

SECURITY SECURITY SIGNALING



HARTMANN
ACCESS CONTROL SYSTEMS

Access & Power Integration

Trove1HC1

- Trove1 enclosure with Altronix/Hartmann Controls backplane (THC1)

THC1

- Altronix/Hartmann Controls backplane only

Trove2HC2

- Trove2 enclosure with Altronix/Hartmann Controls backplane (THC2)

THC2

- Altronix/Hartmann Controls backplane only

Installation Guide

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Rev. THC080520

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Trove1HC1 and Trove2HC2 accommodate various combinations of Hartmann Controls modules with or without Altronix power supplies and accessories for access control systems.

Specifications:

- 16 Gauge backplane and enclosure with ample knockouts for convenient access.

Trove1HC1

Trove1 enclosure with THC1 Altronix/Hartmann Controls backplane

- Includes: tamper switch, cam lock, lock nuts, and mounting hardware.
Enclosure Dimensions (H x W x D):
18" x 14.5" x 4.625" (457mm x 368mm x 118mm).

THC1

Altronix/Hartmann Controls backplane only

- Includes mounting hardware.
Dimensions (H x W x D):
16.625" x 12.5" x 0.3125" (422.3mm x 317.5mm x 7.9mm).

THC1 accommodates a combination of the following:

Altronix Modules:

- One (1) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB or eFlow104NB.
- One (1) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), VR6.

Hartmann Controls Modules:

- One (1) PRS_Master module.
- Up to four (4) PRS_TDM or PRS_IO8 modules.

Trove2HC2

Trove2 enclosure with THC2 Altronix/Hartmann Controls backplane

- Includes: tamper switch, cam lock, lock nuts, and mounting hardware.
Enclosure Dimensions (H x W x D):
27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm).

THC2

Altronix/Hartmann Controls backplane only

- Includes mounting hardware.
Dimensions (H x W x D):
25.375" x 19.375" x 0.325" (644.5mm x 482.6mm x 8.3mm)

THC2 accommodates a combination of the following:

Altronix Modules:

- Two (2) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB or eFlow104NB.
- Two (2) ACM8(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), VR6.

Hartmann Controls Modules:

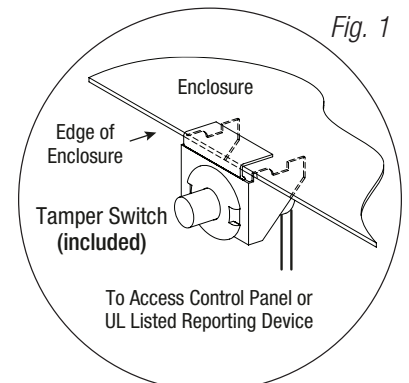
- Up to two (2) PRS_Master modules.
- Up to eight (8) PRS_TDM or PRS_IO8 modules.

Agency Listings:

- UL 294 - 6th edition: Line Security I, Destructive Attack I, Endurance IV, Stand-by Power II*.
*Stand-by Power Level I if no battery is supplied.
- This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- CE European Conformity.

Installation Instructions for Trove1 and Trove2:

1. Remove backplane from enclosure prior to mounting (do not discard hardware).
2. **Trove1HC1 (Pg. 7):**
Mark and predrill holes on the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws; level and secure.
Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the two fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws.
Trove2HC2 (Pg. 8):
Mark and predrill holes on 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.
3. Mount included UL Listed tamper switch (Altronix Model TS112 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.
4. Mount Altronix/Hartmann Controls modules to THC1 or THC2 backplane, refer to *pages 3, 4*.



