

Series Resistance Test:

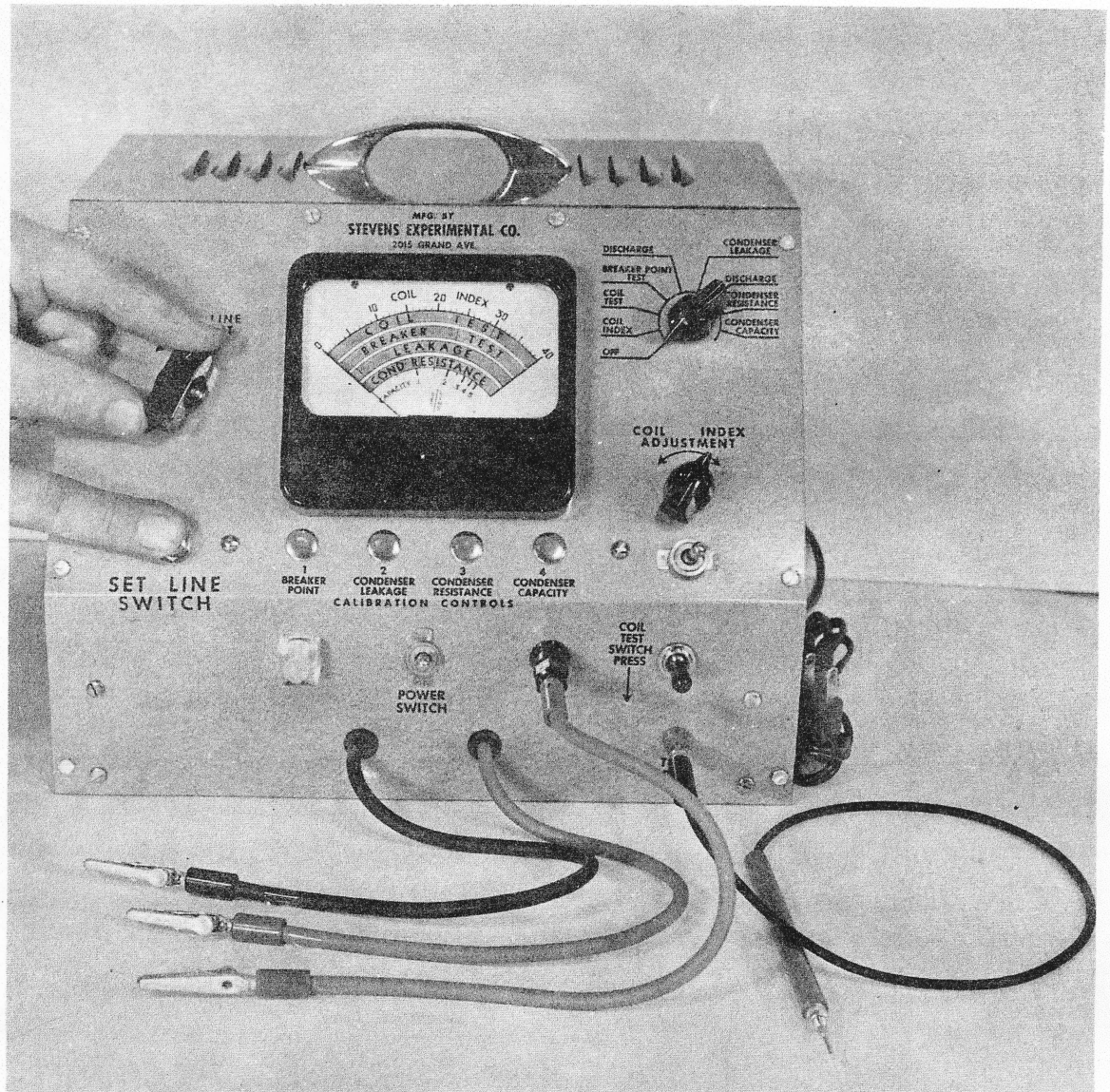
Attach **BLACK LEAD** to Condenser bracket. Attach **RED LEAD** to Condenser terminal. Set Selector Switch to position marked 'Condenser Resistance'.

The condition of the Condenser will be indicated on the Condenser Resistance scale of the meter.

Condensers indicating in the green range are good.

Condensers indicating in yellow range are doubtful and should be replaced if a replacement condenser is readily available.

Condensers indicating in red range should be replaced.

