

# SolarEdge Home Hub Three Phase Inverter Digital Board Replacement - Support kit

This manual describes the procedure for replacing the Inverter Digital Board PN FLD-AG-48B-DIGT-A-01.

## Revision History

- Version 1.0, August 2023 - Initial release.

## Kit Contents

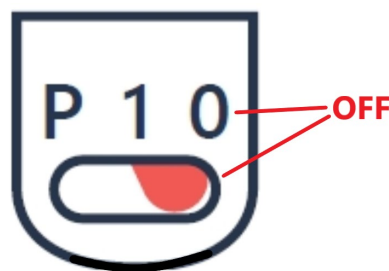
- SolarEdge Home Hub Three Phase Inverter Digital Board Support kit.

## Required Tools

- Torque wrench
- 4mm hex bit
- PH2 Philips screwdriver

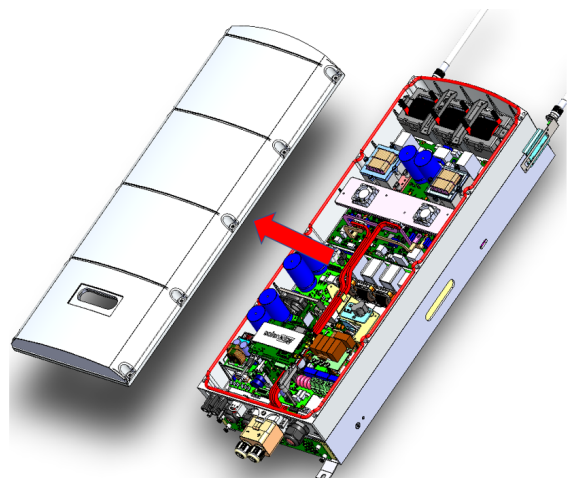
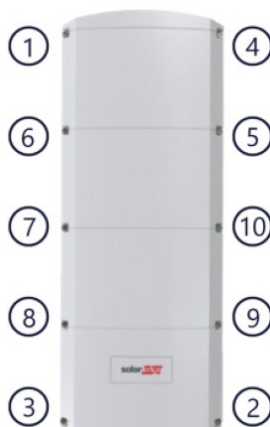
## Removing the Inverter Cover

1. Set the ON/OFF/P switch to "0" (OFF).



ON/OFF/P switch set to "0" (OFF)

2. Turn OFF the main circuit breaker in the power distribution panel and wait at least five minutes for the DC voltage inside the inverter to drop to a safe level.
3. Using a 4mm hex bit, loosen the cover captive screws in the sequence shown.
4. Release all the screws and remove the cover.

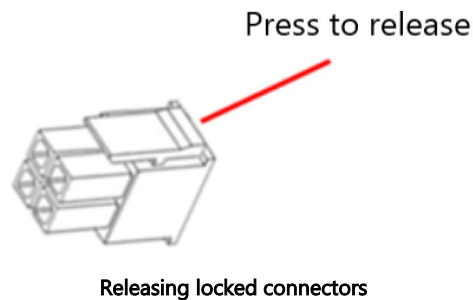


Removing the Cover

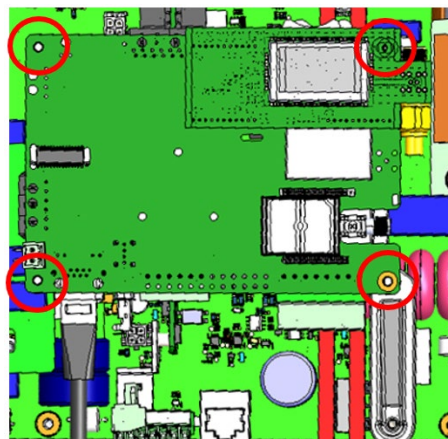


**NOTE**

- Some cable connectors are fitted with locking mechanisms. Press the lever to release the locking mechanism before trying to disconnect the connector from the socket.
- Do not pull on the wires to remove the connector from the socket.



3. Using a PH2 Philips screwdriver, remove four (4) screws holding the Communications board in place. Make sure not to let the screws fall inside the inverter.

