Altronix T3VK75F20 Trove Access and Power Integration Installation Guide

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TROVE™

Access & Power Integration
Altronix/HID VertX® Kits
Installation Guide

Contents

T3VK75F20 Trove Access and Power Integration

Models Include:
T1VK3F4
4 Door Kit with Fused Outputs
The fully assembled kit includes:

- Trove1 enclosure with TV1 Altronix/HID VertX® backplane
- One (1) eFlow6NB – Power Supply/Charger
- One (1) VR6 – Voltage Regulator

- One (1) PDS8 – Dual Input Fused Power Distribution Module

T2VK7F8
8 Door Kit with Fused Outputs
The fully assembled kit includes:

- Trove2 enclosure with TV2 Altronix/HID VertX® backplane
- One (1) eFlow104NB – Power Supply/Charger
- One (1) ACM8 – Fused Access Power Controller
- One (1) VR6 – Voltage Regulator
- One (1) PDS8 – Dual Input Fused Power Distribution Module

T3VK75F20
20 Door Kit with Fused Outputs
The fully assembled kit includes:

- Trove3 enclosure with TV3 Altronix/HID VertX® backplane
- One (1) eFlow104NB – Power Supply/Charger
- One (1) eFlow102NB – Power Supply/Charger
- Two (2) ACM8 – Fused Access Power Controllers
- One (1) ACM4 – Fused Access Power Controller
- One (1) PD8UL – Fused Power Distribution Module
- One (1) RSB2 – Rocker Switch Bracket with Two (2) Switches (Not evaluated by UL)

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

Overview:

Altronix Trove HID VertX® kits are pre-assembled and consist of Trove enclosures/backplanes with factory-installed Altronix power supply/ chargers and sub-assemblies. All kits accommodate a variety of HID VertX® modules for up to four (T1VK3F4), eight (T2VK7F8), or twenty (T3VK75F20) doors in a single enclosure.

Configuration Chart:

Altronix Model Number	120VAC 60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4/ ACM8 Access Power Controllers' outputs	Nominal DC Output Voltage		Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fused Outputs	ACM4/ACM8 Board Input Fuse Rating	ACM8 Board Output Fuse Rating	ACM4 Board Output Fuse Rating	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating	PD8UL Board Output Fuse Rating
					[DC] Output Range (VDC)	[Aux] Output Range (VDC)								
T1VK3F4	3.5	5A/ 250V	15A/ 32V	24VDC @ 6A	20.17-26.4	20.28-26.4	–	8	–	–	–	10A/ 32V	3A/ 32V	–
T2VK7F8	4.5	6.3A/250V	15A/ 32V	24VDC @ 9.7A	20.17-26.4	20.28-26.4	8	8	10A/ 250V	2.5A/ 250V	–	10A/ 32V	3A/ 32V	–
T3VK75F20	7.5	eFlow104NB 6.3A/ 250V	15A/ 32V	24VDC @ 9.1A	20.17-26.4	20.28-26.4	20	8	10A/ 250V	2.5A/ 250V	3A/ 32V	–	–	3.5A/ 250V
		eFlow102NB 5A/ 250V		12VDC @ 10A	9.7-13.2	10.03-13.2								

Installation Instructions for Trove1, Trove2, Trove3:
Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. The product is intended for indoor use only.

