TROVE™

Access & Power Integration

Altronix/AMAG M4000 Kits

Models Include:

T2AGK3F8
8 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2AGK7F8S
8 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8 - Dual Input Fused Power Distribution Module

T2AGK7F12
12 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - 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

T2AGK7F12S
12 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8 - Dual Input 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

T2AGK75F12
12 Door Kit with Fused Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- One (1) ACM8 - Fused Access Power Controller
- One (1) ACM4 - Fused Access Power Controller
- One (1) PD4UL - Fused Power Distribution Module

T2AGK3F8D
8 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow6NB - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2AGK7F8SD
8 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input PTC Access Power Controller
- One (1) VR6 - Voltage Regulator
- One (1) PDS8CB - Dual Input PTC Power Distribution Module

T2AGK7F12D
12 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - 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

T2AGK7F12SD
12 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) ACMS8CB - Dual Input 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

T2AGK75F12D
12 Door Kit with PTC Outputs

Fully assembled kit includes:
- Trove2 enclosure with TAM2 Altronix/AMAG backplane
- One (1) eFlow104NB - Power Supply/Charger
- One (1) eFlow102NB - Power Supply/Charger
- One (1) ACM8CB - PTC Access Power Controller
- One (1) ACM4CB - PTC Access Power Controller
- One (1) PD4ULCB - PTC Power Distribution Module

Installation Guide

Altronix®

More than just power.™

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Rev. TAGK_121924

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix Trove AMAG kits are pre-assembled and consist of Trove enclosures/backplanes with factory installed Altronix power supply/chargers and sub-assemblies. Kits accommodate up to three (3) AMAG M4000 modules for up to twelve (12) doors in a single enclosure.

Configuration Chart:

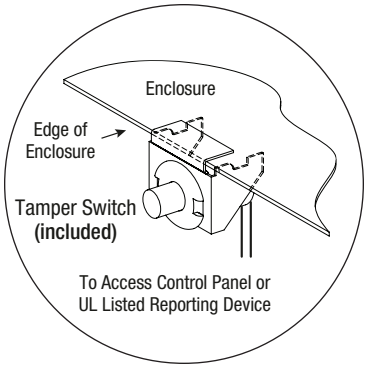
Altronix Model Number	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	120VAC 60Hz Input Current (A)	Maximum Supply Current for Main and Aux. Outputs on Power Supply board and Access Power Controllers' outputs	Nominal DC Output Voltage [DC] Output Range (VDC)	Nominal DC Output Voltage [Aux] Output Range (VDC)	Fail-Safe/Fail-Secure Outputs	Additional Fused (PTC) Outputs	ACM4(CB) Board Input Fuse (PTC) Rating	ACM4(CB) Board Output Fuse (PTC) Rating	ACM8(CB) Board Input Fuse Rating	ACM8(CB) Board Output Fuse (PTC) Rating	ACMS8(CB) Board Input Fuse Rating	ACMS8(CB) Board Output Fuse (PTC) Rating	PDS8(CB) Board Input Fuse (PTC) Rating	PDS8(CB) Board Output Fuse (PTC) Rating	PD4UL(CB) Board Output Fuse (PTC) Rating
T2AGK3F8	5A/250V	15A/32V	3.5	24VDC @ 5.4A	20.17-26.4	20.28-26.4	8	8	–	–	10A/250V	3.5A/250V	–	–	10A/32V	3A/32V	–
T2AGK3F8D									–	–	10A/250V	2.5A	–	–	9A	9A	–
T2AGK7F8S	6.3A/250V	15A/32V	4.5	24VDC @ 9.4A	20.17-26.4	20.28-26.4	8	8	–	–	–	–	15A/32V	3A/32V	10A/32V	3A/32V	–
T2AGK7F8SD									–	–	–	–	9A	9A	9A	9A	–
T2AGK7F12	6.3A/250V	15A/32V	4.5	24VDC @ 9.4A	20.17-26.4	20.28-26.4	12	8	10A/32V	3A/32V	10A/250V	3.5A/250V	–	–	10A/32V	3A/32V	–
T2AGK7F12D									9A	2.5A	10A/250V	2.5A	–	–	9A	9A	–
T2AGK7F12S	6.3A/250V	15A/32V	4.5	24VDC @ 9.4A	20.17-26.4	20.28-26.4	12	8	10A/32V	3A/32V	–	–	15A/32V	3A/32V	10A/32V	3A/32V	–
T2AGK7F12SD									9A	2.5A	–	–	9A	9A	9A	9A	–
T2AGK75F12	eFlow104NB 6.3A/250V	15A/32V	7.5	24VDC @ 9.4A	20.17-26.4	20.28-26.4	12	4	10A/32V	3A/32V	10A/250V	3.5A/250V	–	–	–	–	3.5A/250V
T2AGK75F12D	eFlow102NB 5A/250V			12VDC @ 10A	9.7-13.2	10.03-13.2			9A	2.5A	10A/250V	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.
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 (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 (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 AMAG M4000 modules to TAM2 backplane, refer to *page 3-7*.
7. Refer to the *eFlow Power Supply/Charger Installation Guide* for eFlow6NB, eFlow102NB,eFlow104NB, and corresponding *Sub-Assembly Installation Guides* for the following models:
   ACM4(CB), ACM8(CB), ACMS8(CB), PD4UL(CB), PDS8(CB) and VR6 for further installation instructions.

