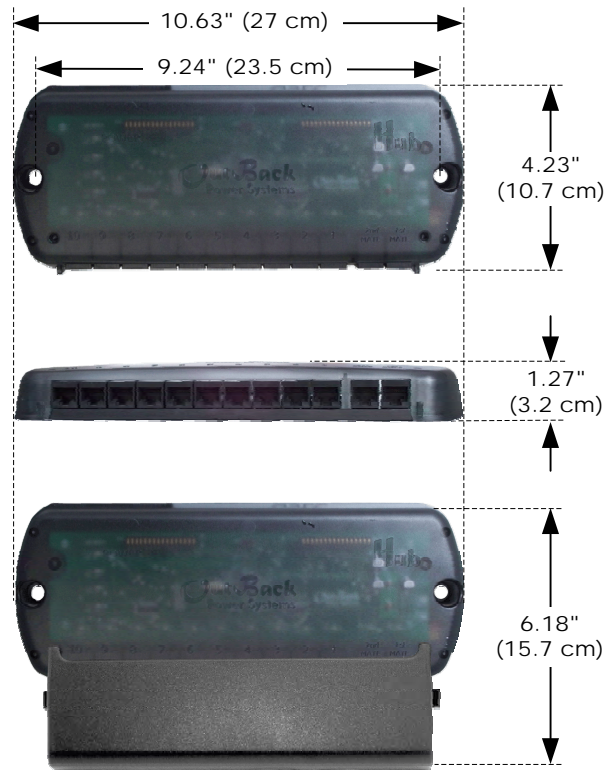


Parts List	
HUB10.3	HUB Wiring Cover
#10 x 1/2" Screws x 2	Cable, CAT5e, 3' (1 m) x 2
Shutter Bushing x 2	Cable, CAT5e, 6' (2 m) x 3
Snap Bushing x 2	Cable, CAT5e, 10' (3 m) x 4

Dimensions



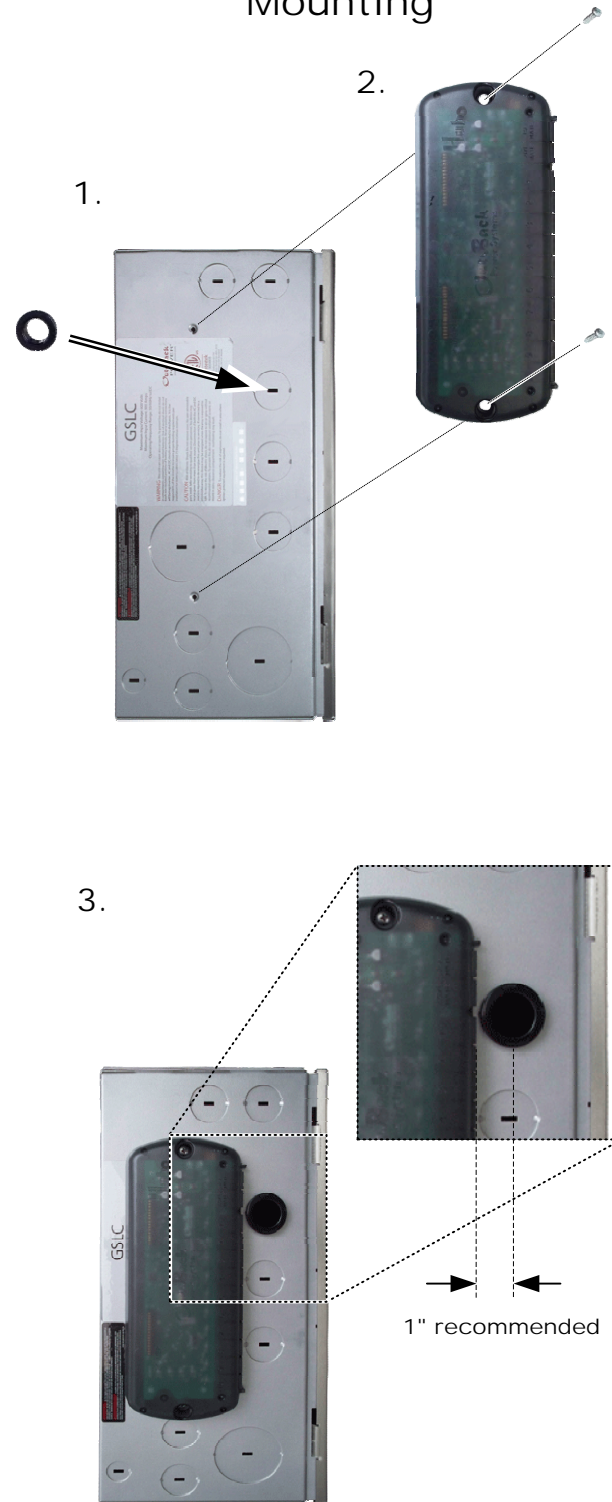
Contact Technical Support:
 Telephone: +1.360.618.4363
 Email: Support@outbackpower.com
 Website: www.outbackpower.com



