

# TROVE™

## *Access & Power Integration*



### ***Trove2SS2***

- Trove2 enclosure with Altronix/Lenel-S2 (S2 Security Platform) backplane (TSS2)

### ***TSS2***

- Altronix/Lenel-S2 (S2 Security Platform) backplane only

### ***Trove3SS3***

- Trove3 enclosure with Altronix/Lenel-S2 (S2 Security Platform) backplane (TSS3)

### ***TSS3***

- Altronix/Lenel-S2 (S2 Security Platform) backplane only

# ***Installation Guide***



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Rev. TSS080620

Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_

## Overview:

Trove2SS2 and Trove3SS3 accommodate Lenel-S2 (S2 Security Platform) S2-INST bracket(s) supporting Lenel-S2 (S2 Security Platform) controllers with Altronix power and sub-assemblies for access systems.

## Specifications:

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

### Trove2SS2

*Trove2 enclosure with TSS2 Altronix/Lenel-S2 (S2 Security Platform) 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).

### TSS2

*Altronix/Lenel-S2 (S2 Security Platform) backplane only*

- 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).

### TSS2 accommodates a combination of the following:

#### Altronix Modules:

- Up to two (2) AL400ULXB2, AL400XB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV.
- Up to two (2) ACM8(CB), ACMS8(CB), LINQ8ACM(CB).
- Up to six (6) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.

#### S2:

- One (1) S2-INST mounting kit.

### Trove3SS3

*Trove3 enclosure with TSS3 Altronix/Lenel-S2 (S2 Security Platform) 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).

### TSS3

*Altronix/Lenel-S2 (S2 Security Platform) 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).

### TSS3 accommodates a combination of the following:

#### Altronix Modules:

- Up to two (2) AL400ULXB2, AL400XB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV.
- Up to four (4) ACM8(CB), ACMS8(CB), LINQ8ACM(CB).
- Up to eight (8) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.

#### S2:

- Up to two (2) S2-INST mounting kit.

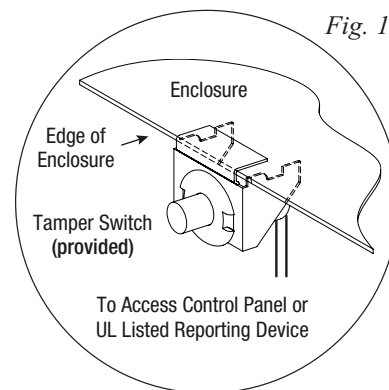
## Agency Listings:

- 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:

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.

1. Remove backplane from enclosure. Do not discard hardware.
2. 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.
3. 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.
4. Mount Altronix/Lenel-S2 (S2 Security Platform) S2-INST mounting kit boards to backplane, refer to Page 3, 4.



## Installation Instructions for Altronix Power Supplies and Sub-Assemblies to TSS2:

1. Fasten standoffs (provided) into pem configuration (A), (B) or (C) of backplane (Fig. 2, pg. 3).
2. Mount boards to standoffs utilizing 5/16" pan head screws (provided) (Fig. 2a, pg. 3).
3. Mount backplane to enclosure with hardware.