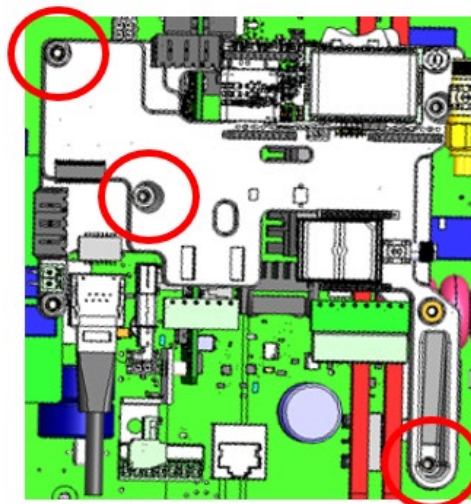


Removing the screws holding the Communicaton board

4. Move the Communications board to the side taking care not to pull on any of the cables still attached to the board.

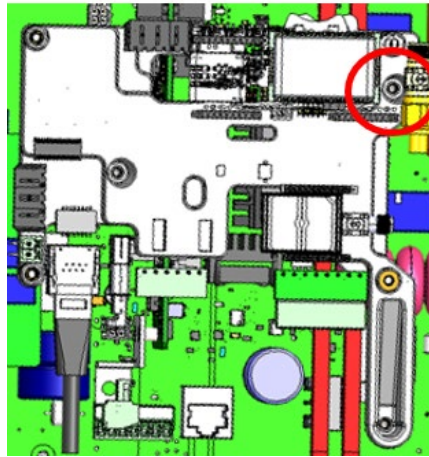
## Removing the Digital Board

1. Using a PH2 Philips screwdriver, remove the three (3) screws (shown) holding the Plastic Linux Adaptor in place.



Remove these three screws first

2. Loosen the fourth screw as shown. Do not remove the screw.



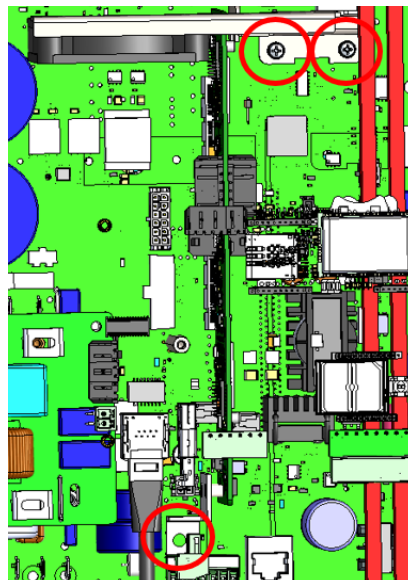
Loosen the fourth screw

3. Move (rotate) the Plastic Linux Adaptor out of the way.



Moving the plastic Linux Adaptor out of the way

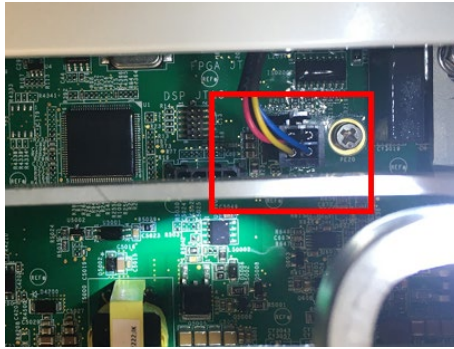
4. Using a PH2 screwdriver, remove the screws holding the Digital Board assembly in place.



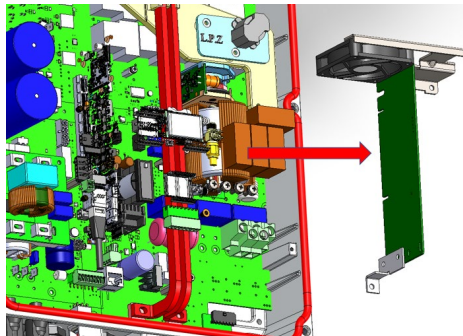


**Removing the digital board screws**

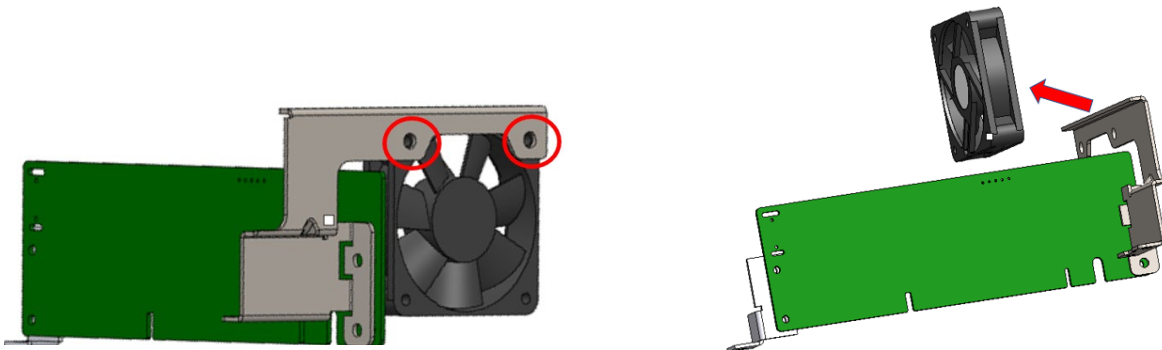
5. Disconnect the fan's power cable from the Power Board.

