

# Galaxy PX/Easy UPS 3-Phase Modular Backfeed Kit (SP3OPT007)

## Safety Precautions

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

All safety instructions in this document must be read, understood and followed.

**Failure to follow these instructions will result in death or serious injury.**

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- Turn off all power supplying the UPS system before working on or inside the equipment.
- Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.
- The UPS contains an internal energy source. Hazardous voltage can be present even when disconnected from the mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- A disconnection device (e.g. disconnection circuit breaker or switch) must be installed to enable isolation of the system from upstream power sources in accordance with local regulations. The disconnection device must be easily accessible and visible.
- The UPS must be properly earthed/grounded and due to a high leakage current, the earthing/grounding conductor must be connected first.

**Failure to follow these instructions will result in death or serious injury.**

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

All wiring must comply with all applicable national and/or electrical codes. The maximum allowable power cable size is 185 mm<sup>2</sup>.

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## Applicable Model List

**NOTE:** The backfeed kit is only applicable for UPSs with one internal switch. The commercial references for the UPSs with one internal switch are listed as follows.

- Galaxy PX UPS 100 kW scalable to 250 kW 400 V, 1 switch, for external batteries (GPXUPS100K250QBH)
- Galaxy PX UPS 100 kW scalable to 250 kW 400 V, 1 switch, for external batteries, start-up 5x8 (GPXUPS100K250QBHS)
- Easy UPS 3-Phase Modular 50 kW scalable to 250 kW 400 V, 1 switch, for external batteries (EMUPS50K250QBH)
- Easy UPS 3-Phase Modular 50 kW scalable to 250 kW 400 V, 1 switch, for external batteries, start-up 5x8 (EMUPS50K250QBHS)

## Torque Specifications

| Bolt size | Torque  |
|-----------|---------|
| M6        | 5 Nm    |
| M8        | 17.5 Nm |
| M12       | 50 Nm   |

## Install the Backfeed Kit in the UPS with One Internal Switch

### **DANGER**

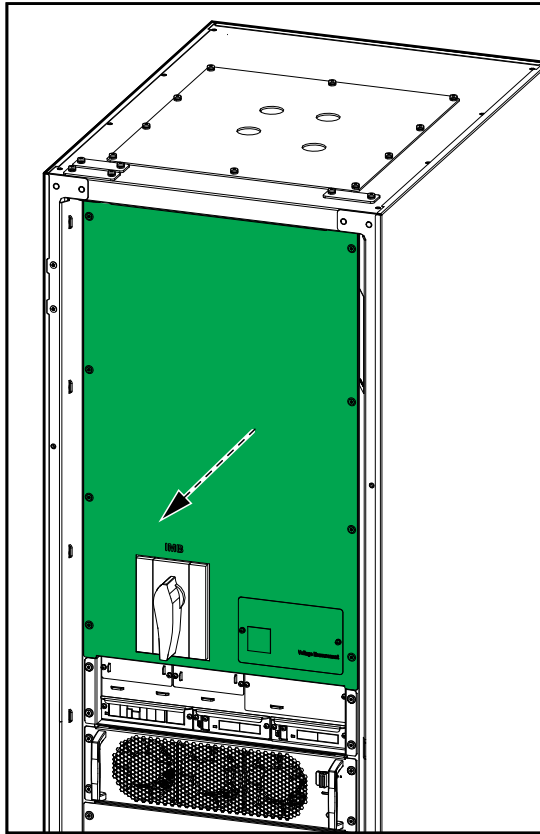
#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

Perform a total power off of the UPS before installing the backfeed kit. The UPS must be completely isolated and no power sources must be connected to the UPS.