THC1: Configuration of Altronix Power Supply and/or Sub-Assembly Boards and Hartmann Controls Boards:

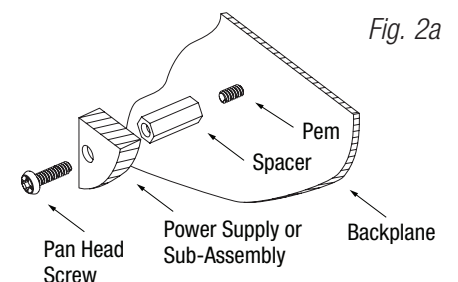
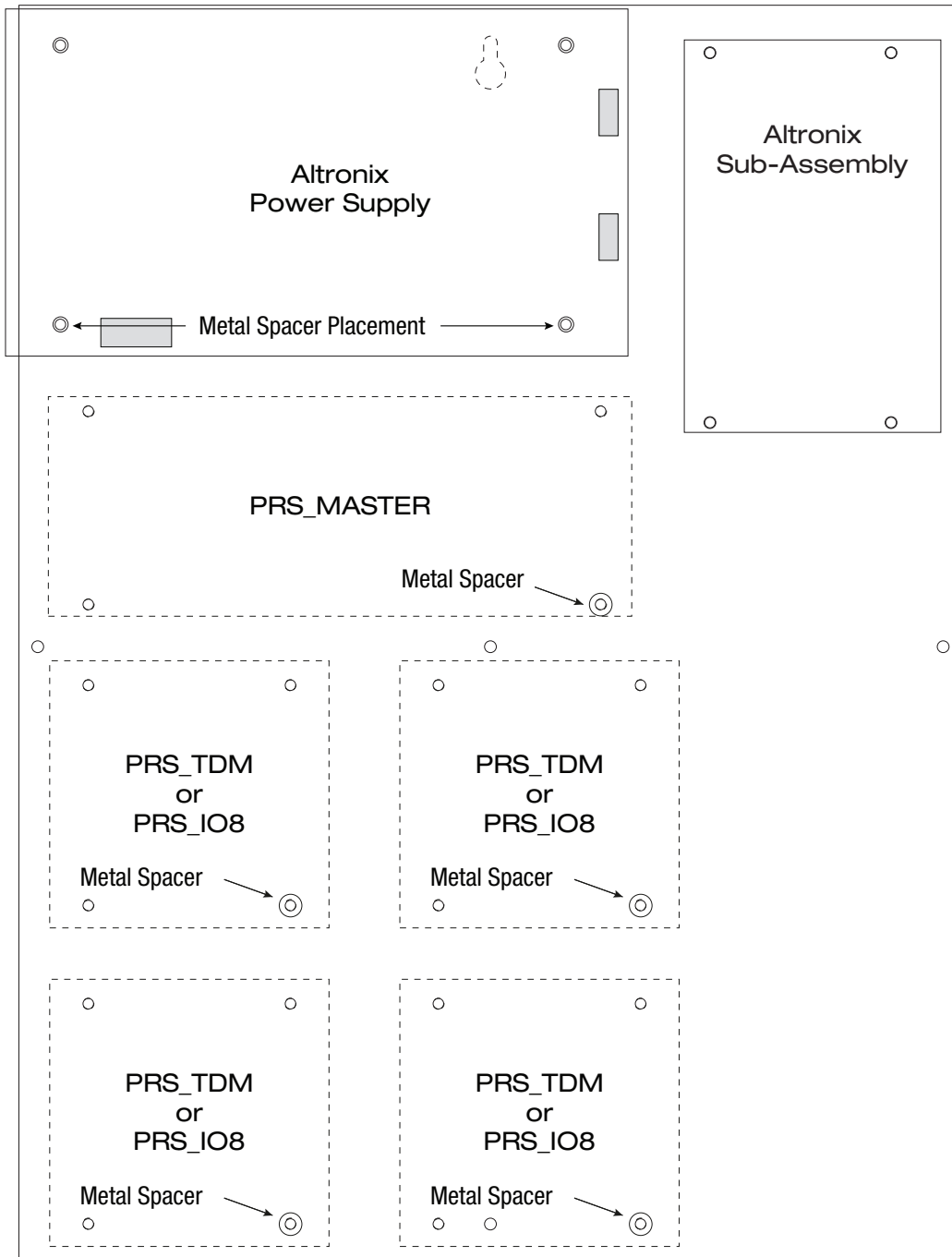
1. Fasten spacers (provided) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards (Fig. 2, pg. 3). Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 2, pg. 3).
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 2, 2a, pg. 3).
3. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with corresponding pems.
4. Fasten spacers (provided) to pems that match the hole pattern for Hartmann Control boards (Fig. 2, 2a, pg. 3).