Fig. 1



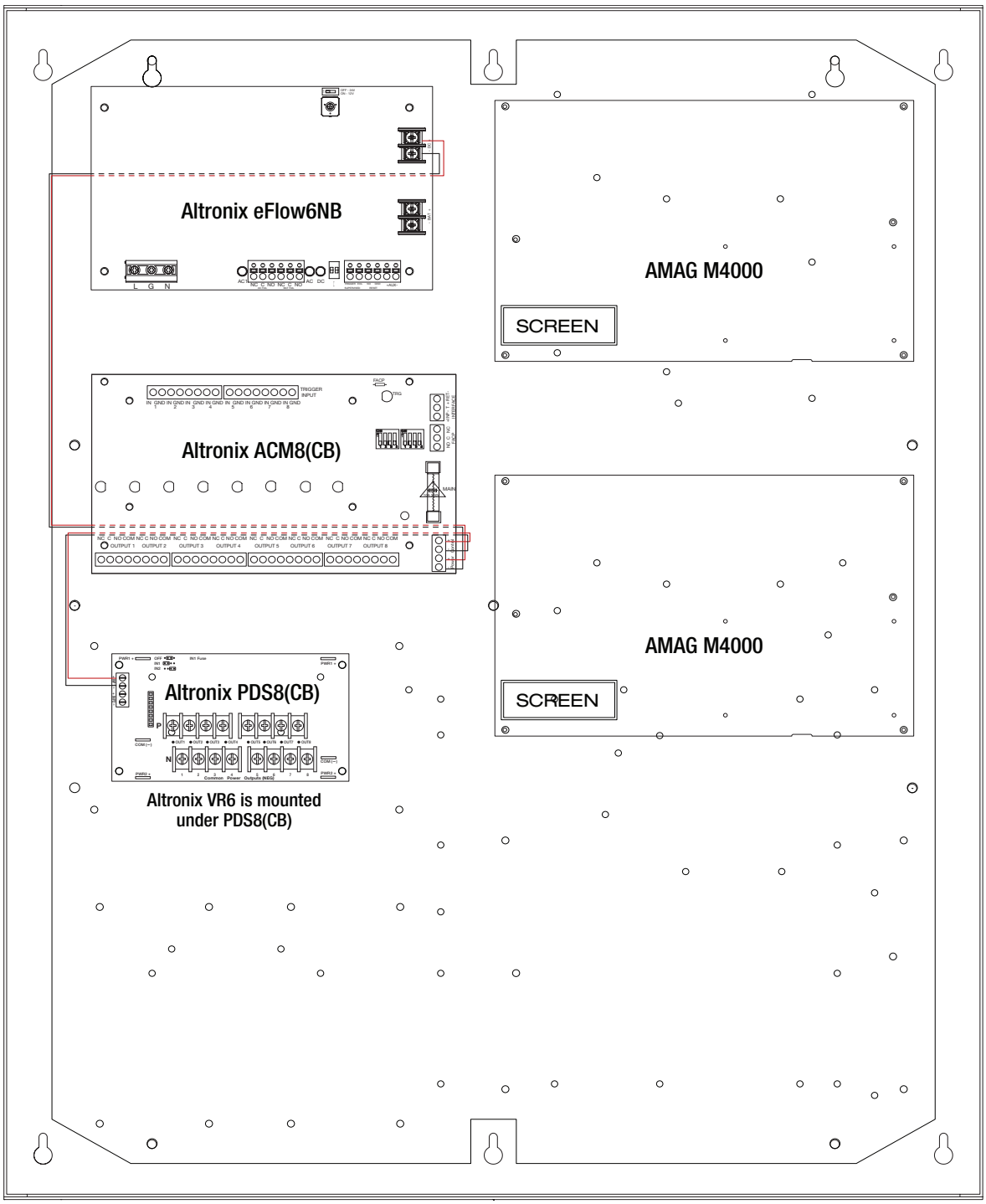
Hardware:

