TROVE™

Access & Power Integration

Altronix/Honeywell ProWatch/WinPak Kits

Models Include:

T2HWK78V

8 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with THW2 Altronix/Honeywell backplane
- One (1) AL1024XB2V - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2HWK712V

12 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove2 enclosure with THW2 Altronix/Honeywell backplane and THWD2 Honeywell door backplane
- One (1) AL1024XB2V - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) ACM4 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T3HWK7516V

16 Door Kit with Fused Outputs

Fully assembled kit includes:

- Trove3 enclosure with THW3 Altronix/Honeywell backplane and THWD2 Honeywell door backplane
- One (1) AL1024XB2V - Power Supply/Charger
- One (1) AL1012XB220 - Power Supply/Charger
- Two (2) ACM8 - Fused Access Power Controllers
- One (1) PD8UL - Fused Power Distribution Module
- One (1) RSB2* - Rocker Switch Bracket with Two (2) Rocker Switches

T2HWK78DV

8 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with THW2 Altronix/Honeywell backplane
- One (1) AL1024XB2V - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2HWK712DV

12 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove2 enclosure with THW2 Altronix/Honeywell backplane and THWD2 Honeywell door backplane
- One (1) AL1024XB2V - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) ACM4CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T3HWK7516DV

16 Door Kit with PTC Outputs

Fully assembled kit includes:

- Trove3 enclosure with THW3 Altronix/Honeywell backplane and THWD2 Honeywell door backplane
- One (1) AL1024XB2V - Power Supply/Charger
- One (1) AL1012XB220 - Power Supply/Charger
- Two (2) ACM8CB - PTC Access Power Controllers
- One (1) PD8ULCB - PTC Power Distribution Module
- One (1) RSB2* - Rocker Switch Bracket with Two (2) Rocker Switches

Please refer to the included corresponding Sub-Assembly Installation Guides for further information.

Installation Guide

CE

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Rev. THWLK_011824

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove Honeywell 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 Honeywell modules for up to eight (T2HWK78(D)V), twelve (T2HWK712(D)V) or sixteen (T3HWK7516(D)V) doors in a single enclosure.

Configuration Chart:

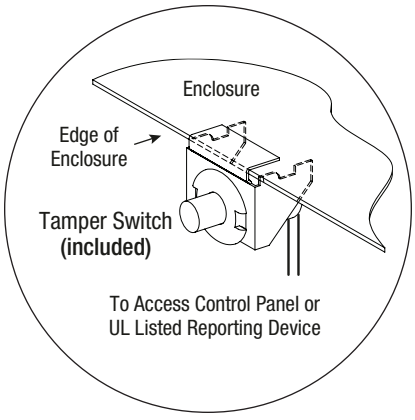
Altronix Model Number	220VAC 50/60Hz Input Current (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main Output on Power Supply board and ACM8(CB) and ACM4(CB) Access Power Controllers' outputs	Nominal DC Output Voltage Range (VDC)	Fail-Safe/Fail-Secure Outputs	Additional Fused (PTC) Outputs	ACM4(CB) Board Input Fuse (PTC) Rating	ACM8(CB) Board Output Fuse (PTC) Rating	ACM8(CB) Board Input Fuse Rating	ACM8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse(PTC) Rating	PD8UL(CB) Board Output Fuse (PTC) Rating
T2HWK78V	2.5	5A/ 250V	15A/ 32V	24VDC @ 9.7A	20.17-26.4	8	8	–	–	10A/ 250V	3.5A/ 250V	10A/ 32V	3A/ 32V	–
T2HWK78DV											2.5A	9A	2.5A	–
T2HWK712V	2.5			24VDC @ 9.7A	20.17-26.4	12	8	10A/ 250V	3A/ 32V	10A/ 250V				
T2HWK712DV								9A	2.5A					
T3HWK7516V	3.8			24VDC @ 9.4A	20.17-26.4	16	8	–	–	10A/ 250V	3.5A/ 250V	–	–	3.5A/ 250V
T3HWK7516DV				12VDC @ 10A	9.7-13.2						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 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 three holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the two/three upper screws. Install the three lower screws and make sure to tighten all screws.
3. Mount included UL Listed tamper switch (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. Connect unswitched AC power (220VAC 50/60Hz) 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 (220VAC 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.