1. Remove the backplane from the enclosure. Do not discard hardware.
2. Mark and predrill holes in the wall to line up with the top two/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 two/three fasteners.
   Place the enclosure's upper keyholes over the upper screws. Install the two/three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch (Altronix Model TS112 or equivalent) in the 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 the tamper switch wiring to the Access Control Panel input or the appropriate UL Listed reporting device. To activate the alarm signal open the door of the enclosure.
4. Mount HID VertX® modules to the backplane(s), refer to pages 3, 4, and 5.
5. Refer to the eFlow Power Supply/Charger Installation Guide for eFlow6NB, eFlow104NB, eFlow102NB, and corresponding Sub-Assembly Installation Guides for ACM4, ACM8, PDS8, VR6, and PD8UL for further installation instructions.
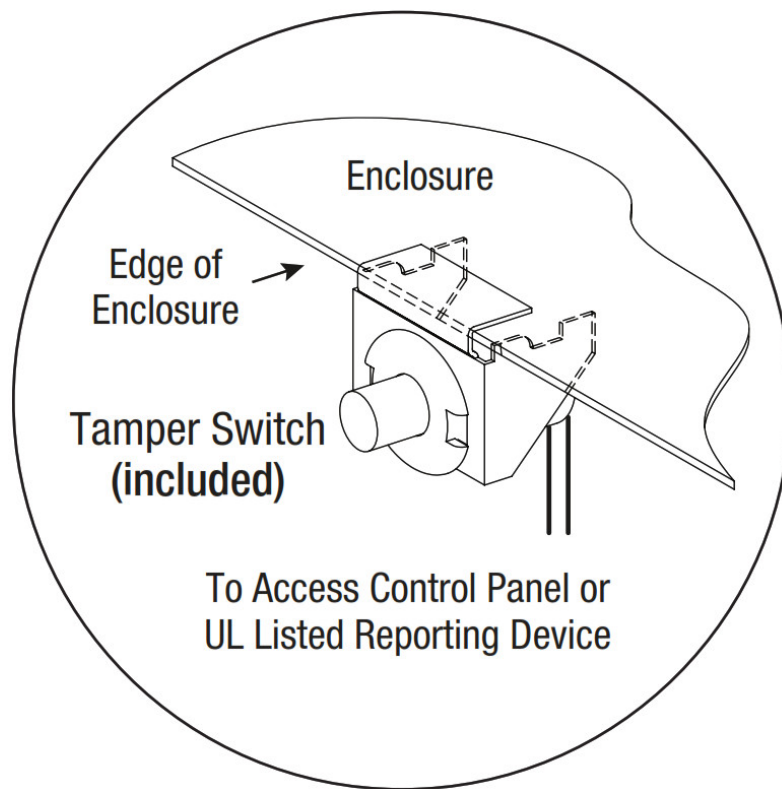
Hardware:

	Nylon Spacer
	7/8" Pan Head Screw
	Lock Nut

Fig. 1

Enclosure

Edge of Enclosure →

Tamper Switch (included)

To Access Control Panel or UL Listed Reporting Device

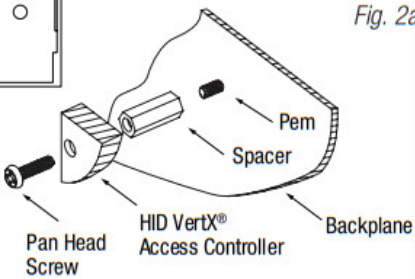**T1VK3F4: Installation Instructions for HID VertX® Access Controllers**

1. Fasten spacers (provided) onto metal poems configuration (A) of the backplane (Fig. 2, pg. 3).
2. Mount HID VertX® modules to spacers utilizing 7/8" pan head screws (provided) (Fig. 2a, pg. 3).
3. Fasten backplane to Trove1 enclosure utilizing hardware (provided).

HID VertX® Access Controller Position Chart for the Following Models:

Sub-Assembly	
V100, V200, V300, V1000, V2000	

Fig. 2

Altronix - PDS8

Altronix VR6 is mounted under PDS8

Altronix - eFlow6NB

A

HID VertX®
Module

A

HID VertX®
Module

Fig. 2a

Pem

Spacer

Pan Head
Screw

HID VertX®
Access Controller

Backplane

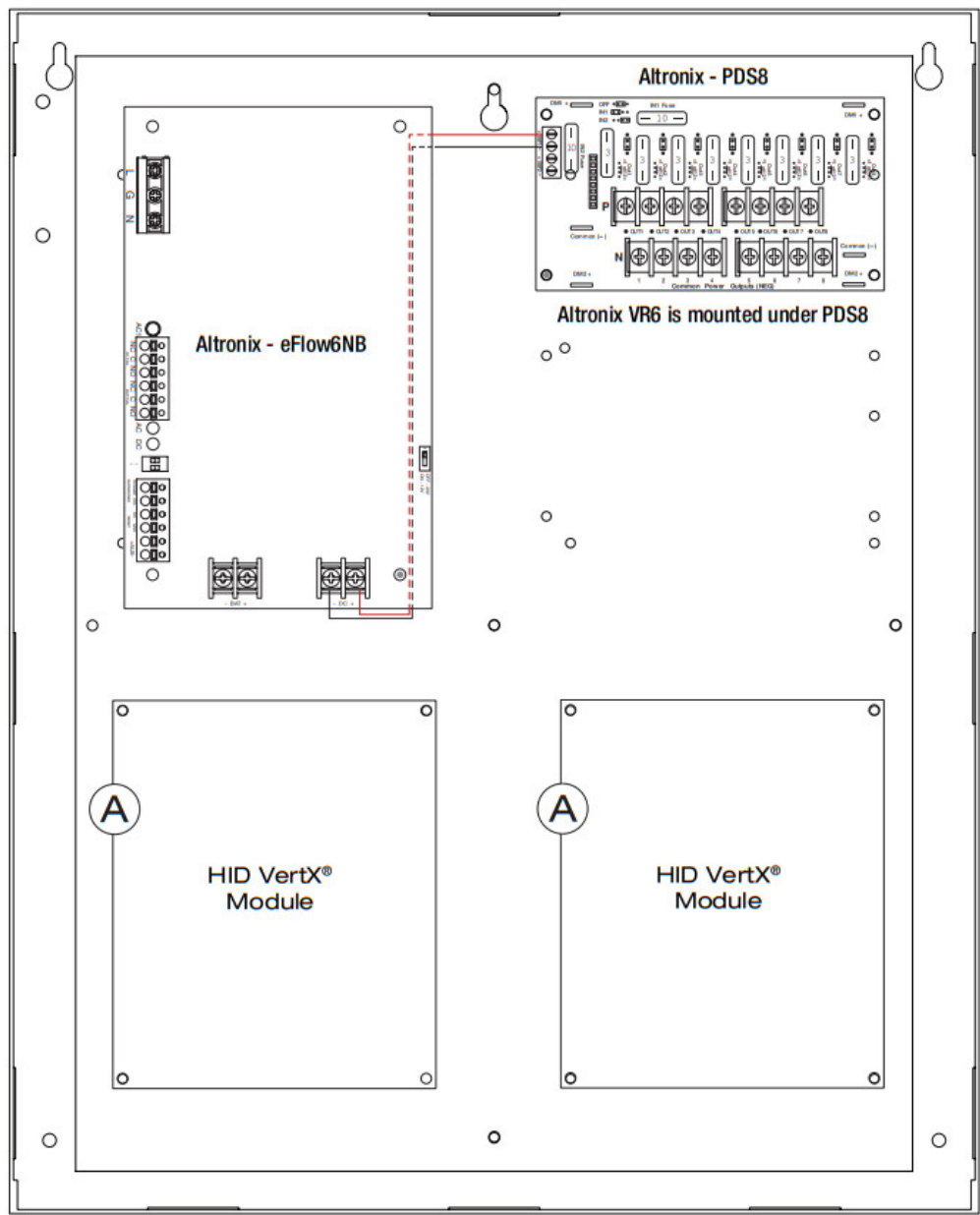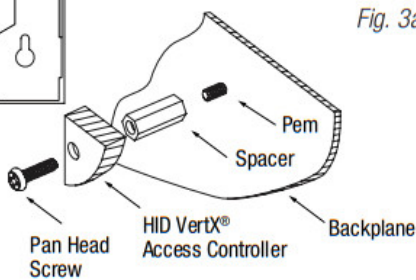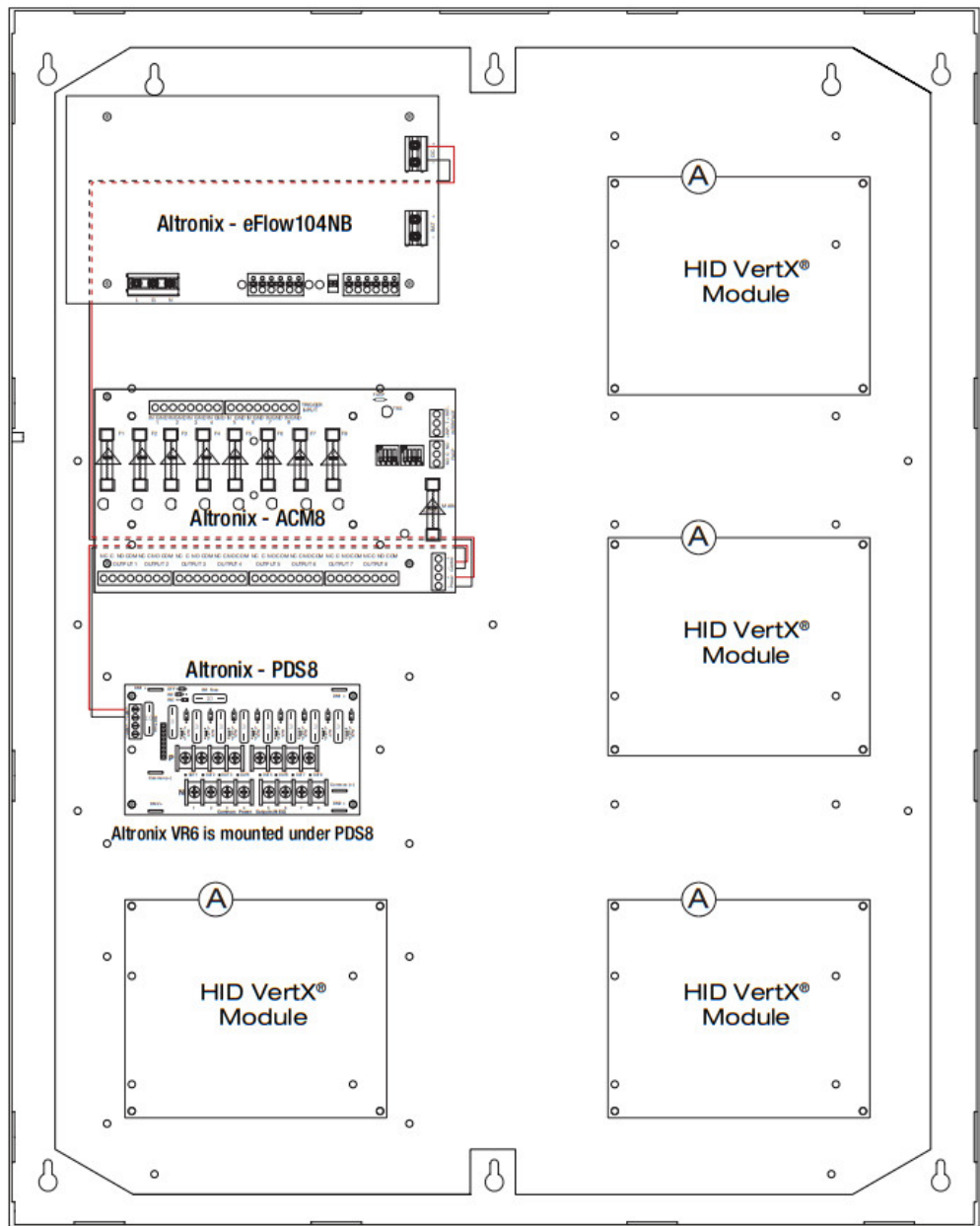**T2VK7F8: Installation Instructions for HID VertX® Access Controllers**

