

TRIVE™

Access & Power Integration

Trove2BH2

- Trove2 enclosure with Altronix/Bosch backplane (TBH2)

TBH2

- Altronix/Bosch backplane only

TBHD2

- Bosch door backplane only

Installation Guide



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Rev. TBH110419

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Trove2BH2 accommodates various combinations of Bosch boards with or without Altronix accessories for access control systems.

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.

Specifications:

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

Trove2BH2

Trove2 enclosure with TBH2 Altronix/Bosch backplane

- Includes: tamper switch, cam lock, 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).

TBH2

Altronix/Bosch backplane only

- Includes mounting hardware.
Dimensions (H x W x D): 25.375" x 19.375" x 0.3125" (644.5mm x 482.6mm x 7.9mm).

TBH2 accommodates a combination of the following:

Altronix Open Frame Transformers:

- One (1) T16100 or T1618300.

Altronix Modules:

- Four (4) MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PD16W, PD16WCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6, VR10.

Bosch Modules:

- Two (2) B520 power supplies.
- One (1) D7412GV4, D9412GV4, B8512G, B9512G controller.
- Up to six (6) B299, B308, B426, B450, B901, D125B, D129, D185, D192G, D8128D, D8129, D8130, ICP-SDI-9114
- Up to nine (9) B208, B600, B800, D132A, D8125/MUX

TBHD2

Bosch door backplane only

- Fits Altronix Trove2 enclosure.
Dimensions (H x W x D): 23.75" x 18.125" x 0.3125" (603.3mm x 460.4mm x 7.9mm).

TBHD2 accommodates a combination of the following:

Altronix Modules:

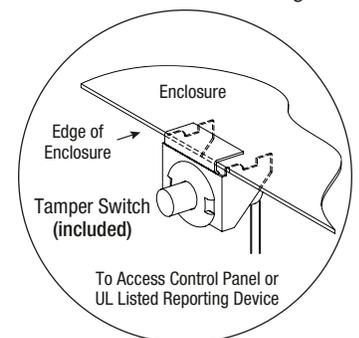
- Two (2) MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PD16W, PD16WCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6, VR10.

Bosch Modules:

- One (1) D7412GV4, D9412GV4, B8512G, B9512G controller.
- Up to eleven (6) B208, B299, B308, B426, B450, B600, B901, D125B, D129, D132A, D185, D192G, D8125/MUX, D8128D, D8129, D8130, ICP-SDI-9114.

Installation Instructions for Trove2:

1. Remove backplane from enclosure prior to mounting (do not discard hardware).
2. Mark and predrill holes in the wall to line up with the top keyholes in the enclosure. Install the upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the screws; level and secure. Mark the position of the lower holes. Remove the enclosure. Drill the lower holes and install the fasteners. Place the enclosure's upper keyholes over the upper screws. Install the lower screws and make sure to tighten all screws
(Enclosure Dimensions, pg. 4).
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/Bosch boards to backplane, refer to pages 3-5.



Installation Instructions for Altronix Sub-Assemblies to TBH2 and TBHD2:

Remove backplane from enclosure prior to mounting (do not discard hardware).

1. Insert screw (provided) into hole configuration (A) from the backside of backplane (*Fig. 2a, pg. 3*).
Screw spacer onto screws, repeat for additional three (3) board mounting holes.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (*Fig. 2a, pg. 3*).

Installation Instructions for Altronix Open Frame Transformers to TBH2:

Mounting Altronix T1618300 Transformer:

1. Mount Altronix T1618300 transformer to backplane and connect it as follows (*Fig. 2, pg. 4*):
 - a. Place one metal washer on the bolt, then push bolt through the square hole from the rear of backplane (*Fig. 2b, pg. 4, Step 1*).
 - b. Place first rubber washer on the bolt (*Fig. 2b, pg. 4, Step 2*).
 - c. Mount T1618300 on the bolt (*Fig. 2b, pg. 4, Step 2*).
 - d. Place second rubber washer on the bolt. Mount concave metal plate on top of the rubber washer as shown on *Fig. 2b, pg. 4, Step 2*.
 - e. Place second metal washer on the bolt. Tighten assembly with the nut (*Fig. 2b, pg. 4, Step 2*).
 - f. T1618300's primary leads are black and white. Connect AC power 115VAC, 50/60Hz to them.
 - g. Measure output voltage across the secondary leads before connecting devices. This helps avoiding potential damage.
 - Yellow and Brown for 16VAC (open circuit voltage @ 115VAC approx. 16.6VAC).
 - Black and Brown for 18VAC (open circuit voltage @ 115VAC approx. 18.8VAC).
 - h. Connect 16VAC device(s) to Yellow and Brown leads or 18VAC device(s) to Black and Brown leads.

