

# SOLN1 25 Kit Build Guide

All perspectives from  
the back with the  
junction box held at  
the top

**WH-**: Wiring harness negative    **CC**: Charge controller

- Cut PVC frame tubes, 2× 8 $\frac{7}{8}$ " and 2× 19 $\frac{3}{4}$ "
- Glue frame together, one short piece between two machined corners as top and the other two corners between the other three pieces as bottom
- Drill two  $\frac{1}{8}$ " holes in the bottom corners and two more near the top corners
- Feed longer **WH-** into bottom left hole and up tube, then attach tape to **WH-** and end of tube and feed **WH-** back down
- Repeat for shorter **WH-** on bottom right
- Attach fuzzy side of Velcro to front inside of the top frame tube, other side on top with no backing
- Lay 1" mounting tape  $\leq \frac{1}{8}$ " to inside of panel outline on front of bottom three frame tubes
- Bow panel into place on tape, Velcro
- Attach **CC** centered below top of frame on back of panel with halved 3" × 1" mounting tape strips and Al spacers between
- Loosen **CC** junction screws; connect right solar junction to ☀+ on **CC**, left to ☀- on **CC**
- Center large sticker along top front not obscuring solar cells
- Connect red 3 $\frac{1}{2}$ " female battery plug to **CC** battery +, black 3" to **CC** battery -
- Program **CC** battery low to 10.5V, high to 14.4V
- Check that panel charges
- Clip zip ties on either side, latches toward **CC**
- Connect inverter leads, + trimmed longer than - and tinned, to load +/- on **CC**
- Check that inverter powers USB, AC load
- Mount hook side of Velcro to inverter, other side to panel centered below **CC**
- Align "unplug" sticker on right to top of inverter, "feed me" on left
- Feed longer + on male battery plug into top left, shorter + into top right