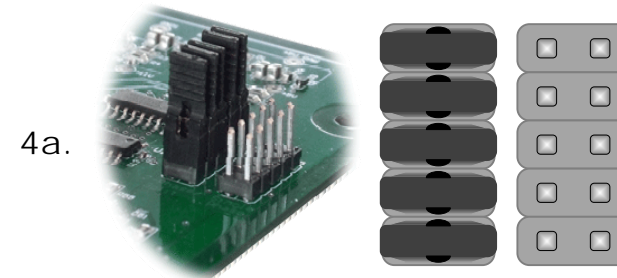
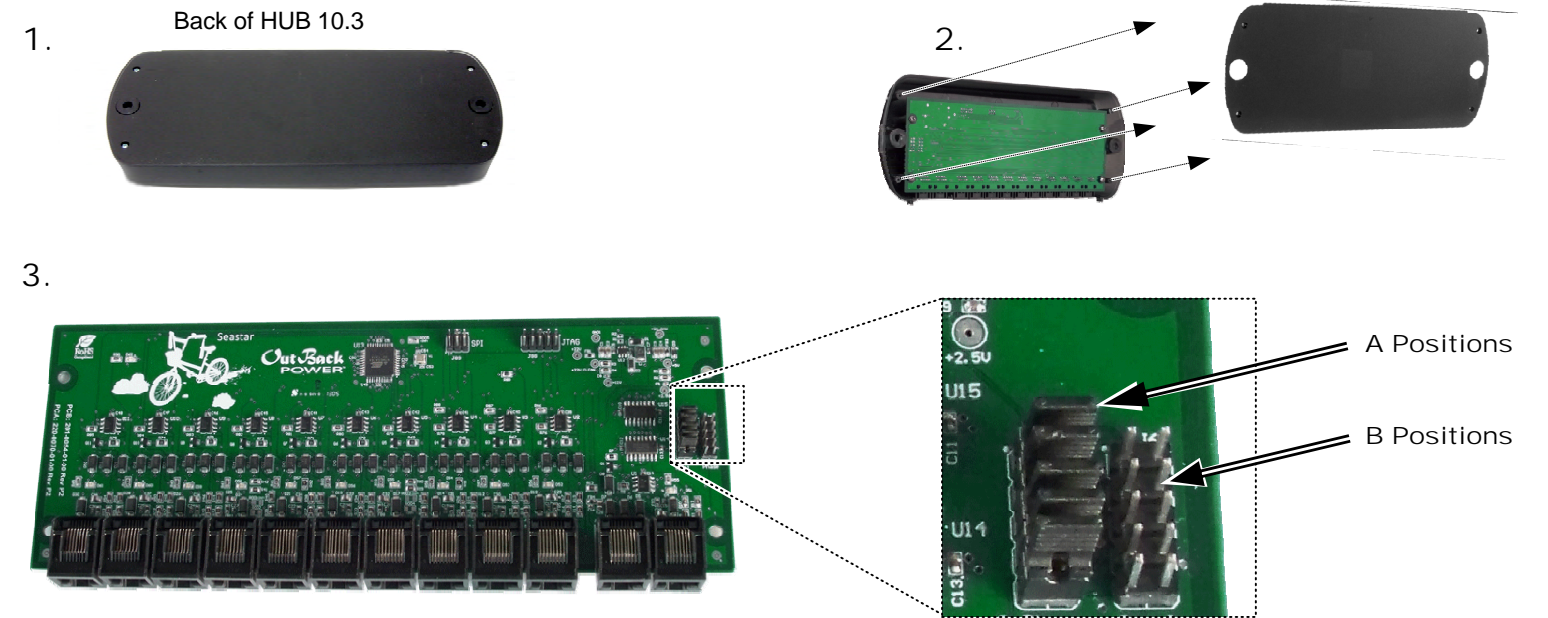
IMPORTANT:
 Not intended for use with
 life support equipment.

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Mounting



Changing Jumpers



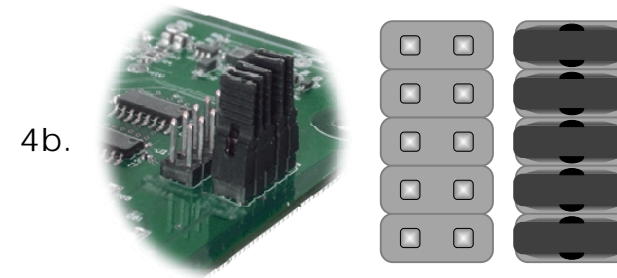
Used for Subphase Master stacking in FX and GS inverters (both three-phase and series configurations).

For these applications, place all jumpers in the positions noted in the photograph and the diagram.

NOTE: This option requires MATE3 firmware revision 002.013.000 or higher.

Jumper position identified by MATE3 on power-up:

Searching for Devices
 Found
 HUB10.3



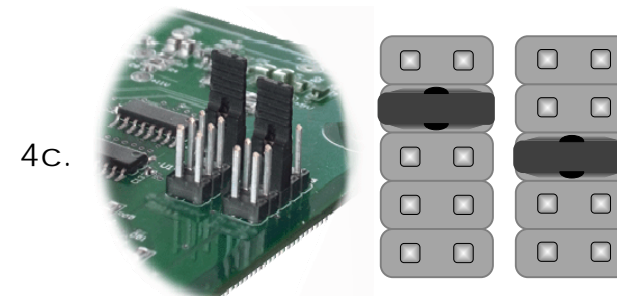
This is the factory-installed initial position.

Used for classic series, OutBack series, and parallel stacking. Also used for three-phase OutBack stacking with models GVFX(E) and GTFX(E).

For these applications, place all jumpers in the positions noted in the photograph and the diagram.

Jumper position identified by MATE3 on power-up:

Searching for Devices
 Found
 HUB10.3



Used for three-phase OutBack stacking with FX, VFX, FX(E) or VFX(E) inverters.

For these applications, place *only two jumpers* in the positions noted in the photograph and the diagram.

Remove all remaining jumpers. No others are used for this configuration.

