TROVE™

Access & Power Integration

Altronix/CDVI Kits

Models Include:

T1CVK34
4 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove1 enclosure with TC1 Altronix/CDVI backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller

T2CVK710
10 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TCV2 Altronix/CDVI backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) ACM8 - Fused Access Control Module
- One (1) ACM4 - Fused Access Control Module
- One (1) PD8UL - Fused Power Distribution Module

T3CVK7720
20 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove3 enclosure with TCV3 Altronix/CDVI backplane
- Two (2) AL1024ULXB2 - Power Supply/Chargers
- Two (2) ACM8 - Fused Access Control Modules
- One (1) ACM4 - Fused Access Control Module
- One (1) PD8UL - Fused Power Distribution Module
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)

T1CVK34D
4 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove1 enclosure with TC1 Altronix/CDVI backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) ACM4CB - PTC Access Power Controller

T2CVK710D
10 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TCV2 Altronix/CDVI backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) ACM8CB - PTC Access Control Module
- One (1) ACM4CB - PTC Access Control Module
- One (1) PD8ULCB - PTC Power Distribution Module

T2CVK3310
10 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TCV2 Altronix/CDVI backplane
- Two (2) AL600ULXB - Power Supply/Chargers
- Two (2) MOM5 - PTC Power Distribution Modules with Fire Alarm Interface

T3CVK7720D
20 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove3 enclosure with TCV3 Altronix/CDVI backplane
- Two (2) AL1024ULXB2 - Power Supply/Chargers
- Two (2) ACM8CB - PTC Access Control Modules
- One (1) ACM4CB - PTC Access Control Module
- One (1) PD8ULCB - PTC Power Distribution Module
- One (1) RSB2 - Rocker Switch Bracket with Two (2) Rocker Switches (Not evaluated by UL)

All components of these Trove kits are UL Listed sub-assemblies.
Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

Altronix®
More than just power.™

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Rev. TCVLK_052423

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove CDVI kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and sub-assemblies. These kits also accommodate various combinations of CDVI Atrium A22K/A22NB/ADH10 boards for up to twenty (20) doors in a single enclosure.

Configuration Chart:

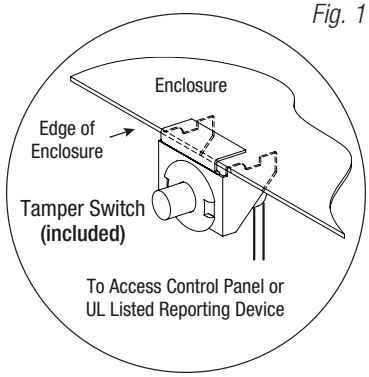
Altronix Model Number	115VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main Outputs on Power Supply board, MOM5 power distribution module or ACM4(CB)/ACM8(CB) Access Power Controllers' outputs	Nominal DC Output Voltage Power Supply Output Range (VDC)	Fail-Safe/Fail-Secure Outputs	Additional Fuse or PTC Protected Outputs	ACM4(CB)/ACM8(CB) Board Input Fuse (PTC) Rating	ACM4(CB) Board Output Fuse (PTC) Rating	ACM8(CB) Board Output Fuse (PTC) Rating	PD8UL(CB) Board Output Fuse (PTC) Rating	MOM5 Output PTC Rating
T1CVK34	3.5	5A/ 250V	–	24VDC @ 5.7A	20.17-26.4	4	–	10A/ 32V	3A/ 32V	–	–	–
T1CVK34D							–	9A	2.5A	–	–	–
T2CVK710	4.2		15A/ 32V	24VDC @ 9.4A	20.17-26.4	12	8	10A/ 250V	3A/ 32V	3.5A/ 250V	3.5A/ 250V	–
T2CVK710D									2.5A	2.5A	2.5A	
T2CVK3310	7.0		–	24VDC @ 5.9A + 24VDC @ 5.9A	20.17-26.4	–	10	–	–	–	–	2.5A
T3CVK7720	8.4		15A/ 32V	24VDC @ 9.4A + 24VDC @ 9.7A	20.17-26.4	20	8	10A/ 250V	3A/ 32V	3.5A/ 250V	3.5A/ 250V	–
T3CVK7720D									2.5A	2.5A	2.5A	–

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.
   If your application requires a raised backplane, re-mount it using metal spacers and screws (provided).
2. Mark and predrill holes in the wall to line up with the top three keyholes in the enclosure. Install two/three upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two/three upper screws; level and secure. Mark the position of the lower two/three 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.
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.