Fig. 1



4. Mount Honeywell modules to backplane(s), refer to *pages 3 - 6*.
5. Refer to the *XBV Power Supply/Charger Installation Guide* for AL1024XB2V and AL1012XB220 and corresponding *Sub-Assembly Installation Guides* for ACM4(CB), ACM8(CB), PDS8(CB), VR6 and PD8UL(CB) for further installation instructions.

Hardware:

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

T2HWK78(D)V: Installation Instructions for Honeywell Access Controllers

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

Honeywell ProWatch/WinPak Access Controller Position Chart for the Following Models:

Honeywell Board	Pem Mounting
3200 Series or WIN-PAK Series	(A)
PW6K1ICE or PW6K1R1E	(B)

Fig. 2

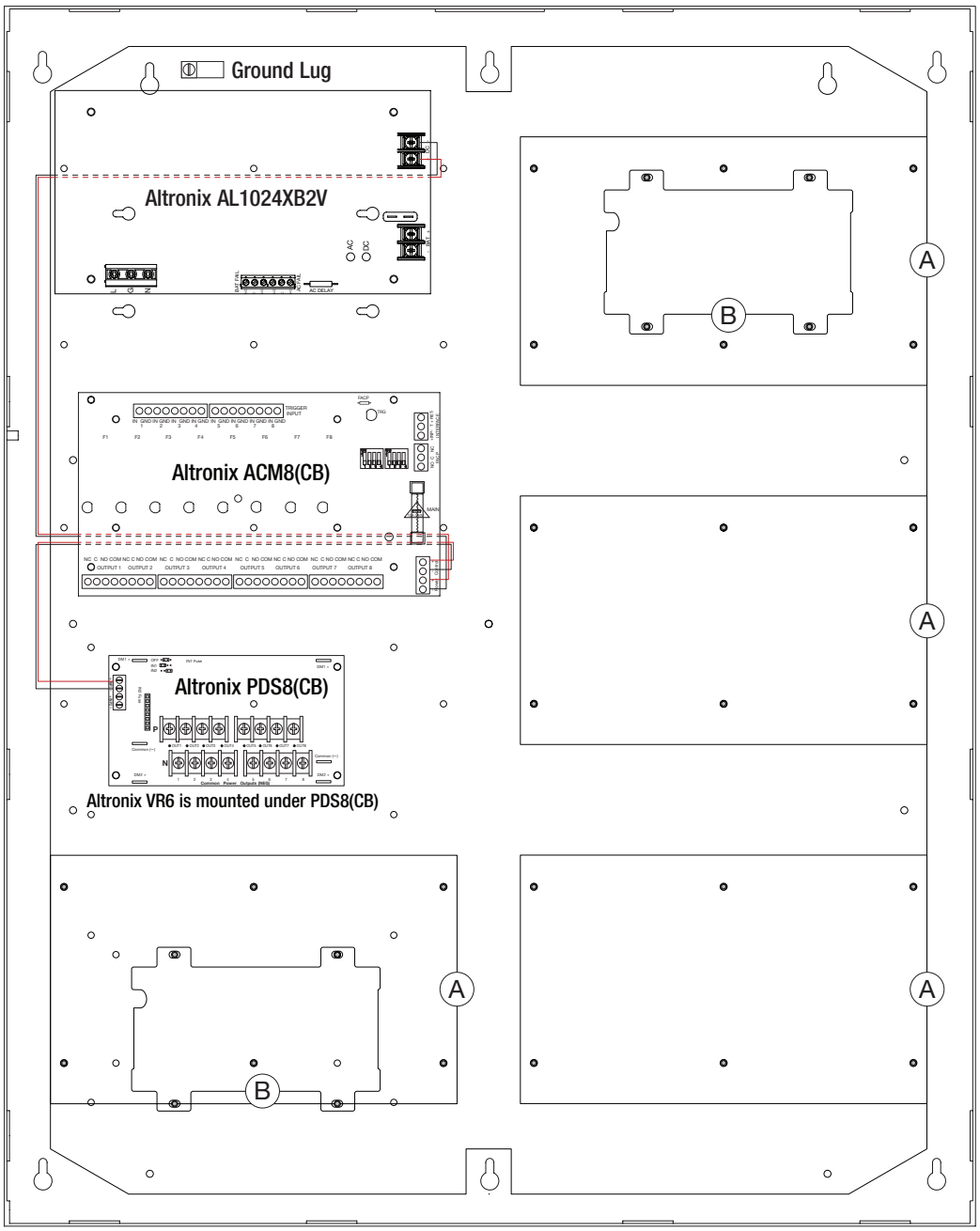
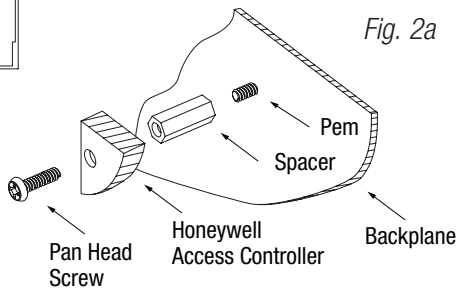