Mounting Altronix T16100 Transformer:

1. Insert screws (provided) into hole configuration (B) from the backside of backplane (*Fig. 2a, pg. 3*)
2. Mount Altronix T16100 transformer to backplane using two locking nuts (*Fig. 2, pg. 4*).
 - a. Measure output voltage across the secondary leads (yellow and blue) before connecting devices. This helps avoiding potential damage.
 - b. Connect 16VAC device to be powered to the secondary leads (yellow and blue)

Installation Instructions for Bosch Boards to TBH2 and TBHD2:

Mounting Bosch B520 Power Supply:

1. Fasten spacers (provided) into top pem configuration (A) of backplane (*Fig. 3, pg. 5*).
Alternatively: insert screw (provided) into bottom hole configuration (A) from the backside of backplane (*Fig. 3, pg. 5*).
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (*Fig. 3a, pg. 5*).
Screw spacer onto screws, repeat for additional three (3) board mounting holes.

Mounting Bosch B8512G/B9512G IP Control Panels:

1. Fasten lock nuts onto top two (2) pems, leaving enough space to accommodate B8512G/B9512G.
2. Slide top mounting holes of B8512G/B9512G over pems of backplane configuration (B) (*Fig. 3, pg. 5*).
3. Fasten 5/16" pan head screw (provided) through mounting hole of B8512G/B9512G.

Mounting Bosch B299, B308, B426, B450, B901, D125B, D129, D192G, D8125MUX, D8128D, D8129, D8130, ICP-SDI-9114 or B208, B600, D132A:

1. Align screws in mounting bracket of Bosch expansion module with keyholes in TBH2 and TBHD2.
Slide the expansion module down and make sure to tighten the screws from behind the backplane (*Fig. 3, pg. 5, Fig. 5, pg. 7*).

Fasten TBH2 and/or TBHD2 backplane(s) to Trove2 enclosure utilizing pan head screws (provided).

TBH2 Altronix Transformers and Sub-Assemblies Position Chart:

Altronix Board or Transformer	Pem Mounting
T1618300	(A)
T16100	(B)
MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PD16W, PD16WCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6	(C)

Fig. 2

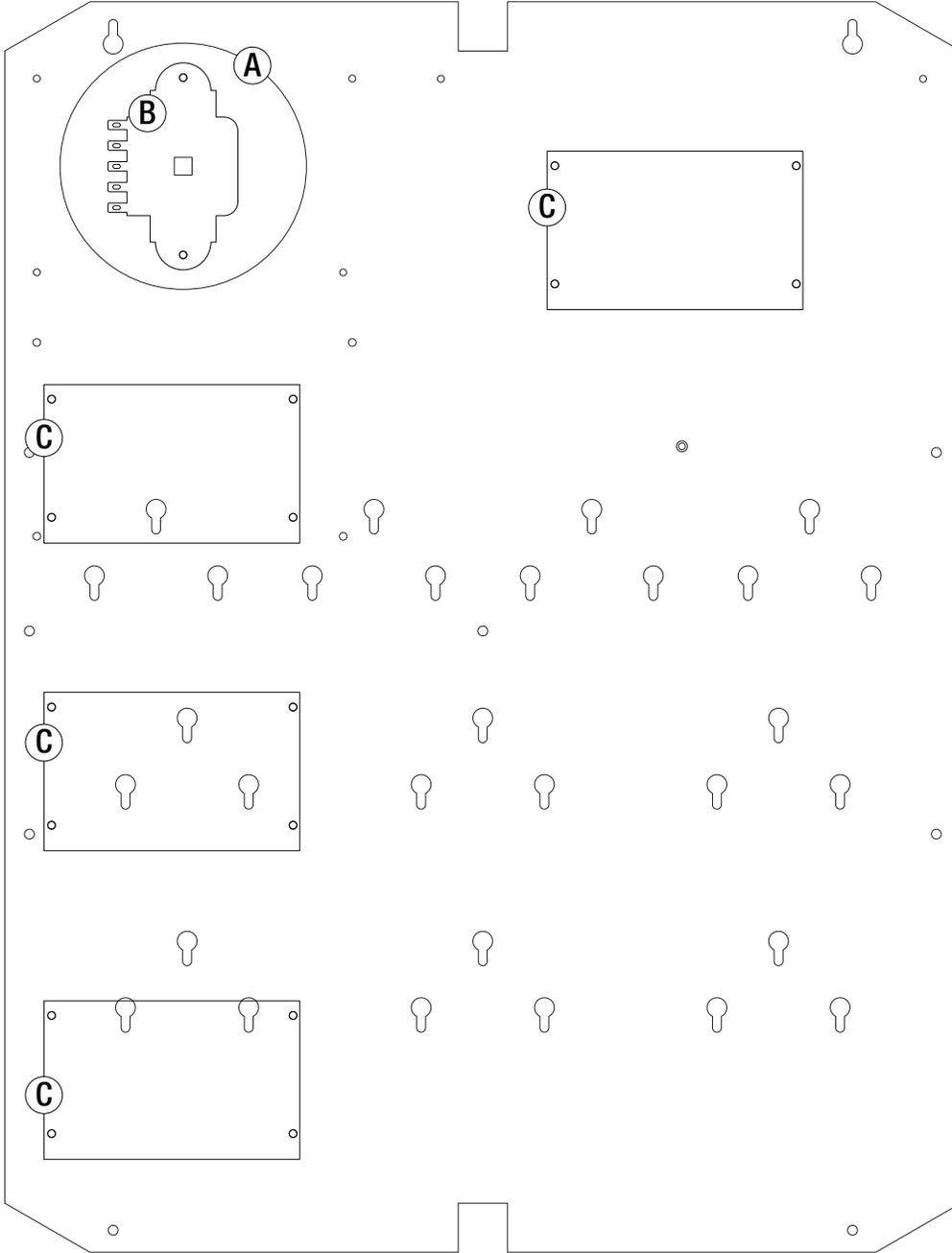
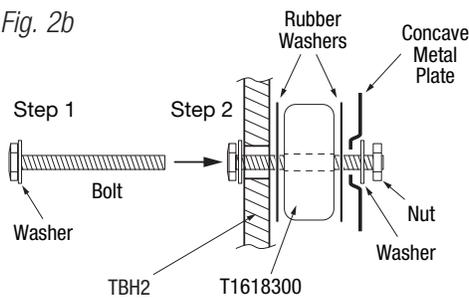
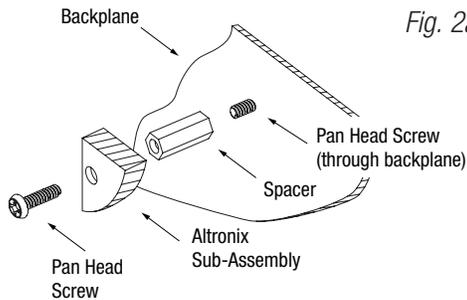