Fig. 1



4. Connect unswitched AC power (115VAC 60Hz) to terminals marked [L, N]. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground. Green "AC" LED on power supply board will turn on. This light can be seen through the LED lens on the door of the enclosure.
   Keep power-limited wiring separate from non power-limited wiring (115VAC 60Hz Input, Battery Wires).
   Minimum 0.25" spacing must be provided.
   CAUTION: Do not touch exposed metal parts.
   Shut branch circuit power before installing or servicing equipment.
   There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.
5. Measure voltage before connecting devices. This helps avoiding potential damage.
6. Mount CDVI A22K/A22NB/ADH10 boards to backplane, *refer to pages 3-6*.
7. Refer to the *ULXB Power Supply/Charger Installation Guide* (AL600ULXB, AL1024ULXB) and corresponding *Sub-Assembly Installation Guide* for ACM4(CB), ACM8(CB), PD8UL(CB), MOM5 for further installation instructions.

T1CVK34 and T1CVK34D: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board *(Fig. 2b, pg. 3)*.
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions *(Fig. 2, pg. 3)* by postioning spacers over appropriate holes on the backplane and depressing down on board to secure spacer to the backplane *(Fig. 2a, 2b, pg. 3)*.
   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.
   Please make sure that they are mounted correctly, as shown in *Fig. 2* below.
3. Fasten backplane to Trove2 enclosure utilizing pan head screws (provided).

Fig. 2

Fig. 2a

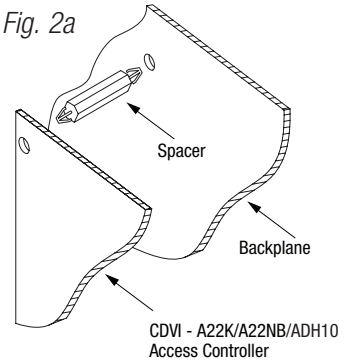
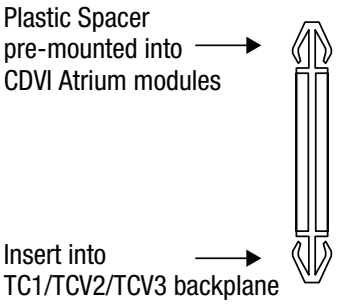


Fig. 2b



T2CVK710 and T2CVK710D: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board *(Fig. 3b, pg. 4)*.
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions *(Fig. 3, pg. 4)* by postioning spacers over appropriate holes on the backplane and depressing down on board to secure spacer to the backplane *(Fig. 3a, 3b, pg. 4)*.
   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.
   Please make sure that they are mounted correctly, as shown in *Fig. 3* below.
3. Fasten backplane to Trove2 enclosure utilizing pan head screws (provided).