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

T2AGK3F8(D): Configuration of AMAG M4000 Modules:

1. Align the AMAG M4000 modules on the backplane to match the boards to the holes in the backplane
2. Push 5/16" pan head screws (provided) from the back of the backplane through the holes that match the pattern for AMAG M4000 modules. Attach spacers to the screws *(Fig. 2a, pg. 3)*.
3. Mount AMAG M4000 modules to spacers utilizing pan head screws (provided) *(Fig. 2a, pg. 3)*.
   Note: AMAG M4000 modules have one (1) screen. Please make sure that they are mounted correctly, as shown in *Fig. 2* below.
4. Fasten TAM2 backplane to Trove2 enclosure utilizing hardware (provided).

Fig. 2 - **T2AGK3F8(D) Configuration**



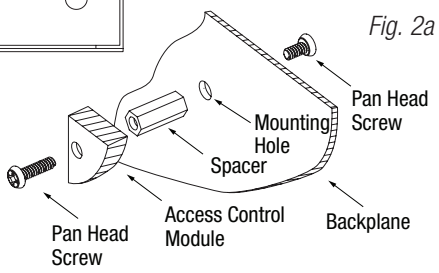
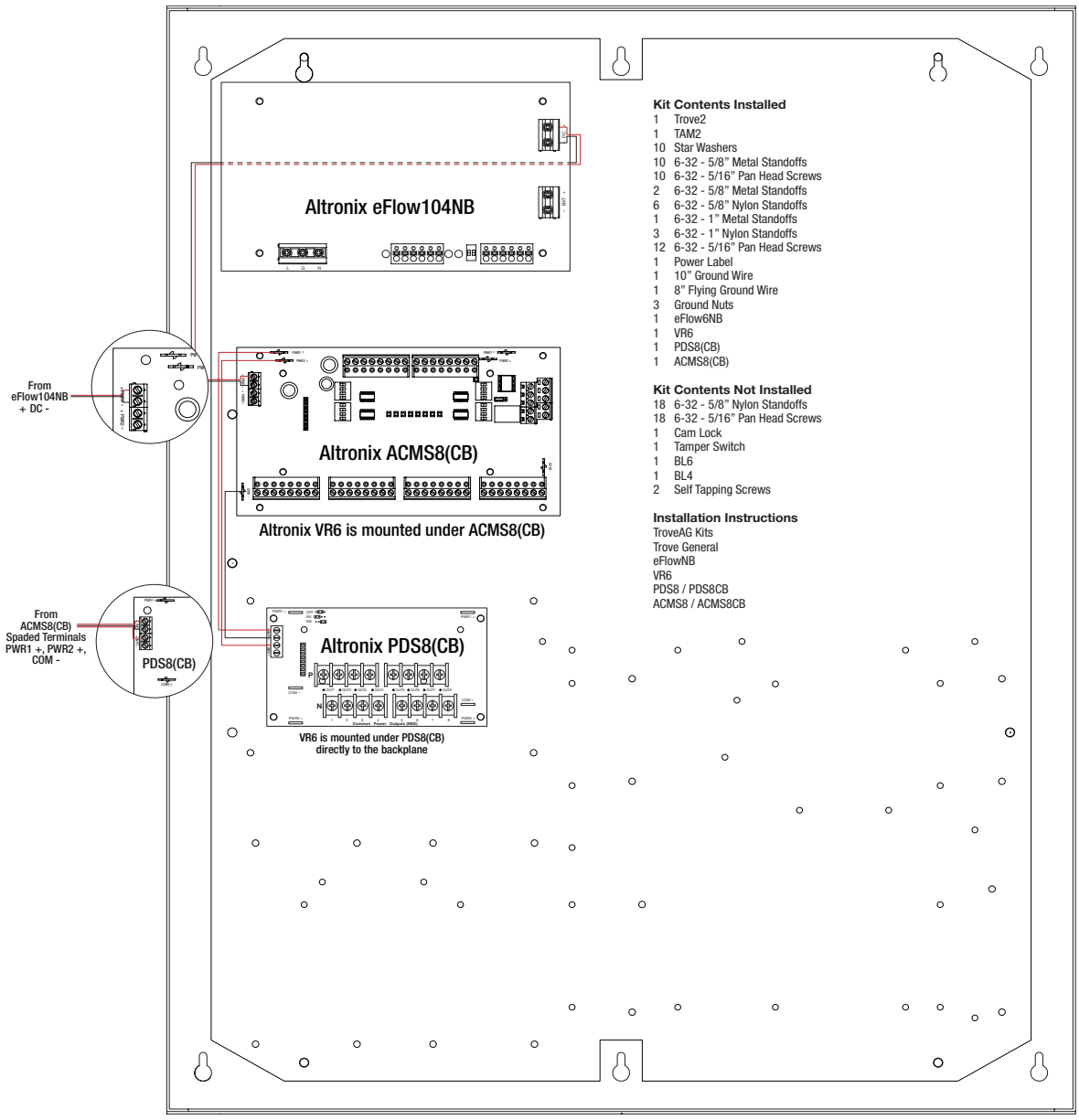


