OPERATING INSTRUCTIONS

FOR ALL

GRAHAM MODELS

51, 51-A, 51-C,

51-RP, and 51-RPC

COIL AND CONDENSER TESTERS

Graham - Lee

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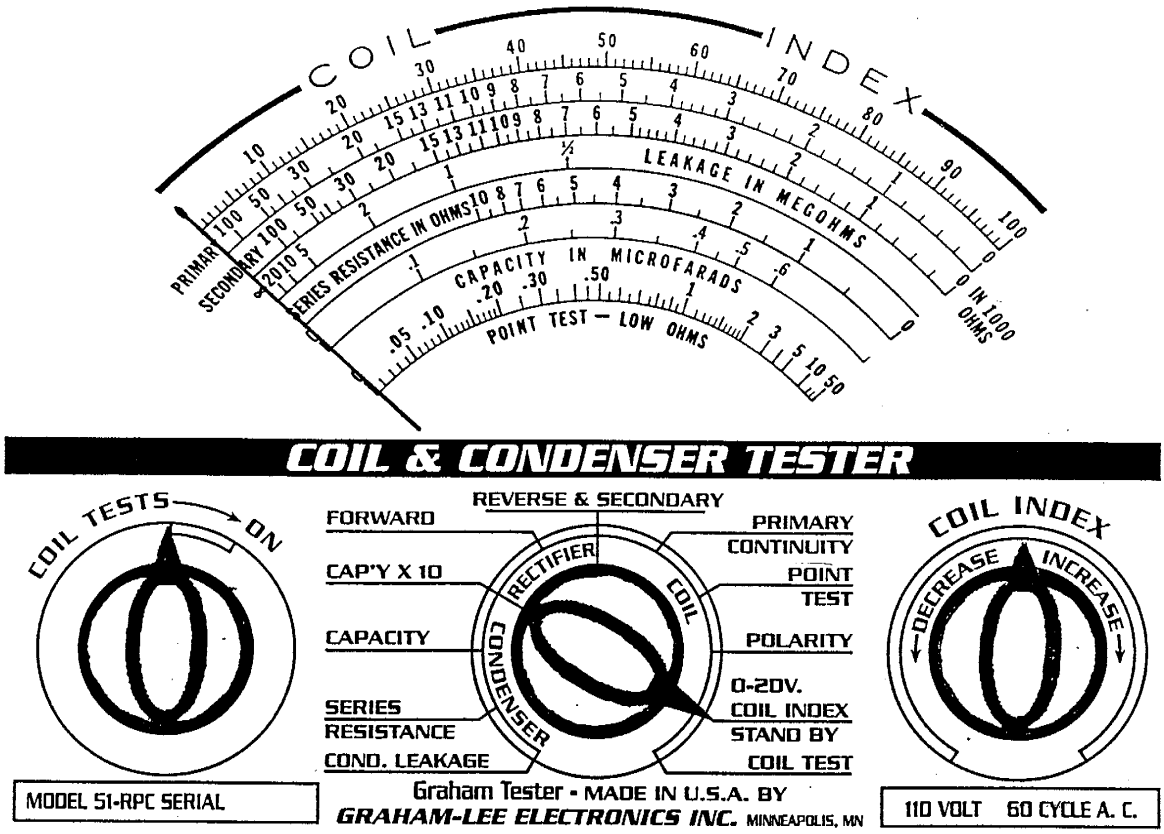
COIL AND CONDENSER TESTING



STAND BY

Use the "COIL INDEX" switch position for "standby" position.

Set control knobs in position as shown above, plug line cord into 117 Volts - 60 cycle only. Turn line switch, at left of METER, to "ON" position. Pilot light will indicate when line switch is "ON".

The tube will warm-up in a few moments and the TESTER will be ready for use. In humid climate, or if the TESTER is not used regularly, the warm-up time should be extended to drive out any moisture.

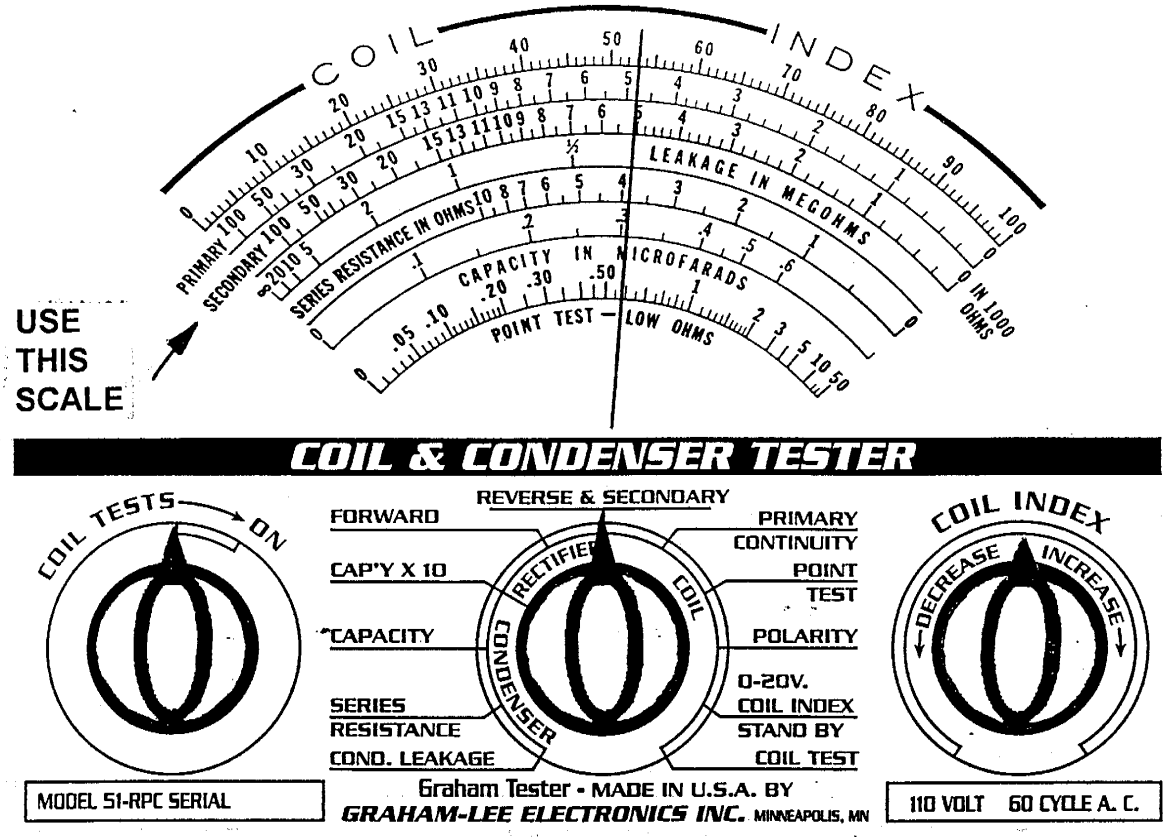
There is a definite reason for the sequence of order of the tests. A Coil or Condenser must pass each test. Failure on any test in the sequence indicates replacement of the affected part is required.

The Model 51 is a precision instrument. Deserving reasonable care and understanding of its proper use. KEEP IT CLEAN. Check the accuracy of the calibration frequently, as outlined in Calibration Section.

The illustrated tests which follow are intended to be an easy visual guide to rapid, accurate operation of this unit. Each test is necessary and dependable. New operators should practice making all the tests with new Coil and Condensers, until proficient.

NOTE: On Model 51 P and 51 RP units equipped with "POINT TEST" (see page 13) the "COIL INDEX" position is used for "STANDBY." "POLARITY" and "COIL TEST" positions may also be used for "STANDBY" if desired.

COIL TESTING



SECONDARY ATTACHED TO PRIMARY

Attach TEST CLIPS as shown at 1 and 2, observing Polarity at 2. BLACK CLIP to Negative and RED CLIP to Positive. Ignore Polarity on Magneto Coils unless specified. Attach the Clip at 1 to a screwdriver for reaching a contact in deep towers.

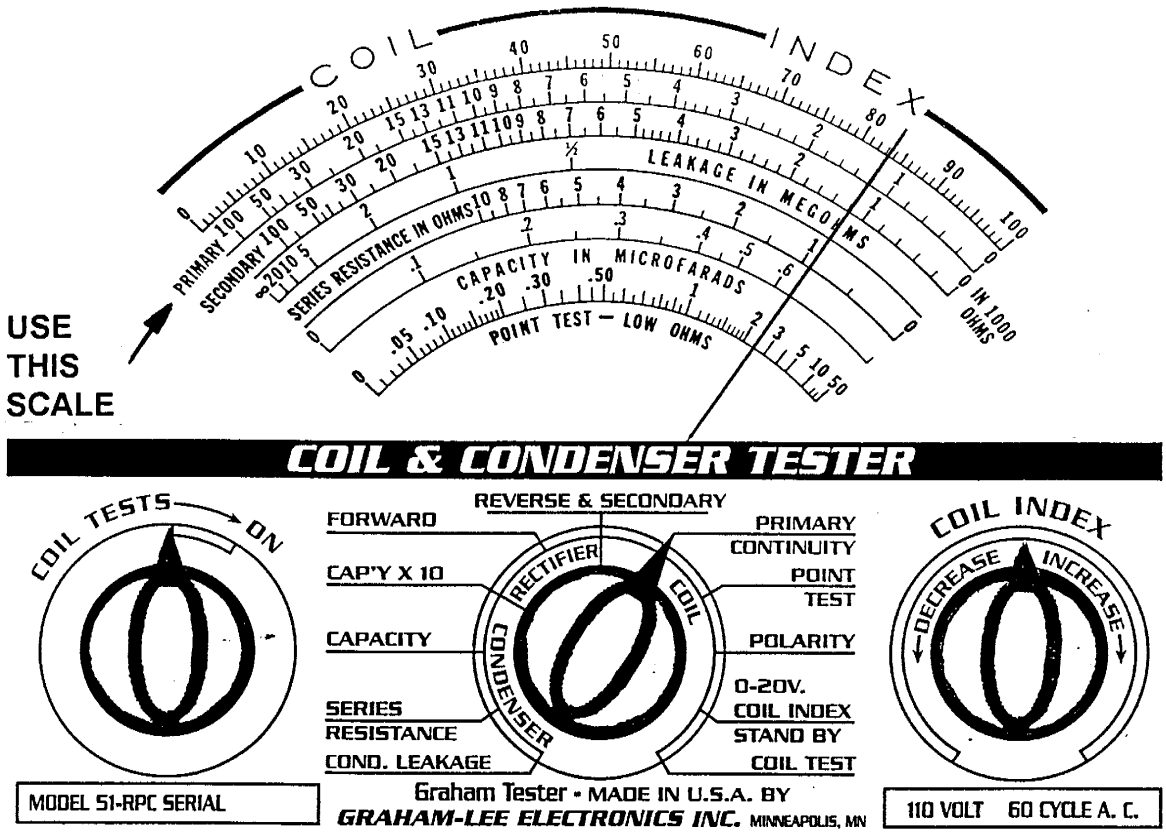
METER reading must be under the maximum specifications. No reading or high reading indicates defective Coil. Illustration above shows the METER reading 5000 OHMS.

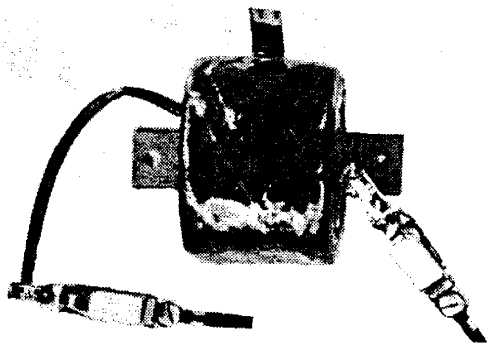
Move Clip at 1 to a good contact at 3. Any METER reading indicates a short to case. Replace the coil.

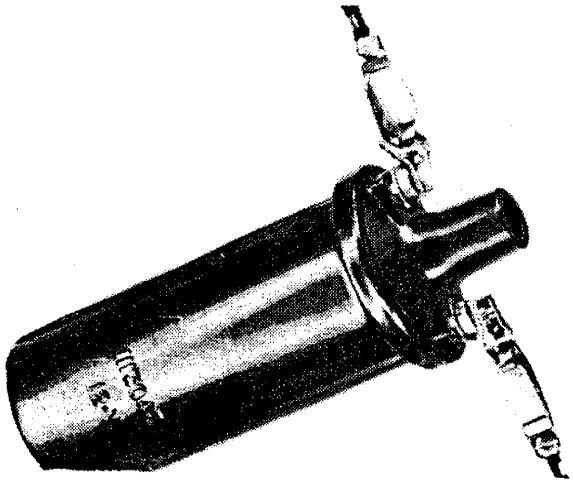
Transfer Clip at 3 to 4. If Correct Polarity has been observed the Test clips will not need to be moved again while making the next tests.

A few coils have their secondary attached to the case. These will be covered under COIL TESTS GENERAL.

COIL TESTING







PRIMARY CONTINUITY

After connecting test clips, press push button "PRIMARY CONTINUITY" for METER reading**

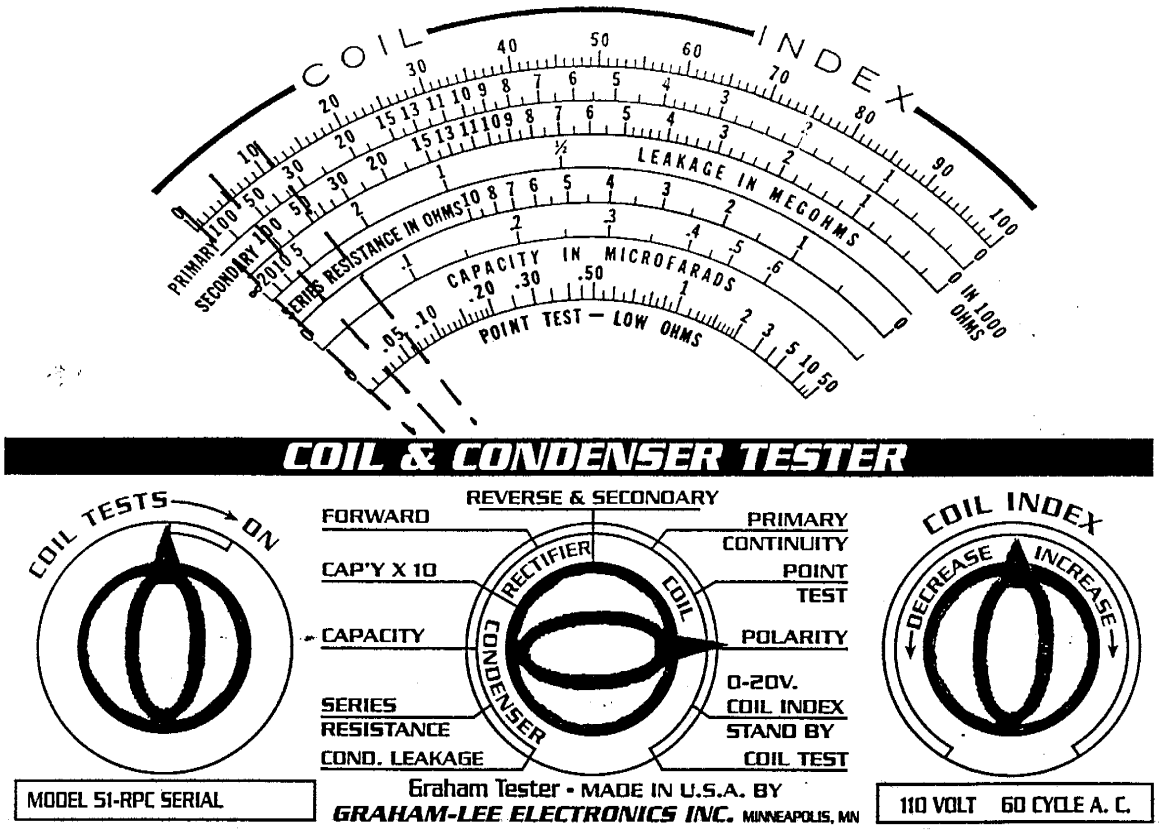
METER reading must not exceed specification or Coil is not fit for further service. The METER reading above is 1.2.

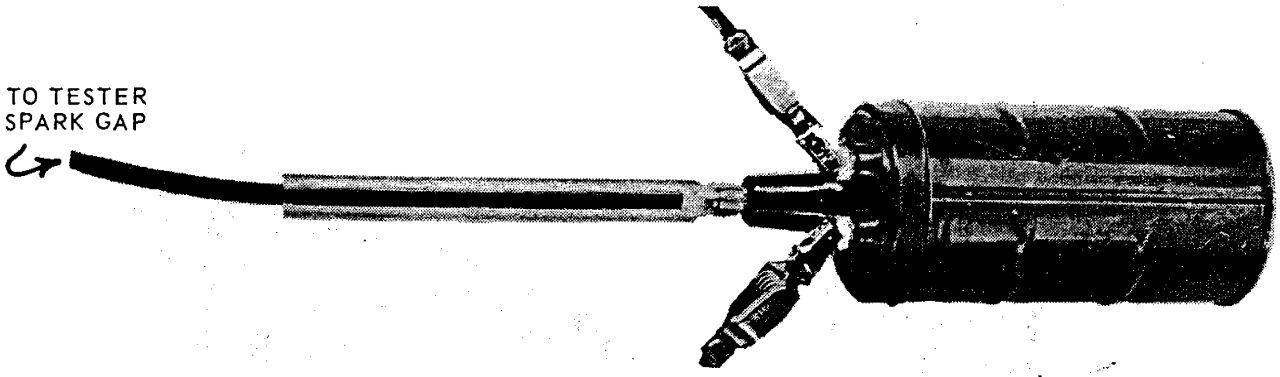
Magneto coils must always be checked with the core "in" unless otherwise specified. If checked in the assembled magneto, they will show a higher reading than that given in the specifications.

This test circuit is powered by alternating current and resultant METER readings are of Primary Impedance. Do not confuse impedance with the resistance reading obtained with an Ohmmeter.

**Primary continuity circuit only

COIL TESTING





COIL POLARITY

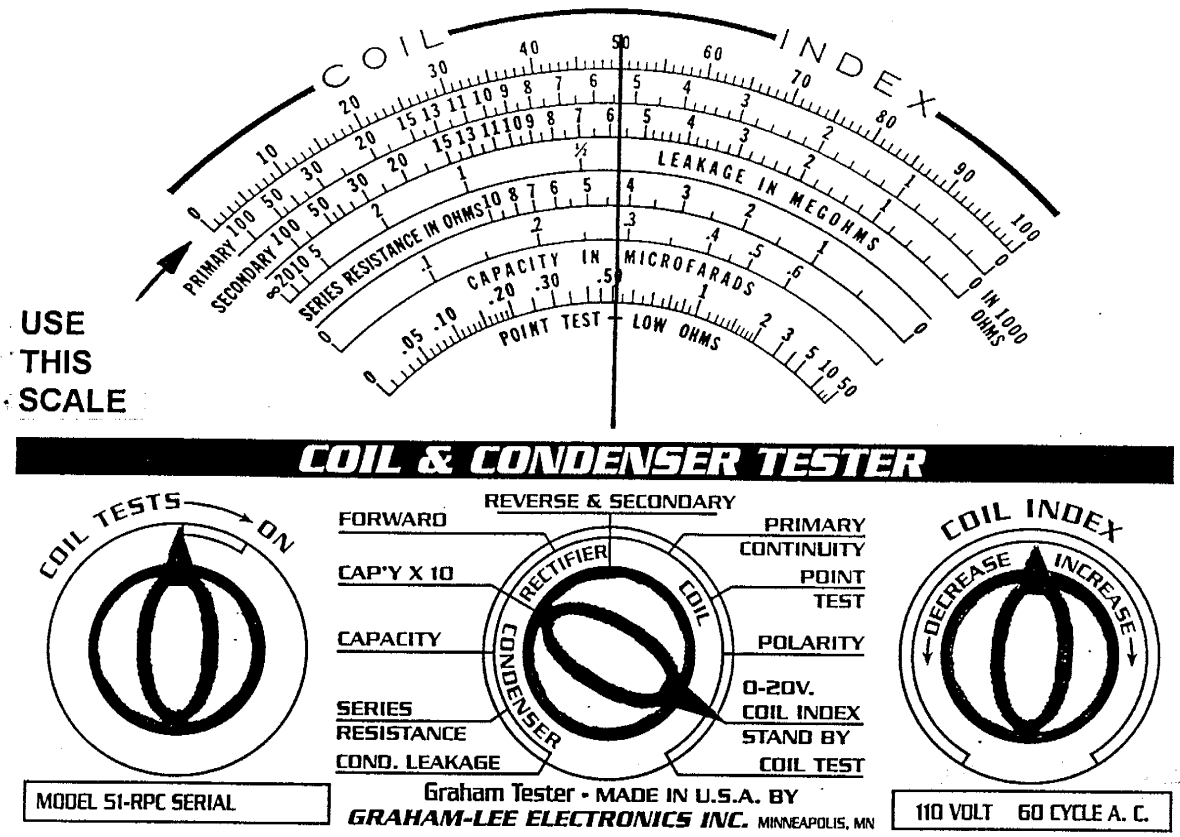
Check specifications to see if manufacturer wants coil polarity checked. It is of special importance on late model engines where it is desired to have the Secondary spark (center electrode of the spark plug) Negative in relation to ground. Caution: Always turn Coil Index knob full left before making Coil Polarity test.

