Pole Cap Assembly Kit

Model RFP7783-003

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General Information

The Model RFP7783-003 Pole Cap Assembly Kit provides a platform for securing a solar panel array, cellular antenna, and external ringer onto the top of a 4.0-inch O.D. steel pole. The assembly is designed to seal the interior of the pole against moisture. The kit includes the following components:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pole cap assembly with adjustable bracket</td>
</tr>
<tr>
<td>2</td>
<td>Water-tight hub (for solar panel and external ringer feed-through)</td>
</tr>
<tr>
<td>1</td>
<td>Siemens solar panel, 20 watt</td>
</tr>
</tbody>
</table>

Installation

Refer to Figure 1 while completing the following steps to install the Pole Cap Assembly.

Tools and Equipment Required

- Model RFP7791-001 External Ringer Kit with Stainless Steel Ringer Bracket
- Model RFP7783-002 Antenna Kit
- Integrity Loop Cable Assembly (Part No. 61504-101)
- Protractor
- Compass
- Specialized tamper-resistant Allen wrench
- 2/C AWG 20 wire, 15 feet (minimum jacket O.D. = 0.25 in.)
Pole Cap Assembly Instructions

The pole cap housing contains three holes: a 0.75-inch hole for the antenna coaxial cable, a 0.875-inch hole for the external ringer cable, and another 0.875-inch hole for the solar panel cable entry. The attached adjustable mounting bracket is used to mount the Siemens solar panel. Refer to Figure 1 below while completing the steps to install the pole cap assembly onto the pole.

Install the antenna, external ringer, and solar panel to the pole cap housing while on the ground:

1. Assemble cellular antenna onto pole cap housing through the 0.75-inch hole using installation directions and hardware supplied with Model RFP7783-002 Antenna Kit.

2. Secure the Siemens solar panel onto the pole cap housing’s adjustable mounting bracket using two U-bracket with the tamper-resistant hardware to clamp down on the inside lip of the solar panel. See Figure 1.

3. Secure Model RFP7791-001 External Ringer onto the pole cap housing’s horizontal bracket (1.14-inch (32mm) through hole) using the supplied ringer spacer bracket and ringer nut.

4. Double up the length of the integrity loop wire and tape or apply heat shrink tubing to join the solar panel cable to the closed end of integrity loop. Be sure to install integrity loop right up to the potted module on rear of solar panel. Feed the combined solar panel cable/integrity loop wire through one of the 0.875-inch water-tight hubs. Hand tighten the locking hub to seal.

Figure 1. Pole Cap Assembly with Exploded View
5. Feed external ringer cable through the other 0.875-inch hole. Use a wrench to tighten the locking hub to seal.

6. At the top of the pole: Feed solar panel cable/integrity loop wire, external ringer cable, and the antenna RG-58 coax cable down through top of pole. Seat pole cap assembly onto pole top.

7. Orient the pole cap assembly for a southern exposure in the northern hemisphere or a northern exposure in the southern hemisphere as determined by the compass bearing. Secure the assembly by using the 3 installed tamper-resistant Allen socket-head screws.

8. Adjust the solar panel elevation. Set the panel in accordance with the following chart using installation site latitude and corresponding tilt angles:

<table>
<thead>
<tr>
<th>Latitude of Installation Site</th>
<th>Tilt Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0° to 15°</td>
<td>15°</td>
</tr>
<tr>
<td>15° to 25°</td>
<td>Angle is same as latitude</td>
</tr>
<tr>
<td>25° to 30°</td>
<td>Latitude plus 5°</td>
</tr>
<tr>
<td>30° to 35°</td>
<td>Latitude plus 10°</td>
</tr>
<tr>
<td>35° to 40°</td>
<td>Latitude plus 15°</td>
</tr>
<tr>
<td>Plus 40°</td>
<td>Latitude plus 20°</td>
</tr>
</tbody>
</table>

9. Secure solar panel at the proper angle using tamper-resistant hardware supplied.
Warranty

**Equipment.** GAI-Tronics warrants for a period of one (1) year from the date of shipment, that any GAI-Tronics equipment supplied hereunder shall be free of defects in material and workmanship, shall comply with the then-current product specifications and product literature, and if applicable, shall be fit for the purpose specified in the agreed-upon quotation or proposal document. If (a) Seller’s goods prove to be defective in workmanship and/or material under normal and proper usage, or unfit for the purpose specified and agreed upon, and (b) Buyer’s claim is made within the warranty period set forth above, Buyer may return such goods to GAI-Tronics’ nearest depot repair facility, freight prepaid, at which time they will be repaired or replaced, at Seller’s option, without charge to Buyer. Repair or replacement shall be Buyer’s sole and exclusive remedy. The warranty period on any repaired or replacement equipment shall be the greater of the ninety (90) day repair warranty or one (1) year from the date the original equipment was shipped. In no event shall GAI-Tronics warranty obligations with respect to equipment exceed 100% of the total cost of the equipment supplied hereunder. Buyer may also be entitled to the manufacturer’s warranty on any third-party goods supplied by GAI-Tronics hereunder. The applicability of any such third-party warranty will be determined by GAI-Tronics.

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If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to GAI-Tronics with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.

Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.