

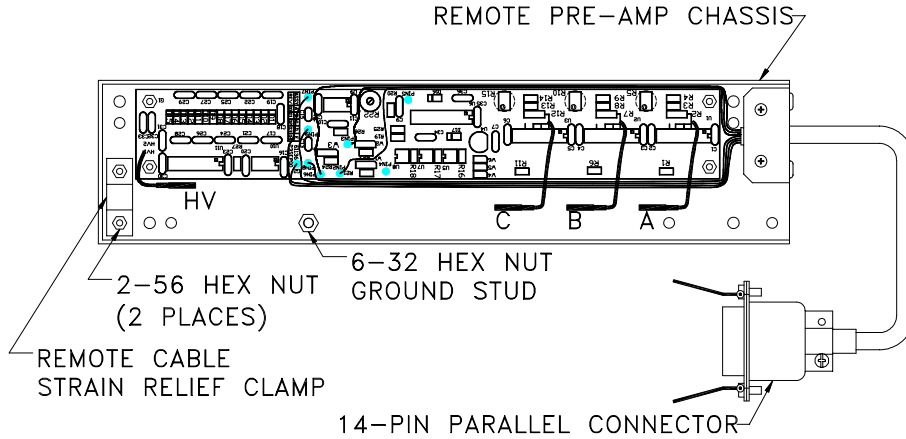
Toshiba Compatible Removeable Remote Pre-amp Installation Kit  
AID P/N 705186 Rev. A

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

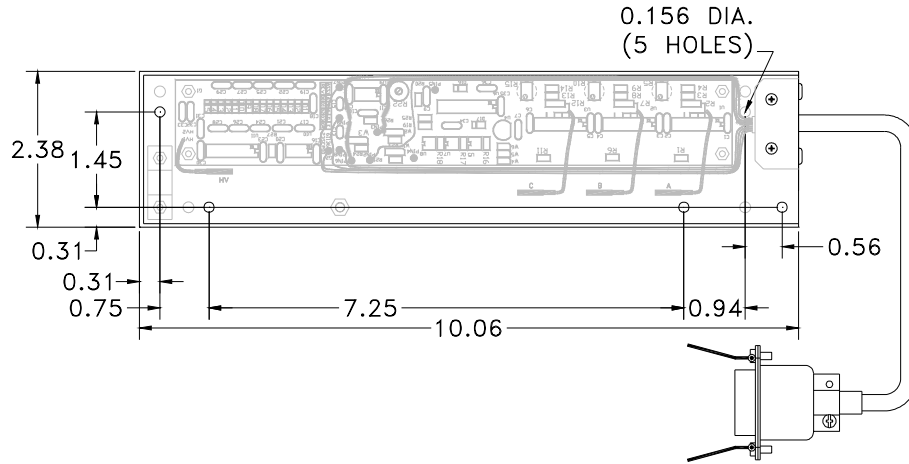
1. Install the ICX series ion chamber as required and route the remote pre-amp cables to the pre-amp chassis mounting location.
2. Remove the cover from the remote pre-amp chassis by removing the four (4) 2-56 X 3/16 phillips flat head screws.
3. Route the remote pre-amp cables through the strain relief in the remote pre-amp chassis and secure the strain relief using the two (2) 2-56 hex nuts.



4. Connect the shield grounds of the remote pre-amp cables to the 6-32 stud on the remote pre-amp chassis using the 6-32 hex nut provided.
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	Description
A	Blue and White	Field A Output
B	Red and Black	Field B Output
C	Green and Orange	Field C Output
HV	White Coaxial	Bias Voltage

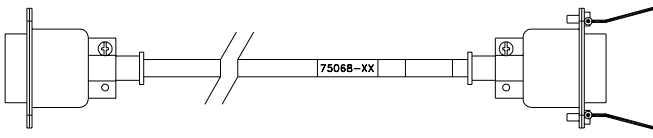
- Mount the remote pre-amp assembly as required.



Height of pre-amp chassis is 0.52 inches.

- Reinstall the cover to the remote pre-amp chassis using the four (4) 2-56 X 3/16 phillips flat head screws removed in Step 2.
- 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 the pin-out of the Toshiba compatible ion chamber cable, AID P/N 75068-XX, that is available in 45, 65 and 85 foot lengths. Specify cable length as a suffix to the cable part number (-XX).

75068-XX "-XX" = CABLE LENGTH IN FEET			
ION CHAMBER CONNECTOR	ION CHAMBER CABLE TOSHIBA COMPATIBLE		AEC CONNECTOR
MALE 14-PIN CENTRONICS PARALLEL			FEMALE 14-PIN CENTRONICS PARALLEL
PIN NUMBER	WIRE COLOR	FUNCTION	PIN NUMBER
1,3,5,7,8,9,11&13	NONE	NO CONNECTION	1,3,5,7,8,9,11&13
2	BROWN	-15VDC	2
4	BLACK	GROUND	4
6	CLEAR	SHIELD	N/C
10	RED	+15VDC	6
12	VIOLET	FIELD 3 SIGNAL	10
14	WHITE	FIELD 2 SIGNAL	12
	ORANGE	FIELD 1 SIGNAL	14