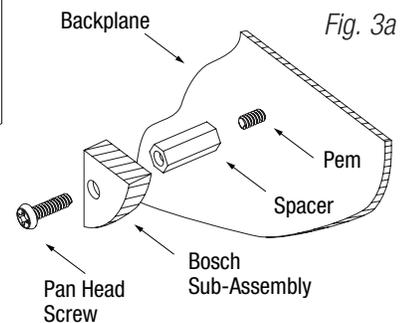
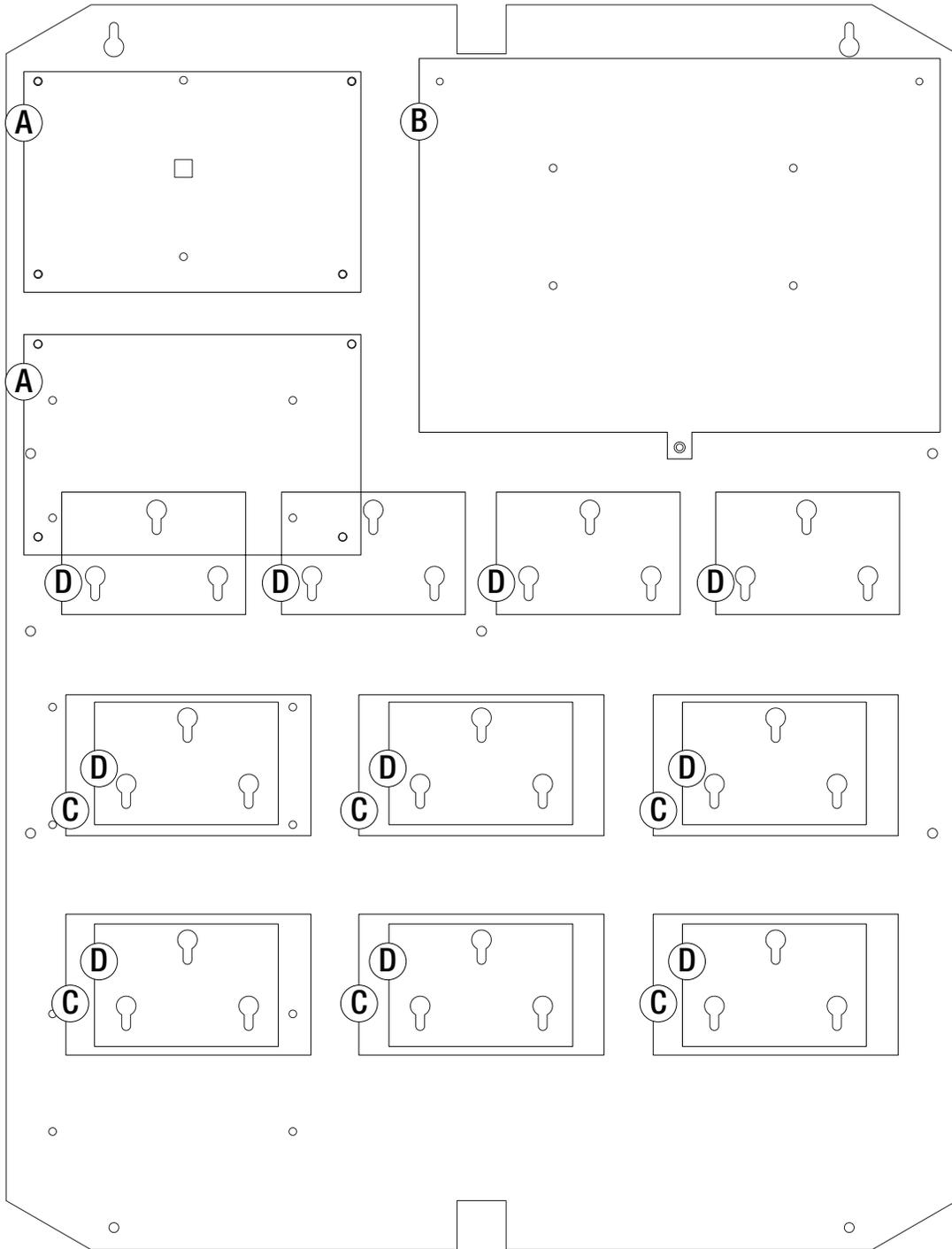
Fig. 2a Fig. 2b



