

# KITS COMMON TO OUTDOOR COOLING UNITS

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## INVERTER REPLACEMENT KIT

### INSTALLATION INSTRUCTIONS FOR INVERTER REPLACEMENT KITS (16Y23, 16Y24) USED WITH XC25 / XP25 2- AND 3-TON UNITS

#### Shipping and Packing List

Package 1 of 1 contains:

1 – Replacement inverter

1 – Replacement reactor

Check package for shipping damage. Contact the last carrier immediately if any shipping damage is found.

#### **⚠ WARNING**

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier.

#### **⚠ CAUTION**

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

#### **⚠ WARNING**



Electric Shock Hazard! – Disconnect all power supplies before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock.

#### Procedure

- 1 - Disconnect all power to unit.
- 2 - Remove screws securing control panel access panel.
- 3 - Remove sheet metal barrier plate, using protective gloves to avoid injury.
- 4 - Disconnect wiring connected to existing inverter board:
  - Red and blue plugs from reactor
  - 3-wire compressor plug
  - Communication wire to MUC control board
  - Two ground wires

- Blue and brown wires with fork connection at contactor. (**NOTE** – Loosen screws on contactor until fork connectors can be disconnected. Do not remove screws completely.) Refer to figure 1.

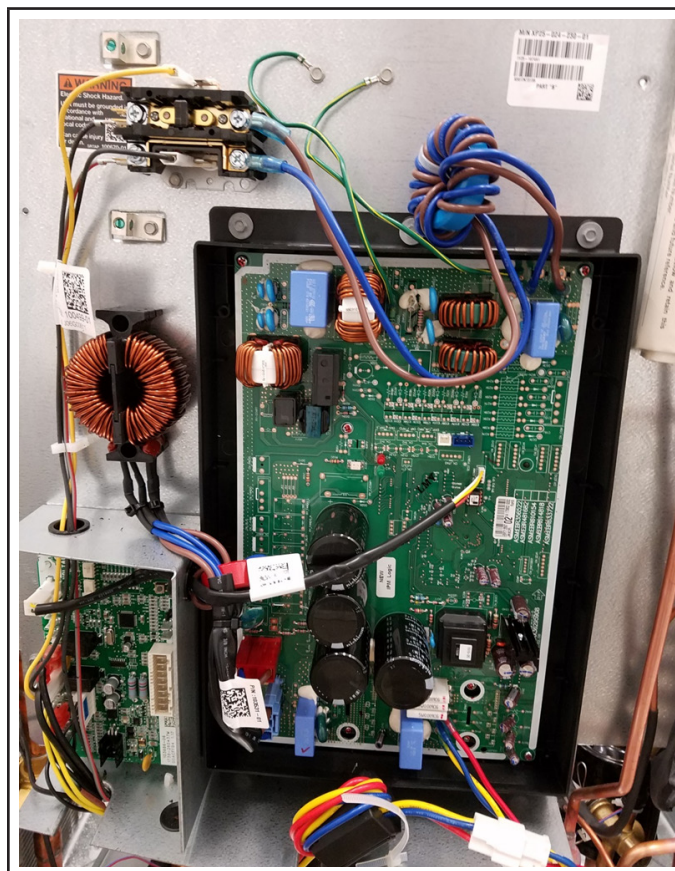
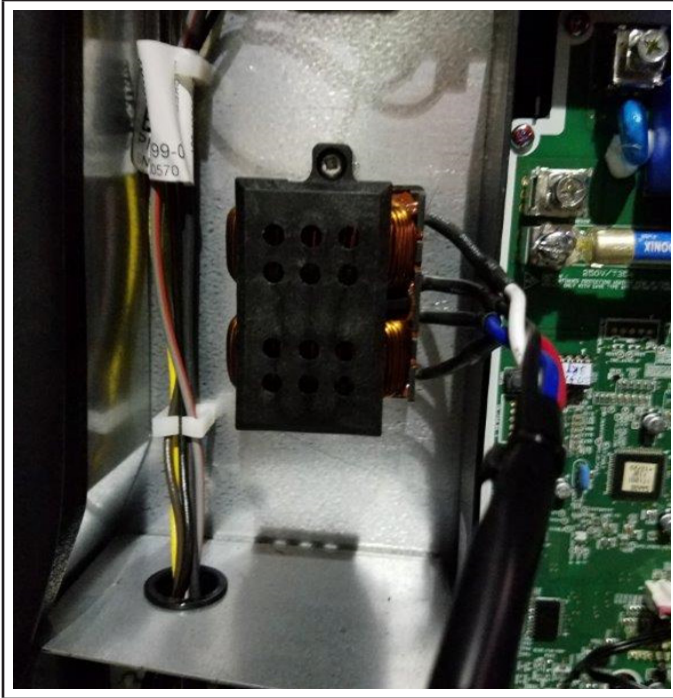