Fig. 2a

T2AGK7F8S(D): Configuration of AMAG M4000 Modules:

1. Align the AMAG M4000 modules on the backplane to match the boards to the holes in the backplane
2. Push 5/16" pan head screws (provided) from the back of the backplane through the holes that match the pattern for AMAG M4000 modules. Attach spacers to the screws *(Fig. 3a, pg. 4)*.
3. Mount AMAG M4000 modules to spacers utilizing pan head screws (provided) *(Fig. 3a, pg. 4)*.
   Note: AMAG M4000 modules have one (1) screen. Please make sure that they are mounted correctly, as shown in *Fig. 3* below.
4. Fasten TAM2 backplane to Trove2 enclosure utilizing hardware (provided).

Fig. 3 - **T2AGK7F8S(D) Configuration**



Kit Contents Installed

1	Trove2
1	TAM2
10	Star Washers
10	6-32 - 5/8" Metal Standoffs
10	6-32 - 5/16" Pan Head Screws
2	6-32 - 5/8" Metal Standoffs
6	6-32 - 5/8" Nylon Standoffs
1	6-32 - 1" Metal Standoffs
3	6-32 - 1" Nylon Standoffs
12	6-32 - 5/16" Pan Head Screws
1	Power Label
1	10" Ground Wire
1	8" Flying Ground Wire
3	Ground Nuts
1	eFlow6NB
1	VR6
1	PDS8(CB)
1	ACMS8(CB)

Kit Contents Not Installed

18	6-32 - 5/8" Nylon Standoffs
18	6-32 - 5/16" Pan Head Screws
1	Cam Lock
1	Tamper Switch
1	BL6
1	BL4
2	Self Tapping Screws

Installation Instructions
TroveAG Kits
Trove General
eFlowNB
VR6
PDS8 / PDS8CB
ACMS8 / ACMS8CB