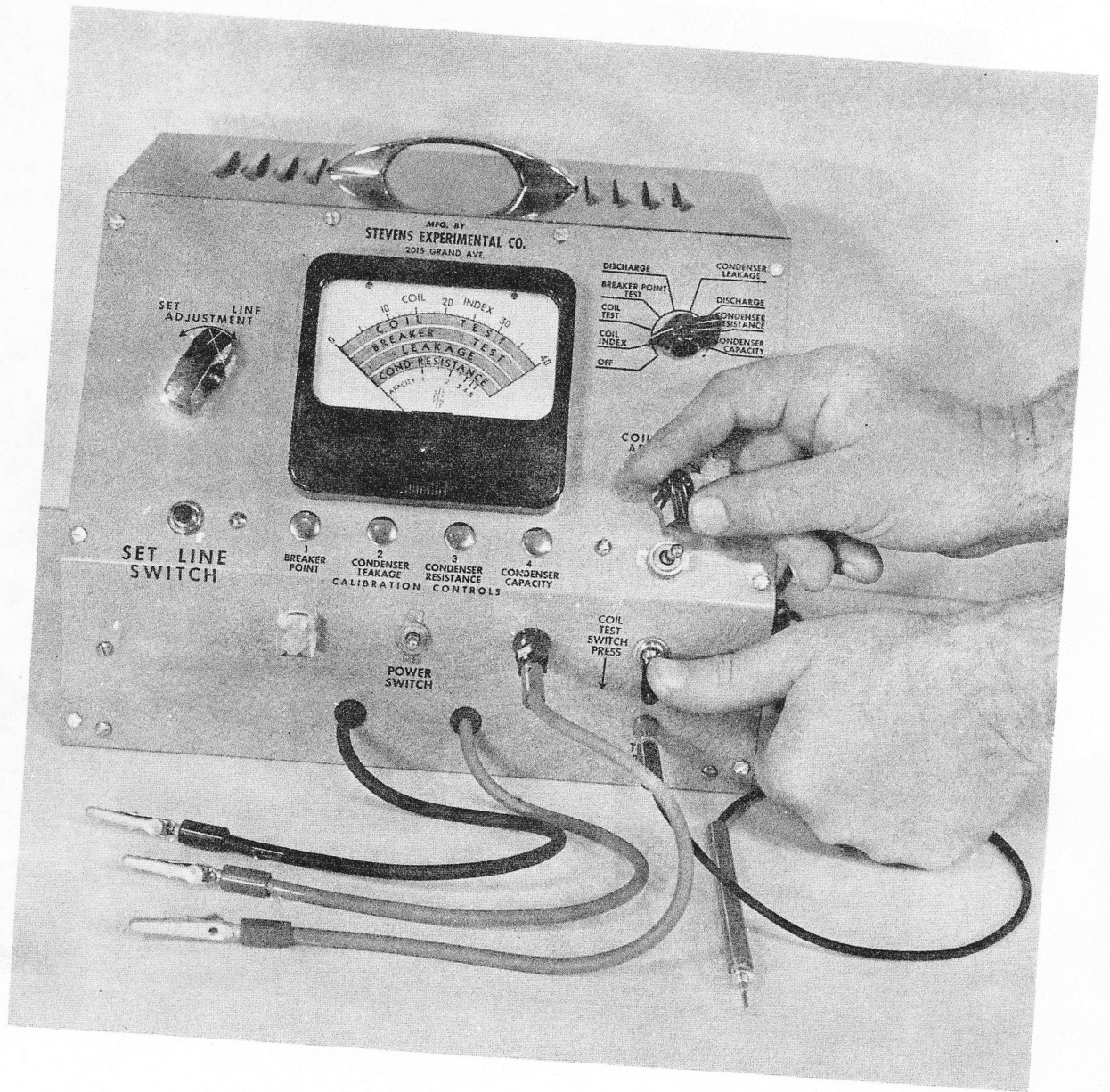


Adjusting Set Line:

Place Power Switch, located in center of lower panel, to 'ON' position.

Depress and hold set line switch, turn set line adjustment knob to bring meter pointer to set line, the line between the two words 'SET' and 'LINE'.

