Home Hub Three-phase Inverter External Fans replacement - Support kit manual

This manual describes the procedure for replacing the 12-pin External Fans

PN: FLD-3PH-48B-EFAN-A-02

Revision history

Version 1.0, March 2024 – Initial release

Kit contents

- Home Hub Three-phase inverter External Fans (12-pin)
- New cable with two connectors for the fan side (8-pin and 4-pin)

Required tools

- PH2 Philips screwdriver

Before you begin

1. Set the P/1/0 switch **0** (OFF).

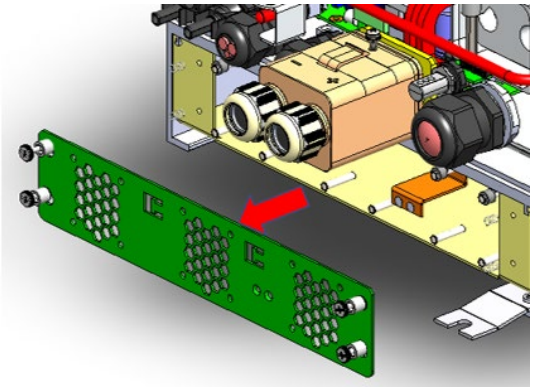
2. Disconnect AC power to the inverter by turning OFF the main circuit breaker and wait at least five minutes for the DC Voltage inside the inverter to drop to a safe level.
3. Disconnect power between the battery and the inverter by turning off the Battery circuit breaker.

WARNING

Make sure to turn off the inverter and battery AC circuit breakers, as well as the battery power switch.

Remove the damaged external fan assembly

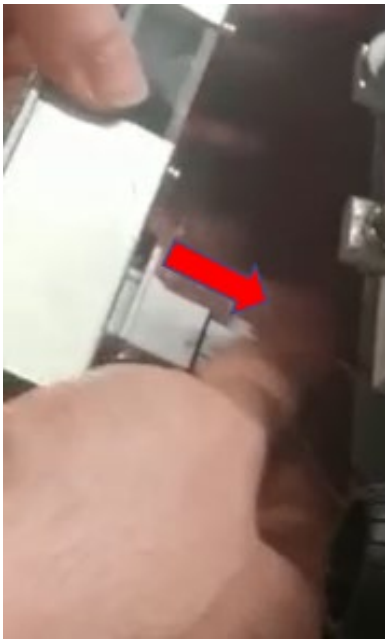
1. Using a PH2 Philips screwdriver, loosen the four (4) captive screws at the bottom of the inverter that hold the External Fans assembly in place.
2. Pull the External Fans assembly away from the inverter.



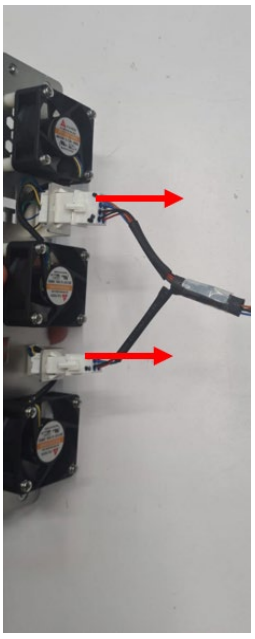
3. Disconnect the External Fans assembly power cable connector (or connectors) from their power socket/s.

IMPORTANT NOTE

- If the damaged fan assembly is an old version, there will be only 1 connector to disconnect.
- If the damaged fan assembly is the new 12-pin version, there will be 2 connectors to disconnect.