TBH2 Bosch Boards Position Chart:

Bosch Board	Pem Mounting
B520	(A)
B8512G, B9512G, D7412GV4, D9412GV4	(B)
B299, B308, B426, B450, B901, D125B, D129, D192G, D8125MUX, D8128D, D8129, D8130, ICP-SDI-9114	(C)
B208, B600, D132A	(D)

Fig. 3



TBHD2 Altronix Sub-Assemblies Position Chart:

Altronix Board or Transformer	Pem Mounting
MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PD16W, PD16WCB, PDS8, PDS8CB, PDS16, PDS16CB, VR6	(A)

Fig. 4

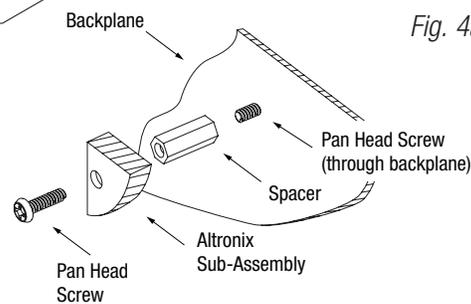
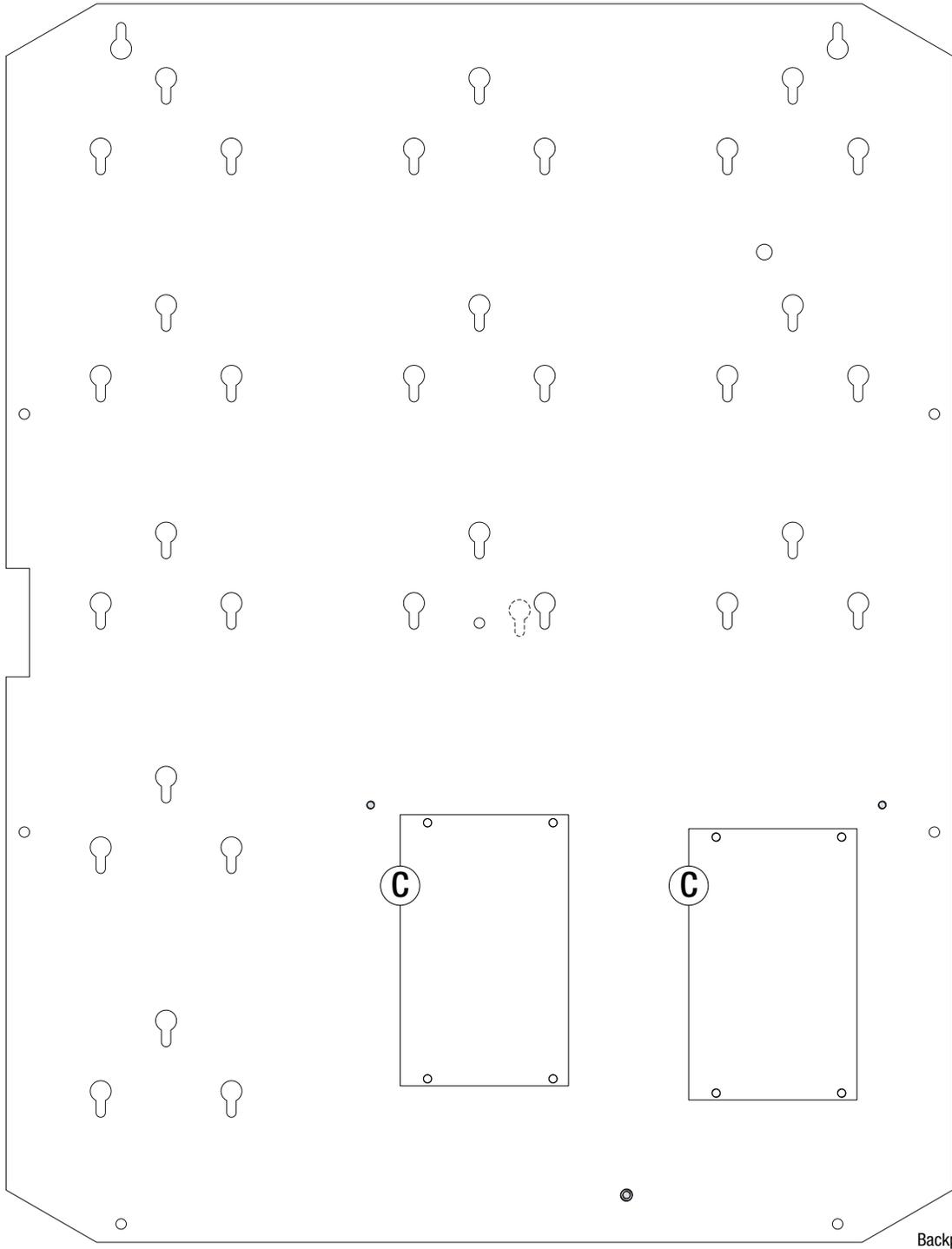
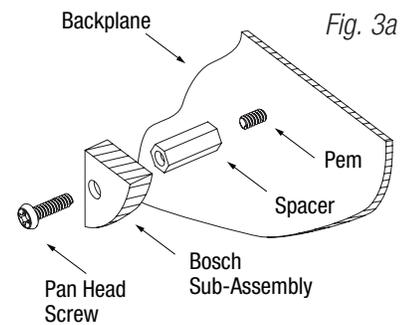
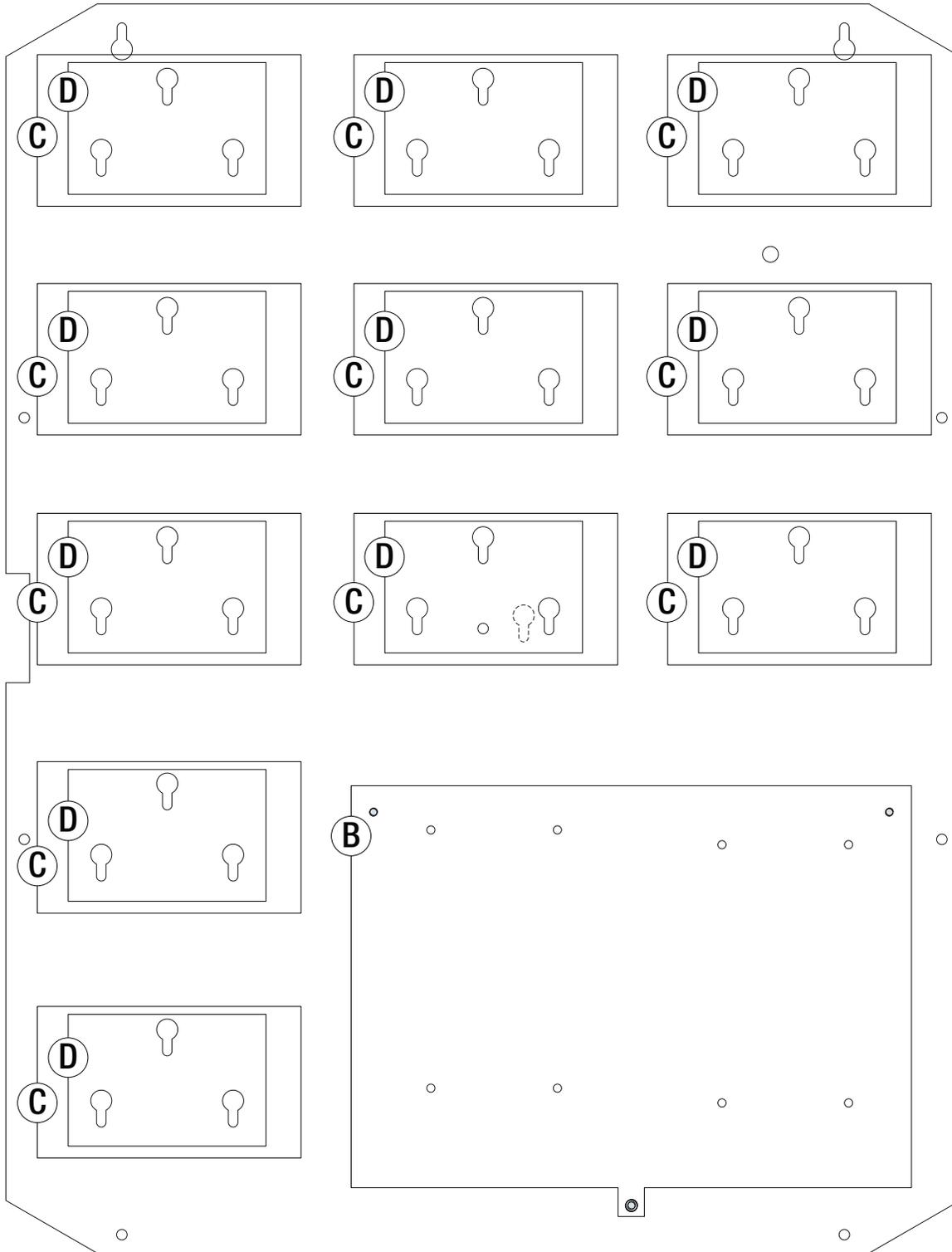