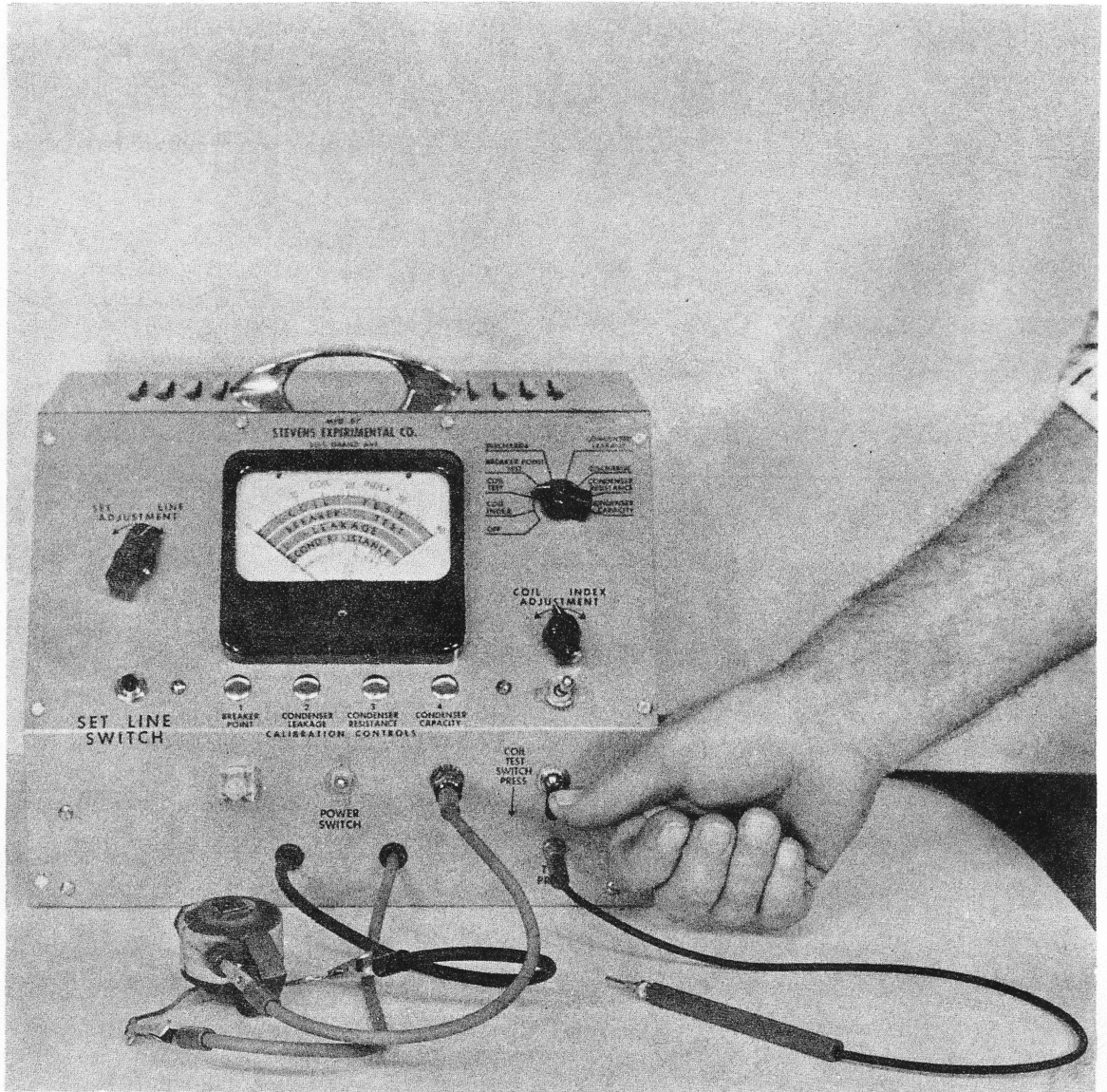
Release Set Line Switch. Set Line may be adjusted while Selector Switch is in any position, or while making a test, by following the above instructions.



Setting of Coil Index:

See index number specified for each coil to be tested. Index numbers appear in back of book.

To set Coil Index - set Selector Switch to position marked 'Coil Index'. Depress and hold Coil Test Switch while setting Coil Index, as in photo. Adjust Coil Index Control to bring meter pointer to the proper index number on the meter scale marked 'Coil Index'.



Testing of Coil:

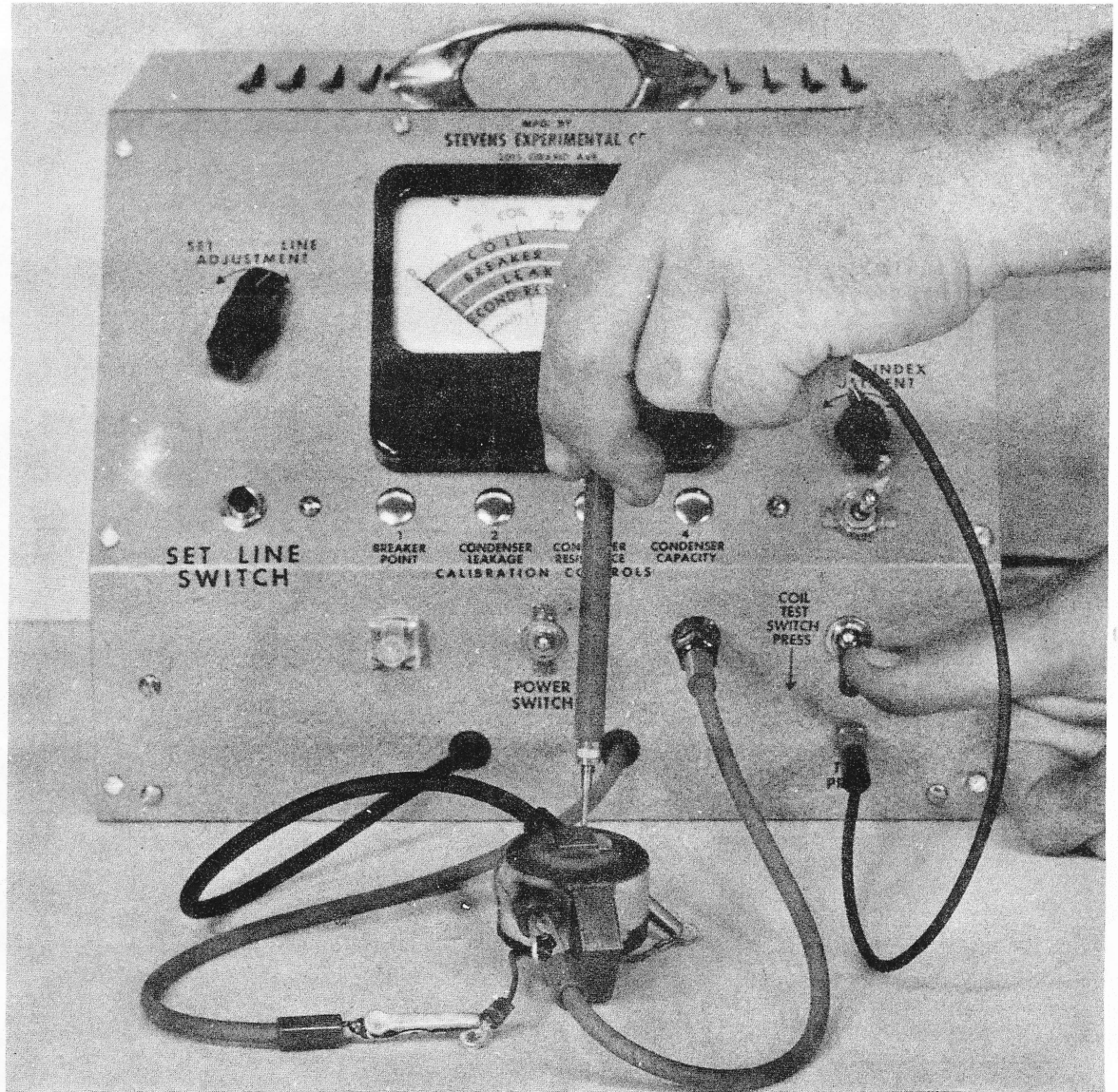
Connect coil as shown in photo. **BLACK LEAD** to ground lead of the coil, **RED LEAD** to Breaker Point lead of coil, High Tension Lead to coil secondary.

After having selected the correct coil index number as specified for the coil on test, set Selector Switch to Coil Test. Depress the Coil Test Switch.

Condition of the coil may be determined at a glance by noting position of the pointer as it comes to rest in the red and green band marked 'Coil Test'. Green indicates a 'good' coil - red a 'faulty' coil.

Coils may be checked on or off the armature plate.

Coils may be connected to the Analyzer while setting Coil Index.