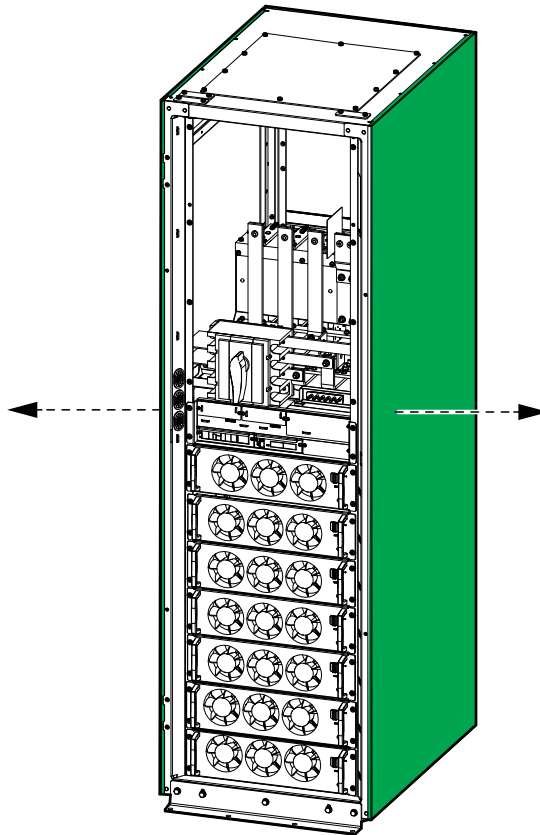
**Failure to follow these instructions will result in death or serious injury.**

1. Open the front door.

2. Remove the front cover from the UPS. Discard the front cover.

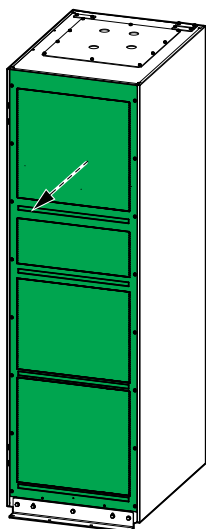


3. If possible, remove the side panels for better access.



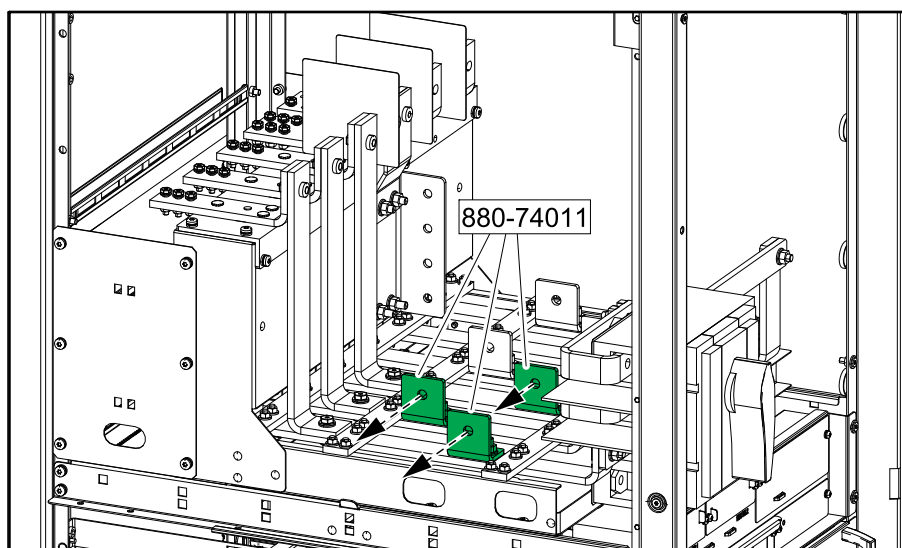
4. Remove the rear panel from the UPS.