1. Fasten spacers (provided) onto metal pens configuration (A) of the backplane (Fig. 3, pg. 4).
2. Mount HID VertX® modules to spacers utilizing 7/8" pan head screws (provided) (Fig. 3a, pg. 4).
3. Fasten the backplane to the Trove2 enclosure utilizing hardware (provided).

HID VertX® Access Controller Position Chart for the Following Models:

Sub-Assembly	
V100, V200, V300, V1000, V2000	

Fig. 3

Fig. 3a

T3VK75F20: Installation Instructions for HID VertX® Access Controllers

1. Fasten spacers (provided) onto metal pens configuration (A) of the backplane (Fig. 4, pg. 5).

2. Mount HID VertX® modules to spacers utilizing 7/8" pan head screws (provided) (Fig. 4a, pg. 5).

3. Fasten the backplane to the Trove3 enclosure utilizing hardware (provided).

HID VertX® Access Controller Position Chart for the Following Models:

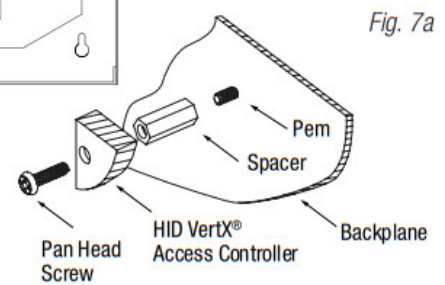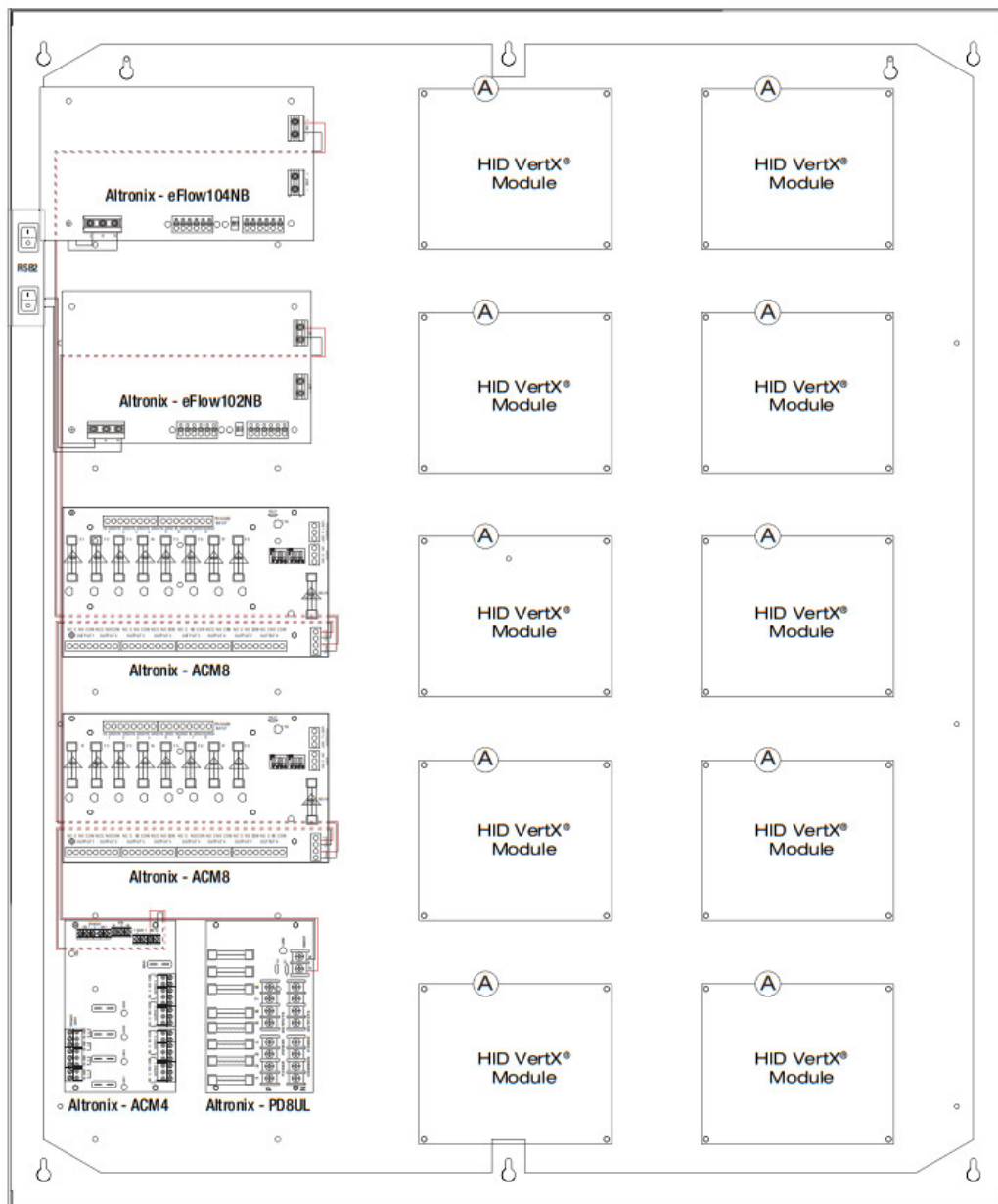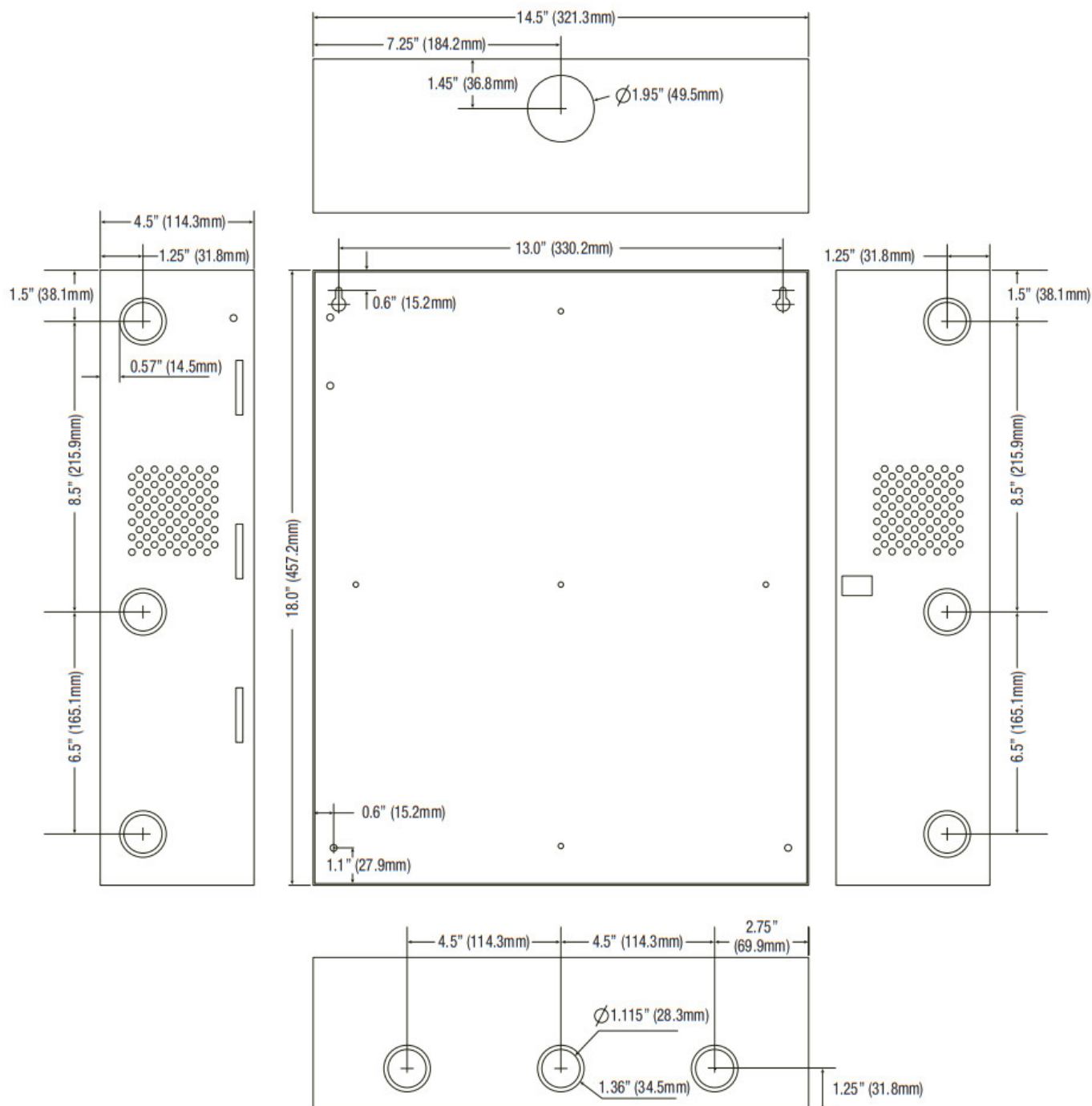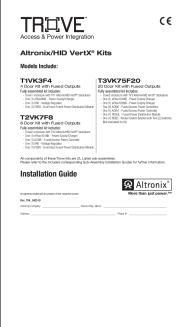| Sub-Assembly	
V100, V200, V300, V1000, V2000	

Fig. 4

Fig. 7a

T1VK3F4 (Trove1) Enclosure Dimensions (H x W x D approximate):
18" x 14.5" x 4.625" (457mm x 368mm x 118mm)

T2VK7F8 (Trove2) Enclosure Dimensions (H x W x D approximate):
27.25" x 21.75" x 6.5" (692.15mm x 546.1mm x 165.1mm)

T3VK75F20 (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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Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

phone: 718-567-8181
fax: 718-567-9056
web site: **www.altronix.com**
e-mail: **info@altronix.com**
Lifetime Warranty
IITrove HID VertX Kits
J21U

Documents / Resources

TROVE Access & Power Integration Altronix/HID VertX® Kits Models Include: **T1VK3F4** 4 Door Kit with Fused Outputs **T2VK7F8** 8 Door Kit with Fused Outputs Installation Guide **T3VK75F20** 20 Door Kit with Fused Outputs	**Altronix T3VK75F20 Trove Access and Power Integration** [pdf] Installation Guide T3VK75F20 Trove Access and Power Integration, T3VK75F20, Trove Access and Power Integration, Access and Power Integration, Power Integration, Integration

References

- **Altronix Home**

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