Note: Hartmann Controls boards must be properly grounded.

Please use provided metal spacers for the lower right mounting holes (Fig. 2, pg. 3).

5. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (Fig. 2a, pg. 3).
6. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

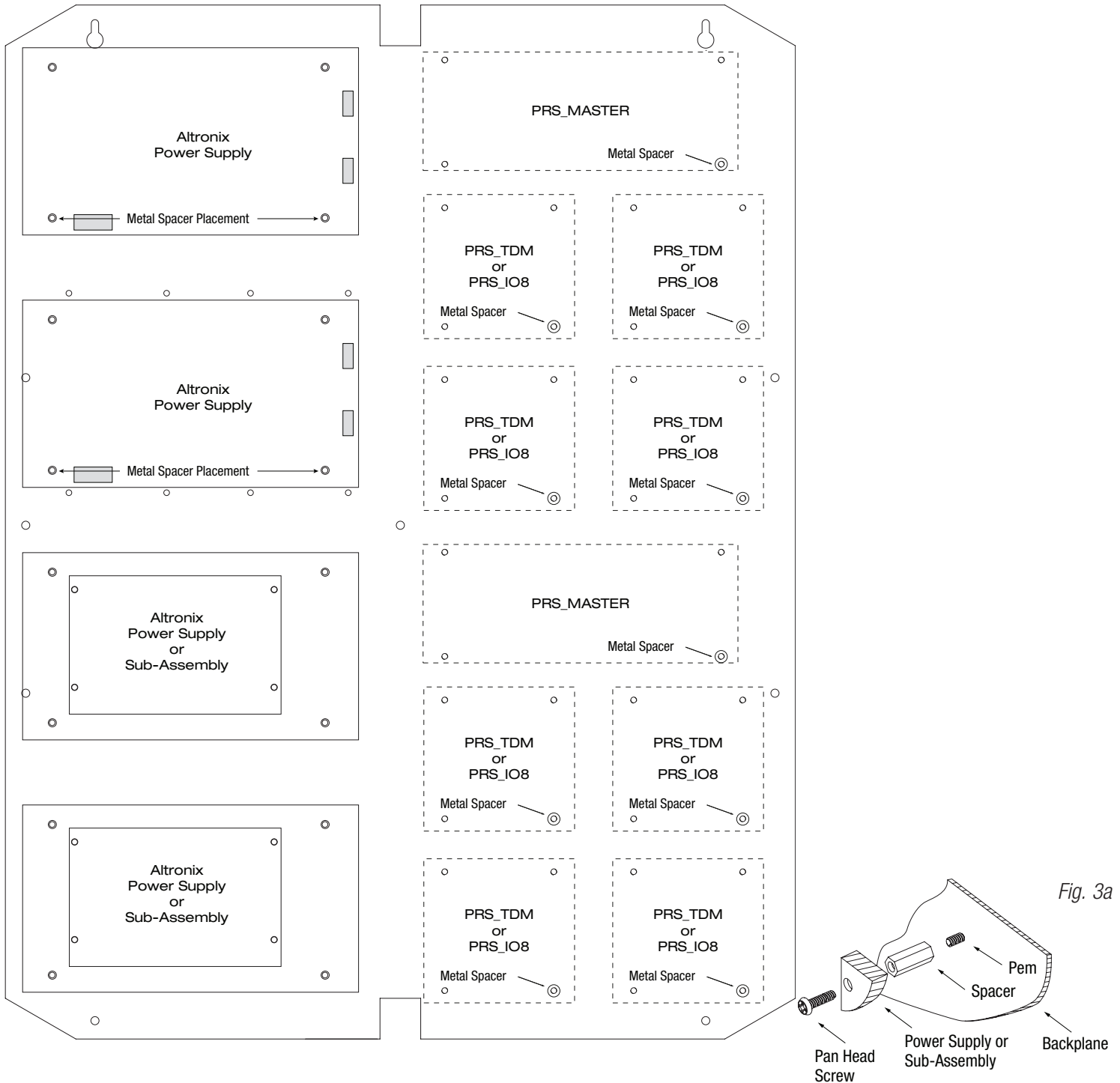
Fig. 2 - Trove1HC1/THC1 Configuration



THC2: Configuration of Altronix Power Supply and/or Sub-Assembly Boards and Hartmann Controls Boards:

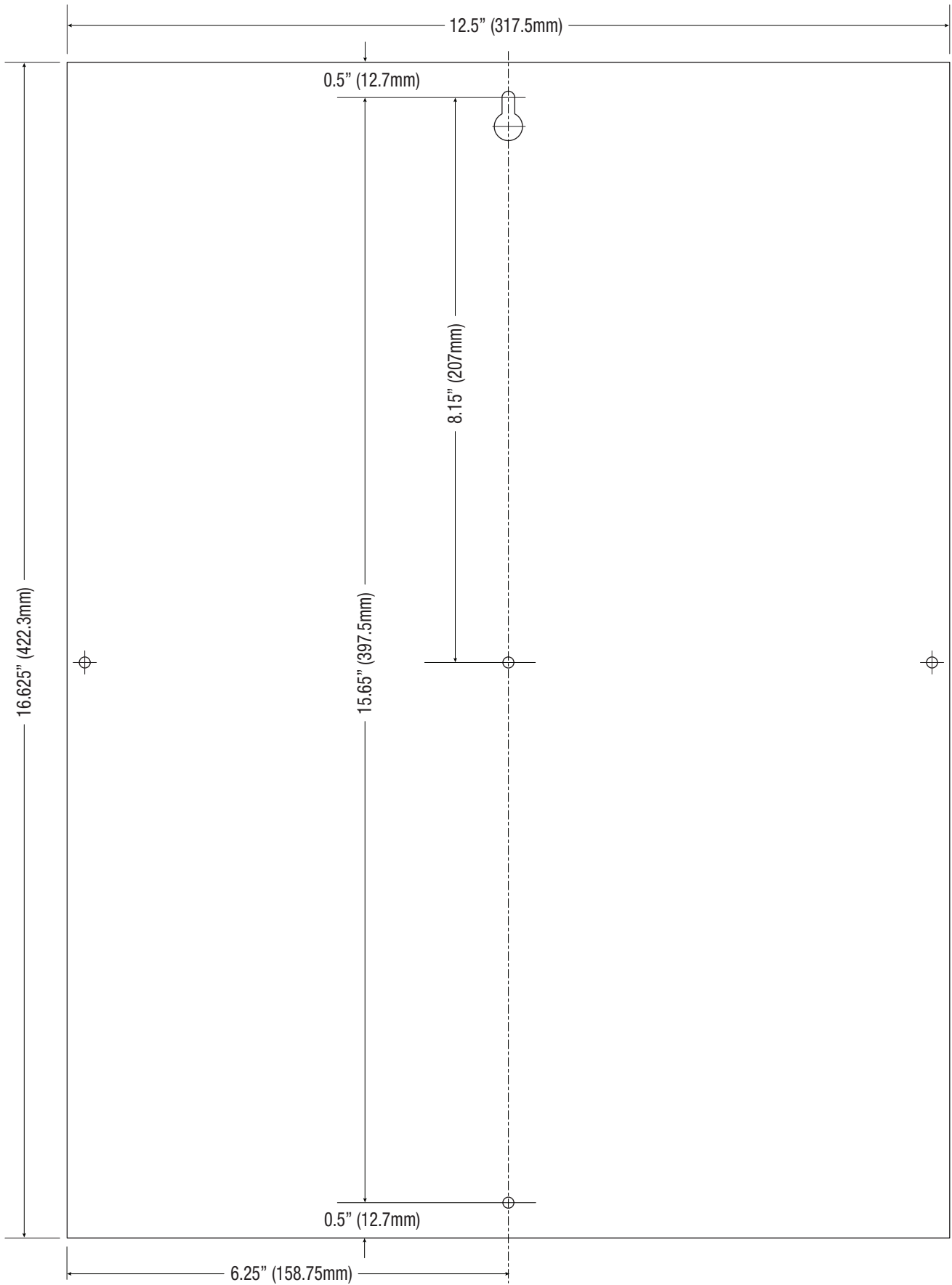
1. Fasten spacers (provided) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards (Fig. 3, pg. 4). Fasten metal spacers in the correct locations to provide proper grounding, see below (Fig. 3, pg. 4).
 Note: each Altronix sub-assembly position can accommodate one (1) ACM8/ACM8CB, PD4UL/PD4ULCB, PD8UL/PD8ULCB, MOM5, PDS8(CB) or VR6.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 3, 3a, pg. 4).
3. Align the Hartmann Controls boards on the backplane to match the boards' mounting holes with corresponding pems.
4. Fasten spacers (provided) to pems that match the hole pattern for Hartmann Control boards (Fig. 3, 3a, pg. 4).
Note: Hartmann Controls boards must be properly grounded.
 Please use provided metal spacers for the lower right mounting holes (Fig. 3, pg. 4).
5. Mount Hartmann Controls boards to spacers utilizing provided 5/16" pan head screws (Fig. 3a, pg. 4).
6. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Fig. 3 - Trove2HC2/THC2 Configuration