#### Rear View



5. Remove the three input busbars (880-74011). Discard the input busbars. Save the six removed M8 nuts (803-8007).

#### Left Side View

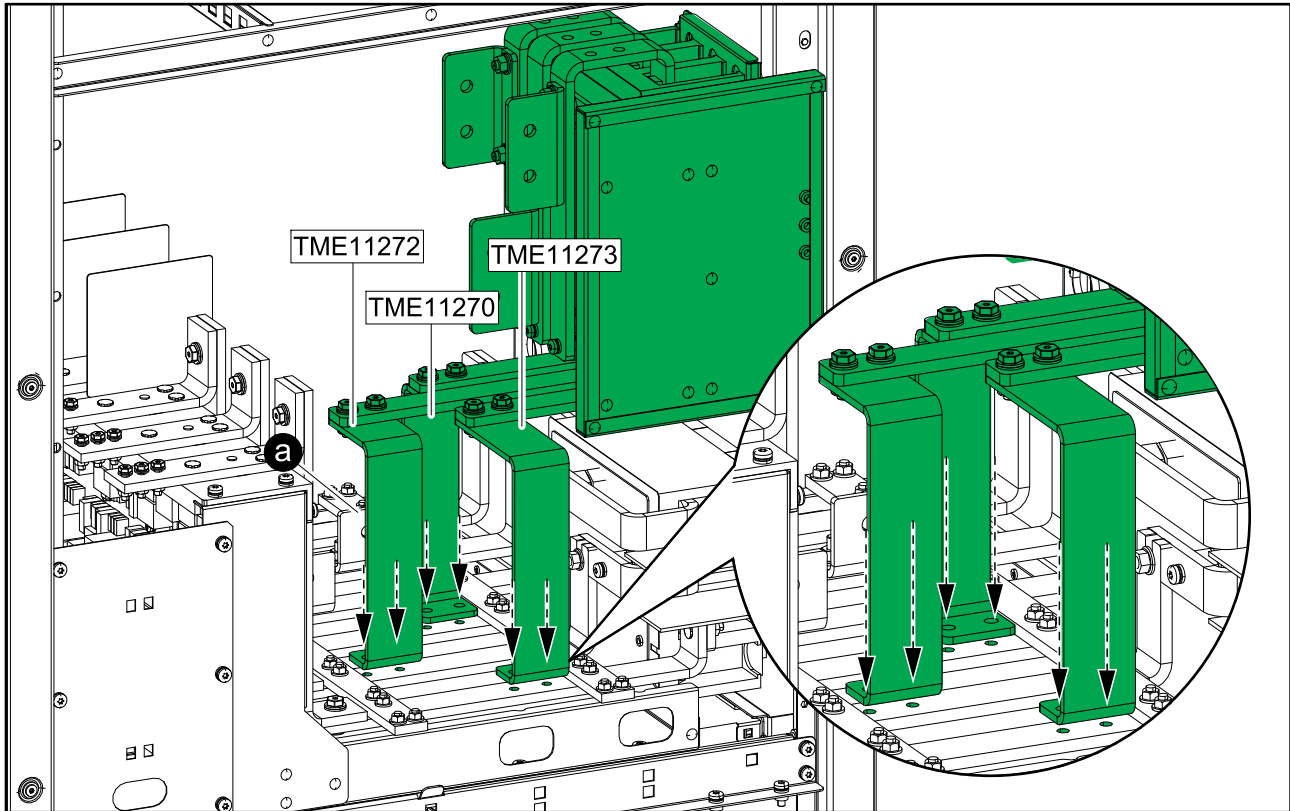


6. Install the backfeed breaker assembly in the UPS.

- a. Align the three backfeed busbars (TME11270, TME11272, TME11273) on the backfeed breaker assembly with the six riveted studs.

