ELECTROLYTIC CAPACITOR TESTER

Here's a quick and simple way to check out all PARTS LIST FOR ELECTROLYTIC CAPACITOR those old electrolytic capacitors in your junkbox. Besides this simple 555 timer circuit, you will need a timepiece with a readout in seconds; the readout may be digital or just an ordinary sweep-second hand. Connect the capacitor to be tested to the binding posts, being careful to observe proper polarities. Now, press S2 and note how long LED 1 stays lit. Multiply the time by the appropriate scale factor to obtain the capacitance. For example, suppose you happen to be checking a very large filter capacitor, which would require that scale C. R5-9100-ohm resistor 100 uF/sec, be used. If the LED remains lit for 67 \$1-single-pole, 3-position rotary switch seconds, the capacitance is 67×100 or 6700 S2-normally open SPST pushbutton switch microfarads.

TESTER

- BP1, BP2-binding post
- C1, C3-0.1-uF capacitor, 35 VDC
- C2-100-uF electrolytic capacitor, 16 VDC
- IC1-555 timer
- LED1-light-emitting diode
- R1-100K-ohm resistor
- R2-560-ohm resistor
- R3-910K-ohm resistor
- R4-91K-ohm resistor