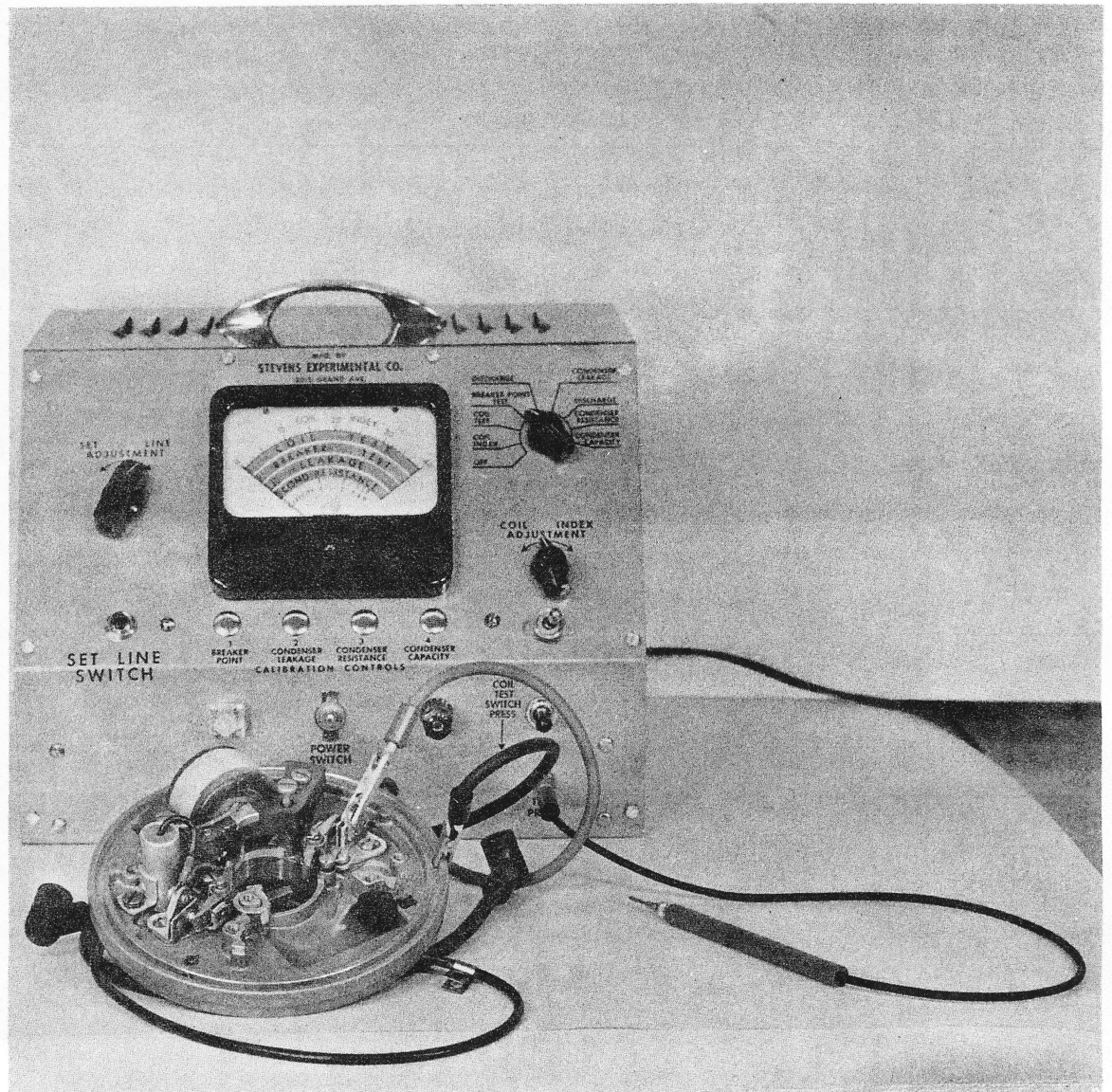
LEAKAGE

Testing for Dielectric Leaks (~~leakage~~ through coil insulation):

Connect coil as shown in photo. Insert probe in jack as shown above (the probe jack is located below the Coil Test Switch).

Depress and hold Coil Test Switch while running the free end of probe over the suspected area of the coil or spark plug wire.

Should a leak be present, the meter pointer will drop back out of the green range or an arc may be observed at the end of the probe.