Fig. 2a



T2HWK712(D)V: Installation Instructions for Honeywell Access Controllers on THW2:

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

Honeywell ProWatch/WinPak Access Controller Position Chart for the Following Models:

Honeywell Board	Pem Mounting
3200 Series or WIN-PAK Series	(A)
PW6K1ICE or PW6K1R1E	(B)

Fig. 3

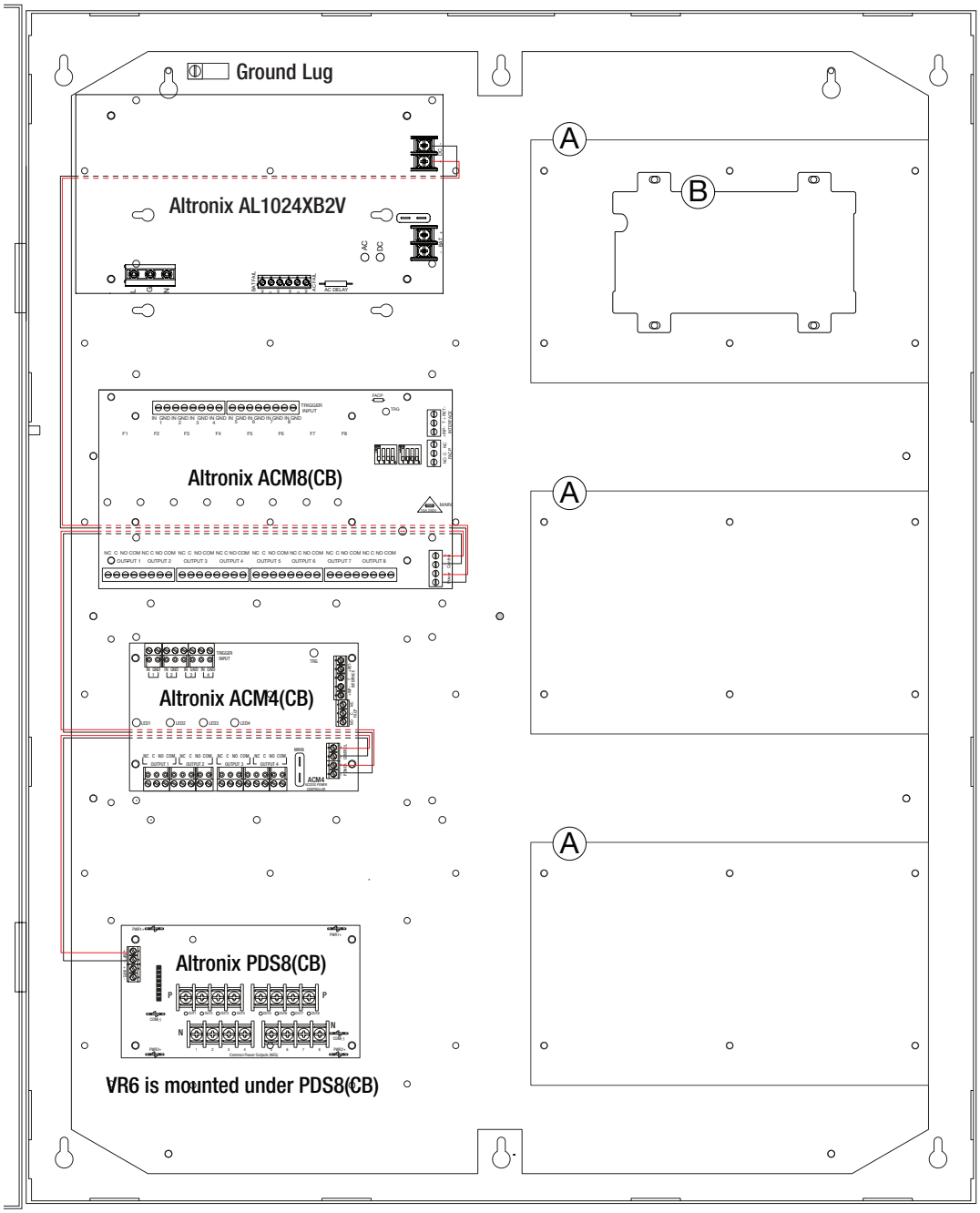
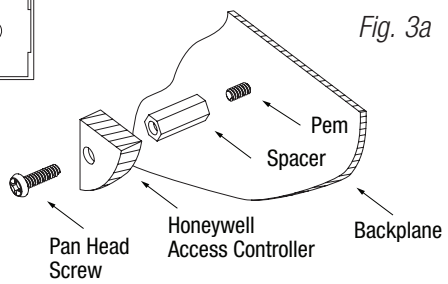


