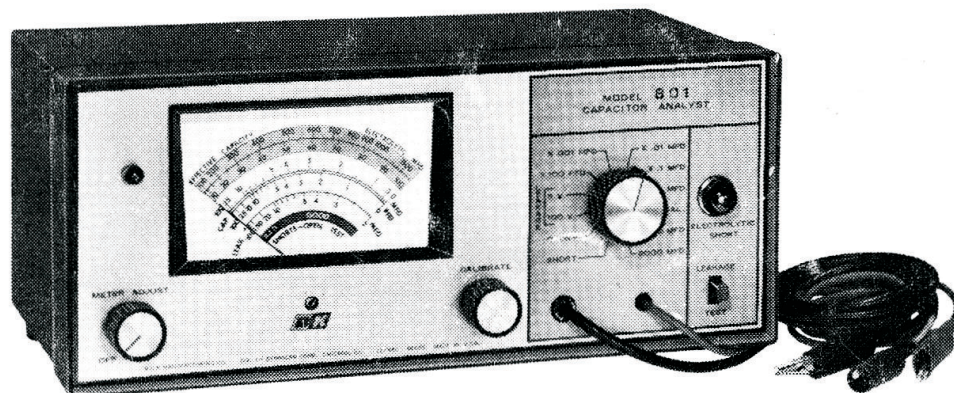


CAPACITY ANALYZER Model 801



INSTRUCTION MANUAL



B & K MANUFACTURING COMPANY

DIVISION OF DYNASCAN CORPORATION

1801 W. BELLE PLAINE AVENUE, CHICAGO 13, ILLINOIS

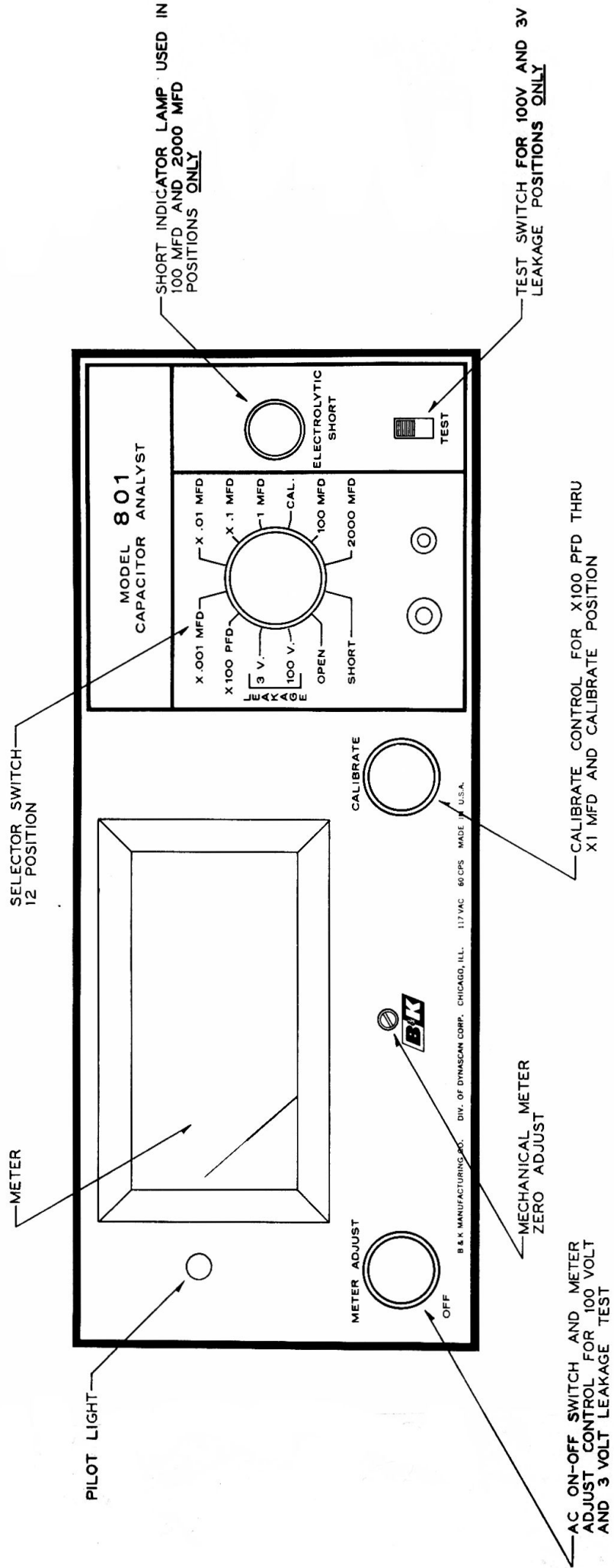


FIGURE 1. CONTROL LOCATIONS

Model 801

CAPACITY ANALYZER

OPERATING INSTRUCTIONS

NOTE: This unit was calibrated at the factory for 60 cycle AC operation only.

CAUTION: When the Selector switch is in the 100 volt leakage position and the Test switch is depressed, 100 volts DC appears on the RED test lead.

B & K MANUFACTURING COMPANY

DIVISION OF DYNASCAN CORPORATION

1801 West Belle Plaine Avenue

Chicago, Illinois 60613

MODEL 801 CAPACITATOR ANALYZER

What It Will Do:

1. Analyzes capacitors for defects which would affect the operation of TV sets, radios and other forms of electronic equipment.
2. Evaluates the life expectancy and energy storing capabilities of electrolytic capacitors up to 2000 mfd.
3. Accurately measures the value of other capacitors from 25 pfd to 100 mfd.
4. Tests capacitors "in circuit" or "out of circuit" for "shorts" and "opens".
5. Measures leakage of all capacitors (except electrolytics) under "in circuit" conditions.

