

Access & Power Integration

Trove2JC2

- Trove2 enclosure with Altronix/Johnson Controls backplane (TJC2)

TJC2

- Altronix/Johnson Controls backplane only

Trove3JC3

- Trove3 enclosure with Altronix/Johnson Controls backplane (TJC3)

TJC3

- Altronix/Johnson Controls backplane only

Installation Guide



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Rev. TJC072820

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove2JC2 and Trove3JC3 accommodate various combinations of Johnson Controls boards with or without Altronix power supplies and sub-assemblies for access systems.

Specifications:

Trove2JC2

Trove2 enclosure with TJC2 Altronix/Johnson Controls backplane

- Includes: tamper switch, cam lock and mounting hardware.

Enclosure Dimensions (H x W x D):

27.25" x 21.75" x 6.5" (692.15mm x 552.5mm x 165.1mm).

TJC2

Altronix/Johnson Controls 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).

TJC2 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) or VR6.

Johnson Controls Modules:

- One (1) CK721-A.
- Up to five (5) RDR2SA
- One (1) MHUBX8.

Trove3JC3

Trove3 enclosure with TJC3 Altronix/Johnson Controls backplane

- Includes: two (2) tamper switches, cam lock and mounting hardware.

Enclosure Dimensions (H x W x D):

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

TJC3

Altronix/Johnson Controls backplane only

- Includes mounting hardware.

Dimensions (H x W x D):

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

TJC3 accommodates a combination of the following:

Altronix Modules:

- Up to two (2) AL400ULXB2, AL600ULXB, AL1012ULXB, AL1024ULXB2, eFlow4NB, eFlow6NB, eFlow102NB, or eFlow104NB.
- Up to two (2) ACM8(CB), ACMS8(CB), ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB) or VR6.

Johnson Controls Modules:

- One (1) CK721-A.
- Up to eight (8) RDR2SA
- Up to three (3) MHUBX8.

Battery Backup:

- Trove2 enclosure accommodates up to two (2) 12VDC/12AH batteries.
- Trove3 enclosure accommodates up to four (4) 12VDC/12AH batteries.

For more detailed information refer to **Trove Installation Guide, Rev. 101817**.

Hardware:

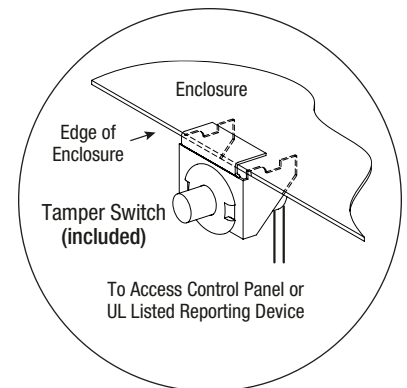
 Metal or Nylon Spacer |  5/16" Pan Head Screw |  Lock Nut

Installation Instructions for Trove2 and Trove3:

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(es) (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.
- Mount Altronix/Johnson Controls boards to backplane, *refer to pages 3-4*.

Fig. 1



TJC2 Sub-Assembly Position Chart for the Following Models:

Altronix Power Supplies/Sub-Assemblies	
Sub-Assembly	Pem Mounting
eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB	(A)
ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), VR6	(B)
Johnson Controls Modules	
Module	Pem Mounting
CK721-A, CK722	(C)
MHUBX8 (Inside case and board only)	(D)
RDR2SA, RDRS8, 132016, 1804	(E)

Installation Instructions for Sub-Assemblies to TJC2:

Altronix Power Supplies/Chargers and/or Sub-Assemblies:

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix Power Supply/Charger or Altronix Sub-Assembly boards (positions (A) and (B), *Fig. 2, pg. 3*). Use nylon spacers for the upper two mounting holes in the power supply board. Use metal spacers for the bottom mounting holes to provide sufficient grounding for the board.
2. Affix boards to spacers (*Fig. 2a, pg. 3*) by using mounting screws (provided). Make sure that boards are locked onto spacers.
3. For detailed information about installing and connecting Altronix sub-assemblies refer to the individual Installation Guides and **Trove Installation Guide, Rev. 101817**.

Johnson Controls Modules:

4. CK721-A, CK722, RDR2SA, RDRS8, 132016, 1804:

- a) Fasten DIN Rail (not included) to pem spacers, utilizing 5/16" pan head screws (provided) (*Fig. 2, pg. 3*).
- b) Mount CK721-A, CK722, RDR2SA, RDRS8, 132016 or 1804 to DIN Rail (*Fig. 2, pg. 3*).