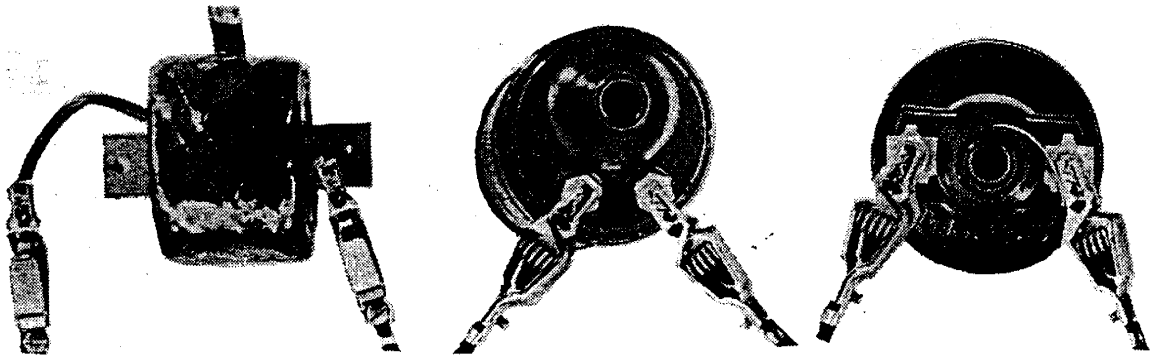
Test Clips must be on correct primary terminals. Black Clip must be on Negative Terminal and the Red Clip on Positive terminal.

Clip Test probe lead to spark gap on tester and hold probe end on secondary terminal on coil. Turn "Coil Test" switch "on" and there should be a steady spark across the spark Gap. If there is no spark or if spark is not steady, turn "Coil Index" knob to right until there is a good spark across Spark Gap on Tester.

The METER will read "up" (to the right) if Polarity is correct. The METER will read "down" (to the left) if Polarity is reversed. Distance METER pointer swings is not important.

COIL TESTING





COIL INDEX

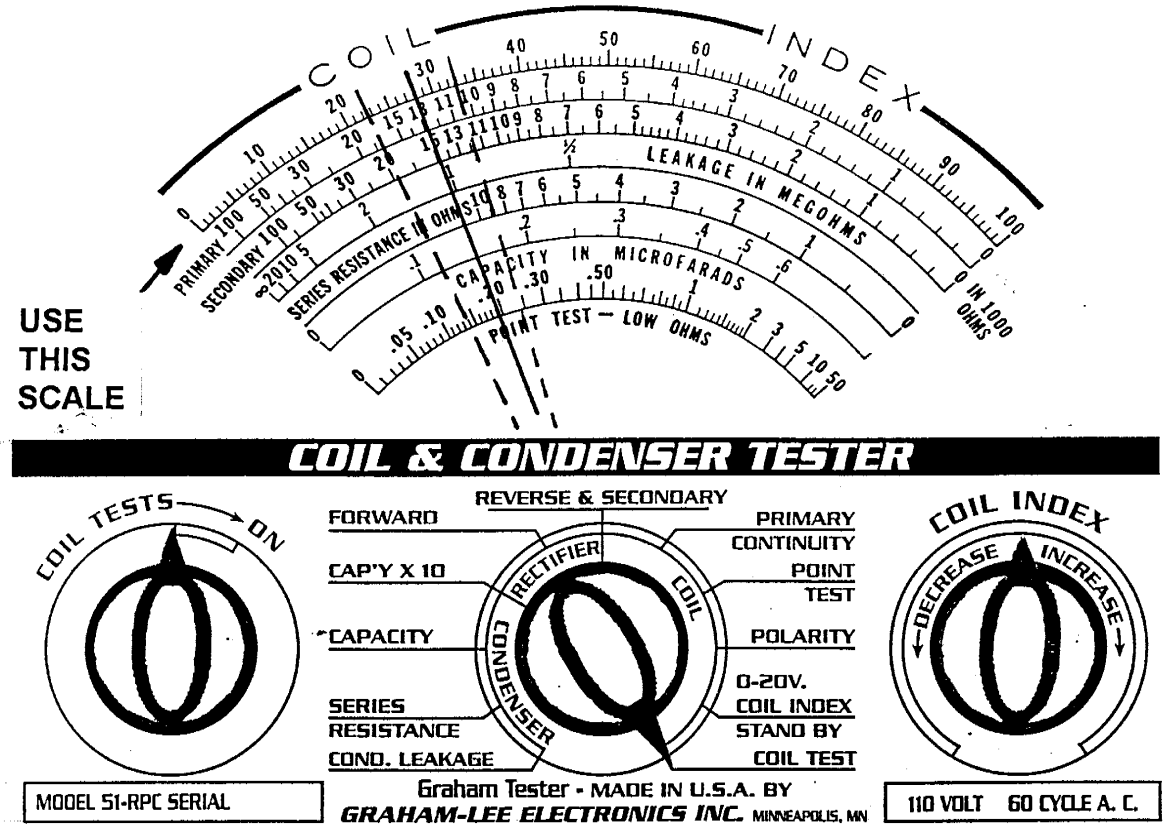
Look-up the Correct Coil Index setting for coil being tested. Test Clips need not be disconnected when setting Coil Index.

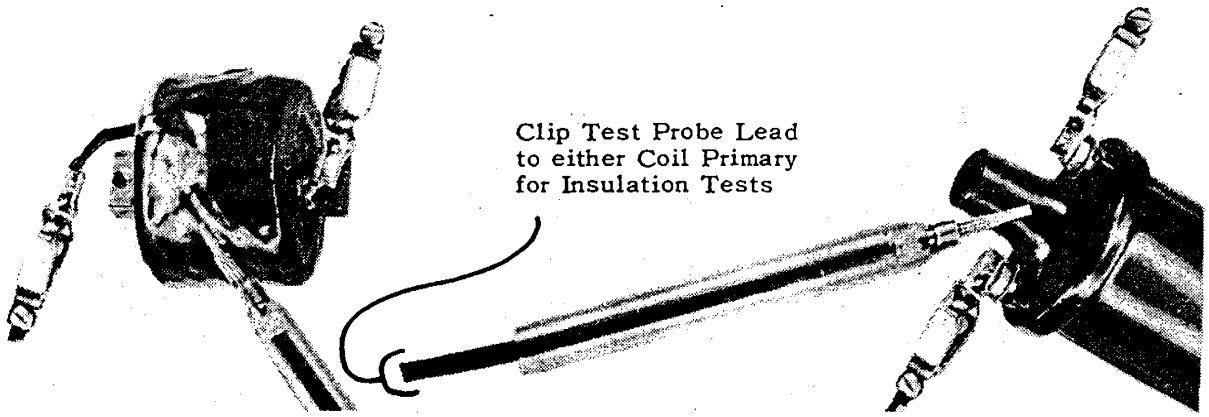
Hold the Coil Tests Knob in the "ON" position and adjust the Coil Index Knob until the METER reads the selected figure on the Coil Index Scale. The Coil Index setting shown above is 50. Release the Coil Tests Knob and do not change Index setting during next test.

The Coil Index setting determines the amount of primary firing Power necessary to generate the required secondary open Voltage.

CAUTION: DO NOT exceed the Coil Index specifications at any time.

COIL TESTING





COIL FIRING TEST

(Do not made this test on a metal bench)

Coil Index setting must be correct (see Preceding Page). Test Clips must be connected on correct primary terminals of coil. Black Clip on Negative terminal and Red Clip on Positive Terminal. (See Coil Polarity Test.) On this Coil Firing Test there is nothing connected to the coil secondary terminal. Hold Coil Tests Knob "ON". Observe METER reading on coil index scale.

METER Reading must remain steady at or above the figures given in specification under Coil Test.

Most good coils will read above the minimum / coil Test figures. Shown above is an actual reading of 28. The specification minimum given under Coil Test was 22.

COIL TESTING

Release Coil Tests Knob and clip test Probe lead to either convenient Coil Primary Terminal. If more Convenient it may be clipped directly to the most convenient Red or Black Test Clip. Hold Coil Tests Knob "ON". Using the Test Probe, explore all insulation on coil for evidence of secondary leakage

Secondary leakage will be shown by sparking and current travel to the test Probe. METER will also show the leakage by reading lower. This condition indicates defective Coil.

Secondary Leakage may be caused by moisture, carbon tracks, dirt and generally weak insulation. If Coil is mounted on engine or vehicle, the Test for Insulation Leakage can be carried right on through Distributor Cap and Ignition Cables to Spark Plugs.

GAP INDEX TEST

(Do not make this test on a METAL BENCH.)

This test uses practically the same procedure as the regular Coil Firing Test, except that the Coil Index setting is now called the Gap Index setting and the coil secondary is connected to and fires across the spark gap on the tester.

Connect coil secondary to spark gap, using high tension lead and test probe.

Look-up the Gap Index setting and use this figure to set the Coil Index as described on page 5 of this manual.

Fire the coil as described under Coil Firing Test on page 6.

Spark must jump the spark gap regularly. Observe the METER pointer. Regular firing is indicated by a steady pointer. The reading of the METER pointer is not important as long as the pointer remains steady. Missing or failure to jump the gap indicates a defective coil. Before discarding coil, make sure the spark gap points on the tester are clean. If you use a longer test probe lead than the one supplied with the tester, add a few points to the gap index specification (3 to 5) to compensate for the longer lead.

Keep the spark gap clean, using a soft brush or cloth. do mot use abrasive materials. The electrodes are made of stainless steel and are factory set to close tolerances.

It is suggested you keep a coil on hand as a "standard" with the "Gap Index" reading carefully recorded. By running the coil over the tester occasionally, you will be able to note any changes in Gap index due to dirt, humidity or other causes and compensate accordingly.

Some coils have two secondary terminals. On coils of this type it is necessary to ground first one secondary terminal and then the other when making Gap Index tests. The ungrounded secondary is connected to the spark gap on the tester and it should fire gap at given Gap Index specification.

COIL TESTING

COIL TESTS GENERAL

Testing Secondary continuity - Secondary attached to Case - Indicated by an *asterisk in the type designation. Refer to the illustration of Secondary continuity test and specifications.

Attach or hold test clip to secondary terminal. Attach remaining test Clip to case. Polarity need not be observed unless specified. METER reading must be under the maximum specification.

Transfer Test Clip from Secondary terminal to either Primary Terminal. Any METER reading now indicates Primary is shorted to case.

Transfer Test Clip from case to remaining Primary Terminal. Connect either Primary Terminal to the case with a jumper lead. This will Ground the Secondary into the circuit for later tests.

Magneto coils are always tested with the cord "in" and are generally removed from the Magneto or stator Plate. A few exceptions to this general rule are noted in the specifications.

It is possible to get a "general idea" of the condition of a coil before it is removed but unless specific instructions and specifications have been furnished by the Manufacturer, results will depend mainly on individual experience and skill of the operator.

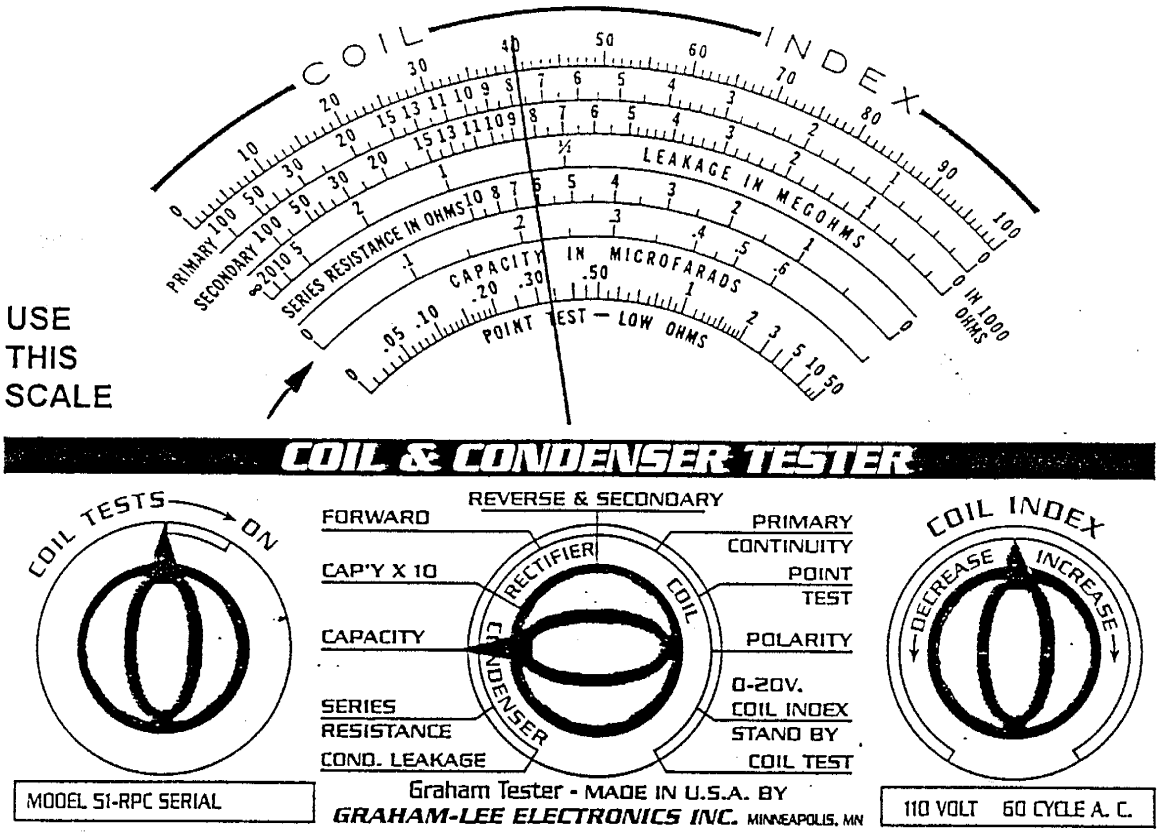
1. COIL TEST AMPLIFIER

The Coil Test Amplifier button on the tester has been added to provide a better test on those coils where the normal coil test reading is less then "12" as read on the top meter scale.

DO NOT PRESS BUTTON on Coil Index position or when normal meter reading is higher than "14".

Press "Amplifier" button only on Coil Test and then only when normal meter reading is below "14". The specifications for "Coil Test" in the specification book will indicate when "Amplified" reading should be used.

CONDENSER TESTING



CAPACITY

Turn Scale Selector Switch to "CAPACITY" position. After this is done, attach one test clip to condenser terminal. Attach the other Test Clip to bracket on body of Condenser. Lay Condenser with clips attached on any dry insulated surface.

Capacity is read directly in Micro-farads. The METER illustrated above reads .22 (twenty two hundredths) Micro-farad.

An open condenser will be indicated by no reading. If condenser passes next two tests of Series Resistance and Condenser Leakage, it may be assumed that its capacity has not changed.

Sometimes a condenser may be of the capacity specified but the type of service may indicate a condenser of another capacity should be used. For instance, if an automobile is used in taxicab service with lots of engine idling time, the capacity of the condenser should be higher than when the same vehicle is used mainly for high speed driving.

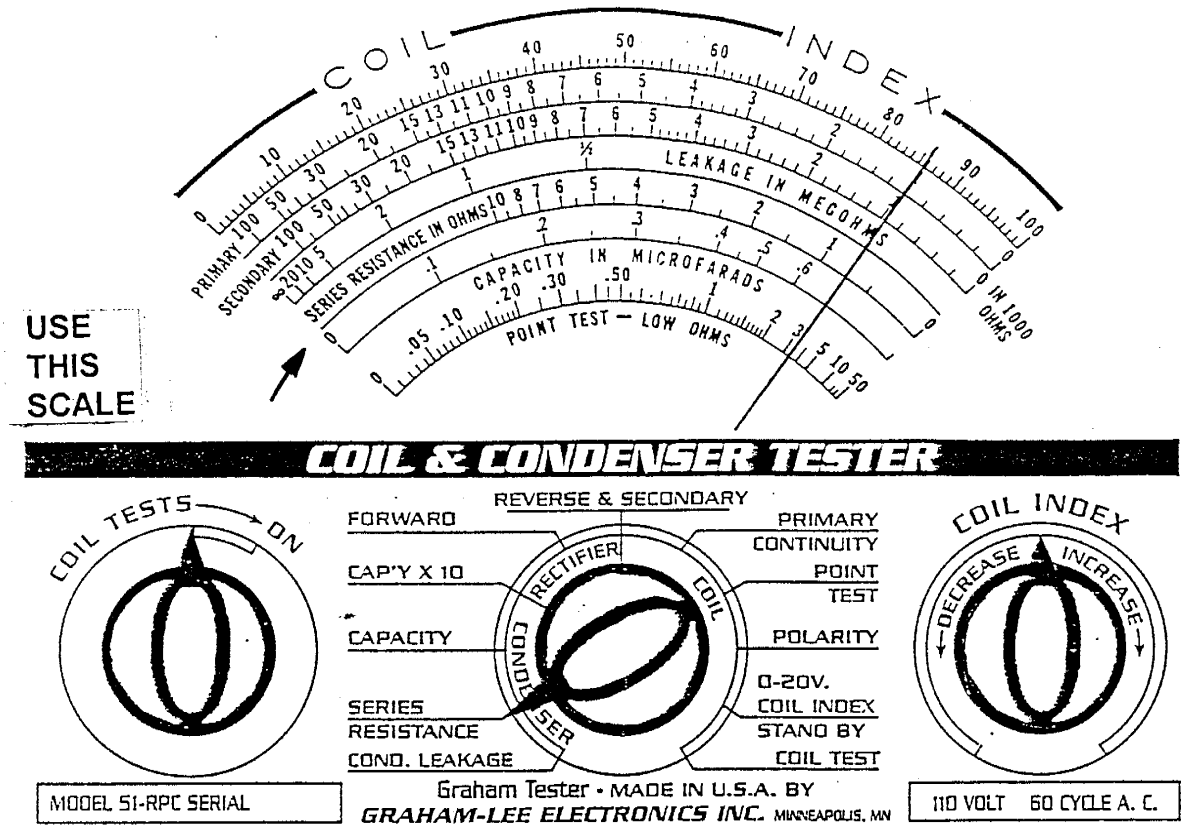
An examination of the breaker points will indicate when a slightly different capacity condenser should be installed. If the negative breaker point is losing material or has a crater , the condenser capacity is too small. It the positive point is the one losing material, the capacity is too large.

TESTING CONDENSER IN DISTRIBUTOR OR MAGNETO

Disconnect Condenser from Primary circuit, either at terminal or ground. If opened at ground, insulate the condenser body from the housing during tests. It is true that condensers may be tested by opening the breaker points alone, but results are not reliable.

Attach one test Clip to condenser terminal and attach other test clip to condenser case and use regular procedures in testing.