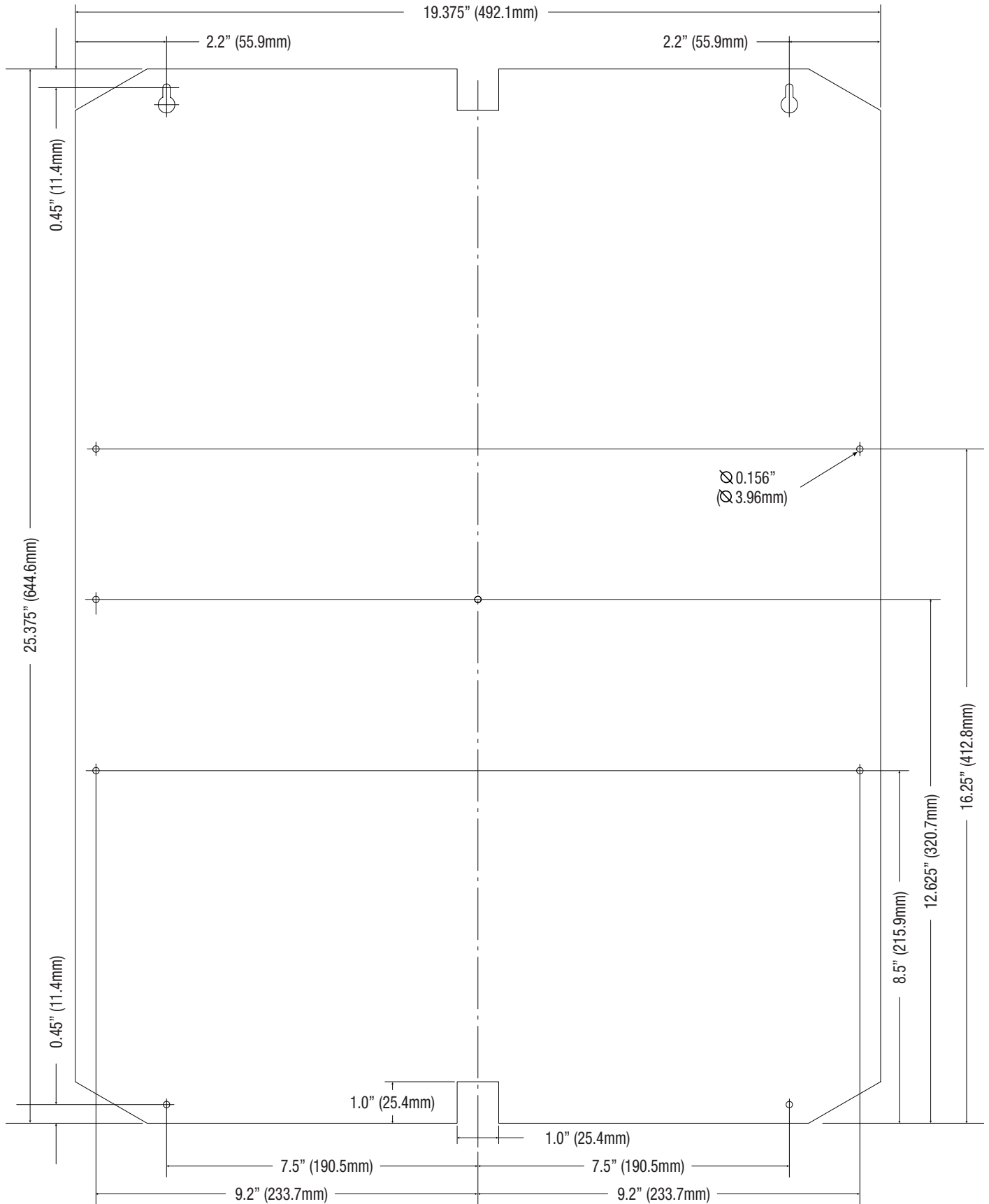
THC1 Dimensions

16.625" x 12.5" x 0.3125" (422.3mm x 317.5mm x 7.9mm)