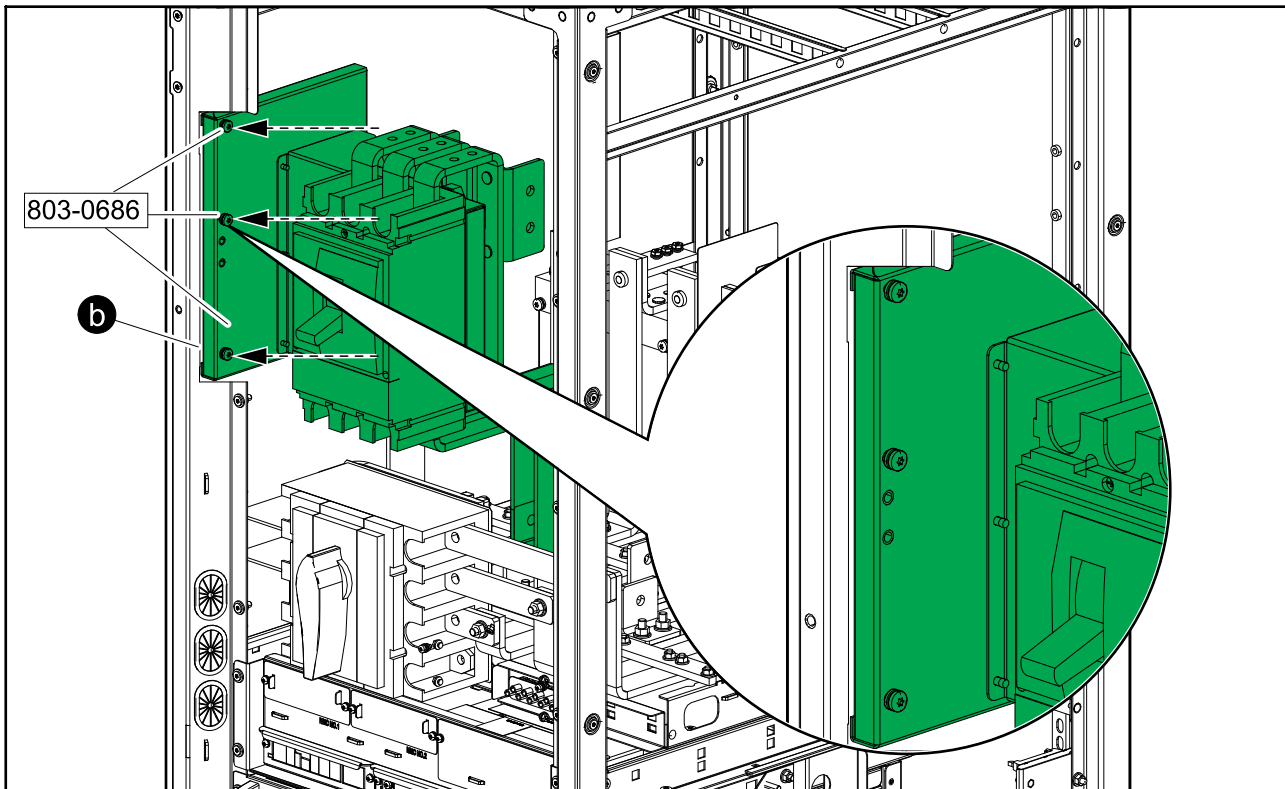
**NOTE:** Hold the backfeed breaker assembly in place until it has been fastened with screws.