CONDENSER TESTING



SERIES RESISTANCE

With the connections made for CAPACITY test, turn selector switch to "SERIES RESISTANCE." Press the "PRESS FOR SERIES RESISTANCE" black push button. Hold the button for a few seconds (a count of ten). Take the reading. **CAUTION — PRESS BLACK BUTTON ONLY WHILE MAKING THIS TEST, RELEASE BEFORE ANY CHANGES.**

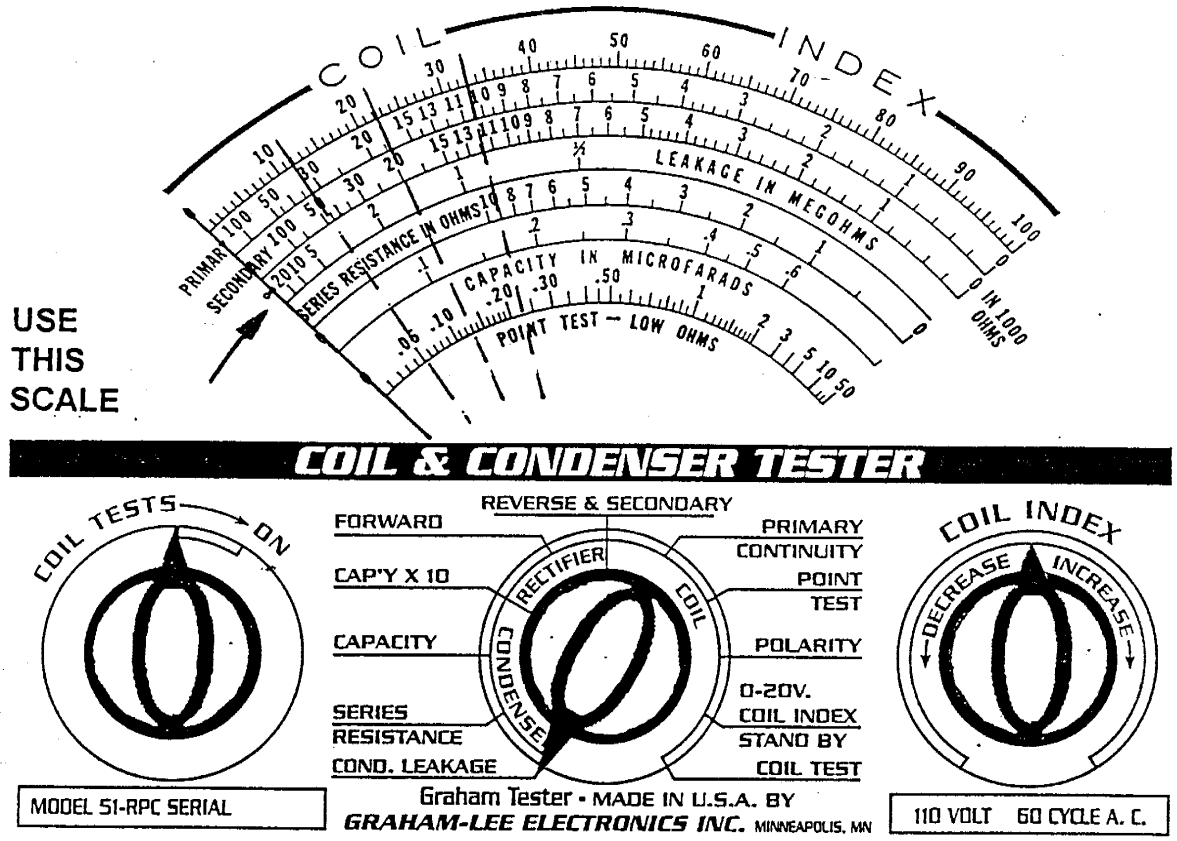
Normal automotive and magneto condensers will show a METER reading of 1/2 to 3/4 OHMS. METER, illustrated above, reads 3/4 Ohms. METER readings over 1 Ohm indicates high series resistance, the condenser should be replaced.

Series resistance is an important test and must not be confused with the condenser leakage test, where the results are also given in terms of resistance.

The SERIES RESISTANCE test uses an oscillating circuit tuned to approximately 1.600 Kilocycles. The METER readings indicate any resistance to the flow of current into and out of the condenser. Sometimes a condenser will fail on first SERIES RESISTANCE test and, after passing leakage test will then pass on a second test of series resistance. Do not be confused by this. The condenser should still be discarded. Just be sure the tester itself is properly zeroed in for the first test. Any high series resistance indication will then be in the condenser.

After long use or storage, the leakage test will sometimes "clear" high resistance contacts in the test clips or inside the tester. This will be indicated by the series resistance being thrown off "zero" after making leakage test. The remedy is to clean the switch contacts and clips with a good spray type cleaner. Regardless of such conditions inside the tester, the reading on series resistance test will be correct if the "zero" adjustment is known to be on "zero" (100) before going to the leakage test.

CONDENSER TESTING



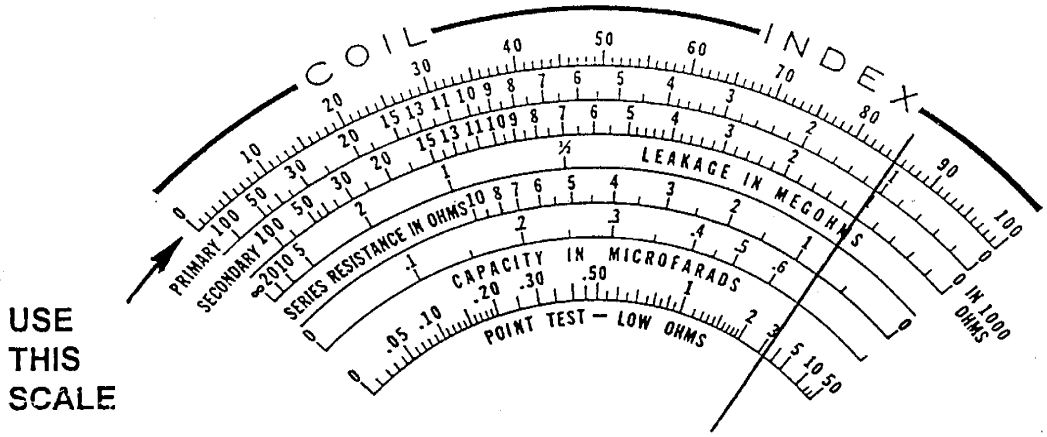
CONDENSER LEAKAGE

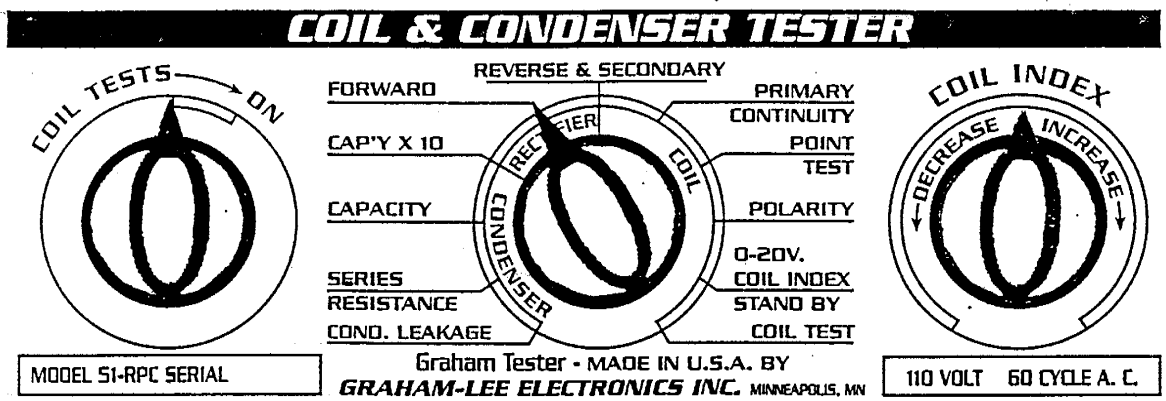
Without disturbing connections after Series Resistance Test, turn selector switch to "CONDENSER LEAKAGE." METER will come to rest at some point on the "leakage in Megohms" scale which will indicate the amount of insulation resistance to leakage. A shorted condenser will cause the METER pointer reading to the extreme right.

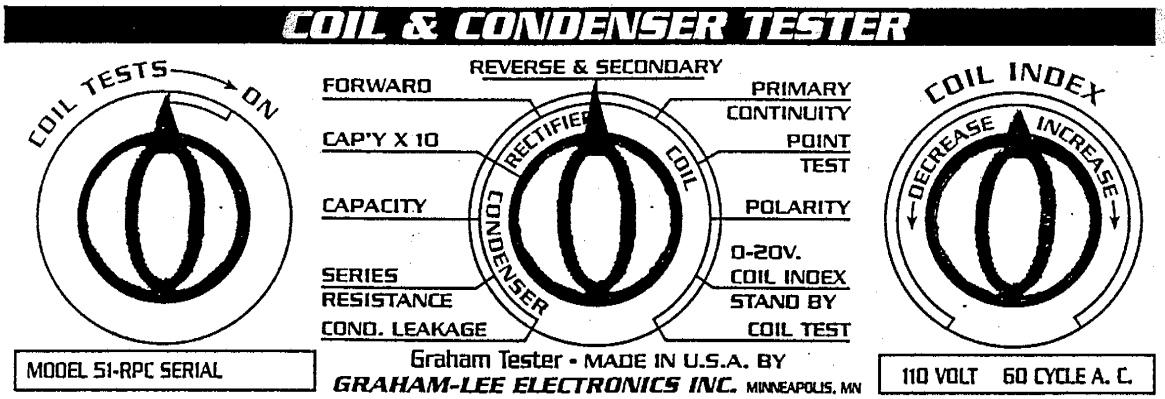
Measurements in the CONDENSER LEAKAGE test are made with a high voltage, filtered direct current. METER readings are in Megaohms (millions of ohms) and indicate the amount of resistance in the insulation, to the passage of current between the terminal side of the condenser and case. This insulation consists of the paper between the foil layers, the impregnating compound and the bushing where the terminal comes out.

A Good Condenser, at room temperature (80 degrees F) is indicated by the METER pointer returning to between 20 megaohms and (infinity) as the Condenser becomes fully charged. If the METER shows reading of less than 20 megaohms, the condenser should be heated and re-tested. Heat it by the best means available to operating temperature (about 180 degrees F). A hair dryer on high for several minutes should be sufficient If it is inconvenient or impossible to heat the condenser, it should be replaced. After heating, the Condenser should show resistance equal to or higher than that called for in the specifications. Where no figure is given a minimum resistance of 2 Megohms may be used.

Turning Selector switch off CONDENSER LEAKAGE in either direction drains off the high voltage charge so that condenser will not contain any charge.







RECTIFIER TESTS

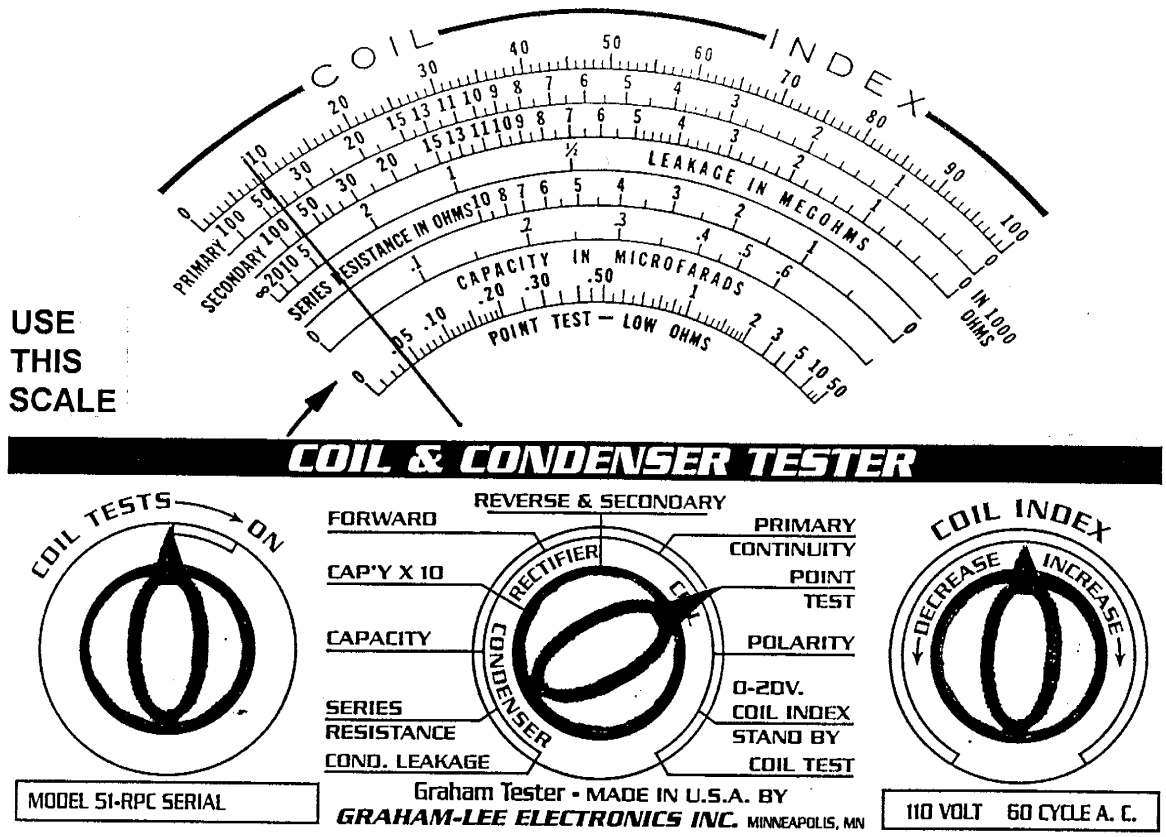
(Model 51-R, 51-RP, 51-RPC)

FORWARD test - Turn Selector switch to "FORWARD". Connect test clips so METER reads up. The better the rectifier, the higher the reading on top METER scale.

Alternating current is applied at the test leads. When testing full wave type rectifiers, test one side at a time. Both sides must test "good". Suggested minimum on top scale - 85.

REVERSE Test - Without changing connections, turn selector switch to "REVERSE".

On this test direct current is applied at the test leads. To set "zero", clip leads together and adjust proper potentiometer at back of tester so METER reads "100". Test clips are connected the same as for FORWARD test. Make FORWARD test first to determine correct polarity. Suggested Maximum on top scale for this test is "85". This is for the larger plate type rectifiers. For the smaller rectifiers and diodes, the maximum will be much lower - in some cases 5 may be the maximum permissible.



POINT TEST

(Optional on Models 51, 51-R, 51-RPC)

If a "POINT TEST" position is included, it will be placed in the switch position originally used for "STANDBY". Use the "COIL INDEX" switch position for "STANDBY" position.

Caution - Do not connect test clips to a source of voltage on this test. Be sure ignition switch is off.

1. Turn selector switch to "POINT TEST" with test clips not connected to anything.
2. METER will read toward the "100" end. Adjust POINT TEST zero adjust knob at back of tester so METER reads "100" on top scale.
3. Connect test clips across breaker points. Resistance will be shown on "POINT TEST - Low Ohms" METER scale. With breaker points closed, the METER should read at or below the manufacturer's maximum resistance limit. In the absence of any other recommendation, .04 ohms is suggested as maximum limit.

NOTE: Test clips must be clean and free of corrosion. Check by clipping them together. METER reading should drop to within one division of zero. The closer to zero the better.

New breaker points, even after thorough cleaning, will sometimes have a high resistance film. It is recommended the points be buffed, polished, stoned or filed as recommendation in this respect.

Sometimes it may be desired to fire the coil through the breaker points. If this is done, be sure any cleaner used is wiped away from the points. Any residue left on the points will burn to carbon when fired by the tester or when the engine is started.

The tester may be used to fire the coil through the points with the selector switch turned to "COIL TEST" position and "COIL INDEX" at the setting recommended for coil. If this does not "clear" points, push them apart with a non-conductor while the coil is being fired.

IGNITION TIMING

With Test Leads connected across the breaker points and Selector Switch in "POINT TEST" position, breaker point opening is indicated by the METER Pointer jumping toward "100".

On those units which do not have "POINT TEST", turn selector switch to "PRIMARY CONTINUITY". When breaker points open, the METER Pointer will jump from "100" to the left to indicate Primary resistance of coil on the blue "PRIMARY CONTINUITY" scale.

When it is desired to check ignition timing on small engines and it is not convenient to contact the breaker point terminal or the primary lead wire, the test leads may be connected to spark plug and ground. Then turn selector switch to "capacity" position. When breaker points open the capacity reading will drop from three to five points and when breaker points close, the reading will increase.

CAUTION - Do not do this on battery ignition unless battery is disconnected nor on magneto systems with impulse coupling. The engine should be turned slowly so a high secondary voltage is not created.

NOTE - Many other tests can be made in addition to checking timing. This "Point Test" Position can be used anywhere a low reading ohmmeter is desirable, such as checking switches. ground connections, lead terminal contact, solder points, generator and starter coils, relay coils and contacts etc.

VOLTMETER

When selector switch is in the position marked "0-20V", the tester METER may be used as a 0-20 volt DC. voltmeter. The Red Clip is positive and the Black Clip is negative voltmeter lead. Voltage readings may be taken with the tester switch either "on" or "off". In other words, tester may be warming up for other tests while voltage readings are being taken.

CAUTION: Do not turn SELECTOR SWITCH when leads are connected to a source of voltage. Also, do not connect leads to a source of voltage when setting Coil Index witch is on same selector switch position.

When calibrated at 0-20 volts, the METER will read full scale (100) at 20 volts DC. to take a voltage reading, divide the reading on the top METER scale by 5. Thus a reading of 50 on the METER is 10 volts, 60 is 12 volts, 70 is 14 volts. Each METER division on the top scale represents 1/5 volt when tester is being used as a voltmeter.

If you prefer some other voltage range such as 1 volt, 10 volts, 30 volts, etc. write factory for information.

TRIGGER PACK

Certain other solid state ignition units require a "Trigger" in order to be fired after the sealed in capacitor has been charged. "Trigger Pack" is mounted at the back of the Graham Tester. Instruction on the use of the "Trigger Pack" for thses CD units are found in the Specifications Appendex I

SERVICE AND REPAIRS

Write the Factory, at once, if any trouble or unusual problem develops which may not be covered in this manual. Instructions on what to do will be sent immediately.

MAINTENANCE - GENERAL

Tubes have been carefully selected for the duties they are to perform and long life can be expected from them. However tubes can fail so the following information is included for easy checking. Oscillator tube is a 6J5 or 6J5GT. Failure of this tube may be suspected when the Series Resistance test cannot be calibrated within the range of adjustment available at the rear control. Testing the oscillator tube may be done on any good commercial tube tester or by substitution of new tube. Turn the tester "OFF" and follow the diagram when removing or replacing tubes.

METER is a precision, jeweled movement and ordinarily requires little attention. METER pointer should line up with 0 on the left hand end of the Coil index scale when tester is turned "OFF". Any correction here is made by very carefully turning small adjustment screw, located over pointer pivot in lower center on METER case. Tap METER lightly as this is done.

It is not expected that the user will be called upon to make any major repairs. The above information has been set forth to assist in simple adjustment and calibration of the unit. In event Tester develops trouble, not readily remedied, write the Factory at once. Give serial number, where purchased and nature of difficulty. Complete information will help the Factory determine the best way to correct the trouble, with the least delay to the user.

CALIBRATION

Calibration is a normal process to insure the contined accurate opertion of the Testor. This proceedur should be preformed periodiaclly depending on equipment use. Monthly calibration is recommended for average users. Equipment used infrequently should be checked before use and adjustments made if required. The proceedure is simple and insures accurate measurements.

Set SELECTOR SWITCH to "STAND-BY" position. Turn "ON" the Testor and allow unit to warm up for at least 10 minutes.

Calibration of CAPACITY, CAPACITY x 10, SERIES RESISTANCE, LEAKAGE, SECONDARY CONTINUITY and PRIMARY CONTUNITY is as follows:

1. Short TEST CLIP together.
2. Turn SELECTOR SWITCH to "CAPACITY" and note METER reading.
3. Adjust "CAPACITY" control very slowly unitl the METER pointer lines up with the RIGHT HAND end of the METER scale.
4. Repeat with other tests listed above, finishing with PRIMARY CONTINUITY

Calibration of POINTS TEST is as follows.

1 Test Clip apart not touching anything.

2 Turn SELECTOR SWITCH to "POINTS TEST" and note METER reading.

3 Adjust "POINTS TEST" control very slowly unitl the METER pointer lines up the RIGHT HAND end of the METER scale. POINTS TEST equal to 50.

SPECIFICATION - GENERAL

Every effort is being constantly made to keep specifications complete and up-to-date. Some Coils are out of production and new types are always coming into production. As new specifications become available they will be furnished to Registered Users.

It is sometimes necessary to test Coils for which specification are not available. If time permits, write to the factory giving coil make and number and where used. Special effort will be made to forward the needed information.

If the job cannot wait:

(1) Take a duplicate Coil and carefully make readings of all tests and apply then to the Coil to be tested. Use Coil Index of 60.

(2) When no duplicate Coil is available, Test the Secondary and Primary for "opens and shorts" only. Use 60 for Coil index setting and use test probe to see if secondary delivers a good spark. Test for Secondary Leakage at the same time.