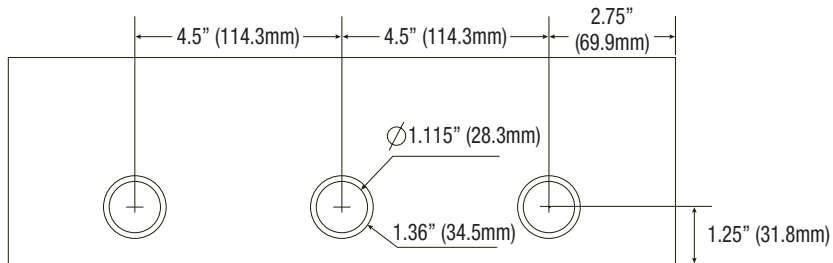
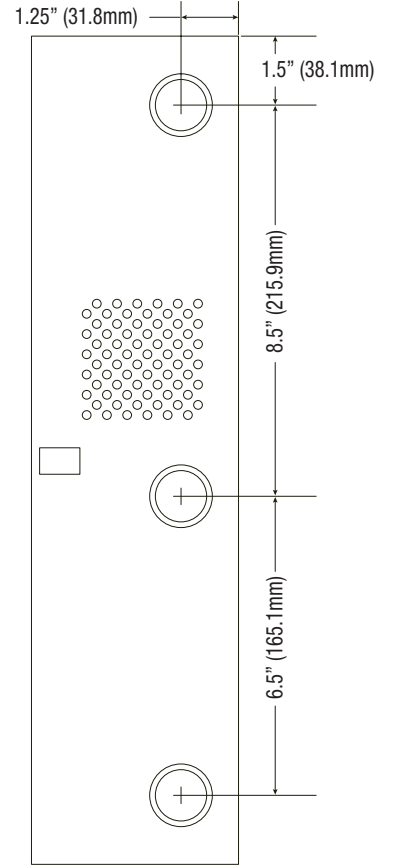
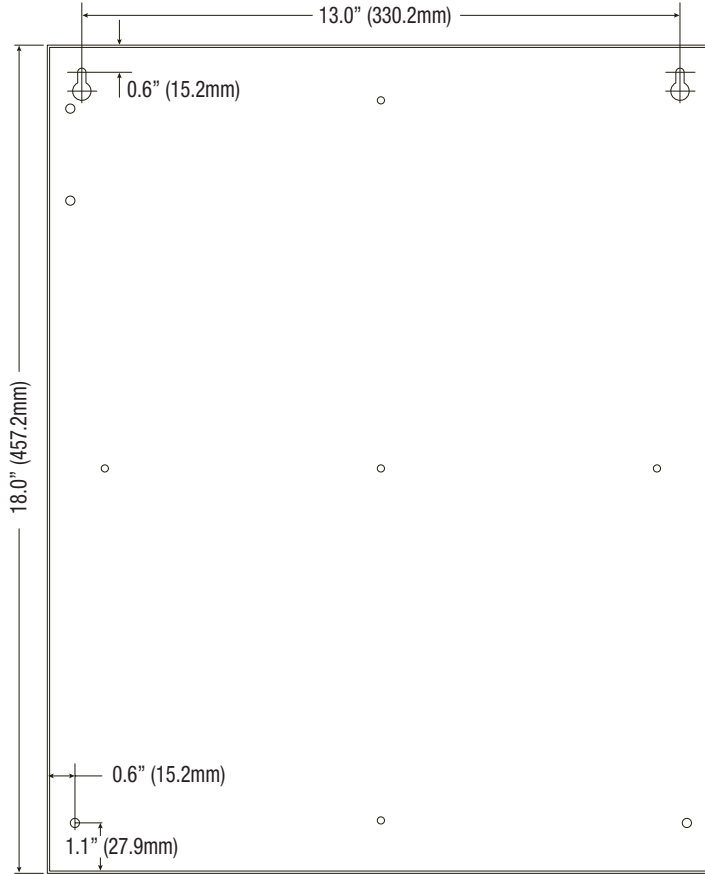
