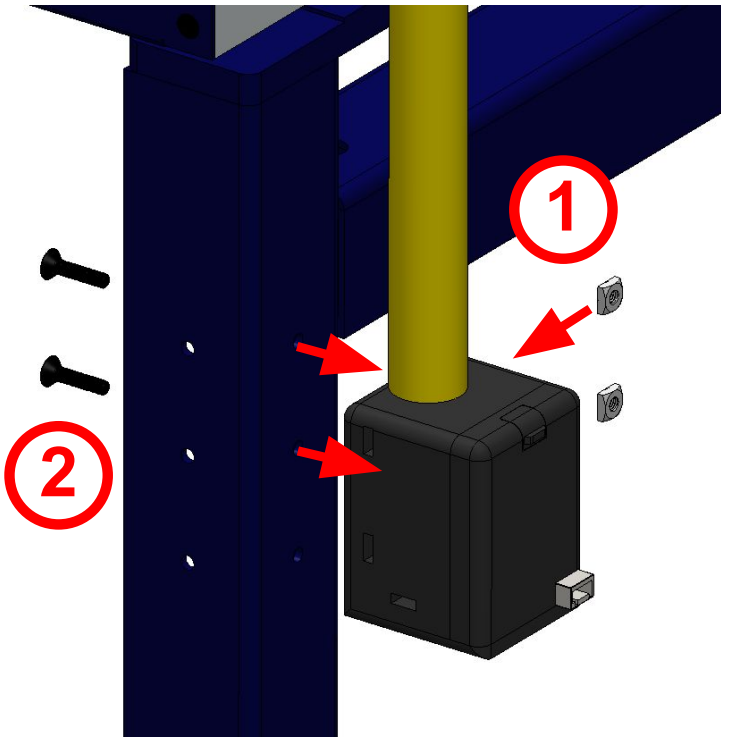
You can either leave the light free-standing, or use the included pan-head wood screws to secure it to a wooden table or something similar. Plug the cable coming out of the control box into the light's base.

10 Workstation Mount (Desktop)

If you have a ShopBot workstation for your desktop, you can mount the light to the front corner of the machine. Note that this is the only corner that has the clearance to mount the light. Use two of the included square nuts and flat-head screws to mount the light to the upper two holes on the indicated leg.