WARRANTY

The Model 51 Coil & Condenser Tester is guaranteed to be free from defects in material and workmanship for a period of twelve months, after date of original purchase by the user and when used in regular service work. Repairs or adjustments under the terms of this warranty, will be made by the Factory or designated repair agency at no charge, except for transportation to and from the Factory of designated repair agency. Written instructions, from the factory, must be secured before submitting a unit for service.

This warranty is voided if the unit has been subjected to abuse, accident, improper installation or neglect in storage, transportation or handling. or if a properly executed registration Card is not sent to the Factory, within thirty days after original purchase.

REGISTRATION CARD

It is important to register the ownership of the Model 51 Coil & Condenser Tester. This validates the warranty and enables the factory to send out additional information and specifications as they become available. There is no charge for this service during the first twelve months after the original purchase.

A Registration card is included with each new Model 51. If the card has been lost, write the Factory, giving the serial number, and where and when purchased. Do the same thing if the unit has been purchased second-hand.

FILL OUT AND MAIL THE REGISTRATION CARD TODAY!

COIL AND CONDENSOR

SPECIFICATIONS

TABLE 2 & 3

FOR ALL

GRAHAM MODELS

51, 51-A, 51-C,

51-RP, 51-RPC

COIL AND CONDENSOR TESTERS

Graham - Lee

Electronics, Inc.
11142 Grover Avenue SW
Howard Lake, MN 55349
Ph. 612-921-9437 or 800-343-1344

Fax. 612-921-9437

GRAHAM-LEE
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COIL LISTING

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
AMERICAN BOSCH						
CL 51172		.8	50	15		
CL 521001	12000	1.5	65	36	65	
CL 521005	10000	1.3	60	28	60	
CL 521022A	[1]					
CL 521043A	10000	1.3	75	33	95	
CL 52107	10000	1.6	75	38	60	MJB & MRA
CL 52109	7500	1.0	60	26	65	MJA
CL 52112	8000	1.5	75	45	75	MJK
CL 52118	10000	1.6	75	38	60	MJB & MRA
CL 52128	9000	.8	65	38	65	
CL 52134	8000	1.3	75	36	65	MJH
CL 52137	8000	1.3	75	31	60	MJH & MRD
CL 52143	8000	1.3	75	36	65	MRD
CL 52144	8000	1.5	75	45	75	MJK
CL 52145A	8000	1.3	75	36	65	MRE
CL 52159		.8	60	20		MRB
CL 52162		.9	60	21		MSB
CL 52163		.6	60	17		MJA
CL 52164	10000	1.3	60	26	70	MRA
CL 52166	10000	1.4	70	40	70	MJC
CL 523	8000	1.2	65	32	60	MJA
CL 5231	8500	1.4	80	40	65	MJC
CL 5238	10000	1.4	70	40	70	MJC
CL 524	10000	1.6	75	32	60	MJB
CL 5244	8000	1,4	75	31	60	MJD
CL 5246	8000	1.3	70	34	55	MVA
CL 528	10000	1.6	80	41	60	MJC
CL 529	7500	1.2	80	38	60	MJA
CL 5298	8000	1.5	75	45	75	MJK
CL 6AA5	9000	2.6	60	36	60	
CLC 12A-5S	10000	7.5	60	33	60	
CLC 6A5-S	9000	2.6	60	36	60	
CLM 12	10000	10	70	38	75	Battery
CLM 6B1	20000	4	60	29	70	
CLM 80 F1 [2]	100000	3.6[3]	60	27	60	[4]
CLS 12A1	14000	20	65	44	65	
CLT 10	10000	18	65	40	60	
CLT 40A	10000	40	55	33	60	
TC 22 (S & U)	5000	2.2	60	30	60	Battery
TC 51 (A-B-C-D)	6000	2.2	60	31	65	Battery
TC 612	9000	6.2	70	40	65	Battery
TC 69U	6000	2	60	31	65	Battery

[1]Single winding only - approximately 75 ohms nominal DC Seconday Continuity or Condenser Leakage circuit.
[2]Do not test on Model 31
[3]Between two secondary terminals.
[4]Black clip to LT+, Red clip to LT-

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
TC 71 (A-B-C)	6000	2.3	60	32	60	Battery
TC 81	5000	2.2	60	34	60	Battery
TC 83	8000	1.9	60	34	60	Battery
TCA 35A1	25000	1.1	45	7[5]	45	
TCD 90A4	7500	.5	50	9[6]	50	
TCF 12	14000	20	65	44	65	
TCG 90B4	20000	.5	50	20	50	[7]
TCG 90C1	20000	.5	50	20	50	[8]
TCL 150A1[9]	15000	.6	45	40 Amplified	45	
WC 73360	8000	3.0	70	34	70	DU & ZR
WC 74792	7500	3.0	70	34	70	AT 4-6
WC 79444	6500	4.2	60	31	60	U 6
WC 82913	6500	4.3	60	31	60	U 4
ARCTIC CAT SNOWMOBILES						MAX PRIMARY CD OHMS (POINT TEST)
3000-912	10000	11	60	34	55	1.2
3000-951	10000	10	60	24	55	
3001-067	20000	1.3	50	14	45[10]	.55
AUTO LITE						
CAB 12 VOLT 1955 INDUSTRIAL	7000	9.5	85	51	77	
CAC 6 VOLT 1955 CHRYSLER	10500	2.1	50	22	43	
CAD 12 VOLT 1955 PACKARD	10500	3.7[11]	55	32	48	
CAD 12 VOLT 1955 CHRYSLER	10500	4.2	55	32	48	
CAE Coils	11000	4.6	60	36	50	
CAF 12 VOLT	9000	9.0	80	48	70	
CAG 12 VOLT	7000	10.0	75	44	70	
CAH 12 VOLT	12000	3.7[12]	50	27	50	
CAL-4001	10000	2.5	50	28	50	
CAM-4001	12000	2.0[12] 2.3[13]	50	22	50	
CE 6 VOLT	5000	2.3	60	28	48	
CF 6 VOLT	5500	8.0	85	52	67	
CL 6 VOLT	4000	2.7	70	40	55	

[5]65 Amplified
[6]This is normal minimum reading with coil unmounted. Using Coil Test Amplifier on those testers so equipped minimum amplified reading is 100. Don not use Coil Test with coil mounted in its holding bracket, normal minimum reading on coil test is 5 or 55 minimum using coil Test Amplifier.
[7]Polarity reads "up scale" ;with black clip on + and red clip on -
[8]Polarity reads "up scale" ;with black clip on + and red clip on -
[9]Black clip on #1, red clip on #2, #3 is other end of sedondary
[10]One end of secondary must be grounded to most convenient primary terminal
[11]3.7 Ohms measured directly through primary; 4.6 including resistance unit on case
[12]Less Ballast
[13]With Ballast

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
CM 12 VOLT	7000	7.0	85	55	72	
CO 24 VOLT	7000[14]	7.5	80	48	80	
CP 12 VOLT	7500[15]	7.5[15]	80	48	75	
CR 6 VOLT	7500	2.6	60	32	48	
CT 24 VOLT	11000	30	70	51	80	
IG 6 VOLT	4000	2.9	75	45	58	
200574	12000	7.8	65	37	55	
200575	12000	3.9	60	27	50	
200577	12000	3.1	60	28	50	
200668	14000	4.2	60	29	50	

BENDIX

2-751	7000					VAG SERIES
10-2160	8000					C SERIES
10-2160Z	8000					C SERIES
10-2160Y	8000					C SERIES
10-2160W	8000	1.5	65	30		C SERIES
10-6710	6000					AV4-6, NV4-6
10-6730	6000					AU8-NV8
10-8548	7500					PA-PB--PC
10-13623Y	9000	.7	60	25	45	
10-13625Z	7000	2.0	65	25		
10-13760	8000					C SERIES
10-13825Y	4500					OA SERIES
10-14856	7000					VMN SERIES
10-14917Y	8000					S1 SERIES
10-155544Y	4500					OA SERIES
10-15829	7500	1.5	65	25		P SERIES
10-15829Z	7500					P SERIES
10-15829Y	7500	1.5	65	25		P SERIES
10-15829W	7500					P SERIES
10-15829V	7500	1.5	65	15		P SERIES
10-16585Y						OA SERIES
10-17288	8000	1.5	65	30		C SERIES
10-17970	8000					LA SERIES
10-20776Y						OA SERIES
10-21917	4500	1.5	60	27		OA SERIES
10-21917Y						OA SERIES
10-38222[16]	8000	2.2	70	36	70	K SERIES
10-38222[17]	8000	1.0	70	36	70	K SERIES
10-38222Y[17]	8000	2.2	70	36	70	K SERIES
10-38222Y[18]	8000	1.0	70	36	70	K SERIES
10-50210						K SERIES
10-50226	4500	1.5	60	31		OA SERIES
10-50715	7500	2.0	70	43		K SERIES
10-51303	8500	2.0	60	36		S400 SERIES
10-51661						K SERIES
10-53128	4500	1.5	75	36		OA SERIES

[14]Secondary ground attached to case
[15]7.5 Ohms measured directly through primary; 8.0 including resistance unit on case
[16]On Stator Plate
[17]Off Stator Plate

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
10-54007	5000	2.0	65	32		H SERIES
10-54970	6000					K SERIES
10-56108	2300					K SERIES
10-57460	7200					LAR SERIES
10-5L7460-1	7500	3.0	60	30	50	LAR SERIES
10-60676A	4500	1.5	75	36		
10-70100[17]	6000	1.6	85	33	85	
10-70100[18]	6000	1.0	85	30	85	
10-70128	5000	1.2	75	25	85	
10-L70132	5000	1.0	75	26	85	
10-70161	2500	.8	70	15	95	K SERIES
10-70169	5000	.95	75	27	95	K SERIES
10-70199[18]	2000					K SERIES
10-76384	8500	2.0	60	36		
10-77334	3400					H2 SERIES
10-77379	3700	1.2	70	21	100	H1 SERIES
10-79157	3700	.8	70	12	95	K SERIES
10-79290	17000	8.5	55	28	55	
10-81707	9000	35	60	34	90	
10-81707	7000					VAG SERIES
10-82215	4500					K SERIES
10-82241[19]	3700	.8	70	15	95	K SERIES
10-84356Y	4700	.8	70	16	55	
10-94097	5000	1.0	70	23	85	
10-102902	5000	1.0	70	23	85	
10-160396	5000	.95	75	27	95	
10-160886	25000	1.1	55	27	55	
10-160887	25000	1.1	55	27	55	
10-163297[20]						
10-171248[21]						
10-171323-1	30000	3.7	60	36	60	
10-320790-1	10000	3.0	55	31	55	2.0 Max. Primary DC Ohms
10-349271	30000	3.8	70	49	65	
10-349750	10000[22]	.3	50	18[23]	50[24]	D-2000 SERIES 2.0 Max. Primary DC Ohms
10-357165	25000	1.4	60	30	55	
10-372385	10000	.4	50	18[24]	50	D-2000 SERIES 2.0 Max. Primary DC Ohms
10-382588	15000	1.3	65	34	65	D-2000 SERIES 2.0 Max. Primary DC Ohms
10-382790	25000	3.0	65	34	65	D-2000 SERIES 2.0 Max. Primary DC Ohms

[18]See 10-82241
[19]Replaces 10-70199
[20]Only one heavy winding in this coil. Make continuity check only.
[21]A lighting coil check for continuity only (about 3.5 ;ohms on Primary Continuity Scale.)
[22]Between secondary and GND terminal
[23]Amplified
[24]Attached jumper lead from GND terminal to one primary terminal

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
REFERENCE NUMBER						
#1	10,000	8.5	55	30	65	

*On Stator Plate ** Off Stator Plate *** Replaces 10-70199

BRIGGS & STRATTON

Part Number	Spec No	Models Used On
29656	#1	A, B, H, HM, K, Y, Z &ZZ
29657	#1	FH, FI, FG, FJ, L, M, PB, Q, R, S, T,&W
29671	#2	N, I, IBP, NS, U, WI, WM & WMI
290880	#3	9, 14, 19, 23, 23A, 191400 & 231400
291617	#2	60100, 60200, 60300, 60400, 60500, 60700, 60900, 61100, 61200, 61300, 61400, 61500 61700, 61900, 80100, 80300, 80400, 80500, 80700, 80900, 81100, 81300, 81400, 81500 81700, 81900, 5, 5S, 6, 6A-H, 6A-HS, 6B, 6B-H, 6B-S, 6B-HS, 6H, 6HF, 6HS, 6HSF, 6-S, 8 8A-HF, 8B, 8B-H, 8B-HA, 8HF, N, WI, &WMB
292184	#2	6, 8, 6B, & N
292640	#4	9, 14FB & 23FB
292650	#4	9, 14 & 23
293013	#4	9, 14, 19, 23A, 191400 & 231400
293289	#1	A, B, & ZZ
293431	#5	23A & 231400
294319	#2	6B
295680	#2	60300, 60400, 80700 & 8B
295845	#2	141000 & 14300
295915[25]	#6	60300 & 61300
296084	#5	80302
296171	#2	80600, 80800, 81600, 81800, 84502, 85502 & 85902
296703	#2	140000, 141000, 142000 & 143000
296834	#2	140200, 140300, 140700, 141200, 141300, 141400, 141700, 142700, 143300, 143400, 143700, 19D, 23C & 23D
296858	#2	60000 &80000
297307	#7	60500, 60700, 61500 & 61700
297320	#2	140300, 141300 & 141400
267594	#2	100200 & 100900
298274	#7	60300 & 80400
298316	#7	100200, 100900, 130200 & 130900
298502	#7	60100, 60200, 60300, 60400, 60900, 61100, 61200, 61300, 61400, 61900, 80100, 80300, 80400, 80500, 80700, 81100, 81300, 81400, 81500, 81700, 82500, 82900, 92500, 92900, 110900, 111200 & 111900
298443	#7	60000 & 80000
298524	#7	100200 & 100900
298654	#8	80300, 80400 & 81400
298968	#8	144200, 144400, 144700, 145200, 145400, 145700, 146400, 146700, 147400, 147700, 170400, 170700, 171700, 090400, 190700, 191700, 193400, 200400, 302400, 320400, 325400 & 326400
299366	#7	144400, 146400 &170400
299700	#8	200400 & 233400

[25] Part Numbers 295915 & 298654 have dual Secondaries. Therefore, when testing for secondary continuity and coil test, it is necessary to ground one of the secondary liads to the armature laminations. Test second lead the same way.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
#2	7,500	1.5	55	14	65	
#3	10,000	2.0	65	40	65	
#4	10,000	7.0	80	36	70	
#5	9,000	1.6	60	35	55[26]	
#6	7,500	1.1	55	18	60	
#7	4,000	1.0	55	14	60	
#8	5,600	1.0	50	16	60	

27

BUNDY MARINE

81-0505-0140	30	7.0	70	41	75	
81-0505-0170						

28

J. I. CASE CO.

JM	10,000	1.0	60	34	60	COIL OUT OF MAG.
JM	10,000	2.6	60	26	60	COIL IN MAG
CM	12,000	1.0	60	29	60	COIL IN MAG
7-41A	10,300	1.5	60	33	60	COIL OUT OF MAG
7-41A	10,300	3.0	60	20	60	COIL IN MAG
15-41A	10,000	1.0	60	40	60	COIL OUT OF MAG
15-41A	10,000	2.0	60	18	60	COIL IN MAG
11-46A	10,300	1.5	60	33	60	COIL OUT OF MAG
11-46A	10,300	3.0	60	20	60	COIL IN MAG
m-1073[29]	10,300	1.5	60	33	60	COIL OUT OF MAG
m-1073[30]	10,300	3.0	60	20	60	COIL IN MAG

CHRYSLER MOPAR COIL

2945531	15,000	4.2	60	29	55	

CHRYSLER OUTBOARD

						"POINTS TEST" PRIMARY DC OHMS MAXIMUM
12057	15,000	1.3	75	31	75	.9
12211	15,000	1.2	65	16	65	.8
12226	15,000	1.2	65	19	65	.8
A12231	15,000	1.2	65	19	65	.8
12345	15,000	1.2	65	19	65	.8

---

[26] One end of secondary connected to primary

[27] Note: Keep coil secondary lead (Ignition Cable) at least one inch away from all other wires and surfaces during "coil test". When making above tests, coil must be separated at least three inches from other couls or metal objects including metal bench top.

[28] Diodes on stator plate-stamdard test

[29] This coil used in both 400 and 600 Series Jump-Spark Magnetos

[30] This coil used in both 400 and 600 Series Jump-Spark Magnetos

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
P-254	8000	2.6	75	28	70	
135-19-500	5700	1.4	75	17	60	
135-8-500	5700	1.4	75	17	60	
135-230-500	5700	1.4	75	17	60	
135-19-500	8000	2.6	75	28	70	
135-281-000[32]	8000	2.6	75	28	70	
CUSHMAN MOTORS						
378231 if autolite or prestolite 200668	14000	4.2	60	29	50	
If delco-remy 1115153	10000	4.2	60	30	50	
580346	7500	1.5	50	20	65	
580380	25000	2.2	50	27	50*	
Phelon FG-1070	7500	2.0	75	24	70	all scotter engines used alternately since 60 series.
Wico X-4943 & X-4943-F	5500	2.0	55	18	50 & 60	series scooters and all commercial engines
Wico X-11856	7500	1.3	50	13	70	Used on scooters enginer 1959 &1960
Cushman 383444	10000	3.0	55	28	50	
Motorcraft D2AF-12020-AA	10000	3.0	55	28	50	
Cushman 58346	7500	1.5	50	20	65	
DECO-GRAND INC (formerly CONTINENTAL MOTORS)						
Bendix 10-38222Y	8000	1.0	70	36	70 Off stator plate	
Scintilla k1-1 10-38222Y	8000	2.2	70	36	70 On stator plate	
AA7M-3001 Wico X-6111	5000	2.1	50	18	65	
Wico FW AA7M3260 Smith	6000	1.2	60	18	65	
Wico FW X-6718	5000	1.5	50	17	70	
Wico FW X-7536	8000	1.2	60	17	70	
Phelon F-724 FG-463B	7500	2.0	75	17	70	
Deco-Grand No. AA7-M-3500	10000	1.5	75	22	70	

[32]Note: Test Specifications are given for coil mounted on magneto core and can be taken sith magneto on engine.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
12348	15,000	1.8	60	18	70	1.3
12358	15,000	1.8	60	18	70	1.3
A85475-2	25,000	4.5	80	46	60	5.0
2A91475-2	15,000	7.0	70	40	70	6.0
316475	25,000	4.5	80	46	60	5.0
321475-1	1,500	.3	80	9*	80** in ign unit	.10
				75* amp	75** out of unit	
345475-1	1,500	.8	65	50 amp	65	.5
474475***	1,500	.3	65	40 amp	75***	.15
510475	1,000	.3	50	29 amp	50	.07

[31]

CLINTON MACHINE CO

P-5502	5700	1.4	75	17	60
P-5509	5700	1.4	75	17	60
P-5531	5700	1.4	75	17	60
P-5538	5700	1.4	75	17	60
P-5545	5700	1.4	75	17	60
P-5563	17000	1.7	75	34	50
P-5593	5700	1.4	75	17	60
P-5733	5700	1.4	75	17	60
P-5770	5700	1.4	75	17	60
P-25313	8300	1.4	75	26	55
135-17-500	5700	1.4	75	17	60
135-167	5700	1.4	75	17	60
135-19-500	5700	1.4	75	17	60
135-169	5700	1.4	75	17	60
135-19-500	5700	1.4	75	17	60
135-22-500	17000	1.7	75	34	50
135-23-500	5700	1.4	75	17	60
135-10-500	5700	1.4	75	17	60
135-13-990	5700	1.4	75	17	60
135-15-500	8300	1.4	75	26	55