Fig. 3

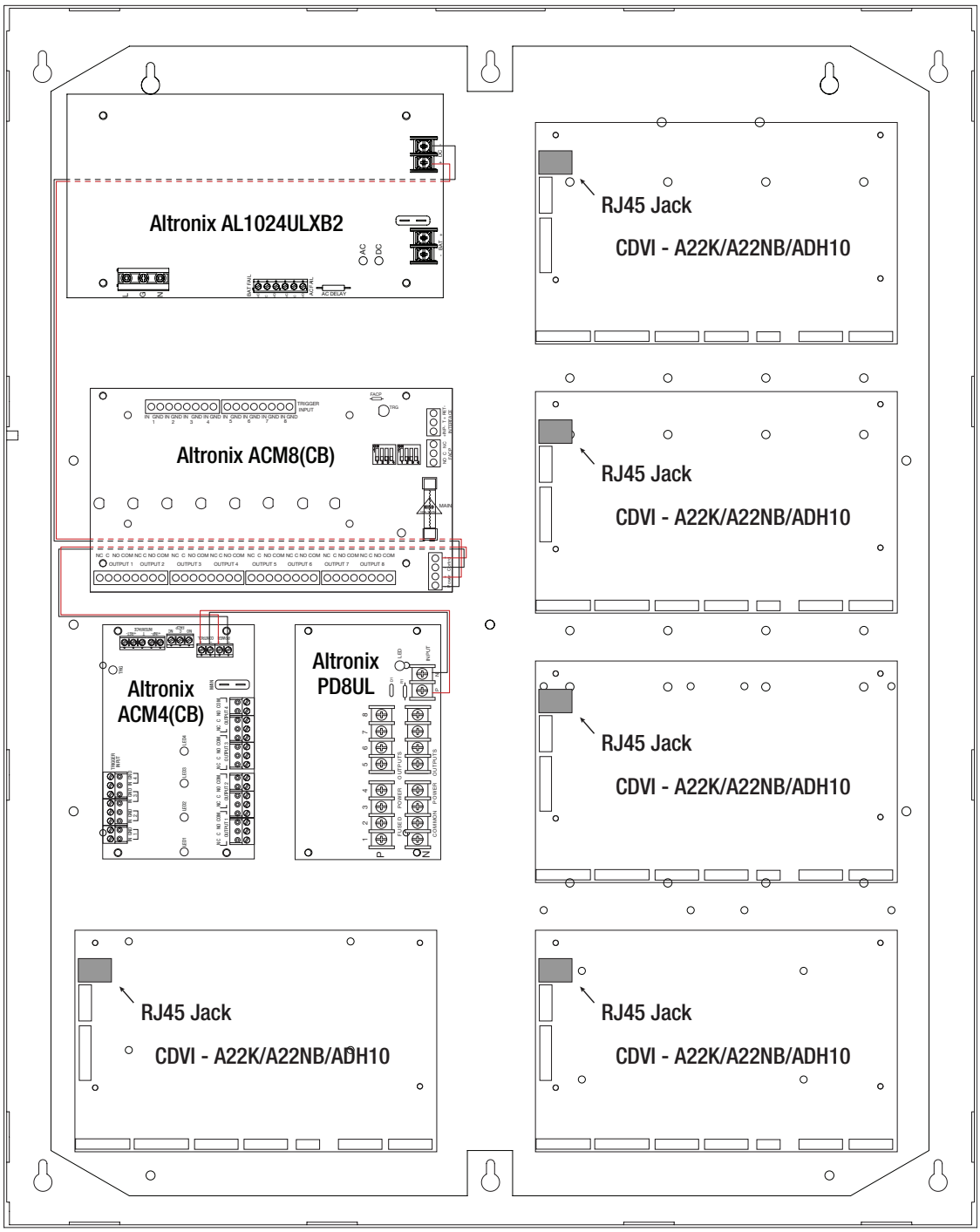


Fig. 3a

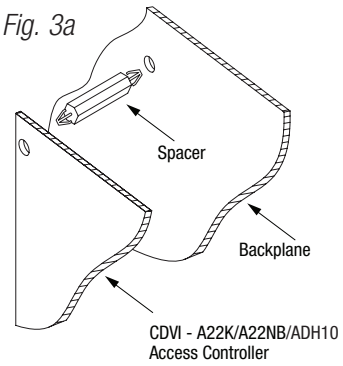
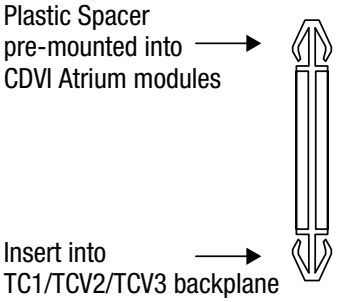


Fig. 3b



T2CVK3310: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board *(Fig. 4b, pg. 5)*.
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions *(Fig. 4, pg. 5)* by postioning spacers over appropriate holes on the backplane and depressing down on board to secure spacer to the backplane *(Fig. 4a, 4b, pg. 5)*.
   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.
   Please make sure that they are mounted correctly, as shown in *Fig. 4* below.
3. Fasten backplane to Trove2 enclosure utilizing pan head screws (provided).