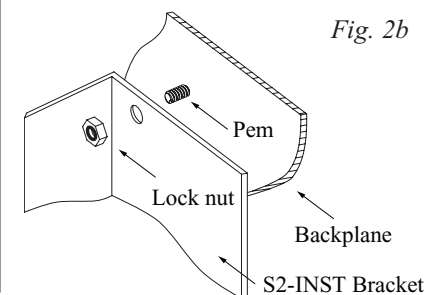
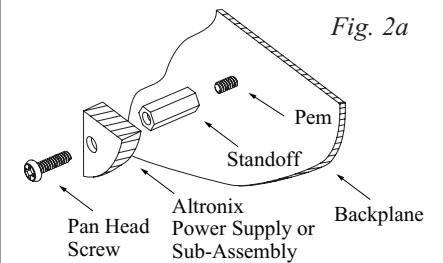
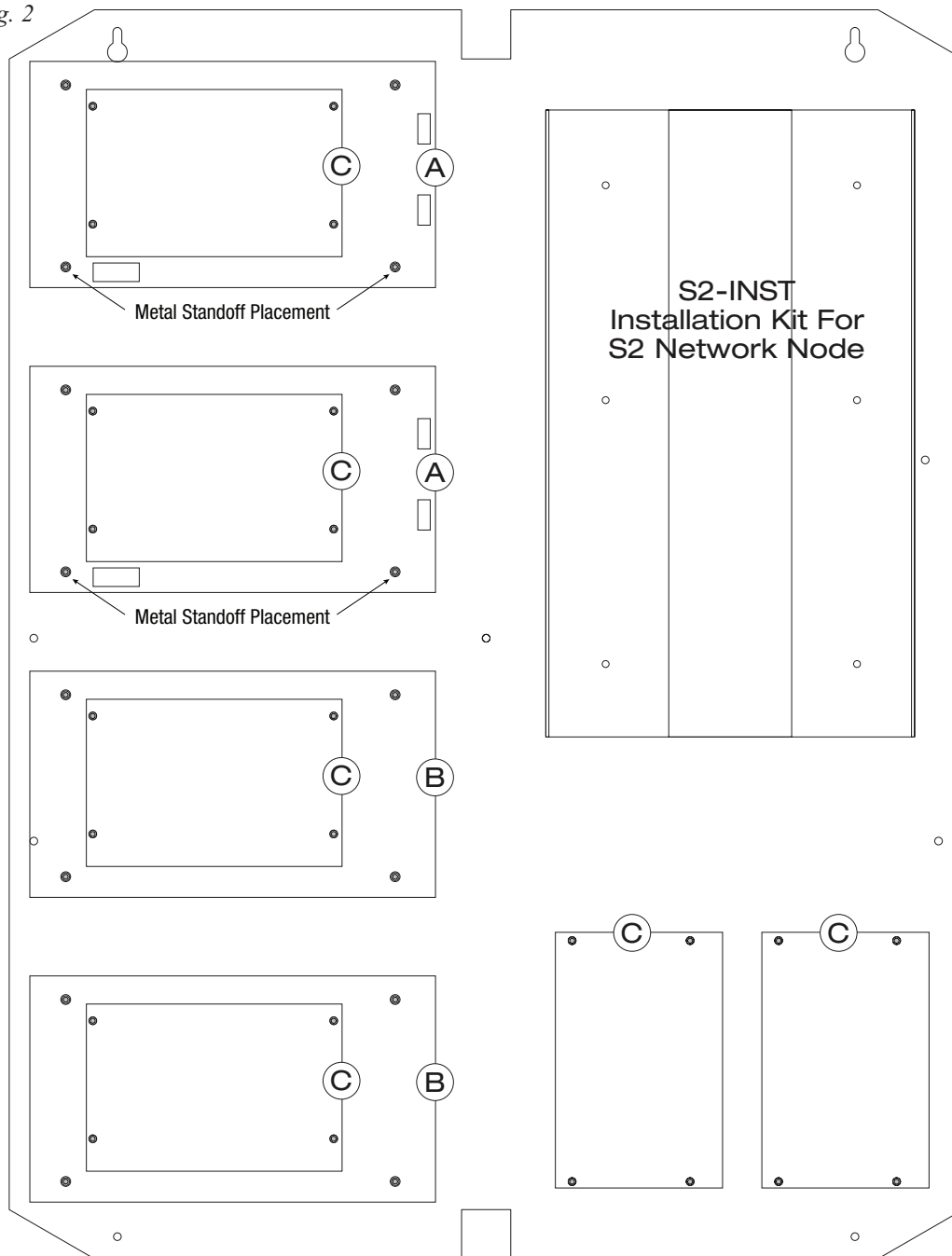
## Access Controller Position Chart for the Following Models:

Altronix Board	Pem Mounting
AL400ULXB2, AL400XB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV	(A)
ACM8, ACM8CB, ACMS8, ACMS8CB, LINQ8ACM, LINQ8ACMCB	(B)
ACM4, ACM4CB, LINQ8PD, LINQ8PDCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, VR6	(C)

## Installation Instructions for S2-INST Bracket to TSS2:

1. Align S2-INST mounting holes with pems on TSS2 (Fig. 2, pg. 3).
2. Attach S2-INST to backplane with lock nuts (provided) (Fig. 2b, pg. 3).
3. Mount backplane to enclosure with hardware.