CLINTON MACHINE CO

Chain Saws & Outboards

P-513	5700	1.4	75	17	60
P400467	5700	1.4	75	17	60
P400789	5700	1.4	75	17	60

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[31] * If transformer is mounted in ignition unit, remove wires from primary terminals for this test.
** "G" terminal on transformer must be grounded to one of the primary terminals for this test. If test is made with transformer mounted in ignition unit, remove ignition unit wires from primary terminals for this test.
*** for coil tests of number 474475-1, connect black test clip to primary "+" and red test clip to primary "-".
****Maximum Gap Index means coil must fire tester spark gap at this coil index setting or less.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
Delco Remy						
526-528-533	20000	2.8	55	26	55	
534-536-538	20000	2.8	55	26	55	
528D*	20000	2.8	55	26	55	
539 Series	20000	2.7	50	23	50	
553	20000	2.8	55	26	55	
1112203 (coil part only)	9000	1.5	60	29	50	
1115011-12	20000	2.8	55	26	55	
1115021 to 30	20000	2.8	55	26	55	
1115032	20000	12.0	65	38	65	
1115033	20000	8.1	55	30	55	
1115034	20000	12.0	65	38	65	
1115036	20000	3.5	50	25	50	
1115037	20000	5.0	50	23	55	
1115038	20000	3.5	50	25	50	
1115039	20000	3.5	50	25	50	
1115042 to 58	20000	12.0	65	38	65	
1115060 -61	20000	7.0	75	39	75	
1115062	20000	8.1	55	30	55	
1115064	20000	7.0	75	39	75	
1115065-66-67	20000	7.3	55	28	50	
1115068-69-70	20000	8.0	65	37	65	
1115071	20000	8.1	55	30	55	
1115072	20000	8.0	65	37	65	
1115073	20000	40.0	60	35	60	
1115074	20000	2.4	50	17	50	
1115075	20000	12.0	65	38	65	
1115076 to 79	20000	12.0	65	38	65	
1115081 to 85	20000	3.5	50	25	50	
1115086	20000	3.5	50	25	50	
1115087 to 90	20000	3.5	50	25	50	
1115091	20000	3.5	50	25	50	
1115092 to 98	20000	3.5	50	25	50	
1115099	20000	3.5	50	25	50	
1115100	20000	3.5	50	25	50	
1115101 to 3	20000	2.7	50	23	50	
1115104 to 12	20000	3.5	50	25	50	
1115114 to 16	20000	3.5	50	25	50	
1115118 to 25	20000	3.5	50	25	50	
1115126 to 30	20000	2.7	60	23	60	
1115131 to 34	20000	5.0	50	23	55	
1115135 to 37	20000	3.5	50	25	50	
1115139	20000	3.5	50	25	50	
1115143	20000	2.8	60	30	60	
1115144	20000	2.7	50	23	50	
1115145	20000	2.8	60	30	60	
1115146	20000	2.7	50	23	50	
1115147	20000	2.8	60	30	60	
1115149*-50*-51*	20000	2.8	60	30	60	
1115152	20000	5.0	50	23	55	
1115153	20000	4.2	60	30	50	
1115154-55	20000	3.5	55	27	55	

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
1115156 to 61	20000	3.5	50	25	50	
1115162	20000	3.9	55	25	55	
1115163-64	20000	3.5	50	25	50	
1115165-66	20000	3.9	55	25	55	
1115167-68	20000	3.5	50	25	50	
1115169	20000	3.9	55	25	55	
1115170	20000	3.5	50	25	50	
1115171	20000	3.0	55	25	55	
1115172	20000	3.5	50	25	50	
1115173	20000	3.5	50	25	50	
1115174	20000	5.0	50	23	55	
1115175	20000	3.9	55	25	55	
1115176	20000	1.4	45	18	45	
1115177	20000	3.5	50	25	50	
1115178-79	20000	3.5	50	25	50	
1115180	20000	3.5	50	25	50	
115181-82-83	20000	3.5	50	25	50	
1115184	20000	3.9	55	25	55	
1115185	20000	3.5	50	25	50	
1115186	20000	1.4	45	18	45	
1115187	20000	5.0	50	23	55	
1115188	20000	3.5	50	25	55	
1115189	20000	1.4	45	18	45	
1115190-1-2-3	20000	5.0	50	25	50	
1115194	20000	3.5	50	25	50	
1115195-6-7	20000	1.4	45	18	45	
1115198	20000	2.5	50	25	50	
1115199	20000	1.4	45	18	45	
1115200-205	20000	3.5	50	25	50	
1115206	20000	2.9	22	25	55	
1115207	20000	1.4	45	18	45	
1115208	20000	3.9	55	25	55	
115209-10-11	20000	1.4	45	18	45	
1115212	20000	3.5	50	25	50	
1115213	20000	1.4	45	18	45	
1115214	20000	5.0	50	23	55	
1115215	20000	1.4	45	18	45	
1115216	20000	5.0	50	23	55	
1115217-8	20000	3.5	50	25	50	
1115219-20	20000	5.0	50	23	55	
1115222	20000	8.0	65	37	65	
1115223	20000	12.0	65	38	65	
1115224	20000	3.9	55	25	55	
1115225	20000	3.5	50	25	50	
1115226-7*	20000	5.0	50	23	55	
1115229	20000	5.0	50	23	55	
1115230	20000	3.5	50	25	50	
1115231	20000	3.5	50	25	50	
1115232-3	20000	3.5	50	25	50	
1115235	20000	5.0	50	23	55	
1115236	20000	3.5	50	25	50	
1115237	20000	1.0	50	18	50	
1115238	20000	5.0	50	23	55	
1115240-1	20000	1.0	50	18	50	
1115242	20000	3.5	50	25	50	

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
1115244	20000	5.0	50	23	50	
1115245-6	20000	1.0	50	18	50	
1115247	20000	3.5	50	25	50	
1115248	20000	1.0	50	18	50	
1115249	20000	3.5	50	25	50	
1115250	20000	7.3	55	28	50	
1115251-2[33]	20000	6.0	70	29	70	
1115253	20000	7.5	60	36	50	
1115254-5	20000	6.0	40	39	70	
1115256	20000	5.8	55	29	55	
1115257[34] -8-9	20000	6.0	70	39	70	
4445260	20000	6.0	60	36	60	
4445261-2-3-4-	20000	6.5	50	25	50	
1115265	20000	8.0	65	37	65	
1115233-7	20000	5.0	50	23	55	
1115268	20000	3.5	50	25	50	
1115269-70	20000	5.0	50	23	55	
1115271	20000	1.0	50	18	50	
1115272	20000	3.5	50	25	50	
1115273-4	20000	5.0	50	23	55	
1115276-7	20000	6.0	60	36	60	
1115278-9-80	20000	7.5	60	36	50	
1115282	20000	7.5	60	36	50	
1115283	20000	7.0	60	35	55	
1115284-5	20000	6.0	60	36	60	
1115286	20000	7.5	60	36	50	
1115287-8	20000	5.0	50	23	55	
1115290	20000	3.4	50	26	50	
1115292-3	20000	5.0	50	23	55	
1115294	20000	3.9	55	25	55	
1115295	20000	5.0	50	23	55	
1115296	20000	3.4	50	26	50	
1115297	20000	3.9	55	25	55	
1115298	20000	5.0	50	23	55	
1115299	20000	1.0	50	18	50	
1115326-7-8-9	20000	2.8	60	30	60	
1115333-4-5	20000	2.8	60	30	60	
1115338-9	20000	2.8	60	30	60	
1115376	20000	2.9	60	29	50	
1115378	20000	2.9	60	29	50	
1115379	20000	3.9	55	25	55	
1115380	20000	2.9	60	29	50	
1115381-2-3-4	20000	3.9	55	25	55	
1115385-6-7	20000	2.9	60	29	50	
1115389-93	20000	2.9	60	29	50	

[33]* Secondary ground attached to case. When testing for secondary continuity, connect one test lead to high tension terminal and other test lead to metal container.
Test Polarity on all coils after 1940
Leakage: Operation Tempreature (160-180 degrees F.) 5 Megohms minimum.
[34]* Secondary ground attached to case. When testing for secondary continuity, connect one test lead to high tension terminal and other test lead to metal container.
Test Polarity on all coils after 1940
Leakage: Operation Tempreature (160-180 degrees F.) 5 Megohms minimum.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
1115395	20000	3.9	55	25	55	
1115397	20000	2.9	60	29	50	
1115398-9	20000	3.9	55	25	55	
1115400	20000	3.9	55	25	50	
1115401	20000	2.9	60	29	50	
1115404	20000	2.9	60	29	50	
1115405	20000	3.5	50	25	50	
1115406	20000	1.4	50	18	50	
1115407	20000	3.5	50	25	50	
1115409	20000	3.5	50	25	50	
1115410	20000	5.0	50	23	55	
1115412	20000	3.9	55	25	55	
1115413	20000	8.1	55	30	55	
1115414	20000	3.7	50	26	50	
1115419	20000	3.5	50	25	50	
1915992	20000	4.2	50	24	50	
1972028	20000	3.9	55	25	55	
1972277	20000	3.9	55	25	55	
DESA INDUSTRIES						
68025	7000	1.5	55	20	55	
DISSTON CHAIN SAW						
DH-120 FAIRBANKS-MORES G2477 DA-211F	6500	1.0	70	32	60	
SCINTILLA 10-70128	5000	1.2	75	25	85	
SCINTILLA 10-70132	5000	1.00	75	26	85	
D0-100 SCINTILLA 10-38222	8000	1.2	70	36	70	OFF STATOR
	8000	2.2	70	36	70	ON STATOR
D0-101 SCINTILLA 10-38222Y	8000	1.2	70	36	70	OFF STATOR
	8000	2.2	70	36	70	ON STATOR
DISSTON 230J-264	4500	1.2	80	28	85	
EDISON SPLITDORF						
6406	7000	1.5	70	36	70	RM 4-6
6435	6000	1.5	75	37	75	RM 1.2
51432	7500	2.0	55	26	55	CD
51690	7000	1.5	70	22	70	AJ
72080A	5000	1.5	70	22	70	AJ

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
72223	5000	1.5	70	22	70	AJ
72288	8000	1.5	75	22	75	AJ

EISEMANN

H20-714	4500	4.5	65	35	65	GL & GV SERIES
H21-A808	7000	3.5	80	45	80	FW
H22-920	8500	2.0	60	31	60	RT SERIES
H23-010	6000	1.6	55	22	55	FW
H23-049	8000	1.8	60	30	60	FW
H23-295	8500	2.0	60	30	60	RC SERIES
H24-820	6000	1.5	55	24	55	FW
H27-277	10000[35]	1.9	55	20	55[36]	FW
H27-719	7000	1.5	50	16	50	AM & LA SERIES
H27-894	6000	1.4	60	25	52	AM & LA SERIES
H27-927	10500[37]	1.5	60	22	65[38]	
H27-958	7000	2.0	50	20	50	AM & LA SERIES
H27-959	7000	1.5	50	16	50	AM & LA SERIES
H28-015	10000[39]	2.8	55	22	60[40]	FW
H28-030	85000	2.0	60	31	75	RT & RC SERIES

EVINRUDE MOTORS

112931	30000	4.0	60	30	50	SNOWMOBILE
191049	6000	0.6	50	22	50	BATTERY
191051	6000	0.6	50	22	50	BATTERY
191073	6000	0.8	50	23	50	BATTERY
191181	7500	1.0	45	20	45	MAGNETO
191572	6000	0.8	50	23	50	BATTERY
192385	3000	0.6	70	26	70	BATTERY
192648	7500	0.6	45	20	45	MAGNETO
192882	6000	0.6	50	22	50	BATTERY
192980	6000	0.6	50	22	50	BATTERY
193163	5000	1.4	65	27	65	BATTERY
193164	6000	0.6	50	22	50	BATTERY
193274	6000	0.6	50	22	50	BATTERY
194168	7500	1.0	45	20	45	MAGNETO
195911	7500	1.0	50	19	50	MAGNETO
275019	6500	0.5	50	11	50	MAGNETO
275370	8500	0.8	45	20	45	MAGNETO
275540	18500[41]	1.0	45	20	45	MAGNETO
276039	8500	0.8	45	19	45	MAGNETO
375189	4500	1.0	65	25	65	MAGNETO

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[35] Between two secondary terminals
[36] One secondary terminal grounded to primary
[37] Between tow secondary terminals
[38] One secondary terminal grounded to primary
[39] Between two secondary terminals
[40] One secondary terminal grounded to primary
[41] The spark coils must have one secondary terminal grounded to one primary terminal when making tests with the coil firing spark gap.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
378331	OPTIONS BELOW					
AUTO-LITE PRESTOLITE 200668	14000	4.2	60	29	50	
DELCO-REMY 1115153	10000	4.2	60	30	50	
379569	30000	4.0	60	30	50	MAGNETO
381886	1500	.65	65	4	50	PULSE
				44 Amplified		TRANSFORMER
580040	4000	1.3	75	31	75	MAGNETO
580084	4000	1.0	70	26	70	MAGNETO
580118	4000	1.2	75	33	75	MAGNETO
580197	9000	1.2	75	36	70	MAGNETO
580243 50 HP.	8000	1.1	60	31	55	MAGNETO
580416	5500	1.2	75	33	75	MAGNETO
580527	25000	25	55	32	45	
580602	25000	25	55	32	45	
580688	3000	1.2	60	9	50	
				80 Amplified		
580730	3000	1.2	60	9	50	
				80 Amplified		
580740	3000	1.2	60	9	50	OUTBOARD MAG
				80 Amplified		
580821	3000	1.2	60	9	50	OUTBOARD MAG
				80 Amplified		
580847	3000	1.2	60	9	50	OUTBOARD MAG
				80 Amplified		
580944	3000	1.2	60	9	50	SNOWMOBILE
				80 Amplified		MAG
580971	5500	1.2	75	33	70	OUTBOARD MAG
580976	3000	1.2	60	9	50	SNOWMOBILE
				80 Amplified		MAG
580977	3000	1.2	60	9	50	SNOWMOBILE
				80 Amplified		MAG
580981	3000	1.2	60	9	50	SNOWMOBILE
				80 Amplified		MAG
581024	3000	1.2	60	9	50	SNOWMOBILE
				80 Amplified		MAG
581032	3000	1.2	60	9	50	OUTBOARD MAG
				80 Amplified		
581124	9000	7.0	50	22	50	OUTBOARD MAG
						MAXIMUM PRIMARY DC OHMS (POINTS TEST)
581370	20000	14	50	24	45	1.2
581407	20000	14	50	24	45	1.2
581503	3000	0.6	50	27 Amplified	50	0.06
581609	3000	0.6	50	27 Amplified	50	0.06
581610	3000	0.6	50	27 Amplified	50	0.06
581611	3000	0.6	50	27 Amplified	50	0.06
581685	3000	0.6	50	27 Amplified	50	0.06
581686	3000	0.6	50	27 Amplified	50	0.06
581764	3000	0.6	50	27 Amplified	50	0.06

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
FAIRBANKS-MORSE						
B2477C	5500	0.8	70	33		
EX2477[42]	7500	1.0	75	31		
F2477C6000	6000	1.2	70	37		
FX2477[43]	7500	1.0	75	31		
GX2477C	5500	0.8	70	33		
HX2477[44]	6500	0.8	75	22		
JX2477[45]	6500	0.8	75	22		
LX2477	7000	1.0	75	31		
NX2477	6500	0.A8	75	22		
P2477C	5500	1.0	95	49		
P2477C	4200	1.5	70		38	
Q2477C	9000	0.4	55	15		
	12000	0.5	70		30	
QP2477C	9000	0.4	55	15		
QR2477C	11000	0.4	55	22		
	12000	0.5	70		30	
QS2477C	7000	0.4	55	15		
	12000	0.5	70		30	
QT2477C	9000	0.4	55	15		
QX2477C	9000	0.4	55	15		
QW2477C	9000	0.4	55	15		
	12000	0.5	70		30	
QY2477C	7000	0.4	55	15		
QZ2477C	7000	0.4	55	15		
	12000	0.5	70		30	
R2477C	5500	0.8	70	33		
	4200	0.6	70		35	
RS2477C	5500	0.8	70	33		
	4200	0.6	70		35	
S2477C	7000	0.6	70	35		
T2477C	5500	0.6	70	30		
	5900	0.5	70		27	
TS2477C	4700	0.7	70		26	
TX2477	7000	1.0	75	31		
	5900	1.0	70		35	
U2477[46]	7500	1.0	75	31		
U2477C	5500	1.0	95	49		
X2477	7000	1.0	75	31		
	5900	1.0	70	35		
YX2477[47]	5900	1.0	70		35	

[42] Before testing a coil from a flywheel magneto, inset laminated iron core.
[43] Before testing a coil from a flywheel magneto, inset laminated iron core.
[44] Before testing a coil from a flywheel magneto, inset laminated iron core.
[45] Before testing a coil from a flywheel magneto, inset laminated iron core.
[46] Before testing a coil from a flywheel magneto, inset laminated iron core.
[47] Please Note - In the case of the above readings on Fairbanks-Morse molded coils only, it is suggested they be used only as approximate standards. In the field, due both to variation between coils and coil testers, readings may be somewhat above or

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
FIRESTONE	(SEE SCOTT ATWATER)					
FORD, LINCOLN, MERCURY, EDSEL, COMET						
78-12036	8000	1.9	60	30	48	
IGA-12024	7500	1.9	60	30	48	
8BA-12029 (6 VOLT)	5000	2.4	65	33	50	
68-12024	4500	1.8	70	37	54	
18-12024	4500	1.8	70	37	54	
B6A-12029-B (12 VOLT)	10000	3.0	55	28	50	
FAC-12029A	10000	3.0	55	28	50	
MOTORCRAFT D2AF-12029-AA	10000	3.0	55	28	50	
GAMBLE, GOODRICH, GOODYEAR	SEE COMMON SPECIFICATIONS ON LAST PAGE OF TEST SPECS.					
GERMAN BOSCH						
M7AN 3Z 6Z (STIHL D-24 LIGHTING 8 HP SAW)	9000	1.4	50	15	55	
7T1 (STIHL M-07 6 HP SAW	8000	2.5	55	22	60	
2-204-210-013 (JLO #152	6000	14.8	85	46	95	
2-204-210-0A40 (HIRTH 300)	7000	2.5	60	29	65	
2-204-210-041 (JLO 252 & 372)	6500	5.2	85	48	100	
2-0204-211-007 (JLO 292 & 372)	7000	2.3	60	31	65	
2-204-211SD-00AA8	7500	4.7	90	49	100	
2-204-211-029	7500	2.5	70	35	75	
2-204-211-051	10000	2.5	70	30	75	
2-204-211-052	10000	3.0	70	33	95	
2-204-211-069	10000	2.0	60	24	65	
2-204-211-082 [48]	5000	0.85	65	35 Amplified	65	

below the average given here. Where two lines of test data are given for the same coil number it means the coil under test will be to one or the other set of data. Test readings will usually indicate which set of test limits to use.

