Obrivo®

Access & Power Integration

T1BVT4
4 Door Kit with Fused Outputs
Fully assembled kit includes:
- Trove1 enclosure with TBV1 Altronix/Brivo backplane
- One (1) Tango1B - PoE Driven Power Supply with Lithium Battery Backup
- One (1) ACMS8 - Dual Input Fused Access Power Controller

T1BV34S
4 Door Kit with Fused Outputs
Fully assembled kit includes:
- Trove1 enclosure with TBV1 Altronix/Brivo backplane
- One (1) AL600ULXB - Power Supply/Charger
- One (1) ACM4 - Fused Access Power Controller
- One (1) VR6 - Voltage Regulator

T2BV78S
8 Door Kit with Fused Outputs
Fully assembled kit includes:
- Trove2 enclosure with TBV2 Altronix/Brivo backplane
- One (1) AL1024ULXB2 - Power Supply/Charger
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- One (1) VR6 - Voltage Regulator

T2BV778S
8 Door Kit with Fused Outputs
Fully assembled kit includes:
- Trove2 enclosure with TBV2 Altronix/Brivo backplane
- Two (2) AL1024ULXB2 - Power Supply/Chargers
- One (1) ACMS8 - Dual Input Fused Access Power Controller
- One (1) PDS8 - Dual Input Fused Power Distribution Module
- Two (2) VR6 - Voltage Regulators

T3BV7716S
16 Door Kit with Fused Outputs
Fully assembled kit includes:
- Trove3 enclosure with TBV3 Altronix/Brivo backplane
- Two (2) AL1024ULXB2 - Power Supply/Chargers
- Two (2) ACMS8 - Dual Input Fused Access Power Controllers
- Two (2) PDS8 - Dual Input Fused Power Distribution Modules
- Two (2) VR6 - Voltage Regulators
- 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

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Rev. TBVK_04032023

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Overview:

Altronix/Brivo Trove 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 Brivo boards for up to sixteen (16) doors in a single enclosure.
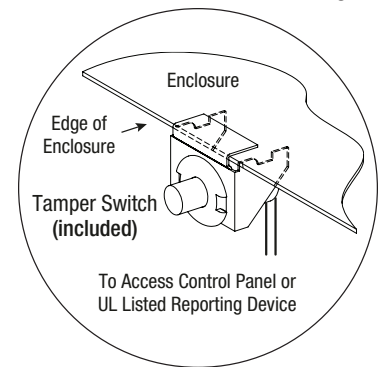
Configuration Chart:

Altronix Model Number	Input	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	Maximum Supply Current for Main Outputs on Power Supply board and ACM4/ACMS8 Access Power Controllers' outputs	Nominal DC Output Voltage Range (VDC)	Fail-Safe/Fail-Secure or Dry Form "C" Outputs	Additional Fuse Protected Outputs	ACM4 Board Input Fuse Rating	ACM4 Board Output Fuse Rating	ACMS8 Board Input Fuse Rating	ACMS8 Board Output Fuse Rating	PD8S8 Board Input Fuse Rating	PD8S8 Board Output Fuse Rating
T1BVT4	PoE up to 90W	N/A	10A/32V	12VDC @ 5A 24VDC @ 3A	20.17-26.4	8	–	–	–	15A/32V	3A/32V	–	–
T1BV34S	115VAC 60Hz, 3.5A	5A/250V	N/A	24VDC @ 5.9A	20.17-26.4	4	–	10A/32V	3A/32V	–	–	–	–
T2BV78S	115VAC 60Hz, 4.2A	5A/250V	15A/32V	24VDC @ 9.4A	20.17-26.4	8	8	–	–	15A/32V	3A/32V	10A/32V	3A/32V
T2BV778S	115VAC 60Hz, 8.8A	5A/250V	15A/32V	24VDC @ 9.4A + 24VDC @ 9.4A	20.17-26.4	8	8	–	–	15A/32V	3A/32V	10A/32V	3A/32V
T3BV7716S	115VAC 60Hz, 8.8A	5A/250V	15A/32V	24VDC @ 9.4A + 24VDC @ 9.4A	20.17-26.4 9.7-13.2	16	16	–	–	15A/32V	3A/32V	10A/32V	3A/32V

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.
4. Mount Brivo boards to backplane, *refer to pages 3-7.*
5. Refer to the *Power Supply/Charger Installation Guide* (Tango1B, AL600ULXB, AL1024ULXB2) and corresponding *Sub-Assembly Installation Guide* (ACM4, ACMS8, PDS8, VR6) for further installation instructions.

