

## MODULAR PEEP ASSEMBLY GUIDE

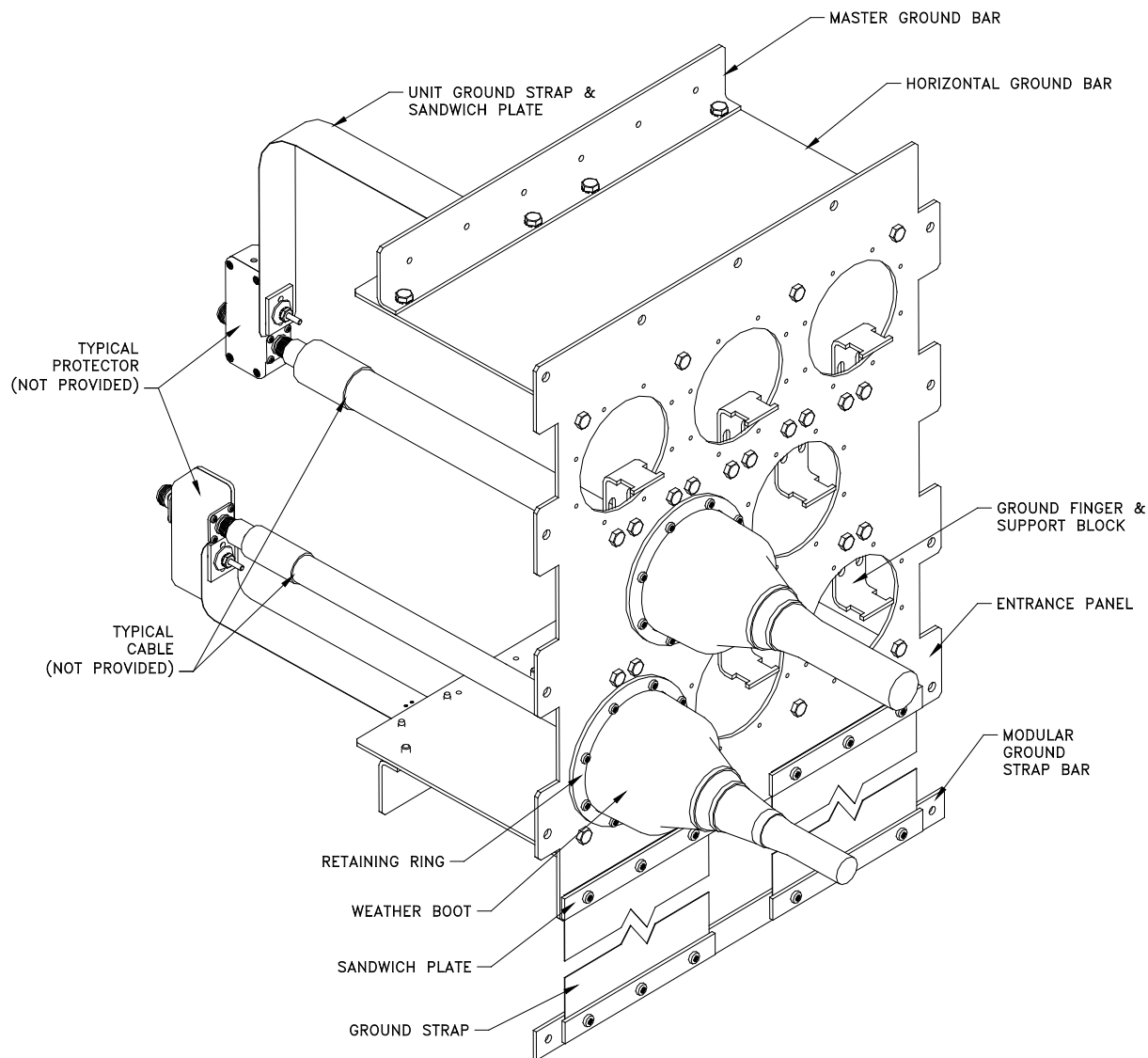
### 8 PEEP-M INSTALLATION SHEET

- 1) Entrance panel is installed on the exterior side of the equipment shelter. It has 5/16" holes arranged to coincide with standard 16" on-center studs. For hole cut-out dimensions, see page 4 of this guide. Use a weatherproof sealant between panel and siding.
- 2) The adjustable grounding finger provides a means of centering the cable or waveguide in the hole and a ground connection for the shield. Place the finger inside the panel protruding to the exterior. Hold it in place by the support block using the ¼-20 hex nuts and rubber washers provided.
- 3) After trimming the weather boot appropriately per the chart on page 4, slide the Retaining Ring and then the boot over the cable; slightly soapy water may ease the assembly. All future use ports should have boots attached as in step 12 to assure weather tightness.
- 4) Install Sandwich Plates to Horizontal Grounding Bars using the 10-32 x 5/16" screws and lock washers. Use these as the connection point for Ground Straps from Impulse Suppressors.
- 5) Install ¼-20 x ¾" bolts with ¼" lock washers to the flat entrance panel. Place ¼" lock washer and nut on the other side to secure the Horizontal Ground Bars with Sandwich Plates.
- 6) Prepare the interior opening: Determine the approximate location for the panel. Using a suitable tool, locate the stud nearest the desired location. Using the stud as your reference, measure and mark the opening per the hole cutout guide. Remove any sheetrock and insulation in the openings. Do not cut studs.
- 7) Prepare the exterior opening: Using the openings on the inside as a guide, drill the exterior siding at each corner. From the outside, use a straight edge to connect the holes. Remove the siding in the openings. Do not cut studs or remove siding on studs. Apply sealant to siding and install panel system.
- 8) Install each of the 6" wide ground straps in a sandwich between the entrance panel and the sandwich bars provided. Use the **\*conductive joint compound\*** in the (CCK) Copper Cleaning Kit to ensure a weatherproof electrical connection. Attach with 10-32 x 5/16" screws and lock washers.
- 9) The ground bar attaches to an existing perimeter ground system. Attach it to the 6" ground straps using brass 10-32 x ½" screws and 10-32 nuts. A full 15' of strap is included for each connection and may be trimmed as needed. Bolt or exothermically weld the ground bar to the perimeter ground system. Joint compound should be used on all bolted connections. PolyPhaser's CCK contains all the necessary equipment needed to clean and protect all of the copper joints.