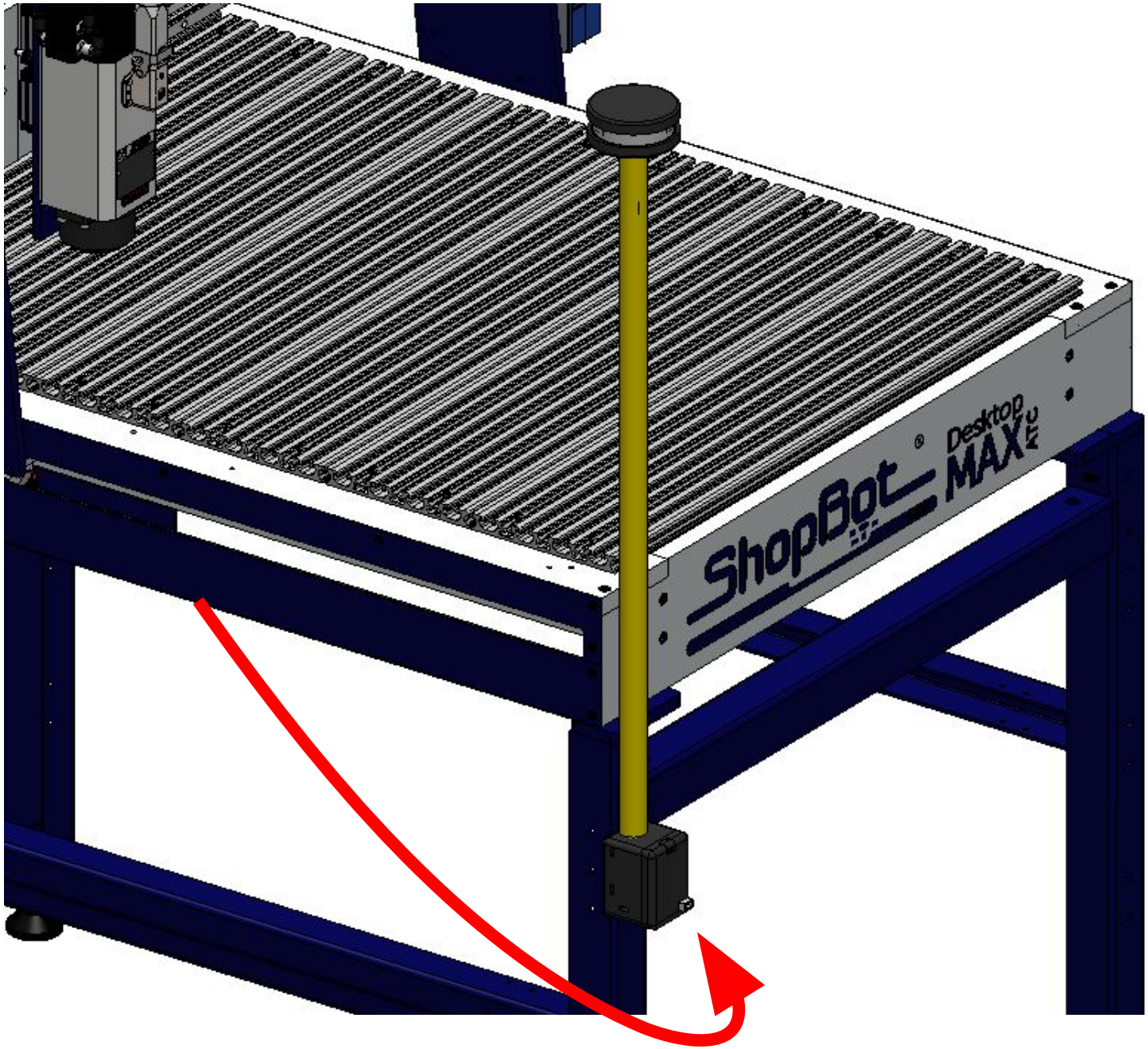






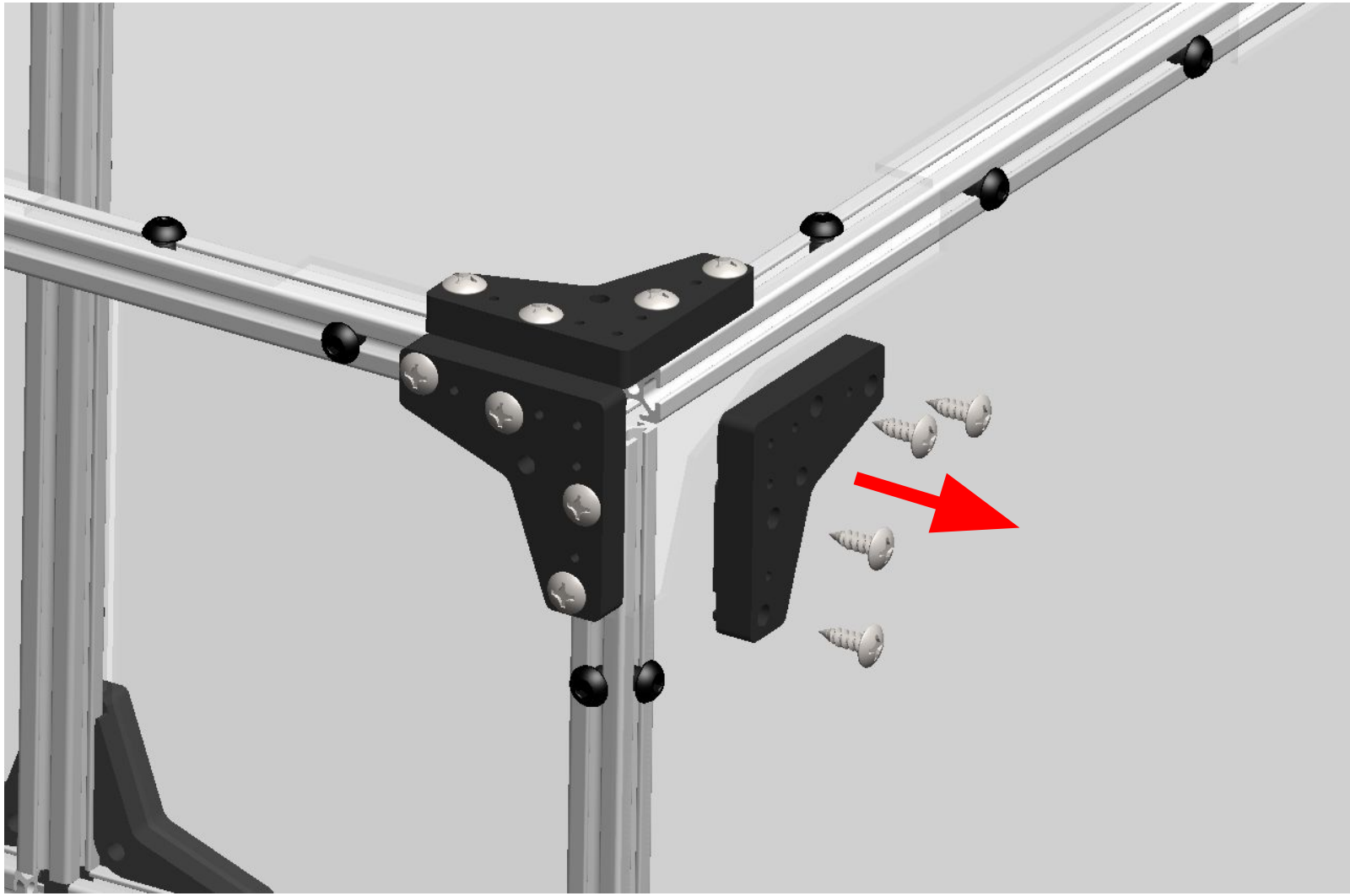
11

Rout the cable from the bottom of the control box over to the light and plug it in.



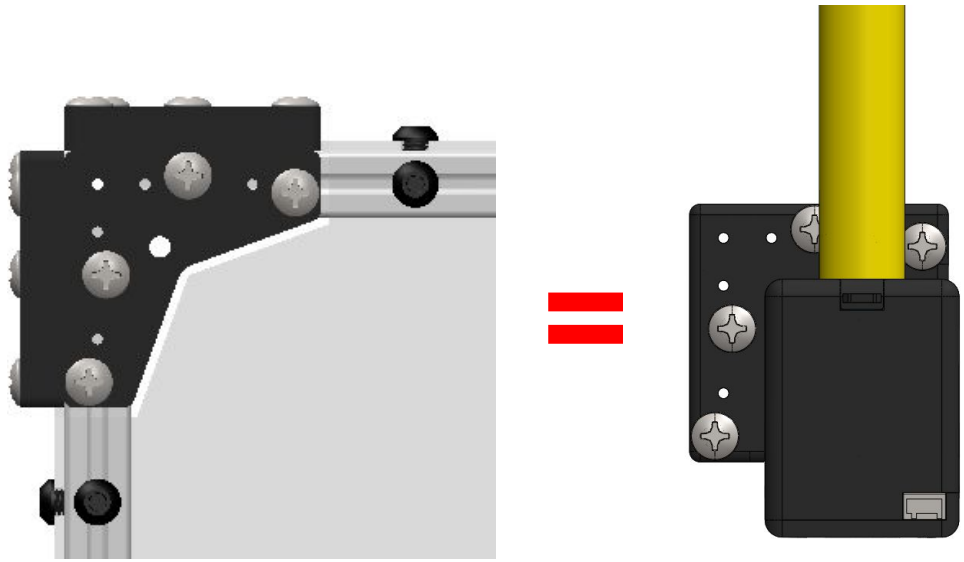