Fig. 1

Enclosure

Edge of Enclosure

Tamper Switch **(included)**

To Access Control Panel or UL Listed Reporting Device

T1BVT4: Configuration of Brivo Controls Boards:

1. Align the Brivo board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Brivo board *(Fig. 2, 2a, pg. 3)*.
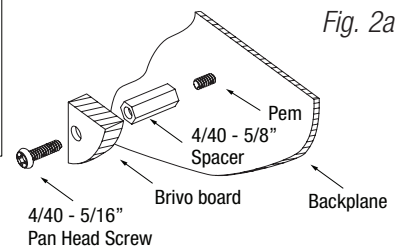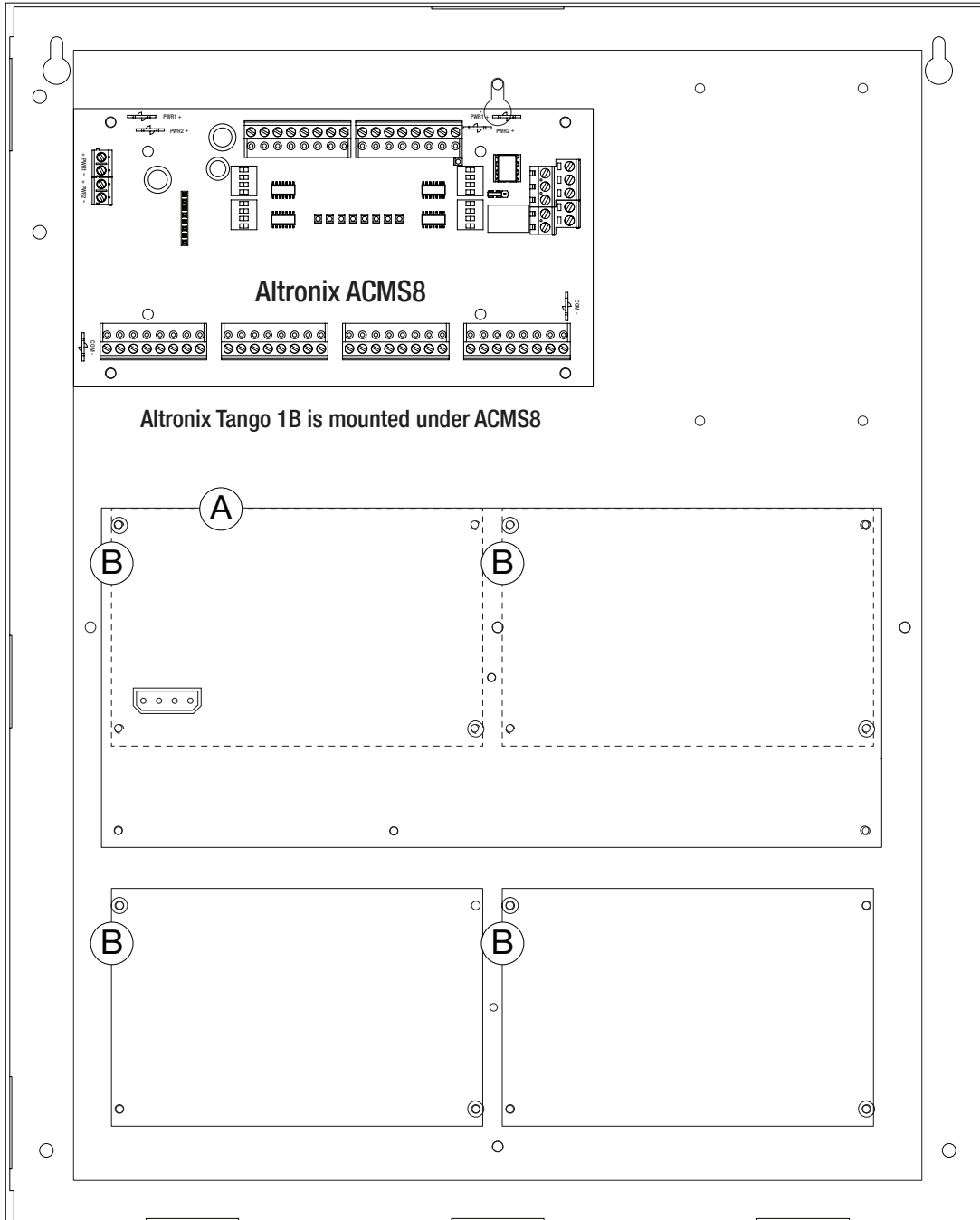   **Note:** Brivo board must be properly grounded.
    Please use provided metal spacers for the lower right mounting holes *(Fig. 2, pg. 3)*.
3. Mount Brivo board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 2a, pg. 3)*.
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Brivo Access Controller	Pem Mounting
ACS6000-MBE	Ⓐ
ACS6100-DB, ACS6100-IO	Ⓑ

