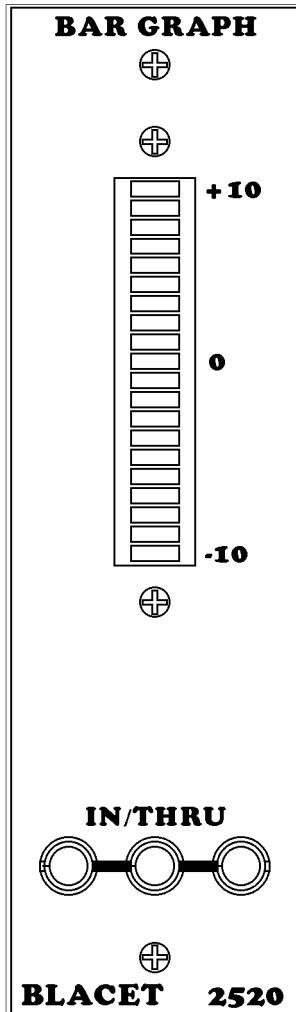


BAR GRAPH 2520

Blacet Research BG2520 Bar Graph Display Module

Blacet Research 15210 Orchard Rd Guerneville CA 95446
blacet@blacet.com <http://www.blacet.com> 707-869-9164
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You will need a fine tip soldering iron to assemble this board.

Intro and Using

The Blacet BG2520 provides a visual display of audio and CV waveforms on a 20 element LED display. The range is from -10V to +10V and from DC to audio frequencies.

For DC or slow control voltages, one LED bar will light. For audio, a range of LEDs will appear to light, showing the signal peaks.

Signals outside of the 10V ranges will light the upper or lower LED bars until the signal passes back into range.

Three "multitied" jacks allow a signal to be both monitored and sent to two other locations.

Use the BG as a visual aid to track control voltages from ADSRs, LFOs, BZs, etc. Use the module to monitor audio signal levels for best signal to noise ratio and to avoid distortion.

The extra bright display LEDs can also provide a nice mini light show when connected to voltages that jump around, like those from a sequencer!

To install your BG, attach the supplied power cable and connect the other end to your PS500 or PSCONN board.

Make sure that the power is off before doing this and double check the connector orientation on both ends!

Kit Assembly

Read through the instructions and get familiar with the parts before soldering any components!

Use 331 (washable) solder for all soldering except for the connections to the three "J1" jacks, where you should use 245 solder (no clean).

Note that all components go on the silkscreened side of the PCB except for the two LED modules (shown as dotted lines), which go on the solder side.

Note that the Parts List contains information on part markings ("XXX") and shows the PCB locations in the "Ref Des" column.

Start with the resistors, noting that all of them are "standing up". The body of the resistor goes into the silkscreened circle and the wire from the opposite end of the resistor goes into the hole pointed at by the line coming off the circle.

Insert **all** the resistors before soldering any of them to avoid possible errors.

Insert and solder the two caps, noting the orientation.

Insert and solder the three diodes, noting the orientation. (The smaller, glass diode is the 1N4148).

Insert and solder the resistor network, noting the orientation.

Insert and solder the trim pot, noting the orientation.

Insert and solder the power connector, noting the orientation.

The IC sockets will be installed later.