

Single Spot Ionization Chamber
60940X Preamplifier Board

Applicable Models:

ICX156	ICX158	ICXI78
ICXI63	ICXI72	ICX186
ICXI73	ICXI73	

Chamber Gain Adjust - Use the gain adjust shown in Figure A below to match the spot film chamber sensitivity with that of the other stationary chambers connected to the system. Note that the gain adjust is a multi-turn potentiometer. Use a suitable phantom, make exposures and adjust the gain for proper density.

Factory Adjustments - The following are factory adjustments, to be field adjusted only in the event of problem in the above procedure:

Offset Adjustments - Monitor the output on pin 5 of the chamber connector with a scope. Adjust the offset pot to obtain 0 VDC +/- 1 mV at the chamber output.

Drift Adjustments - With a scope, monitor the output of pin 5. Use a jumper to remove the reset from the field while making adjustments. Connect it from ground pin 9 to the reset line pin 4. Use Figure A of this instruction for the location of the drift pot. When observing the trace on the scope it may drift up or down from zero. Keep in mind that the important point of this adjustment is to minimize the rate of drift. This can best be accomplished by resetting, removing the jumper, and then reconnecting it and observing the chamber in the drift rate.

Pin Outs of Connector

1 -no connection	6 - no connection
2 -no connection	7 - -12VDC
3 -no connection	8 - +12VDC
4 -Reset	9 - Ground
5 -Output	

Board Layout

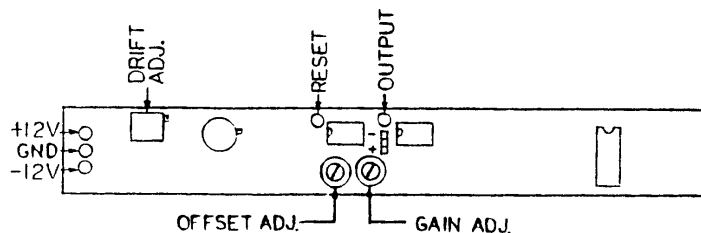


Figure A