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Mirror Controller:

The mirror controller electronics are housed in a remote enclosure connected to the FSM via a 6 foot cable. Mirror commands are input to the controller through a 25 socket D sub-miniature connector. The commands are differential signals representing the x and y mirror positions, scaled to the +/- 10 volt range. For example, the X- command can be grounded and the X+ command can go from +10volts to -10volts. The input impedance of the command signals is 10K ohms. Monitor signals are provided for the actual mirror positions, error signals (feedback error between commanded position and actual position). The PID gain of the controller may be set from the controller front panel potentiometers (See fig. 1)

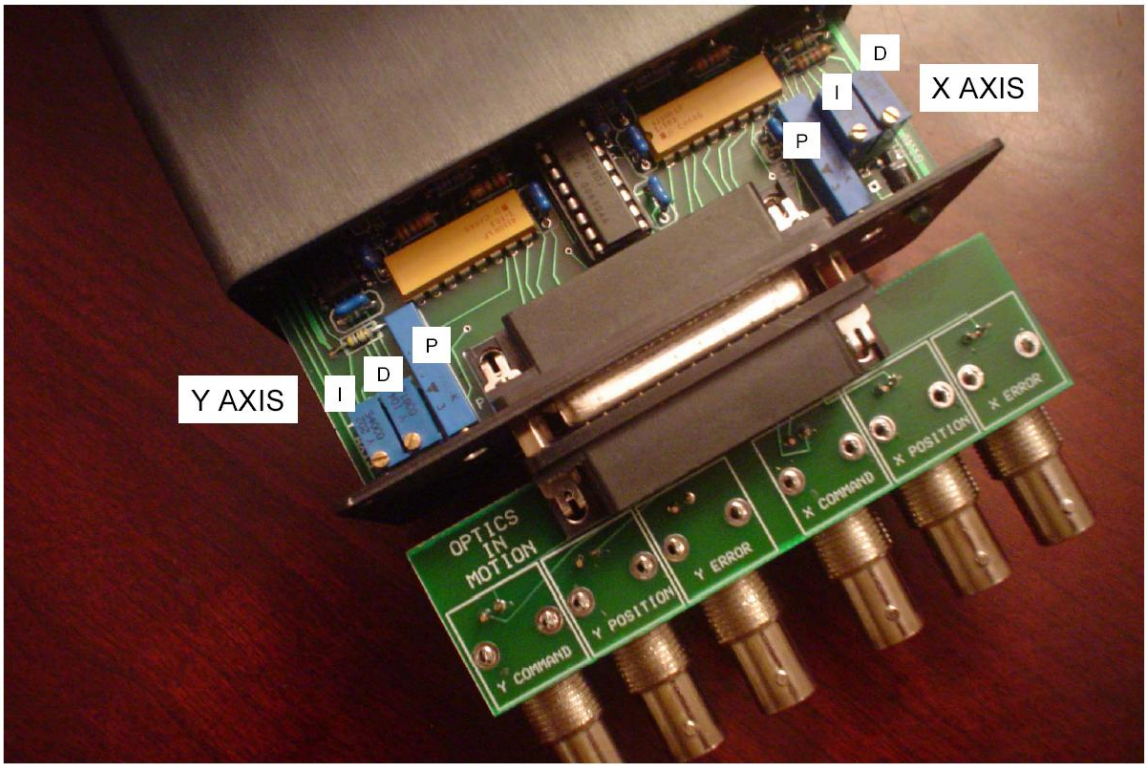


Figure 1: Adjustable PID

The potentiometers that are accessible from the controller front panel set the mirror proportional gain (P), CCW is increasing gain. The other adjustment potentiometers are mounted to the controller board, to access these pots the front 4 cover screws must be removed. The photo in figure 1 shows the front panel slid forward to allow access to the integral (I) and derivative (D) gain potentiometers (CCW to increase gain on both these pots). The controller card is attached to another card via a ribbon cable which is hidden inside the controller box. The mirror can be driven while this card is pulled forward, allowing the user to optimize the PID values for a given step requirement while

monitoring the position and error signals on a scope. Also shown in the figure is our 25 pin D to BNC adapter that can be used for non OEM operation.

Mirror Power Supply:

The controller is powered by an external +/-15 volt power supply capable of 1.5 amps of current. The external power supply is an air cooled tabletop supply which plug directly into a 110 or 220 volt wall socket.



Figure 2: Controller Front View

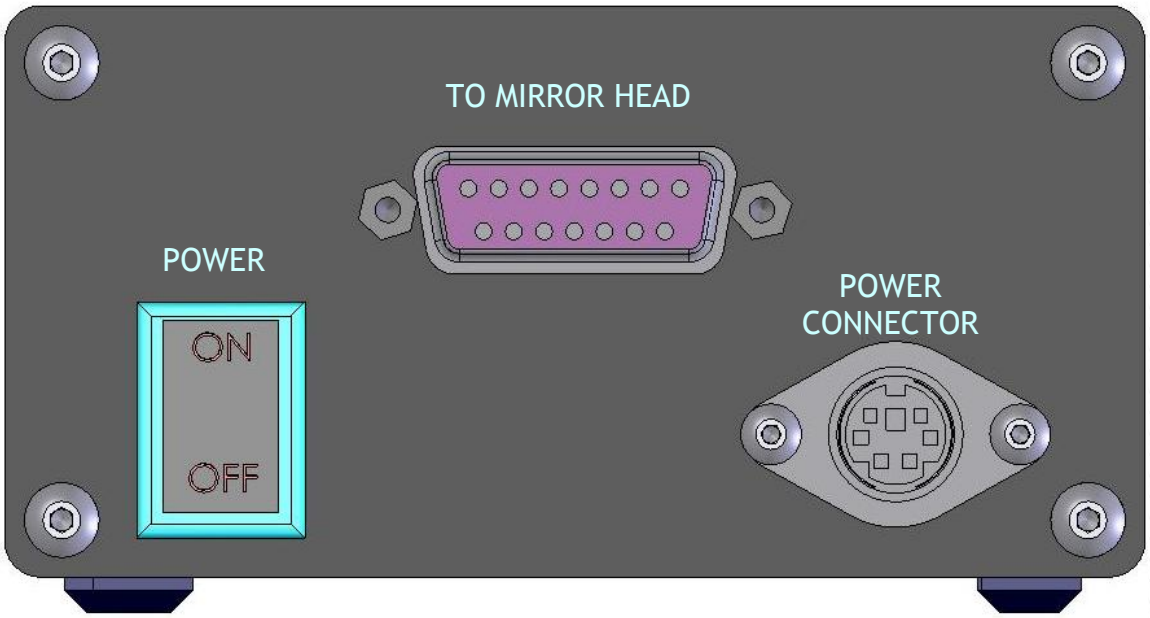


Figure 3: Controller Rear View

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