

***TSH2***  
***Trove2SH2***

***TSH3***  
***Trove3SH3***

*Combine Software House Access Controllers with Altronix Power and Accessories*

## ***Installation Guide***

Rev. TSH012918



**More than just power.™**

Trove2SH2 and Trove3SH3 accommodate various combinations of Software House boards with or without Altronix power supplies and accessories for access systems.

## Specifications:

### Trove2SH2

#### - Trove2 enclosure with TSH2

##### Altronix/Software House backplane.

- Includes: tamper switch, cam lock, lock nuts and mounting hardware.
- 16 Gauge grey enclosure with ample knockouts for convenient access.

##### Enclosure Dimensions (H x W x D):

27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm).

Accommodates up to four (4) 12VDC/7AH batteries.

### TSH2

#### - TSH2 Altronix/Software House backplane.

- 16 Gauge backplane.
- Includes mounting hardware.

##### Dimensions (H x W x D):

25.375" x 19.375" x 0.3125" (644.6mm x 492.1mm x 7.9mm).

### Trove3SH3

#### - Trove3 enclosure with TSH3

##### Altronix/Software House backplane.

- Includes: two (2) tamper switches, cam lock, lock nuts and mounting hardware.
- 16 Gauge grey enclosure with ample knockouts for convenient access.

##### Enclosure Dimensions (H x W x D):

36.12" x 30.125" x 7.06" (917.5mm x 768.1mm x 179.3mm).

Accommodates up to four (4) 12VDC/12AH batteries.

### TSH3

#### - TSH3 Altronix/Software House backplane.

- 16 Gauge backplane.
- Includes mounting hardware.

##### Dimensions (H x W x D):

34" x 28" x 0.3125" (863.6mm x 711.2mm x 7.9mm).

## Accessories:

- RSB2** - Rocker Switch Bracket for switching main power ON and OFF.
- BL6** - 68" pair of battery leads.

## Backplanes Accommodate a Combination of the Following:




### TSH2:

- Up to three (3) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, or eFlow104NB.
- Up to five (5) ACM8(CB).
- Up to two (2) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.
- One (1) iStar Ultra GCM or one (1) iStar Pro GCM and two (2) iStar Ultra ACM or two (2) iStar ACM SE/PRO ACM.
- One (1) I8, R8, or I8-CSI expansion modules.

### TSH3:

- Up to four (4) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, or eFlow104NB.
- Up to four (4) ACM8(CB).
- Up to five (5) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.
- One (1) iStar Ultra GCM or one (1) iStar Pro GCM and two (2) iStar Ultra ACM or two (2) iStar ACM SE/PRO ACM.
- Up to two (2) I8, R8, or I8-CSI expansion modules.

## Hardware:

 Metal or Nylon Standoff |  5/16" Pan Head Screw |  Lock Nut

## Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

- Remove backplane from enclosure. Do not discard hardware.
- Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the three upper screws; level and secure. Mark the position of the lower three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the three upper screws. Install the three lower screws and make sure to tighten all screws.
- Mount included UL Listed tamper switch (Honeywell Model 112 or equivalent) in desired location, opposite hinge. Slide the tamper switch bracket onto the edge of the enclosure approximately 2" from the right side (*Fig. 1, pg. 2*). Connect tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate alarm signal open the door of the enclosure.
- Mount Altronix/Software House boards to backplane, *refer to pages 3-8*.