**Disconnecting the fan power cable**

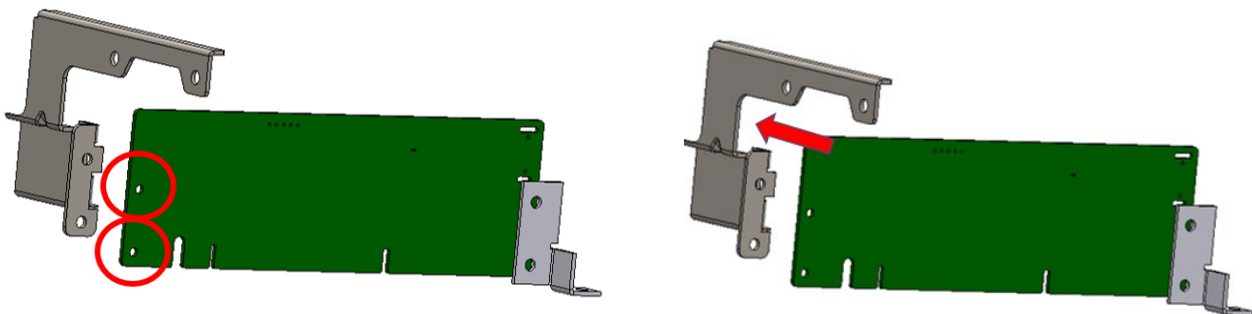
6. Carefully pull the Digital Board assembly out from the main board.

**Removing the Digital Board assembly**

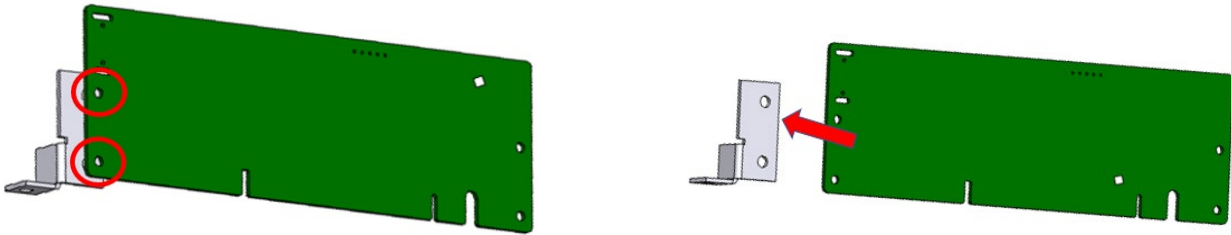
7. Using a PH2 screwdriver, remove the screws holding the fan to the Digital Board and remove the fan.

**Removing the fan**

8. Using a PH2 screwdriver, remove the screws holding the fan bracket to the Digital Board.

**Removing the fan bracket**

- Using a PH2 screwdriver, remove the screws holding the short bracket to the Digital Board.



Removing the short bracket

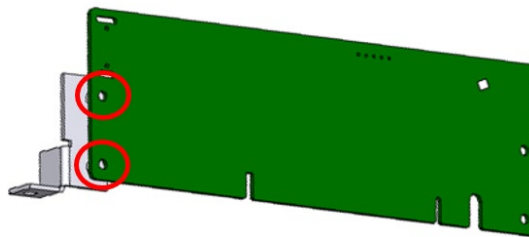
## Installing the Replacement Digital Board



### NOTE

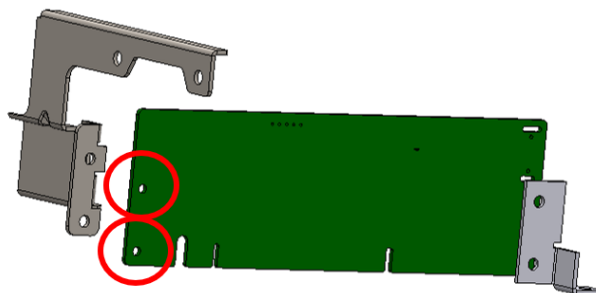
Make sure that you have all the necessary screws available before starting the replacement procedure.

- Place the short bracket in position on the new Digital Board and, using a PH2 screwdriver and a torque wrench, tighten the screws to a torque of 1.2N·m (10.6 lbf-in).