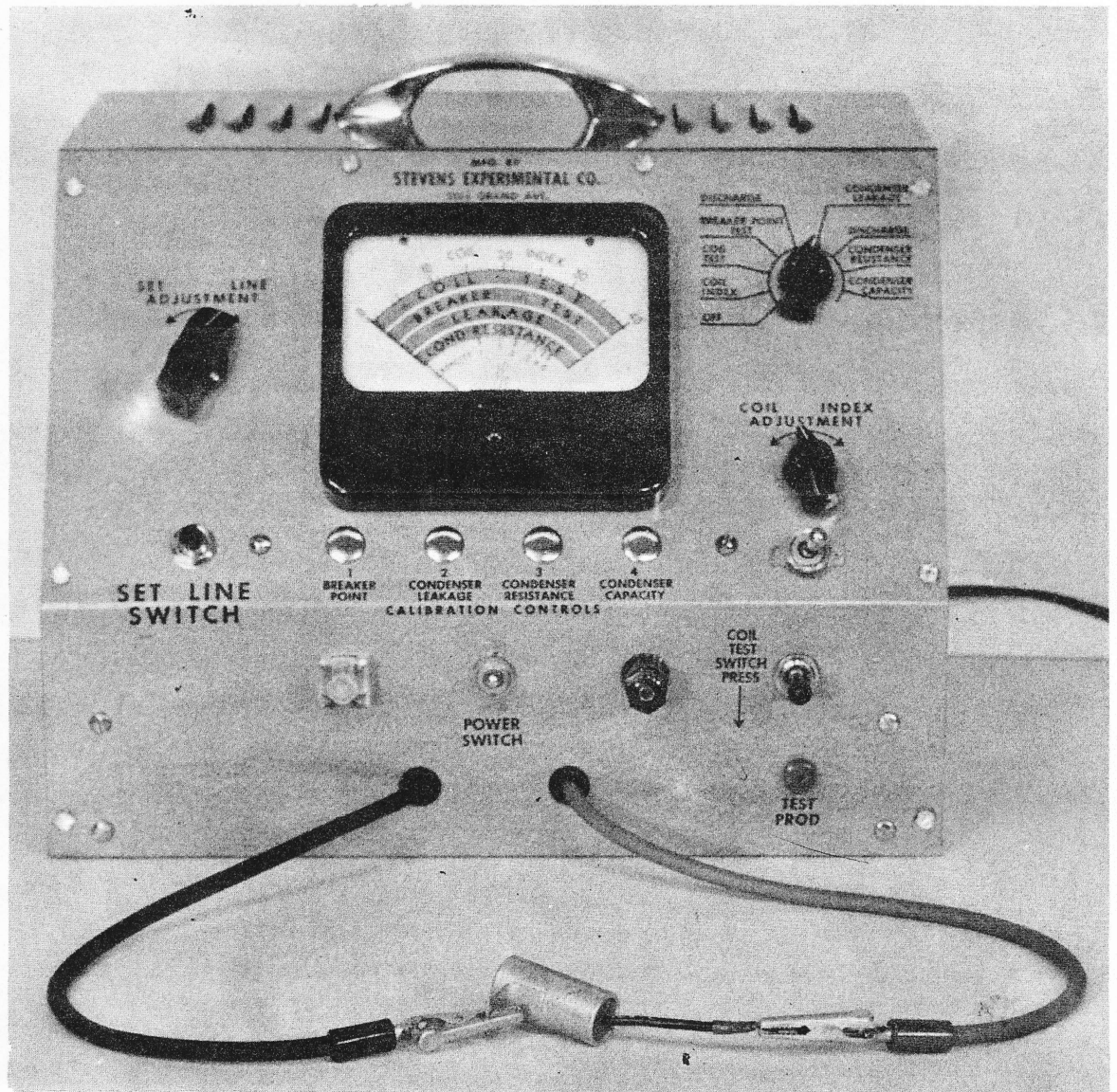
Testing Breaker Points:

Set Selector Switch to position marked 'Breaker Point Test'. Attach BLACK LEAD securely to armature plate casting. Attach RED LEAD to insulated or coil side of breaker point assembly.

A good set of points will indicate in the green range of Breaker Test Band on the meter scale.

Breaker points indicating in the red range of the scale should be cleaned or replaced.

The coil and condenser need not be disconnected for this test.