## Board Mounting:

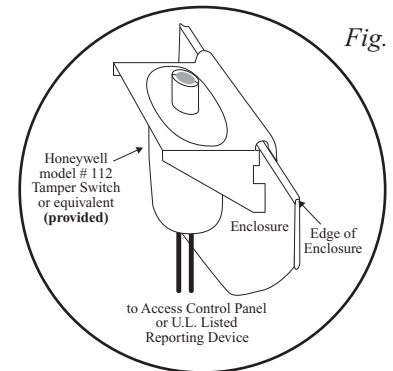
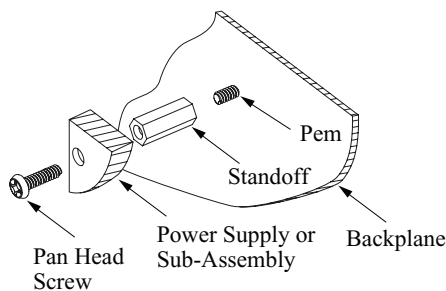
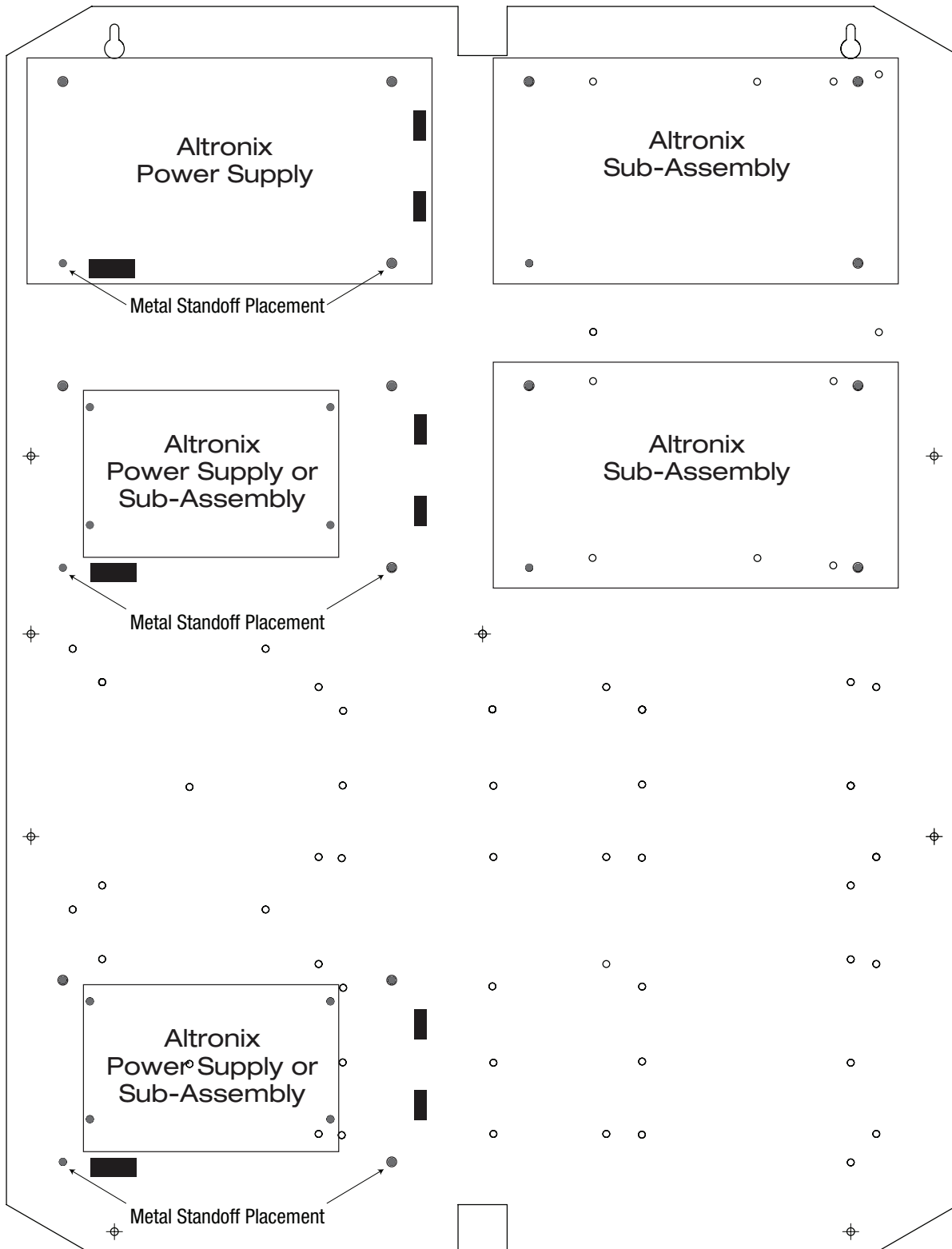


Fig. 1

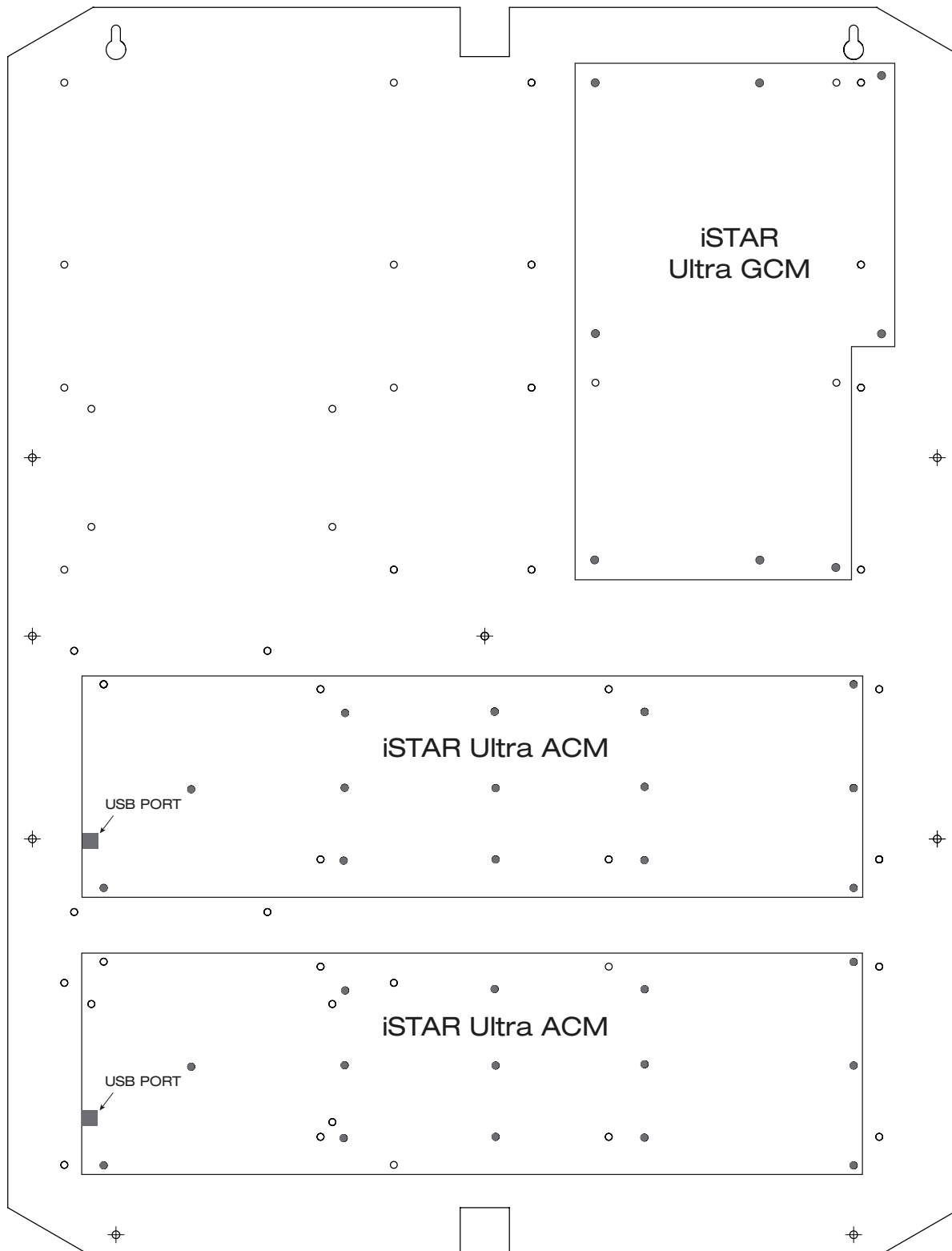
1. Fasten standoffs (provided) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards (*Fig. 2, pg. 2*).  
Fasten metal standoffs in the correct locations to provide proper grounding, see below (*Fig. 2, pg. 3*).
2. Mount boards to standoffs utilizing 5/16" pan head screws (provided) (*Fig. 2, pg. 3*).
3. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Fig. 2