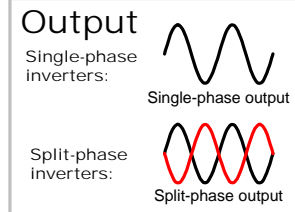
Jumper position identified by MATE3 on power-up:

Searching for Devices
 Found
 HUB10.3 Sub-phase Master

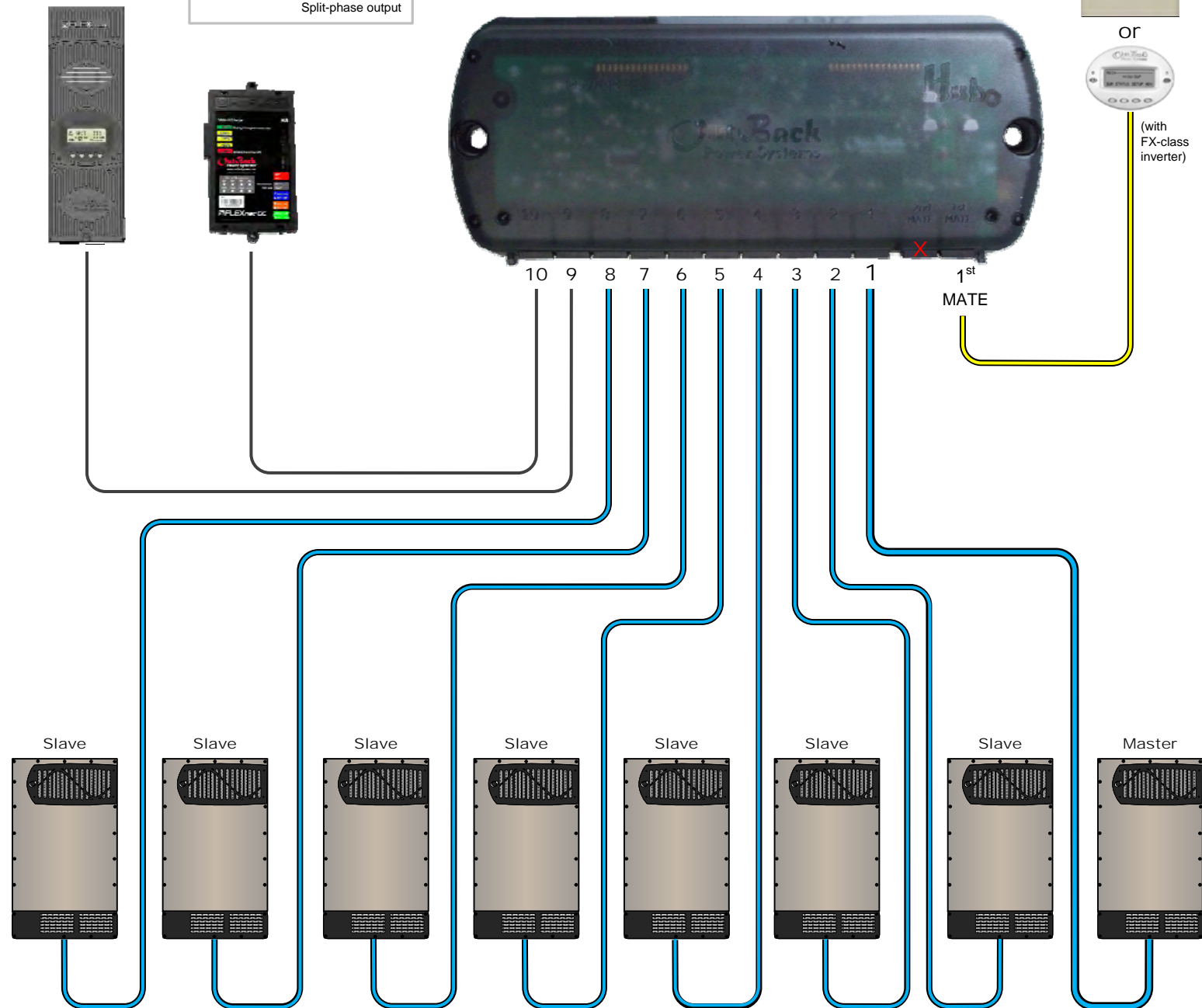
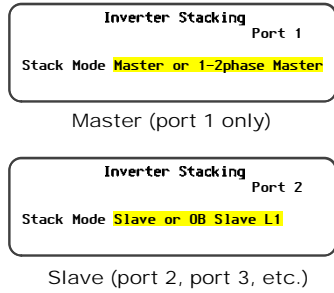
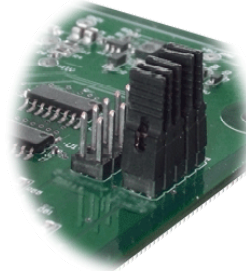
Models
FX / VFX (all series, including E, J, M, N, and W)
GS8048
GS8048A
GS4048A
GS7048E
GS3548E
GFX
GFX (E Series)
GTFX (E Series)
GVFX (ESeries)

Parallel Stack

- Up to 10 inverters or other devices
- All inverters use common AC output bus
- Master inverter always active; regulates power output based on load
- Slave inverters remain in Power Save mode; Master activates Slave inverters based on load



Jumper position (see step 4b on front page)