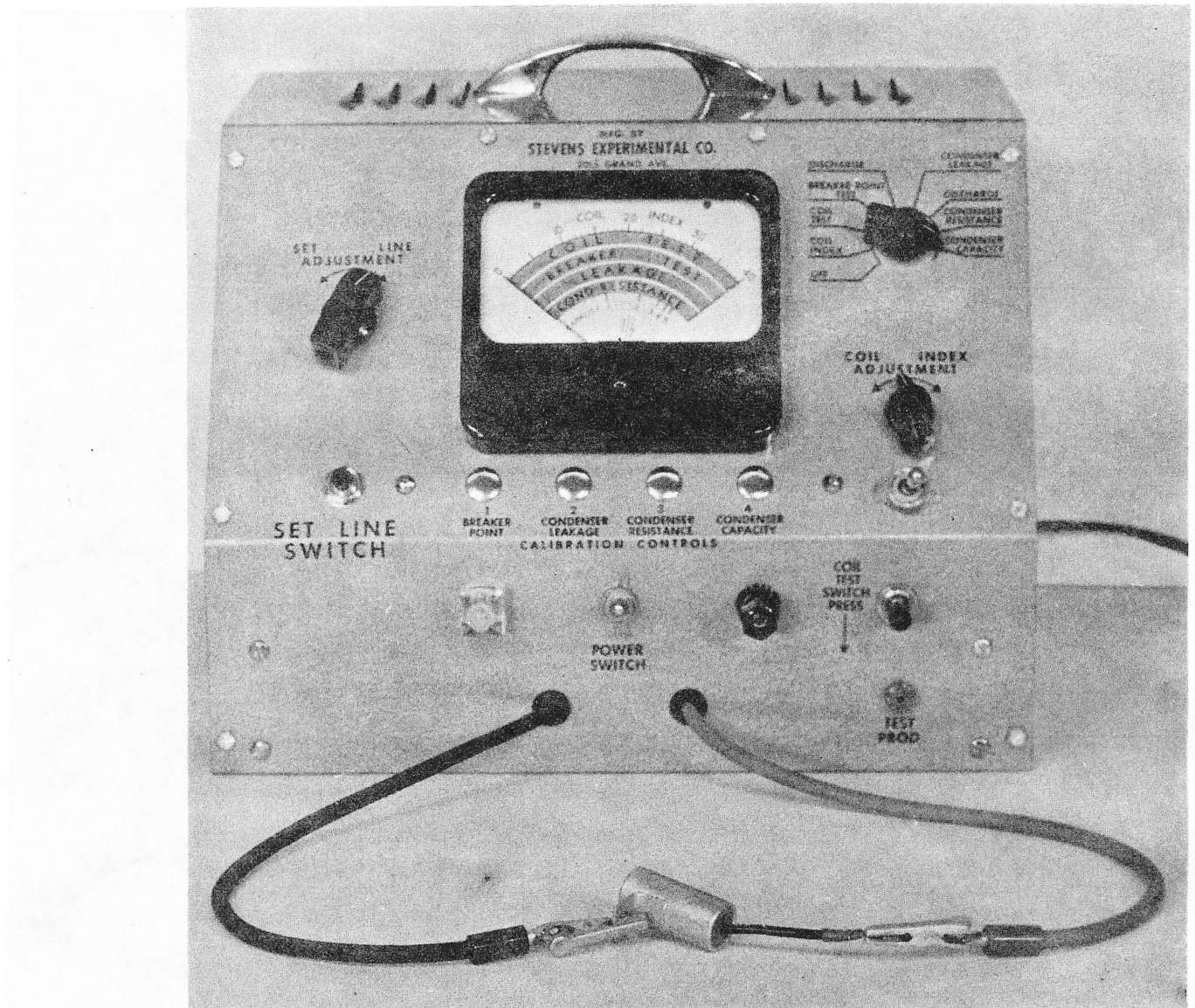
Condenser Leakage Test

Attach **BLACK LEAD** to Condenser bracket. Attach **RED LEAD** to Condenser lead.

Set Selector Switch to position marked 'Condenser Leakage'.

Condition of the condenser will be indicated on the red and green band marked 'Leakage'. Condensers indicating in the green range are good. Condensers indicating in red range are defective and should be replaced.

To discharge condenser after test, turn Selector Switch to either position marked 'Discharge'.



Condenser Capacity Test:

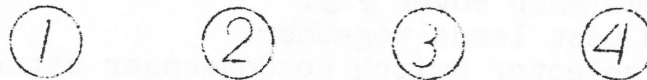
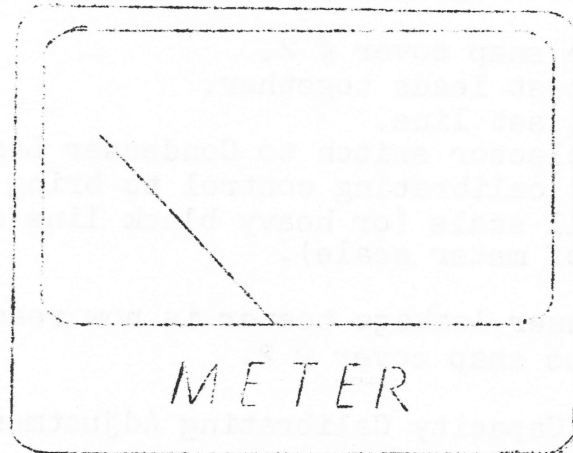
Attach **BLACK LEAD** to Condenser bracket. Attach **RED LEAD** to Condenser terminal. Set Selector Switch to position marked 'Condenser Capacity'.

Read Condenser Capacity on the numerical scale marked 'Capacity'.

Condenser Capacity values will be found on coil charts.

Condensers that do not check within capacity tolerances should be replaced.

INSTRUCTIONS FOR CALIBRATING STEVENS MAGNETO ANALYZER



Due to the aging characteristics of the various components of this analyzer it may be necessary to recalibrate the analyzer after an extended period of use. To recalibrate observe the following instructions:

There are four controls for calibrating this Magneto Analyzer. They are located under the snap covers which are found below the meter as indicated by # 1-2-3-4 in the above sketch.