MODEL 801

CONDENSED OPERATING INSTRUCTIONS

Read your instruction manual thoroughly before using these condensed operating instructions. If a test result is questionable, refer back to your instruction manual for more detailed information.

Disconnect all power from equipment to be checked.

TESTS 1, 2, 3 & 4 DO NOT APPLY TO ELECTROLYTICS.

CAUTION: This unit was factory calibrated for 60 cycle AC operation only. When the Selector switch is in the 100 volt leakage position and the test switch is depressed, 100 volts DC appears on the RED test lead.

1. **SHORT TEST:** (in or out of circuit) Rotate *selector* to SHORT—Connect BLUE & BLACK leads to capacitor—Read GOOD-BAD scale—See page 4 in manual.
2. **OPEN TEST:** (in or out of circuit) Rotate *selector* to OPEN—Connect BLUE & BLACK leads to capacitor, close to body—Read GOOD-BAD scale—See page 5 in manual.
3. **LEAKAGE TEST:** (out of circuit) Disconnect one capacitor lead if in circuit—Rotate *selector* to appropriate LEAKAGE position—Connect RED & BLUE leads to capacitor—Rotate *meter adjust* for Inf. (infinity) on leakage scale of meter—Depress test switch and read leakage resistance, in megohms, on leakage scale.

NOTE: for “in circuit” leakage measurements see pages 6, 7 & 8 in manual.

4. **CAPACITY VALUE TEST:** (out of circuit) Disconnect one capacitor lead if in circuit—Rotate *selector* to desired capacity range—Adjust *calibrate* control for full scale on meter (test leads must not be touching)—Connect BLUE & BLACK leads to capacitor, close to body—Read value on scale marked PFD or MFD—See page 9 in manual.
5. **ELECTROLYTIC CAPACITOR TEST:** (out of circuit) Disconnect one capacitor lead if in circuit—Rotate *selector* to CALIBRATE—Adjust *calibrate* control for full scale—Connect BLUE lead to positive side of capacitor—Connect BLACK lead to negative side—Rotate *selector* to desired range—Read value on blue meter scales.

If *electrolytic short* lamp glows brightly with no meter reading, capacitor is **SHORTED**. If the lamp does not glow and there is no meter reading, capacitor is **OPEN**. See pages 10 & 11 in manual.

SHORTS TEST

“IN CIRCUIT” MEASUREMENT

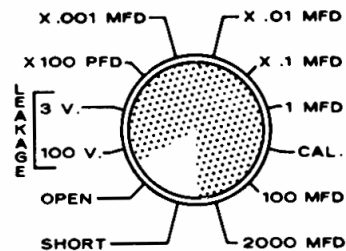
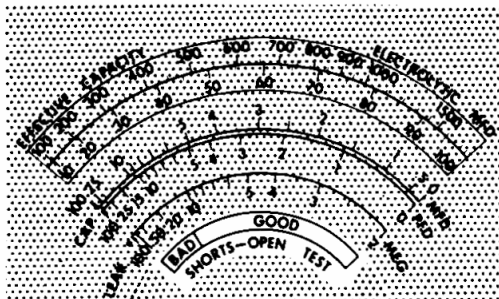
NOTE: This test is accurate for all normal television and electronic circuits. In the rare case where the capacitor being tested is shunted by less than 25 ohms (practically a short), the capacitor should be tested out of the circuit.

1. Remove all power from the circuit in which the capacitor to be tested is located.
2. Rotate the *Selector* switch to the SHORT position. See Figure 1.
3. Connect the BLUE and BLACK test leads to the leads of the capacitor.
4. Read GOOD-BAD scale. If the meter pointer is in the blue (good) area of the scale, the capacitor is not shorted. If the meter pointer is in the red (bad) area, the capacitor is shorted.

NOTE: A good capacitor may peg the meter to the right.

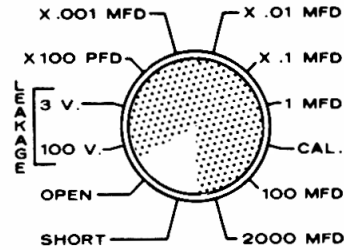
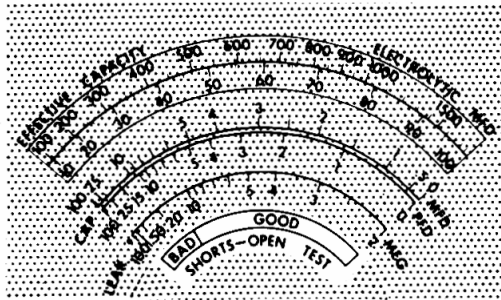
“OUT OF CIRCUIT” MEASUREMENT

Disconnect one lead of the suspected capacitor and perform the above steps.



SCALE & SELECTOR LOCATION FOR SHORTS TEST

OPENS TEST



SCALE & SELECTOR LOCATION FOR OPENS TEST

“IN CIRCUIT” MEASUREMENT

NOTE: This test is accurate for all normal television and electronic circuits with the following exceptions: If the capacitor is less than 25 pfd, the meter will show open (or bad)—If the shunting resistance is less than 50 ohms, the capacitor will show open. If either of these conditions exist the capacitor should be tested out of the circuit. DO NOT TEST CAPACITORS BELOW 25 pfd in circuit. THEY WILL TEST “BAD” EVEN THOUGH THEY MAY BE PERFECTLY GOOD.