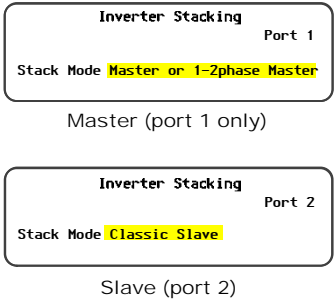
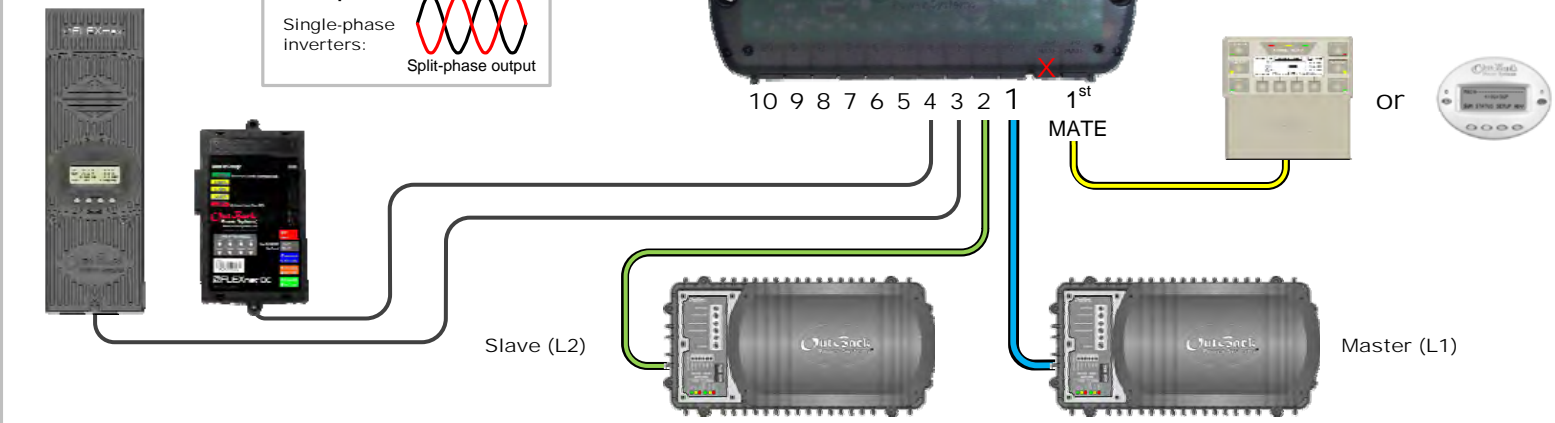
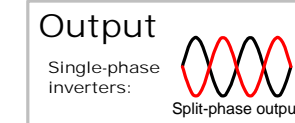


Models
FX / VFX (includes J, M, N Series)
GTFX
GVFX
GTFX (LA Series)
GVFX (LA Series)
GFX

Series Stack (Classic)

- 2 inverters; up to 8 other devices
- Master and single Slave inverter use separate output AC buses (L1 and L2)
- Both inverters always active (no Power Save mode); outputs are loaded independently but output regulation is controlled by load on Master

Jumper position (see step 4b on front page)



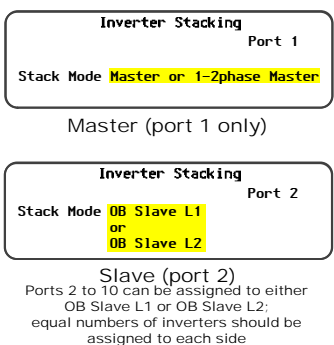
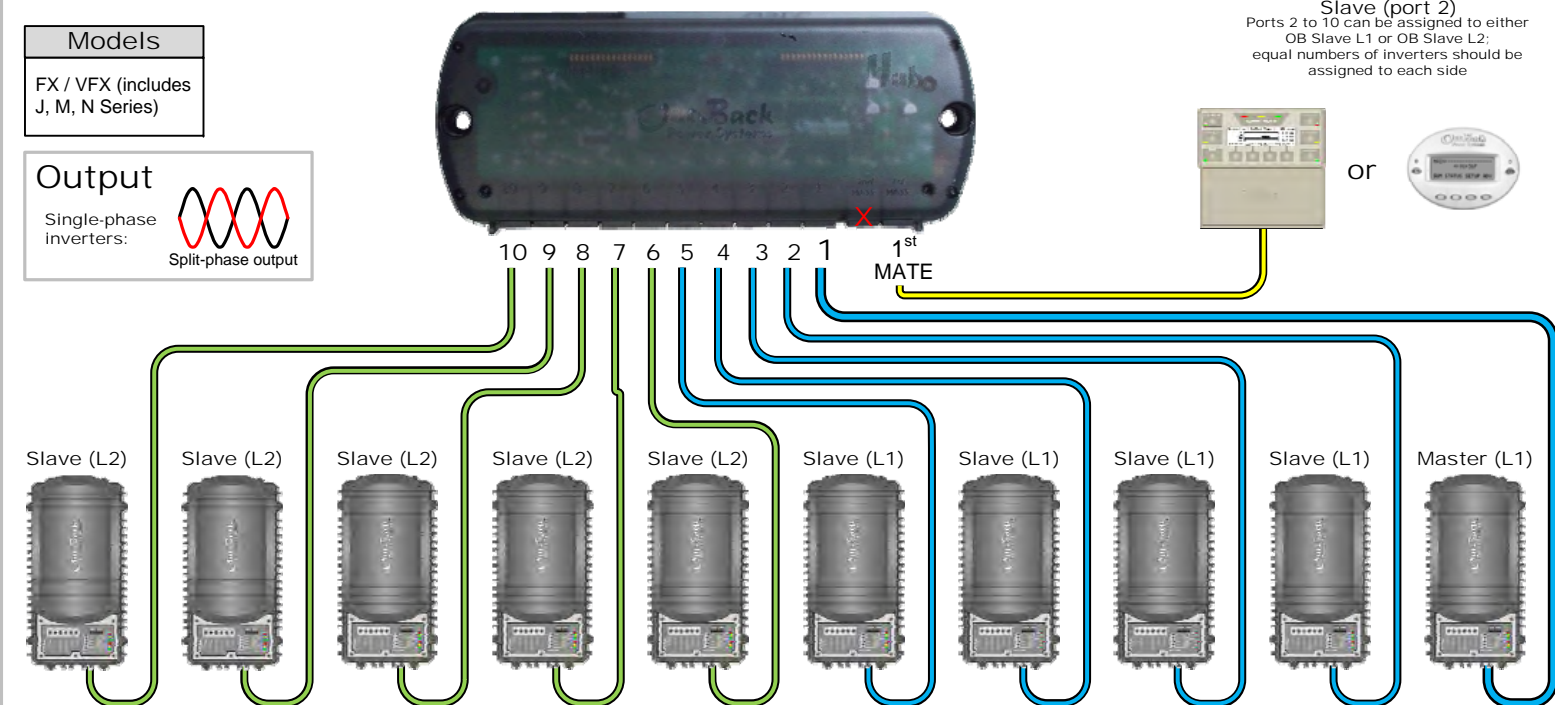
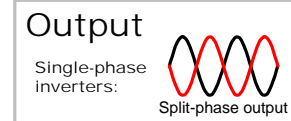
Series Stack (OutBack)

