

Remote Pre-amp Installation Kit
AID P/N705147 Rev. A

Note: When working with the pre-amplifier assembly it is important that electrostatic discharge (ESD) prevention techniques be observed. Before touching the pre-amp assembly, be sure to ground yourself to dissipate static charges.

Note: The pre-amp assembly is a very delicate and sensitive device. It is important to keep it as clean as possible. Wash and dry your hands thoroughly before working with it. Take care to touch the pre-amp board as little as possible. Take extra care to avoid touching the three air-mounted field inputs. Oils from your fingers on the air-mounts or their components can cause performance degradation.

Installation Procedure

1. Remove the covers from the remote pre-amp chassis and the remote pre-amp strain relief.
2. Install the ICX series ion chamber as required and route the remote pre-amp cables to the pre-amp chassis mounting location.
3. Connect the shield grounds of the remote pre-amp cables to the 6-32 stud on the remote pre-amp strain relief chassis using the 6-32 nut provided.
4. Route the conductor wires of the remote pre-amp cables through the slot between the remote pre-amp strain relief and the remote pre-amp chassis.
5. Note that the conductor wires are marked with tags that match the mating wires inside the pre-amp assembly. Connect the wires as follows.

Tag	Remote Cable Wire Color	Pre-amp Assembly Wire Color	Description
A	Blue and White	White	Field A Output
B	Red and Black	Red	Field B Output
C	Green and Orange	Green	Field C Output
HV	White Coaxial	Blue	Bias Voltage

6. Secure the remote pre-amp cables to the remote pre-amp strain relief chassis using the two cable ties provided.
7. Reinstall the covers to the remote pre-amp chassis and the remote pre-amp strain relief.
8. After mounting the remote pre-amp assembly as required, calibrate the pre-amp according to the calibration instructions included with the ion chamber.

Additional cabling will be required to run from the pre-amp to the x-ray generator AEC. The following table lists cables that are available from AID. These cables are available in 45, 65 and 85 foot lengths. Specify cable length as a suffix to the cable part number (-XX). For example, “75035-45” is a 45-foot length of the standard 9-pin sub-d cable.

AID Part Number	Description	Ion Chamber Connector	AEC Connector
75015-XX	Philips compatible	Female 9-pin sub-d	Male 14-pin AMP M Series (201355-1)
75030-XX	GE compatible (MSI, MST & DXS generators)	Female 9-pin sub-d	Male 15-pin AMP Mate-N-Lock (1-480324-0)
75035-XX	Standard ICX cable	Female 9-pin sub-d	Male 9-pin sub-d
75043-XX	RMS/Fischer compatible	Female 9-pin sub-d	Male 14-pin AMP M Series (201355-1)
75045-XX	GE compatible	Female 9-pin sub-d	Male 14-pin AMP M Series (201355-1)
75047-XX	Picker compatible	Female 9-pin sub-d	Female 15-pin Molex (1625-15P)
75048-XX	GE Compatible (MPX generators)	Female 9-pin sub-d	Female 15-pin AMP M Series (205606-3)
75049-XX	ICX cable with flying leads	Female 9-pin sub-d	Supplied by installer
75054-XX	Picker Compatible	Female 9-pin sub-d	Male 3-pin Molex (03-06-1032) And Male 9-pin AMP (1-640511-0)
75059-45	Bennett Compatible (45 foot length only)	Female 9-pin sub-d	Female 11-pin in-line
75061-XX	ICX cable with fork lugs	Female 9-pin sub-d	#6 fork lugs
75062-XX	ICX interconnection cable	Female 9-pin sub-d	Male 9-pin sub-d with fixed mounting hardware

