

### Tools Required

- Safety glasses
- Protective padding
- Necessary equipment/personnel to lift 210 lbs
- (2) anchors per support, recommended non-corrosive, maximum 3/8-16 diameter, 5" length, with concrete grip anchors
- T45 torx driver for attaching T-straps
- 5/32" hex driver for attaching light blocker, back panels and spacer bar
- Loctite for metal/concrete for attaching skatestops
- 1/8" hex driver for set screw in concrete
- 1/2" wrench for hex nut on concrete
- 1/16" hex driver for removing support cover plate
- 4ft or 8ft level

**Note:** DO NOT DRAG bench across concrete or other rough surfaces. This could damage the powder coat finish.

**Note:** For Light Kits, line-in voltage is required for each bench segment. Conduit should be located near the center of the bench, see Fig. 15 for limitations. Driver connects to intermediate support of each bench segment.

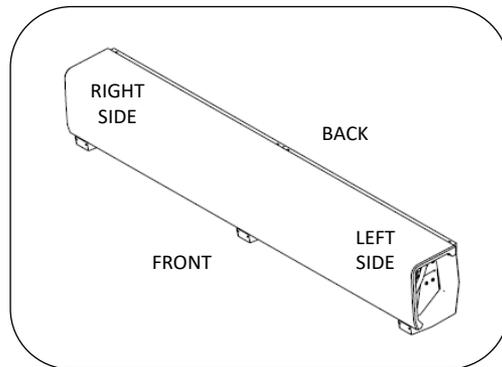


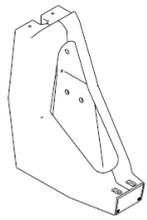
Fig. 1

**ASSEMBLE WITH CARE!** Pangard II® Polyester Powder coat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powder coated parts on packaging foam or other non-marring surface. Do not place or slide powder coated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

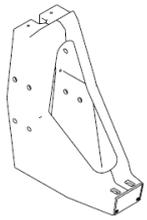
### INSTALLATION STEPS:

1. Set supports in position, near final layout. Allow clearance in back of bench for panel installation. Note left/right/center orientation of supports.
2. Install T-straps and tighten hardware, see Fig. 2.
3. Attach back panels to supports, see Fig. 2. Back panels should be flush with each other.
4. Move bench to final position.
5. Drill all holes for entire bench layout, see Fig. 5. Loosely install anchors.
6. Install light blockers on inside of end supports, see Fig. 6.
7. Level the supports. Adjust glides as necessary. See Figs. 3 and 4 for leveling detail.
8. Once supports are level, fully tighten surface mount anchors.
9. After tightening anchors, check supports for level again. Design of product allows for 1 degree of slope across the bench.
10. Apply VHB pads on each support, in location shown in Fig. 6.
11. Install 1/4-20 x 1" set screws in concrete. Each location has two inserts – install set screw in the inside hole, see Fig. 9. Set aside washers and nuts for installation in future step.
12. Align bottom set screws on concrete in the correct slots on the supports, see Fig. 10. Lift concrete into bottom set of slots, then rotate up and toward the center of the bench. Use caution to prevent set screws from scraping or damaging concrete. Once the top set of set screws is engaged in the slots on the top of the support, slide the concrete outward. This will engage the top set screws and prevent the concrete from rotating off the supports. Refer to Figs. 11A and 11B.
13. For light kit, install bracket onto support. Attach driver plate to bracket, see Fig. 7. Attach plastic clips to T-straps to secure LED light strips, see Fig. 8. Connect wiring to line-in wires. Each bench segment requires its own light kit and line-in voltage. Refer to Fig. 15 for recommended conduit locations
14. Install spacer bar, see Fig. 12. Use caution to prevent damage to concrete. Tighten snug to support, do not overtighten.
15. Remove end cap from each support, see Fig. 13.
16. Install nut and washer (set aside in step 11) on bottom of concrete, up from bottom at the support, see Fig. 14. The set screw located in the concrete at the top of the section does not receive a washer/nut. Do not overtighten.
17. Tighten washer and nut on concrete, do not overtighten. Reinstall support end caps.
18. Install optional skatestops, see Fig. 16. Refer to plan drawings for location. Recommend maximum 36" spacing. Install on clean, dry concrete using Loctite as instructed. Wipe away excess epoxy before it cures.

