

SolarEdge TerraMax™ Inverter internal fan for short bracket replacement – Support kit manual

This manual describes the procedure for replacing the SolarEdge TerraMax Inverter Internal Fan for Short Bracket.

Revision history

- Version 1.2, July 2024 – Updated name of DC switch and required tools
- Version 1.1, March 2024 – Changed name to TerraMax
- Version 1.0, December 2023 – Initial release

Kit contents

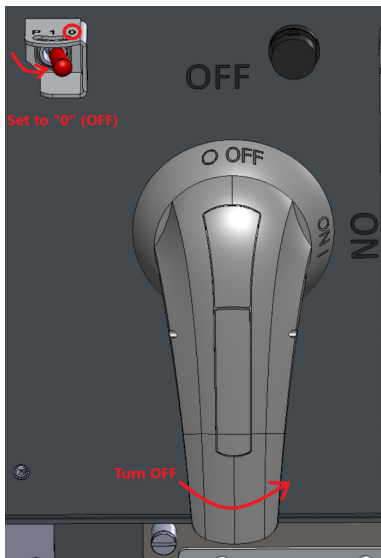
- SolarEdge TerraMax Inverter Internal Fan for Short Bracket
PN FLD-3PH-OR-IN-01.

Required tools

- Torque screwdriver
- 4mm hex bit
- Flat screwdriver
- Voltmeter

Before you begin

1. Set the P/I/O switch to "0" (OFF).
2. Turn the DC Disconnect (DCD) switch to the OFF position.



3. To lock the DCD switch, pull the white tab out away from the blue handle and insert a padlock through one of the holes.
4. Lock the padlock.



DCD switch safety padlock

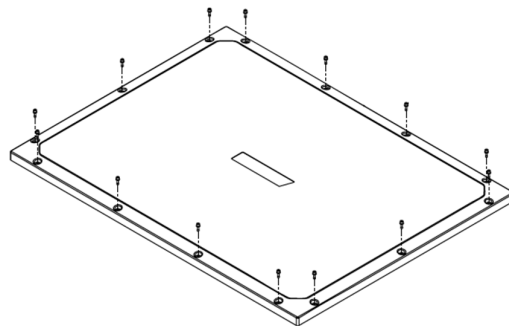
5. Disconnect AC power to the inverter by turning OFF the circuit breaker in the power distribution panel.
6. Wait at least five minutes for the DC Voltage inside the inverter to drop to a safe level.
7. As an additional safety precaution, lock the power distribution panel.

Remove the cover

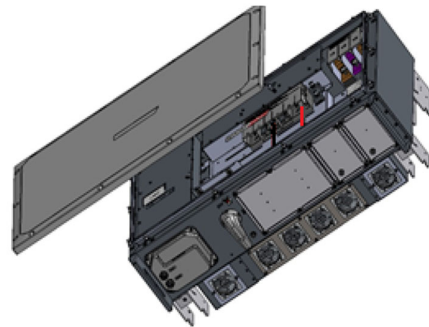
NOTE

The inverter cover assembly is too big for one person to handle safely. SolarEdge recommends that two people remove and handle the cover assembly.

To remove the inverter cover, use a screwdriver with a 4mm hex bit to release the screws holding the cover in place.



