

INSTRUCTION SHEET

This document describes how to remove and replace the gateway inside the PWRcell 2 Smart Disconnect Switch (SDS).



WARNING

Electrocution. Potentially lethal voltages are generated by this equipment. Render the equipment safe before attempting repairs or maintenance. Failure to do so could result in death or serious injury.

(000187)

Tools and Materials

- Safety glasses
- Phillips and M3 Torx screwdrivers
- Electrostatic discharge (ESD) gloves
- Replacement gateway and QR code label

Outline of Steps

1. Disable system power.
2. Remove existing gateway.
3. Install new gateway.
4. Restore system power.
5. Recommission system.

1. Disable System Power

1. Turn OFF the BATTERY DISCONNECT switch (upper left of battery).
2. Turn OFF ESS 1 breaker in SDS (and ESS 2 breaker if equipped).
3. Turn OFF AC PV breaker in SDS.
4. If equipped with generator, disable generator via control panel per instructions in owner's manual.
5. Turn OFF main breaker in SDS if SDS is service equipment.
OR
Turn OFF breaker in upstream panelboard feeding SDS if SDS is not service equipment.

NOTE: If remote E-Stop is wired to SDS, open E-Stop to initiate a system-wide shutdown then turn OFF utility breaker at SDS as an alternative method to disable system power.

Instructions

Only [qualified](#) persons as defined by the National Fire Protection Association (NFPA) 70, National Electrical Code (NEC) should access or work on the connections within the PWRcell 2 system. These instructions may only be performed by qualified persons in compliance with all NEC, Canadian Standards Association (CSA), and Occupational Safety and Health Administration (OSHA) regulations.

2. Remove Existing Gateway

1. See **Figure 1**. Remove front cover from SDS by first loosening captive fasteners on side of cover and then lifting up and toward you.
2. Remove two screws holding top cap, then remove top cap.

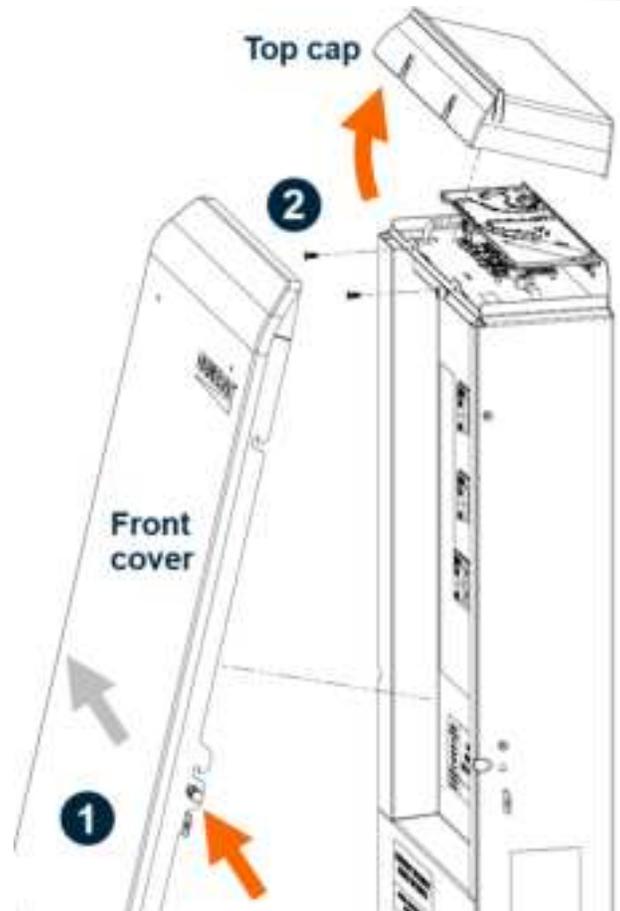


Figure 1. Remove front cover and top cap

3. See **Figure 2**. Put on ESD gloves, then remove two screws holding antenna board.
4. Carefully disconnect each of the three antennas from gateway by squeezing tab, then remove antenna board.
5. Unplug Ethernet cable (if equipped) from left side port.
6. Unplug comm connector from right side port.
7. Remove six gateway screws, then remove gateway.