Fig. 2



### Installation Instructions for Altronix Power Supplies and Sub-Assemblies to TSS3:

1. Fasten standoffs (provided) into pem configuration (A), (B) or (C) of backplane (Fig. 3, pg. 4).
2. Mount boards to standoffs utilizing 5/16" pan head screws (provided) (Fig. 3a, pg. 4).
3. Mount backplane to enclosure with hardware.

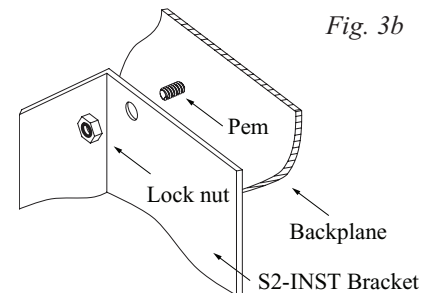
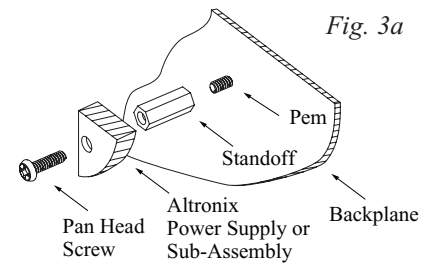
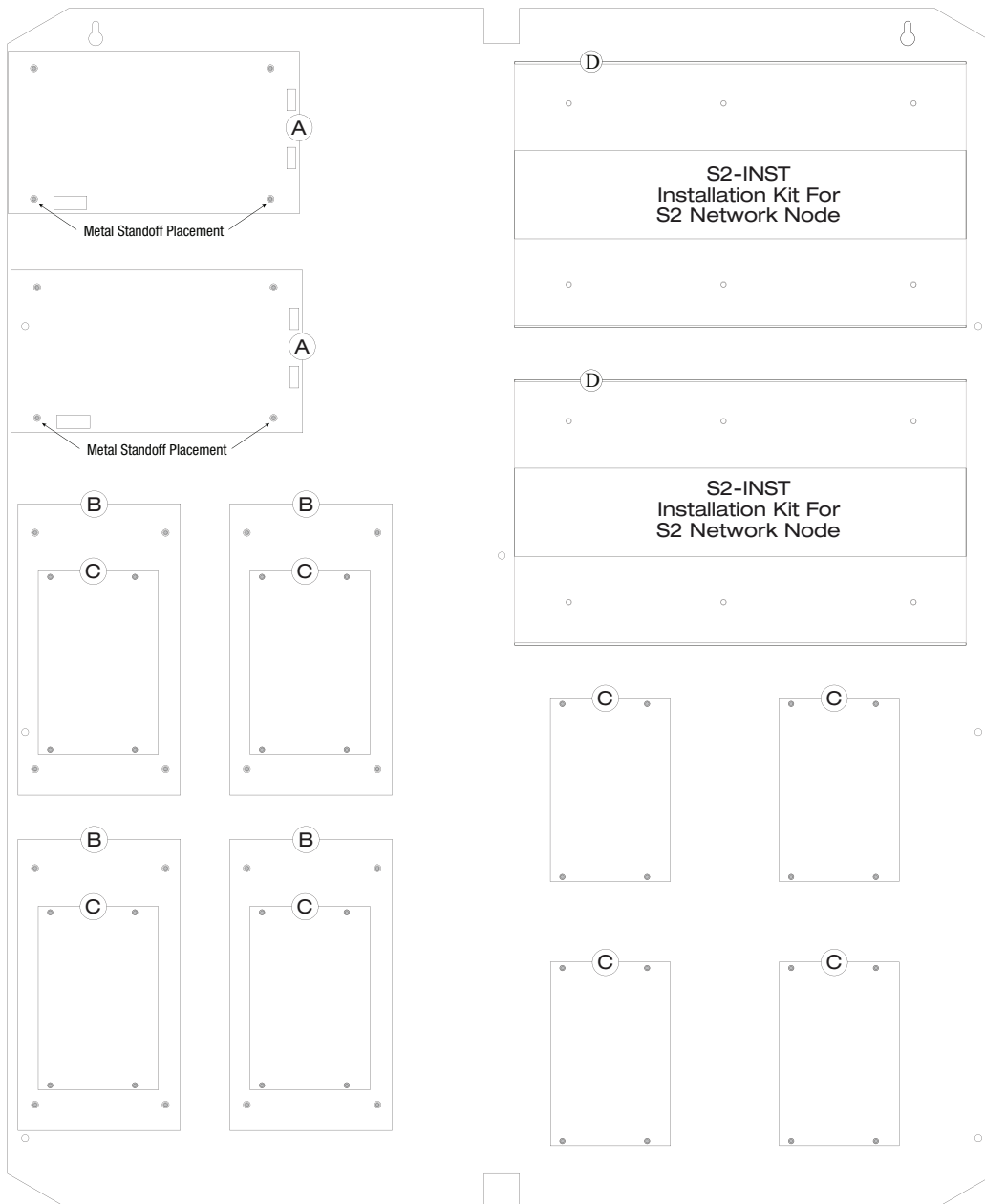
### Access Controller Position Chart for the Following Models:

