

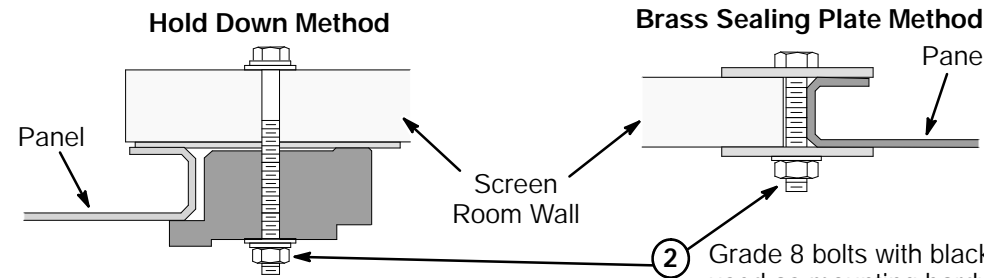
**"Waiting for PP1- BOM in order to verify any part numbers contained on this document!" (meanwhile see DRAFTING)**

## INSTALLATION STEPS SUMMARY

- A - Remove Blank Panel/Prepare Screen Room Opening Surface
- B - Install Penetration Panel
- C - Connect Cables to Penetration Panel
- D - Install Penetration Panel Stand- Off Hardware
- E - Install Penetration Panel Covers

### - A - REMOVE BLANK PANEL/PREPARE SCREEN ROOM OPENING SURFACE

- 1 If still in place, remove vendor supplied blank panel. Save mounting hardware of either method shown below for installation of Penetration Panel.

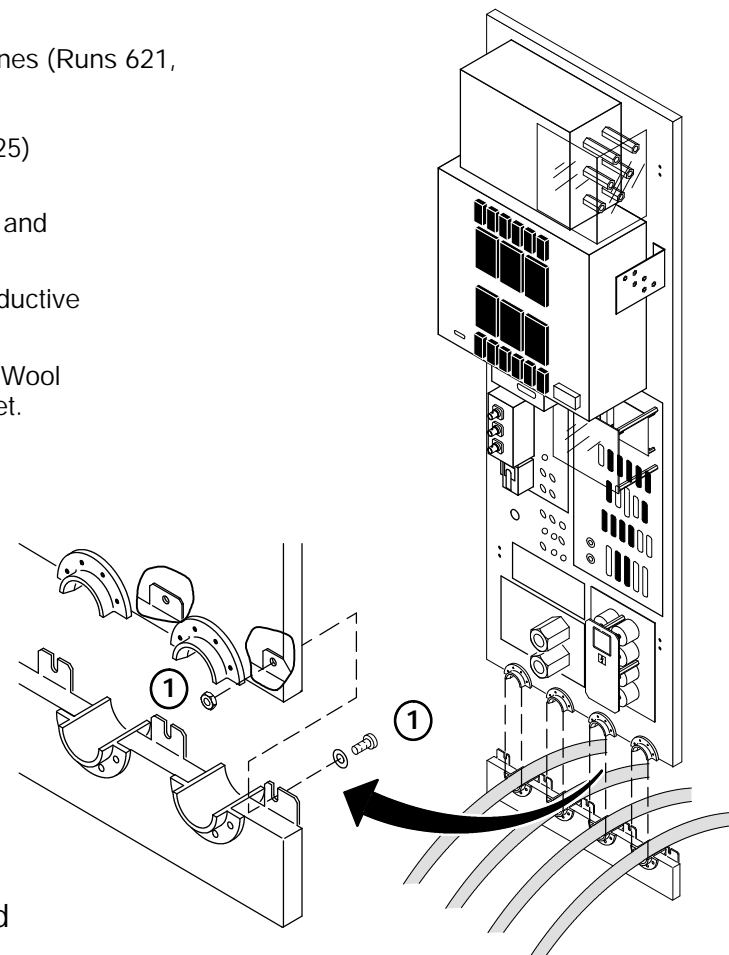


- 2 Grade 8 bolts with black oxide coating should be used as mounting hardware. Tighten to torque of 20 lb- ft (1.5 to 2 turns after lock washer flattens).