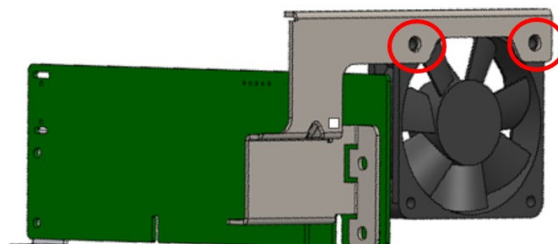


Reattaching the short bracket

- Place the fan bracket into position on the new Digital Board and, using a PH2 screwdriver and a torque wrench, tighten the screws to a torque of 1.2N·m (10.6 lbf-in).

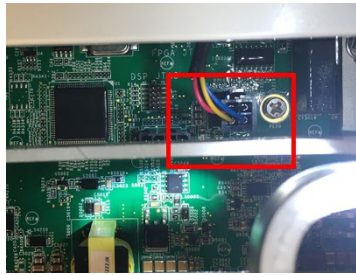


- Place the fan into position on the fan bracket and, using a PH2 screwdriver and a torque wrench, tighten the screws to a torque of 1.8N·m (15.9lbf-in).

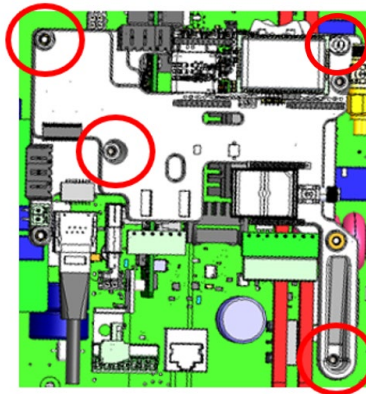


- Insert the Digital Board assembly into its mating connector on the main board.

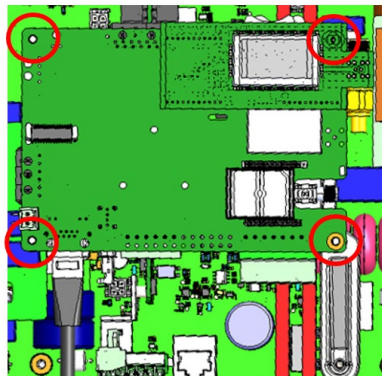
5. Insert the screws and tighten them to a torque of 1.1N·m (9.7lbf-in).
6. Reconnect the fan power cable to the Power Board.



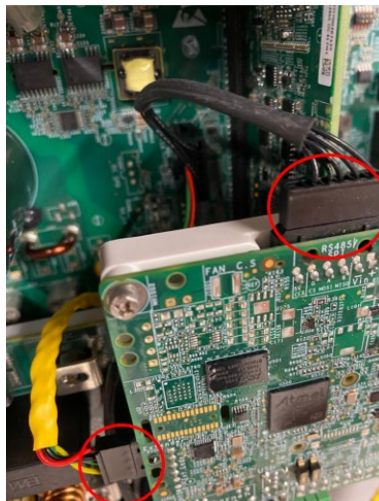
7. Swing the Plastic Linux Adaptor back into place.
8. Insert the screws and tighten all four screws to a torque of 1.1N·m (9.7lbf-in).



9. Place the Communications board onto position and insert the screws.
10. Tighten the screws to a torque of 1.1N·m (9.7lbf-in).



11. Reconnect the two connectors to their sockets on the Communications board.

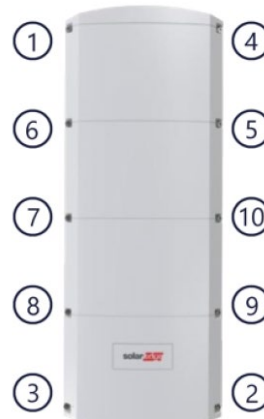
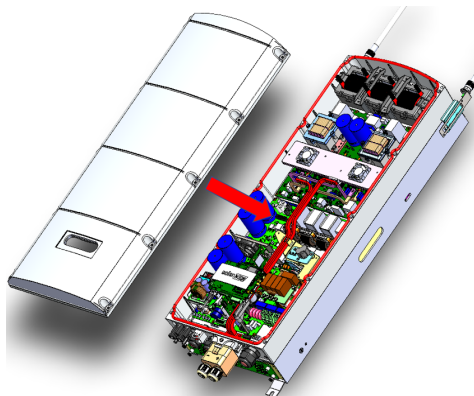


12. Reconnect the antenna cable to the Home Network Module.



## Reattaching the Cover Assembly

1. Place the cover in position and insert the screws.
2. Using a 4mm hex bit and a torque wrench, tighten the screws to a torque of 4N·m (35.4lbf-in).
3. Tighten the screws in the sequence shown:



Reattaching the cover

## Powering ON the Inverter

1. Turn ON the main AC circuit breaker.
2. Set the ON/OFF/P Switch to "1" (ON).