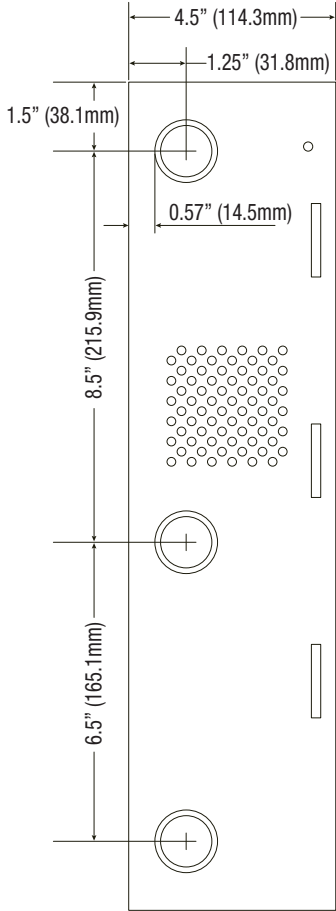
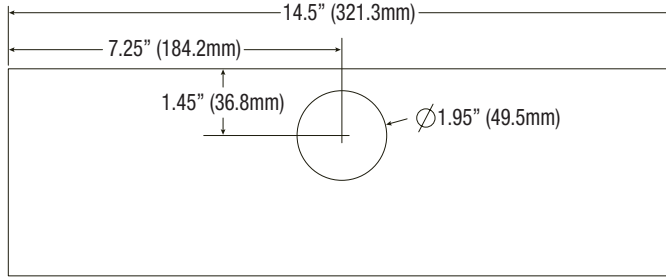
THC2 Dimensions

25.375" x 19.375" x 0.325" (644.5mm x 482.6mm x 8.3mm)