- Up to 10 inverters or other devices; requires balancing transformer
- Master inverter and half of the Slave inverters use common output AC bus (L1)
- The remaining Slave inverters use a separate common AC bus (L2)
- Master inverter is always active; regulates output based on load; can power both L1 and L2 buses using balancing transformer
- Slave inverters remain in Power Save mode; Master activates any Slave inverters for either L1 or L2 based on load

Jumper position (see step 4b on front page)



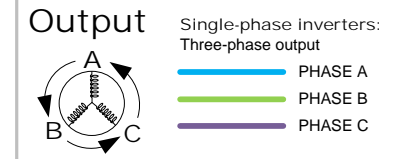
Models
FX / VFX (includes J, M, N Series)



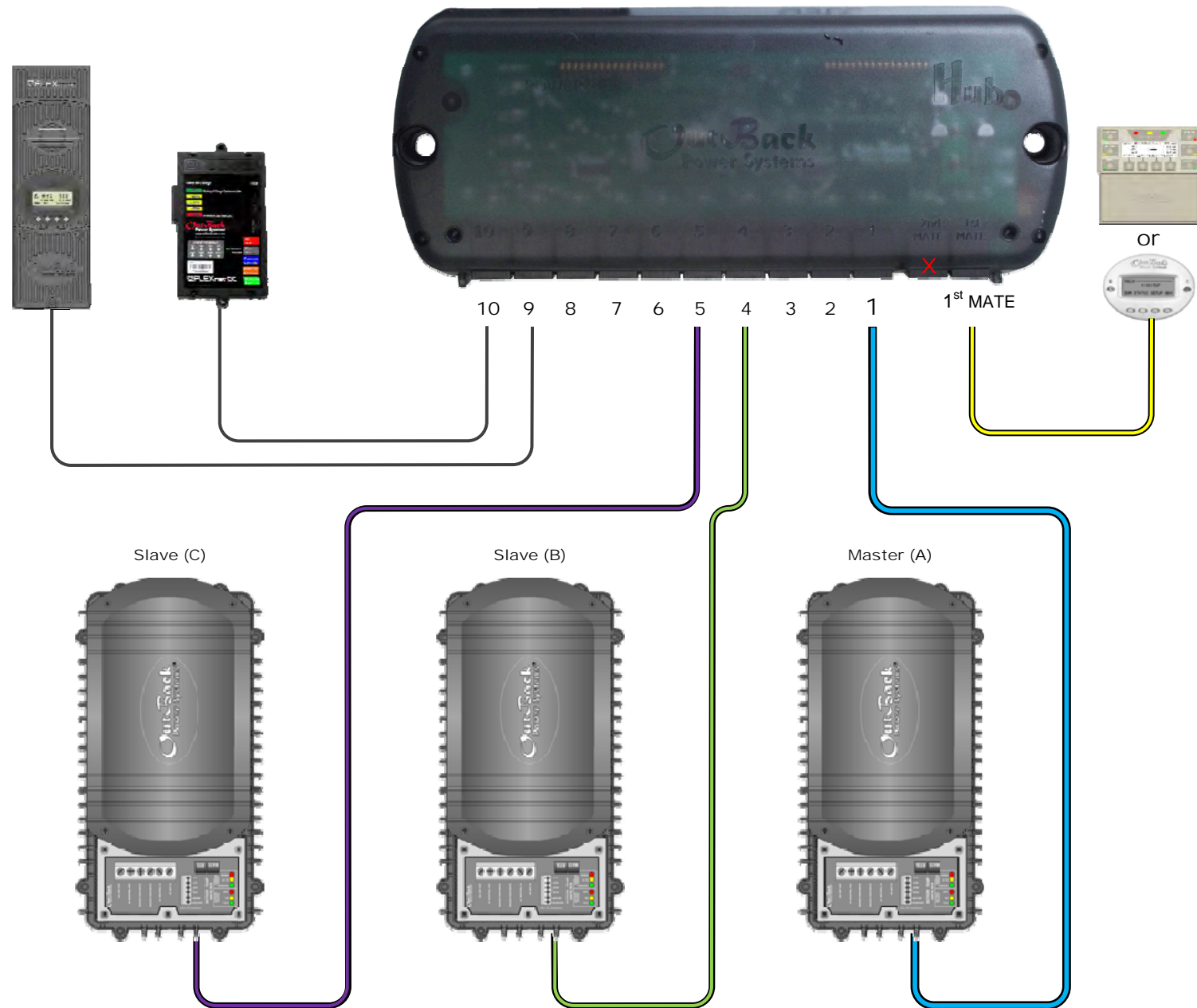
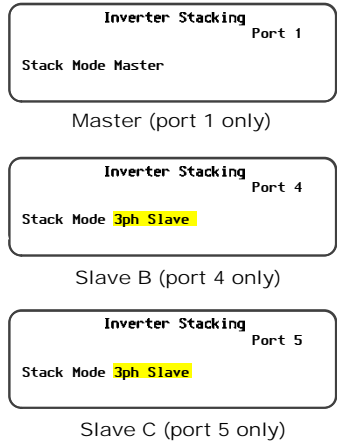
Models
FX / VFX (all series, including E, J, M, N, and W)