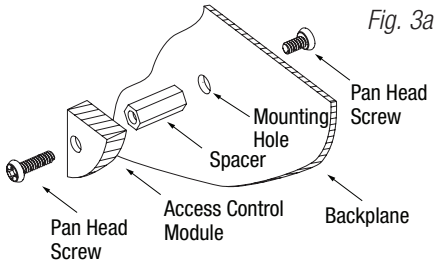
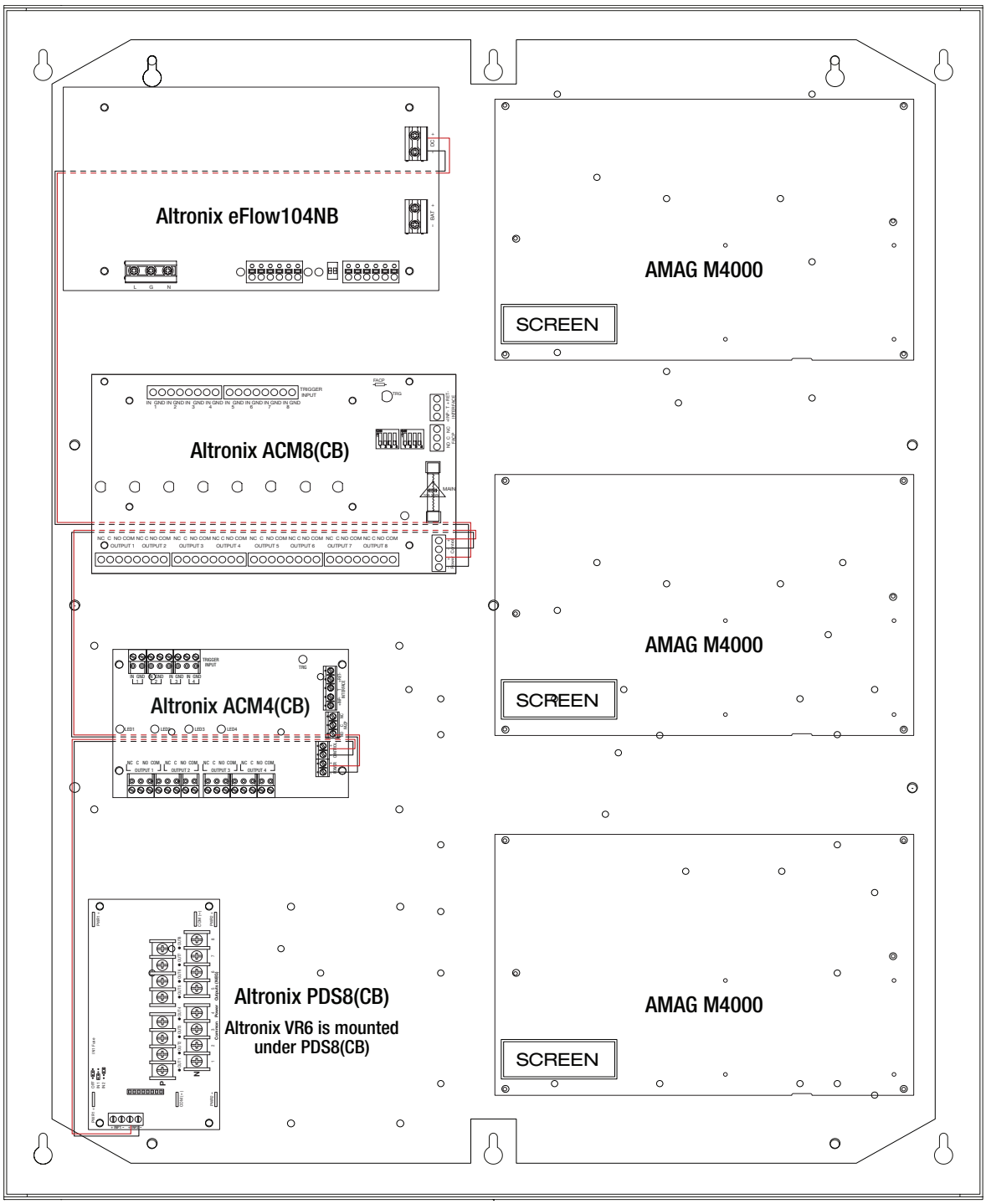


Fig. 3a

T2AGK7F12(D): Configuration of AMAG M4000 Modules:

1. Align the AMAG M4000 modules on the backplane to match the boards to the holes in the backplane
2. Push 5/16" pan head screws (provided) from the back of the backplane through the holes that match the pattern for AMAG M4000 modules. Attach spacers to the screws *(Fig. 4a, pg. 5)*.
3. Mount AMAG M4000 modules to spacers utilizing pan head screws (provided) *(Fig. 4a, pg. 5)*.
   Note: AMAG M4000 modules have one (1) screen. Please make sure that they are mounted correctly, as shown in *Fig. 4* below.
4. Fasten TAM2 backplane to Trove2 enclosure utilizing hardware (provided).