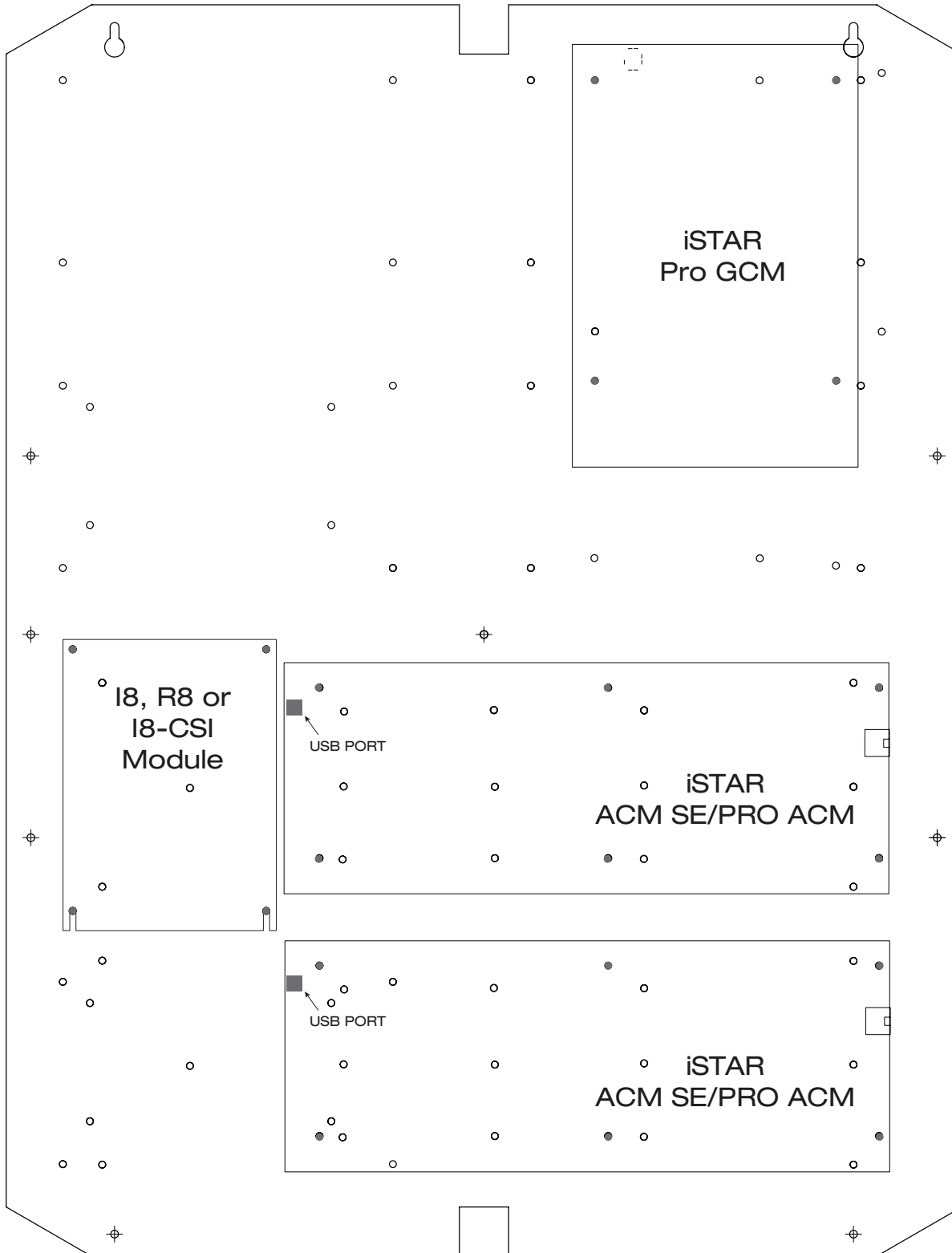
1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten provided standoffs to pems that match the hole pattern for Software House iSTAR Ultra GCM and iSTAR Ultra ACM boards.
3. Mount Software House boards to standoffs utilizing 5/16" pan head screws (provided) (*Fig. 3, pg. 4*).  
**Note:** Software House iSTAR Ultra ACM boards have one (1) USB port each.  
Please orient boards in the appropriate position according to the *Fig. 3* below.
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