12 Invision Enclosure Mount (Desktop)

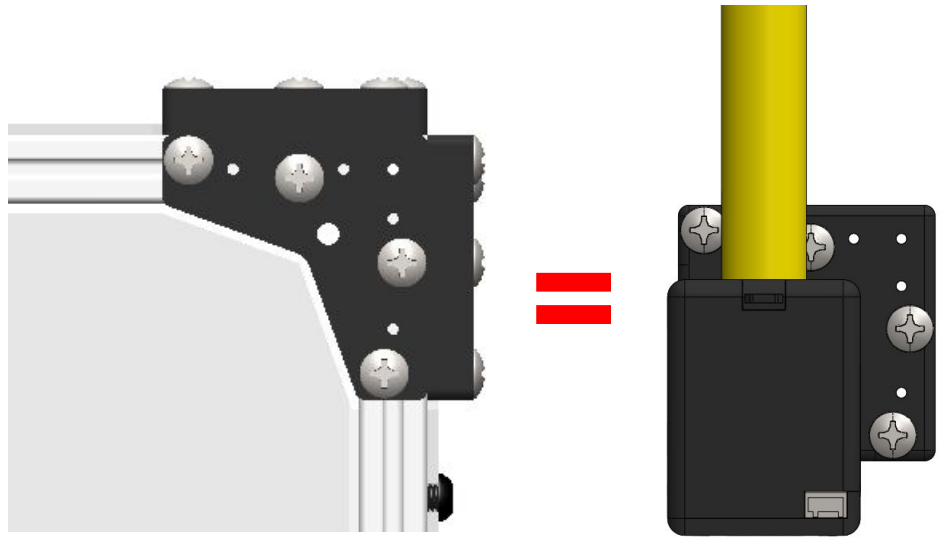
Decide which upper corner of the Invision Enclosure you want to mount the light to. Remove the corner bracket on the side you want to attach the light.