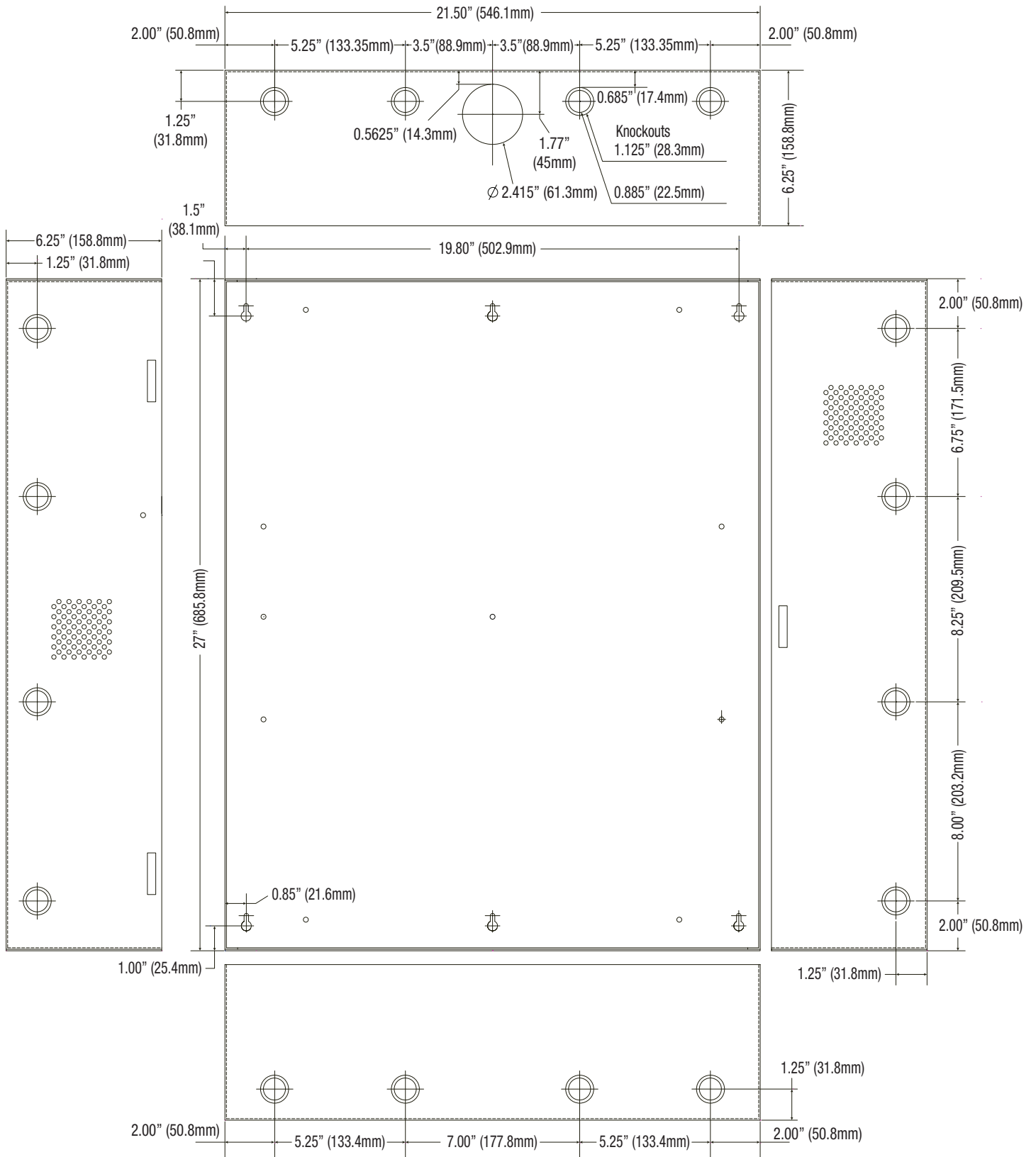
Trove1HC1 Enclosure Dimensions (H x W x D):

18" x 14.5" x 4.625" (457mm x 368mm x 118mm)



Trove2HC2 Enclosure Dimensions (H x W x D):

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



Hartmann Controls is not responsible for any typographical errors.

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