Fig. 3a



T3HWK7516(D)V: Installation Instructions for Honeywell Access Controllers

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

Honeywell ProWatch/WinPak Access Controller Position Chart for the Following Models:

Honeywell Board	Pem Mounting
3200 Series or WIN-PAK Series	(A)
PRO22MX8	(B)

Fig. 4

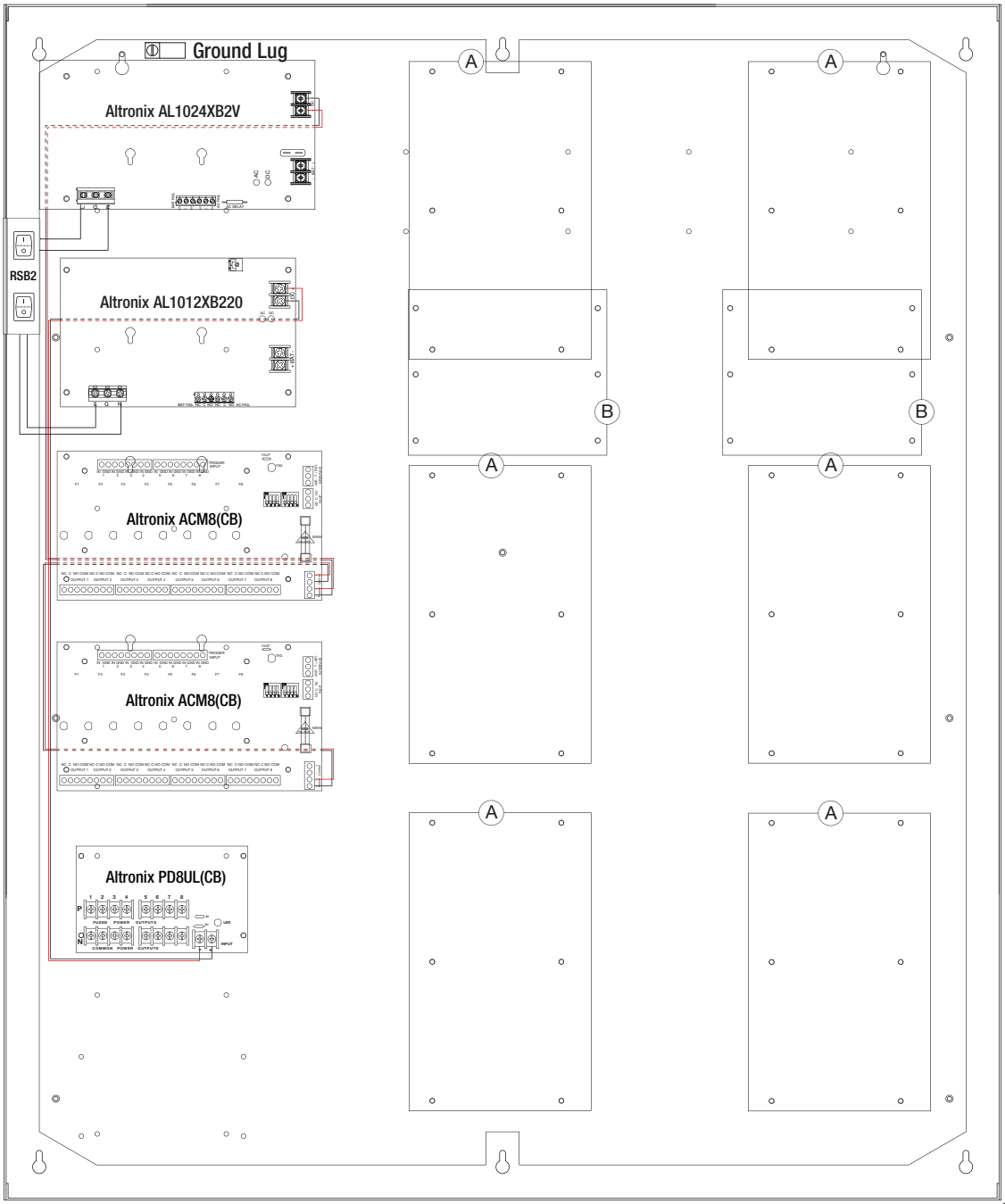
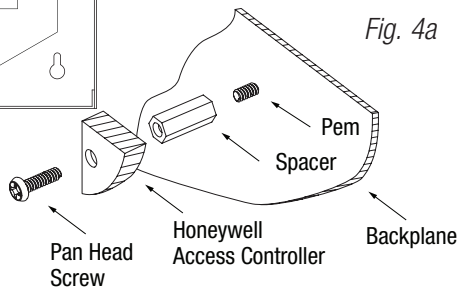


Fig. 4a



T2HWK712(D)V and T3HWK7516(D)V:
THWD2 (Door Backplane) Configuration of Honeywell ProWatch/WinPak Boards:

Honeywell ProWatch/WinPak Access Controllers:

1. Fasten spacers (provided) into pem configuration (A) or (B) of backplane *(Fig. 5, pg. 6)*.
2. Mount boards to spacers utilizing 5/16" pan head screws (provided) *(Fig. 5a, pg. 6)*.
3. Mount backplane to enclosure with hardware.

Honeywell ProWatch/WinPak Access Controller Position Chart for the Following Models:

Honeywell Board	Pem Mounting
3200 Series or WIN-PAK Series	(A)
PRO22MX8	(B)