13

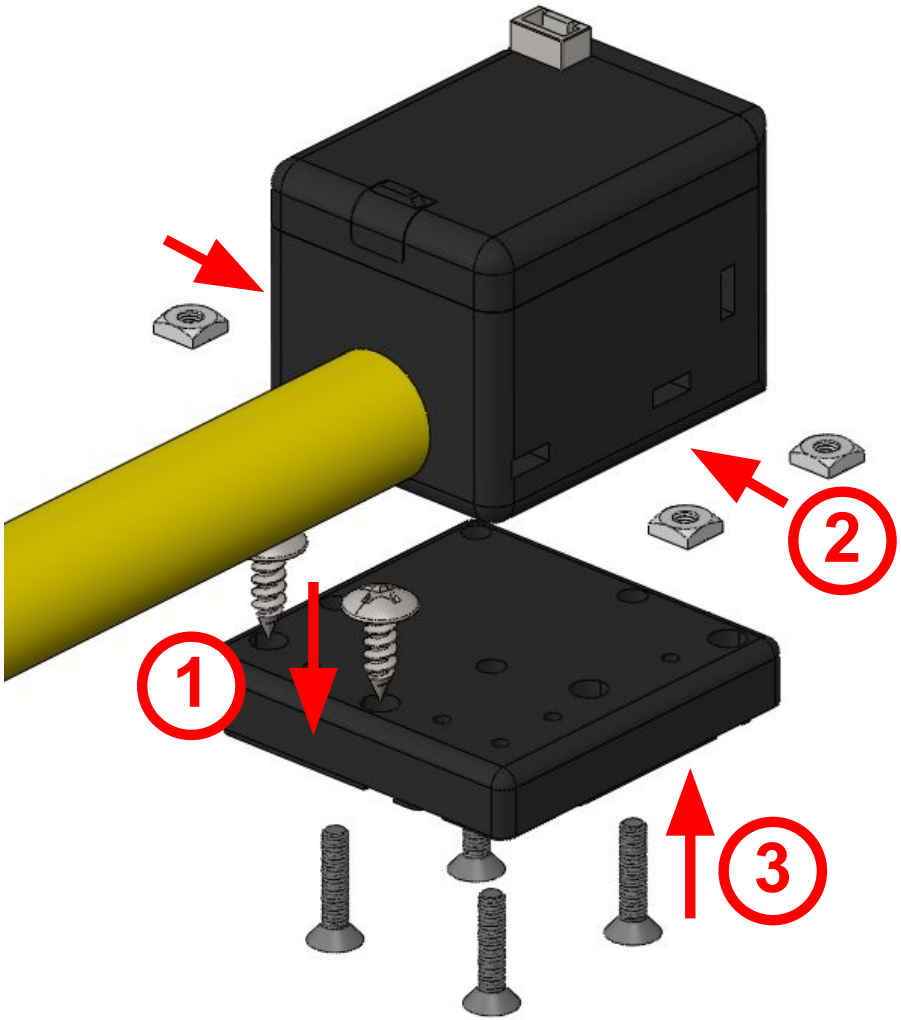
Determine which orientation you need to attach the mounting plate to the status light. This is based on which corner you plan to mount it on. Match the orientation of the plate to the part you removed.