Fig. 2 - **T1BVT4 Configurations**

Fig. 2a

T1BV34S: Configuration of Brivo Controls Boards:

1. Align the Brivo board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Brivo board *(Fig. 3, 3a, pg. 4)*.
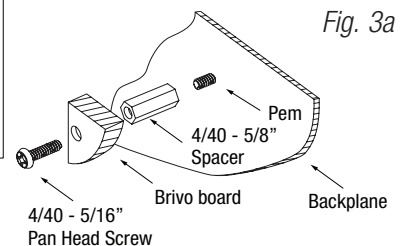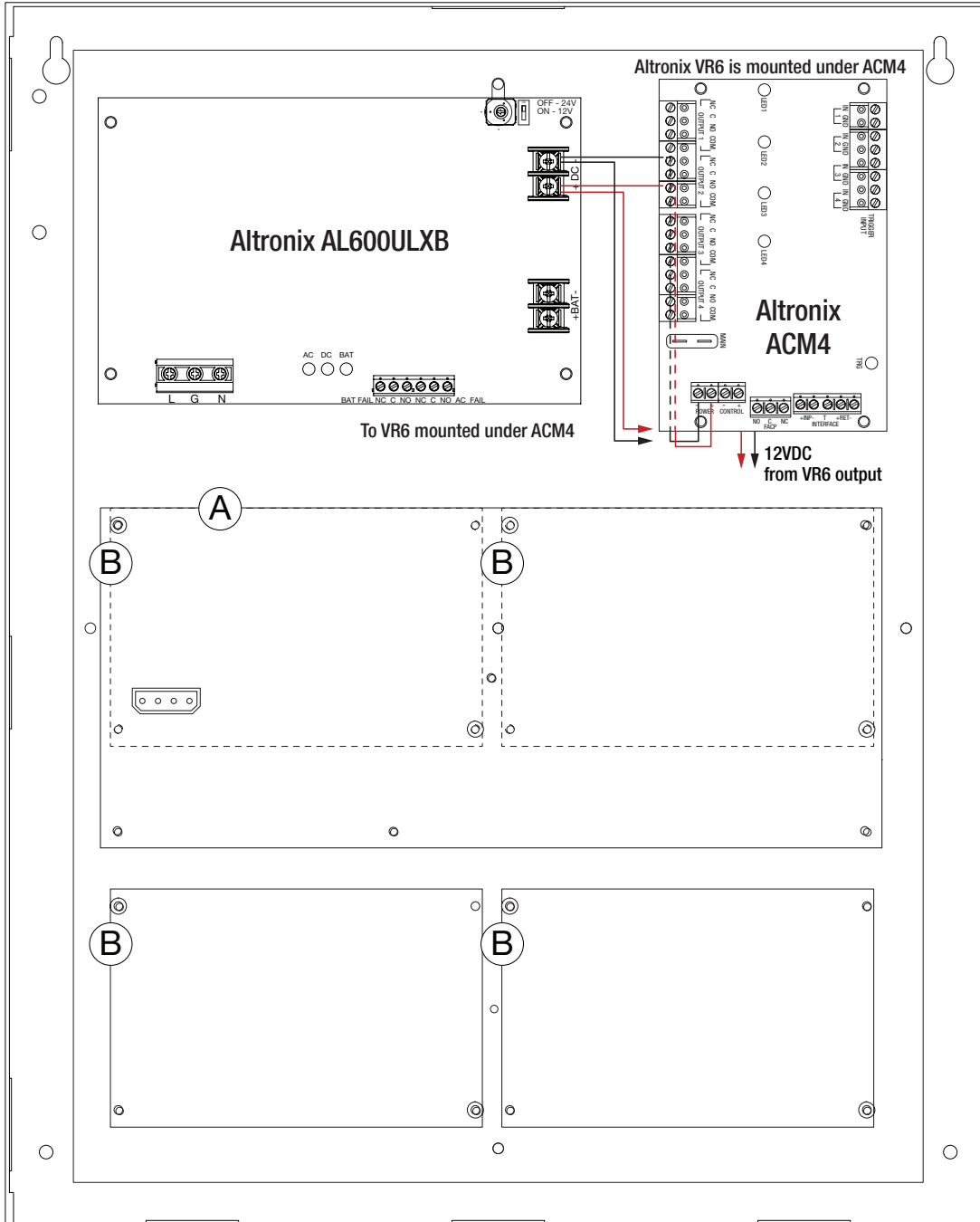   **Note:** Brivo board must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes *(Fig. 3, pg. 4)*.
3. Mount Brivo board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 3a, pg. 4)*.
4. Fasten backplane to Trove1 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Brivo Access Controller	Pem Mounting
ACS6000-MBE	Ⓐ
ACS6100-DB, ACS6100-IO	Ⓑ