**Rear View**



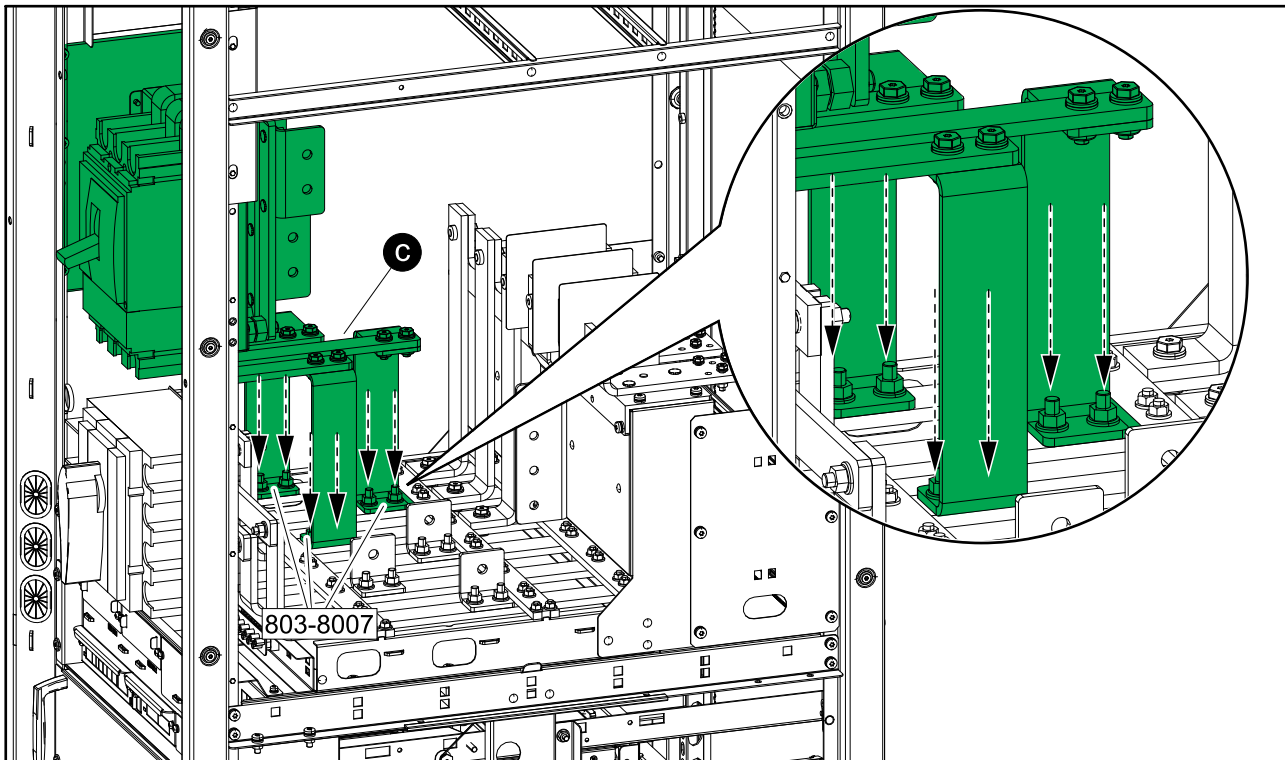
- b. Align the side plate of the backfeed breaker assembly on the post and fasten with the three provided M6 screws (803-0686).

### Front Right View



- c. Fasten the three backfeed busbars with the six M8 nuts (803-8007) removed in step 5.