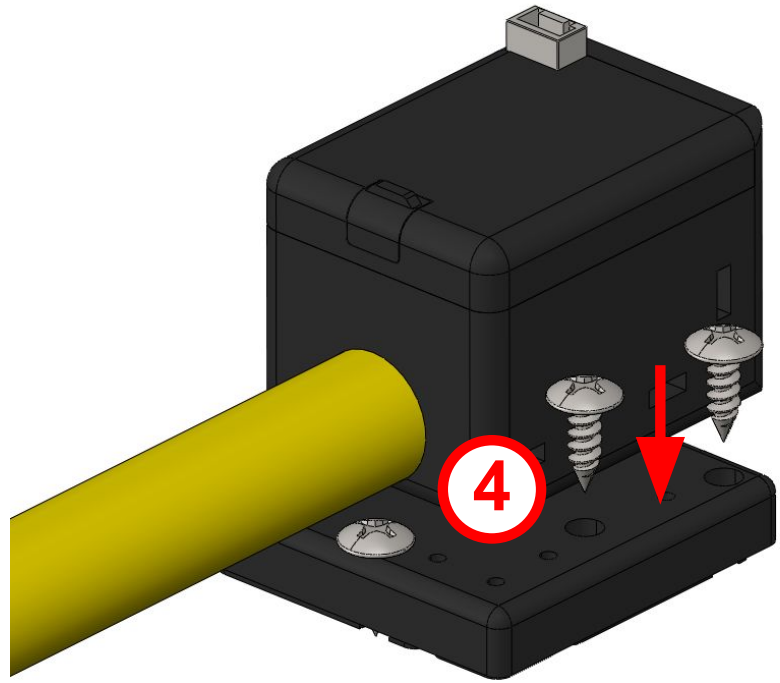




14

Attach the Invision mounting plate to the base of the light as shown. Fit two of the silver screws you just removed from the enclosure into the two holes that the yellow tube partially covers. Now slide the square nuts into the sides of the base and secure them up through the mounting plate with the included flat-head screws. Now fit the last two silver screws into place.





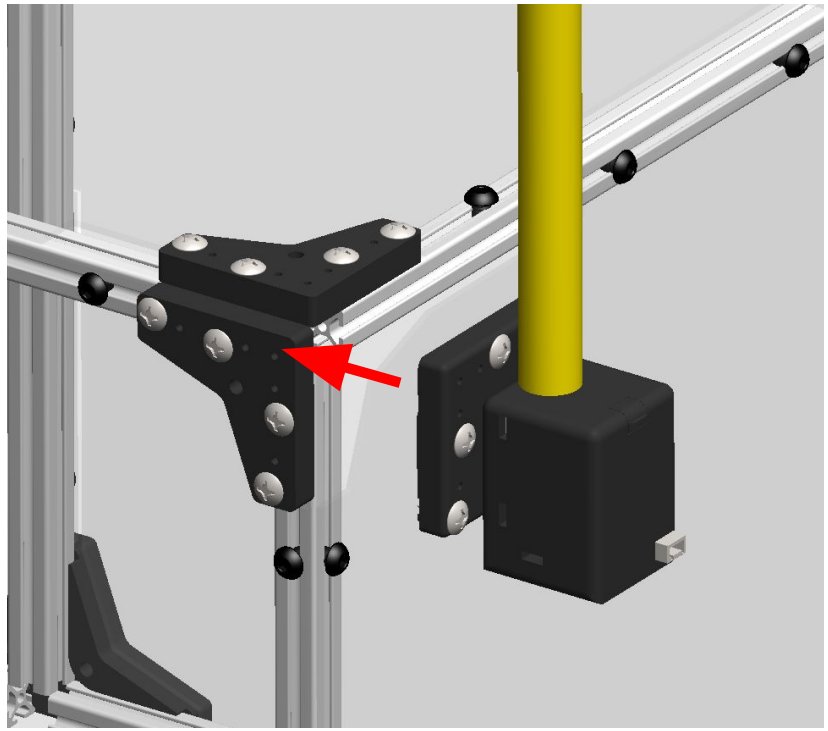
15

Before continuing, route the cable leaving the control box under the machine and over to the corner of the enclosure you will be mounting the light to. You will need to thread this cable out through the gap left by the old corner bracket and plug it into the status light's base before mounting it.

Fit the cable into the groove along the backside of the mounting bracket, then attach the light in the same way the old bracket was.