FIGURE 1

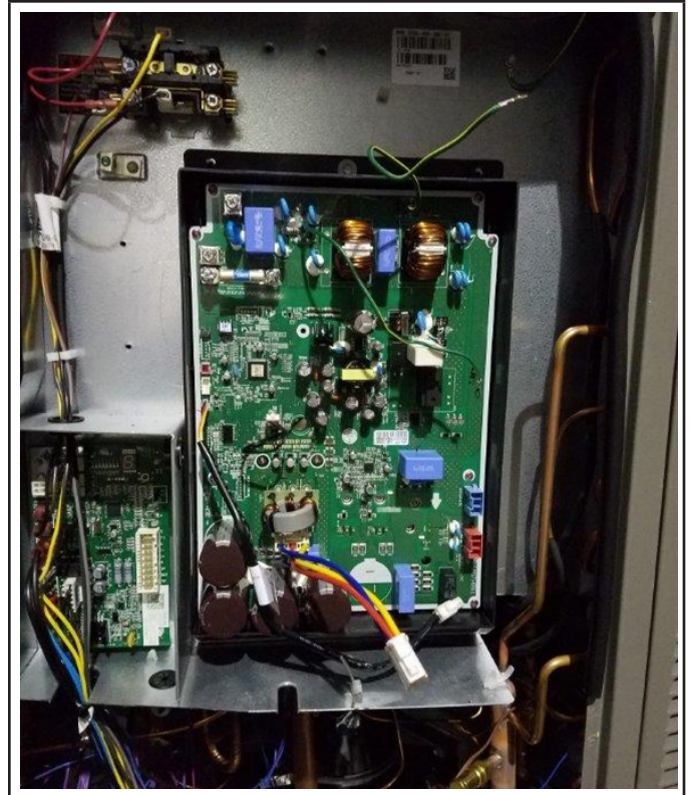
- 5 - Remove six screws securing existing inverter board and remove it. Retain the screws.
- 6 - Remove two screws securing the existing reactor and remove it. Retain the screws.
- 7 - Orient the new inverter board so that the four large capacitors are at the bottom of the board.
- 8 - Install the new inverter in the control panel, positioned just above the heat sink and flat against the back of the control panel. Use the six screws removed in step 4.

- 9 - Orient the new reactor with the wires facing right toward the inverter.  
**NOTE** – You may need to bend the wires vertically in order to clear the inverter case. Install reactor using the screws removed in step 5. Refer to figure 2.



**FIGURE 2**

- 10 - Reconnect all inverter board wiring:
- Red and blue plugs from reactor
  - 3-wire compressor plug
  - Communication wire to MUC control board
  - Two ground wires
  - Blue and brown wires with fork connection at contactor. Brown on top, blue on bottom. Refer to figure 3.



**FIGURE 3**

- 11 - Replace sheet metal barrier plate.  
12 - Reinstall control panel access panel.  
13 - Restore power to the unit.