

Trove2IR2

- Trove2 enclosure with Altronix/Inner Range backplane (TIR2)

TIR2

- Altronix/Inner Range backplane only

Trove3IR3

- Trove3 enclosure with Altronix/Inner Range backplane (TIR3)

TIR3

- Altronix/Inner Range backplane only

Installation Guide



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Rev. TIR070522

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Trove2IR2 and Trove3IR3 accommodate various combinations of Inner Range boards with or without Altronix power supplies and accessories for access 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:

Trove2IR2

Trove2 enclosure with TIR2 Altronix/Inner Range backplane.

- Includes: tamper switch, cam lock, mounting hardware.
- 16 Gauge 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.

TIR2

Altronix/Inner Range 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).

TIR2 accommodates a combination of the following:

Altronix:

- Up to four (4) AL400ULXB2, AL400ULXB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV, PoE60, PoE201, Tango1B, ACM8, ACM8CB, ACMS8, ACMS8CB, LINQ8ACM, LINQ8ACMCB.
- Up to four (4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.

Inner Range:

- One (1) Integrity Security Controller INTG-996001EUPCBK or Integrity Access Controller module INTG-996035PCBK.
- Up to five (5) Integrity 8-32 Zone LAN I/O Expander modules INTG-996005PCBKIT or Integrity Intelligent LAN Access modules INTG-996018PCBK or Integrity Standard LAN Access modules INTG-996535PCBK or Integrity UniBus 16 Floor Lift Interface Device INTG-996540PCBK.
- Up to six (6) Integrity Standard LAN Access Module PCB INTG-996012PCBK or Integrity UniBus 8 Zone Expansion Device INTG-996500PCBKIT or Integrity UniBus 8 Relay Expander INTG-996515PCBKIT or Integrity Unibus 8 Auxiliary Relay Expander INTG-996520PCBKIT

Trove3IR3

Trove3 enclosure with TIR3 Altronix/Inner Range backplane.

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

TIR3

Altronix/Inner Range 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).

TIR3 accommodates a combination of the following:

Altronix:

- Up to four (4) AL400ULXB2, AL400ULXB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV, PoE60, PoE201, Tango1B, ACM8, ACM8CB, ACMS8, ACMS8CB, LINQ8ACM, LINQ8ACMCB.
- Up to four (4) ACM4(CB), MOM5, PD4UL(CB), PD8UL(CB), PDS8(CB), or VR6.

Inner Range:

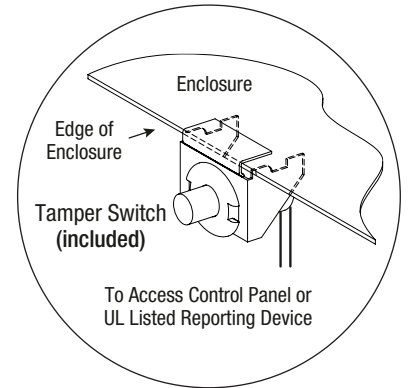
- One (1) Integrity Security Controller INTG-996001EUPCBK or Integrity Access Controller module INTG-996035PCBK.
- Up to twelve (12) Integrity 8-32 Zone LAN I/O Expander modules INTG-996005PCBKIT or Integrity Intelligent LAN Access modules INTG-996018PCBK or Integrity Standard LAN Access modules INTG-996535PCBK or Integrity UniBus 16 Floor Lift Interface Device INTG-996540PCBK.
- Up to twenty (20) Integrity Standard LAN Access Module PCB INTG-996012PCBK or Integrity UniBus 8 Zone Expansion Device INTG-996500PCBKIT or Integrity UniBus 8 Relay Expander INTG-996515PCBKIT or Integrity Unibus 8 Auxiliary Relay Expander INTG-996520PCBKIT.

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. 3*). 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/Inner Range boards to backplane, *refer to pages 3-4*.