Fig. 4a

Fig. 5 - TBHD2 Bosch Boards Configuration

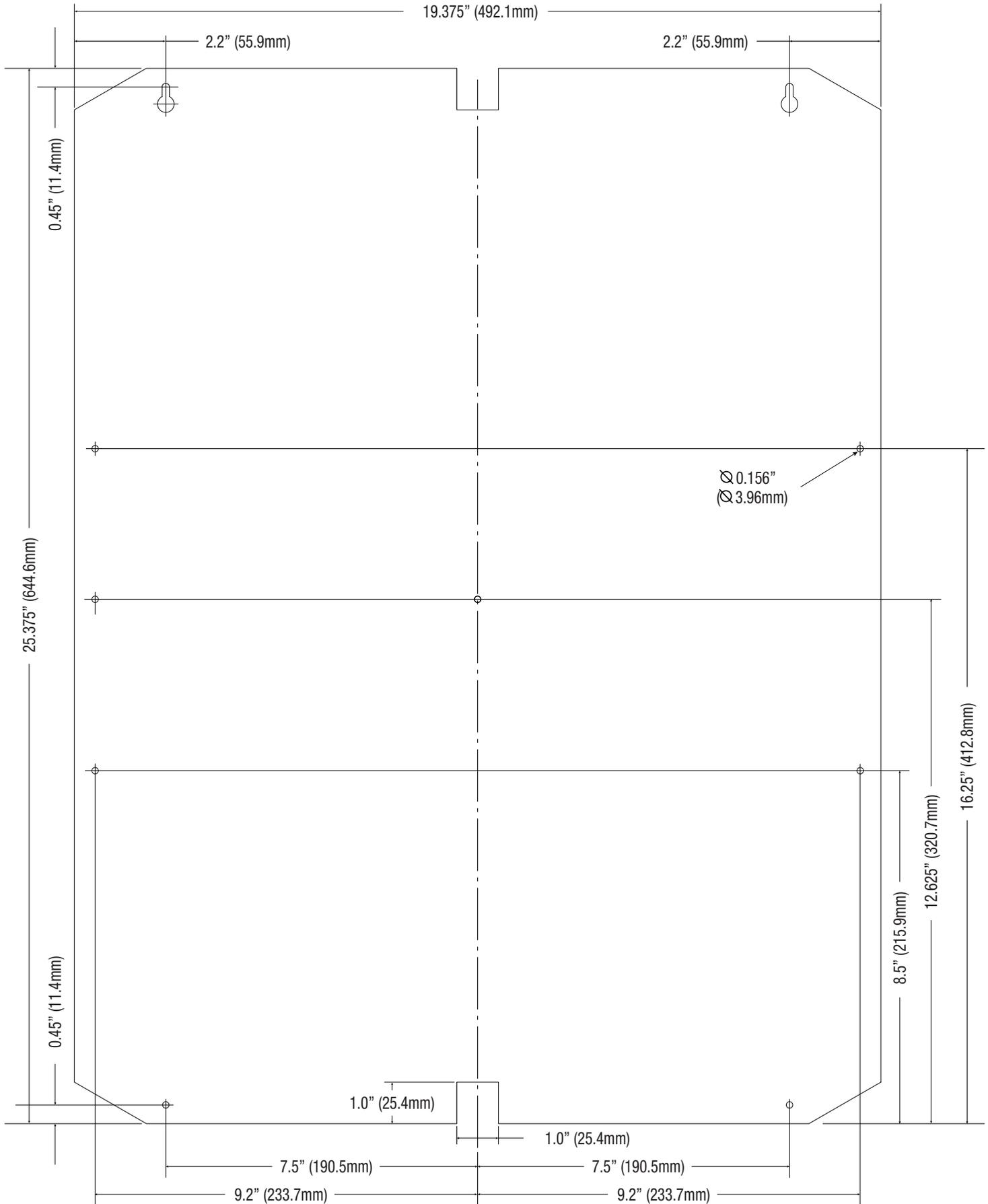


Notes:

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