[48] Nominal resistance of charging coil is about 1000 OHMS, use Secondary Continuity Test.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
0-212-940-001	10000	23	55	31	55	
1-214-210-106 [49]		2.5				
1-214-210-162 [50]		8.5				
0-221-500-800	10000	23	55	31	55	
2-204-222-018	15000	1.5	60	18	60	
2-204-222-022	15000	2.0	60	28	60	
2-204-222-052	15000	1.5	70	27	70	
HARLEY DAVIDSON						
29524-55A	9000	.04	55	15		
31601-63A	10000	8.0	65	37	65	
31602-65	12000	4.5	60	32	60	
31604-48 TWIN IGNITION	7000 [51]	4.1	60	29	67 [52]	
31609-65a	25000 [53]	25	70	51	65 [54]	
HOLLINGSWORTH CORP. GENERATORS						
PHELON F-981						
PHELON FG-1054						
PHELON FG-1057						
HOMELITE						
63998-A	10000	1.7	65	20	65	
68149	9000	1.7	65	24	60	
68716	7000	1.7	65	24	60	
90098-A1	30000	3.5	65	35	50	
HONDA						
C-100, C-110 EARLY MODELS	6000	1.4	60	24	70	
C-100, C-110, C-105 Primary coil only for energy transfer systems which repalced above magneto		4.2	60	31		

[49] Lighting coils - continuity test only ohn Primary Continuity Test.
[50] Lighting coils - continuity test only ohn Primary Continuity Test.
[51] Between two secondary terminals.
[52] Coil must have one secondary terminal grounded to one primary terminal.
[53] Between two secondary terminals.
[54] Coil must have one secondary terminal grounded to one primary terminal.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
High tension coil only for energy transfer system and used in conjunction with above primary coil	15000	12 [55]	70	43	75	
C-102 (6 VOLTS)	15000	3.3	50	23	55	
C-200, CT-200 (6 VOLTS)	20000	3.5	55	27	60	
CB-160 (12 VOLTS)	20000	8.5	55	31	60 [56]	
CB-72, CB-D77, CL-72 (12 VOLTS)	15000	7.5	70	42	75	
30400-028-004	15000	3.2	60	35	60	
30500-035-004	15000	25	80	50	60	
38250-013-0		6.0				PRIMARY ONLY
30500-044-010	15000	25	85	50	85	
30540-044-004		7.0				PRIMARY ONLY
30400-045-020	20000	3.8	50	25	55	
30540-045-670		6.0				PRIMARY ONLY
30400-118-017	20000	7.5	60	26	55	
30540-041-005		6.0				PRIMARY ONLY
30400-046-000	15000	6.5	60	29	55	
30500-063-004	10000	11	70	37	65	
38260-002-0		6.0				PRIMARY ONLY
30400-074-000	25000	6.5	55	24	50	
30400-087-791	20000	3.3	55	26	50	
30400-089-672	30000	3.6	60	34	55	
30500-098-671	15000	12.0	70	40	65	
30540-041-00A5		6.0				PRIMARY ONLY
30400-107-007	15000	3.0	55	28	50	
30400-114-017	10000	8.0	60	27	55	
038260-0050		6.0				PRIMARY ONLY
30500-202-004	20000	3.3	65	35	60 [57]	
30500-230-000	20000	3.4	65	33	60 [59]	
30500-235-672	50000	8.5	70	42	65 [59]	
30500-283-000	20000	10.0	75	44	70	
30500-286-004	15000	9.5	75	45	75	
30500-292-671	20000	10.0	60	35	70	
30500-300-013	20000	10.0	70	44	65 [59]	
30400-303-004	20000	3.0	55	28	50 [59]	
30500-310-670	15000	8.6	85	47	75	
30500-312-000	15000	9.0	75	44	70	
30400-313-003	50000	10.0	75	45	70	
30500-323-023	20000	10.0	75	47	70 [59]	
30500-918-670	15000	11.0	65	37	60	
31102-918-004		14.0				PRIMARY ONLY
30500-357-003	10000	6.0	55	24	55	2.2 (POINT TEST)
30500-358-003	20000	8.0	65	26	60	1.5 (POINT TEST)
30500-360-003	20000	1.2	50	18	50	1.0 (POINT TEST)
30500--362-000	20000	3.0	55	24	55	2.0 (POINT TEST)

[55] Between the two primary leads with one end of secondary connected to one primary.
[56] Ground first one secondary lead and then the other when making this test.
[57] One end of secondary must be grounded to most convenient primary terminal for this test.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
INTERNATIONAL HARVESTER						
47439-DAX	12000	.4	60	20	60	H-4
352355-R91	12000	.4	60	20	60	J-4
21401-DAX	12500	.4	60	23	60	F-4 & F-6
353874-R91	5500 [58]	2.3	60	31	50	IHC DIST. ING. SET
353875-R91	6000	7.0	60	37	70	12 VOLT
JACOBSEN MANUFACTURING CO.	SEE COIL MANUFACTURE SPECIFICATIONS					
JOHNSON MOTORS						
72-612	6000	0.3	60	22	60	
72-792	9000	0.8	A45	21	45	
72-852	18500	0.5	50	27	50	
72-875	8500	.0S.5	50	25	50	
72-947	9500	0.8	45	21	45	
72-1005	5000	0.5	60	30	60	
72-1072	9500	0.9	50	16	50	
72-1108	8500	0.4	50	10	45	
375102	7000	1.8	65	36	65	
375189	4500	1.0	65	25	65	
378231						
AUTO-LITE 200668	14000	4.2	60	29	50	
DELCO-REMY	10000	4.2	60	30	50	
1115153						
379569	30000	4.0	60	30	50	
381886	1500	0.65	65	4 44 Amplified	50	PULSE TRANSFORMER
580040	4000	1.3	75	31	75	
580118	4000	1.2	75	33	75	
580197	9000	1.2	75	36	70	
580243	8000	1.1	60	31	55	
580380	25000	2.4	50	22	50 [59]	
580416	5500	1.2	75	33	75	
580527	25000	25.0	55	32	45 [61]	
580602	25000	25.0	55	32	45 [61]	
580683	3000	1.2	60	9 80 Amplified	50	
580730	3000	1.2	60	9 80 Amplified	50	
580740	3000	1.2	60	9 80 Amplified	50	OUTBOARD MAG
580821	3000	1.2	60	9 80 Amplified	50	OUTBOARD MAG

[58] Check polarity. Spark will be negative with red clip to positive primary terminal.

[59] Two spark coils must have one secondary terminal grounded to one primary terminal when making tests with the coil firing.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
580847	3000	1.2	60	9 80 Amplified	50	OUTBOARD MAG
580944	3000	1.2	60	9 80 Amplified	50	SNOWMOBILE MAG
580971	3000	1.2	60	9 80 Amplified	50	OUTBOARD MAG
580976	3000	1.2	60	9 80 Amplified	50	SNOWMOBILE MAG
580977	3000	1.2	60	9 80 Amplified	50	SNOWMOBILE MAG
580981	3000	1.2	60	9 80 Amplified	50	SNOWMOBILE MAG
581024	3000	1.2	60	9 80 Amplified	50	SNOWMOBILE MAG
581032	3000	1.2	60	9 80 Amplified	50	OUTBOARD MAG
581124	3000	1.2	60	9 80 Amplified	50	OUTBOARD MAG
581370	20000	14.0	50	24	45	1.2 (POINT TEST)
581407	20000	14.0	50	24	45	1.2 (POINT TEST)
581503	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)
581609	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)
581610	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)
581611	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)
581685	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)
581686	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)
581764	3000	0.6	50	27 Amplified	50	.06 (POINT TEST)

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
KOHLER COMPANY						
277375	30000	35	70	54	65	(POINT TEST) 6.0

CROSS REFFERENCE TABLE KOHLER Number	Engine Model	Manufacture	Manufacturer Number	Ignition Type	Remarks
220080	K91	SCINTILLA	10-70161	MAG	
220435	K91	PHELON	FG-2145	MAG	
230075	K161	SCINTILLA	10-160396	MAG	
231281	K91, K141, K161, K81, K241, K301, K321, K331, K341	DELCO-REMY	1115070	BATTERY	
231718	K141, K161, K181	PHELON	FG-6547	MAG	
232897	KV181	PHELON	FG-7423-1		
232901	K141, K161, K181,K241, K301, K321, K341	PHELON	FG-7427	MAG	
234422	K141, K161, K181, K241, K301, K321, K341	PHELON	FG-7969-1	MAG	
236826	K121, K181, KV181, K241, K301, K321, K341	PRATT	115102	BREAKERLESS	
237256	K91, K141, K161, K181K K241, K301, K321, K341	PRESTOLITE	201777	BATTERY	
270560	K662	WICO	X-12810	MAG	
270775	K662	FAIRBANKS	Q3477C	MAG	
271144	K662	WICO	X5700C	MAG	
275756	K241, K331	PHELON	FG-1641	MAG	
277375	K482, K532, K582, K662	ANDOVER	AC-3218	BATTERY	
277449	K482, K532, K582	PHELON	FG-7898	MAG	
33 145 01	K295-1, K309-1, K335-1	ROBERT BOSCH	1-214-210-160	LIGHTING COIL	
33 145 04	K295-1, K309-1, K335-1	ROBERT BOSCH	1-214-210-182	MAG	75 WATT
34 145 01	K339-2, K440-2, K618-2	ROBERT BOSCH	1-214-210-163	LIGHTING COIL	
34 145 02	K295-1, K295-2, K309-1, K335-1, K340-2, K295-2AX, K399-2, K440-2, K618-2	ROBERT BOSCH	0-221-500-800	MAG	40 WATT
34 145 03	K399-2, K618-2	ROBERT BOSCH	1-214-210-165	MAG	40 WATT
34 145 04	K295-2, K340-2, K399-2, K440-2, K440-2AX, K440-2SS	ROBERT BOSCH	1-214-210-184	MAG	75 WATT
34 145 05	K295-2, K340-2, K399-2, K440-2, K440-2AX	ROBERT BOSCH	1-214-210-183	MAG	75 WATT
34 145 06	K295-2, K340-2, K399-2, K440-2AX	ROBERT BOSCH	1-214-210-159	LIGHTING COIL	
36 145 02	K618-2	ROBERT BOSCH	2-204-211-009	MAG	40 WATT
41 145 01	K141, K161, K181	PHELON	FG-7969-1-B	MAG	
43 145 01	K645-3SS	ROBERT BOSCH	1-214-210-370	MAG	

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
LAWNBOY						
580118	4000	1.2	75	33	75	
580184	4000	1.2	75	33	75	
580602	35000	35	55	32	45	
678111	4000	1.2	75	33	75	
678539	4000	1.2	75	33	75	

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO

MALL TOOL COMPANY

MODEL & MANUFACTURER	MALL MAG NO.	MFG. MAG NO	MALL COIL NO.	MFG. COIL NO.
10-11 Scintilla	30660	10-53165	22341	10-3822
12 Phelon	21907	FG-553	21694	FG-678
12A Phelon	21908	FG-109E	37381	FG-463
23-14 B&S				B-290880
2MG Scintilla	41324A	10-79185	42797	10-82241
3MG Scintilla	43047	10-86610	42399	10-79157
4MG Scintilla	43047	10-86610	42399	10-79157
5MG Scintilla	41324A	10-79185	42797	10-82241
6 B&S				B-291617
6-7 Scintilla	27200A	10-51660	25954	10-50226
7G Scintilla	23710	10-54902	22341	10-38222
8 Scintilla	41080			
8G B&S		B-290763		B-29671
GP Scintilla	43047	10-86620	42399	10-79157
IMG Sintilla	41324A	10-79185	42797	10-82241
OMG Scintilla	42247	10-82235	42399	10-79157
Wico	40528		40509	X-7536
Wico[60]	37191	FW-2096	37387	X-5345

MALLORY

CDNA-1	1500	.4	.04	55	11*	55
Super Mag	25000	Inf**	3.0	80	68	80
28130A	25000	3.5	4.5	65	38	55*1)
U12A Coil & 28675	20000	3.2 & 3.8#	3.8	65	36	55
U6A Coil & 28670[61]	20000	2.2	2.6	55	30	50
28680	20000	3.5	1.8	65	38	55
28685	20000	1.6	0.9	50	32	50
28690[62]	20000	1.6	.09	50	32	50

McCULLOCH MOTORS (chain saws)

C-2 to I-7	5000	.5	60	13	47
J-7 to K-8	3000	.5	60	12	67
L-8 to F-1 (d)	4000	1.5	60	24	75
F-1 on	7200	1.2	60	22	67

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[60]** Refer to respective Scintilla, Phelon, Wico or Briggs & Stratton Specification page for test data on coils listed in this column.

[61]*1) Ground one secondary terminal to primary on this test.

[62] * Amplified reading. If tester does not have amplifier, ignore meter reading on this test.

** Check for Primary Continuityonly on tester secondary or capacity circuits. Use, "Point test" position if your tester has one and check D.C. ohms resistance -3.0 ohms maximum.

With ballast

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
18019A	8500	0.7	50	11	50	
18033C	6000	2.0	55	20	75	
19033A	8500	0.7	50	11	50	
19033C	6000	2.0	55	20	70	
24033A	8500	0.7	50	11	50	
24033C	6000	2.0	55	20	75	
55013(a)	60000	2.0	55	20	70	
58826	10000	1.4	60	23	65	
62927, 63888, 67921(b)	15000	1.4	60	23	65	
68707(c)	10000	1.7	70	27	70	
84957	10000	1.7	70	27	70	
84972, 85243	15000	1.5	60	25	65	
87246 [63]	15000	1.5	60	25	65	

MERCURY MARINE

32193	20000	3.0		50	23	50
394-1128A1	12000	.7		60	18	50
332-2983A5 [64]	500	**		50	19 amp	45
332-4075A1	4000	**		50	12 amp	45
332-4895A2 [65]	1500(1)	.3	.025	50	20 amp	50
336-3955A [66]	500	.5		75	52 amp	***
336-4528A1 [67]	2000(2)	1.0	.22	60	65 amp	60
339-5748A2 [68]	1500(3)	.4	.04	50	35 amp	50****
398-2568A1 333-3175 333-3176	10000	1.2		60	20	55

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[63] (a) Replaced by 57643A - same test specification for both part numbers.
(b) replaced by 84972
(c) replaced by 84957
(d)Coils F-0 to F-1 with a red dot on the coil case near the primary ground terminal are Hi-Output coils and use the specifications for the F-1 on, Hi-Output coils
McCulloch coil identification stamped on flywhell side of coil (bottom)
[64]** Check for continuity only - resistance is very low
[65](1) Between Secondary and Primary
[66]*** Not Applicable
[67](2) between ground wire and secondary
[68](3) Between ground and secondary
****Secondary ground wire must be attached to primary for this test

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
MORRISON PELSUE CO.						
5052 & 1252A[69]	3300	1.0	55	18	65*	
MOTOROLA						
Sales #8-1 (Eng #25C44066A01)	13000	.5	45	16	45	
Sales #8-2(Eng #25C44109A01	13000	.4	45	14	45	
MUNCIE NEPTUNE						
	PHELON MAG NO.	PHELON COIL NO.				
1.5 H.P. Single	F-109	FG-114				
1.7 H.P. Single	F-109D	FG-307				
2.5 H.P. Single	F-189	FG-307				
3.3 H.P. Single	F-189D	FG-307				
3.3 H.P. Single	F-189M	FG-470B				
Model a-1 Muncie[70]	F-109DM	FG-470B				
O & R ENGINES						
A-149-3	10000	1.4	55	20	55	
ONAN DIVISION OF STUDEBAKER CORP						
160B155	Magneto	7500	0.9	42	9	47
19410A* (2-160B155 Coils)	Magneto	7500	1.9	80	40	80
160B86**	Magneto or battery	10000	10-15	75	45	70
160B99**	Magneto or battery	10000	10-15	75	45	70
160C483**	Magneto or battery	10000	2.5-3.5	75	45	67
160B693	Magneto or battery	15000	2.1	60	29	60
160A750	Magneto	10000	1.6	60	25	60*

[69]* Test is made first with one seconkary terminal shorted to ground, then wiht other secondary terminal shorted to ground.
[70]* Refer to Phelon Specification Page for test data on coils listed.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
160C792	Magneto or battery	10000	2.5-3.5	75	45	67
166C346		15000	3.0	70	36	70
160-1016		10000	1.8	60	32	60
166B382		15000(a)	6.0(b)	65	32	65 (c)
166B535 & 166-0643[71]		25000	7.5	65	39	65

PHELON

08992	12000	2.0	65	18	65	
09140	11500	2.2	65	17	65	
09271	10500	2.5	75	15	60	
09428	9500	2.3	80	37	70	
09524	3500	1.15	50	18 AMP		
09667	9500	1.7	75	17	70	
10088	500	.5	50	43 AMP		
10128			70	40 AMP		
10253	4000	1.2	46	17 AMP		
11181	10500	2.0	60	15	60	
11181-01	10500	2.0	60	15	60	
FG-08921	9000	3.0	80	31	80	
FG-1054	7500	2.5	75	24	70	
FG-1070	7500	2.0	75	24	70	
FG-1070B	7500	2.0	75	14	55	
FG-114 (taped)	7500	2.0	75	24	70	
FG-1309	7500	2.0	75	17	70	
FG-1573 Series	7500	2.0	75	17	70	
FG-1618**	7500	2.0	75	20	70	
FG-1641	15000	3.0	75	30	70	
FG-1835	9500	2.5	75	24	70	
FG-2145	7500	2.0	75	17	70	
FG-2145-1-B	9500	2.1	75	24	70	jacketed
FG-2180	7500	2.0	75	17	70	
FG-2331	7500	2.0	75	17	70	
FG-2435	7500	2.0	75	17	70	
FG-2446	7500	2.0	75	17	70	
FG-2454	9500	2.0	75	24	70	
FG-2503	7500	2.0	75	17	70	
FG-2546	9000	2.5	75	24	70	
FG-2641	7500	2.0	75	17	70	
FG-2731	7500	2.0	75	17	70	
FG-2732	7500	2.0	75	17	70	

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[71](a) Take reading between the two secondary terminals which are on opposite sides of the case.

(b) Take reading from screw at top on 1.75 mfd. capacitor and terminal on one side of the case.

(c) Ground one seconkary terminal to primary winding - either end. Also, you will not be able to use the regular test probe as it gets too close to the matal case. Use nome secondary wire to puit in the secondary openings as any bare wire or prod will let spark jump to the coil case and not go across the spark gap.

* Test on this coil is made, first with one seconkary terminal shorted to grounk, then the other seconkary terminal to ground, Teading in both cases will be as above.

** Test on this coil is made with only one of the secondary terminals shorted to a primary terminal. NOTE: Primary polarity connections are made to give the higher reading. Refer to the ONAN unit instruction manual for magneto breaker point or ignition breaker point gap setting, Pols shoe clearance, and magneto or ignition timing.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
FG-2914	7500	2.0	75	17	70	
FG-2976	15000	2.0	75	30	70	
FG-3003	10000	2.0	75	15	70	
FG-307 (taped)	7500	2.0	75	24	70	
FG-3082	10000	2.0	75	15	70	
FG-3082B	10000	2.0	60	21	65	
FG-3289	7500	2.0	75	17	70	
FG-3289B	7500	2.0	75	17	70	
FG-3294	7500	2.0	75	17	70	
FG-3294B	7500	2.0	75	17	70	
FG-3375	5500	2.0	75	23	80	
FG-3426	12000	2.0	75	37	80	
FG-3437	12000	2.0	75	37	80	
FG-3502	7500	2.0	75	24	70	
FG-3595	9500	2.5	75	24	70	
FG-3595B	9500	2.5	75	24	70	
FG-3681	12000	2.0	75	37	80	
FG-3689	7500	2.0	75	24	70	
FG-3755	7500	2.0	75	24	70	
FG-3755X	9000	2.0	75	24	70	
FG-3773	9000	2.0	75	17	80	
FG-3872	7500	2.0	75	17	70	
FG-4055	10000	2.0	75	15	70	
FG-4081	7500	2.0	75	17	70	
FG-4128	7500	2.0	75	24	70	
FG-420 Series	7500	2.0	75	17	70	
FG-4213	9500	2.5	75	24	70	
FG-4400	6700	1.4	75	30	65	
FG-4448	7500	2.0	75	17	70	
FG-463 Series (taped)	7500	2.0	75	17	70	
Fg-470 Series (moulded)	7500	2.0	75	17	70	
FG-470 Series (taped)	7500	2.0	75	17	70	
FG-492 Series	9500	2.0	75	24	70*	
FG-4928	8500	2.4	60	17	75	JACKETED
FG-5380	17000	1.7	75	31		
FG-5395	10000	1.7	75	28	60	
FG-5773	9000	2.1	75	28	66	
FG-5960	4000	.6	70	32 AMP	44	
FG-5962	4000	.6	70	32 AMP	44	
FG-6001	7500	2.0	75	24	70	
FG-6001B	7500	2.0	75	24	70	
FG-608	9500	2.5	75	24	70	
FG-6109	7500	2.0	75	17	70	
FG-6110	7500	2.0	75	17	70	
FG-6199	10000	2.0	75	15	70	
FG-6201	10000	2.0	75	15	70	
FG-6223	10000	2.0	75	15	70	
FG-6235	10000	2.0	75	15	70	
FG-6240	9000	1.8	75	17	70	
FG-6240-00-N	9500	1.7	75	17	70	
FG-6240B	9000	1.8	75	17	70	
FG-6240C	7500	2.0	75	17	70	
FG-6240D	7500	2.0	75	17	70	
FG-6240E	7500	2.0	75	17	70	

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
FG-6240F	9000	1.8	75	17	70	
FG-6240G	9000	1.8	75	17	70	
FG-6240H	9000	1.8	75	17	70	
FG-6240K	9000	1.8	75	17	70	
FG-6240L	9000	1.8	75	17	70	
FG-6240M	9000	1.8	75	17	70	
FG-6240S	10000	1.2	60	20	60	
FG-6240T	10000	1.2	60	20	60	
FG-6358B	10000	1.2	60	20	60	
FG-6358C	10000	1.2	60	20	60	
FG-6388	7500	2.0	75	17	70	
FG-6446	9000	2.1	75	22	75	
FG-6503	7500	2.0	75	17	70	
FG-6547	14000	2.2	75	34	56	
FG-6599	9000	2.0	75	15	65	
FG-678	7500	2.0	75	17	70	
FG-6850	7500	2.0	75	17	70	
FG-7049	10500	2.1	60	15	60	
FG-7049A	10500	2.1	60	15	60	
FG-7106	7500	2.0	75	17	70	
FG-7149	10000	2.0	75	15	70	
FG-7151	9600	2.1	75	18	57	
FG-7168	7500	2.0	75	17	70	
FG-7168B	7500	2.0	75	17	70	
FG-7202	8500	2.0	75	26	60	
FG-7202B	7500	2.0	75	17	70	
FG-7211	8500	2.0	75	26	60	
FG-7256	10000	2.0	75	15	70	
FG-7256A	10000	2.0	75	15	70	
FG-7271	9000	1.8	75	20	70	
FG-7423	9000	2.7	75	40	75	
FG-7423-1	10500	2.0	75	28	60	JACKETED
FG-7423-1B	10500	2.0	75	28	60	JACKETED
FG-7423B	9000	2.7	75	40	75	
FG-7427	9000	2.7	75	40	75	
FG-7427-1	10500	2.0	75	28	60	
FG-7427-M	7000	2.3	75	28	70	
FG-7447	9000	1.6	75	20	70	
FG-7459	9000	1.6	75	20	70	
FG-7469	10000	2.0	60	21	65	
FG-7502	7500	2.0	75	17	70	
FG-7513	9000	1.8	75	17	70	
FG-7601	8000	2.6	75	28	70	
FG-7670	10000	1.9	75	26	60	
FG-7795	9000	2.9	75	32	64	
FG-7898	25000	3.5	55	28	55*	
FG-7907	7500	2.7	75	22	61	
FG-7969	9000	2.7	75	38	70	
FG-7969-1	10500	2.0	75	28	60	JACKETED
FG-7969-1B	10500	2.0	75	28	60	JACKETED
FG-7969B	9000	2.7	75	38	70	
FG-8054	10000	2.0	75	15	70	
FG-8054	10500	2.1	60	15	60	
FG-8119	9500	2.7	75	32	67	
FG-8119-2	8500	2.4	60	17	75	JACKETED