Three-Phase Stack

- 3 inverters; up to 7 other devices
- Master and two Slave inverters use separate output AC buses (A, B, and C)
- All inverters always active (no Power Save mode); outputs are loaded independently but output regulation is controlled by load on Master



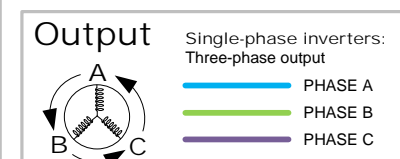
Jumper position
(see step 4c
on front page)



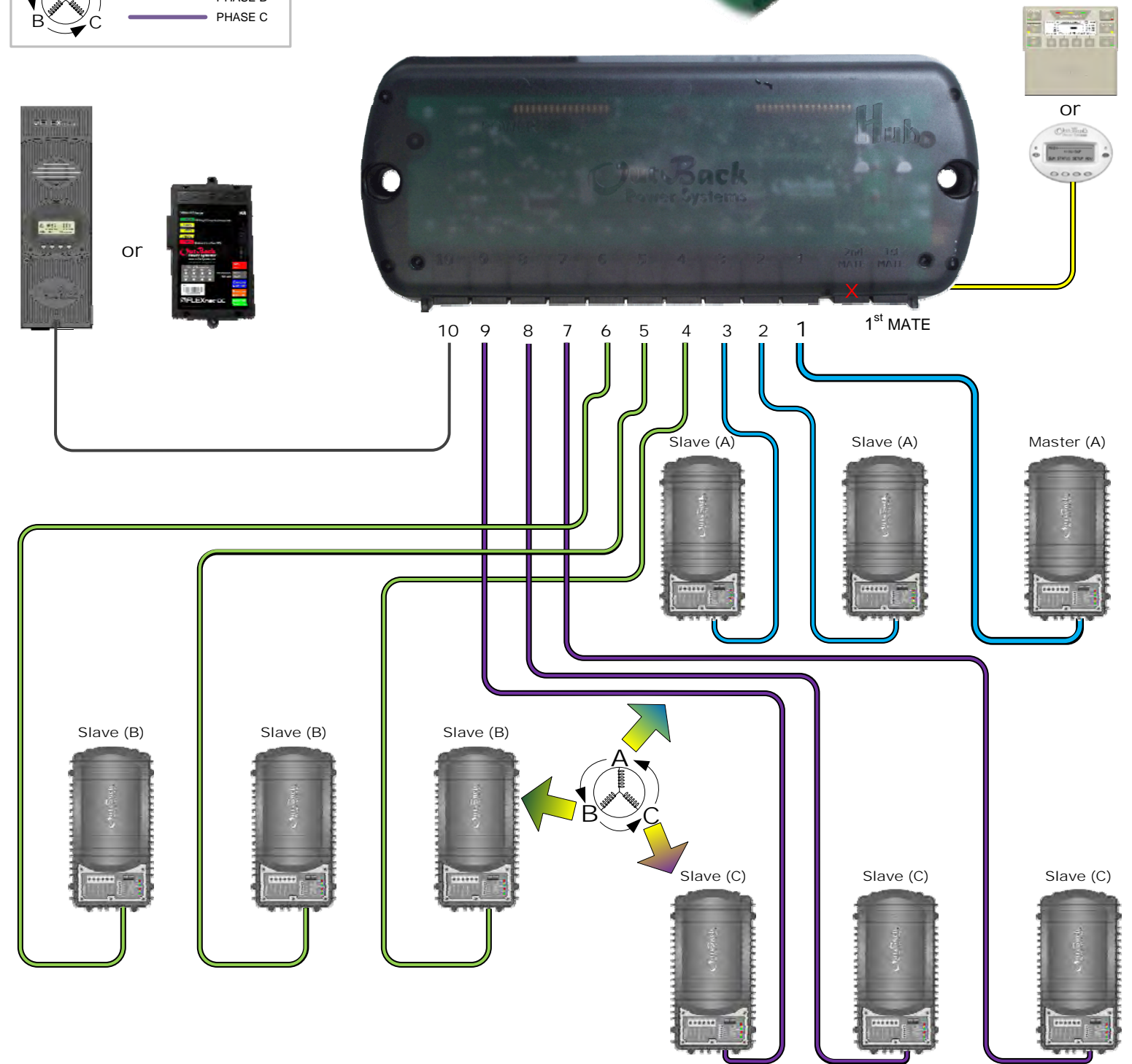
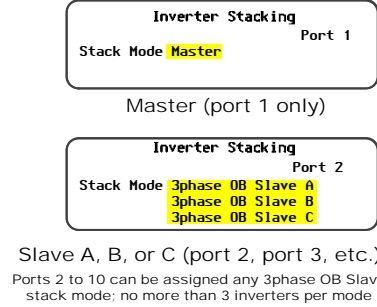
Models
GTFX (E Series)
GVFX (E Series)