Inverter Cover Assembly

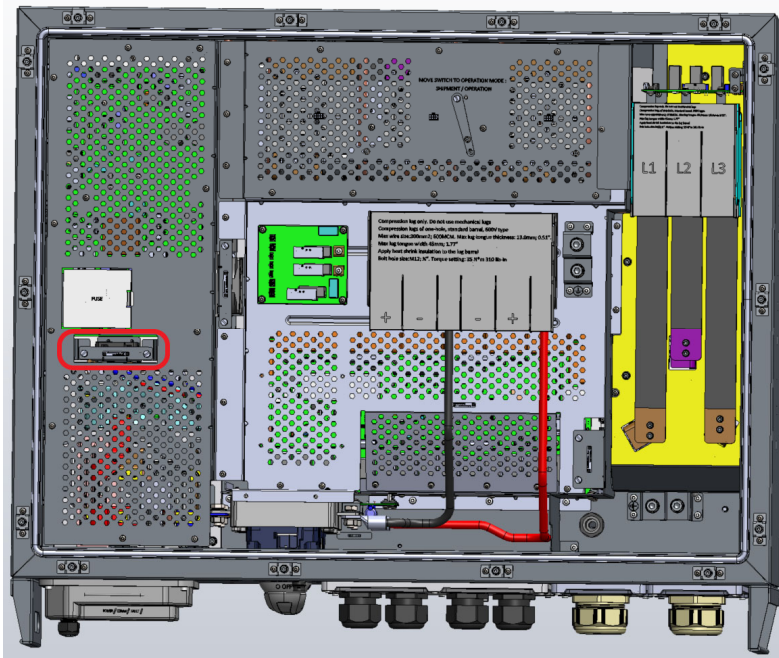


WARNING!

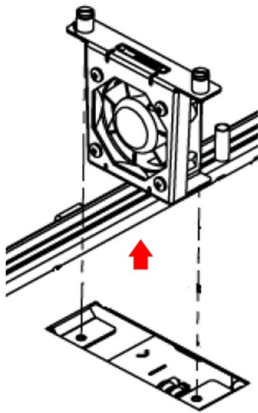
Before doing any maintenance work on the inverter, test for safe AC and DC voltages.

Remove the damaged fan

1. Locate the fan for short bracket.



2. Using a flat screwdriver, loosen the two screws holding the fan.
3. Pull the fan and bracket out of the inverter.

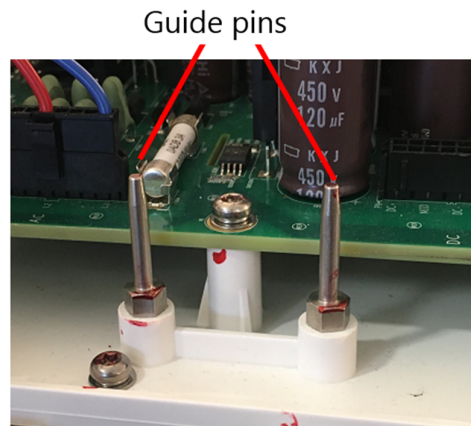
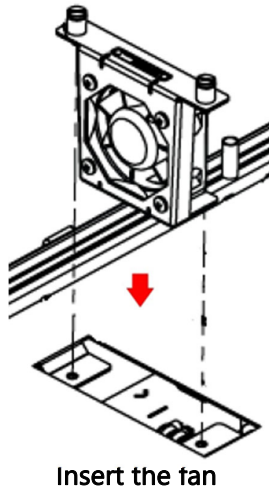


Remove the fan and bracket

4. Disconnect the fan's power cable.

Install the replacement fan

1. Reconnect the fan's power cable. Pull gently on the connector to make sure it is properly connected.
2. Insert the fan into position.

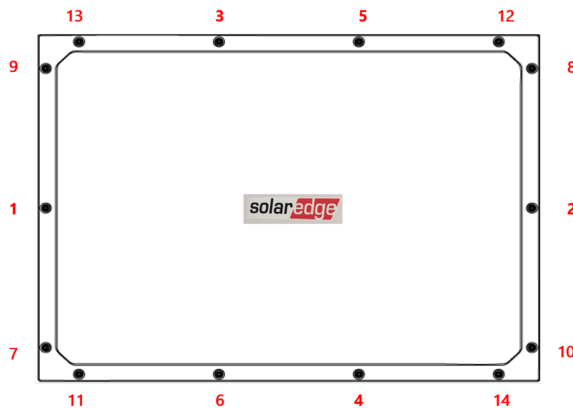


3. Ensure that the holes at the bottom of the bracket engage with the two guide pins.

NOTE

When installing the fan and bracket, the bracket must not touch the bus bar.

4. Using a flat screwdriver, tighten the fan assembly clamping screws to a torque of 2.4N·m (21.2lbf·in).
5. Place the cover assembly in position and, using a torque wrench with a 4mm hex bit, tighten the screws to a torque of 3.9N·m (34.5lbf·in).
6. Tighten the screws in the following sequence:



Screw tightening sequence

Turn on the power

1. Unlock the power distribution panel and turn ON the AC circuit breaker/s.
1. Remove the padlock and turn the DCD switch ON.
2. Set the P/1/0 switch to "1" (ON).