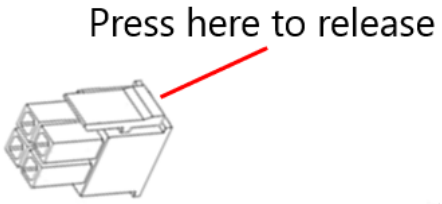
Old fan assembly – remove one connector



New fan assembly – remove two connectors

NOTE

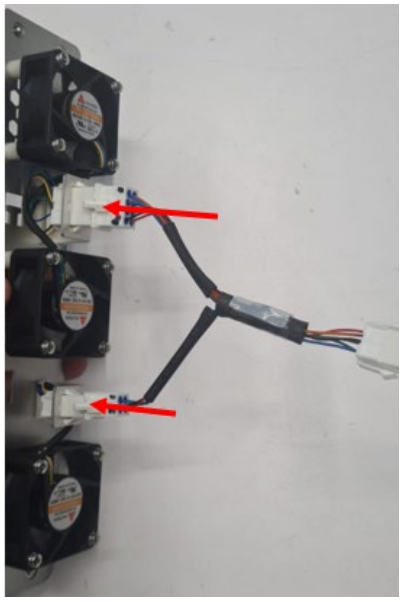
- The cable connector is fitted with a locking mechanism. Press the lever to release the locking mechanism before trying to disconnect the connector from the socket.
- Never pull on the wires to remove the connector from its socket.



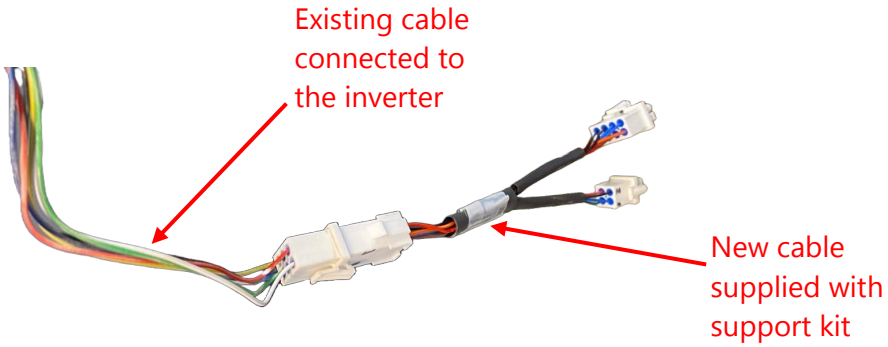
4. Discard the damaged External Fans assembly.

Install the replacement External Fans assembly

1. Remove the new External Fans assembly and the new cable from the packaging.
2. If the inverter already has the new 12-pin cable attached, re-connect the 4-pin and 8-pin power cable connectors to their respective power sockets on the new External Fans assembly. Make sure you hear a click. Pull the connectors gently to make sure they are properly connected.

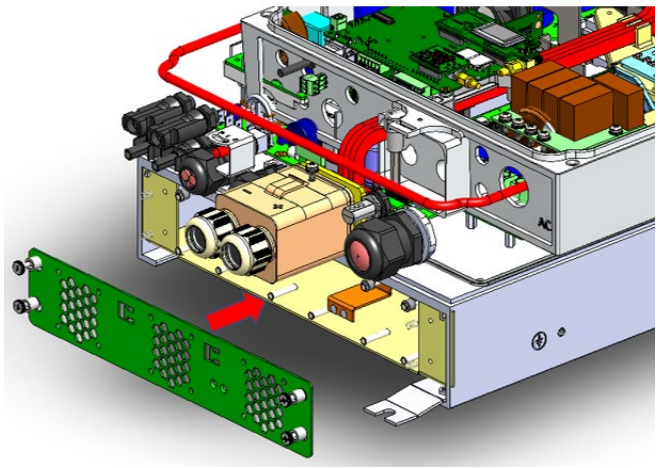


3. If the inverter still has the old single-connector cable attached, connect the new cable (supplied) to the existing cable connector.



4. Connect the 4-pin and 8-pin power cable connectors to their respective power sockets. Make sure you hear a click. Pull the connectors gently to make sure they are properly connected.

5. Place the new External Fans assembly into position.



6. Insert the four screws and use a PH2 Philips screwdriver to tighten to a torque of 1.3N·m (11.5lbf·in).

Turn on the inverter

1. Turn on the inverter and the battery AC circuit breakers.
2. Set the inverter P/1/0 switch to **1** (ON).
3. Turn ON the battery.