- 10) Install the Master Ground Bars using ¼-20 round head screws, nuts and washers. These bars can be used as a central grounding location for internal equipment.
- 11) The coax/waveguide must be stripped to expose the shield (approx. 2" long) at the point of entrance. Determine the point of entrance (or how much cable should extend internally) prior to stripping coax or waveguide. Joint compound may be applied. Secure the coax/waveguide with one of the worm-gear clamps provided. Use 2 clamps for larger diameters.
- 12) Slide the weather boots and retaining rings back to the panel and attach using 8-32 x ½" machine screws and #8 lock washers. If there has been an error in cutting the boot, use the weather sealant provided to obtain a watertight seal between the coax/waveguide and the weather boot.
- 13) Use the nylon cable tie to secure the weather boot around the coax/waveguide.

**WARNING-** Do not connect during a storm! Do not connect when transmissions are occurring! Do not stay in an area that has operating equipment in an electrical storm!

*These commodities or technology are exported from the U.S. in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited.*
















## POLYPHASER® EARTHED ENTRANCE PANEL INSTALLATION



- 1) Read all instructions thoroughly. Keep this guide for future reference.
- 2) Remove all protective vinyl from copper components prior to installation.

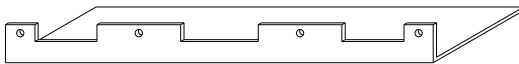
**NOTE:** Due to numerous shelter construction materials, PolyPhaser does not provide hardware to attach the bulkhead entrance panel to the equipment shelter; use lag screws, wood screws, anchor bolts, etc. Recommend pre-drilling screw holes. To provide an improved electrical connection, use cleaning pad and **\*conductive joint compound\*** from the (CCK) Copper Cleaning Kit at all copper-to-copper attachments. **[CAUTION: The conductive joint compound may cause irritation to sensitive skin. Precautions should be taken to protect skin during application. See instructions and MSDS provided with CCK.]** **WARNING:** When assembled, entrance panel systems are heavy and awkward to lift. Lifting the assembled system for fitting or installation may require 2 or more installers.