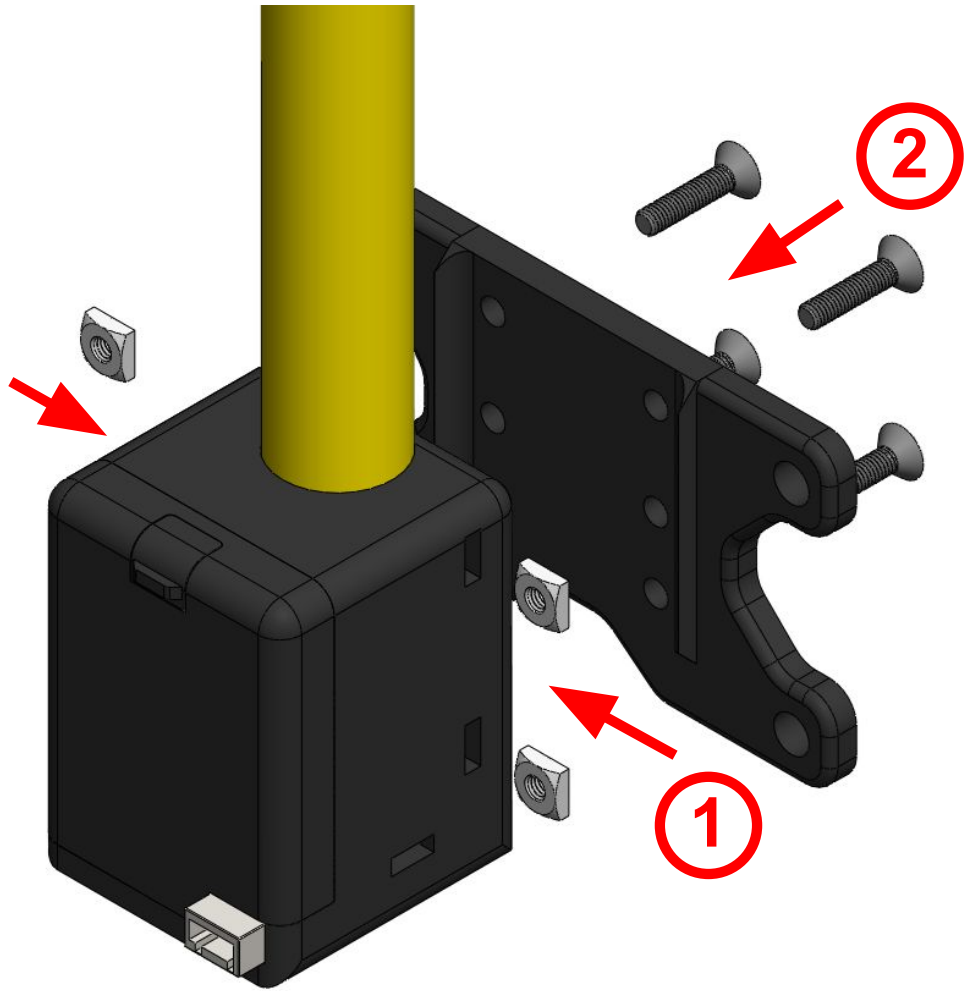






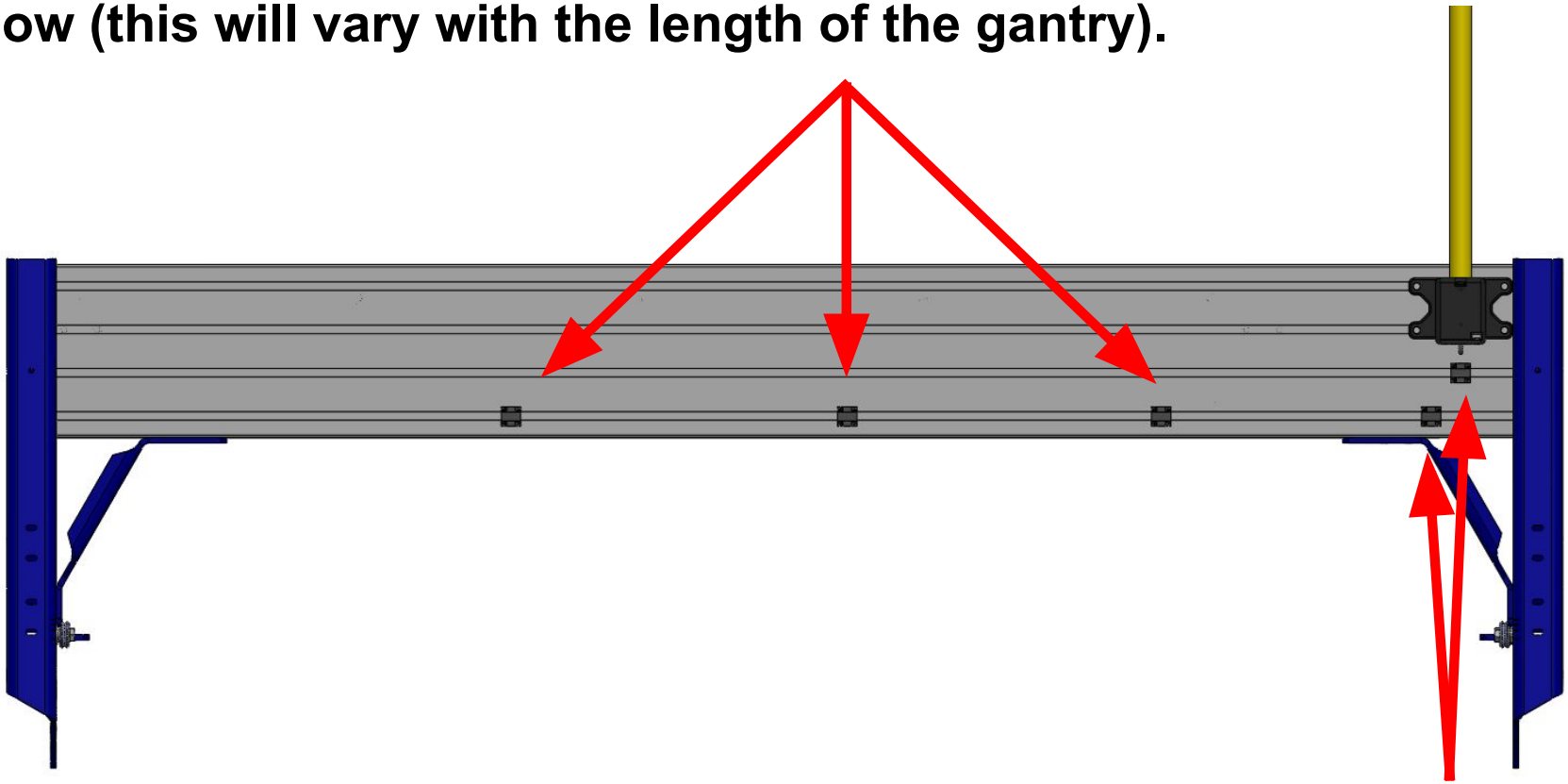
16 Gantry Mount (Gantry)