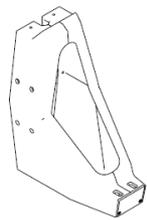
Included components:



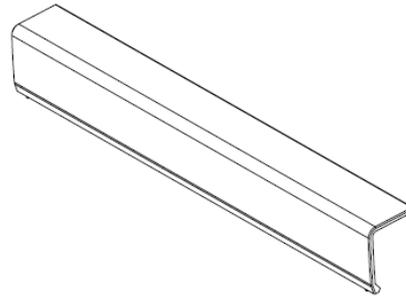
End support,  
Right side



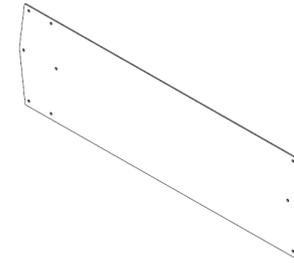
End support,  
center



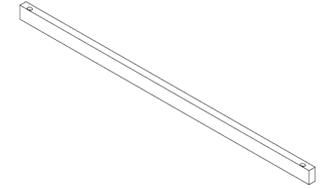
End support,  
Left side



Concrete seat, straight - 1X



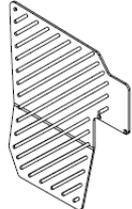
Back panel - 2X



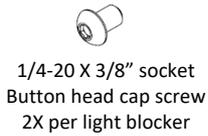
Spacer bar - 2X



Light blocker  
Right side



Light blocker  
left side



1/4-20 X 3/8" socket  
Button head cap screw  
2X per light blocker



1/4-20 x 1" set  
screw - 4X



3/4" O.D.  
washer - 2X



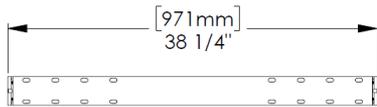
1/4-20 hex  
nut - 2X



1/4-20 x 3/4" button  
Head cap screws  
9X per panel



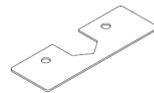
1/4-20 x 2" button  
Head cap screws  
2X per spacer bar



