Film-Tech

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LaserLens Installation

1. Measure the DC output of the exciter supply to establish that the voltage is about 9 VDC. If not, adjust the supply for this voltage.
2. Strike the lamphouse igniter to verify there is no high voltage spikes getting into the exciter lamp supply. A high transient voltage can damage the Laser.
3. Make sure the exciter supply is not on the same circuit as the lamphouse
4. Ground the exciter supply to Earth.
5. Remove the old exciter lamp to make room for the LaserLens assembly. It is not necessary to remove the lamp electrical base.
6. Connect the LaserLens to the supply while observing the polarity of the Laser leads. Red to "Hot", black to "Ground".
7. Thread a pink noise film and set the azimuth and focus as you would on a conventional lens.
8. Reduce the slit-loss controls in the stereo processor to minimum. Connect a Real Time Analyzer to the output of each preamplifier and set the slit-loss for a flat response at 12 kHz. The lens should produce response out to 16 kHz in most installations, but attempting to force the response with excessive slit-loss correction can result in high frequency noise. Perform this procedure on both channels of the preamplifiers.
9. Change the test film to a Dolby Tone loop and reduce the Laser brightness with the control on the side of the Laser until you can achieve Dolby level on both preamp channels.

If the exciter lamp supply is old or not functioning properly you may wish to use the low cost supply offered by SMART. A conventional "wall pack" calculator type supply is used in conjunction with the SMART regulator board. The supply should have an output of 12 VDC at 100 mA.

The regulator board stabilizes the voltage to 9 VDC and provides further filtering of the small supply. The LaserLens draws only 75 mA of current and will run cool.

The Laser can be easily separated from the lens by loosening the small set screw on the side of Laser. This may be necessary in order to install the assembly in a soundhead. Be especially careful that when reassembling the two parts, that white lines line up properly.

The power supply board has a thick foam adhesive strip on the bottom that allows the small supply to be stuck to any surface near the LaserLens assembly. A convenient place is inside the exciter lamp compartment.

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