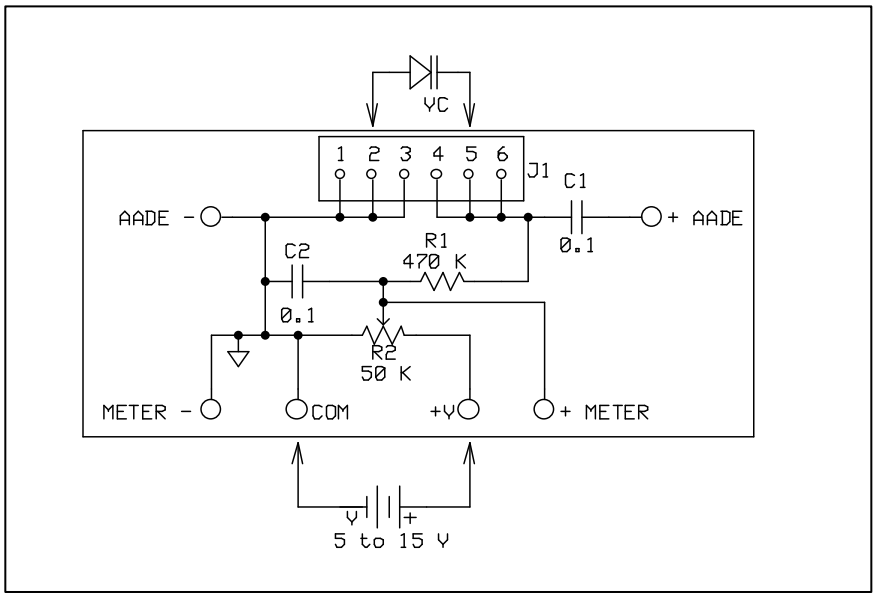

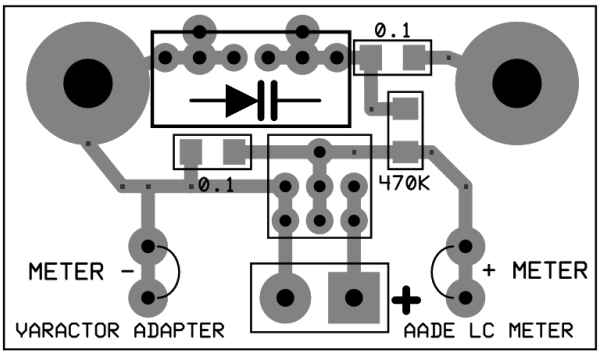

An adapter for measuring the capacitance of varactor diodes using the AADE digital LC meter, or equivalent instruments.

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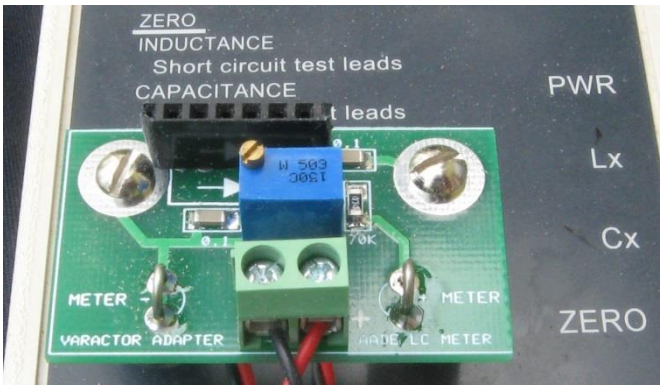

Bill of Materials:

R1	470 K 1206 SMT resistor, or 470 K, 1/4W, 5% carbon film resistor
C1, C2	0.1 µF 1206 SMT capacitor, or 0.1 µF ceramic capacitor with 0.1” lead spacing
R2	50 K multi-turn potentiometer
PCB	printed circuit board
Header	6 pin, single row, female header strip
Connector	2-pin screw terminal connector block
Banana plug	2 ea, banana plugs with screw mountings Mouser # [530-108-0753-1]

Connect the adapter to the LC meter. The mounting holes for banana plugs are spaced 1.25” on-center to match the original AADE meters.

Turn on the LC meter and zero and/or calibrate it according to the manufacturer’s instructions.

Connect the varactor diode to be tested to the header strip, connect a voltmeter to the meter terminals, and connect a fixed voltage source to the battery terminals.

While observing the voltmeter, set the desired level of reverse bias by adjusting R2.

Read the capacitance on the LC meter. Repeat for other values of reverse bias.