

## Solar SPEC Pak™ 4 Position Panel Mount Receptacle Assembly Instructions

### SPEC Pak™ Panel Mount Receptacle Kit (PK2-050B04) Components



Powerpole® Holder, Receptacle



Receptacle Shell with Latch

#### 1. Wire Preparation

1a. Discrete Wire for Powerpole® or Ground contacts – Strip insulation 5/16 inch (8 mm) from the end of the wires to be terminated, being careful not to damage the copper conductors. (See assembly instruction 1S1072 for complete instructions)

1b. Discrete Wires for PPMX – Strip insulation 0.25 inches (6.3 mm) from the end of the wires to be terminated, being careful not to damage the copper conductors. **IMPORTANT: Strip length must be 0.25 inches  $\pm$  0.03 (6.3mm  $\pm$  0.8) to ensure normal operation. (See assembly instruction 1S6543 for complete directions).**

2. Terminate Contacts to individual wires by inserting contact into the recommended Anderson crimping tools and crimp. See SPEC Pak™ Data Sheet for additional information on contacts. Keeping all Powerpole® and Ground contacts on a similar plane while crimping will make installation into Powerpole® Housings and SPEC Pak™ Holder easier. (See Figure 1)

Crimping with non-APP recommended tools may produce high resistance or contact distortion, resulting in improper seating of the contact in the Powerpole® Housing. Use of other tools may also effect UL & CSA approval.

3. Slide SPEC Pak™ Receptacle Panel Mount Sealing Gasket and Shell onto wires. Panel Sealing Gasket should be between panel and rear of SPEC Pak® Receptacle. (See Figure 2)

#### 4. Install contacts into Powerpole® Housings

4a. Position Powerpole® contacts as shown holding the Powerpole® housings in the "hood up" position (See Figure 3b) and push contact and wire into Powerpole® Housing so contact snaps into place. The contact will slip under the internal barrier and snap over the end of the internal retaining spring (See Figure 4). Tug on wire to assure the contact is fully inserted. Repeat until all wires and contacts have been firmly locked into their respective Powerpole® Housings.

4b. PPMX Housing: If applicable, install crimped PPMX pin contacts into the Holder as shown (See Figure 5a). Make sure the contact shoulders are seated into holder groove. Flip the holder over and install the crimped socket contacts into the stepped side of the Holder, making sure the contact shoulders are seated in the holder grooves (See Figure 5b). Orient the PPMX housing as shown (See Figure 5c). With the sockets on top, insert the loaded Holder into the PPMX housing until latch catch engages with latch hole (See Figure 5c). A "click" will be felt and heard as the latch catch engages the hole. Gently tug the wires to confirm the housing is locked together.

### SPEC Pak™ Panel Mount Receptacle Exploded Diagram



Figure 1



Figure 2

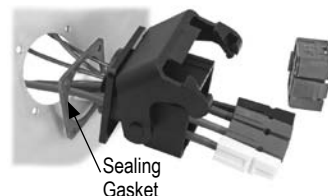


Figure 3a



Figure 3b



Figure 4

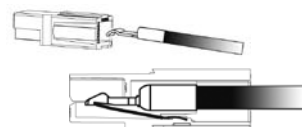


Figure 5a

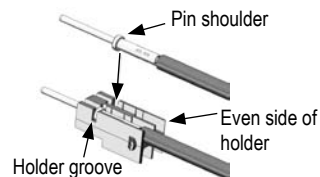


Figure 5b

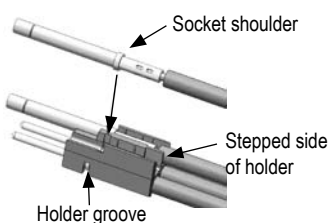
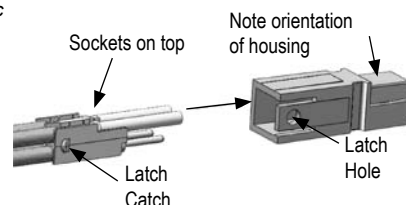


Figure 5c



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5. Position Holder with arrow on front is up (See Figure 6). Holder is marked with "Front". Insert Housings into Holder from top for position 1 & 2 and from bottom for position 3 & 4. The standard orientation for Powerpoles® in the SPEC Pak™ Receptacle are Hood Up (See Figure 3b).

6. Once all Powerpole® Housing are inserted into Holder, position the Receptacle Shell with the APP® Logo on top (up position). Position Holder with arrow on front of Holder pointing in the up direction. Press Holder into Receptacle Shell until Holder snaps into place (See Figure 7). Holder may be removed from the Receptacle Shell with a small flat screw driver. Insert screw driver beside Holder Latch and depress latch on one side (See Figure 8), then the other. Pushing on the wire or cable from the back, while depressing latches will help to remove the Holder. To re-insert the Holder repeat step 6.

7. Attach SPEC Pak™ Receptacle to Panel with #4 screws (not included). Make sure the surface of the panel contacting the sealing gasket is clean and dry to ensure an IP68 seal. (See Figure 9).

## Torque requirements

- Receptacle to panel: 2½ to 4 in-lbf (0.28 to 0.45 Nm)

**NOTE:** Product data sheets, assembly instructions, drawings, tooling information and other information for APP products may be found at [www.andersonpower.com](http://www.andersonpower.com).

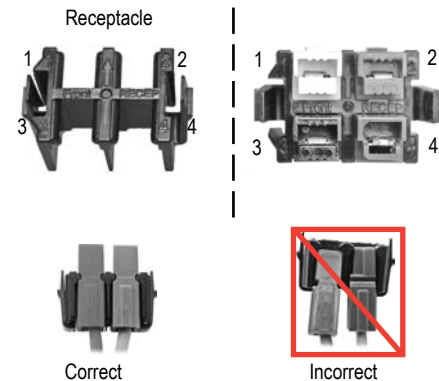


Figure 6

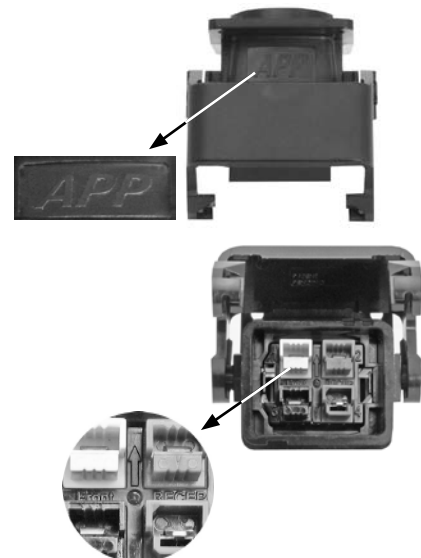


Figure 7



Figure 8



Figure 9

PATENTS AND TRADEMARKS This product is Patent Pending.

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