Fig. 4

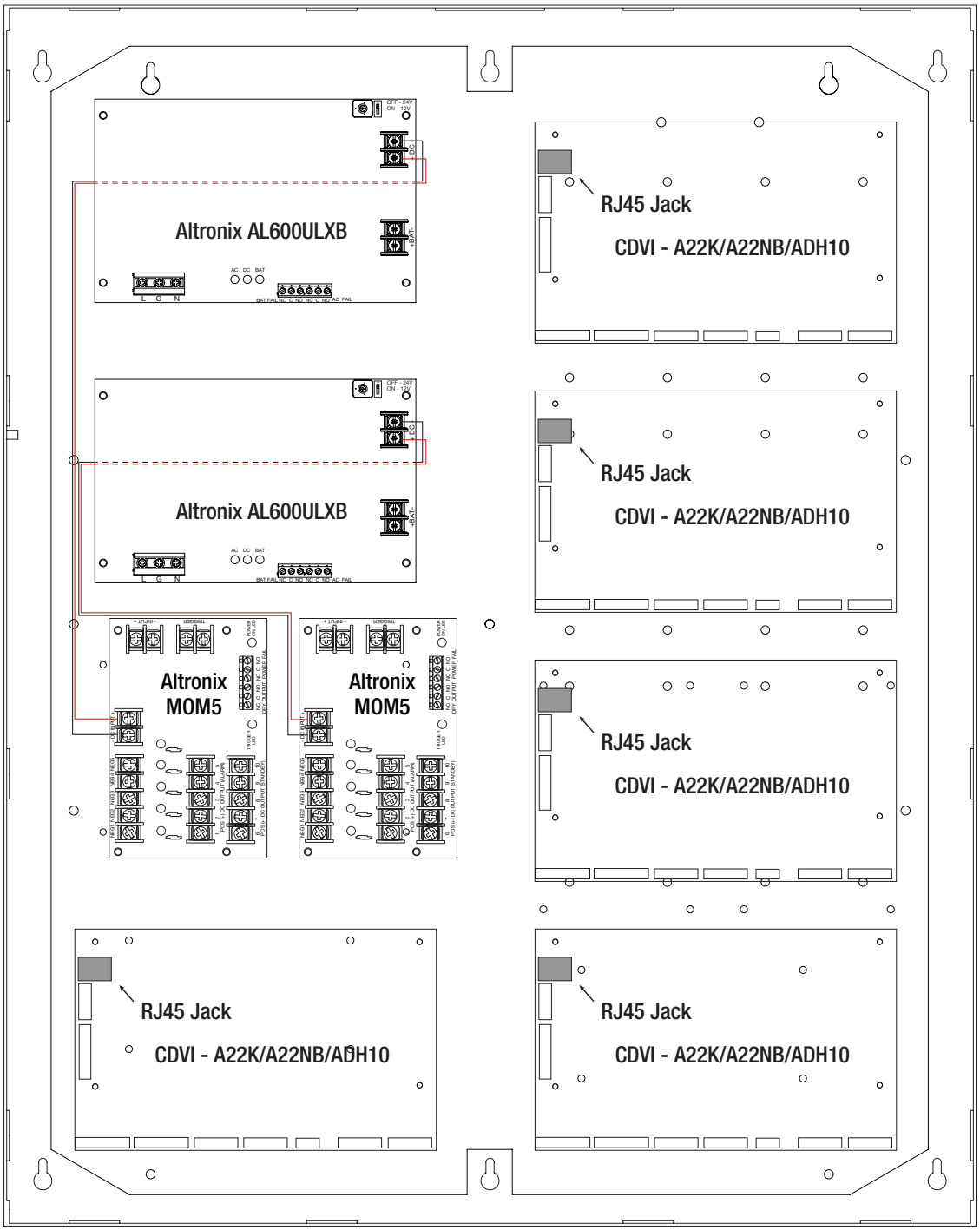


Fig. 4a

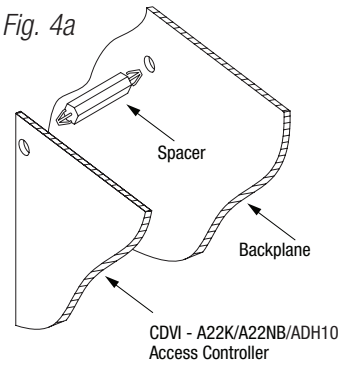
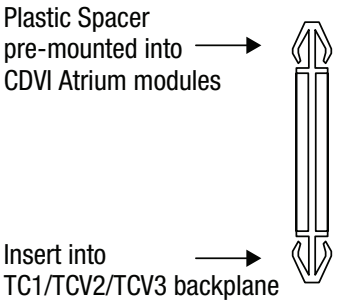


Fig. 4b



T3CVK7720 and T3CVK7720D: Configuration of CDVI A22K/A22NB/ADH10 Boards

1. Fasten spacers (supplied with A22K/A22NB/ADH10) to CDVI A22K/A22NB/ADH10 board *(Fig. 5b, pg. 6)*.
2. Mount CDVI A22K/A22NB/ADH10 boards into the correct positions *(Fig. 5, pg. 6)* by postioning spacers over appropriate holes on the backplane and depressing down on board to secure spacer to the backplane *(Fig. 5a, 5b, pg. 6)*.
   Note: CDVI A22K/A22NB/ADH10 boards have one (1) RJ45 jack each.
   Please make sure that they are mounted correctly, as shown in *Fig. 5* below.
3. Fasten backplane to Trove3 enclosure utilizing pan head screws (provided).