Fig. 5

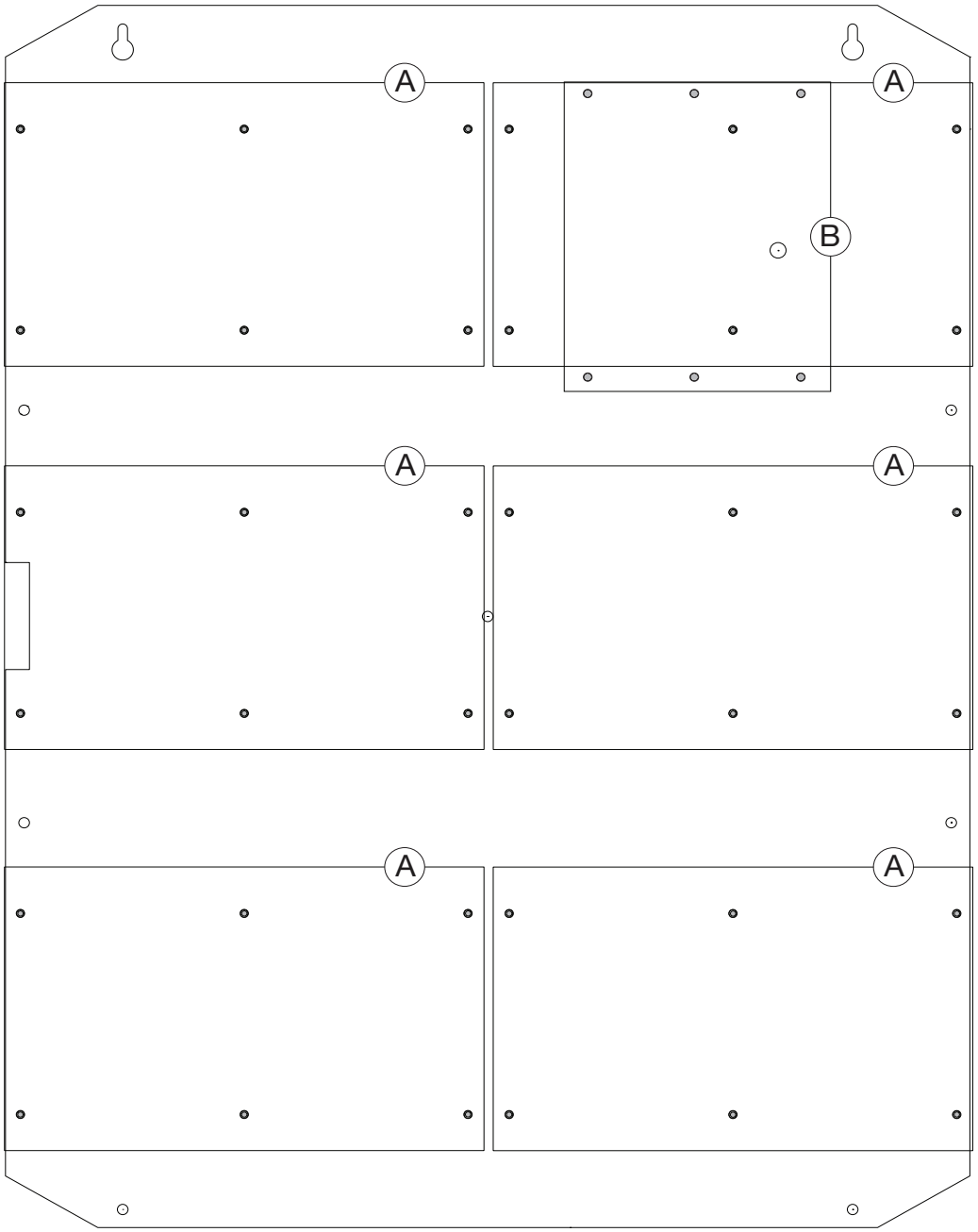