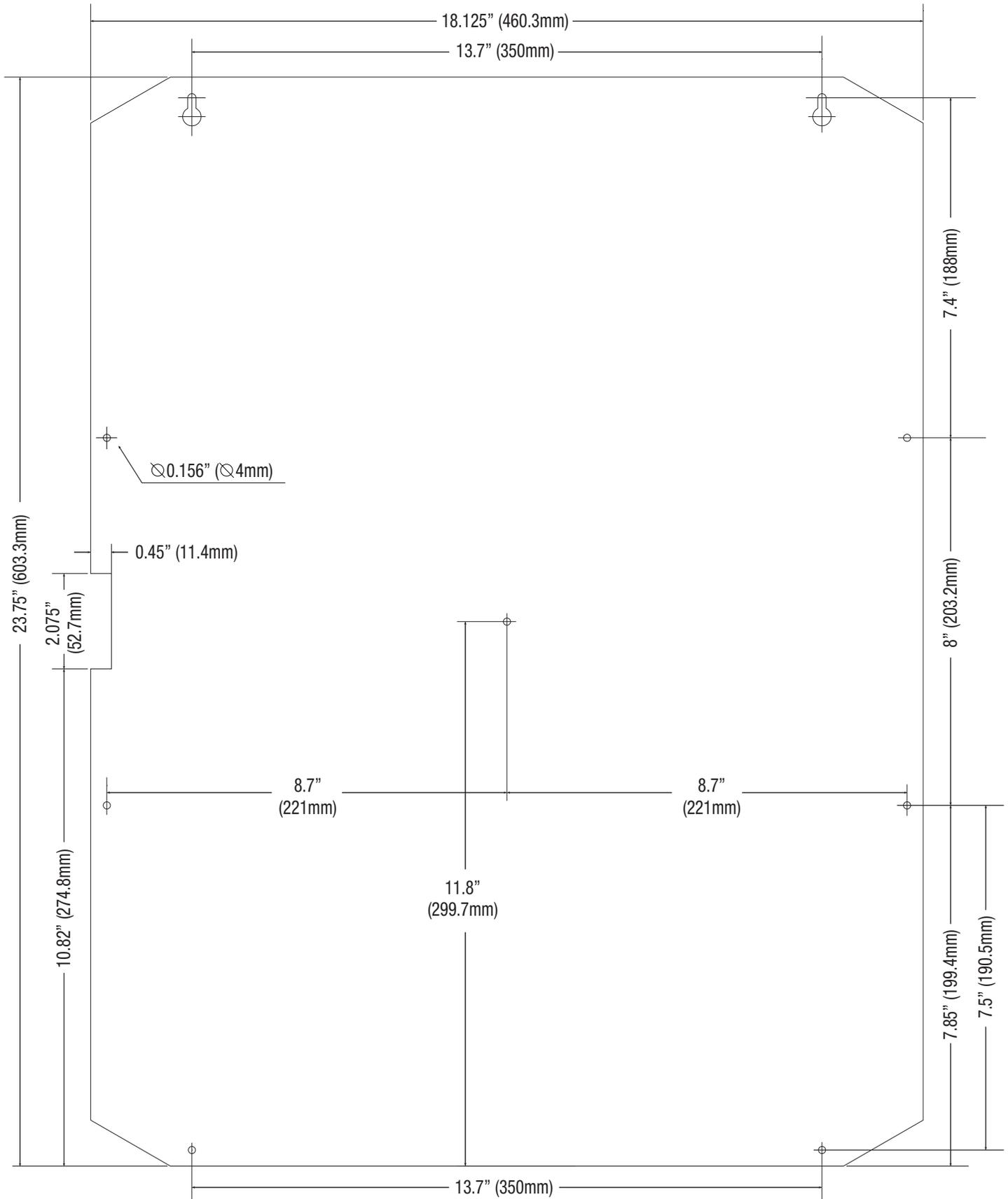
TBH2 Dimensions

25.375" x 19.375" x 0.3125" (644.5mm x 482.6mm x 7.9mm).