## 8PEEP-M PARTS GUIDE AND QUANTITIES

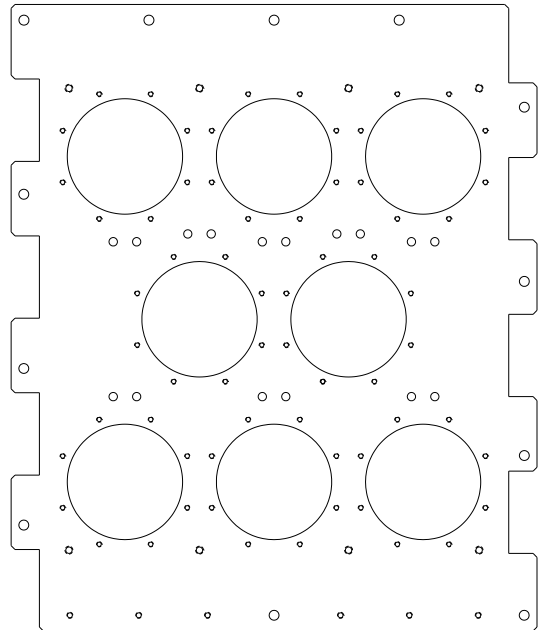
-  1241-0311-08 1/4-20 x 1/2" SLOT RD HEAD 8EA
-  1208-0001 #10 TAKE UP WASHER 8EA
-  1241-0711-12 1/4-20 X 3/4 HEX HEAD 32EA
-  1243-0002 1/4-20 EXT. LOCKWASHER 32EA
-  1229-0900 1/4 RUBBERIZED WASHER 16EA
-  1242-0001 1/4-20 HEX NUT 16EA
-  1211-0114-08 10-32 X 1/2 SLOT PAN HD BRASS 6EA
-  1211-0211-05 10-32 X 5/16 PHIL PAN MS SS 22EA
-  1213-0004 #10 EXT. LOCKWASHER BRASS 12EA
-  1213-0002 #10 EXT. LOCKWASHER 22EA
-  1212-0004 10-32 HEX NUT BRASS 6EA
-  1171-0211-08 8-32 X 1/2 PHIL PAN HD 65EA
-  1173-0002 #8 INT. LOCKWASHER 65EA
-  1009-0001 WORMGEAR CLAMP 8EA
-  1009-0002 WORMGEAR CLAMP 8EA