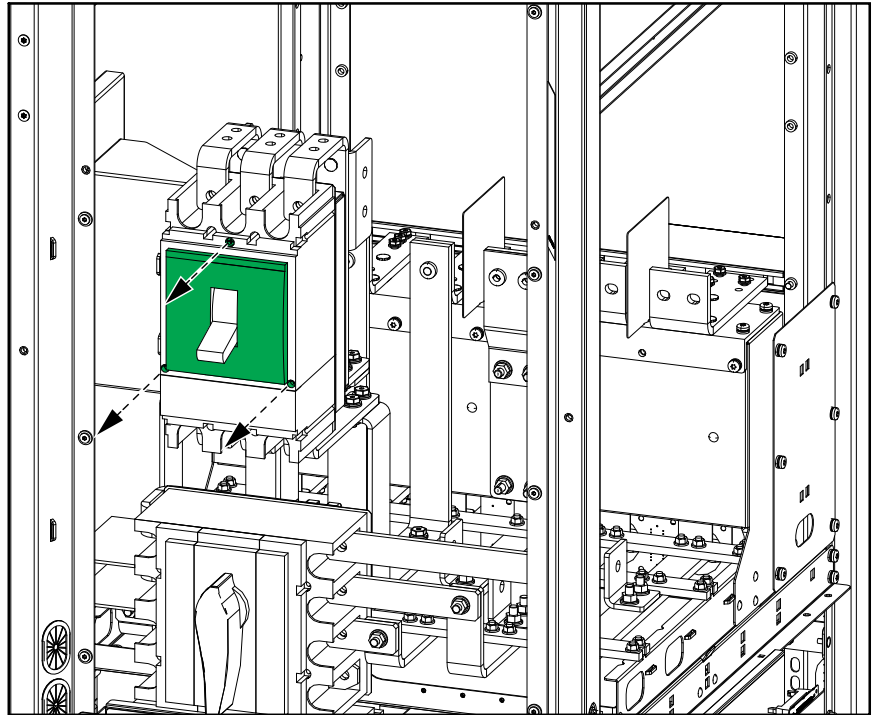
### Right Side View



7. Connect the signal cables (TME11681).

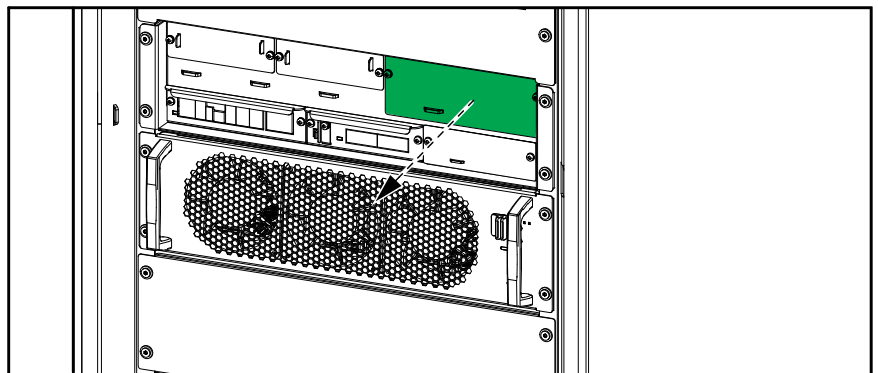
- a. Remove the indicated screws and remove the plastic cover from the backfeed breaker.

**Front View**

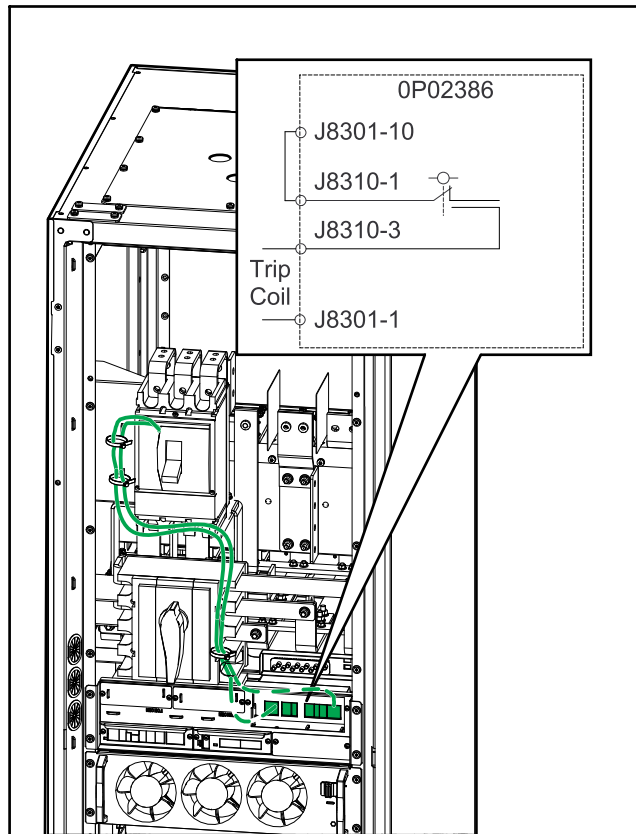


- b. Remove the cover from the signal connection terminals.