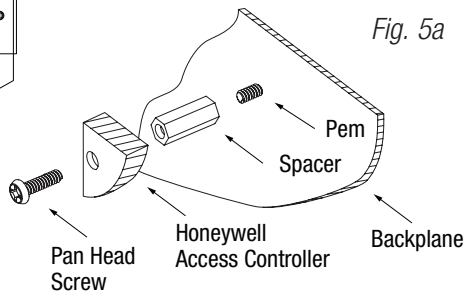
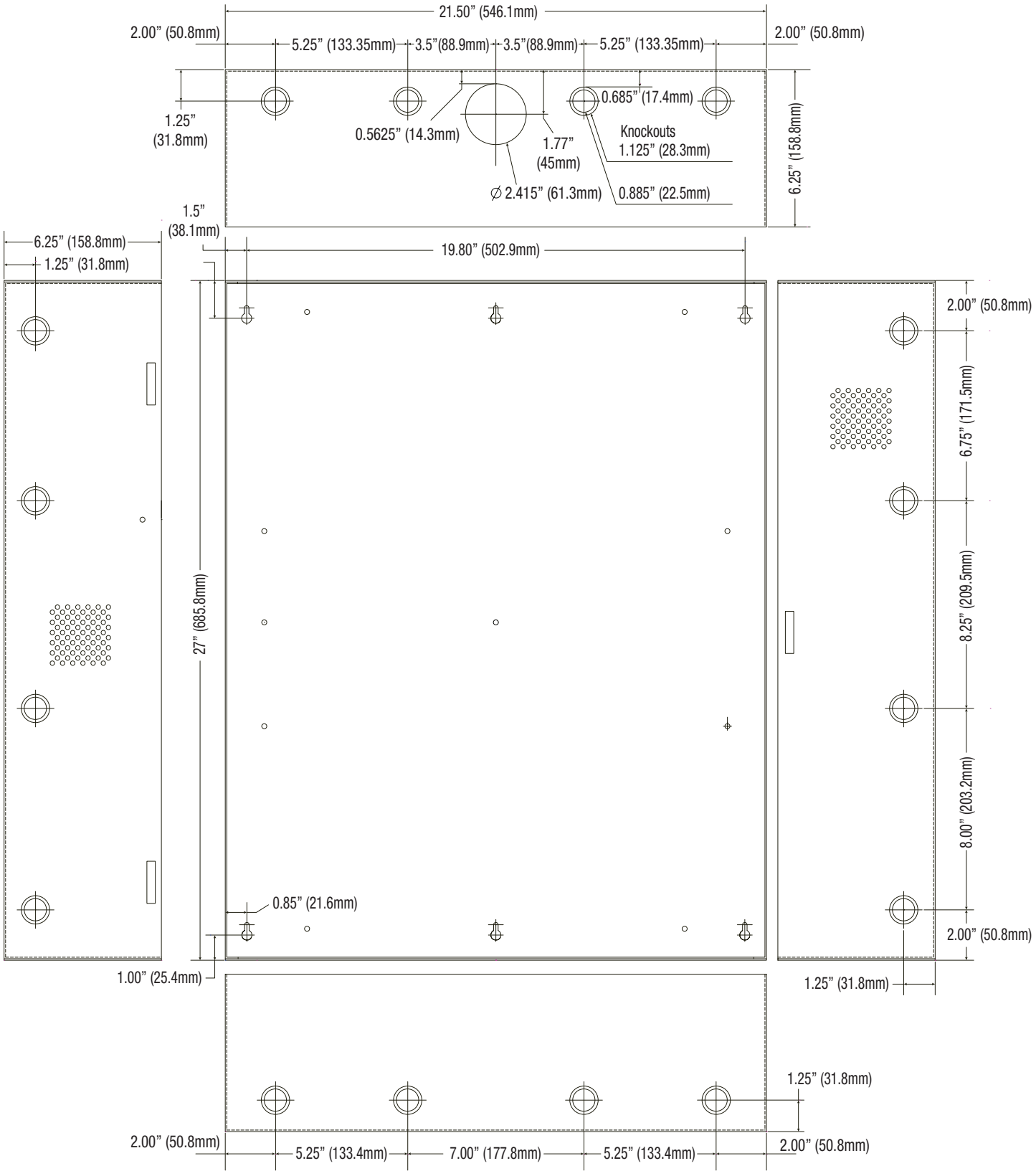