Altronix Board	Pem Mounting
AL400ULXB2, AL400XB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV	(A)
ACM8, ACM8CB, ACMS8, ACMS8CB, LINQ8ACM, LINQ8ACMCB	(B)
ACM4, ACM4CB, LINQ8PD, LINQ8PDCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, VR6	(C)

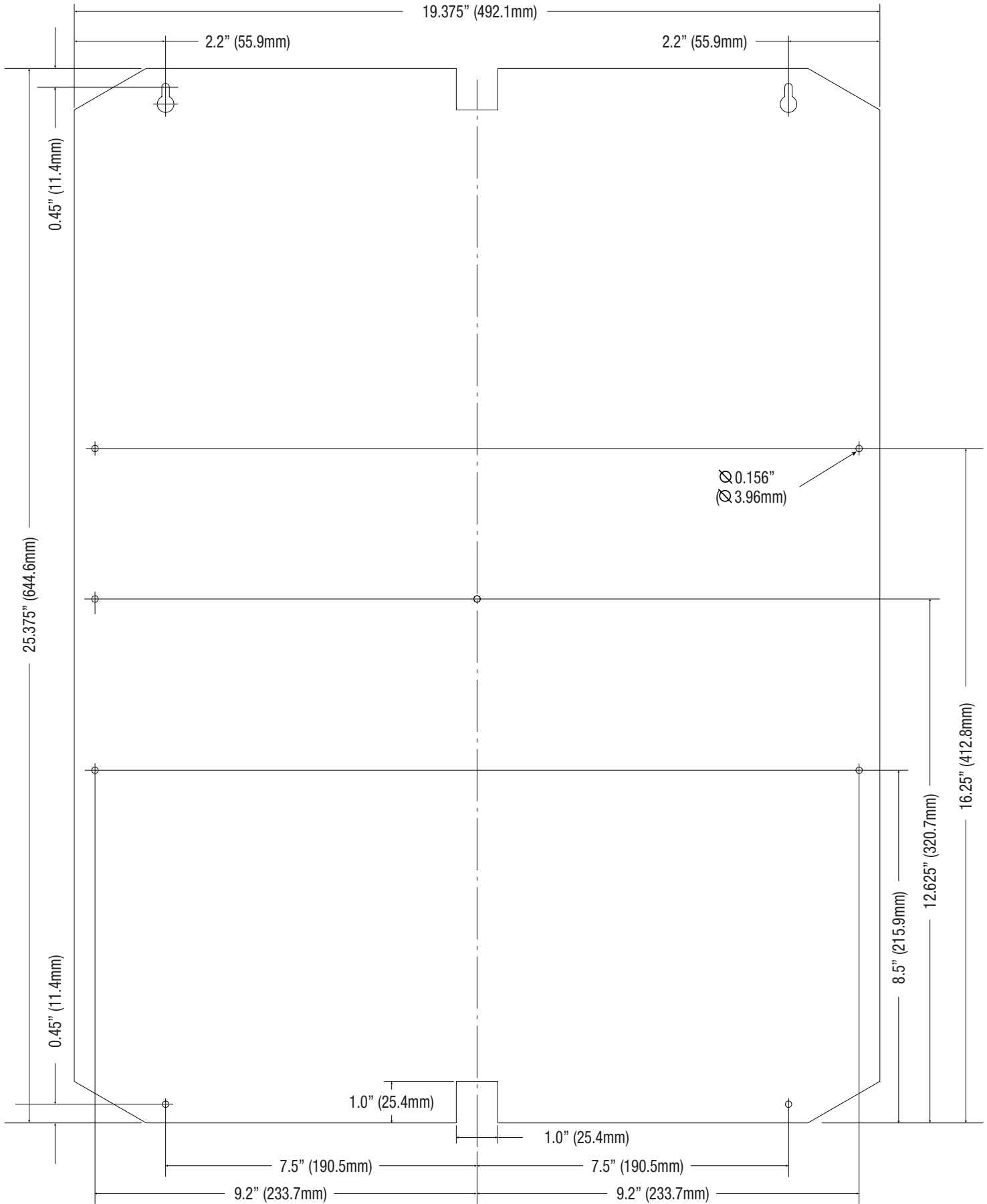
### Installation Instructions for S2-INST Bracket to TSS3:

1. Align S2-INST mounting holes with pems on TSS3 (Fig. 3, pg. 4).
2. Attach S2-INST to backplane with lock nuts (provided) (Fig. 3b, pg. 4).
3. Mount backplane to enclosure with hardware.

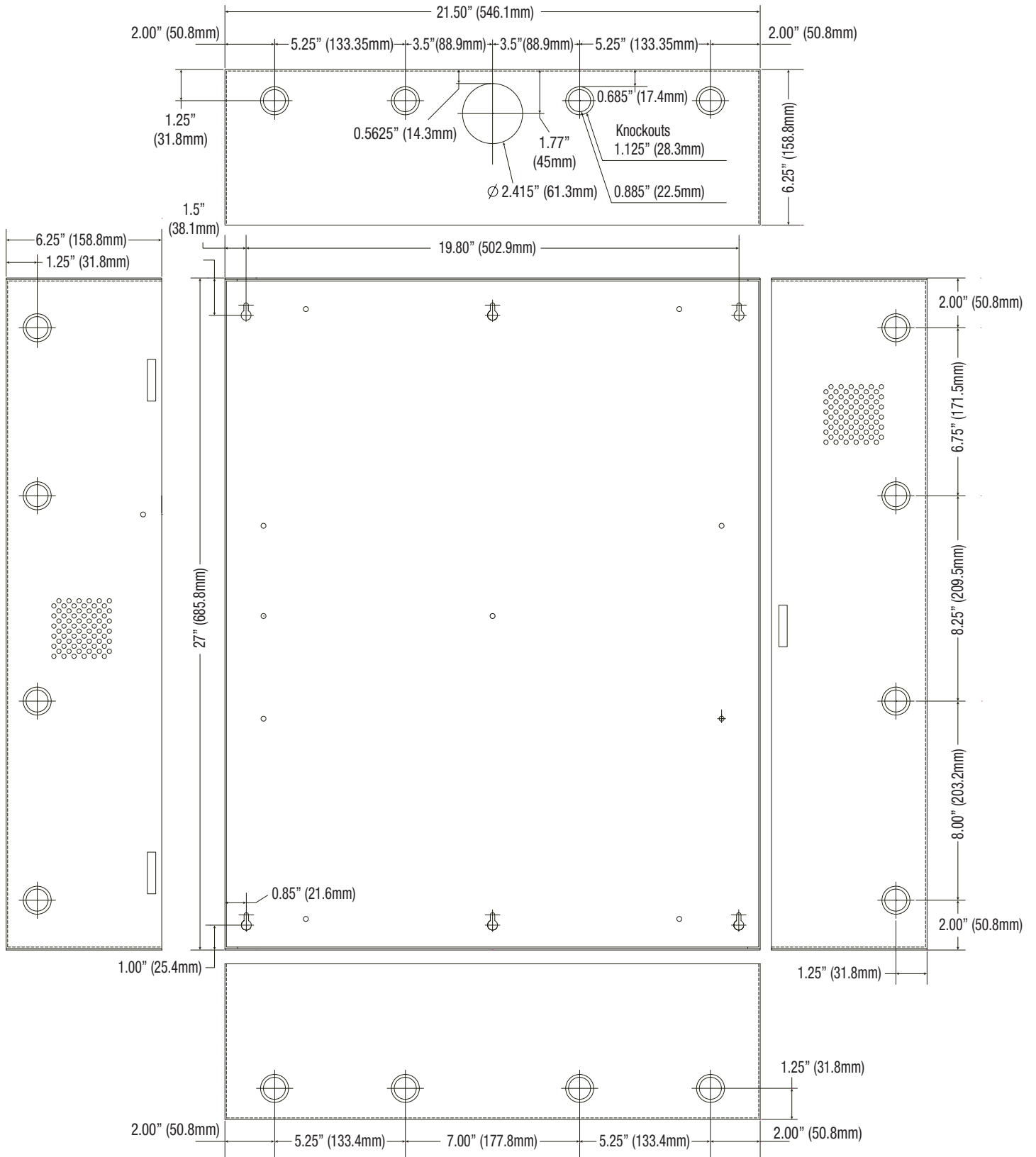
Fig. 3