Fig. 5

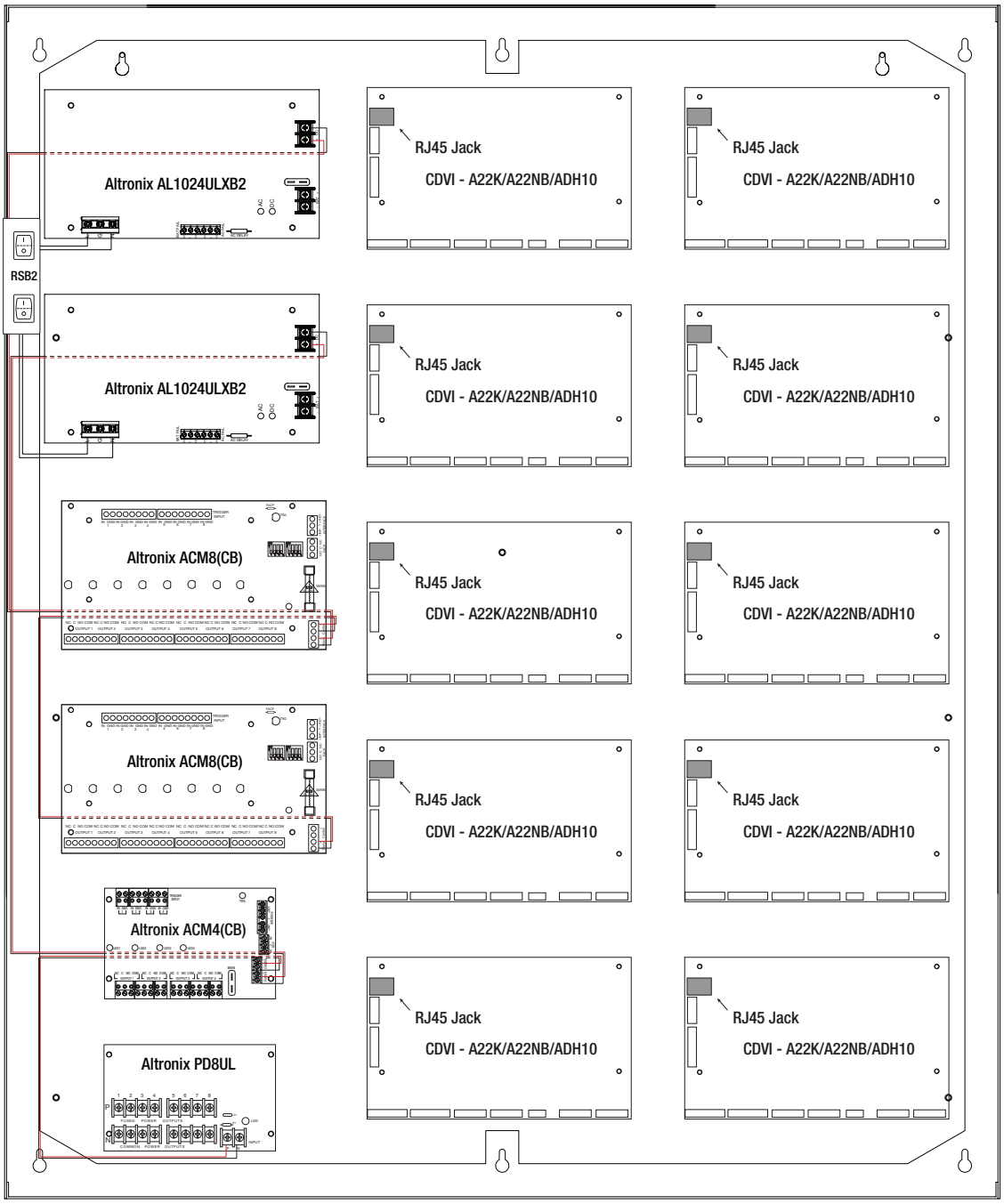


Fig. 5a

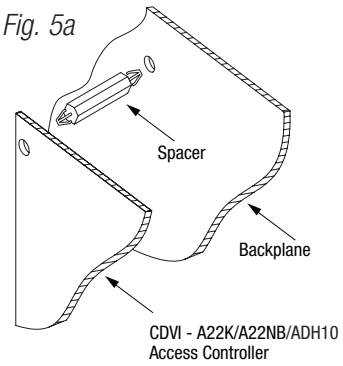