1. Remove all power from the circuit in which the capacitor to be tested is located.
2. Rotate the *Selector* switch to the OPEN position.
3. Connect the BLUE and BLACK test leads to the leads of the capacitor. Be sure the test leads are connected securely and as close to the body of the capacitor as possible.

NOTE: The meter may peg to the right with the test leads unconnected or when a good capacitor is tested.

4. Read GOOD-BAD scale. If the meter pointer is in the red (bad) area, the capacitor is open. If the meter pointer is in the blue (good) area, the capacitor is not open.

“OUT OF CIRCUIT” MEASUREMENT

Disconnect one lead of the suspected capacitor and perform the above steps.

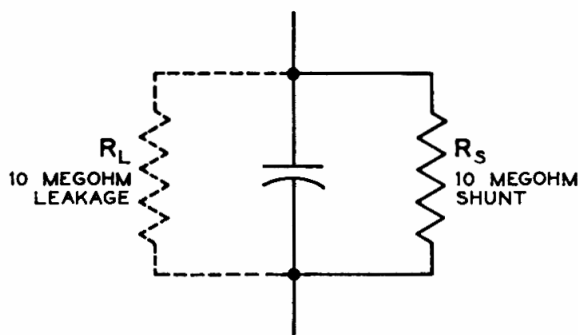
LEAKAGE TEST

NOTE: To test leakage of Electrolytics see page 10.

A capacitor that is neither shorted nor open will indicate some leakage resistance, but it is the amount of leakage that determines whether or not a capacitor should be replaced. Generally, a capacitor whose leakage has dropped below 100 megohms should be replaced as a safety precaution because it is deteriorating or has become marginal. If the leakage resistance is 20 to 25 megohms or less, the capacitor is defective and should be replaced. Ceramic capacitors are the exception to this rule because of their inherent low leakage resistance.

In using the Model 801 for “in circuit” leakage resistance measurements, a resistance should not be connected across the capacitor under test because this instrument cannot distinguish between leakage resistance in a capacitor and a shunting resistance connected externally across the capacitor.

EXAMPLE: If a capacitor shunted by a 10 meg resistor indicates a reading of 5 megohms on the meter, its actual leakage resistance is 10 megs because two 10 megohm resistors in parallel result in 5 megohms of total resistance. If a shunting resistor does exist, its effect must be treated as though the capacitor leakage resistance and shunting resistor R_s formed a parallel resistive circuit.



CAUTION: When the *Selector* switch is in the 100 VOLT LEAKAGE position and the *Test* switch is depressed, 100 Volts DC appears on the RED test lead. Proper safety precautions should be taken while performing this test. A discharge circuit has been incorporated into the 801 to discharge capacitors after they have been tested in this position.

LEAKAGE TEST

COUPLING CAPACITORS. See Figure 2.

1. Remove all power from the circuit in which the capacitor to be tested is located.
2. Connect the RED test lead to the input or plate side of the capacitor. Connect the BLACK test lead to Ground.
3. Rotate the *Selector* switch to 100 VOLT LEAKAGE if the voltage rating of capacitor is 100 volts or greater, or to 3 VOLT LEAKAGE if voltage rating of capacitor is between 3 volts and 100 volts (capacitors with less than 3 volt rating should not be tested).
4. Adjust *Meter Adjust* control (on front panel) until meter pointer is at INFINITY line (left side of meter).
5. Connect the BLUE test lead to the output or grid side of the capacitor.
6. Depress *Test* switch and read leakage resistance directly from meter in megohms on leakage scale.

NOTE: See Figure 2. When operating at 100 volts, if R2 is below 130K and/or R1 is less than 10K, meter accuracy will be slightly off. When operating at 3 volts, R2 should be several megohms to attain accurate results. The important concern here is whether enough leakage exists in a capacitor to cause trouble in a circuit and the Model 801 will always indicate this.

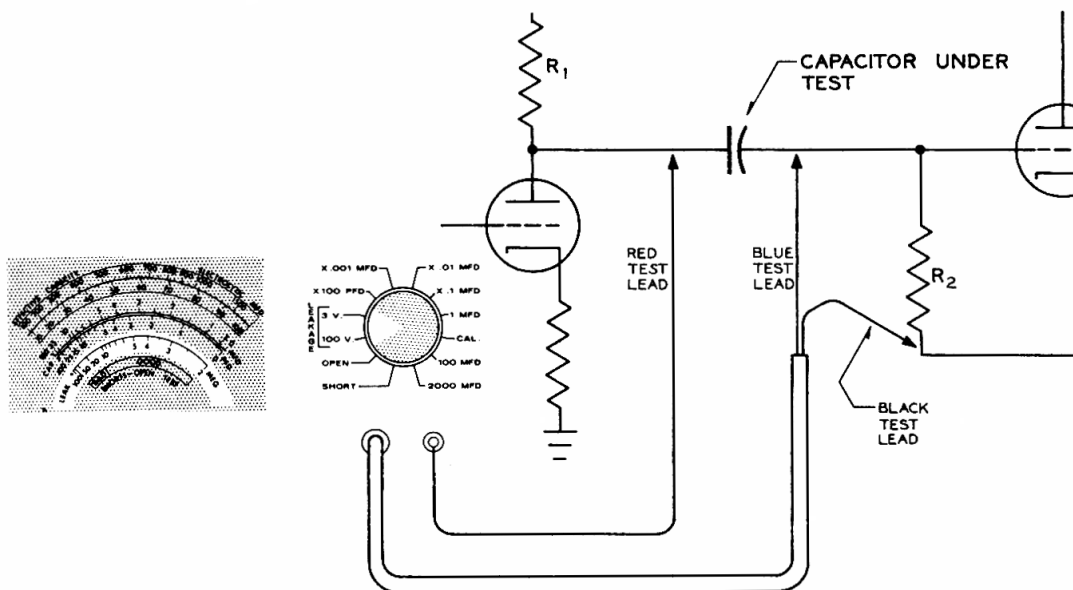


FIGURE 2. LEAKAGE TEST FOR COUPLING CAPACITORS.