5. MHUBX8 (Inside case and board only):

- a) TJC2 allows to mount MHUBX8 with or without its protective case. Please see *Fig. 2, pg. 3*, mounting position (D) for options.
- b) When mounting MHUBX8 with protective case, use 5/16" screws only.
When mounting MHUBX8 without protective case, use 5/16" screws and spacers (provided) (*Fig. 2a, pg. 3*).

6. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Fig. 2

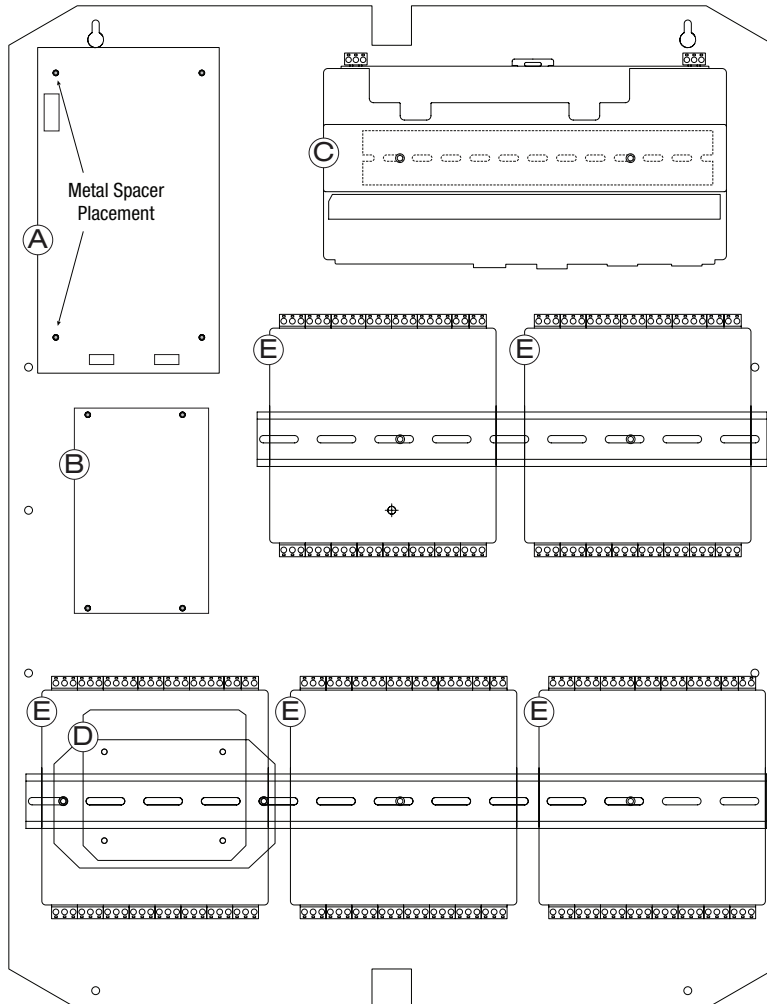
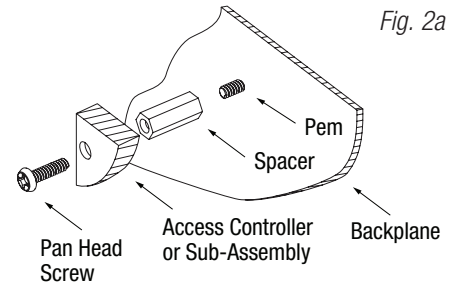


Fig. 2a



TJC3 Sub-Assembly Position Chart for the Following Models:

Altronix Power Supplies/Sub-Assemblies	
Sub-Assembly	Pem Mounting
eFlow4NB, eFlow6NB, eFlow102NB, eFlow104NB, ACM8(CB), ACMS8(CB)	(A)
ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), VR6	(B)
Johnson Controls Modules	
Module	Pem Mounting
CK721-A, CK722	(C)
MHUBX8 (Inside case and board only)	(D)
RDR2SA, RDRS8, 132016, 1804	(E)

Installation Instructions for Sub-Assemblies to TJC3:

Altronix Power Supplies/Chargers and/or Sub-Assemblies:

1. Fasten spacers (provided) to pems that match the hole pattern for Altronix Power Supply/Chargers or Altronix Sub-Assembly boards (positions (A) and (B), *Fig. 3, pg. 4*). Use nylon spacers for the upper two mounting holes in the power supply board. Use metal spacers for the bottom mounting holes to provide sufficient grounding for the board.
2. Affix boards to spacers (*Fig. 3a, pg. 4*) by using mounting screws (provided). Make sure that boards are locked onto spacers.
3. For detailed information about installing and connecting Altronix sub-assemblies refer to the individual Installation Guides and **Trove Installation Guide, Rev. 101817**.