*Fig. 3*



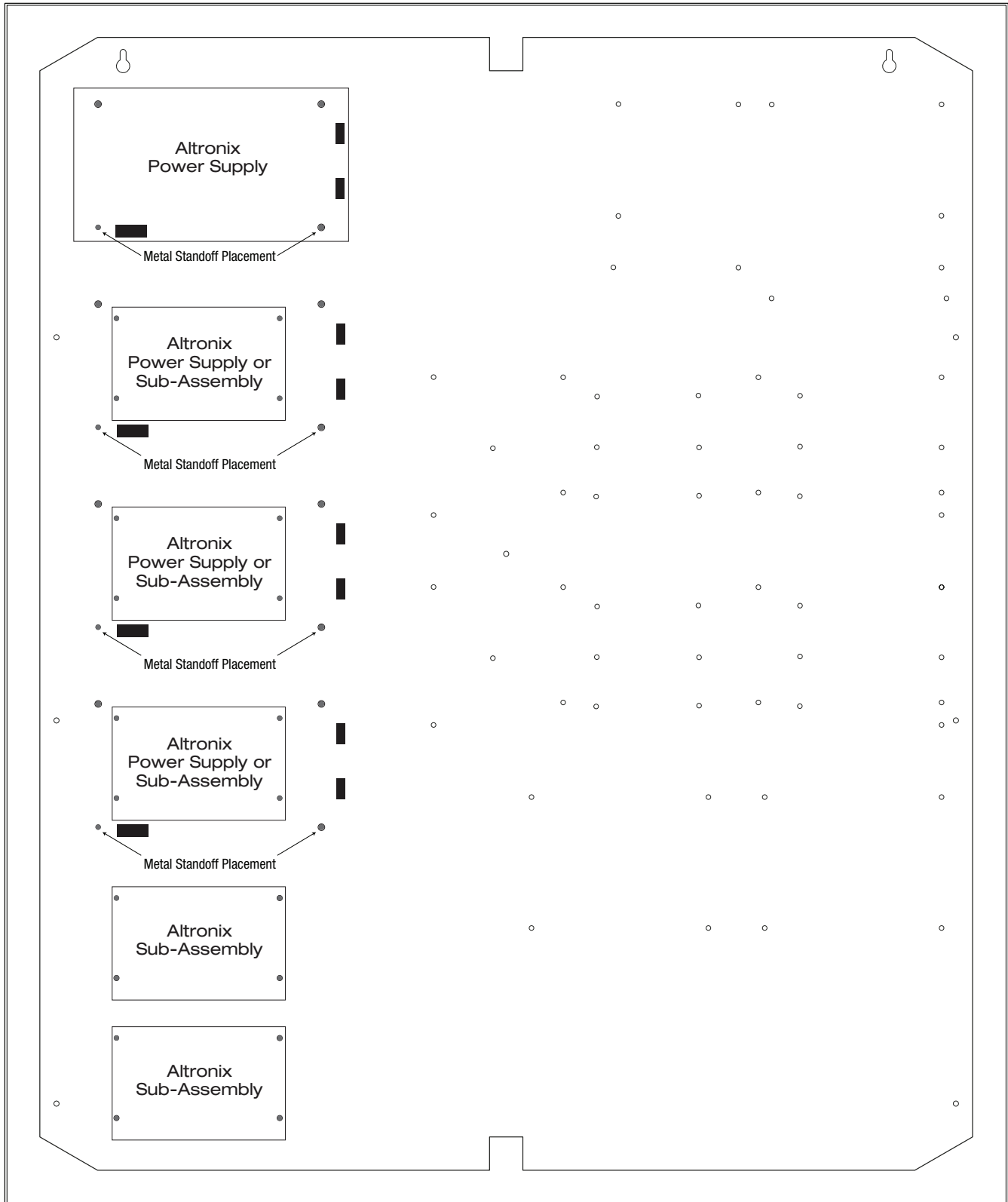
1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten provided standoffs to pems that match the hole pattern for Software House iSTAR Pro GCM, iSTAR ACM SE/PRO ACM, and /or I8, R8, I8-CSI boards.
3. Mount Software House boards to standoffs utilizing 5/16" pan head screws (provided) (*Fig. 4, pg. 5*).  
**Note:** Software House iSTAR ACM SE/PRO ACM boards have one (1) USB port each.  
Please orient boards in the appropriate position according to the *Fig. 4* below.
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