**TSS2 Dimensions (H x W x D):**  
25.375" x 19.375" x 0.3125" (644.6mm x 492.1mm x 7.9mm)

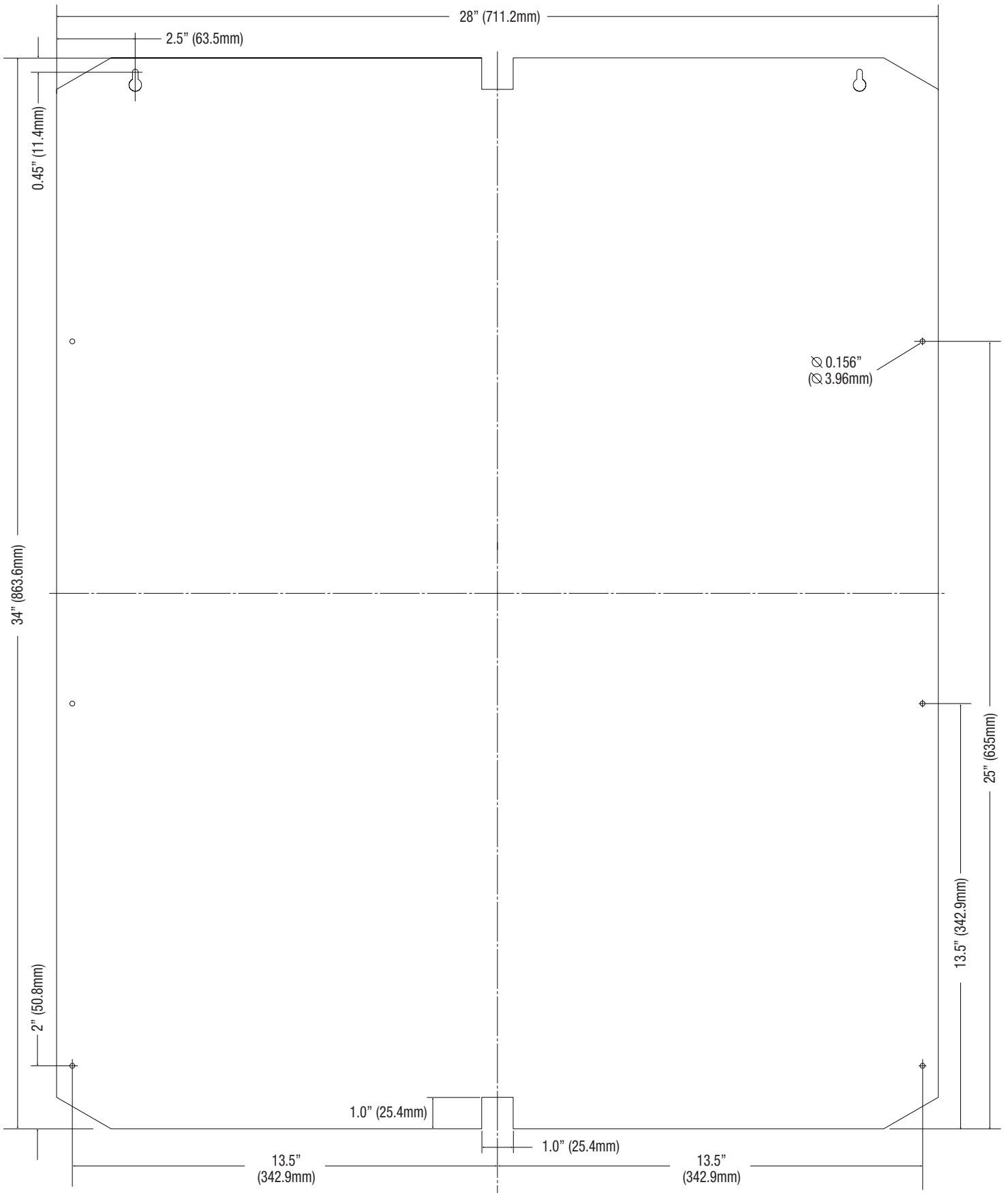


**Trove2SS2 Enclosure Dimensions (H x W x D approximate):**  
 27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm)