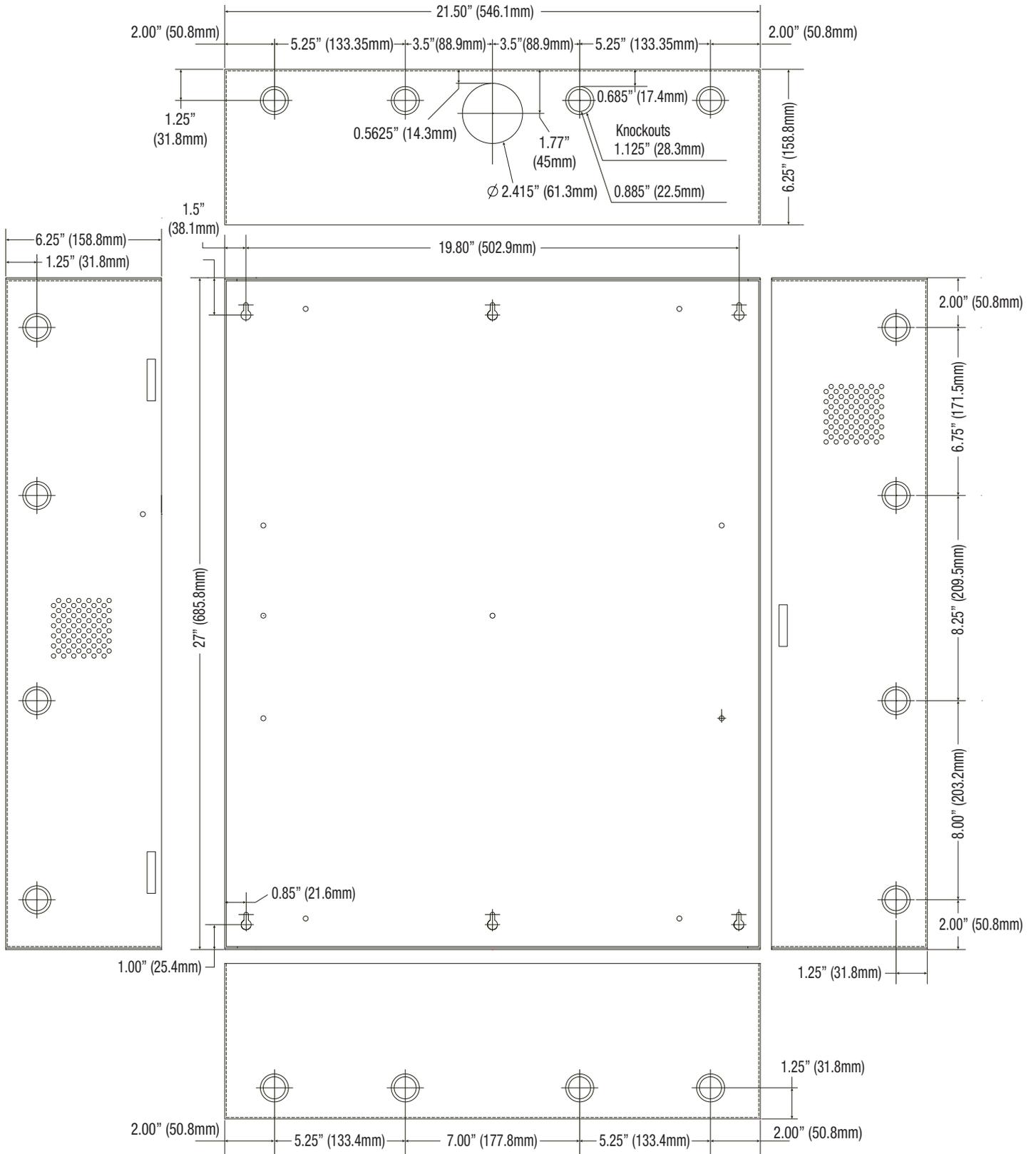


TBHD2 Dimensions

23.75" x 18.125" x 0.3125" (603.3mm x 460.3mm x 7.9mm).



Trove2 Enclosure Dimensions (H x W x D approximate):
 27.25" x 21.75" x 6.5" (692.15mm x 552.5mm x 165.1mm)



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

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