*Fig. 4*



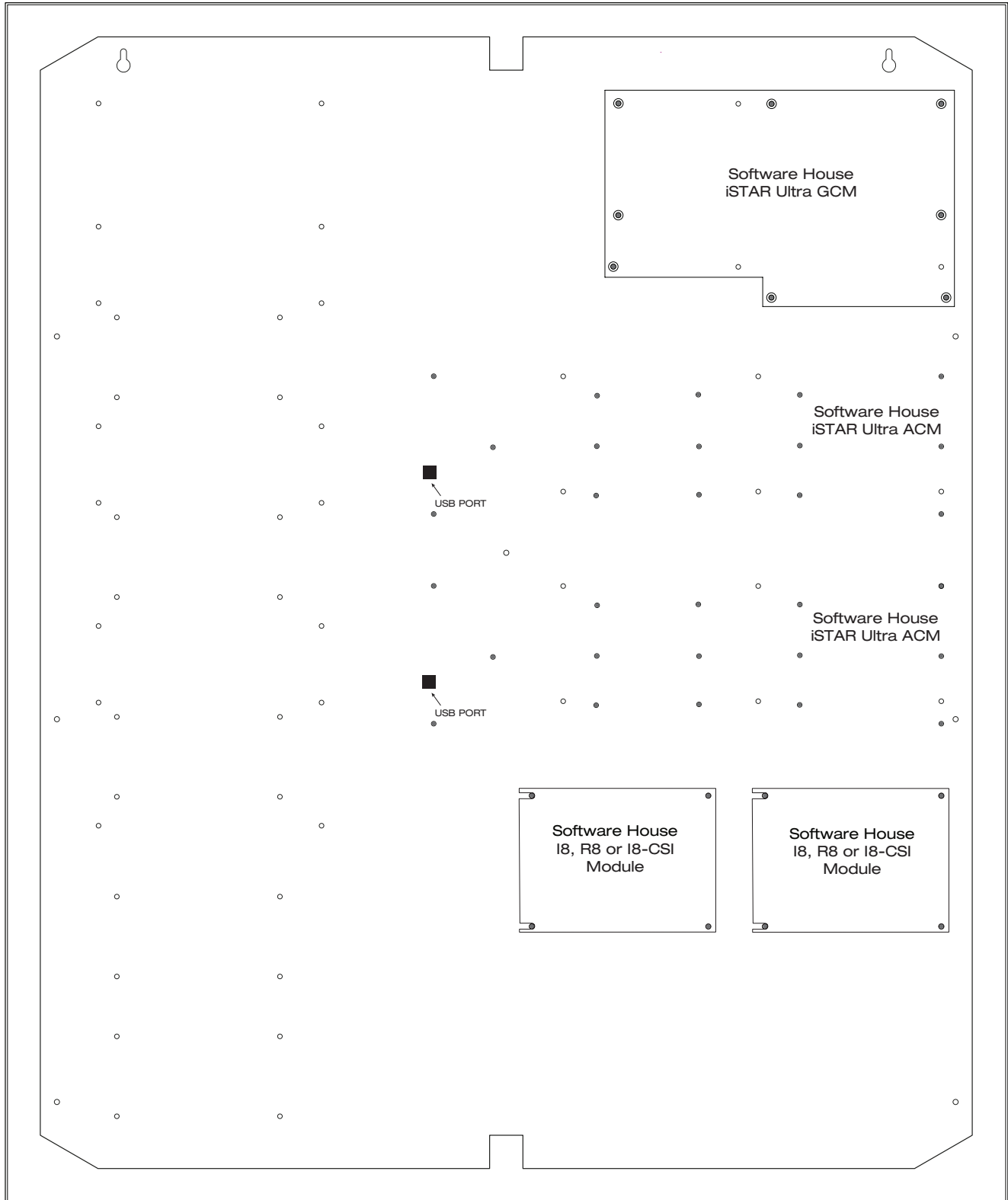
1. Fasten standoffs (provided) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards (Fig. 5, pg. 6).  
Fasten metal standoffs in the correct locations to provide proper grounding, see below (Fig. 5, pg. 6).
2. Mount boards to standoffs utilizing 5/16" pan head screws (provided) (Fig. 5, pg. 6).
3. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Fig. 5



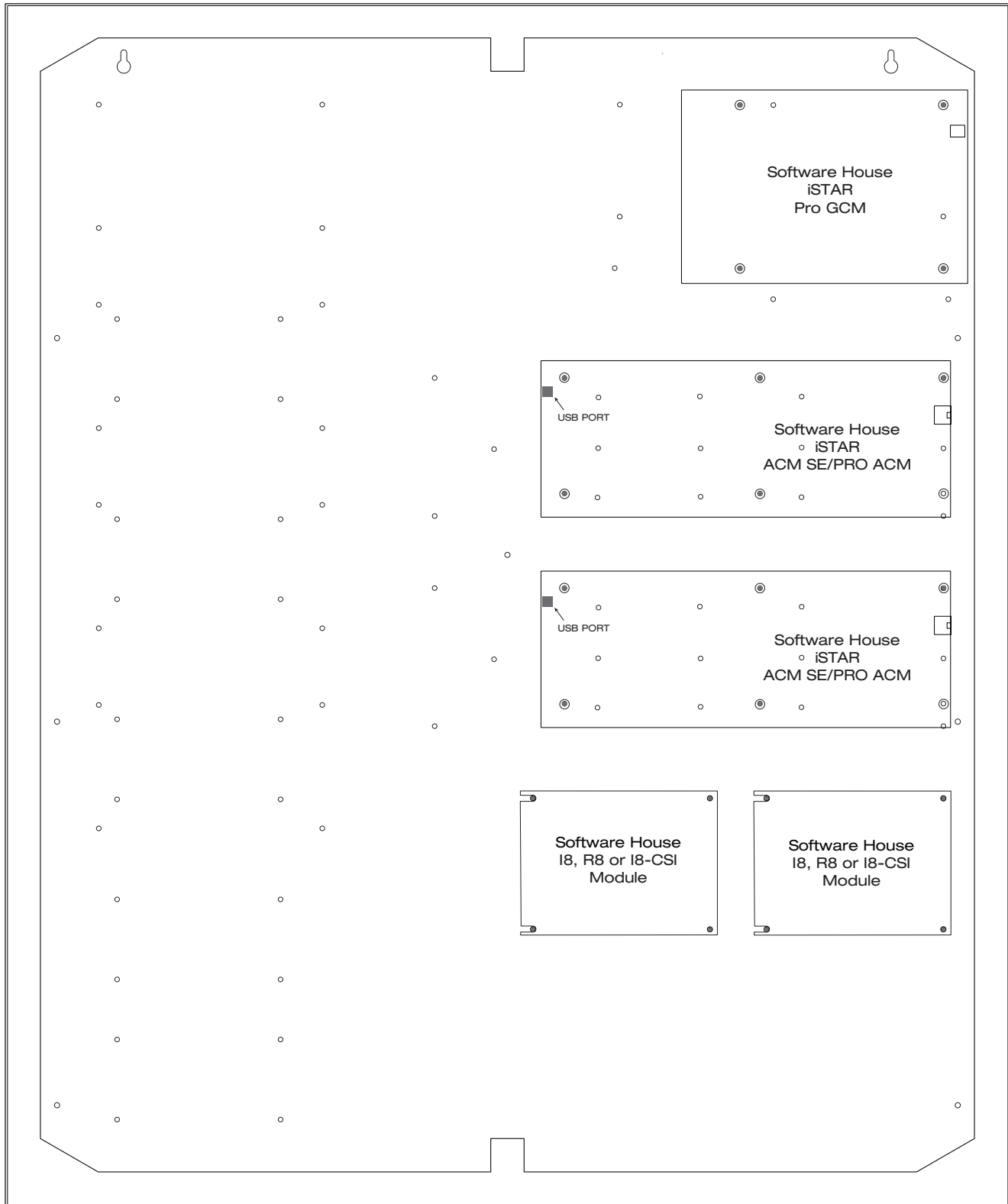
1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
  2. Fasten provided standoffs to pems that match the hole pattern for Software House iSTAR Ultra GCM and iSTAR Ultra ACM boards.
  3. Mount Software House boards to standoffs utilizing 5/16" pan head screws (provided) (*Fig. 6, pg. 7*).
- Note:** Software House iSTAR Ultra ACM boards have one (1) USB port each.  
 Please orient boards in the appropriate position according to the *Fig. 6* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