Three-Phase Stack

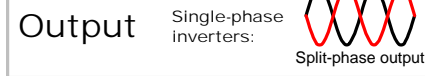
- Up to 9 inverters; 1 other device
- Master and two Slave inverters use separate output AC buses (A, B, and C)
- All inverters always active (no Power Save mode); outputs are loaded independently but output regulation is controlled by load on Master



Jumper position
(see step 4b
on front page)



Models
GFX



Series Stack (Subphase Master)

- Up to 8 inverters (ports 1 to 4, 7 to 10); 2 other devices (ports 5, 6); No balancing transformer required
- Master inverter and half of the Slave inverters use common output AC bus (L1); ports 2 to 4 are L1 slaves
- Subphase Master inverter and half of the Slave inverters use a separate common AC bus (2); ports 8 to 10 are L2 Slave inverters despite the screen selection (OB Slave L1)
- Port 7 is the L2 Subphase Master despite the screen selection (Classic Slave); this port is required regardless of the number of Slave inverters
- Master and Subphase Master are always active; each type of Master regulates output based on its own load
- Slave inverters remain in Power Save mode; Master activates L1 Slave inverters based on its load, while the Subphase Master independently activates L2 Slave inverters based on its own load

Inverter Stacking Port 1
Stack Mode **Master**

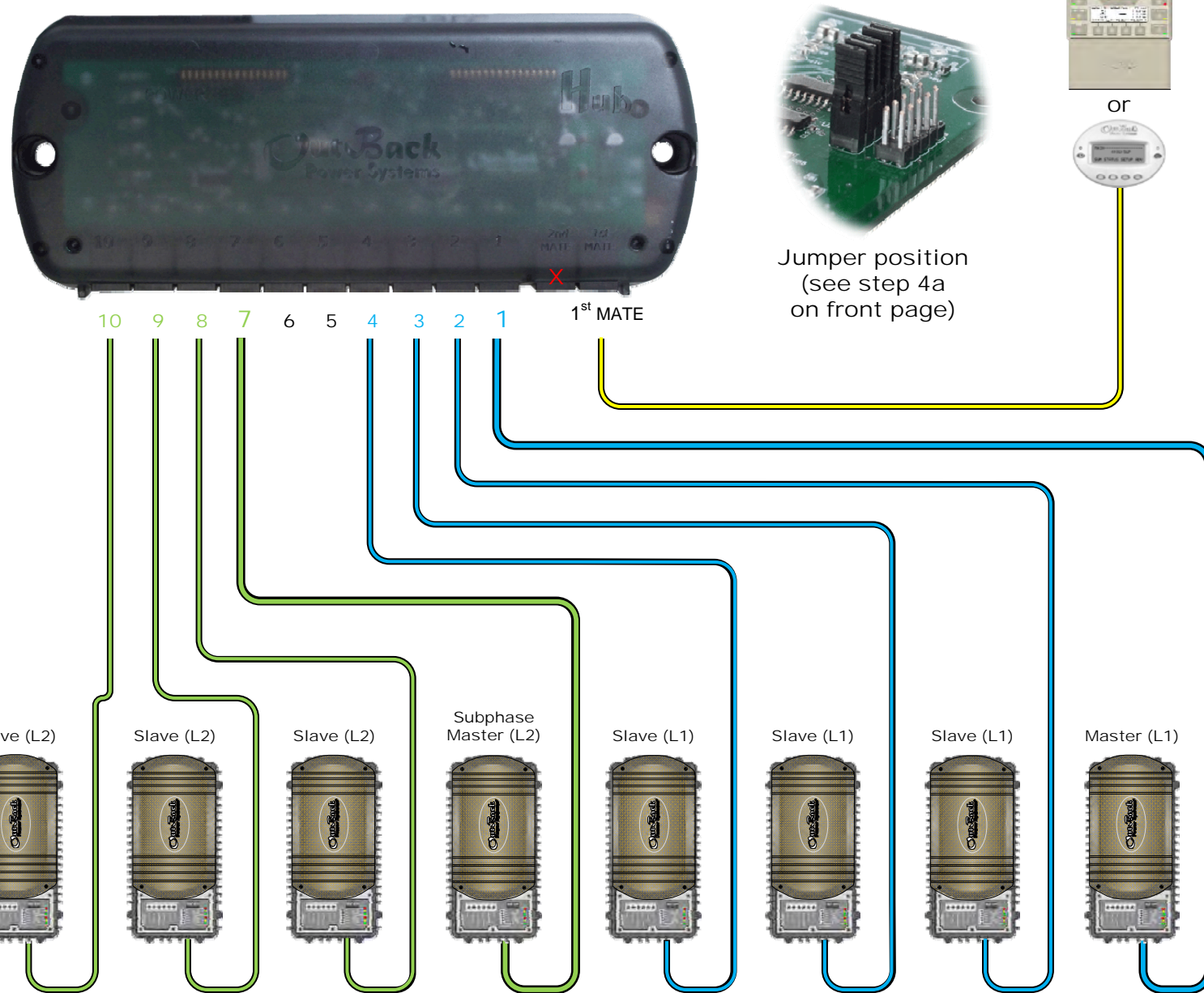
Master (port 1 only)

Inverter Stacking Port 2
Stack Mode **OB Slave L1**

Slave (port 2)
Also ports 3, 4, 8, 9, and 10

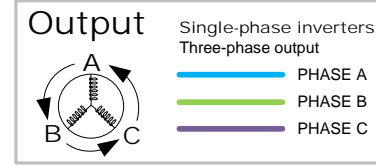
Inverter Stacking Port 7
Stack Mode **Classic Slave**

Subphase Master (port 7)