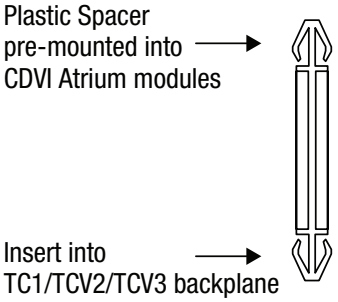
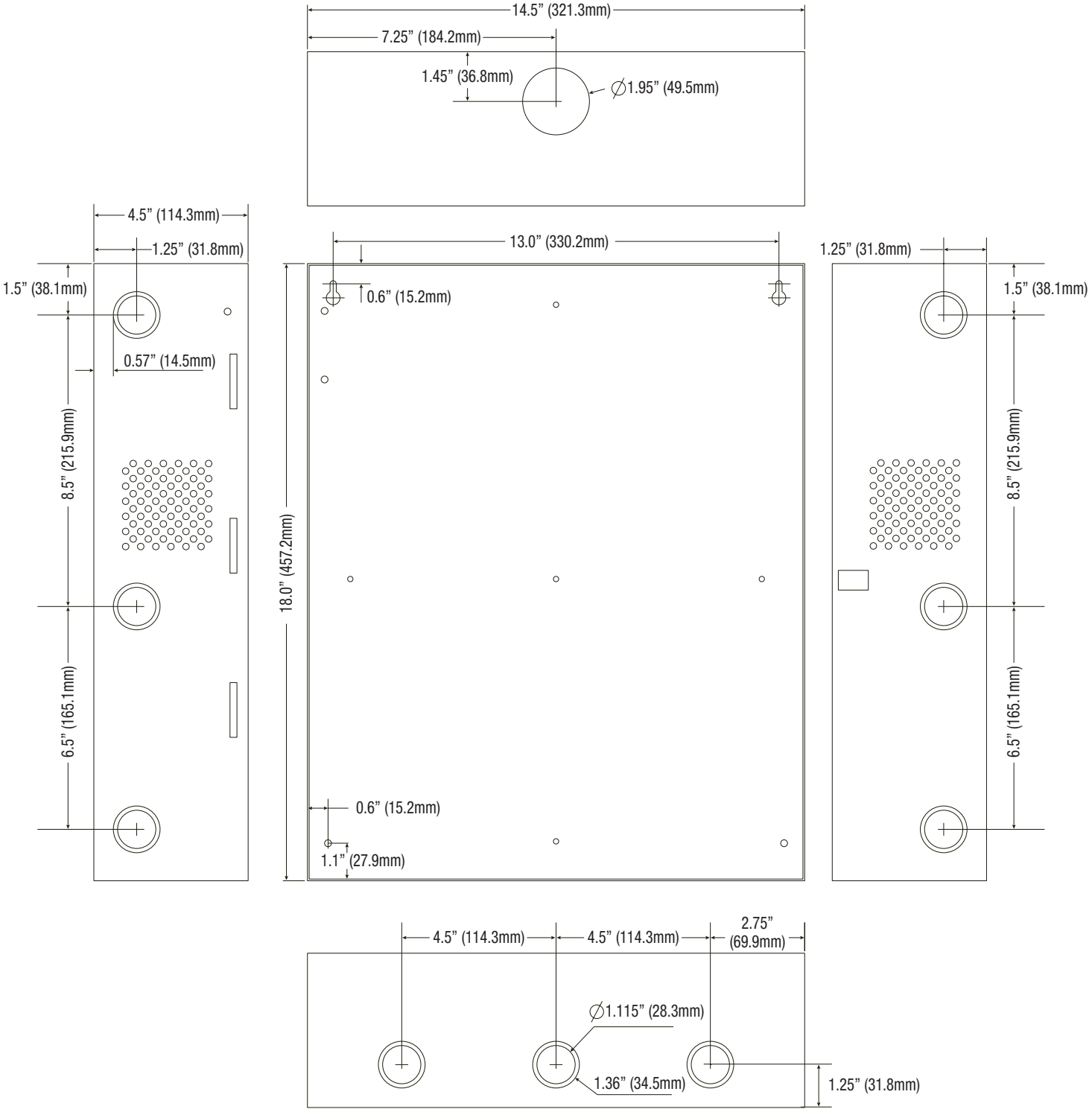