*Fig. 6*

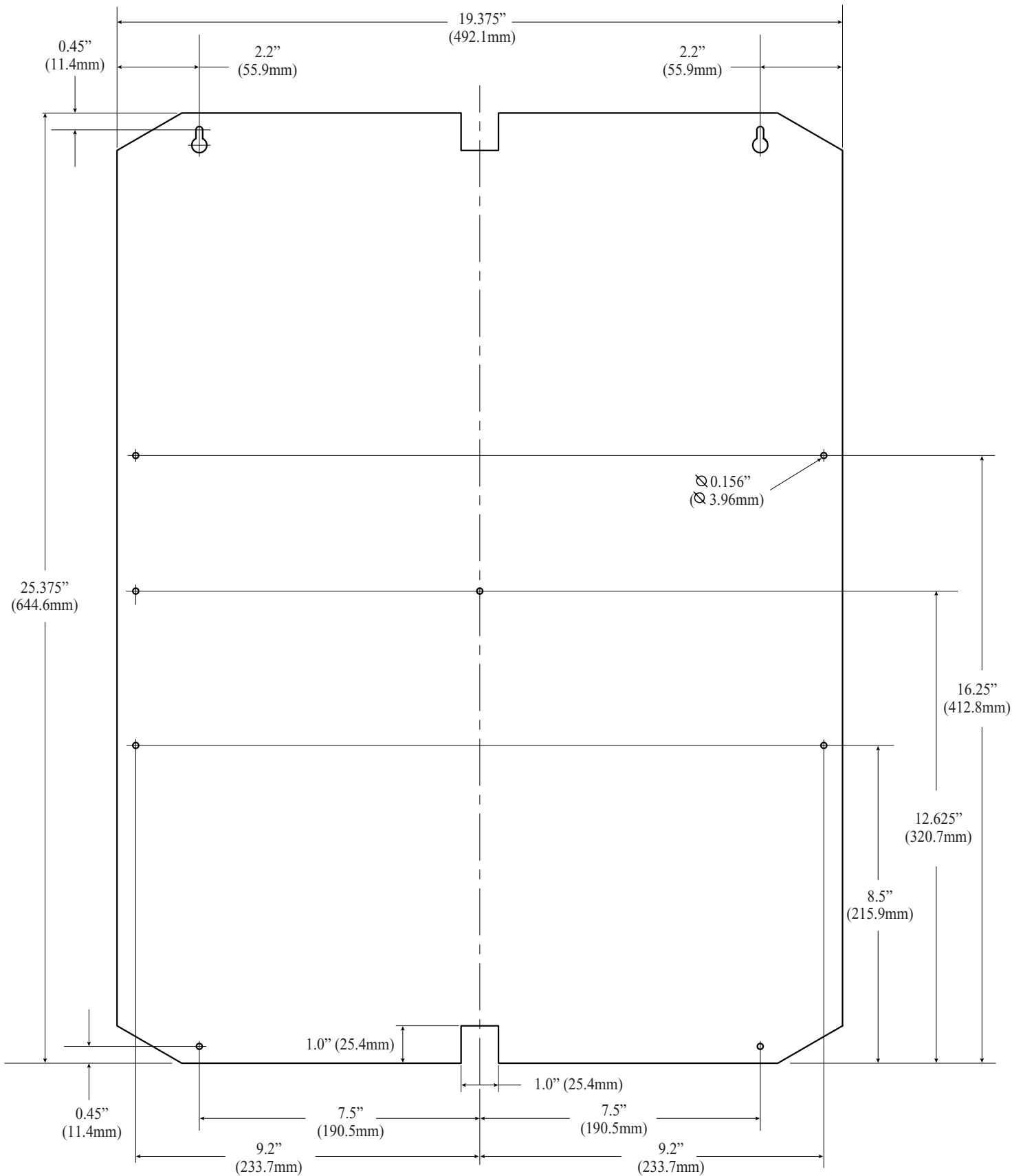


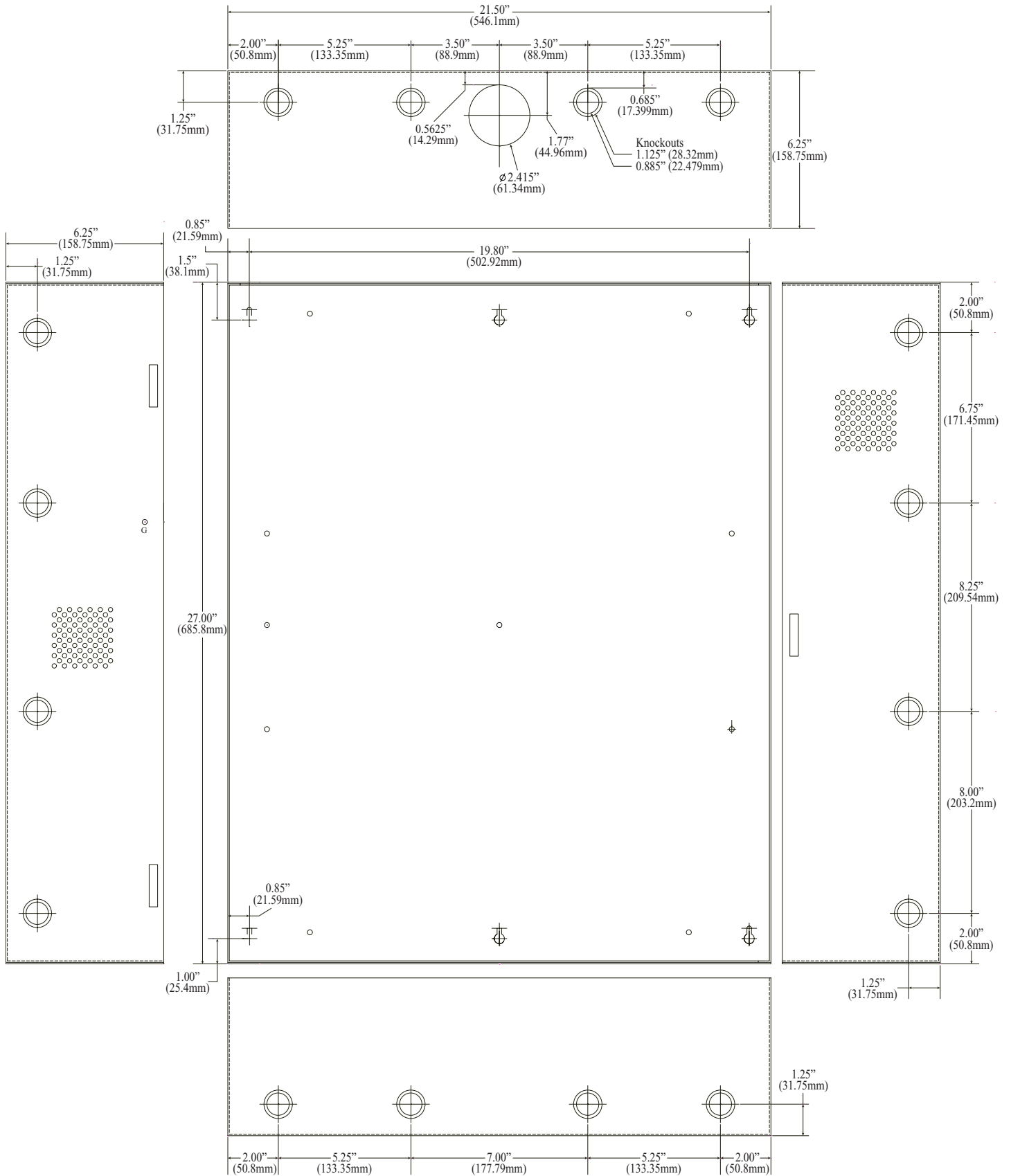
1. Align the Software House boards on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten provided standoffs to pems that match the hole pattern for Software House iSTAR Pro GCM, iSTAR ACM SE/PRO ACM, and /or I8, R8, I8-CSI boards.
3. Mount Software House boards to standoffs utilizing 5/16" pan head screws (provided) (*Fig. 7, pg. 8*).  
**Note:** Software House iSTAR Ultra ACM boards have one (1) USB port each.  
Please orient boards in the appropriate position according to the *Fig. 7* below.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

