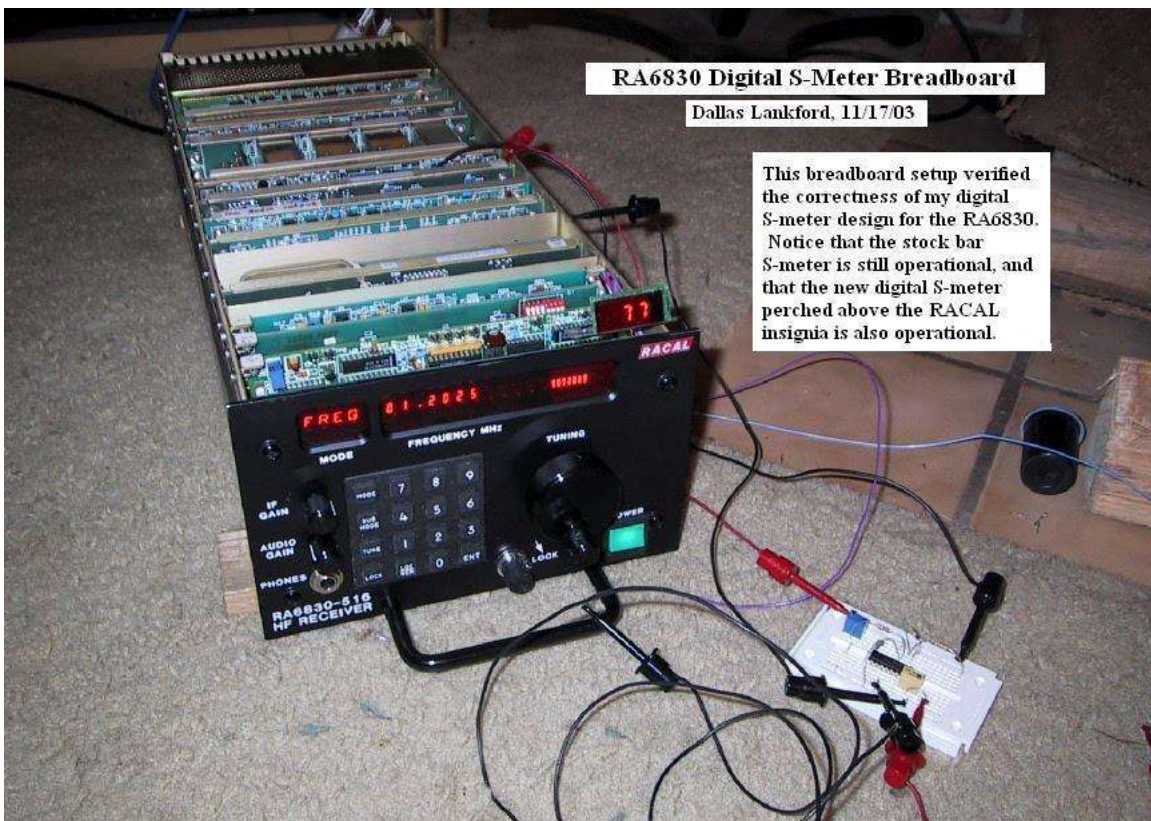


RA6830 Digital S-Meter Mod

Dallas Lankford, 11/23/03, rev. 12/14/05



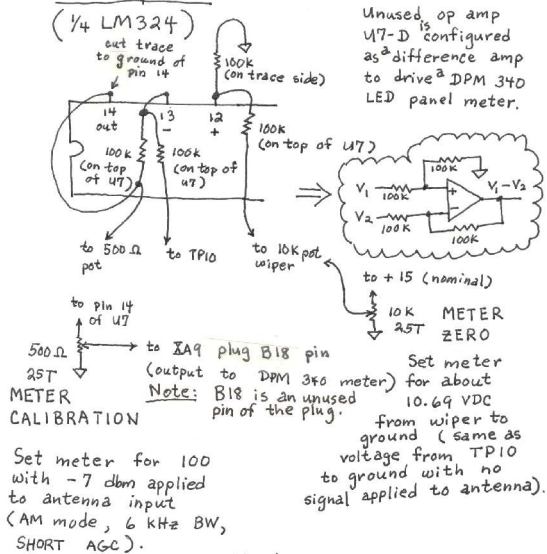
Lankford

RA6830 Digital S-Meter

Dallas Lankford 11/18/03

A9 IF/AGC Board

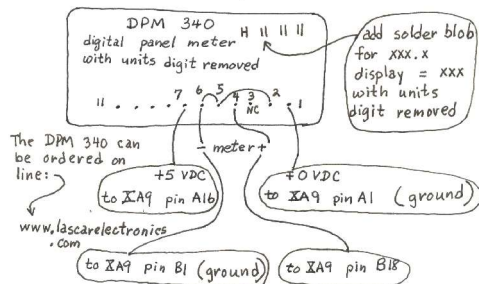
47 Top View



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LASCAR DPM 340

(1.57 x 0.79 x 0.62 red LED digital panel meter)



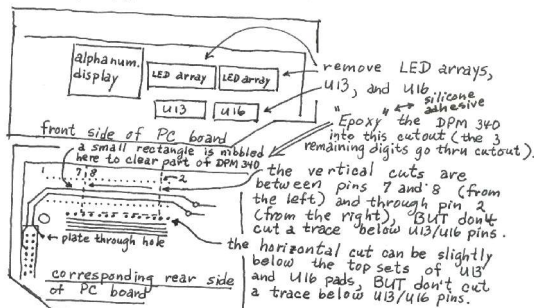
A tiny PC board was made for the tiny 10-pin (actually jack) socket supplied with the DPM340, and the wiring was brought out from the PC board. Thus the 6830 front panel remains plug-in. The units⁴ digit was removed (a) because it would have been partly obscured by the front panel cut out when installed in place of the original LED bar 5-meter, and (2) because it is constantly changing, and so displaying the $1/10$ dB digit is pointless, and (3) the $1/10$ dB digit won't quite zero.