1 Breaker Point Tester Calibrating Adjustment:

- a. Remove snap cover # 1.
- b. Clip test leads together.
- c. Adjust set line.
- d. Set selector switch to Breaker Point test.
- e. Adjust calibrating control to bring meter needle to .4 on capacity scale (using numerical range as an index).
- f. Breaker Point Tester is now ready for use.
- g. Replace snap cover # 1.

continued on next page

CALIBRATING INSTRUCTIONS (continued)

2 Condenser Leakage Calibrating Adjustment:

- a. Remove snap cover # 2.
- b. Clip test leads together.
- c. Adjust set line.
- d. Set selector switch to Condenser Leakage.
- e. Adjust calibrating control to bring meter needle to full scale (or heavy black line on right hand side of meter scale).
- f. Condenser leakage tester is now ready for use.
- g. Replace snap cover # 2.

4 Condenser Capacity Calibrating Adjustment:

- a. Remove snap cover # 4.
- b. Clip test leads together.
- c. Set selector switch to Condenser capacity.
- d. Adjust set line.
- e. Adjust calibrating control to bring meter needle to full scale (or heavy black line on right hand side of meter scale).
- f. Capacity tester is now ready for use.
- g. Replace snap cover # 4.

3 Condenser Resistance Calibrating Adjustment:

- a. Remove snap cover # 3.
- b. Clip test leads together.
- c. Adjust set line.
- d. Set selector switch to Condenser resistance.
- e. Adjust calibrating control to bring meter needle to .5 on capacity scale (using numerical scale as an index).
- f. Condenser resistance tester is now ready for use.
- g. Replace snap cover # 3.

EVINRUDE MOTORS

Part Number	Switch Setting	Coil Index Number	
		With Heels	Less Heels
191181 NOTE *	A	10 12	
275370 NOTE *	A		20 16
276039 NOTE *	A		20 16
375189	A		22 24
580040	B		23 23
580084	B		21 24
580118	A		21 24
580197	A		21 22
580243	B		23 20

NOTE * Ground one end of secondary when testing this coil.
 Coil must be mounted on a laminated core to test.
 Disconnect condenser from circuit when testing coil on
 armature plate.

GALE PRODUCTS MOTORS

Atlas - Royal

Goodrich - Sea Flyer

Fedway - Sabre

Goodyear - Sea-Bee

Gale - Buccaneer

Montgomery Ward - Sea King

Gamble-Skogmo - Hiawatha

Part No.	Switch Setting	Coil Index Number
375189	A	24 24
580118	A	24 24
580197	A	24 22

Coil must be mounted on a laminated core to test.
Disconnect condenser from circuit when testing coil on
armature plate.

JOHNSON MOTORS

Part Number	Switch Setting	Coil Index Number	
		With Heels	Less Heels
72-641 NOTE *	B	18	10
72-852 NOTE *	A	14	10
72-875	A		19
72-1072 NOTE *	A	16	25
72-1074 NOTE *	A		33
72-1108 NOTE *	A		33
375102	B	15	16
375189	A		24
580040	B		23
580118	A		24
580197	A		22
580243	B		20

NOTE * Ground one end of secondary when testing this coil.
 Coil must be mounted on a laminated core to test.
 Disconnect condenser from circuit when testing coil on
 armature plate.

R. E. PHELON

Part No.	Switch Setting	Coil Index Number
FG 307	B	33
FG 1573C	B	32
FG 2331	B	31
FG 2546	B	33
FG 2731	B	32

COIL NO.
FG 2731 USED ON JACOBSON MOWERS

Coil must be mounted on a laminated core to test.
Disconnect condenser from circuit when testing coil on
armature plate.

SCOTT - ATWATER

Part No.	Switch Setting	Coil Index Number
X 7325-Split Dorf Coil	B	33 31
463-113	B	33 32
470-134	B	33 33 29
476-134	B	33 33
503-113	B	33 32
509-113	B	33 29
513-113	B	33 37
1355-134	B	33 32
3655-134	B	33 33
3665-134	B	33 31
3685-113	B	33 34
3845-113	B	33 33
3885-113	A	33 33

Coil must be mounted on a laminated core to test.
 Disconnect condenser from circuit when testing coil on
 armature plate.

WICO

Part No.	Switch Setting	Coil Index Number
X 5460	B	28 32
X 7120	B	24 32
X 7345	B	24 29
X 7467	B	24 33
X 7500	B	24 37
X 7536	B	28 37
X 11180	B A	29 27
X 11352	B	26 34
X 11477	A	27 33

COIL # 11180
 USED ON JACOBSON MOWERS

Coil must be mounted on a laminated core to test.
 Disconnect condenser from circuit when testing coil on
 armature plate.