Johnson Controls Modules:

4. **CK721-A, CK722, RDR2SA, RDRS8, 132016, 1804:**
 - a) Fasten DIN Rail (not included) to pem spacers, utilizing 5/16" pan head screws (provided) (*Fig. 3, pg. 4*).
 - b) Mount CK721-A, CK722, RDR2SA, RDRS8, 132016 or 1804 to DIN Rail (*Fig. 3, pg. 4*).
5. **MHUBX8 (Inside case and board only):**
 - a) TJC3 allows to mount MHUBX8 with or without its protective case. Please see *Fig. 3, pg. 4*, mounting position (D) for options.
 - b) When mounting MHUBX8 with protective case, use 5/16" screws only.
When mounting MHUBX8 without protective case, use 5/16" screws and spacers (provided) (*Fig. 3a, pg. 4*).
6. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Fig. 3

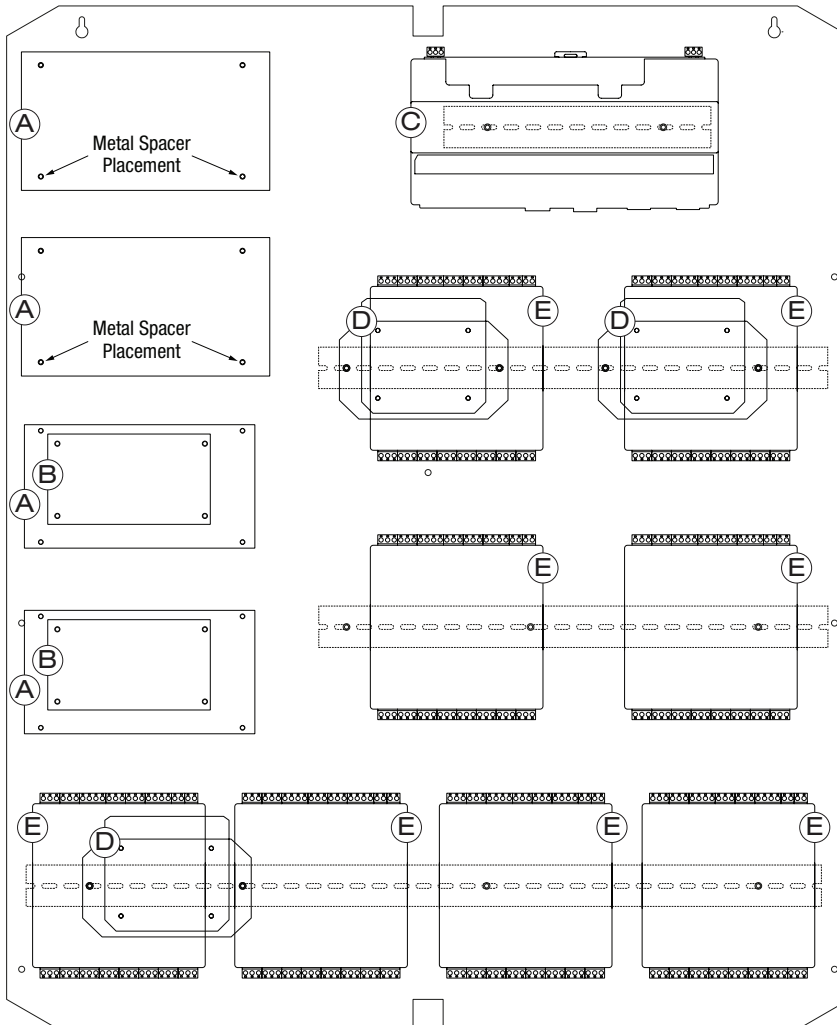
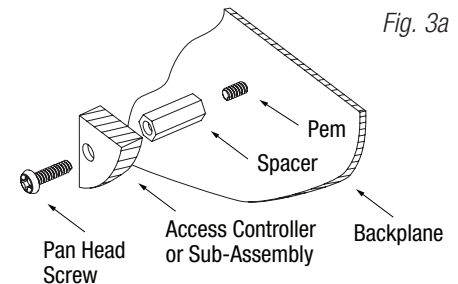
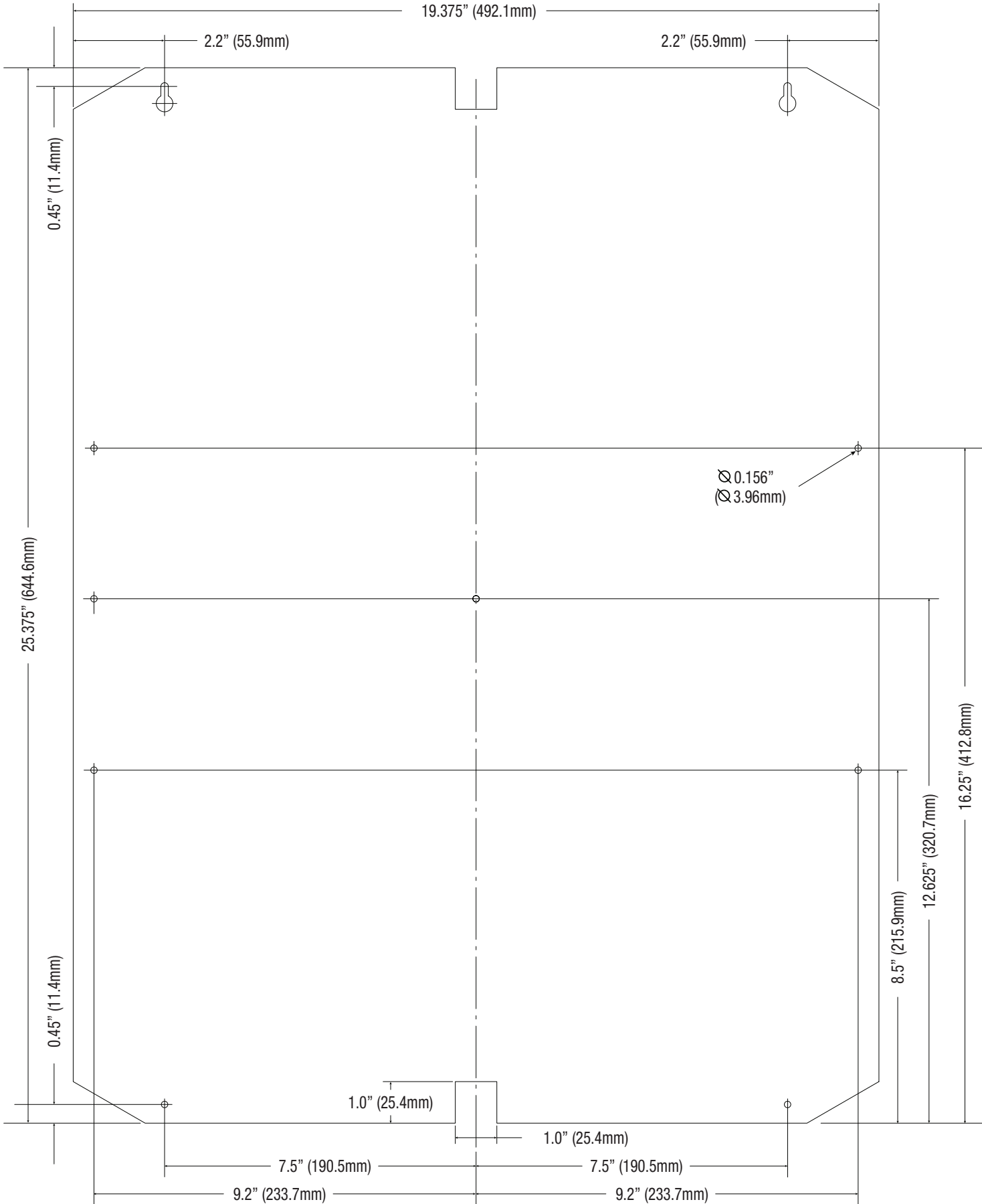


Fig. 3a



TJC2 Dimensions:

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



27.25" x 21.75" x 6.5" (692.15mm x 546.1mm x 165.1mm)

Technical drawing of a rectangular panel, showing dimensions in inches and millimeters.