Fig. 3 - **T1BV34S Configurations**

Fig. 3a

T2BV78S: Configuration of Brivo Controls Boards:

1. Align the Brivo board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Brivo board *(Fig. 4, 4a, pg. 5)*.
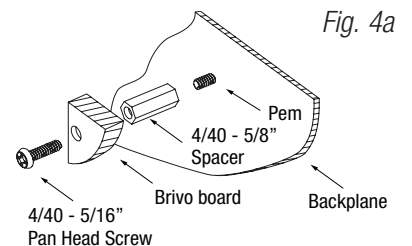   **Note:** Brivo board must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes *(Fig. 4, pg. 5)*.
3. Mount Brivo board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 4a, pg. 5)*.
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Brivo Access Controller	Pem Mounting
ACS6000-MBE	Ⓐ
ACS6100-DB, ACS6100-IO	Ⓑ

Fig. 4 - **T2BV78S Configurations**

Fig. 4a

T2BV778S: Configuration of Brivo Controls Boards:

1. Align the Brivo board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Brivo board *(Fig. 5, 5a, pg. 6)*.
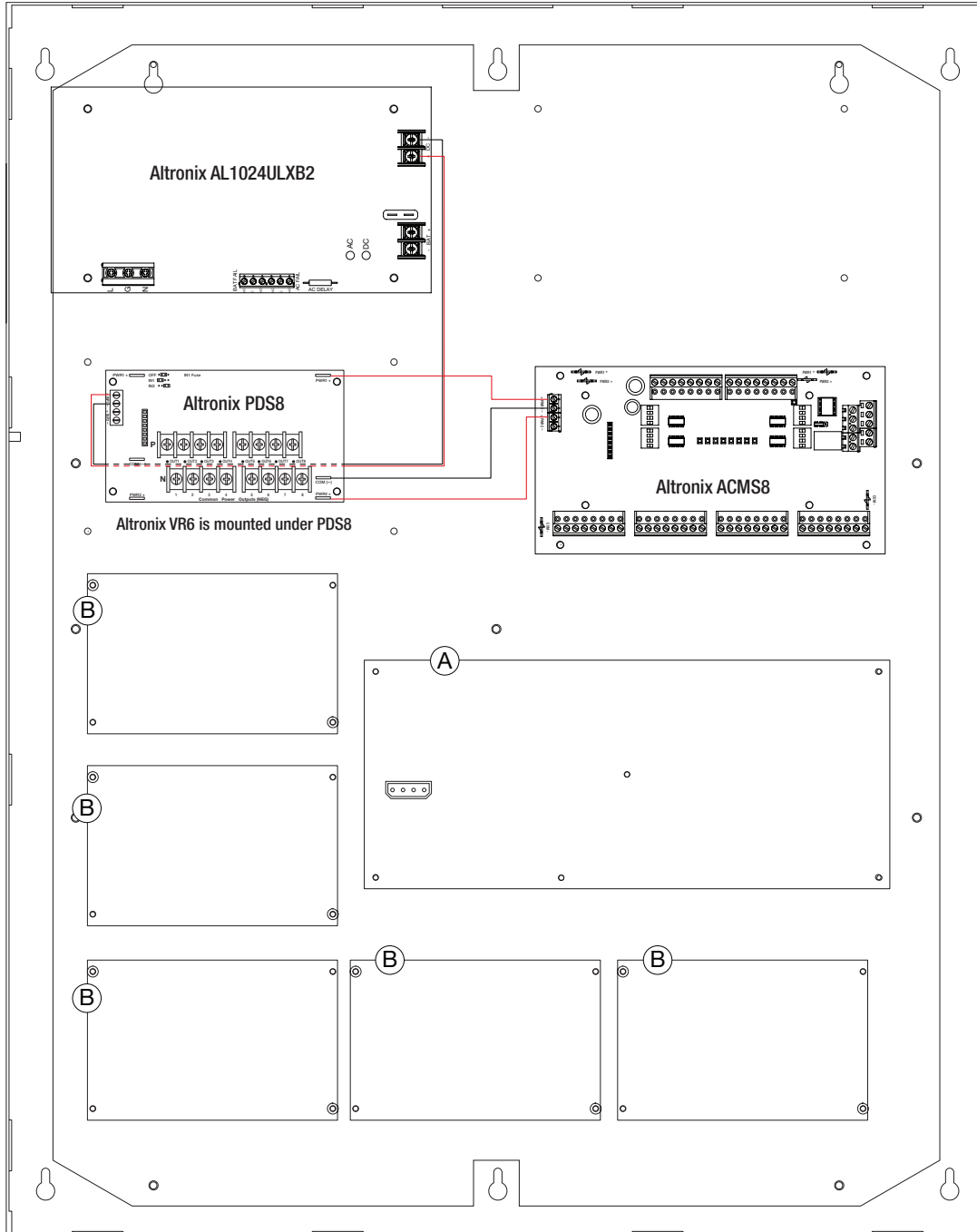   **Note:** Brivo board must be properly grounded.
    Please use provided metal spacers for the lower right mounting holes *(Fig. 5, pg. 6)*.
3. Mount Brivo board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 5a, pg. 6)*.
4. Fasten backplane to Trove2 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Brivo Access Controller	Pem Mounting
ACS6000-MBE	Ⓐ
ACS6100-DB, ACS6100-IO	Ⓑ