The meter is configured for operation with input floating with respect to the power supply (for previous prototypes which failed to work). It can probably be reconfigured for operation with input referenced to the panel meter power supply.

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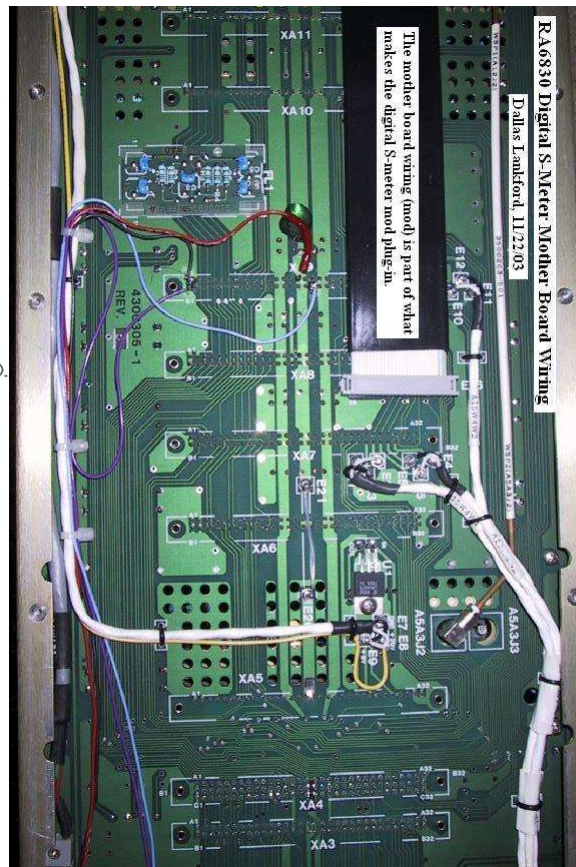
Front Panel

The front panel is completely removed from the 6830, and the front panel PC board is completely removed from the front panel.



You will notice that you do have to cut two traces between the LED array pins. I scraped varnish off the traces to the left of the cut, tinned them, and tack soldered small insulated wires to them, after first soldering the small insulated wires to the two plate-throughs on the right. Alternately, one of the cut traces goes (on the left) to a plate-through beside the connector (above). The other goes to the left pin 3rd from the top; so the jumpers can be brought to these two points

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RA6830 Digital S-Meter A9 IF/AGC Board Mod

Dallas Lankford, 11/19/03