LEAKAGE TEST

“IN CIRCUIT” TEST FOR BY-PASS OR OTHER CAPACITORS WITH ONE SIDE GROUNDED. See Figure 3.

NOTE: If the capacitor under test is by-passing a resistor going to B+ then one lead must be disconnected.

The BLACK test lead is not used in this test.

1. Remove all power from the circuit in which the capacitor to be tested is located.
2. Connect the BLUE test lead to the ground side of the capacitor. Connect the RED test lead to the side above ground.
3. Set *Selector* switch to 100 VOLT LEAKAGE if voltage rating of capacitor is above 100 volts, or to 3 VOLT LEAKAGE if rating of capacitor is between 3 volts and 100 volts.
4. Adjust *Meter Adjust* control (on front panel) until meter pointer is at INFINITY line (left side of meter).
5. Depress *Test* switch and read leakage resistance directly in megohms on Leakage scale.

TESTING CAPACITORS “OUT OF CIRCUIT”

NOTE: The BLACK test lead is not used in this test.

1. Disconnect one capacitor lead if in circuit.
2. Connect the BLUE and RED test leads to the leads of the capacitor.
3. Rotate *Selector* switch to 100 VOLT LEAKAGE if voltage rating of capacitor is above 100 volts, or to 3 VOLT LEAKAGE, if rating of capacitor is between 3 volts and 100 volts.
4. Rotate *Meter Adjust* control to INFINITY line (left side of meter).
5. Depress *Test* switch and read leakage resistance directly in megohms on Leakage scale.

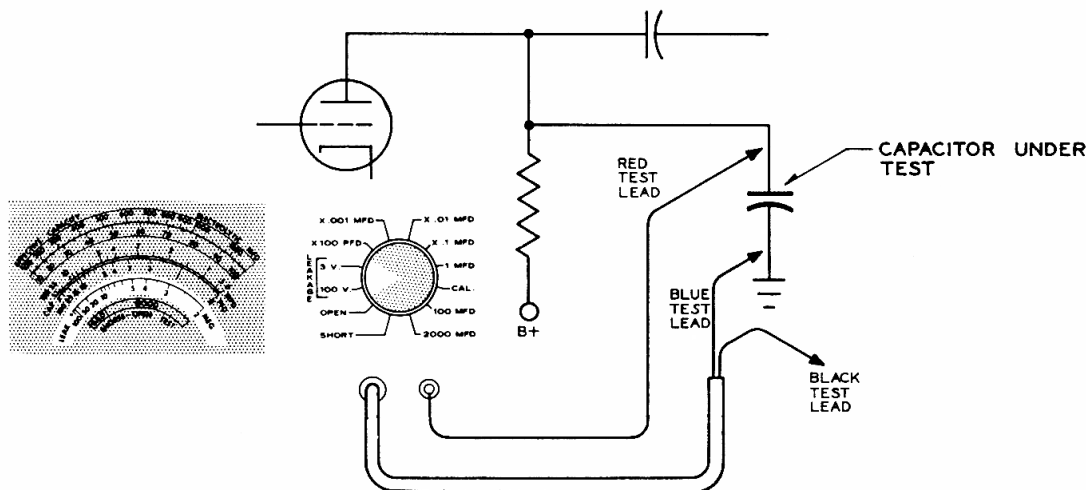


FIGURE 3. LEAKAGE TEST FOR BY-PASS CAPACITORS.

CAPACITY VALUE TEST

(from 25 pfd to 100 mfd)

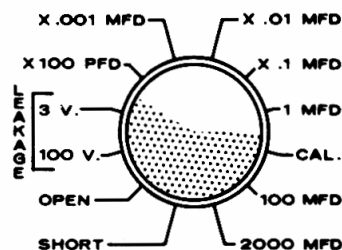
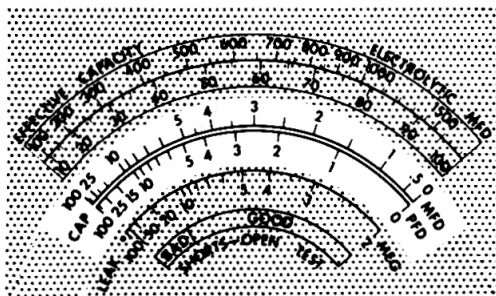
NOTES: The capacitor to be measured must be out of the circuit or have one end disconnected for this test. The RED test lead is not used in this test.

1. Set the *Selector* switch to the appropriate multiplier range.
2. Adjust *Calibrate* control for (zero) full scale reading on the meter face. Be sure the test leads are not in contact with each other. Do not hold the test leads on very low capacity measurement because hand capacity will cause an inaccurate reading.
3. Connect the BLUE and BLACK test leads to the leads of the capacitor.
4. Read the value indicated on the meter face and multiply by the value of the range.

Capacity measurements may be made on any type of capacitor (except electrolytics which are evaluated in another test) as long as it falls within the range of the Model 801 and has a working voltage of 3 volts or more. This permits testing low voltage transistor circuit capacitors as well as those used in vacuum tube circuits.