Attach the mounting plate to the back of the status light as shown, using the included square nuts and flat-head screws. Insert the square nuts first, making sure they don’t slide around when you insert the screws.



17

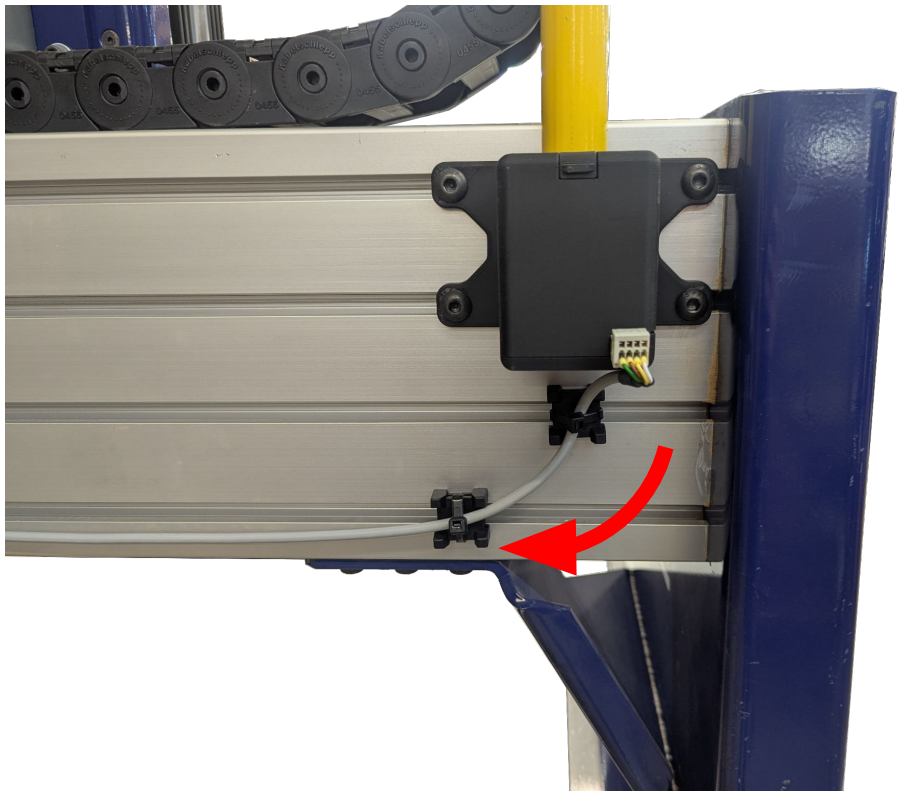
Use the 4 included button-head screws and T-nuts to mount the light to the back of the gantry. Use the upper two slots, and mount it on the far end of the gantry (opposite from the control box/x-axis echain). Fit the cable binder blocks into the gantry in roughly the positions shown below (this will vary with the length of the gantry).

