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INSTRUCTIONS

MODEL AVX-S3D BIAS INSERTION UNIT

S.N.: 5930-S

WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

Fig. 1

BIAS INSERTION UNIT TEST ARRANGEMENT

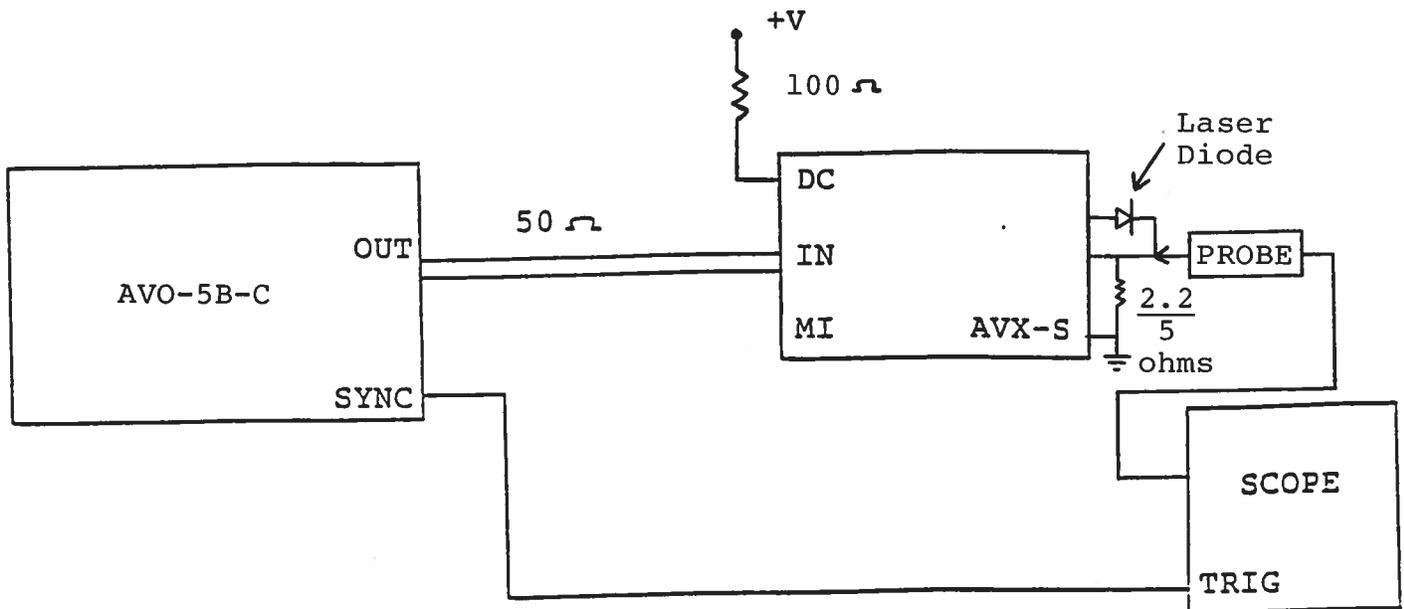
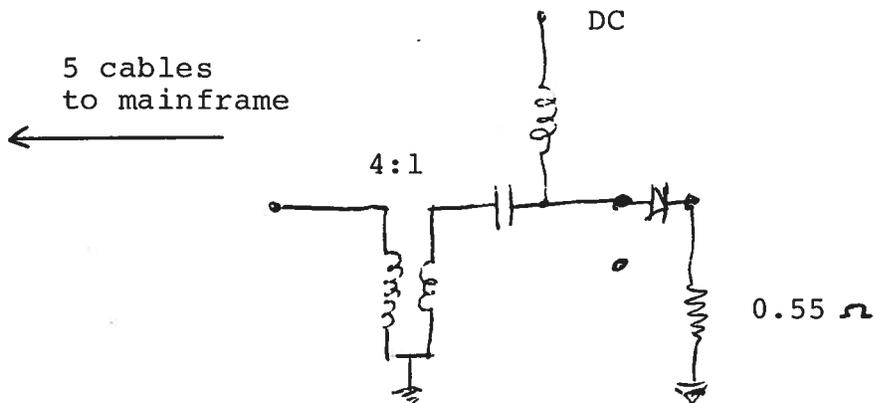
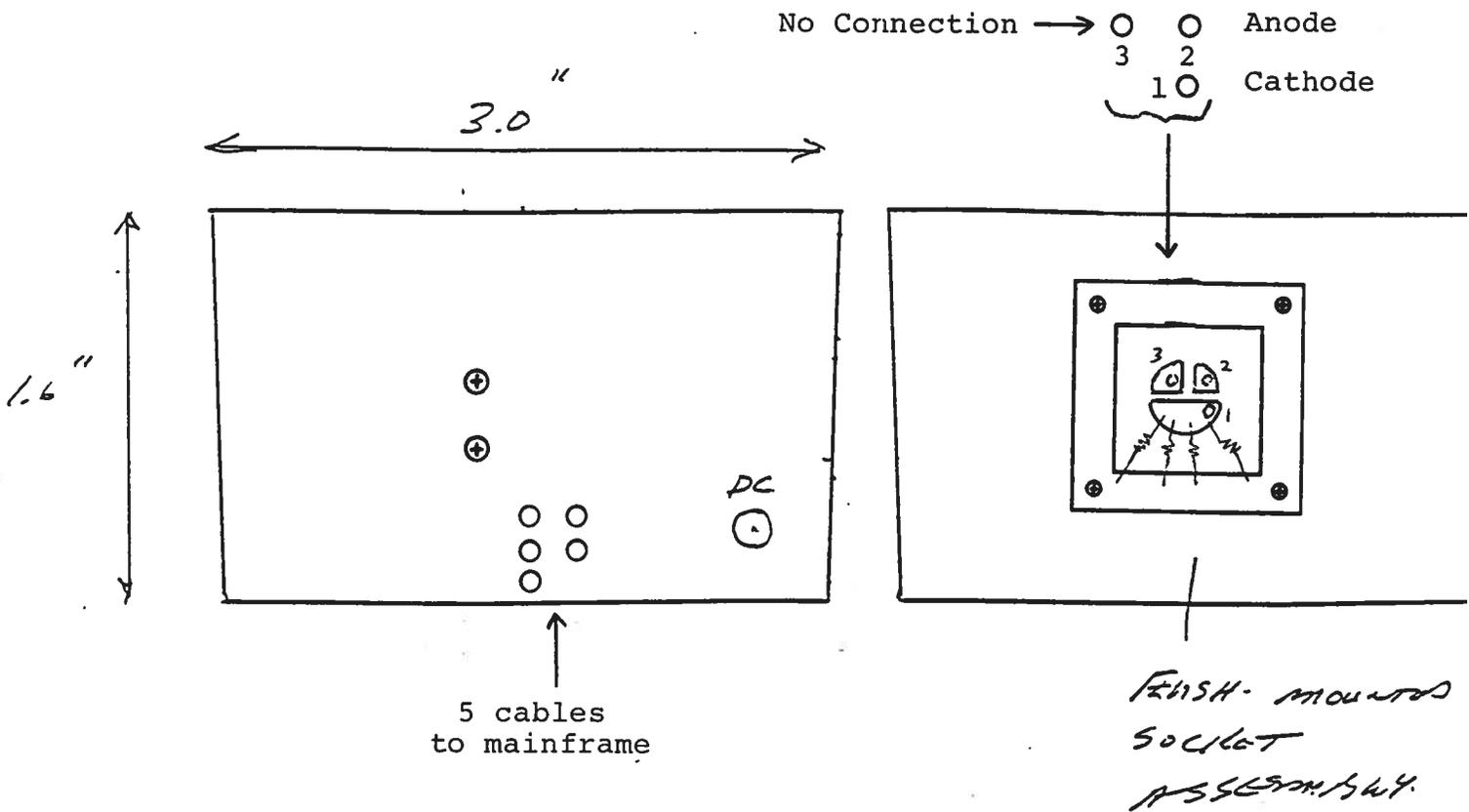


Fig. 2

FUNCTIONAL EQUIVALENT CIRCUIT





PAPER TUBE

Notes:

- 1) The anode is inserted into PIN 2 while the cathode lead is inserted into PIN 1. There is no connection to PIN 3.
- 2) The DC terminal of the bias insertion must either be shorted to ground (if a DC offset is not required) or a DC power supply must be applied. The laser diode will not function if the DC terminal is open circuited. Note that the DC current must not exceed ± 100 mA. Place a 100Ω resistor in series with a lab power supply (to limit current to 100 mA).
- 3) The diode current waveform may be monitored by placing a scope probe on PIN 1 (i.e. at the end of the $\frac{2.2}{4}$ ohm resistor. Note that if the diode resistance limits the current to less than 60 amperes, then the 0.55Ω series resistance may be reduced further.

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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author details the various methods used to collect and analyze the data. This includes both manual and automated processes. The goal is to ensure that the information is both reliable and up-to-date.

The final part of the document provides a summary of the findings and offers recommendations for future work. It suggests that regular audits and updates to the data collection process are essential for maintaining the integrity of the information.