Fig. 4 - **T2AGK7F12(D) Configuration**



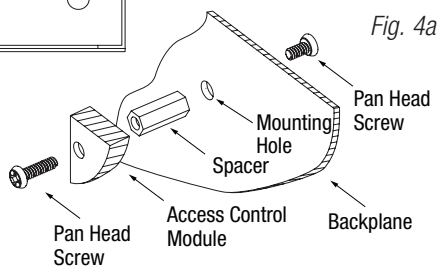
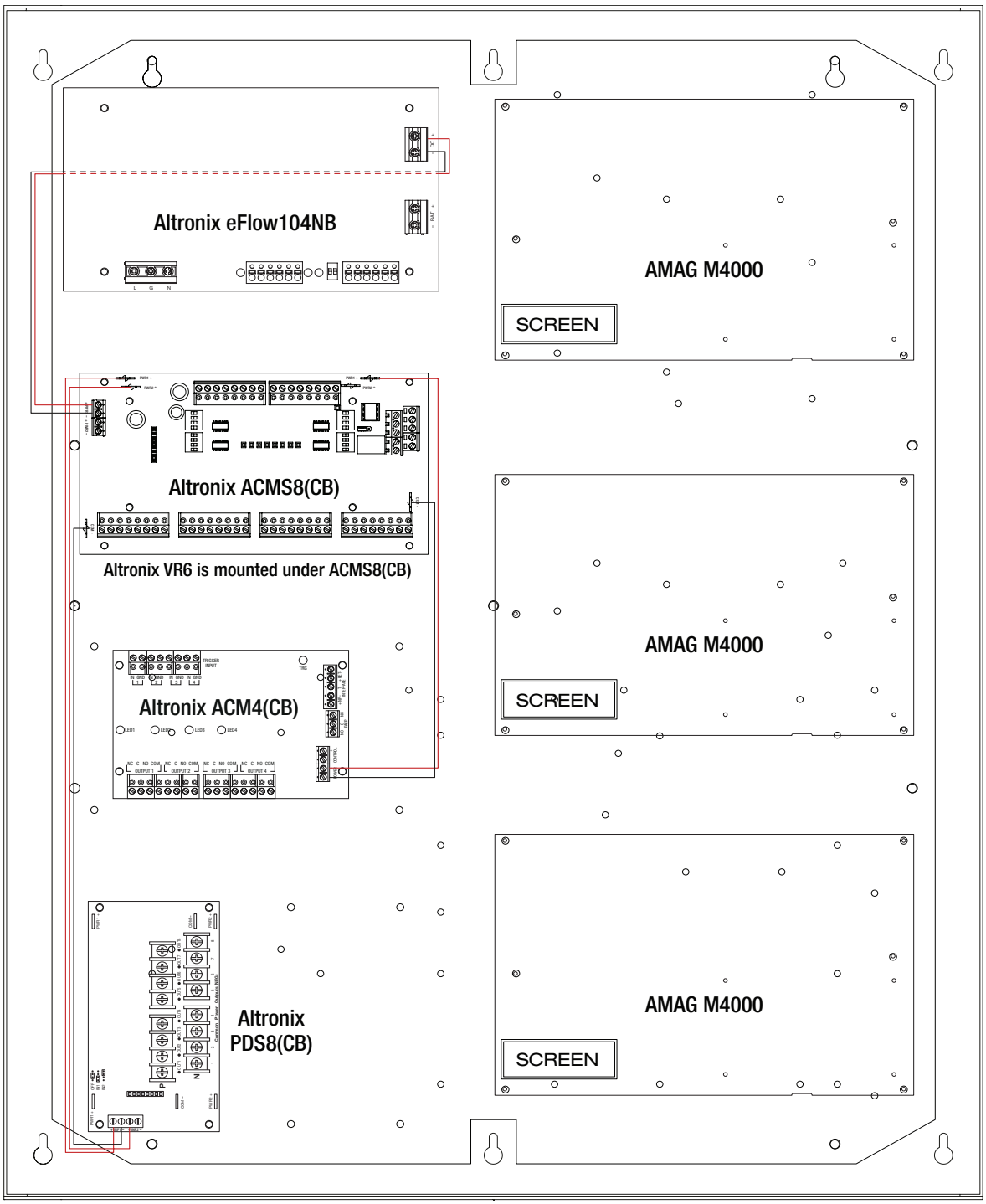


Fig. 4a

T2AGK7F12S(D): Configuration of AMAG M4000 Modules:

1. Align the AMAG M4000 modules on the backplane to match the boards to the holes in the backplane
2. Push 5/16" pan head screws (provided) from the back of the backplane through the holes that match the pattern for AMAG M4000 modules. Attach spacers to the screws *(Fig. 5a, pg. 6)*.
3. Mount AMAG M4000 modules to spacers utilizing pan head screws (provided) *(Fig. 5a, pg. 6)*.
   Note: AMAG M4000 modules have one (1) screen. Please make sure that they are mounted correctly, as shown in *Fig. 5* below.
4. Fasten TAM2 backplane to Trove2 enclosure utilizing hardware (provided).