**Front View**

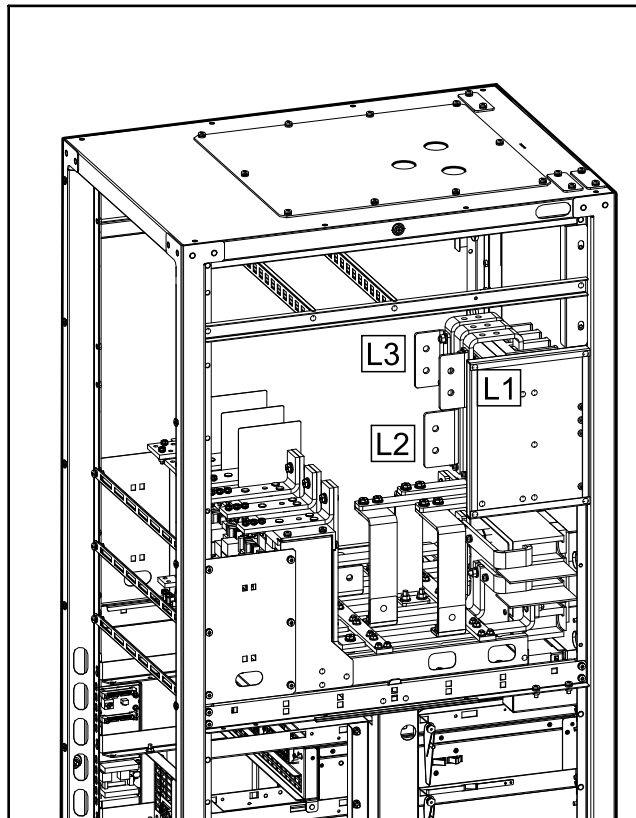


- c. Connect the signal cables from the trip coil inside the backfeed breaker to the signal connection terminals on 0P02386 as shown in the illustration. Connect J8301-10 to J8310-1. Connect the backfeed breaker trip coil cables to J8310-3 and J8301-1.



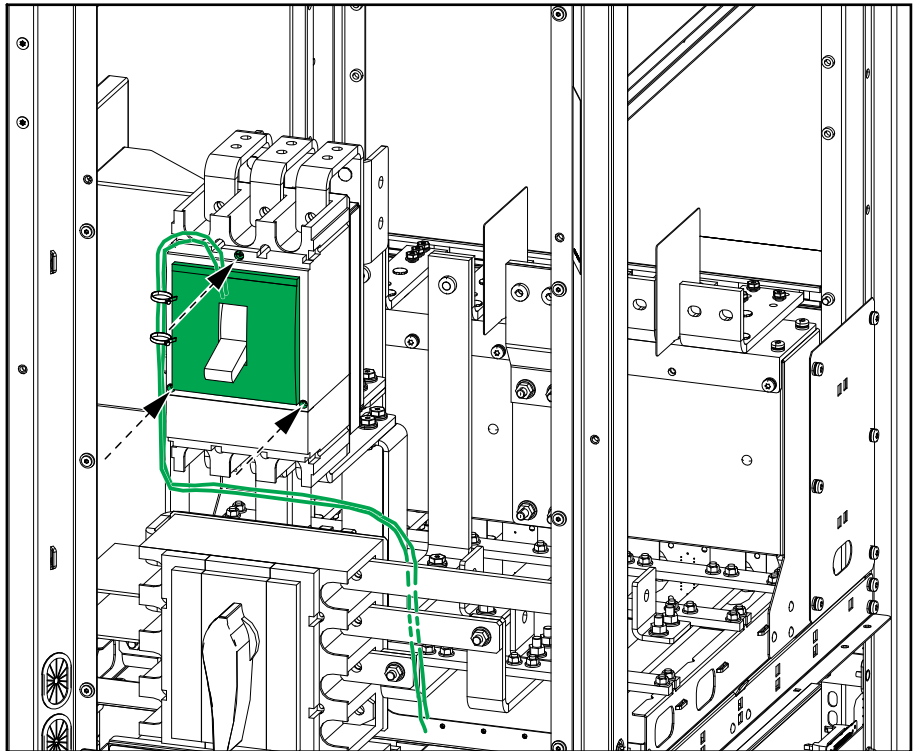
8. Note the terminal locations for the input power cables (single mains configuration) or bypass power cables (dual mains configuration).