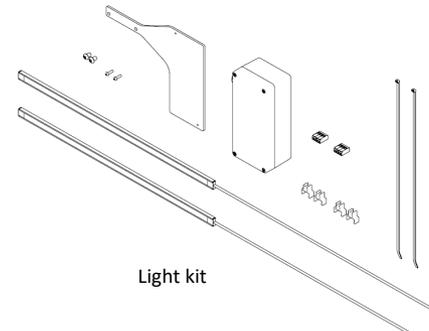
T-strap "T" - 2X



Plastic support pad  
1X per support



Plastic support pad  
1X per support



Light kit



3/8-16 x 1" torx  
Button head cap screw  
8X per T-strap



Skatestop

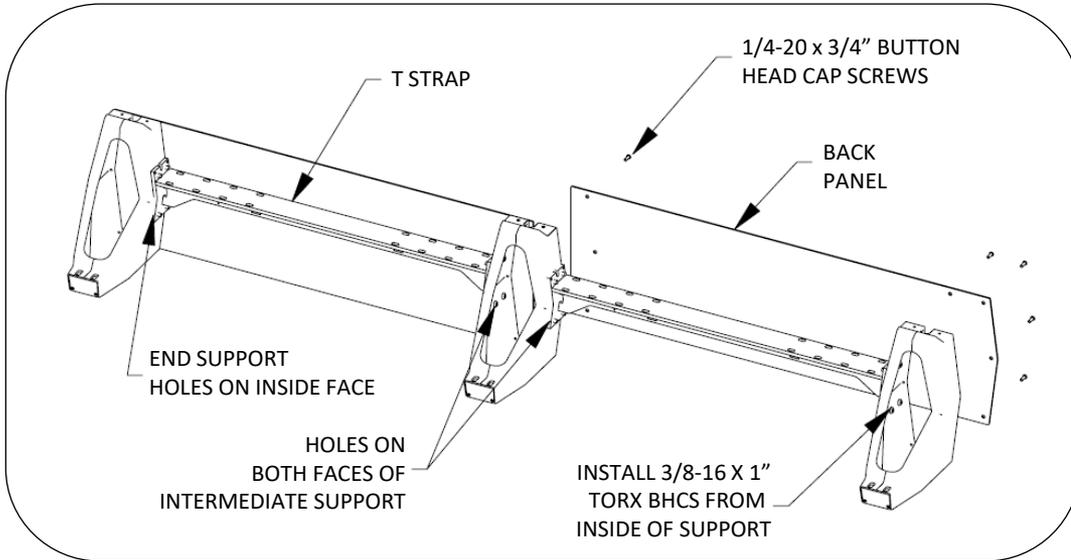