Top View Dimensions:

- Overall Width: 21.50" (546.1mm)
- Overall Height: 27" (685.8mm)
- Top Edge Mounting Holes (from left): 2.00" (50.8mm), 5.25" (133.35mm), 3.5" (88.9mm), 3.5" (88.9mm), 5.25" (133.35mm), 2.00" (50.8mm)
- Left Edge Mounting Holes (from top): 1.25" (31.8mm), 1.5" (38.1mm)
- Central Mounting Hole: Ø 2.415" (61.3mm)
- Knockouts: 1.125" (28.3mm), 0.885" (22.5mm)
- Other Dimensions: 0.5625" (14.3mm), 1.77" (45mm), 0.685" (17.4mm)

Side View Dimensions:

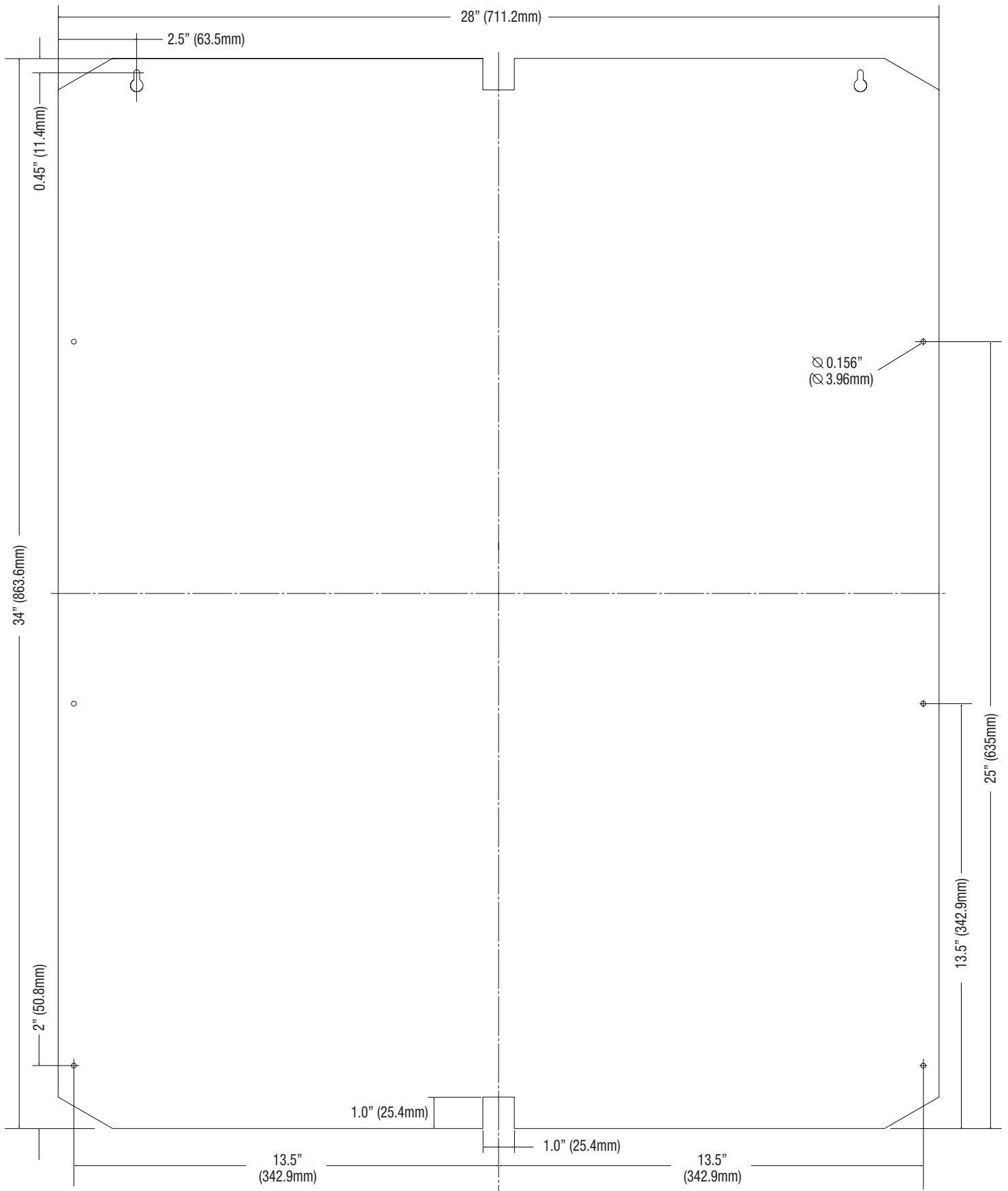
- Overall Width: 19.80" (502.9mm)
- Overall Height: 6.25" (158.8mm)

