

 <i>blue mountain avionics</i>	Product	EFIS/One	
	Release	2.01 and earlier	
	Subject	Manual Dimming Modification for Early-Style High Brightness display	
Engineering Note	Revised	11/19/2003	Greg Richter

Overview

The original EFIS/One displays contained an automatic dimming control and a separate remote keypad for EFIS/One operation. These original displays can be modified to use manual dimming. The rear plastic cover of the display must be removed first. Connecting a 20k potentiometer between Pins 1, 2 and 3 of J2 as shown in Figure 12, B will provide manual dimming of your display. Connect Pin 4 to Pin 3. If you are not comfortable making this type of electronic change, please get the help of an electronics engineer. Complete details of the display can be found at www.planar.com/support/pdf/om600.pdf

Below are the relevant sections from the Planar manual referenced above.

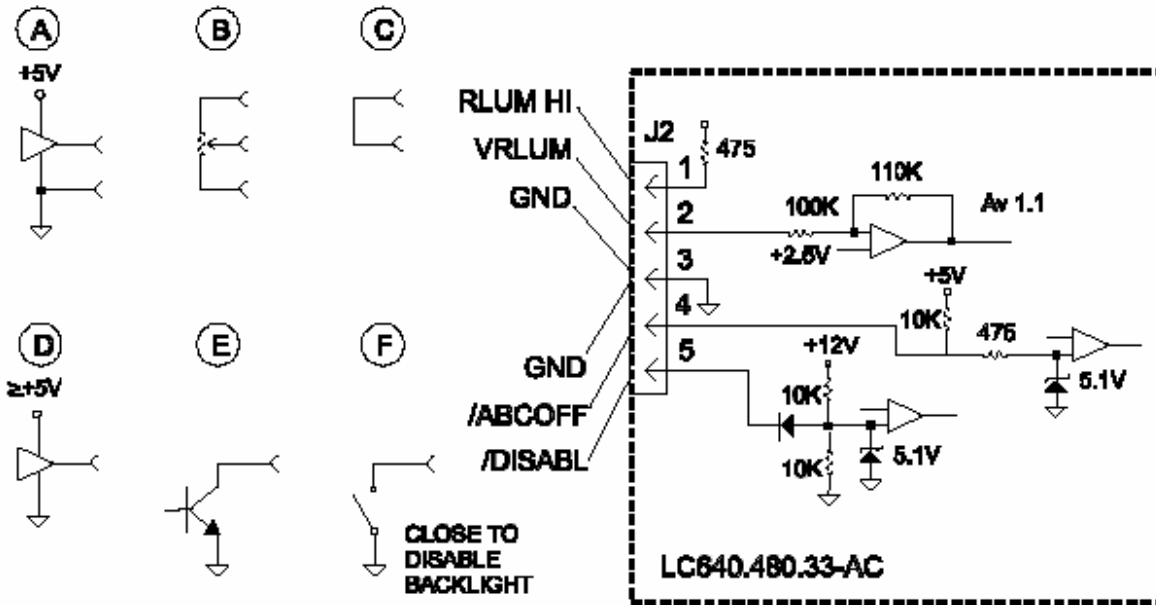
Dimming Connector (J2)

A dimming voltage or potentiometer, plus optional backlight mode and disable logic inputs are applied via J2, which is a polarized 5-pin inline, 2.5 mm pitch header, tin plated with a friction lock. The connector is equivalent to the Molex 5268-NA 'SPOX' series, part number 22-05-7055. The recommended mating connector is a Molex 5264-N series housing, part number 50-37-5053 and Molex 5263 series crimp pin, part number 08-70-1040. The recommended wire size is 22-28 AWG stranded. Refer to on page 19 for more information.

Table 14. Dimming Connector (J2) Pinouts.

Pin	Symbol	Function
1	RLUM HI	Pot high side voltage source output
2	VRLUM	Analog dimming input
3	GND	Signal ground (return)
4	/ABCOFF	Automatic brightness control mode disable input
5	/DISABL	Backlight disable input

Figure 12. Dimming Control Methods.



Display and location of J2