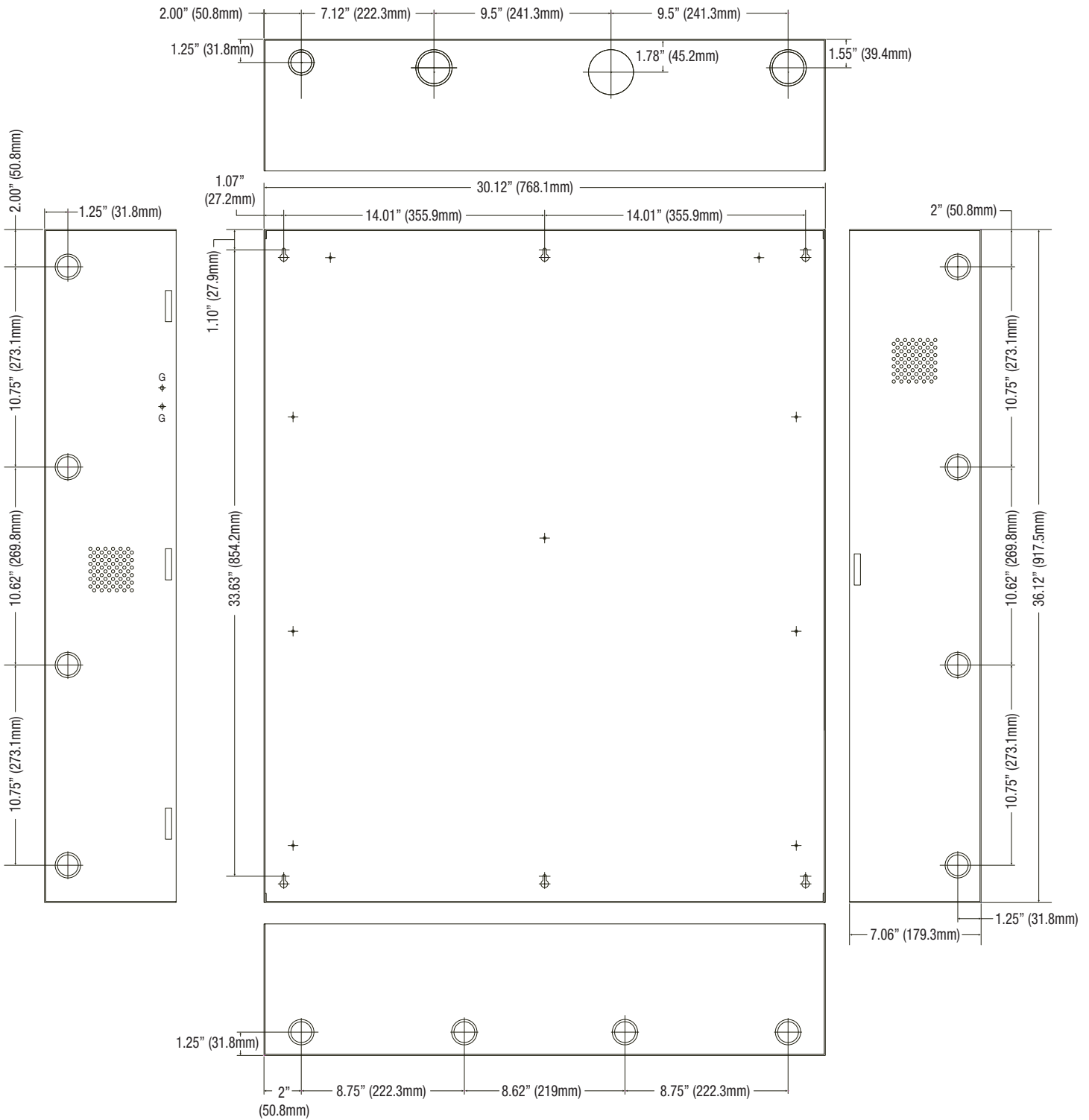


**TSS3 Dimensions (H x W x D):**

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



**Trove3SS3 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.

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