#### Rear View

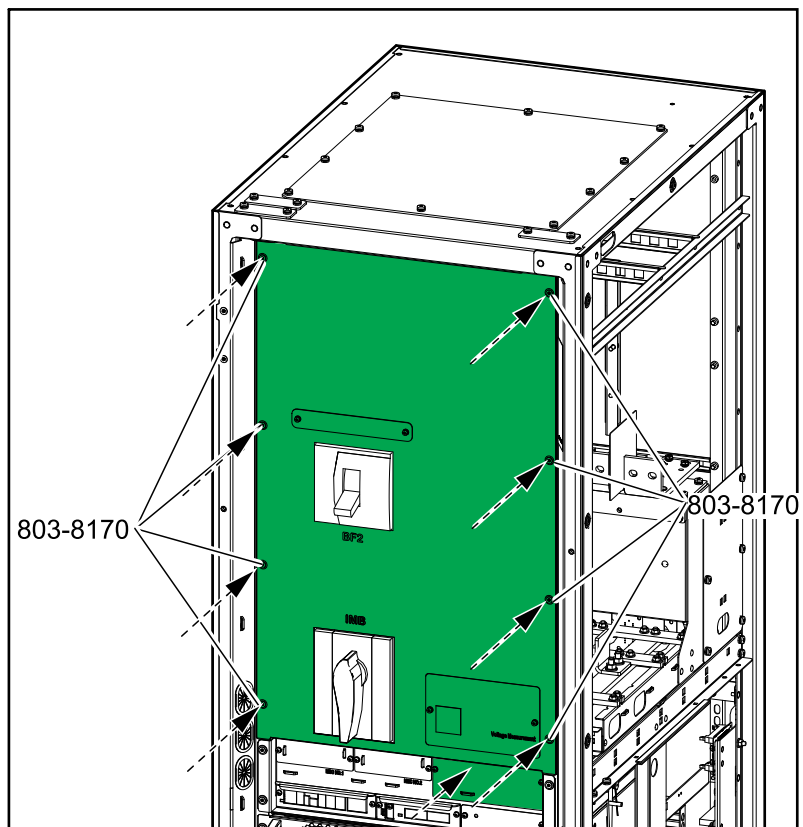




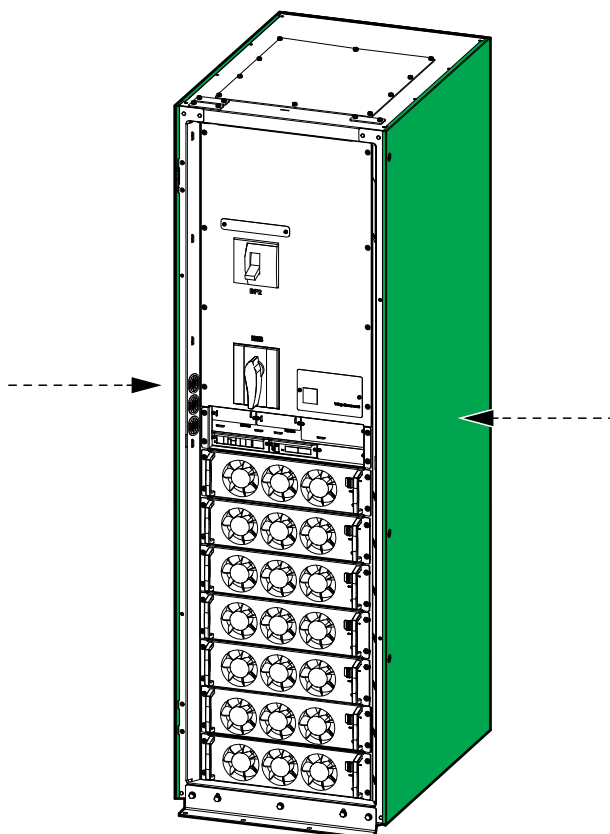
9. Reinstall the plastic cover on the backfeed breaker.



10. Install the new front plate (TME11303) from the backfeed kit on the UPS with the eight M6 screws (803-8170) removed in step 2. Reinstall the cover over the signal connection terminals.



11. If removed previously, reinstall the side panels on the UPS.



12. Reinstall the rear panel on the UPS.

**Rear View**