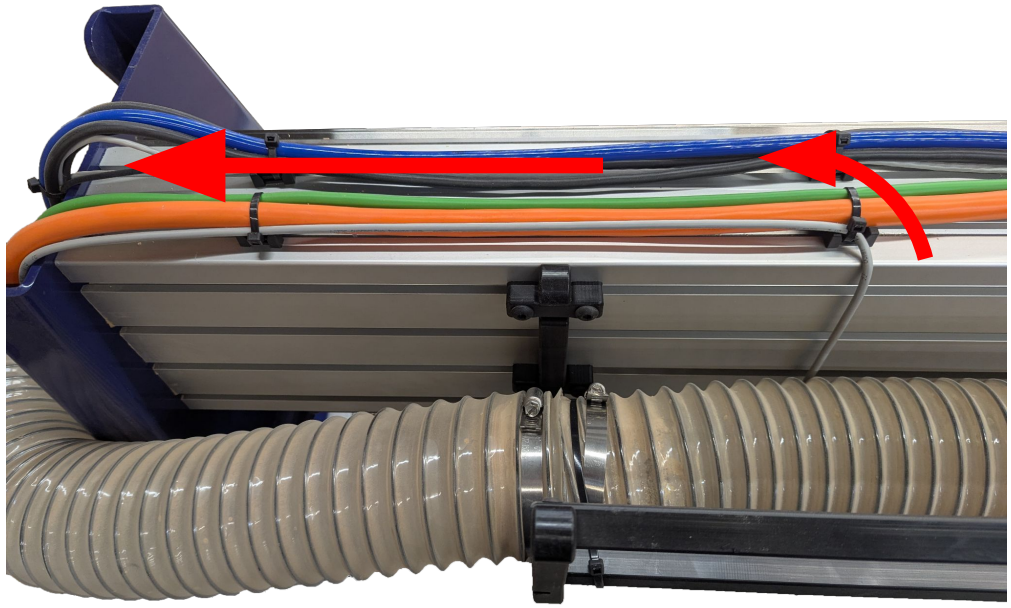


Ensure one is in the slot directly beneath the light and another is right below that, slightly offset towards the center of the gantry.

18

Plug the longer 35’ cable into the status light. Bend it around to the underside of the light and secure it to the binder block directly underneath with a cable tie. Secure it to the other blocks along the back of the gantry using the remaining cable ties.

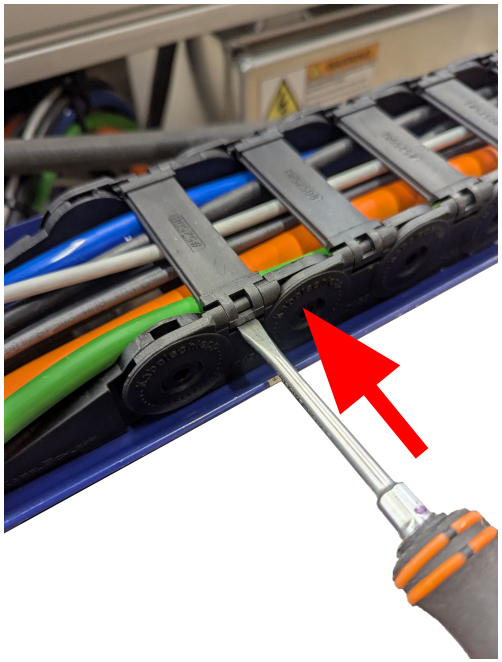


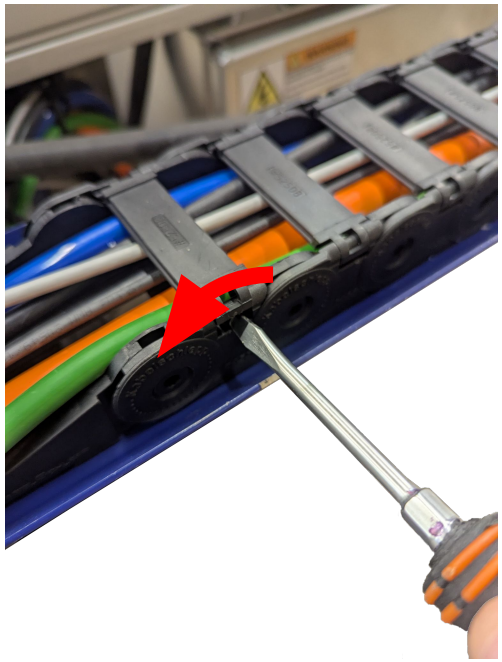


When it gets towards the end of the gantry, you can run the cable up to the top and bunch it up with the rest of the cables going back to the control box.

19

Open up each link on the X-axis echain that runs along the edge of the machine by inserting a flathead screwdriver into the gap in each link and twisting to pop it open.







Once all links are open, thread the status light cable through the echain down to the control box and close the links back up. Plug the cable into the one you previously installed in the control box. The light is now fully installed.