Detail View Dimensions (Bottom Right):

- Overall Width: 2.00" (50.8mm)
- Overall Height: 2.00" (50.8mm)
- Mounting Holes: 1.25" (31.8mm)

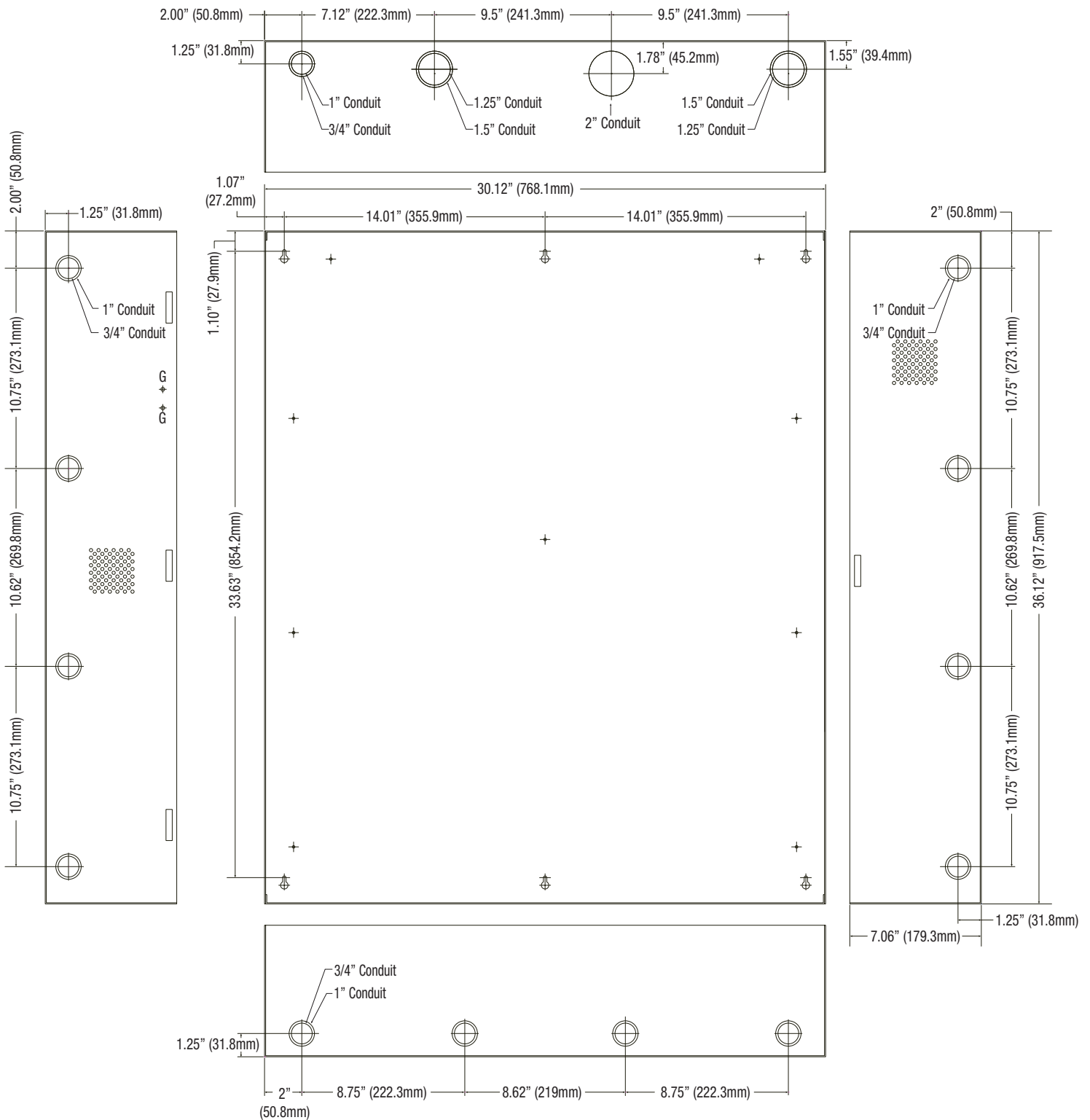
TJC3 Dimensions:

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



Trove3 Enclosure Dimensions (H x W x D approximate):

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



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

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