5410-0143 2EA  
MASTER GROUND BAR



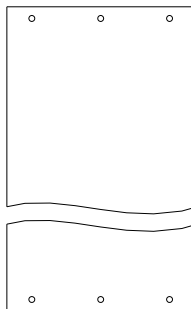
5410-0144 2EA  
GROUNDING PANEL



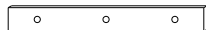
5410-0217 8 PORT MODULAR MAIN PANEL 1EA



5410-0136 UNIT GROUND STRAP 8EA



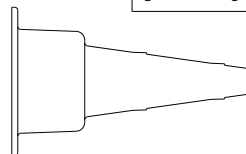
4033-0001 2EA  
GROUND STRAP



5410-0083 4EA  
SANDWICH BAR



5410-0082 8EA  
SUPPORT BLOCK



5900-0060 8EA  
WEATHER BOOT



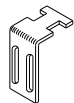
2900-0039 10EA  
NYLON CABLE TIE



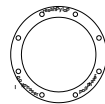
5410-0220 8 PORT COUPLER BAR



5410-0218 5 PORT GROUND BAR 1EA



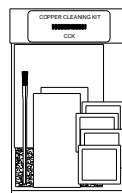
5410-0078 8EA  
GROUNDING FINGER



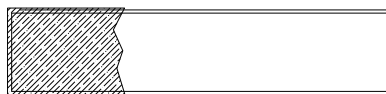
5430-0004 8EA  
RETAINING RING



5410-0135 8EA  
BACK-UP PLATE



CCK 1EA  
COPPER CLEANING KIT



6050-0022 1EA  
WEATHER SEALANT

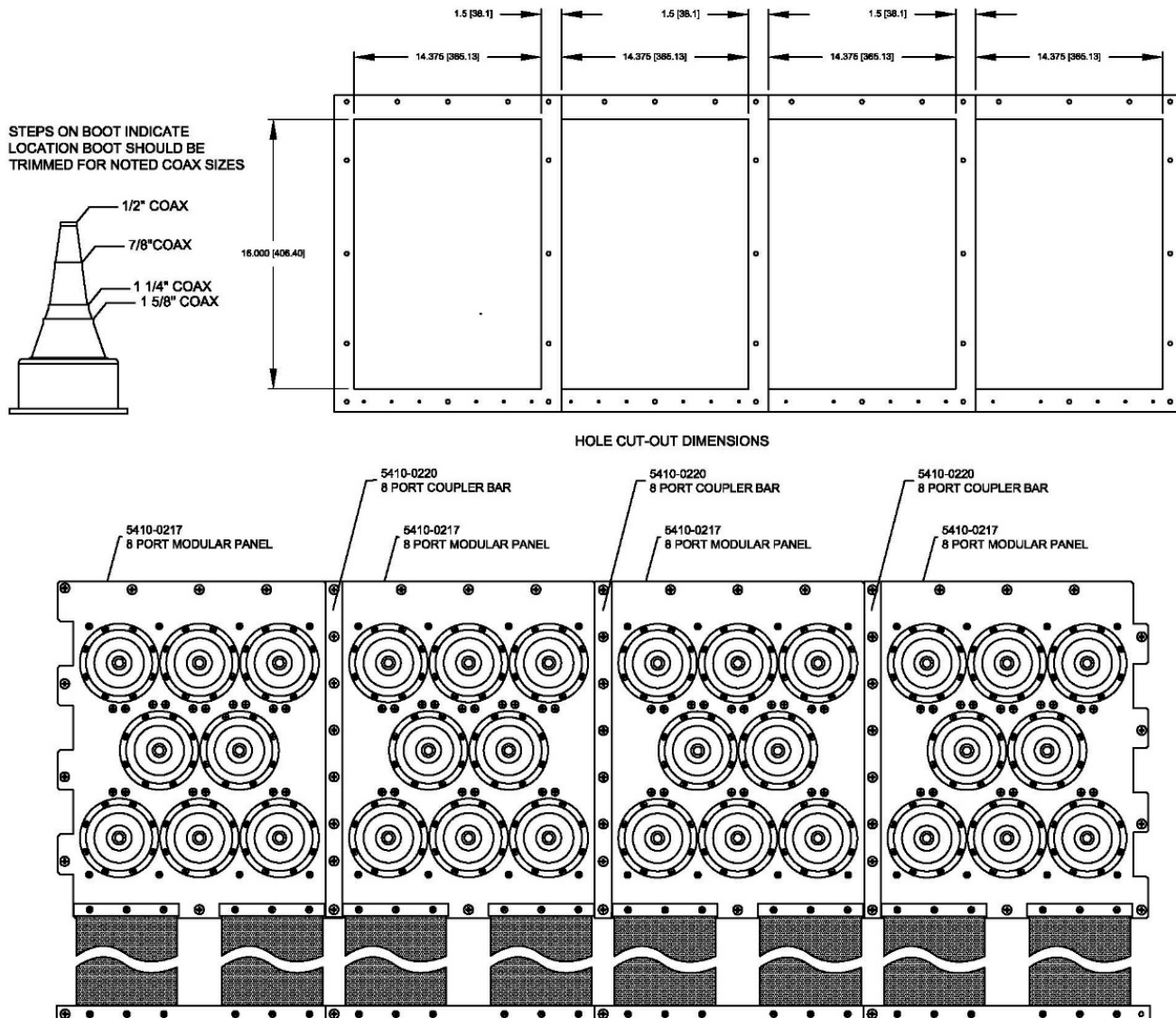


5410-0134 8EA  
SANDWICH PLATE

## MODULAR ENTRANCE PANEL INSTALLATION

PolyPhaser Modular Entrance Panels can be customized for multi-port entry by adding panels. The Entry Panels and combinations are for 16" stud spacing installation. In order to achieve optimum grounding, panels must be electrically bonded together by P/N 5410-0220 coupler bars included in the product.

Apply silicone caulking around the perimeter and joints of panels to prevent water entry. Mask the contact surface area of the coupler bar to prevent caulking material contamination and reduce electrical bonding. If the panel is a standalone, coupler bars will not be required. The surface of the coupler bar and contact area must be free of dirt, oxidation, grease and other foreign materials. Apply copper joint compound on both panel and coupler bar prior to installation.



To simplify installation, Weather Proofing Kits (WK-1) and Copper Cleaning Kits (CCK) with conductive joint compound are available from PolyPhaser.