INTERPRETING THE METER SCALES:

Capacitors whose values range between 0 and 10,000 pfd may be read on the PFD scale. Capacitor with values between 0 and 100 mfd are read on the MFD scale. For greatest accuracy, it is recommended that capacitor values greater than 1500 pfd be read on the MFD scale with the selector switch in the X .001 range. A picofarad (PFD) is equivalent to a micromicrofarad.



SCALE & SELECTOR LOCATION FOR CAPACITY VALUE TEST

EXAMPLES: If the meter indicates 3 on the microfarads scale with the *Selector* switch in the *X .001 MFD* position, the capacitor has a value of $3 \times .001 = .003 \text{ mfd}$.

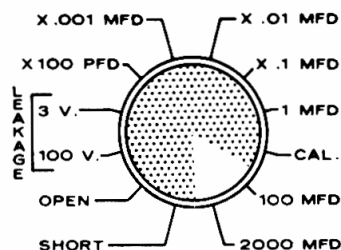
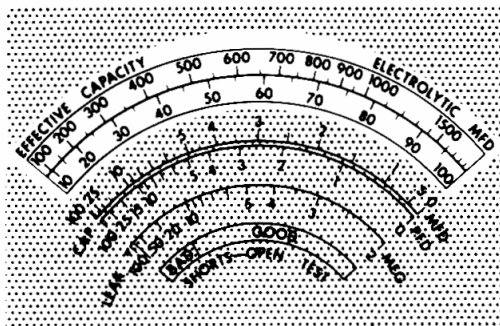
If the meter reads 30 on the same scale, the value of the capacitor will be $30 \times .001 = .03 \text{ mfd}$.

If the meter reads 4 on the picofarads scale with the *Selector* switch in the *X 100 pfd* position, the capacitor has a value of $4 \times 100 = 400 \text{ pfd}$.

ELECTROLYTIC CAPACITY TEST

NOTE: All electrolytic capacitors must be checked out of circuit. If the rated value of the electrolytic is less than 10 MFD, make the value test on the X1 MFD range.

1. Disconnect one end of the capacitor to be tested if it is in circuit.
2. Set the *Selector* switch to CALIBRATE, and adjust the *Calibrate* control on the front panel for full scale reading on the meter.
3. Connect the BLUE test lead to the + terminal of the capacitor. Connect the BLACK lead to the - terminal of the capacitor. The RED lead is not used.
4. Set the *Selector* switch to the desired capacity range (100 mfd or 2000 mfd).
5. Read capacity directly on one of the top scales. If the capacitor has been properly formed, the reading will be an accurate indication of the actual storage ability of the capacitor. If it is more than 20% below the rated capacity, it is "BAD" and should be replaced. The amount of leakage in the capacitor is automatically computed into the meter reading.



SCALE & SELECTOR LOCATION FOR ELECTROLYTIC TEST

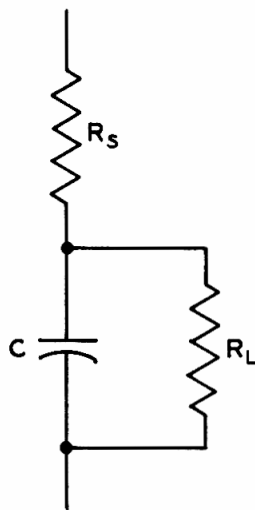
If no reading is observed on the meter, and the *Electrolytic Short lamp* glows very brightly, the capacitor is shorted.

If no reading is observed on the meter, and the *Electrolytic Short lamp* does not light at all, the capacitor is open.

This test should especially be made whenever new rectifiers are installed, as they tend to place a heavy load on the filter capacitors which will shorten their useful life.

The Model 801 actually tests the ability of an electrolytic capacitor to perform the function for which it was designed—store up energy on one half cycle and return it to the circuit on the other half cycle. How well an electrolytic does this job is determined by its capacity size, leakage resistance (dielectric resistance), and its equivalent series resistance (internal resistance of plate and lead material and lead connections).

From the diagram it is obvious that the equivalent series resistance (R_s) reduces the amount of energy the capacitor can absorb during the charging half cycle. Also, the limited energy that was stored is further attenuated on the discharge half cycle by the leakage resistance (R_L). The end result is a reduction in the capacity of the electrolytic.



The capacity, leakage resistance and equivalent series resistance are all measured in one reading by a unique test circuit in the Model 801. This reading tells you the “effective capacity” actually available to do the job.

Electrolytic capacitors normally have a tolerance of — 20% to + 100%, therefore a reading higher than anticipated may be observed. If the meter indicates a value of “effective capacity” 20% below capacitor’s rated value, that capacitor should be replaced because it is less than marginal and cannot do a proper job of filtering.

You may notice that some of the higher value capacitors cause the *Electrolytic Short lamp* to glow dimly. This should not be interpreted as a “short” condition. When “shorted,” the meter will indicate zero capacitance.