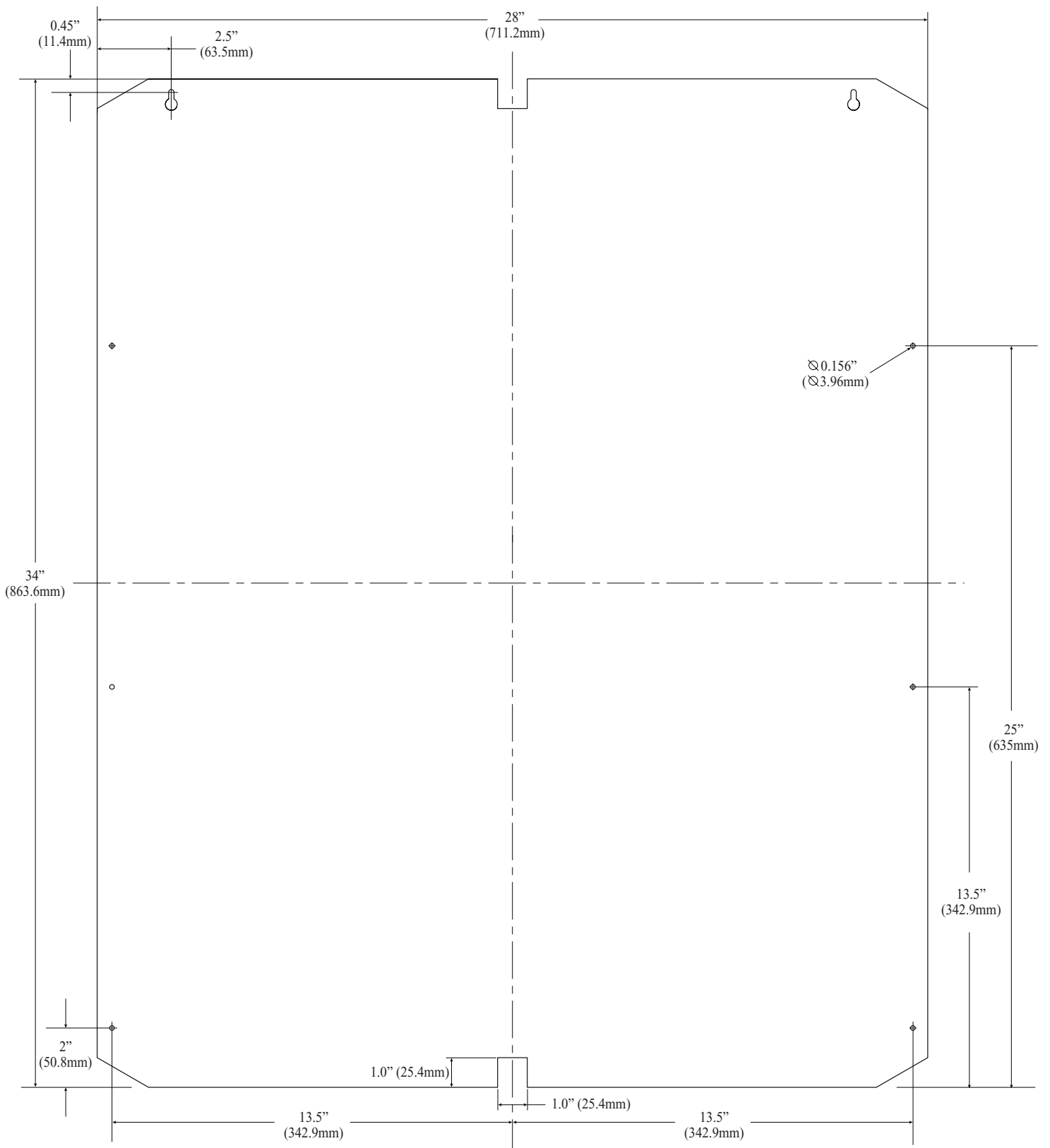
*Fig. 6*

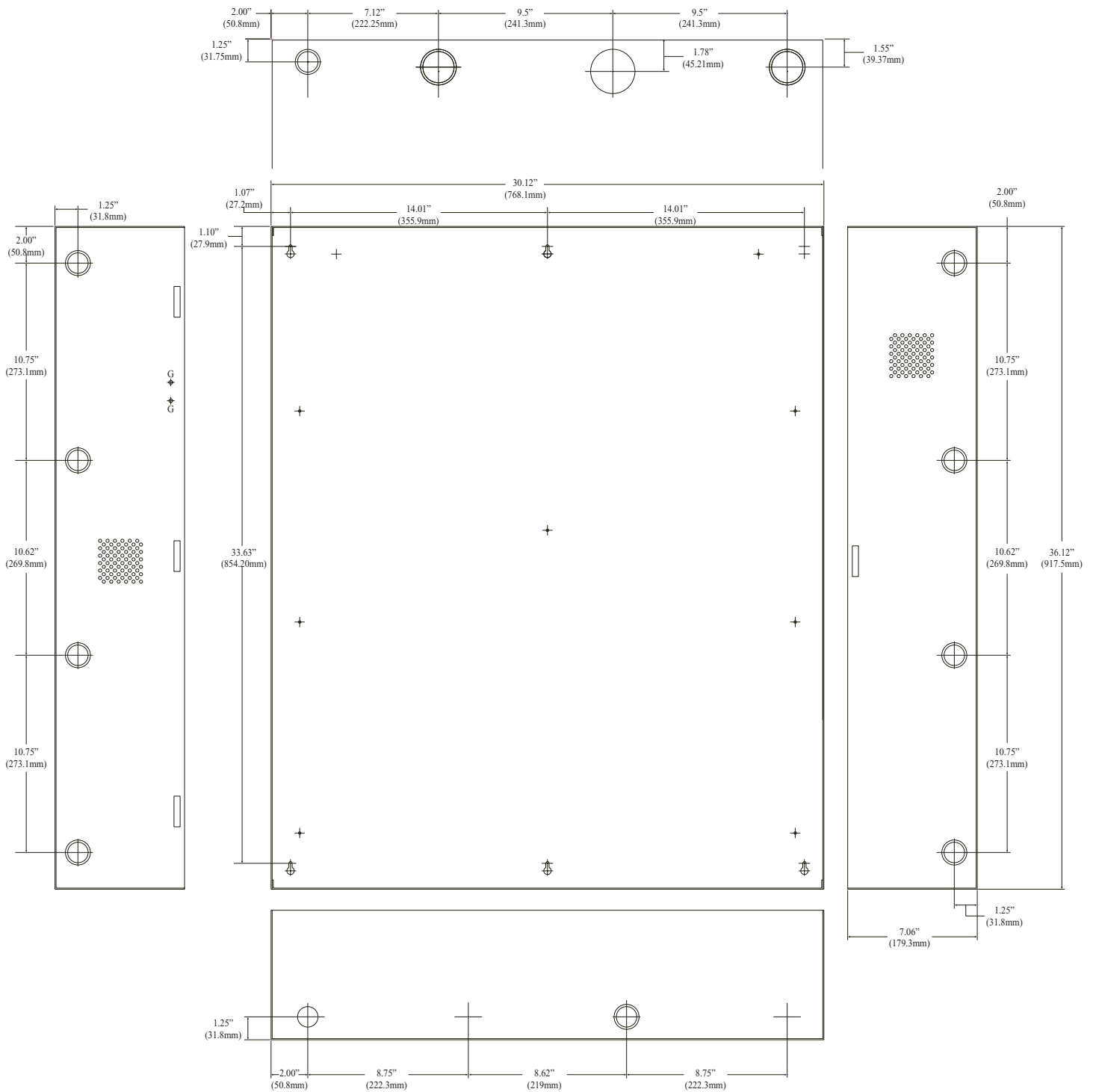












Altronix is not responsible for any typographical errors.

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