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32-100 Multiplier Drop Out

The 32-100 digital electron multiplier supply can drop out during long acquisitions. This may be due to cross talk on the digital input. To alleviate the problem, perform the following procedure:

Refer to the 32-100 schematic sheet 3 of 5. U10 is a 7406 which clears the data transceivers. If this pin picks up some spurious noise, it can clear the transceivers and set the DAC out put to zero volts, which in turn shuts down the multiplier voltage supply.

To prevent this from happening, add a .1uf capacitor (15 volts DC, plus or minus 5 volts) to pin 3 of U10 and ground.

Refer servicing to qualified personnel.