Fig. 5 - **T2BV778S Configurations**
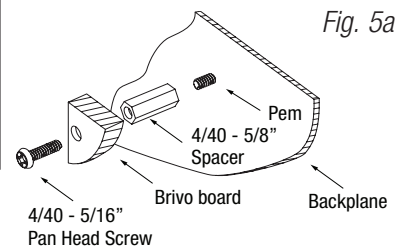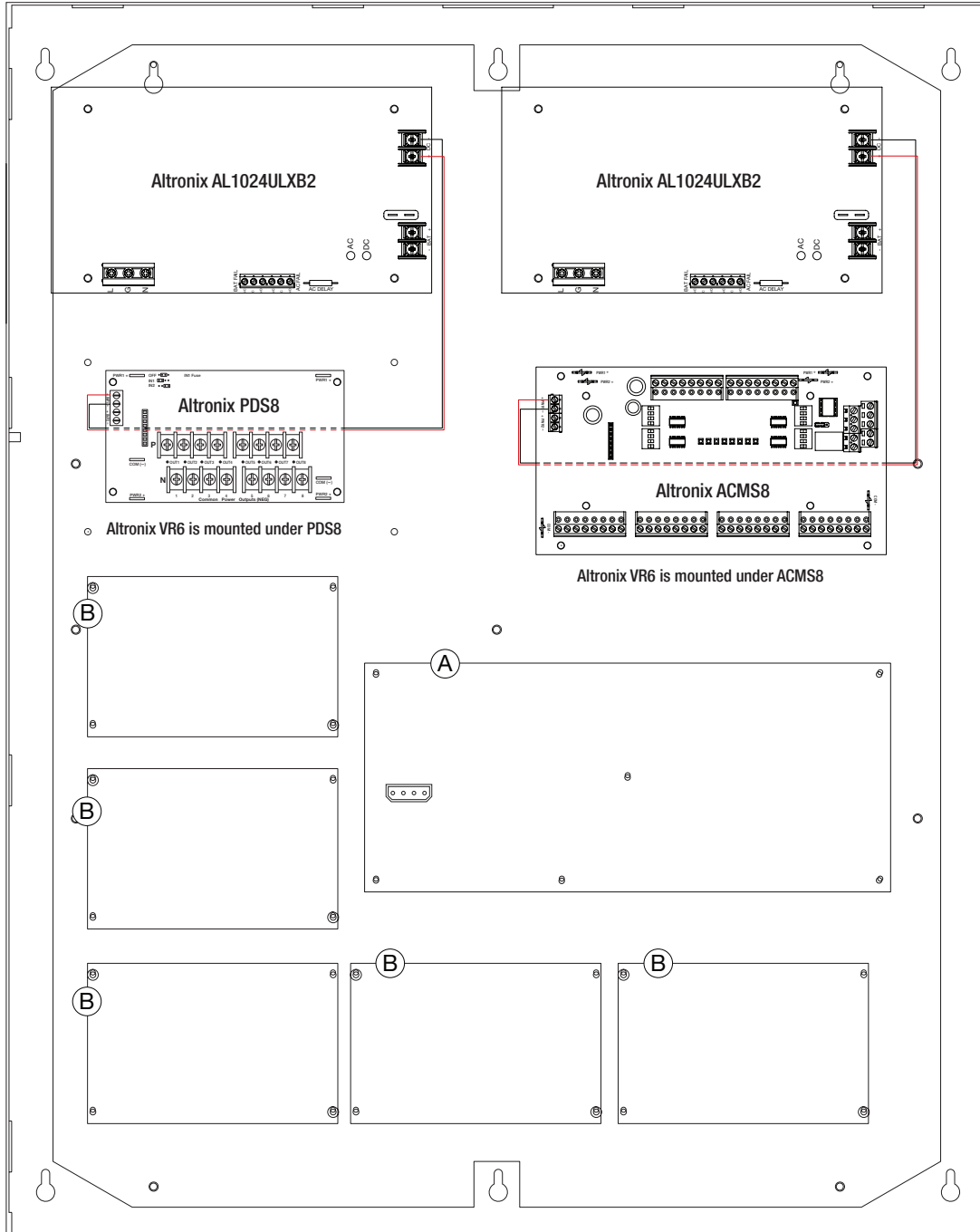

Fig. 5a

Trove Brivo Fused ULXB Kits Installation Guide

T3BV7716S: Configuration of Brivo Controls Boards:

1. Align the Brivo board on the backplane to match the boards' mounting holes with corresponding pems.
2. Fasten 4/40 - 5/8" Metal Spacers (provided) to pems that match the hole pattern for Brivo board *(Fig. 6, 6a, pg. 7)*.
   Note: Brivo board must be properly grounded.
   Please use provided metal spacers for the lower right mounting holes *(Fig. 6, pg. 7)*.
3. Mount Brivo board to spacers utilizing provided 4/40 - 5/16" Pan Head Screws *(Fig. 6a, pg. 7)*.
4. Fasten backplane to Trove3 enclosure utilizing lock nuts (provided).