Fig. 5b



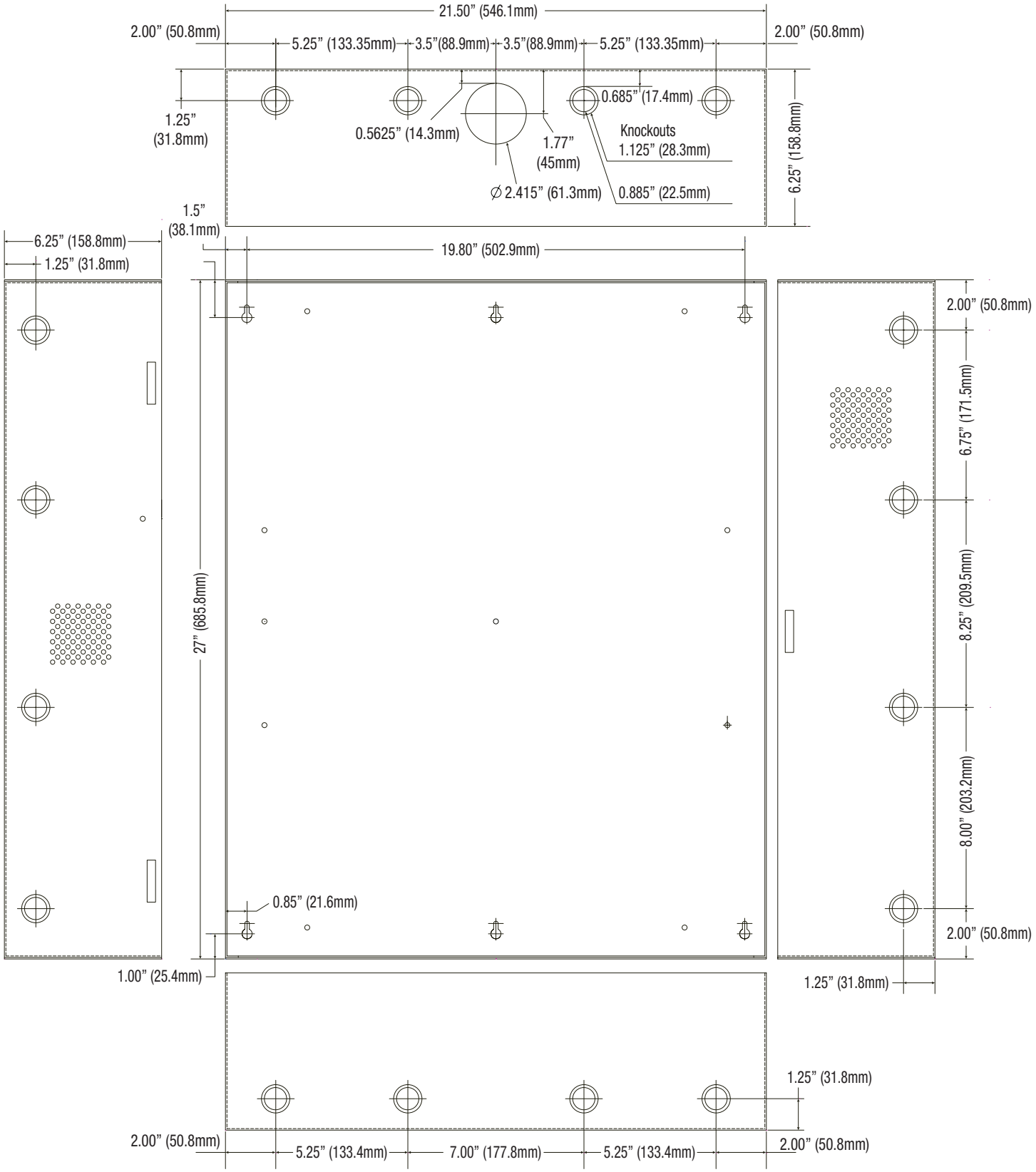
T1CVK34 and T1CVK34D (Trove1) Enclosure Dimensions (H x W x D approximate)**:**