Fig. 2

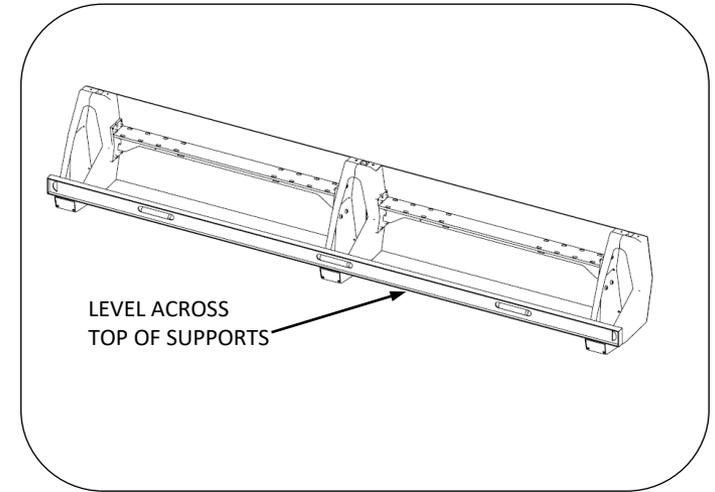


Fig. 3

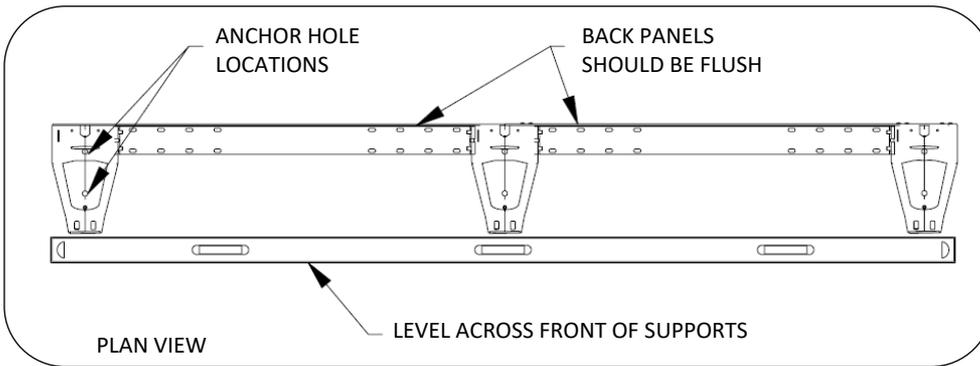


Fig. 4

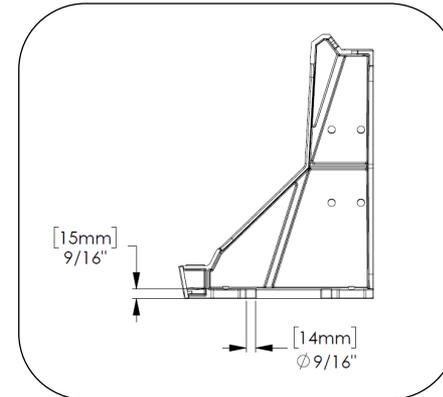


Fig. 5

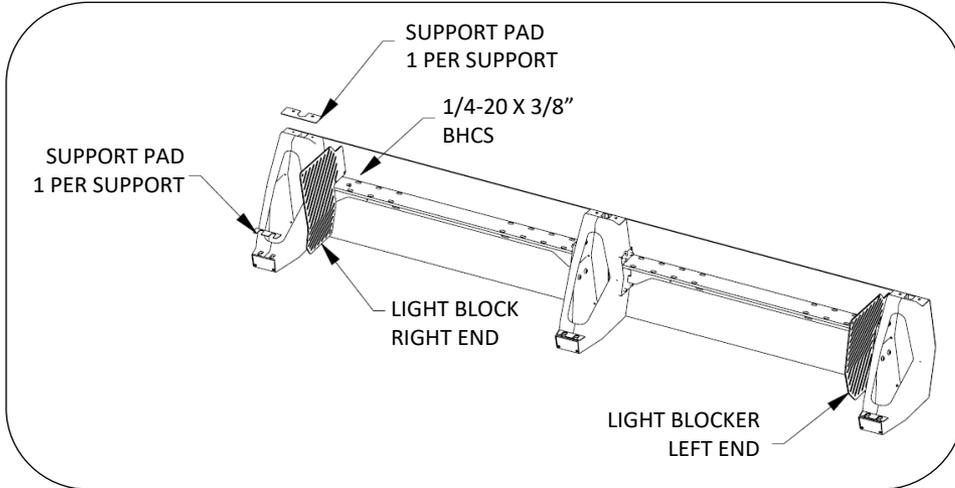


Fig. 6

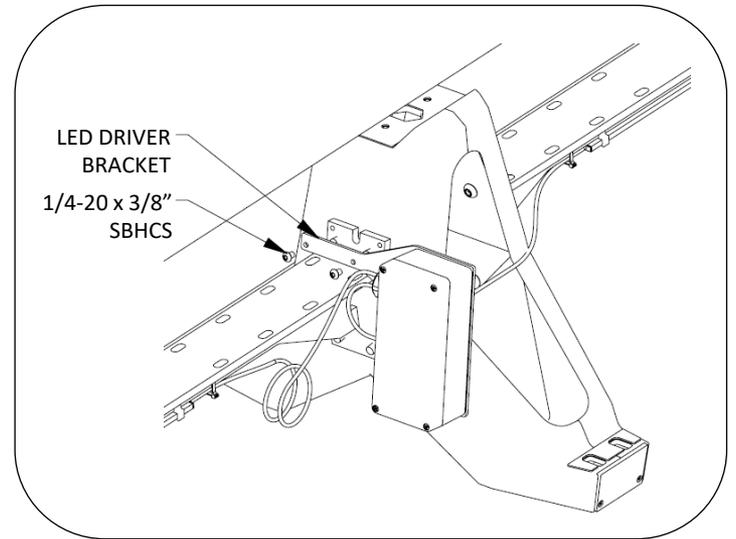


