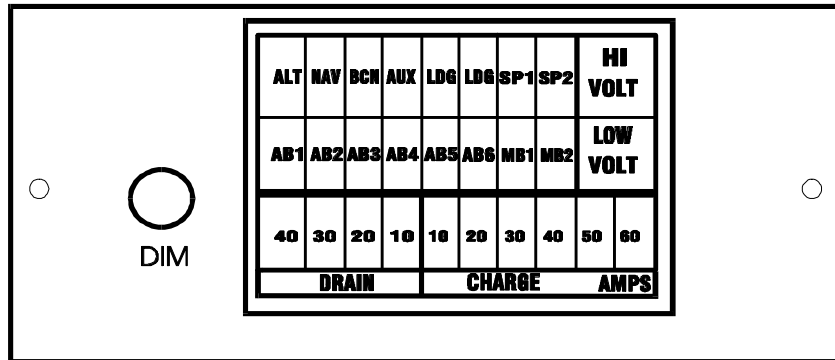


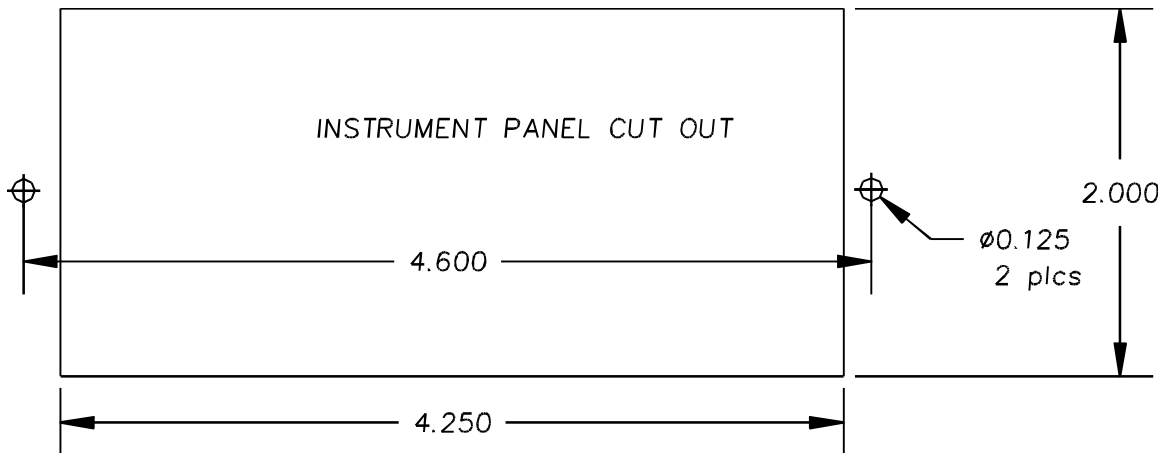
Exp  **BUS**
DC Load Center
INDICATOR MODULE



Installation and use

Operation of the Indicator Board

The indicator board indicators will illuminate whenever a circuit is tripped. In normal operation, the indicator will be dark, except for the ammeter. When the avionics master switch is OFF, AB1-AB6 indicators will be illuminated, indicating that there is no power on the avionics bus. When the bus is on, these lights should go off. If an indicator should illuminate, it will go off immediately when the circuit is shut down. If an indicator keeps coming on, the circuit is probably overloaded and needs to be corrected. With the avionics bus off, the dimmer control can be used to adjust the Indicator brightness as desired. This control will also adjust up to 3 amps of panel lighting connected to the EXP Bus INST LTS terminal.



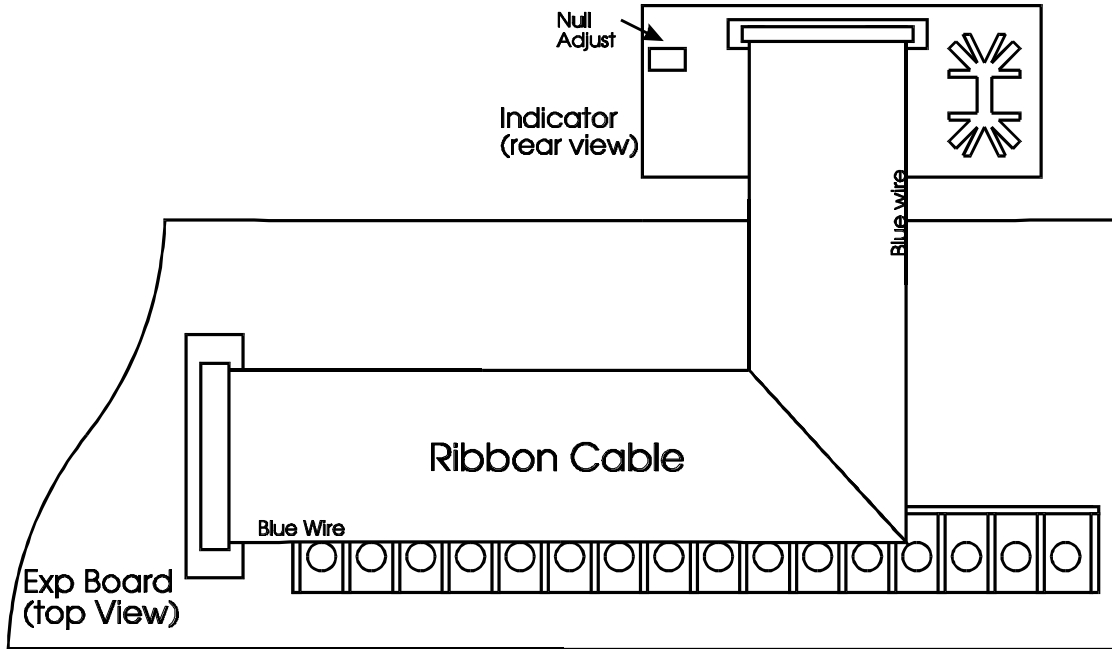
Exp Indicator panel cutout dimensions

Installation:

Cut a 4.25 wide by 2.0 inch tall rectangular hole in the instrument panel in some location. You may wish to install 2 blind nuts behind the panel, suitable for #4-40 hardware as shown. Mount the indicator module with the mounting bezel from the front of the panel, aligning the two holes in the panel with the two holes in the indicator. Securely bolt the unit into the panel. Insure that no metal aircraft parts are touching or chafing on the large aluminum heatsink that extends off the back of the indicator module. Shorting this heatsink to ground will trip the instrument lights current limiter on the EXP PC board.

Electrical connections:

Connect the supplied 26 pin ribbon cable from the EXP-Indicator board to the EXP-BUS board. Be very careful to observe cable polarity when connecting the cable. The cable supplied has a blue wire along one side of the cable. With the master switch off, connect the ribbon cable so the blue wire runs from the pin one marker (little triangle) on the indicator board to the pin 1 marker on the EXP BUS connector (nearest terminal “AV7”). For maximum vibration resistance, lock the connector latches, and be sure that the ribbon cable runs (down) across the indicator PCB, then connects to the EXP BUS board by running over the AV7 terminal on the terminal strip.



NULL adjustment

If your EXP and indicator were paired at our factory, there will be no need to NULL the ammeter, however if the indicator board is purchased after the EXP board, the current meter may need to be nulled for your installation. On the back of the small PC board there is an adjustment potentiometer labeled “NULL”. With the power on, but all accessories off, the NULL pot should be slowly adjusted with a small screwdriver until the ammeter reads in the first green LED (0-10amps charging). The meter is fairly slow to respond, so turn the adjustment screw slowly. If you feel a clicking as you are turning the control, you have gone too far and you should reverse your direction.