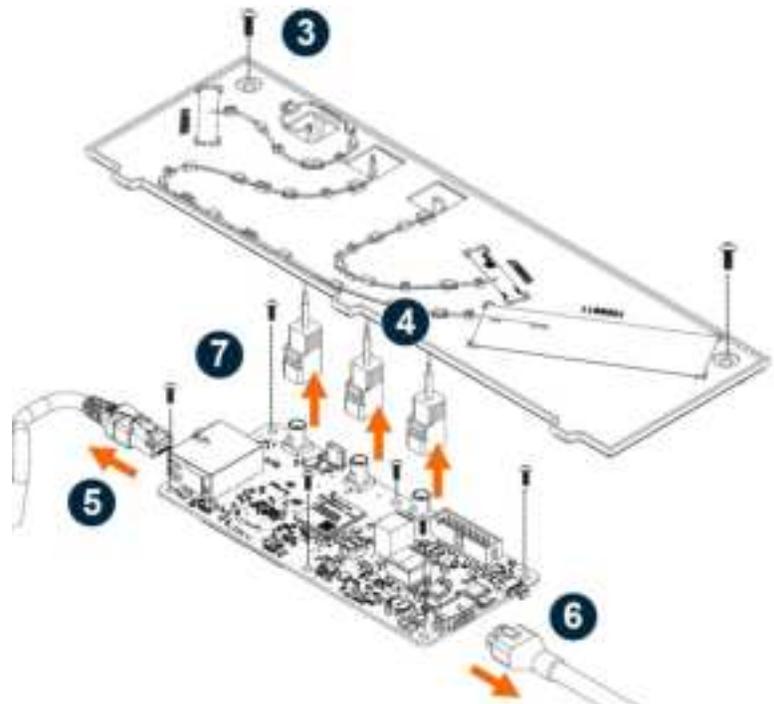


Figure 2. Remove existing gateway

3. Install New Gateway

See **Figure 3**.

1. Reuse six screws to install new gateway onto SDS.
2. Remove right dust cover from left side port and reconnect Ethernet cable (if equipped).
3. Reconnect comm connector to right side port.
4. Position antenna board over gateway and carefully reconnect three antenna connections (push on).
5. Reinstall two antenna board screws.
6. Reposition top cap and reinstall two screws.
7. Replace front cover and retighten captive fasteners.

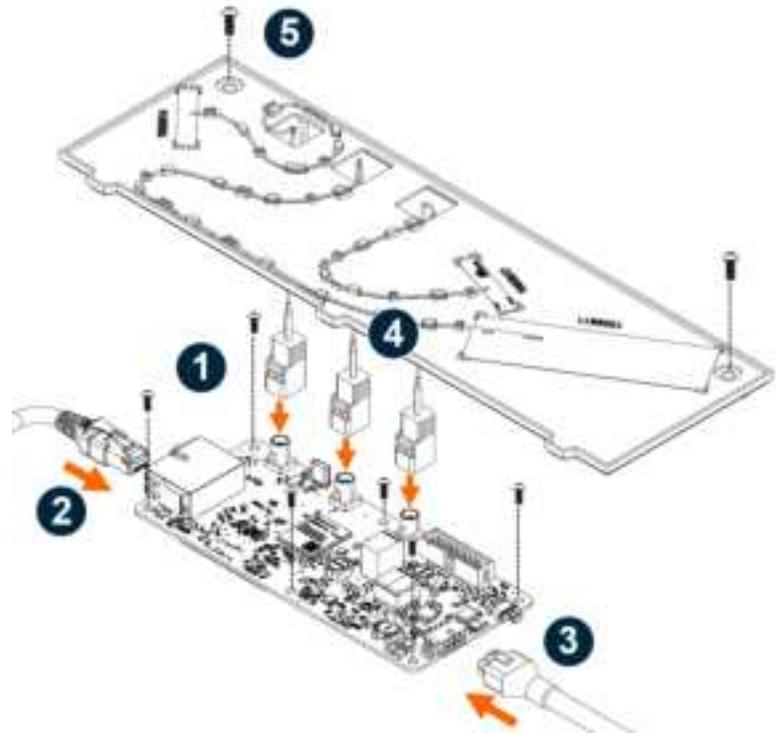


Figure 3. Install new gateway

4. Restore System Power

1. If remote E-Stop is open, close it.
2. Turn ON main breaker in SDS.
OR
Turn ON breaker in upstream panelboard feeding SDS.
3. Reenable generator (if equipped) per instructions in owner's manual.
4. Turn ON AC PV breaker in SDS.
5. Turn ON ESS 1 breaker in SDS (and ESS 2 breaker if equipped).
6. Turn ON the BATTERY DISCONNECT switch (upper left of battery).

5. Recommission System

1. Affix new QR code over existing QR code on SDS dead front.
2. Use Field Pro app to recommission system:
 - a. Scan new QR code.
 - b. Complete recommissioning process.