Fig. 7

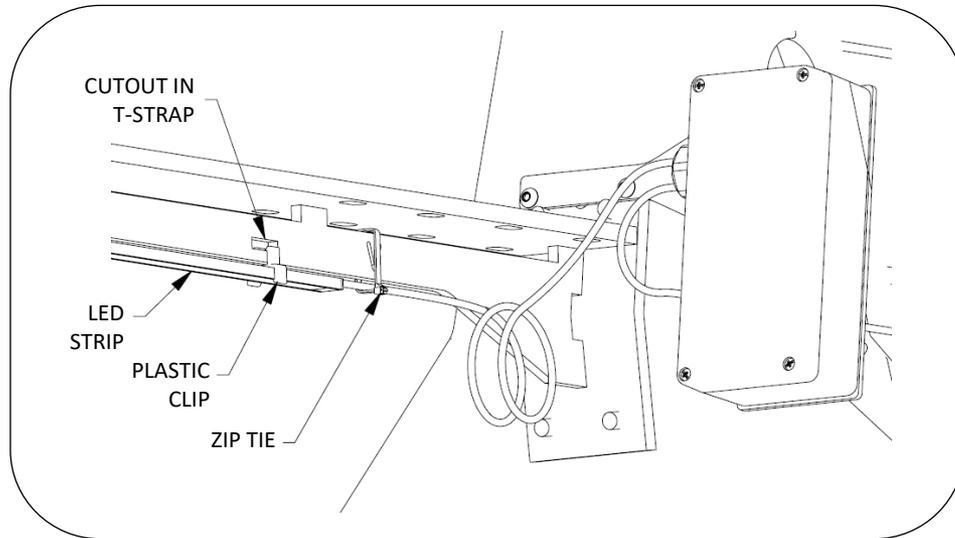


Fig. 8

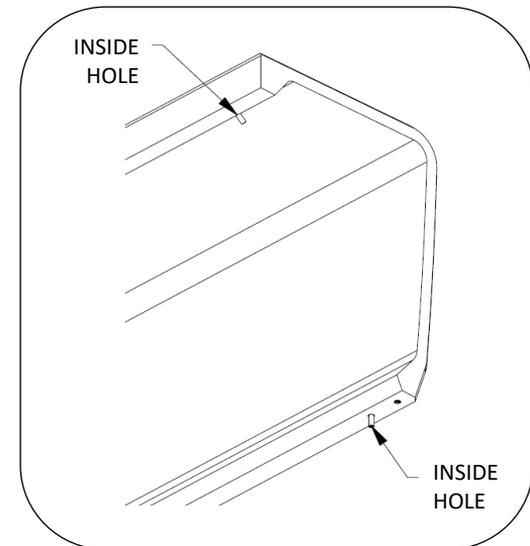


Fig. 9

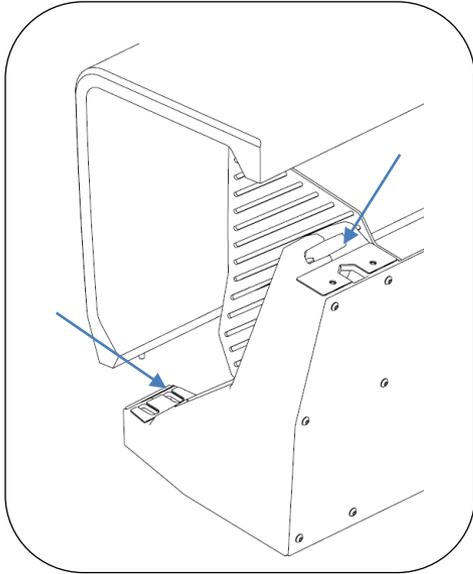


Fig. 10

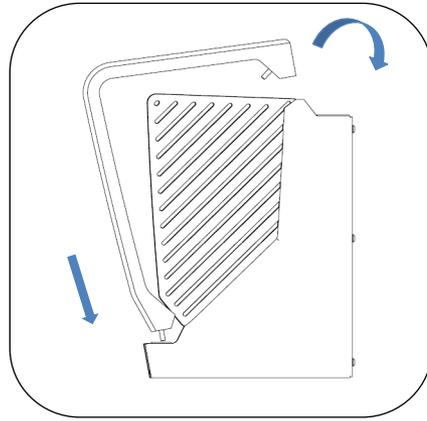


Fig. 11A

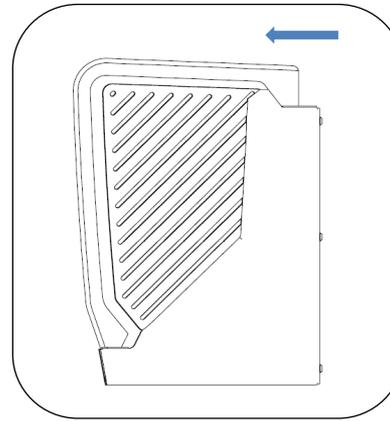


Fig. 11B