Fig. 1



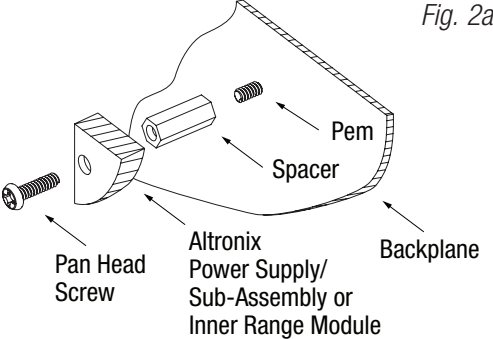
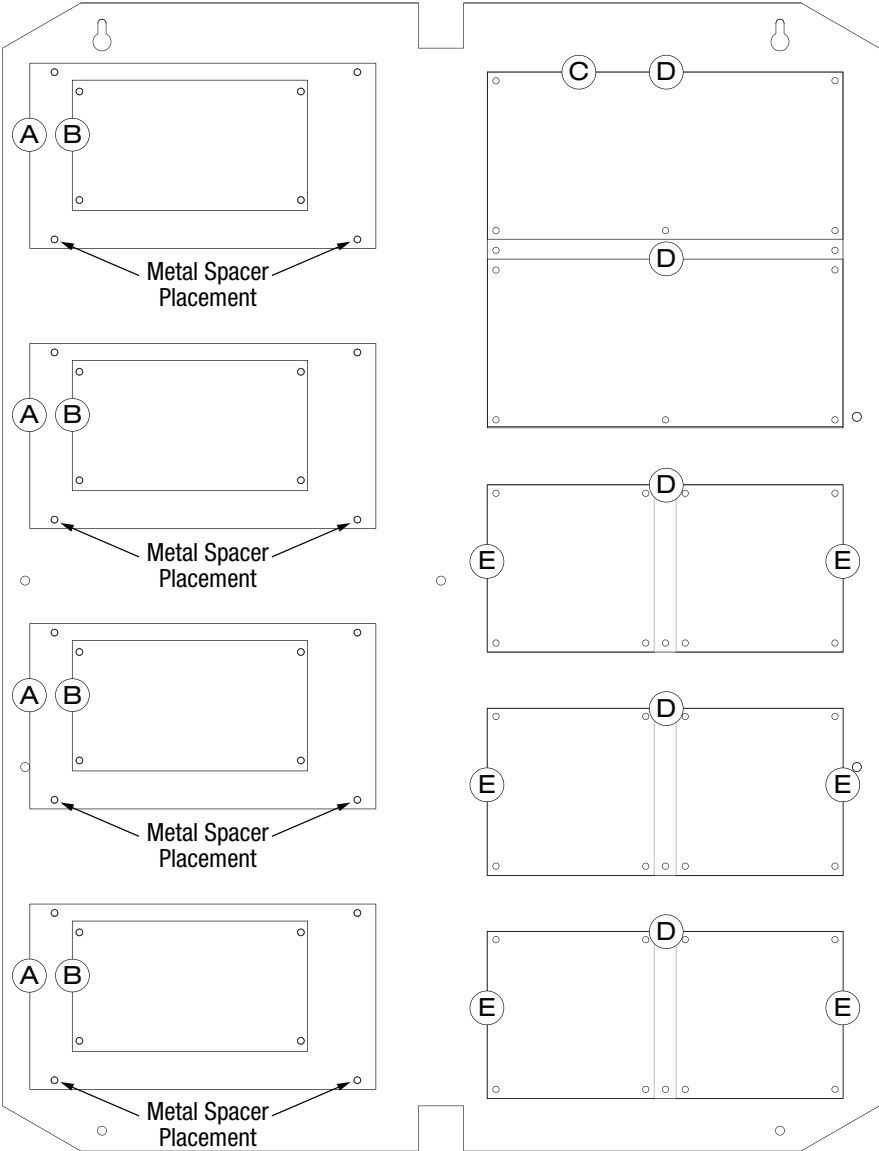
TIR2: Configuration of Altronix Power Supply/Sub-Assembly Boards and Inner Range Modules

- 1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies (Fig. 2, pg. 4).
Fasten metal spacers in the correct locations to provide proper grounding for Altronix power supplies, see below (Fig. 2, pg. 4).
Fasten metal spacers (provided) to pems that match the hole pattern for Inner Range modules.
- 2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 2, 2a, pg. 4).
- 3. Fasten TIR2 backplane to Trove2 enclosure utilizing lock nuts (provided).

Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Altronix / Inner Range	Pem Mounting
AL400ULXB2, AL400ULXB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV, PoE60, PoE201, Tango1B, ACM8, ACM8CB, ACMS8, ACMS8CB, LINQ8ACM, LINQ8ACMCB	(A)
ACM4, ACM4CB, LINQ8PD, LINQ8PDCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, VR6	(B)
Integriti Security Controller INTG-996001EUPCBK or Integriti Access Controller module INTG-996035PCBK	(C)
Integriti 8-32 Zone LAN I/O Expander modules INTG-996005PCBKIT or Integriti Intelligent LAN Access modules INTG-996018PCBK or Integriti Standard LAN Access modules INTG-996535PCBK or Integriti UniBus 16 Floor Lift Interface Device INTG-996540PCBK	(D)
Integriti Standard LAN Access Module PCB INTG-996012PCBK or Integriti UniBus 8 Zone Expansion Device INTG-996500PCBKIT or Integriti UniBus 8 Relay Expander INTG-996515PCBKIT or Integriti Unibus 8 Auxiliary Relay Expander INTG-996520PCBKIT	(E)

Fig. 2 - Trove2IR2/TIR2 Altronix/Inner Range Configuration



TIR3: Configuration of Altronix Power Supply/Sub-Assembly Boards and Inner Range Modules

- 1. Fasten spacers (provided) to pems that match the hole pattern for Altronix power supply/chargers and sub-assemblies (Fig. 3, pg. 5).
Fasten metal spacers in the correct locations to provide proper grounding for Altronix power supplies, see below (Fig. 3, pg. 5).
Fasten metal spacers (provided) to pems that match the hole pattern for Inner Range modules.
- 2. Mount boards to spacers utilizing 5/16" pan head screws (provided) (Fig. 3, 3a, pg. 5).
- 3. Fasten TIR3 backplane to Trove3 enclosure utilizing lock nuts (provided).

Power Supply, Sub-Assembly and Access Controller Position Chart for the Following Models:

Altronix / Inner Range	Pem Mounting
AL400ULXB2, AL400ULXB2V, AL600ULXB, AL600XB220, AL1012ULXB, AL1012XB220, AL1024ULXB2, AL1024XB2V, eFlow4NB, eFlow4NBV, eFlow6NB, eFlow6NBV, eFlow102NB, eFlow102NBV, eFlow104NB, eFlow104NBV, PoE60, PoE201, Tango1B, ACM8, ACM8CB, ACMS8, ACMS8CB, LINQ8ACM, LINQ8ACMCB	(A)
ACM4, ACM4CB, LINQ8PD, LINQ8PCB, MOM5, PD4UL, PD4ULCB, PD8UL, PD8ULCB, PDS8, PDS8CB, VR6	(B)
Integriti Security Controller INTG-996001EUPCBK or Integriti Access Controller module INTG-996035PCBK	(C)
Integriti 8-32 Zone LAN I/O Expander modules INTG-996005PCBKIT or Integriti Intelligent LAN Access modules INTG-996018PCBK or Integriti Standard LAN Access modules INTG-996535PCBK or Integriti UniBus 16 Floor Lift Interface Device INTG-996540PCBK	(D)
Integriti Standard LAN Access Module PCB INTG-996012PCBK or Integriti UniBus 8 Zone Expansion Device INTG-996500PCBKIT or Integriti UniBus 8 Relay Expander INTG-996515PCBKIT or Integriti Unibus 8 Auxiliary Relay Expander INTG-996520PCBKIT	(E)