Access Controller Position Chart for the Following Models:

Brivo Access Controller	Pem Mounting
ACS6000-MBE	Ⓐ
ACS6100-DB, ACS6100-IO	Ⓑ

Fig. 6 - **T3BV7716S Configurations**

Fig. 6a
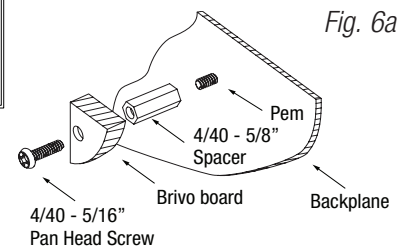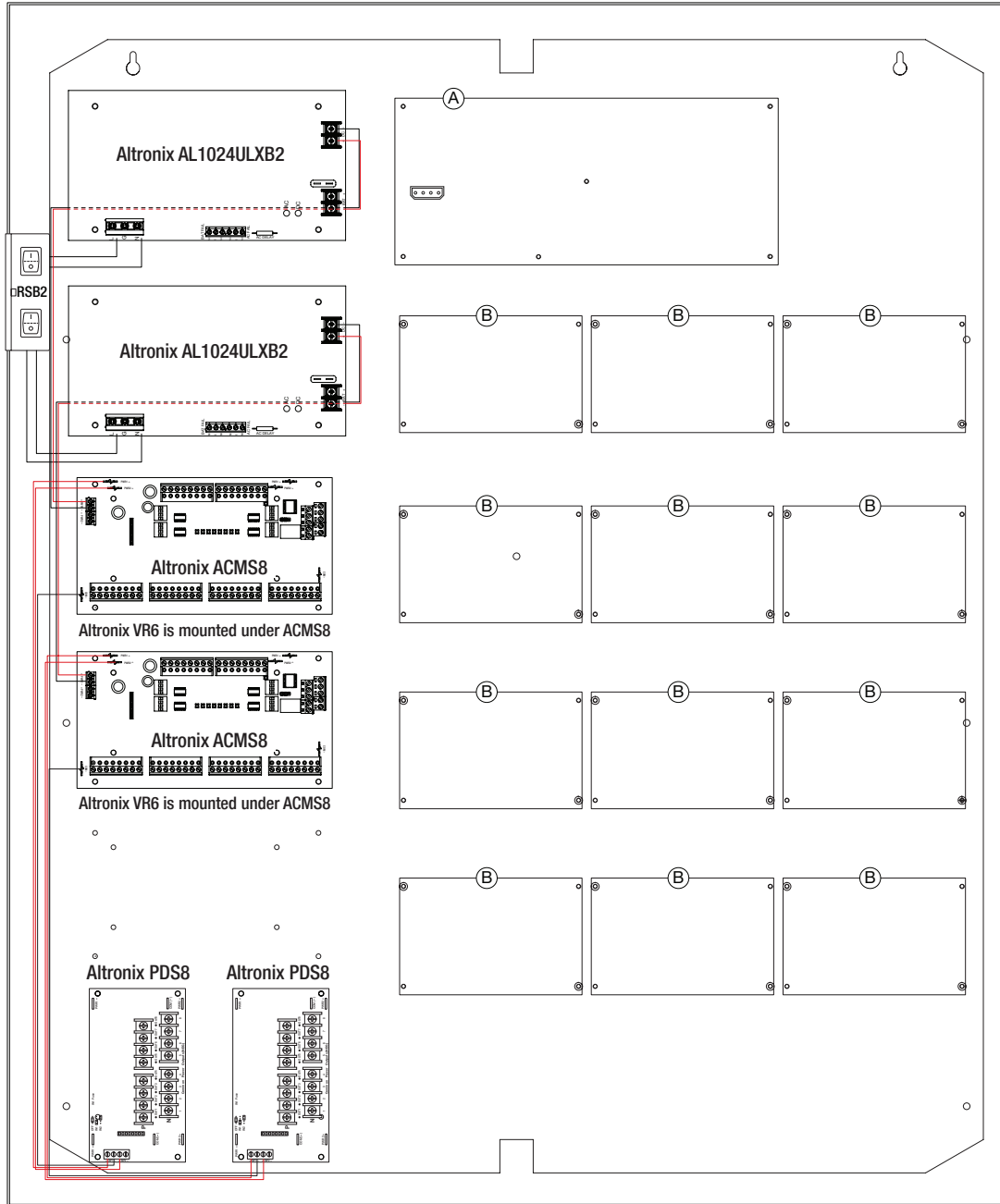
T1BVT4 and T1BV34S (Trove1) Enclosure Dimensions (H x W x D approximate):

