

NSSPCM Assembly Plan

Necessary Participants:

The NSSPCM may be assembled successfully by one individual, but a second individual is recommended.

STEP 1: Place Solar Panel face down on work surface, insert cables through the opening in the enclosure and connect them to the PCB. [NOTE: This must be done before the PCB is placed into the enclosure for clearance reasons. Small regular screwdriver will be needed.]

STEP 2: Slide the assembled PCB into the enclosure and insert the enclosure/PCB unit into the Cradle portion of the frame.

STEP 3: Insert all other cables (Communication, Temperature, and Output Voltage) through the opening in the enclosure and make all appropriate connections onto the PCB.

STEP 4: Place Lid onto the Enclosure and secure it the bottom portion of the Panel Mount frame. This is achieved by inserting the four (4) 7/16" bolts into the mounting holes and using four (4) Nylon Lock Nuts to secure them. [Use the two (2) 7/16" wrenches for this step]

STEP 5: Insert the Solar Panel through the remaining Panel Mount portion as to not interfere with the cables. [This portion of the frame must be UNDER the Solar Panel cables but on top of the Solar Panel itself.] Ensure that all twenty (20) mounting holes align properly between the Solar Panel and the frame portion.

STEP 6: Place Solar Panel and frame section on top of the previous assembly. Ensure that all twenty (20) holes align between the upper portion of the frame, the Solar Panel, and the lower portion of the frame.

STEP 7: Begin inserting mounting bolts through the Panel Assembly. Each bolt will mate to a Nylon Lock Nut and should be tightened using the Phillips Screwdriver and 5/16" wrench. [NOTE: Begin with the four (4) corners of the Solar Panel. Once tightened, complete the remaining bolts.]

Necessary Tools:

2	7/16" Wrenches
1	5/16" Wrench
1	Phillips Screwdriver
1	Flat-head Screwdriver (Small)