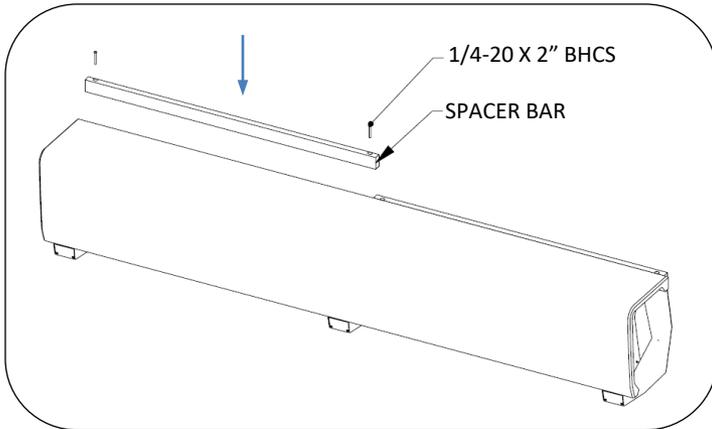


Fig. 12

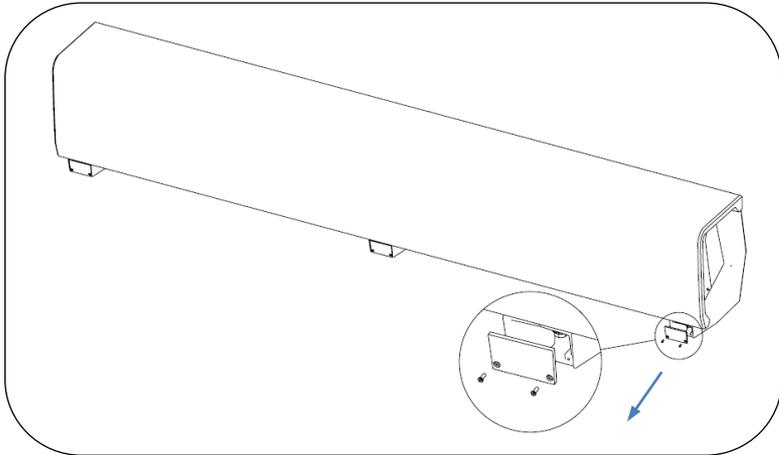


Fig. 13

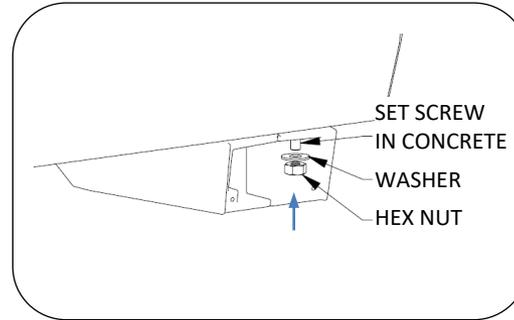


Fig. 14

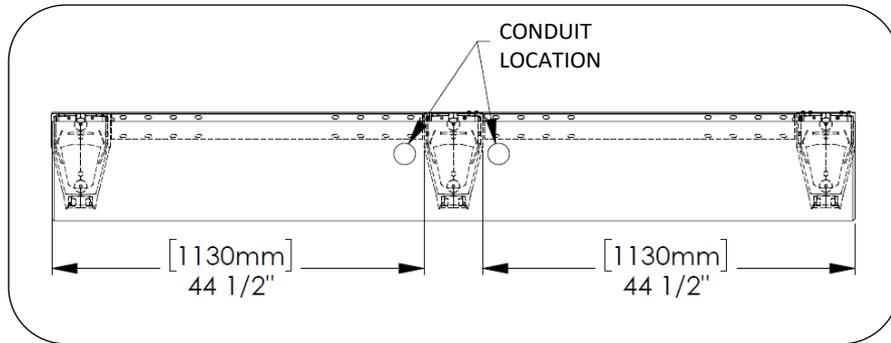


Fig. 15

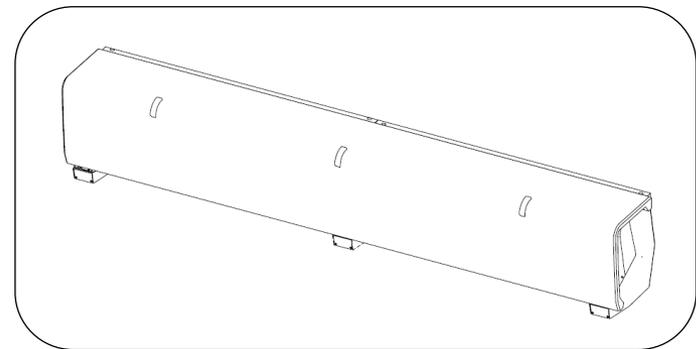


Fig. 16