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
FG-8133	9500	2.7	75	32	67	
FG-8515	12000	3.0	75	9	85	
FG-8525	10500	2.5	75	25	75	
FG-8619	8000	2.6	75	28	70	
FG-8635	9500	2.2	75	21	52	
FG-8635A	11000	3.0	60	15	70	
FG-8878	10500	2.5	75	25	75	
FG-8921-1	9500	3.4	60	20	80	
FG-8991	9000	1.8	75	22	70	

[72]

PIONEER SAWS

	(Division on Outboard Marine Corp)					
Own	473939	10000	1.8	60	22	60
Own First Series	470685 Blue	5500	1.2	75	36	70
Own Model 700	580454	5500	1.2	75	33	75
Own Model NU-17	580195	5500	1.2	75	36	70
Own Second Series	470685 Reddish Purple	5500	1.2	75	36	70
X11180	470187(1)	7000	1.0	60	15	60
X12935	470187(2)	9000	1.1	55	17	65
X7500	425960	4000	1.4	50	16	70
X7536	425371	8000	1.2	60	17	70

POLARIS

3080270	10000	5.5	.09	60	25	50	1970
3080838	10000	9.0	2.0	60	24	50	1970-1
3081177 **	10000	9.0	2.0	60	24	50	1972-3-4
3081303	20000	1.8	.45	60	18	50*	1972-3-4
3081514	20000	1.0	.45	60	19	50	1973-4
3081602***	5000	.4	.09	60	75 AMP	50	1973-4
3081603	20000	4.5	.9	50	18	50	1972-3-4-5
3081954	15000	.8	.7	50	16	50*	1972-3-4-5-6
3081974	10000	9.5	2.0	55	21	55	1972-3-4-5-6
3081980	10000	2.0	.25	50	13	50	1973-4-5-6
4405ACOH	10000	8.0		60	25	50	
SU207AC9G	10000	6.0		60	25	50	
SU207AC9L	10000	7.2		60	25	50	

[73]

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[72]Coils on preceeding pages are moulded unless listed "taped"
* Ground out one secondary terminal while testing other.
** FG-1618 - Connect the core ends (common ground) during tests.
NOTE: These specifications are for coil on core and stator plate, with condenser in the circuit and the breaker points open.
[73] * one end of secondary must be grounded to most convenienst primary terminal.
** twin ignition number but each coil is tested separately as a single coil.
*** set of three (3) coils with each coil tested separately as a single coil.
**** on this list test limits for "minimum coil test" are given wiht the secondary calbe attached to coil. If secondary cable is removed, reduce test limit two (2) divisions.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
PRESTOLITE	(see also Wico - Prestolite)					
Transigniter #201	25000	.6	45	17	45	.35
200574	12000	7.8	65	37	55	
200575	12000	3.9	60	27	50	
200577	12000	3.1	60	29	50	
200668	14000	4.2	60	29	50	
200658	20000	7.5	75	37	55	
200690 (P5--8)	20000	2.8	60	30	50	1.7
200691 (P5-10)	20000	8.0	75	45	55	
200692 (P5-13)	20000	4.0	60	30	50	2.0
200718	30000	3.5	65	35	50	
200729 (P5-130)	20000	3.4	55	31	50	
200753 (molded coil)	20000	3.2	55	28	55	2.0
200759	20000	4.0	55	30	50	
200810 (P5-56) transigniter coil	25000	.6	45	17	45	.35
200873 (P5-59) transigniter coil	25000	.6	45	17	45	.35
201694*	10000	.6	45	8	45	.35
201729	20000	8.0	60	37	55	

[74]

REMINGTION CHAIN SAWS

	COIL PART NO.	MAGNETO PART NO.
GP, SL, GL, SL5, SL5R, GL7, GL7R,	42797	43062
SL5G, PRO 88	SCINTILLA #10-82241	SCINTILLA #10-88515-11
SUPER 75, SUPER 75A, SUPER 75G,	60150	60142
BANTAM, BANTAM "G", SUPER 65	WICO #X-12920	WICO #Y-12131
SL5, SL5GB, PRO 88, PRO 88-G	60621	60611, 60612
	PHELON FG-4081	FAN PHELON FG-4418
660, SUPER 660G, SUPER 770, SUPER	60150	60051
770G, SUPER 770GB, SUPER 990	WICO #X-12920	WICO FWS-202
SUPER 880, SUPER 880G	62191	62190
	WICO #X-13655	WICO #X-13656
POWERLITE 4, POWERLITE STD.	64477	64475
	PHELON FG-7094	PHELON FG-463

REO LAWN MOWERS	COIL MAKE	COIL PART NUMBER
211E (above serial no. 4, 004)	Wico	X-7467
211E (bleow serial no. 4, 005)	Wico	X-4943
211F	Wico	X-7467
211G	Wico	X-7467
211G, Type 1	Phelon	FG-420
338E (above serial no. 1, 010)	Wico	X-7467
338E (below serial no. 1, 001)	Wico	X-4943
338F	Wico	X-7467
338G	Wico	X-7467
338G, Type 1	Phelon	FG-420

[74]* Polarity reads down on this coil instead of up.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
404E (above serial no. 5, 869		Wico	X-7467			
404E (below serial no. 5, 869)		Wico	X-4943			
404F		Wico	X-7467			
404G		Wico	X-7467			
404G, Type 1		Phelon	FG-420			
5200-7		Wico	X-9055			
5240-7		Phelon	FG-2731			
5250-7, All others, also		Phelon	FG-2731			
5260-7,5230-7		(Type 1)				
5260-8		(Type 2)				
552 (above serial no 73, 457)		Wico	X-4943			
552 (below Serial no. 73, 458)		Eisemann	H27-894			
556 (above serial no. 6, 299)		Wico	X-4943			
566 (below serial no. 6, 300)		Eisemann	H27-894			
660G		Wico	X-7467			
660G, Type 1		Phelon	FG-420			
All 1954, 1955, 1956		Wico	X-9055			
Lawnmowers 1956 & 1957		Phelon	FG-2732			
M21, M23		Phelon	FG-2180B			
M41, M42, M43, M51, M52		Wico	X-9965			
M45		Wico	X-11654			
M46		Wico	X-11654			
M47, M48		Wico	X-9965			
M47, M48		Phelon	FG-3294			
M50, M53		(Type 1)				
M50, M53, M44		(type 2)				
M54		Phelon	FG-3294B			
M57, M58, M60, M61		Phelon	FG-4081			
M62, M63, M64, M65		or				
M66, M67, M69, M70 [75]		Wico	X-9965			

ROBERT BOSCH (See GERMAN BOSCH)*

ROPER OUTDOOR PRODUCTS

9309 R	10000	20.0	60	70 AMP	60*

RUPP INDUSTRIES INC.

17055 (1972 Ign. Coil#1)	8000	14.0	60	34	65
17056 (1972 Ign. Coil #2)	8000	14.0	60	34	85

[75]For test specification on coils and condensers listed above refer to the respective Eisemann, Phelon or Wico Specification Page.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
20581 (1973 Ign,. Coil [76]	1000	.2	60	13 Amp	50*	

SCINTILLA (see Bendix)

SCOTT ATTWATER MFG. CO.,

Firestone Corsair, Hiawatha Outboard Motors

	YEAR	PHELON MAG NO.	SCCOT ATWATER MAG. NO.	PHELON COIL NO.	SCOTT ATWATER COIL NO.
4 HP Single	1947	F-189	4911-105	FG-307	476-134
3.6 & 4 HP Sgl	1949	F-189H	5010-105	FG470	5010-134
5 HP	1949	F-189J	5017-105	FG-470	5010-134
7.5 HP	1949	F-189K	5013-105	FG-470	5010-134
3.6 HP Single	1950	F-189Q	1025-105	FG-470B	5110=134
3.6 HP Single	1954	F-189Q-7	1055-105	FG-1573C	1355-134
5HP	1950	F-189R	5117-105	FG-470B	5110-134
7.5HP	1950	F-189S	5113-105	FG-470B	5110-134
7.5 & 10 HP	1952	F-189T	3345-105	FG-470B	5110-134
7.5 & 10 HP	1954	F-189T-7	1355-105	FG-1573C	1355-134
30 HP	1955	F-1400	3655-105	FG-2331	1355-134
33 HP	1956	F1400B	3665-105	FG-2546	3665-134
40 HP		GM-2065	3675-3-105	FG2546	3665-134
	1956	GM-2065-C	3675-3-105	FG-2723 (LIGHT)	2675-3-134
				FG-2725 (LIGHT)	3673-3-134
40 HP [77]	1956	F-2065	3675-105	FG-2546	3665-134

SKIL CORPORATION

178685	10500	2.1	60	15	60
180685	9000	1.8	75	17	75
312820	9000	1.8	75	17	75

SLICK MAGNETOS

7-41A	12,500	1.7	70	36	60
11-46	12,500	1.6	70	47	65
15-41A	11,000	.7	70	42	70
20-CMA	12,000	.7	70	37	60

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[76]* Ground One End Of secondary for this test

[77]* Those models which are wquipped with Eisemann Magnetos have Eisemann Coil #H27-984. Refer to respective Phelon or Eisemann specification page for test data on couls listed.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
145-JMA	11,000	.7	70	42	70	
M-1073	12,000	1.6	70	47	65	

SPIEGEL

SEE OUTBOARD MOTOR LISTING

STIHL SAWS

						MAXIMUM DC OHMS (POINTS TEST)
015*/Phelon FG-9430						
020 /1114-404-3200	15000	1.5	70	27	70	1.4
031 /1113-400-1300	15000	1.5	60	18	60	1.4
041 /1110-404-3200	10000	2.0	60	24	65	2.0
045 /1115-404-3200	10000	3.0	70	33	95	
051 /1111-400-1305	15000	2.0	60	28	60	1.6
08S /1108-404-3200	10000	2.5	70	30	75	2.5

SYNCO

21565, 21565-1, 21575	10,000	20.0	60	70 amp	60*

TECUMSEH

						MAXIMUM DC OHMS (POINTS TEST)
24439	7500	2.0	75	17	70	
29632	7000	2.0(coil in mag) 1.8(coil out of mag)	55	13	65	
30546	7500	1.3	60	13	60	
30560	10000	1.5	60	15	70	
30560A	10000	1.5	60	15	70	
27531	9000	1.2	55	17	70	
29176	7500	2.0	75	17	70	
32014	15000	1.5	50	25	50	
610242	7500	2.0	75	24	70	
610287	7500	2.0	75	17	70	
610292	7500	2.0	75	17	70	
610298	9500	2.0	75	24	70*	
610323	7500	2.0	75	17	70	
610371	7500	2.0	75	17	70	
610466	7500	2.0	75	17	70	
610477	7500	2.0	75	17	70	
610523	7500	2.0	75	17	70	
610524	7500	2.0	75	17	70	
610529	7500	2.0	75	24	70	
610657	12000	1.8	60	23	60	
610657	12000	1.8	60	23	60	
610706	12000	1.4	55	16	55	
610760	4000	1.2	80	16**	50	.31
610761	#					

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
610768	10000	1.1	60	25	60	.65
610783	4000	1.2	80	16**	50	.31
610785	500	.2	50	5***	50	.08
610785A[78]	500	.2	50	5***	50	.08
VOLKSWAGEN						
Bosch /111-905-105E	9000	2.6	60	31	50	
WEST BEND (Now Chrysler Outboard)						
Coil #2A91475-1	12,000	6.0	65	41	70	
WHIZZER						
Whizzer 2624	6000	2.0	65	32	75	
WICO PRESTOLITE	Test with iron core in. Coil out of magneto or off stator Plate.					
18X123C	6000	2.2	70	34	70	FGB left
18X123D	6000	2.2	70	34	70	FGB right
FAC-3046	1000	.4	55	37 AMP	55	
FWM-1035	10000	1.1	60	24	60	
FWM-1038	10000	1.1	60	22	60	
FWM-2003	10000	1.8	60	22	60	
FWM-3003***	7000	1.5	55	20	55	
IKBX-103	5000	2.0	70	31	70	EK right
IKBX-104	5000	2.0	70	31	70	EK left
X11049	7500	1.0	50	12	60	
X11180	7000	1.0	60	15	60	
X11205	7000	1.1	50	12	65	
X11260	6500	1.3	50	13	65	
X11352	8000	.9	60	16	60	
X11406	8000	.9	60	16	60	
X11477	8000	.9	60	16	60	
X11563	9000	7.5	75	41	85	

[78]# 400 ohms minimum between ignition unit terminal and ground. This can be checked on Model 51 Graham tester by using the "secondary Contimuity" position

*Ground out one secondary terminal while testing other.

** Not over ten Seconds.

*** With coil test Amplifier amplified reading only (part of "CD-1" Modification.) If your tester does not have coil test Amplifier, ignor meter reading and make sure coil fires steadily at specified Gap Index.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
X11600	9000**	1.2	80	29	90	
X11654	7000	1.1	55	13	65	
X11675 group		2.3	50	14		
X11737 single		1.1	50	7		
X11856	7500	1.3	50	13	70	
X12281		.8	50	9		
X12302	9000	1.1	60	19	60	
X12317#	7000	1.3	50	19	70	
X12325	7000	.9	50	12	65	
X12609	8000	1.1	55	29	55	
X12660	8000	1.2	60	16	65	
X12810	25000	1.6	50	19	50*	
X12905	9000	1.2	55	17	70	
X12910	9000	1.1	55	17	65	
X12915	9000	1.1	55	17	65	
X12920	9000	1.1	55	17	65	
X12925	9000	1.1	55	17	65	
X12935	9000	1.1	55	17	65	
X12940	10000	1.2	65	21	70	
X13000	8000	1.2	65	21	70	
X13313	9000	1.2	55	17	70	
X13655	9000	1.1	55	17	65	
X14171	10000	1.7	65	20	65	
X14276	9000	1.2	55	17	70	
X14295	25000	.8	60	26	50	
X14381	10000	1.1	60	22	65	
X14501	10000	1.1	60	22	65	
X14877	13000	1.1	60	22	60	
X16343	10000	1.7	65	27	65	
X16381 & X16389	9000	1.1	55	17	65	
X16669B	10000	1.7	65	20	65	
X16797B	9000	1.1	55	17	65	
X16809B, X16825B, X16893	10000	1.7	65	27	65	
X16979B	9000	1.1	55	17	65	
X17085B, X17108-B	10000	1.7	65	27	65	
X17462C	10000	1.7	65	20	65	
X17566B	10000	1.7	65	20	65	
X18015	9000	1.7	65	24	60	
X18050	7000	1.7	65	24	60	
X18086	8000	1.7	65	26	70	
X18122	1500	.6	60	26 AMP	65	
X18248	10000	1.1	60	22	60	
X1910	7000	1.0	60	26	60	AH
X2156	6000	2.0	60	21	65	FW
X2631	7000	3.0	60	32	80*	OC right HD
X2632	7000	3.0	60	32	80*	OC left HD

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
X2766	8500	1.0	50	18	65	A & C
X2770	9500	1.0	45	15	65	AP
X2770B	9500	1.0	45	17	65	APH
X2937	4500	1.2	65	15	75	FW
X30089	7500	2.9	50	27	55	
X30108	10000	8.7	60	35	65	
X3040 A, B, C, D	10500	1.7	50	20	65	FW
X3430	9000	1.1	55	24	60	EM
X3682	7000	1.7	55	24	60	J & JM
X4791	10500	1.7	50	20	65	FW
X4943	5500	2.0	55	18	65	FW
X5345	7000	1.8	60	23	70	FW
X5460C	6000	1.9	55	20	65	FW
X5700	7000	1.2	60	24	65	X
X5700B	9000	1.2	80	28	90	
X5700C	8500	1.5	50	18	70	
X5953	6000	2.0	60	21	65	FW
X6111	5000	2.1	50	18	65	FW
X6664	7000	0.8	50	11	75	XH2D
X6718	5000	1.5	50	17	70	FW
X6762	7000	.7	60	18	55	XH-1
X6872	6000	2.0	50	25	60	XB
X6872B	8500	3.6	50	22	60	XB
X6933	6000	2.0	50	17	65	FW
X6936	6500	1.2	50	24	60	XHD
X6936B	9000	1.2	80	28	90	
X6963	6000	2.0	50	17	65	
X6985	5500	2.0	55	18	65	FW
X7120	4800	1.7	50	18	65	FW
X7233	7000	1.5	50	13	75	FW
X7325	5000	1.8	65	22	70	FW
X7345	5500	1.8	60	22	70	FW
X7438	7000	1.5	50	13	75	FW
X7453	8000	1.8	60	24	65	FW
X7467	4500	1.3	50	15	75	FW
X7500	4000	1.4	50	16	70	FW
X7536	8000	1.2	60	17	70	FW
X7560	7500	1.3	60	16	65	XHD-1
X7585	6500	1.0	45	14	65	FW
X7680	5000	1.5	50	17	70	XH
X7744	7000	1.2	60	24	65	XH-1 & XHS-1
X7886	7000	.7	60	18	55	XHS-2D
X7895	7000	.8	50	11	75	XH-1
X8545	7000	.7	60	18	60	FW
X8668	8000	1.2	60	17	70	
X8786	5000	1.5	65	21	70	FW

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
X8795	6500**	1.5	60	18	70*	XB
X8798	8500	3.6	50	22	60	FW
X8877	7000	1.1	50	12	65	XH-2D
X8964	7000**	1.0	60	17	65*	FW
X9055	7000	1.2	50	12	65	FW
X9144	12500**	1.6	60	21	70*	
X9295	6000**	1.5	65	22	70*	
X9533	5000	.9	60	20	70	
X9692	7000	1.1	50	13	65	
X9767	6500	1.1	60	14	70	
X9965	7000	1.0	60	15	60	
XX4658B [79]	8000	1.8	60	24	65	FW

WIZARD (SEE MERCURY MARINE)

YAMAHA

168-82310-70 (marked diamond tu-29 12V)	15000	7.5	70	42	70
DT1, DT1MX, RT1, RTLMX Motorcycles 214-82310-40	10000	5.5	55	21	60
AT1, R5,XS1 Motorcycle 227-82310-60 (marked 12 V CM11-50 107)	15000	6.0	70	42	70
HT1, JT1, CT1,AT1MX Motorcycles 248-82310-11 (marked AC CM61-50	15000	6.0	70	42	70
8SL-338B, GP-396, SS-433 Snowmobile 06-82310-40 (marked HMJ-7 Mitsubishi)	20000	4.2	70	40	70
SL-292 Snowmobiles 812-82310-40	10000	8.5	55	26	55
185-81312-10	Lighting coils, check for continuity only.				

[79] * Connect one secondary terminal to primary for this test.
*** Between two secondary terminals. when making gap index test ground on secondary terminal.
*** Includes coil, core and condenser, On Graham Model 51 Testers, The condenser can be tested on series resistance switch position. This test tells shether the conkenser is properly connected across the coil primary circuit. If series resistance schecks high (nore than one ohm on series resistance neter scale) discard coil. If condenser is shorted, this will show on normal coil test procedure on any Model Graham Tester.
Note: Coils without a buitl-in condenser will show little or no reading when coil primary is connected to series resistance test position.

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO
207-81312-20	Lighting coils, check for continuity only.					
214-81312-21	Lighting coils, check for continuity only.					

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO

OUTBOARD MOTOR LISTING

All outboard Motors listed below use one or all of the coils listed below.