Fig. 3 - Trove3IR3/TIR3 Altronix/Inner Range Configuration

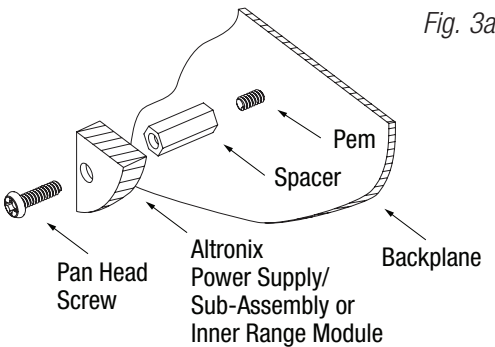
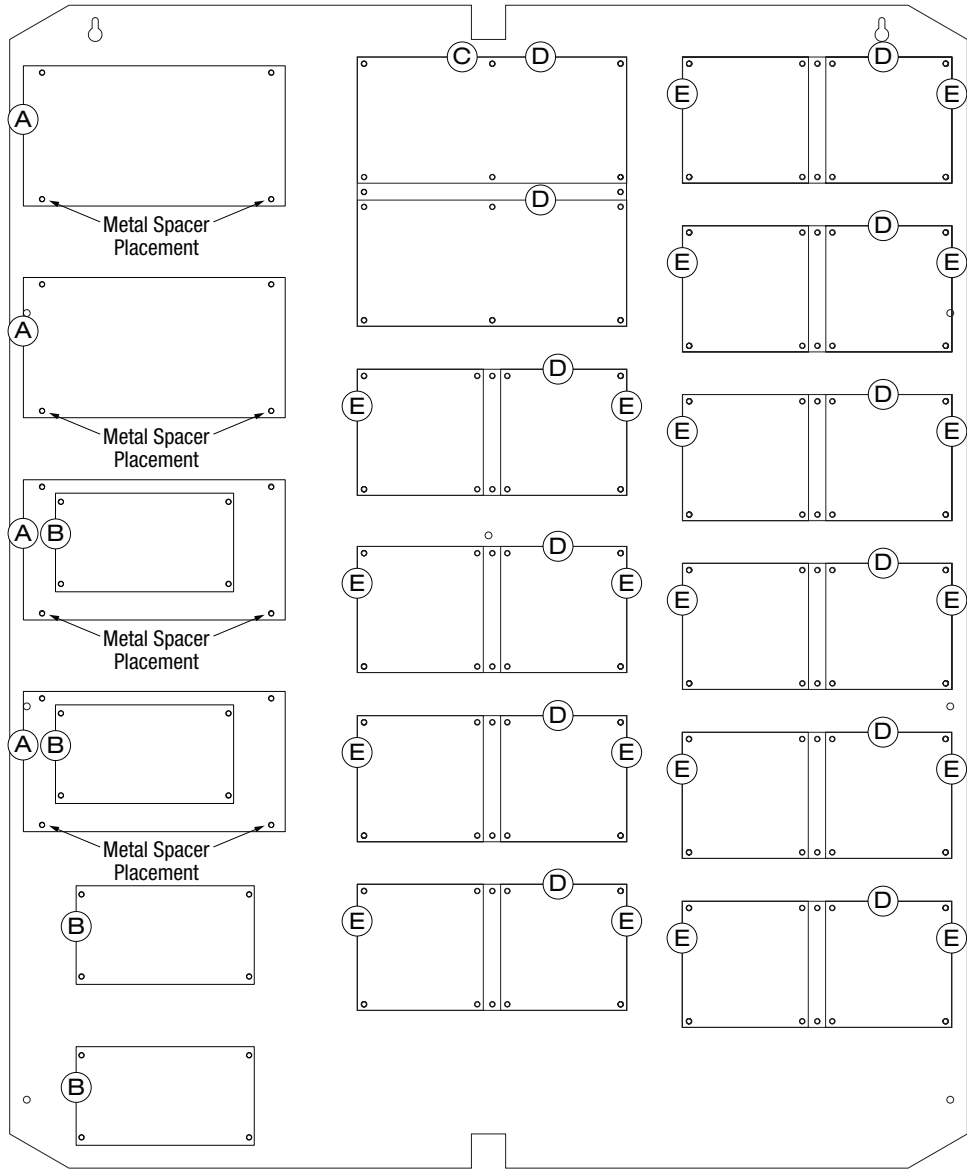
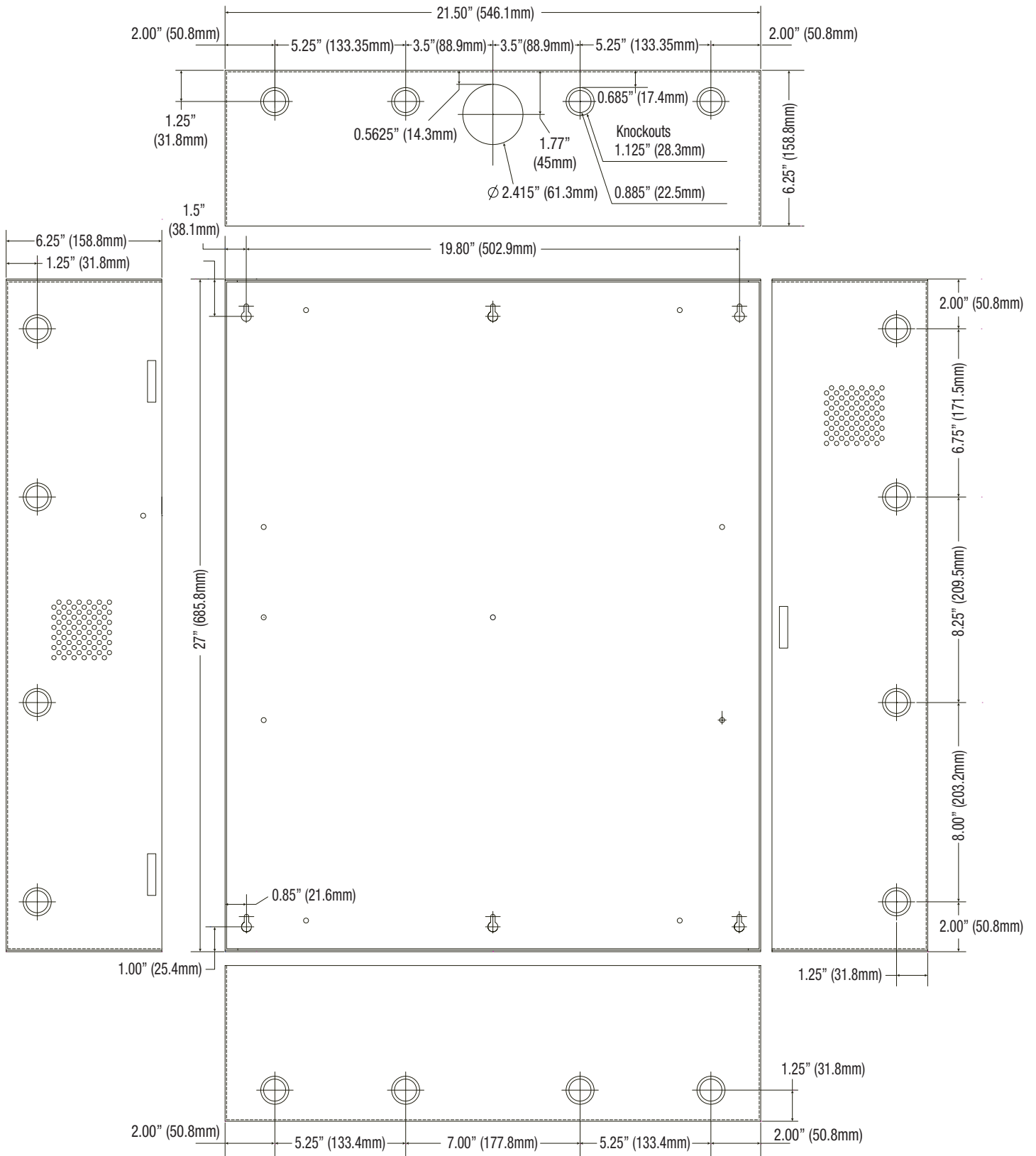


Fig. 3a

Notes:

Trove2 Enclosure Dimensions (H x W x D approximate):

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



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