RESISTORS	
1/2 WATT	5% TOLERANCE
1/4 WATT	5% TOLERANCE
1/8 WATT	5% TOLERANCE
1/16 WATT	5% TOLERANCE
1/32 WATT	5% TOLERANCE
1/64 WATT	5% TOLERANCE
1/128 WATT	5% TOLERANCE
1/256 WATT	5% TOLERANCE
1/512 WATT	5% TOLERANCE
1/1024 WATT	5% TOLERANCE
1/2048 WATT	5% TOLERANCE
1/4096 WATT	5% TOLERANCE
1/8192 WATT	5% TOLERANCE
1/16384 WATT	5% TOLERANCE
1/32768 WATT	5% TOLERANCE
1/65536 WATT	5% TOLERANCE
1/131072 WATT	5% TOLERANCE
1/262144 WATT	5% TOLERANCE
1/524288 WATT	5% TOLERANCE
1/1048576 WATT	5% TOLERANCE
1/2097152 WATT	5% TOLERANCE
1/4194304 WATT	5% TOLERANCE
1/8388608 WATT	5% TOLERANCE
1/16777216 WATT	5% TOLERANCE
1/33554432 WATT	5% TOLERANCE
1/67108864 WATT	5% TOLERANCE
1/134217728 WATT	5% TOLERANCE
1/268435456 WATT	5% TOLERANCE
1/536870912 WATT	5% TOLERANCE
1/1073741824 WATT	5% TOLERANCE
1/2147483648 WATT	5% TOLERANCE
1/4294967296 WATT	5% TOLERANCE
1/8589934592 WATT	5% TOLERANCE
1/17179869184 WATT	5% TOLERANCE
1/34359738368 WATT	5% TOLERANCE
1/68719476736 WATT	5% TOLERANCE
1/137438953472 WATT	5% TOLERANCE
1/274877906944 WATT	5% TOLERANCE
1/549755813888 WATT	5% TOLERANCE
1/1099511627776 WATT	5% TOLERANCE
1/2199023255552 WATT	5% TOLERANCE
1/4398046511104 WATT	5% TOLERANCE
1/8796093022208 WATT	5% TOLERANCE
1/17592186044416 WATT	5% TOLERANCE
1/35184372088832 WATT	5% TOLERANCE
1/70368744177664 WATT	5% TOLERANCE
1/140737488355328 WATT	5% TOLERANCE
1/281474976710656 WATT	5% TOLERANCE
1/562949953421312 WATT	5% TOLERANCE
1/1125899906842624 WATT	5% TOLERANCE
1/2251799813685248 WATT	5% TOLERANCE
1/4503599627370496 WATT	5% TOLERANCE
1/9007199254740992 WATT	5% TOLERANCE
1/18014398509481984 WATT	5% TOLERANCE
1/36028797018963968 WATT	5% TOLERANCE
1/72057594037927936 WATT	5% TOLERANCE
1/144115188075855872 WATT	5% TOLERANCE
1/288230376151711744 WATT	5% TOLERANCE
1/576460752303423488 WATT	5% TOLERANCE
1/1152921504606846976 WATT	5% TOLERANCE
1/2305843009213693952 WATT	5% TOLERANCE
1/4611686018427387904 WATT	5% TOLERANCE
1/9223372036854775808 WATT	5% TOLERANCE
1/18446744073709551616 WATT	5% TOLERANCE
1/36893488147419103232 WATT	5% TOLERANCE
1/73786976294838206464 WATT	5% TOLERANCE
1/147573952589676412928 WATT	5% TOLERANCE
1/295147905179352825856 WATT	5% TOLERANCE
1/590295810358705651712 WATT	5% TOLERANCE
1/1180591620717411303424 WATT	5% TOLERANCE
1/2361183241434822606848 WATT	5% TOLERANCE
1/4722366482869645213696 WATT	5% TOLERANCE
1/9444732965739290427392 WATT	5% TOLERANCE
1/18889465931478580854784 WATT	5% TOLERANCE
1/37778931862957161709568 WATT	5% TOLERANCE
1/75557863725914323419136 WATT	5% TOLERANCE
1/151115727451828646838272 WATT	5% TOLERANCE
1/302231454903657293676544 WATT	5% TOLERANCE
1/604462909807314587353088 WATT	5% TOLERANCE
1/1208925819614629174706176 WATT	5% TOLERANCE
1/2417851639229258349412352 WATT	5% TOLERANCE
1/4835703278458516698824704 WATT	5% TOLERANCE
1/9671406556917033397649408 WATT	5% TOLERANCE
1/19342813113834066795298816 WATT	5% TOLERANCE
1/38685626227668133590597632 WATT	5% TOLERANCE
1/77371252455336267181195264 WATT	5% TOLERANCE
1/154742504910672534362390528 WATT	5% TOLERANCE
1/309485009821345068724781056 WATT	5% TOLERANCE
1/618970019642690137449562112 WATT	5% TOLERANCE
1/1237940039285380274899124224 WATT	5% TOLERANCE
1/2475880078570760549798248448 WATT	5% TOLERANCE
1/4951760157141521099596496896 WATT	5% TOLERANCE
1/9903520314283042199192993792 WATT	5% TOLERANCE
1/19807040628566084398385987584 WATT	5% TOLERANCE
1/39614081257132168796771975168 WATT	5% TOLERANCE
1/79228162514264337593543950336 WATT	5% TOLERANCE
1/158456325028528675187087900672 WATT	5% TOLERANCE
1/316912650057057350374175801344 WATT	5% TOLERANCE
1/633825300114114700748351602688 WATT	5% TOLERANCE
1/1267650600228229401496703205376 WATT	5% TOLERANCE
1/2535301200456458802993406410752 WATT	5% TOLERANCE
1/5070602400912917605986812821504 WATT	5% TOLERANCE
1/10141204801825835211973625643008 WATT	5% TOLERANCE
1/20282409603651670423947251286016 WATT	5% TOLERANCE
1/40564819207303340847894502572032 WATT	5% TOLERANCE
1/81129638414606681695789005144064 WATT	5% TOLERANCE
1/162259276829213363391578010288128 WATT	5% TOLERANCE
1/324518553658426726783156020576256 WATT	5% TOLERANCE
1/649037107316853453566312041152512 WATT	5% TOLERANCE
1/1298074214633706907132624082305024 WATT	5% TOLERANCE
1/2596148429267413814265248164610048 WATT	5% TOLERANCE
1/5192296858534827628530496329220096 WATT	5% TOLERANCE
1/10384593717069655257060992658440192 WATT	5% TOLERANCE
1/20769187434139310514121985316880384 WATT	5% TOLERANCE
1/41538374868278621028243970633760768 WATT	5% TOLERANCE
1/83076749736557242056487941267521536 WATT	5% TOLERANCE
1/166153499473114484112975882535043072 WATT	5% TOLERANCE
1/332306998946228968225951765070086144 WATT	5% TOLERANCE
1/664613997892457936451903530140172288 WATT	5% TOLERANCE
1/1329227995784915872903807060280344576 WATT	5% TOLERANCE
1/2658455991569831745807614120560689152 WATT	5% TOLERANCE
1/5316911983139663491615228241121378304 WATT	5% TOLERANCE
1/10633823966279326983230456482242756608 WATT	5% TOLERANCE
1/21267647932558653966460912964485513216 WATT	5% TOLERANCE
1/42535295865117307932921825928971026432 WATT	5% TOLERANCE
1/85070591730234615865843651857942052864 WATT	5% TOLERANCE
1/170141183460469231731687303715884105728 WATT	5% TOLERANCE
1/340282366920938463463374607431768211456 WATT	5% TOLERANCE
1/680564733841876926926749214863536422912 WATT	5% TOLERANCE
1/1361129467683753853853498429727072845824 WATT	5% TOLERANCE
1/2722258935367507707706996859454145691648 WATT	5% TOLERANCE
1/5444517870735015415413993718908291383296 WATT	5% TOLERANCE
1/10889035741470030830827987437816582766592 WATT	5% TOLERANCE
1/21778071482940061661655974875633165533184 WATT	5% TOLERANCE