Fig. 5a



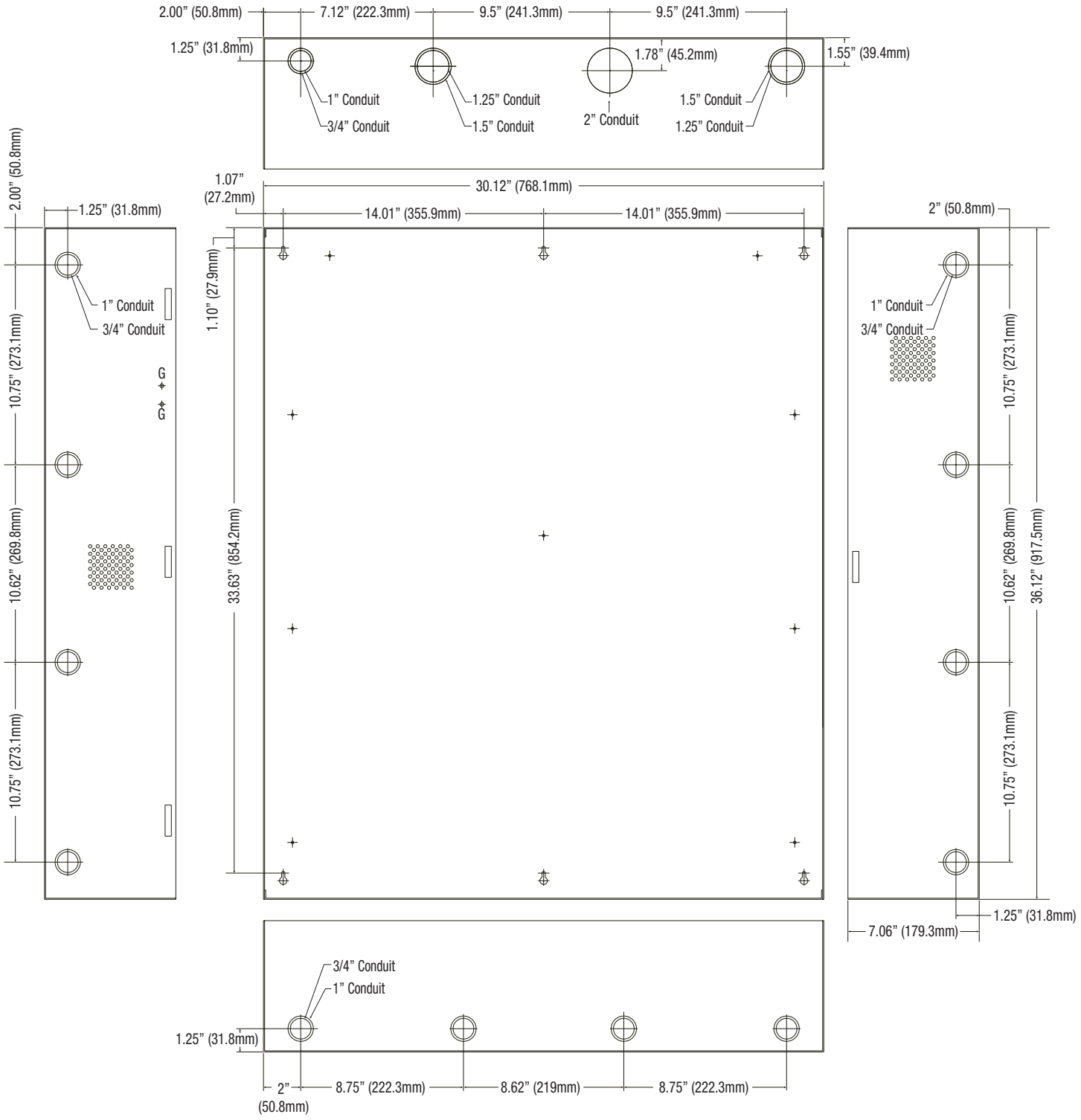
T2HWK78(D)V and T2HWK712(D)V (Trove2) Enclosure Dimensions (H x W x D approximate)**:**

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



T3HWK7516(D)V (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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