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

14.5" (321.3mm)

7.25" (184.2mm)

1.45" (36.8mm)

$\varnothing$1.95" (49.5mm)

4.5" (114.3mm)

1.25" (31.8mm)

1.5" (38.1mm)

0.57" (14.5mm)

8.5" (215.9mm)

6.5" (165.1mm)

13.0" (330.2mm)

0.6" (15.2mm)

18.0" (457.2mm)

0.6" (15.2mm)

1.1" (27.9mm)

1.25" (31.8mm)

1.5" (38.1mm)

8.5" (215.9mm)

6.5" (165.1mm)

4.5" (114.3mm)

4.5" (114.3mm)

2.75" (69.9mm)

$\varnothing$1.115" (28.3mm)

1.36" (34.5mm)

1.25" (31.8mm)

T2BV78S and T2BV778S (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)

21.50" (546.1mm)

2.00" (50.8mm) 5.25" (133.35mm) 3.5"(88.9mm) 3.5"(88.9mm) 5.25" (133.35mm) 2.00" (50.8mm)

0.685" (17.4mm)

1.25" (31.8mm)

0.5625" (14.3mm) 1.77" (45mm)

Knockouts 1.125" (28.3mm)

6.25" (158.8mm)

Ø 2.415" (61.3mm) 0.885" (22.5mm)

1.5" (38.1mm)

6.25" (158.8mm)

19.80" (502.9mm)

1.25" (31.8mm)

2.00" (50.8mm)

6.75" (171.5mm)

27" (685.8mm)

8.25" (209.5mm)

8.00" (203.2mm)

0.85" (21.6mm)

2.00" (50.8mm)

1.00" (25.4mm)

1.25" (31.8mm)

1.25" (31.8mm)

2.00" (50.8mm) 5.25" (133.4mm) 7.00" (177.8mm) 5.25" (133.4mm) 2.00" (50.8mm)

T3BV7716S (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)

2.00" (50.8mm)   7.12" (222.3mm)   9.5" (241.3mm)   9.5" (241.3mm)

1.25" (31.8mm)
1.78" (45.2mm)
1.55" (39.4mm)

1" Conduit
3/4" Conduit
1.25" Conduit
1.5" Conduit
2" Conduit
1.5" Conduit
1.25" Conduit

1.07" (27.2mm)
30.12" (768.1mm)
14.01" (355.9mm)   14.01" (355.9mm)

2.00" (50.8mm)
1.25" (31.8mm)
1" Conduit
3/4" Conduit

10.75" (273.1mm)
10.62" (269.8mm)
10.75" (273.1mm)

1.10" (27.9mm)
33.63" (854.2mm)

G
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2" (50.8mm)
1" Conduit
3/4" Conduit

10.75" (273.1mm)
10.62" (269.8mm)
10.75" (273.1mm)
36.12" (917.5mm)

1.25" (31.8mm)
7.06" (179.3mm)

3/4" Conduit
1" Conduit

1.25" (31.8mm)

2" (50.8mm)   8.75" (222.3mm)   8.62" (219mm)   8.75" (222.3mm)

Notes:

Notes:

llTrove Brivo Fused (ULXB) Kits   D03W