Figure 1

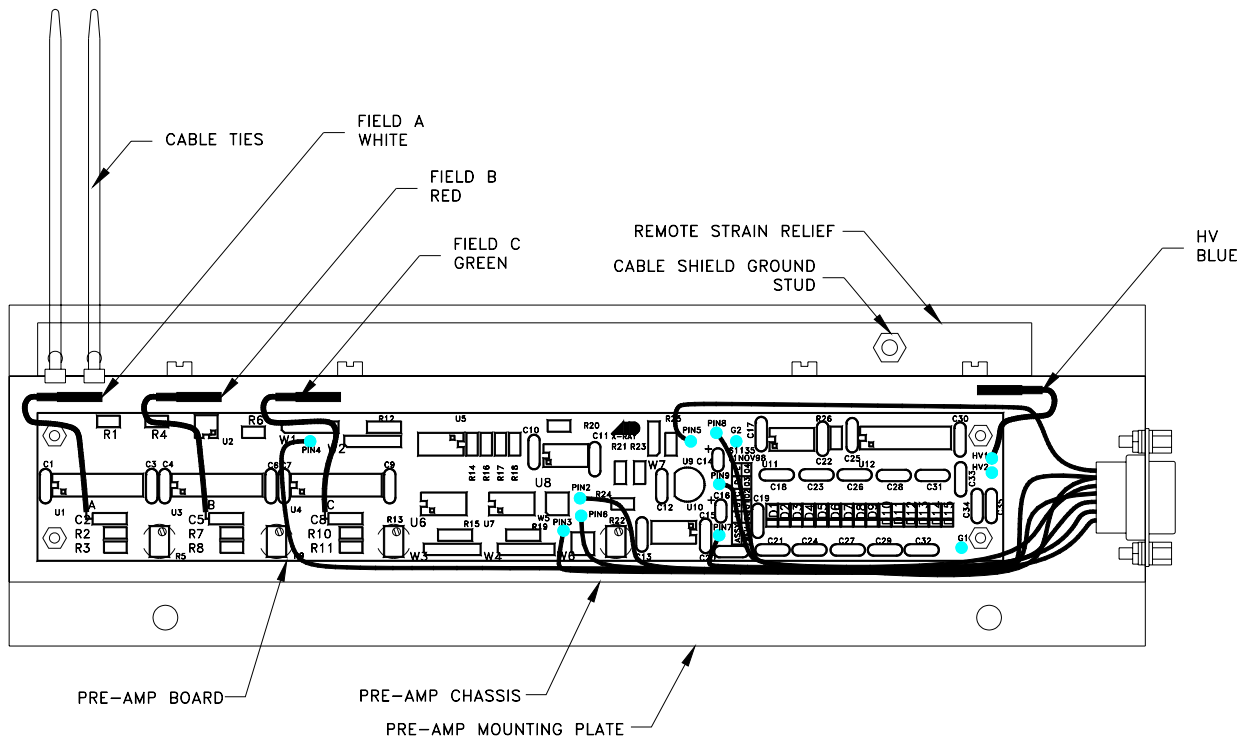
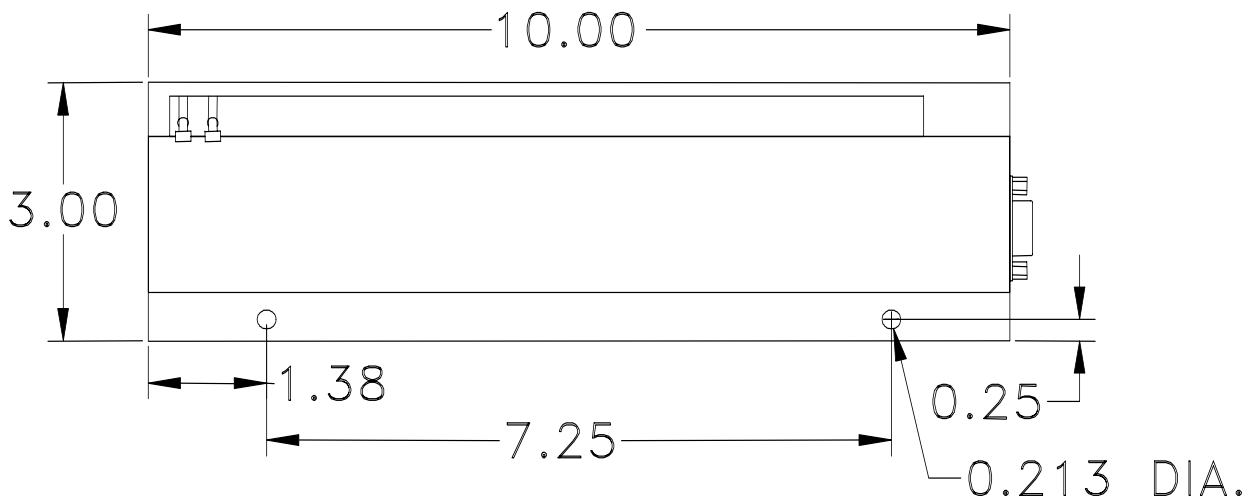


Figure 2



Height of pre-amp chassis plus mounting plate is 0.60 inches.