- 3 To insure good conductivity, use a fine sandpaper or scouring pad to clean surface of screen room wall which will be in contact with Penetration Panel. **Do not sand surface of Penetration Panel as it is coated.**

### - B - INSTALL PENETRATION PANEL

- 1 Assemble Penetration Panel around helium lines (Runs 621, 622, 625, and 626) using:
  - (5) #10- 32 Nylock Lock Nuts (46- 208937P6)
  - (5) 0.2 ID, 0.5 OD Flat Washers (1000904P425)
  - (5) #10- 32 x 3/8 Screws (46- 208560P82)
- 2 Install Penetration Panel using same method and hardware for mounting of blank panel above.
- 3 Seal all joints with copper foil tape with a conductive adhesive (3M #1181) for RF- tight integrity.
- 4 Fill inside of J60 and J61 guides with Bronze Wool (46- 318068P1) that was supplied with magnet.



**Note:** Fastening hardware is furnished with Penetration Panel

### - C - CONNECT CABLES TO PENETRATION PANEL

- 1 Connect Cables to Penetration Panel as designated.

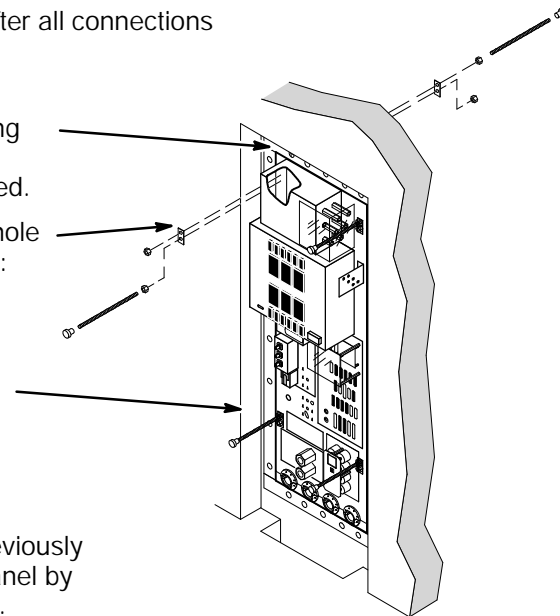
**Note:** Refer to Overview: Section 2 - System Cables for Cable Map and Run descriptions and designator information located at end of each cable.

### - D - INSTALL PENETRATION PANEL STAND- OFF HARDWARE

**Note:** The Penetration Panel Floor plate that is supplied with the cover kit is to be installed prior to routing and connecting cables to Penetration Panel. Refer to Installation Drawing furnished with the Covert Kit.

**Note:** The Penetration Panel Cover can be installed only after all connections and System installation has been completed.

- 1 Verify that cover will enclose finished wall opening. The distance from the top of Penetration Panel to wall opening must be less than 4- 1/2 inches (114mm). If not, new mounting stud holes in Penetration Panel may be required.
- 2 Place (8) Reinforcing Plates (46- 301211P1) over each hole pair on both sides of Penetration Panel and attach using:
  - (16) 5/16- 18 x 9/16 Brass Nut (46- 208935P9)
  - (8) 5/16- 18 x 18 inch Threaded Rod (46- 301213P2)
  - (8) 5/16- 18 x 1 inch Barrel Nut (46- 301212P1)
- 3 Measure distance from face of Pen Panel to equipment room wall surface. Add six inches (152mm) to obtain length threaded rod should extend from panel.
- 4 Repeat step 3 procedure for exam room cover.
- 5 Adjust threaded rods with attached barrel nuts to the previously calculated dimensions from steps 3 and 4. Secure to panel by tightening brass nuts on both sides of Penetration Panel.



### - E - INSTALL PENETRATION PANEL COVERS

- 1 Remove all barrel nuts.
- 2 In the Magnet room, temporarily install Top (46- 306936P1) and Bottom (46- 306964P1) Cover assembly on threaded rods and secure with four barrel nuts.
- 3 Adjust position of bottom cover section and mark two lower fastener holes.
- 4 Remove covers and drill hole in lower cover at each mark.
- 5 Attach top and bottom covers with furnished 10- 32 nuts and screws.
- 6 Repeat procedure for Equipment room cover.
- 7 After all installation procedures are completed in Magnet and Equipment rooms, install assembled covers on threaded rods and secure with four barrel nuts.

