

Lower Current Setting for IR LEDs

Most IR LEDs were shipped with a current setting that is higher than necessary. Lowering the current will extend their life. We suggest the following procedure.

Carefully clean the lens in the ST-20 analog reader and align the LED with the pre-amp gain controls full down. You can use Dolby tone and an AC millivolt meter or an oscilloscope. After alignment turn both preamp channels to maximum gain then back off 5 turns or so. Adjust the output control (which is inside the EL-2 power supply) down to achieve Dolby level. If you are below Dolby level you would first recheck your alignment. If realignment does not have the desired effect cut the links on the back of the ST-20 analog reader that are marked JP3 and JP4 (these are the only links on the board). This will put the reader in high gain mode, and now you will be able to decrease the current and extend the life of the IR LED.