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



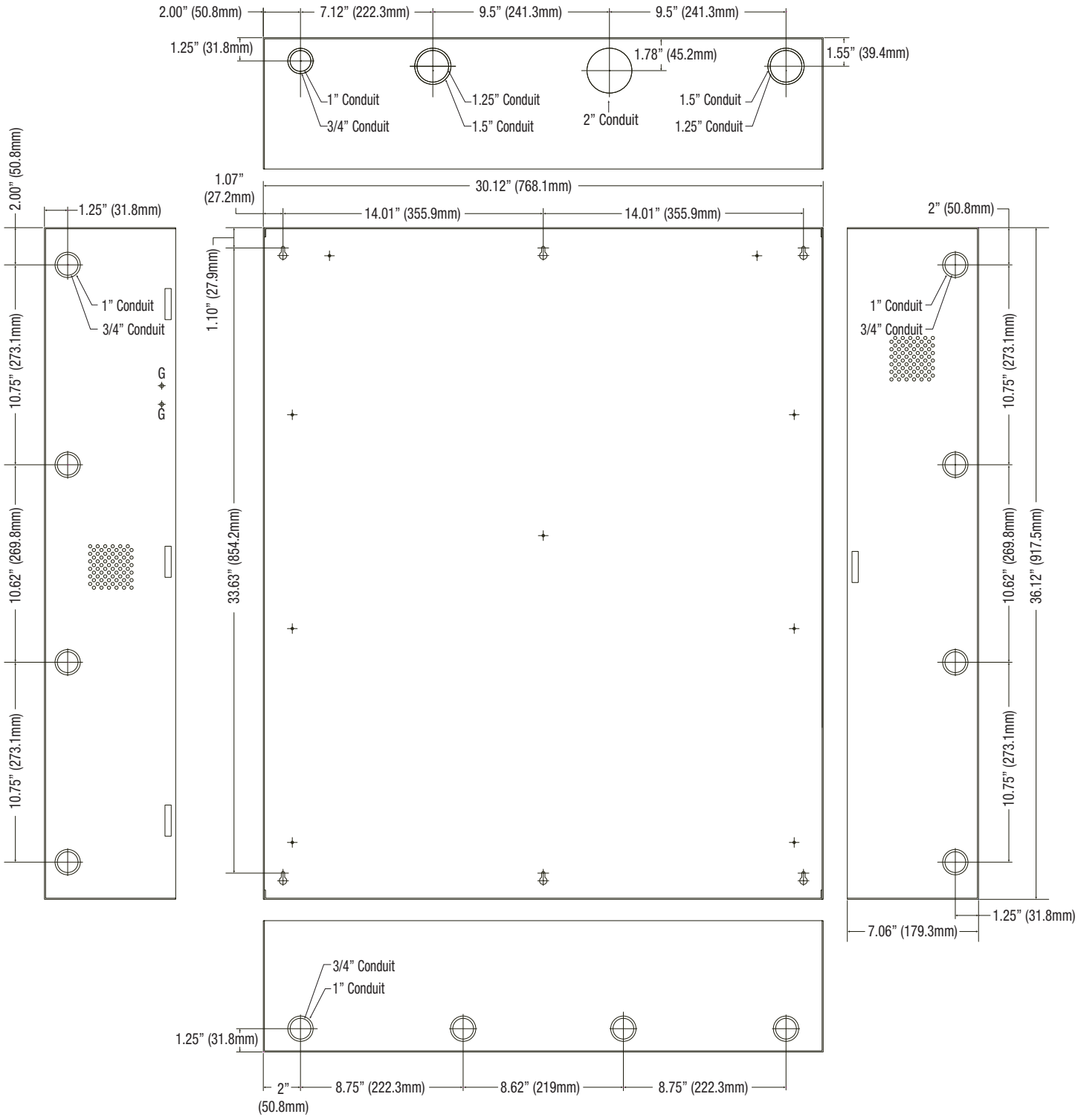
T2CVK710, T2CVK710D and T2CVK3310 (Trove2) Enclosure Dimensions (H x W x D approximate)**:**

27.25” x 21.5” x 6.5” (692.2mm x 552.5mm x 165.1mm)



T3CVK7720 and T3CVK7720D (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)



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

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