375189	4500	1.0	65	25	65
580040	4000	1.3	75	31	75
580084	4000	1.0	70	26	70
580118	4000	1.2	75	33	75

ATLAS

375189	1A5, 2A3, 2A7
580040	-28A
580084	1A9, 2A7
580118	3S10A, 3D10A, 5S10A, 5D10B, 12S10B

BUCCAHEER

580040	2B8
580084	1B10, 1B9, 2B7
580118	3S10B, 3D10B,5S10B, 5D10B, 12S10B

GAMBLE

375189	25-7945A, 25S,25DL, 25-3257, 25-7955-47-3S, 25-7956, 25-7957A, 25-7958A,50S, 50DL, 50-S-A, 25-3260-50DLA, 25-7970-47-S-D, 25-7971, 25-79721, 79721-25
580040	25-7980A
580084	25-7958A, 7972A
580118	25-7959A, 25-7973A, 25-7981A

GOODRICH

580118	64-170, 64-180, 64-190

GOODYEAR

375189	025-3562, 025-3562A, 025-3555, 1G1, 1G4, 025-3563, 025-3566, 025-3550, 2G2, 2G3, 025-3564
580040	025-3565
580084	025-3562A, 025-3566, 025-3564
580118	025-3567, 025-3568, 025-3569, 025-3570, 025-3571

SPEIGEL

COIL TYPE	MAXIMUM SECONDARY RESISTNACE	MAXIMUM PRIMARY RESISTANCE	COIL INDEX	MINIMUM COIL TEST	MAX GAP INDEX	MAGNETO

580084 230-50-1, 230-50-3, 230-50-5, 230-50-12
580118 230-51-3S, 230-51-3D, 230-51-12S

MONTOGOMERY WARD

375189 84GG9003A, 94GG9003B, 24GG9351A, 64GG9005, 74GG9005, 74GG9006, 84GG9007A, 94GG9009A, 14GG8826, 14GG8827, 54GG9010, 54GG9011, 74GG9011, 74GG9012, 84GG9014A, 94GG9014A
580040 84GG9017A, 94GG9017A
580084 94GG9003B, 94FF9009A, 94GG9014A
580118 15GG9004, 14GG9009, 15GG90015, 15GG9014, 15GG9018, 15GG9017

WESTERN FLYER

3755189 121W, 122W, 251W, 252WA

GRAHAM-LEE
CONDENSOR TEST SPECIFICATIONS
TABLE 3

CONDENSOR LISTING 1
- AMERICAN BOSCH 1
- ARCTIC CAT SNOWMOBILES 1
- AUTO LITE 1
- BENDIX CONDENSERS 1
- DELCO REMY 2
- CHRYSLER OUTBOARD 2
- CLINTON 2
- DESA INDUSTRIES 2
- CUSHMAN 2
- EDISON SPLITDORF 2
- EVINRUDE MOTORS * 2
- FAIRBANKS-MORSE 3
- GERMAN BOSCH 3
- HOMELITE 3
- JOHNSON MOTORS 3
- MALL TOOL COMPANY 3
- MALLORY 3
- MUNCIE NEPTUNE 3
- PHELON 4
- PIONEER SAWs 4
- POLARIS 4
- REMINGTION CHAIN SAWS 5
- REO LAWN MOWERS 5
- ROPER OUTDOOR PRODUCTS 5
- SCOTT ATWATERMFG. CO. Firestone Corsair, Hiawatha Outboard Motors 5
- SKILL CORP 6
- STIHL 6
- SYNCO 6
- TECUMSEH 6
- WHIZZER 6
- WICO PRESTOLITE 6

CONDENSOR LISTING

AMERICAN BOSCH

CONDENSOR TYPE	MINIMUM	MAXIMUM
CW 5210	.33	.39
CW 52110	.28	.35
CW 52131	.25	.28
CW 522	.33	.39
CW 5224	.22	.27
CW 5232	.70	.85
CW 5239	.22	.27
CW 5252	.33	.39
CW 5260	.22	.27
CW 5263	.22	.27
CW 527	.22	.27
CW 5279	.22	.27
CW 5291	.33	.39
CW 5292	.28	.35
CW 5293	.22	.27
CW 5296	.33	.39
CW 5297	.70	.85
CW 5298	.33	.39
CW 5299	.70	.85

ARCTIC CAT SNOWMOBILES

CONDENSER[1]	
3000-900	.22 NOM
3000-948	.22 NOM

AUTO LITE

CONDENSOR TYPE	MINIMUM	MAXIMUM
IAT 3076L SERIES	.21	.25
IAT 3076R SERIES	.21	.25
IAT 3076-AS-DS-ES-RA	.25	.28
IBB 2042 SERIES	.25	.28
IG 2671 SERIES	.20	.25
IG 3927 SERIES	.28	.32
IGB 1025 SERIES	.20	.25
IGH 3076 SERIES	.20	.25
IGW 3075C SERIES	.20	.25
IGW 3128A SERIES	.28	
IGW 3139	.23	.26
XA 559 SERIES	.25	.28

BENDIX CONDENSERS

CONDENSOR TYPE	MINIMUM	MAXIMUM
02-755Y	.17	
10-102513	.78	
10-102514	.78	
10-12049	.17	
10-15061	.17	
10-164005	1.10	
10-17453	.25	
10-17889	.17	
10-17892	.22	
10-19188	.24	
10-23186	.16	
10-29443	.70	
10-3159K	.29	
10-32556	.16	
10-32603	.20	
10-3373Y	.25	
10-349276	.30	
10-37636	.18	
10-382681	.30	
10-382681-1	.30	
10-382807	.11	
10-38350W	.15	
10-4341	.15	
10-51658	.16	
10-51676	.30	
10-52582	.40	
10-53176Y	.15	
10-53229	.22	
10-54916	.15	
10-54954	.15	
10-55208	.15	
10-55555	.14	
10-56107	.15	
10-56549	.15	
10-58217X	.15	
10-58223Y	.15	
10-58224Y	.15	
10-5925	.17	
10-61650	.18	
10-70141	.15	
10-70162	.27	
10-7461-2	.25	
10-76413	.35	
10-76492	.15	
10-7713-2	.25	
10-7713-3	.30	
10-77325	.006	
10-79125	.15	
10-79168Y	.27	
10-79188	.15	
10-81927	.17	
10-81956	1.50	

[1]See tester instruction manuals for additional test information

CONDENSOR TYPE	MINIMUM	MAXIMUM
10-81958	.70	
10-82104	.15	
10-82207	.29	
10-85252	.60	
10-85256	1.50	
10-86610	.15	
10-9372Y	.24	
10163131	.30	
1077761	.60	

DELCO REMY

1869704	.18	.23
1882239	.29	.34
1911095	.28	.38
1917580	.4	.6

CHRYSLER OUTBOARD

12042	.28	.33
12117	.16	.20
12119	.26	.30
12139	.26	.30
12143	.16	.20
12178	.160	.2
12181	.16	.20
12196	.26	.30
12357	.16	.20
14022-1	.38	.40

CLINTON

	Test to Standard Limits	
	135-31-500	.15 - .19
	135-251-500	.15 - .19
C3416	135-151	.15 - .19
P2053	135-24	.12 -.16
P5549	135-27-500	.22 - .27
P5589A	135-29-990	.15 - .19
P5599A	135-30-500	.15 - .19
P5736M	135-33-500	.15 - .19
P5758	135-33-500	.25 - .27
P7219	135-261-500	.15 - .19

DESA INDUSTRIES

688S5	.16	.20

CONDENSOR TYPE	MINIMUM	MAXIMUM

CUSHMAN

60 series scooter	510478	.30 - .37
	X-5800	.16 - .20
50 series scooter * all Commercial enginer	X-2186	.16 - .20
Phelon GM-994 Series Magneto All scooter engines used alternately since 60 series	FG-1019	.12 - .16
Scooter Engines 1959 & 1960 [2]	X-11397	.16 - .20

EDISON SPLITDORF

6285	.11	.13
6286	.11	.13
6935	.11	.13
7511	.11	.13
8429C	.09	.11
51389	.11	.14
51441	.11	.14

EVINRUDE MOTORS[3] *

170002 *	.3	
170067 *	.1	
170251 *	.3	
170384 *	.2	
171311 *	.2	
171448 *	.1	
171449	.09	.125
171470	.27	.36
171471	.18	.25
201484	.16	.24
201753	.16	.24
300153	.15	.205
480422	.25	.29
510173	.18	.22
580256	.35	.41
580321	.18	.22
580422	.25	.29
677299 *	.15	

[2] *ground one secondary terminal to primary

[3] It is suggested that tolerances of .03 mfd. plus or minus be allowed (*)

CONDENSOR TYPE	MINIMUM	MAXIMUM

FAIRBANKS-MORSE

A2433 #1	.38	.43
A2433 #2	.33	.38
A2433 #3	.25	.30
A2433 #4	.22	.27
AX-M-R2422	.17	.23
AX2433	.27	.23
B2433	.30	.33
BX2433	.16	.19
CX2433	.28	.36
DX2433	.28	.36
EX2433	.17	.23
FX2433	.28	.36
GX2433	.16	.19
HX2433	.28	.36
JX2433	.17	.23
K2433	.17	.23
KX2333	.28	.36
L-V2433	.37	.43
L2433	.33	.38
M2433	.17	.33
NX2433	.28	.35
PX2433	.3	
QX2433	.28	.35
R2433	.17	.23
RX2433	.37	.42
S-X-Y2433	.28	.36
S2433	.28	.33
T2433	.18	.23
TX2433.	.28	.35
V2433	.35	.40
X2433	.28	.33
Y2433	.35	.40

GERMAN BOSCH

1-237-330-037	.32	

HOMELITE

68711	.16	.20
90756	.21	.27

JOHNSON MOTORS

300153	.15	.21
510172	.15	.21
510173	.18	.22

CONDENSOR TYPE	MINIMUM	MAXIMUM
580256	.37	.41
580321	.18	.22
580422	.25	.29
677299	.12	.18
71-1555	.16	.20
72-1036	.8	.24
72-702	.28	.32
72-864	.27	.33
72-873	.20	.24
72-996	.8	.24

MALL TOOL COMPANY

MODEL & MANUFACTURER	MALL NO.	MFG. NO.
10-11 Scintilla	32483	10-3835ow
12 Phelon	21593	FG-458B
12A Phelon	21593	FG-458B
23-14 B&S		B-291369
2MG Scintilla	43879	10-86610
3MG Scintilla	43879	10-86610
4MG Scintilla	43879	10-86610
5MG Scintilla	43879	10-86610
6 B&S		B-292589
6-7 Scintilla	25976	10-51658
7G Scintilla	32483	10-3835ow
8 Scintilla		
8G B&S		B-29830
GP Scintilla	43879	10-86610
IMG Sintilla	43879	10-86610
OMG Scintilla	42403	10-79168
Wico	40507	X-7529
Wico	37393	X-7372

MALLORY

25010-24	.24
25010-36	.36
400	.3
401[4]	.27

MUNCIE NEPTUNE

	PHELON CONDENSOR NO.	
1.5 H.P. Single	FG-159	(.16 -.18)
1.7 H.P. Single	FG-216	(.16 -.18

[4]*** Do not discark condenser if reading is slightly above or below this value. Other condenser test limits standard.

CONDENSOR TYPE	MINIMUM	MAXIMUM
2.5 H.P. Single	FG-216	(.16 -.18)
3.3 H.P. Single	FG-216	(.16 -.18)
3.3 H.P. Single	FG-471B	(.13 - .15)
Model A-1 Muncie	FG-471B	(.13 - .15)

PHELON

00410-00-D	.15	.19
00471	.13	.19
00471-00-B	.13	.18
00607-00-B	.15	.19
00607-00-B	.15	.19
00955 or CEX 955	.15	.19
00987 or CEX 987	.15	.19
01019	.15	.19
01057	.15	.19
01316	.15	.19
01338	.15	.19
01355	.15	.19
01770	.15	.19
01928	.24	.28
02111	.15	.19
02138	.12	.17
02176	.15	.19
02448	.15	.19
02508	.15	.19
02642	.15	.19
02733	.15	.19
02993	.18	.22
03044	.24	.28
03478	.18	.22
03505	.15	.19
03505-00-M	.15	.19
03597	.24	.28
03693	.15	.19
03723	.15	.19
04016	.18	.22
04082	.15	.19
04312	.24	.28
04449	.15	.19
04477	.15	.19
06048	.15	.19
06048-00-B	.15	.19
06168	.15	.19
06200-00-D	.19	.25
06325	.24	.28
06453	.15	.19
06548	.23	.28
06548-00-B	.23	.28
06867	.11	.15
07022	.15	.19
07047	.18	.22
07130	.15	.19
07146	.18	.22
07157	.15	.19

CONDENSOR TYPE	MINIMUM	MAXIMUM
07157-00-K	.15	.19
07184	.24	.28
07224	.15	.19
07251	.11	.15
07270	.15	.19
07339	.18	.22
07437	.12	.17
07460	.15	.19
07468	.11	.15
07499	.15	.19
07507	.15	.19
07533	.12	.17
07829	.26	.32
07909	.11	.15
08052	.15	.19
08095	.24	.28
08244	.15	.19
08466	.19	.23
08589	.15	.19
08725	.15	.19
08725-00-A	.15	.19
08841	.15	.19
08852	.24	.28
08852-01	.24	.28
08860	.15	.19
08932-01	.23	.28
08977	.15	.19
09072	.15	.19
09221	.15	.19
11184	.18	.22
11239	.15	.19
11655	.15	.19
11746	.15	.19

PIONEER SAWs

Wico Model 6-20	.16	.20
425369		
425373		
425702		
OMC Model NU-F	.18	.22
700		
426528[5]		

POLARIS

ALL NUMBERS TO DATE	.22	.30

[5]See also test procedure for pioneer capacitor discharge magneto at botton of page

CONDENSOR TYPE	MINIMUM	MAXIMUM

REMINGTION CHAIN SAWS

	PART NO. CONDENSER
GP, SL, GL, SL5, SL5R, GL7, GL7R, SL5G, PRO 88	43879 SCINTILLA #10-86610
SUPER 75, SUPER 75A, SUPER 75G, BANTAM, BANTAM "G", SUPER 65	60145 WICO #X-11181
SL5, SL5GB, PRO 88, PRO 88-G	60622 PHELON FG-4449
660, SUPER 660G, SUPER 770, SUPER 770G, SUPER 770GB, SUPER 990	60145 WICO #X-11181
SUPER 880, SUPER 880G	60145 WICO #11181
POWERLITE 4, POWERLITE STD.	64479 PHELON FG-7047

REO LAWN MOWERS

	MFG.	PART NUMBER
552 (below Serial no. 73, 458)	Eisemann	H26-982
566 (below serial no. 6, 300)	Eisemann	H26-982
552 (above serial no 73, 457)	Wico	X-5800
556 (above serial no. 6, 299)	Wico	X-5800
211E (bleow serial no. 4, 005)	Wico	X-5800
338E (below serial no. 1, 001)	Wico	X-5800
211E (above serial no. 4, 004)	Wico	X-7481
338E (above serial no. 1, 010)	Wico	X-7461
404E (below serial no. 5, 869)	Wico	X-5800
404E (above serial no. 5, 869	Wico	X-7461
211F	Wico	X-7461
338F	Wico	X-7461
404F	Wico	X-7461
211G	Wico	X-7461
211G, Type 1	Phelon	FG-458B
338G	Wico	X-7461
338G, Type 1	Phelon	FG-458B
404G	Wico	X-7461
404G, Type 1	Phelon	FG-458B
660G	Wico	X-7461
660G, Type 1	Phelon	FG-458B
Lawnmowers 1956 & 1957	Phelon	FG-2733 or FG-2642
All 1954, 1955, 1956	Wico	X-8959
5240-7	Phelon	FG-2733B
5200-7	Wico	X-8959
5260-7,5230-7	(Type 1)	
5250-7, All others, also 5260-8	Phelon (Type 2)	FG-2733B
M41, M42, M43, M51, M52	Wico	X-11000
M45	Wico	X-11000
M46	Wico	X-11672
M47, M48	Wico	X-11000
M50, M53	(TYPE 1)	
M47, M48	Phelon	FG-2642
M50, M53, M44	(type 2)	
M54	Phelon	FG-2642
M21, M23	Phelon	FG-2176
M57, M58, M60, M61	Phelon	FG-4082
M62, M63, M64, M65	or	
M66, M67, M69, M70	Wico	X12174

ROPER OUTDOOR PRODUCTS

2821R, 9398H and 9648H	.16	.20

SCOTT ATWATER MFG. CO.

Firestone Corsair, Hiawatha Outboard Motors

	YEAR	PHELON	SCOTT ATWATER
4 HP Single	1947	FG-216	476-115
3.6 & 4 HP Sgl	1949	FG-471	5010-115
5 HP	1949	FG-471	5010-115
7.5 HP	1949	FG-471	5010-115
3.6 HP Single	1950	FG471B	5010-115
3.6 HP Single	1954	FG471B	5010-115
5HP	1950	FG-471B	5010-115
7.5HP	1950	FG-471B	5010-115
7.5 & 10 HP	1952	FG-471B	5010-115

CONDENSOR TYPE		MINIMUM	MAXIMUM
7.5 & 10 HP	1954	FG-471B	5010-115
30 HP	1955	FG-2111	3655-115
33 HP	1956	FG-211	3655-115
40 HP	1956	FG-2727	3675-115
40 HP	1956	FG-2727	3675-115

SKILL CORP.

178664	.15	.19
180663	.15	.19

STIHL

015*	Phelon FG-9072A	
020	1114-404-3400	.16 - .22
031	1113-404-3400	.16 - .22
045	1115-404-3400	.16 - .22
6		

SYNCO

2821R, 9398H and 9648H	.16	20

TECUMSEH

24445	.15	.19
25526	.16	20
26641	.15	.19
27949	.15	.19
27949	.15	.19
29164	.16	.20
30548	.12	.14
30548A	.16	.18
32015	.23	.29
610253	.15	.19
610268	.15	.19
610269	.15	.19
610294	.13	.18
610295	.13	.18
610303	.15	.19
610331	.15	.19
610370	.15	.19
610416	.16	.20
610707	.18	.22
610767	.16	.20

WHIZZER

Whizzer 2624	.15	.19

WICO PRESTOLITE

12-X235	.10	.15
EX6367	.16	.20
EX6369	.16	.20
EX6980	.16	.20
FW-1024	.16	.20
X10400	.18	.23
X10455B	.18	.23
X11000	.16	.23
X11181	.16	.20
X11293	.18	.22
X11337	.26	.30
X11362	.26	.30
X11397	.16	.20
X11672	.16	.20
X11762	.16	.20
X11818	.58	.62
X12174	.16	.20
X12264	.26	.30
X12303	.16	.20
X12508	.16	.20
X12513	.16	.20
X12647	.26	.30
X12984	.30	.34
X13299	.16	.20
X13299	.16	.20
X1413	.16	.20
X14497	.16	.20
X14590	.24	.28
X16345	.16	.20
X16628	.16	.20
X16778	.10	.12
X16781	.16	.20
X16835	.16	.20
X16867	.10	.12
X16888	.16	.20
X17102	.16	.20
X17107	.10	.12
X17248	.30	.34
X17767	.16	.20
X17979	.16	.20
X18042	.16	.20
X18059	.16	.20

[6]* see this Number under Phelon Listing

CONDENSOR TYPE	MINIMUM	MAXIMUM	CONDENSOR TYPE	MINIMUM	MAXIMUM
X2186	.16	.20			
X2394	.20	.22			
X2413	.16	.20			
X2414	.20	.24			
X2664	.16	.20			
X2981	.16	.20			
X30028	.18	.23			
X30188	.30	.34			
X3222	.16	.20			
X3517	.16	.20			
X4034	.16	.20			
X4215	.16	.20			
X5321	.16	.20			
X5342	.30	.34			
X5463	.16	.20			
X5614	.16	.20			
X5800	.16	.20			
X5833	.16	.20			
X5847	.16	.20			
X5999	.16	.20			
X6028	.16	.20			
X6029	.16	.20			
X6030	.16	.20			
X6091	.16	.20			
X6138	.30	.34			
X6494	.16	.20			
X6874	.30	.34			
X6916	.30	.34			
X6937	.16	.20			
X7228	.16	.20			
X7331	.10	.15			
X7372	.30	.34			
X7461	.10	.15			
X7529	.16	.20			
X7720	.16	.20			
X8680	.16	.20			
X8807	.30	.34			
X8959	.16	.20			
X9100	.26	.30			
X9106	.18	.23			
X9182	.26	.30			
X9263	.30	.34			
X9293	.26	.30			
X9327	.26	.30			
X9451	.16	.20			
X9686	.18	.20			