Fig. 5 - **T2AGK7F12S(D) Configuration**



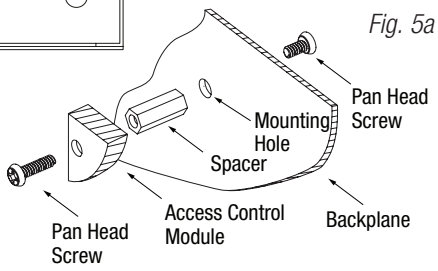


Fig. 5a

T2AGK75F12(D): Configuration of AMAG M4000 Modules:

1. Align the AMAG M4000 modules on the backplane to match the boards to the holes in the backplane
2. Push 5/16" pan head screws (provided) from the back of the backplane through the holes that match the pattern for AMAG M4000 modules. Attach spacers to the screws *(Fig. 6a, pg. 7)*.
3. Mount AMAG M4000 modules to spacers utilizing pan head screws (provided) *(Fig. 6a, pg. 7)*.
   Note: AMAG M4000 modules have one (1) screen. Please make sure that they are mounted correctly, as shown in *Fig. 6* below.
4. Fasten TAM2 backplane to Trove2 enclosure utilizing hardware (provided).

Fig. 6 - **T2AGK75F12(D) Configuration**

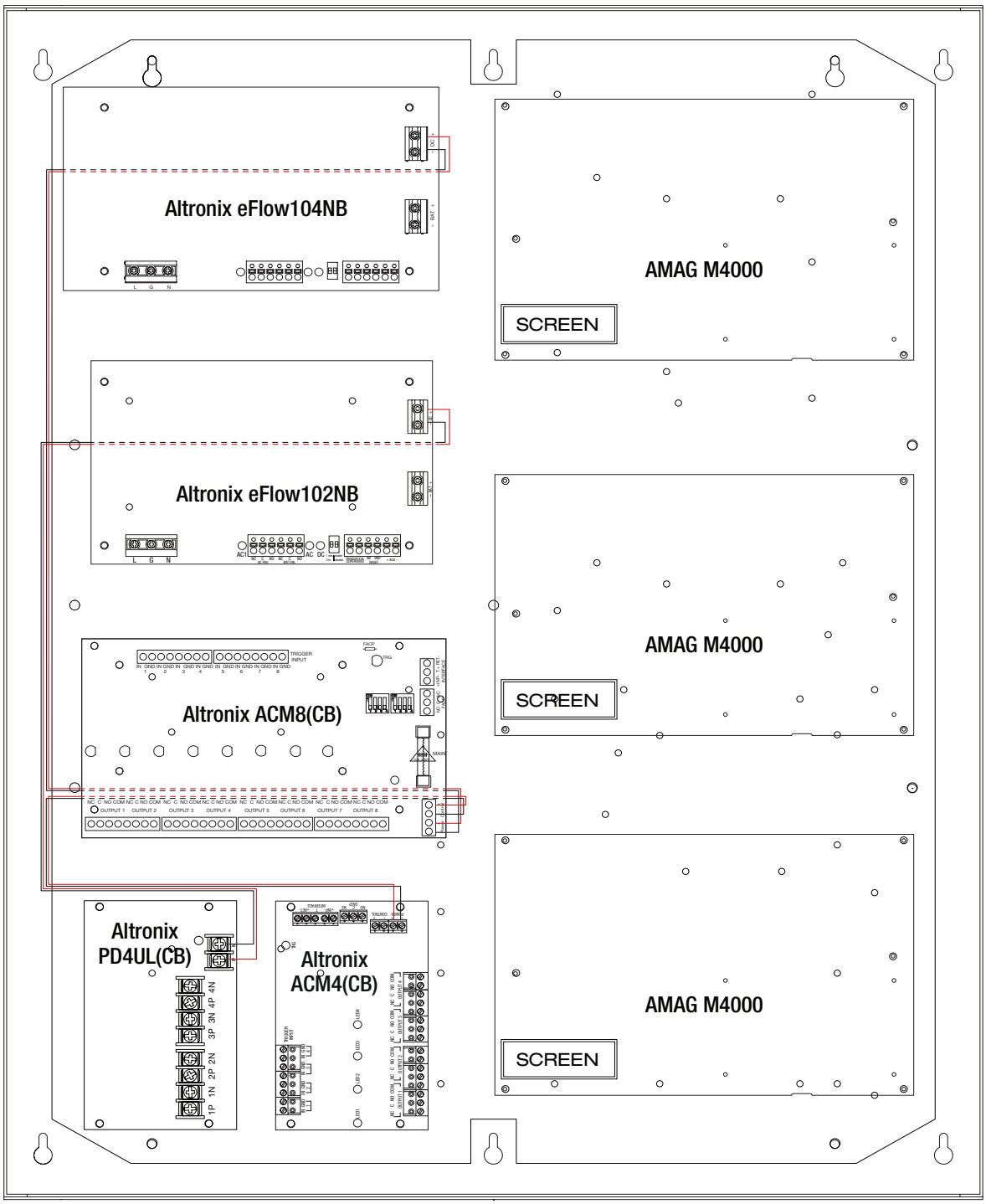
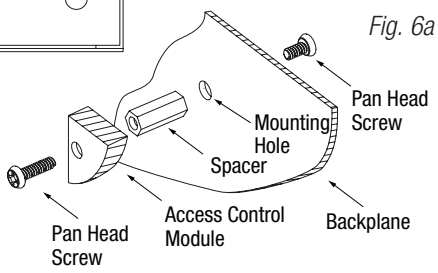
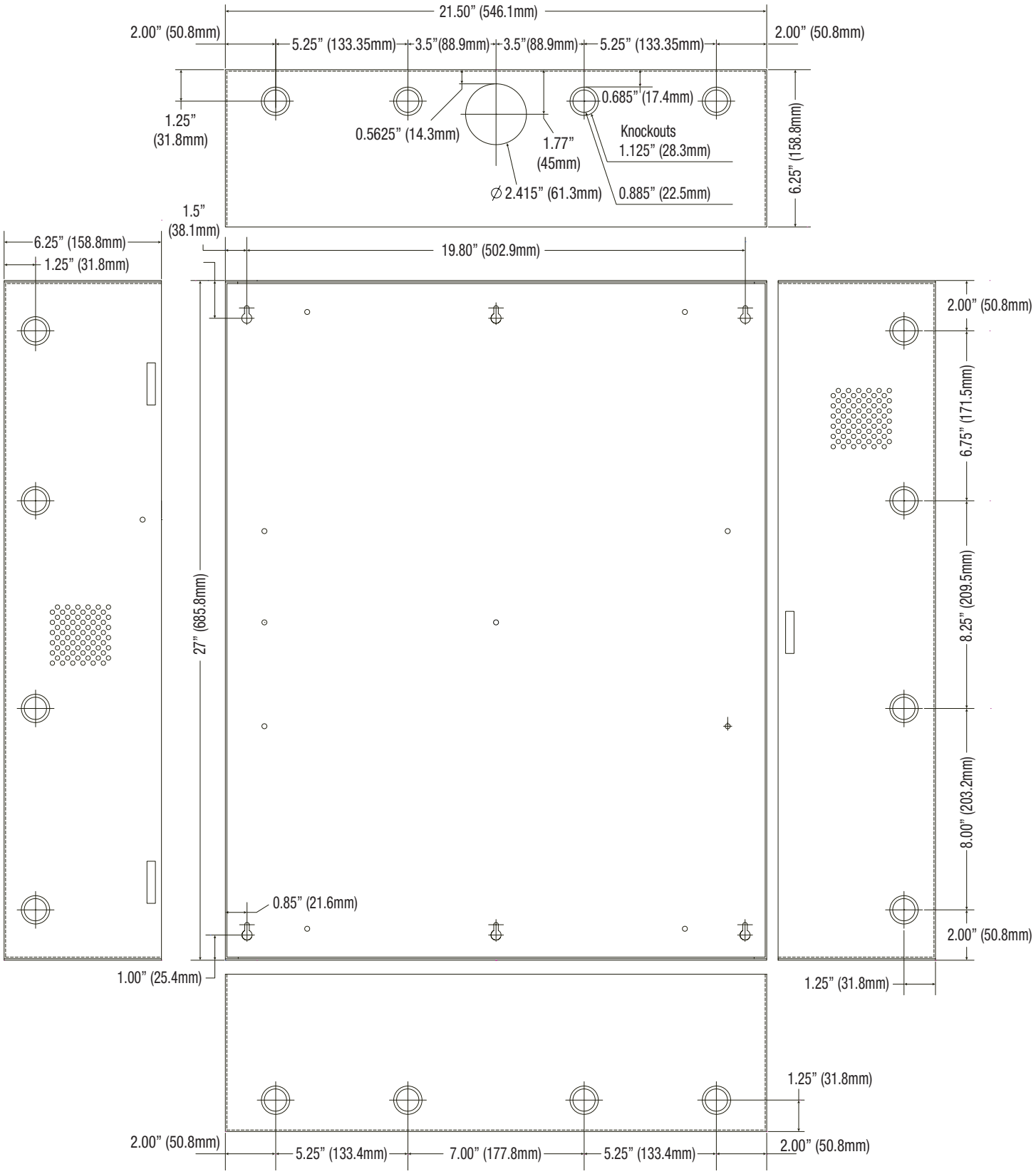


Fig. 6a



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

27.25” x 21.5” x 6.5” (692.15mm x 546.1mm x 165.1mm)



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