1/43556142965880123323311949751266331066368 WATT	5% TOLERANCE
1/87112285931760246646623899502532662132736 WATT	5% TOLERANCE
1/174224571863520493293247799005065324265472 WATT	5% TOLERANCE
1/348449143727040986586495598010130648530944 WATT	5% TOLERANCE
1/696898287454081973172991196020261291061888 WATT	5% TOLERANCE
1/1393796574908163946345982392040522582123776 WATT	5% TOLERANCE
1/2787593149816327892691964784081045164247552 WATT	5% TOLERANCE
1/5575186299632655785383929568162090328495104 WATT	5% TOLERANCE
1/11150372599265311570767859136324180656990208 WATT	5% TOLERANCE
1/22300745198530623141535718272648361313980416 WATT	5% TOLERANCE
1/44601490397061246283071436545296722627960832 WATT	5% TOLERANCE
1/89202980794122492566142873090593445255921664 WATT	5% TOLERANCE
1/178405961588244985132285746181186890511843296 WATT	5% TOLERANCE
1/356811923176489970264571492362373781023686592 WATT	5% TOLERANCE
1/713623846352979940529142984724747562047373184 WATT	5% TOLERANCE
1/1427247692705959881058285969449495124094746368 WATT	5% TOLERANCE
1/2854495385411919762116571938898990248189492736 WATT	5% TOLERANCE
1/5708990770823839524233143877797980496378985472 WATT	5% TOLERANCE
1/11417981541647679048466287755595960992757970944 WATT	5% TOLERANCE
1/22835963083295358096932575511191921985515941888 WATT	5% TOLERANCE
1/45671926166590716193865151022383843971031883776 WATT	5% TOLERANCE
1/91343852333181432387730302044767687942063767552 WATT	5% TOLERANCE
1/182687704666362864775460604089535375884127351104 WATT	5% TOLERANCE
1/365375409332725729550921208179070751768254702208 WATT	5% TOLERANCE
1/730750818665451459101842416358141503536509404416 WATT	5% TOLERANCE
1/1461501637330902918203684832716283007073018808832 WATT	5% TOLERANCE
1/2923003274661805836407369665432566014146037617664 WATT	5% TOLERANCE
1/5846006549323611672814739330865132028292075235328 WATT	5% TOLERANCE
1/11692013098647223345629478661730264056584150470656 WATT	5% TOLERANCE
1/23384026197294446691258957323460528113168300941312 WATT	5% TOLERANCE
1/46768052394588893382517914646921056226336601882624 WATT	5% TOLERANCE
1/93536104789177786765035829293842112452673203765248 WATT	5% TOLERANCE
1/187072209578355573530071658587684224905346407530496 WATT	5% TOLERANCE
1/374144419156711147060143317175368449810692815060992 WATT	5% TOLERANCE
1/748288838313422294120286634350736899621385630121984 WATT	5% TOLERANCE
1/1496577676626844588240573268701473799242771260243968 WATT	5% TOLERANCE
1/2993155353253689176481146537402947598485542520487936 WATT	5% TOLERANCE
1/5986310706507378352962293074805895196971085040975872 WATT	5% TOLERANCE
1/11972621413014756705924586149611790393942170081951744 WATT	5% TOLERANCE
1/23945242826029513411849172299223580787884340163903488 WATT	5% TOLERANCE
1/47890485652059026823698344598447161575768680327806976 WATT	5% TOLERANCE
1/95780971304118053647396689196894323151537360655613952 WATT	5% TOLERANCE
1/191561942608236107294793373993788646303074721311227904 WATT	5% TOLERANCE
1/383123885216472214589586747987577292606149442622455808 WATT	5% TOLERANCE
1/766247770432944429179173495975154585212298885244911616 WATT	5% TOLERANCE
1/1532495540865888858358346991950309170424597770489823232 WATT	5% TOLERANCE
1/3064991081731777716716693983900618360849195540979646464 WATT	5% TOLERANCE
1/6129982163463555433433387967801236721698391081959292928 WATT	5% TOLERANCE
1/12259964326927110866866775935602473443396782163918585856 WATT	5% TOLERANCE
1/24519928653854221733733551871204946886793564327837171712 WATT	5% TOLERANCE
1/49039857307708443467467103742409893773587128655674343424 WATT	5% TOLERANCE
1/98079714615416886934934207484819787547174257311348686848 WATT	5% TOLERANCE
1/196159429230833773869868414969639575094348514622697373696 WATT	5% TOLERANCE
1/392318858461667547739736829939279150188697029245394747392 WATT	5% TOLERANCE
1/784637716923335095479473659878558300377394058490789494784 WATT	5% TOLERANCE
1/1569275433846670190958947319757116600754788116981578989568 WATT	5% TOLERANCE
1/3138550867693340381917894639514232201509576233963157979136 WATT	5% TOLERANCE
1/6277101735386680763835789279028464403019152467926315958272 WATT	5% TOLERANCE
1/12554203470773361527671578558056928806038304935852631916544 WATT	5% TOLERANCE
1/25108406941546723055343157116113857612076609871705263833088 WATT	5% TOLERANCE
1/50216813883093446110686314232227715224153219743410527666176 WATT	5% TOLERANCE
1/100433627766186892221372628464454326448306439486821055332352 WATT	5% TOLERANCE
1/200867255532373784442745256928908652896612878973642110664704 WATT	5% TOLERANCE
1/401734511064747568885490513857817305793225757947284221329408 WATT	5% TOLERANCE
1/803469022129495137770981027715634611586451515894568442658816 WATT	5% TOLERANCE
1/1606938044258990275541962055431269223172903031789170885317632 WATT	5% TOLERANCE
1/3213876088517980551083924110862538446345806063578341770635264 WATT	5% TOLERANCE
1/6427752177035961102167848221725076932691612127156683541270528 WATT	5% TOLERANCE
1/12855504354071922204335696443450153865383224254313367082541056 WATT	5% TOLERANCE
1/25711008708143844408671392886900307730766448508626734165082112 WATT	5% TOLERANCE
1/51422017416287688817342785773800615461532897017253468330164224 WATT	5% TOLERANCE
1/102844034832575377634685571547601230922665794034506936660328448 WATT	5% TOLERANCE
1/205688069665150755269371143095202461845331588069013873320656896 WATT	5% TOLERANCE
1/411376139330301510538742286190404923690663176138027746641313792 WATT	5% TOLERANCE
1/822752278660603021077484572380809847381326352276055493282627584 WATT	5% TOLERANCE
1/1645504557321206042154969144761619694762652704552110986565255168 WATT	5% TOLERANCE
1/3291009114642412084309938289523239389525305409104221973130510336 WATT	