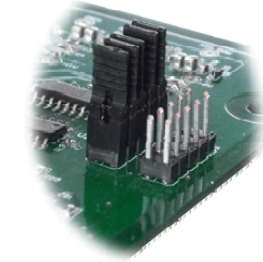


Jumper position
(see step 4a
on front page)

Models
GS7048E
GS3548E
GFX
GFX (E Series)



Jumper position
(see step 4a
on front page)



Inverter Stacking Port 1
Stack Mode **Master**

Master (port 1 only)

Inverter Stacking Port 2
Stack Mode **Slave**
or
OB Slave L1

Slave (port 2)
Also ports 3, 5, 6, 8, and 9

Inverter Stacking Port 4
Stack Mode **B Phase Master**
or
3p Classic B

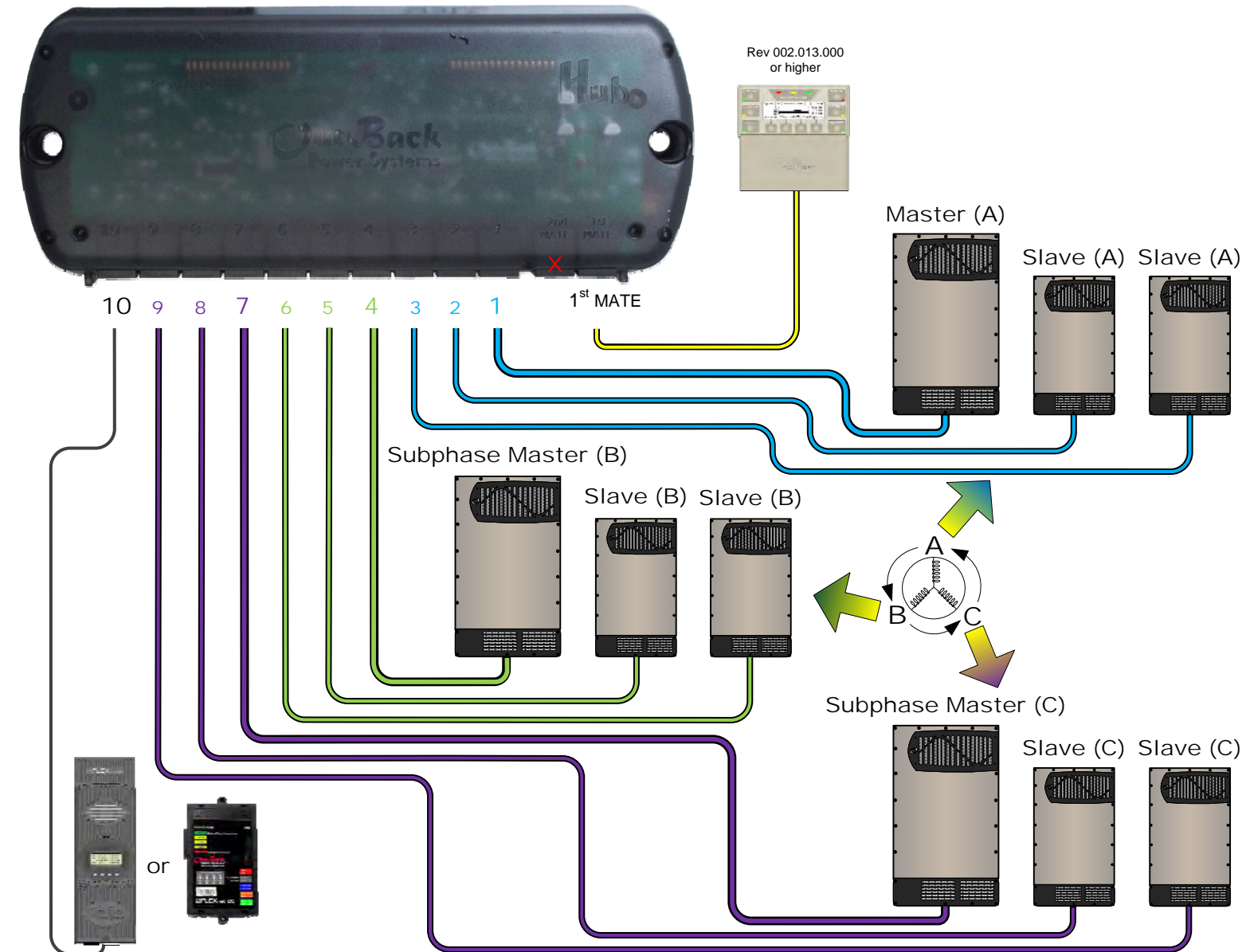
Subphase Master (port 4)

Inverter Stacking Port 7
Stack Mode **C Phase Master**
or
3p Classic C

Subphase Master (port 7)

Three-Phase Stack (Subphase Master)

- Up to 9 inverters (ports 1 to 9); 1 other device (port 10); MATE3 only
- Master inverter (required on port 1) and up to two Slave inverters (ports 3 & 3) use Phase A output AC bus
- Subphase Master inverter (required on port 4) and up to two Slaves (ports 5 & 6) use Phase B output AC bus
- Subphase Master inverter (required on port 4) and up to two Slaves (ports 8 & 9) use Phase C output AC bus
- Phase A, B, and C Slave inverters should be equal in number; Slave selection screen may display Slave but could display OB Slave L1 depending on model
- Master and Subphase Masters are always active; each type of Master regulates output based on its own load
- Slave inverters remain in Power Save mode; the Master activates Phase A Slave inverters based on its load, while the Subphase Masters independently activate Phase B or C Slave inverters based on their own loads



Rev 002.013.000
or higher