B & K MODEL 801 PARTS AND PRICE LIST

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART No.	DEALER'S NET
---------------------	-------------	-------------------	-----------------

RESISTORS

R-2	1K/250 Ohm Dual Control.....	008-002-9-002	\$1.20
R-7	2.5K Ohm Control W/S-3 Attached.....	008-001-9-014	1.05
R-109	500/150/100 Ohm Triple Control.....	010-001-9-004	1.08
R-121	5K/250/250 Ohm Triple Control.....	010-001-9-003	1.05

CAPACITORS

C-3	80/80 MF, 250 Volt Electrolytic W/ins. Cover.....	021-005-9-001	1.68
C-105	200 MF, 4 Volt Electrolytic.....	022-001-9-007	.33
C-106	10 MF, 25 Volt Electrolytic.....	022-001-9-004	.33
C-108	8-50 PF, 4 Volt Trimmer.....	028-003-9-005	.84

COILS AND TRANSFORMERS

L-101	Series Test Lead Coil.....	041-001-9-015	1.80
L-102	20 MC Oscillator Coil.....	066-002-9-001	.81
T-1	Power Transformer	065-010-9-001	4.65

SWITCHES

SW-1	Selector Switch	090-002-9-001	7.92
S-2	Test Switch	084-002-9-002	.30
S-3 (A&B)	Power and Meter Switch (See R-7)		

TUBES AND DIODES

V-1 & V-2	12AU7	235-120-1-217	1.23
D-1 & D-102	Silicon Diode, 100 MA.	112-351-0-101	.69
D-2, D-104, D-105	Silicon Diode, 500 MA.	112-500-0-501	.42
D-106	1N48 Diode	150-001-9-002	.34
D-103	1N48 Diode (Selected)	150-001-9-001	.34

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART No.	DEALER'S NET
MISCELLANEOUS			
Case		272-007-9-002	11.49
Foot, Rubber		381-002-9-001	.06
Handle		746-001-9-001	.48
Knob, Large		751-005-9-001	.39
Knob, Small		751-005-9-003	.36
Knob, Small W/Marker		751-005-9-002	.39
Lamp, Indicator		401-001-9-001	.46
Lens, Red		750-001-9-001	.15
Line Cord		420-005-9-001	.36
Meter, 200 μ a.		320-002-9-001	14.82
Manual, Instruction		480-007-9-001	
Panel, Front		255-007-9-001	1.44
Plug Button, Meter		738-001-9-002	.03
Schematic & Parts List		488-017-9-001	

(Prices subject to change without notice)

Minimum charge \$1.00 per invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover postage or express.