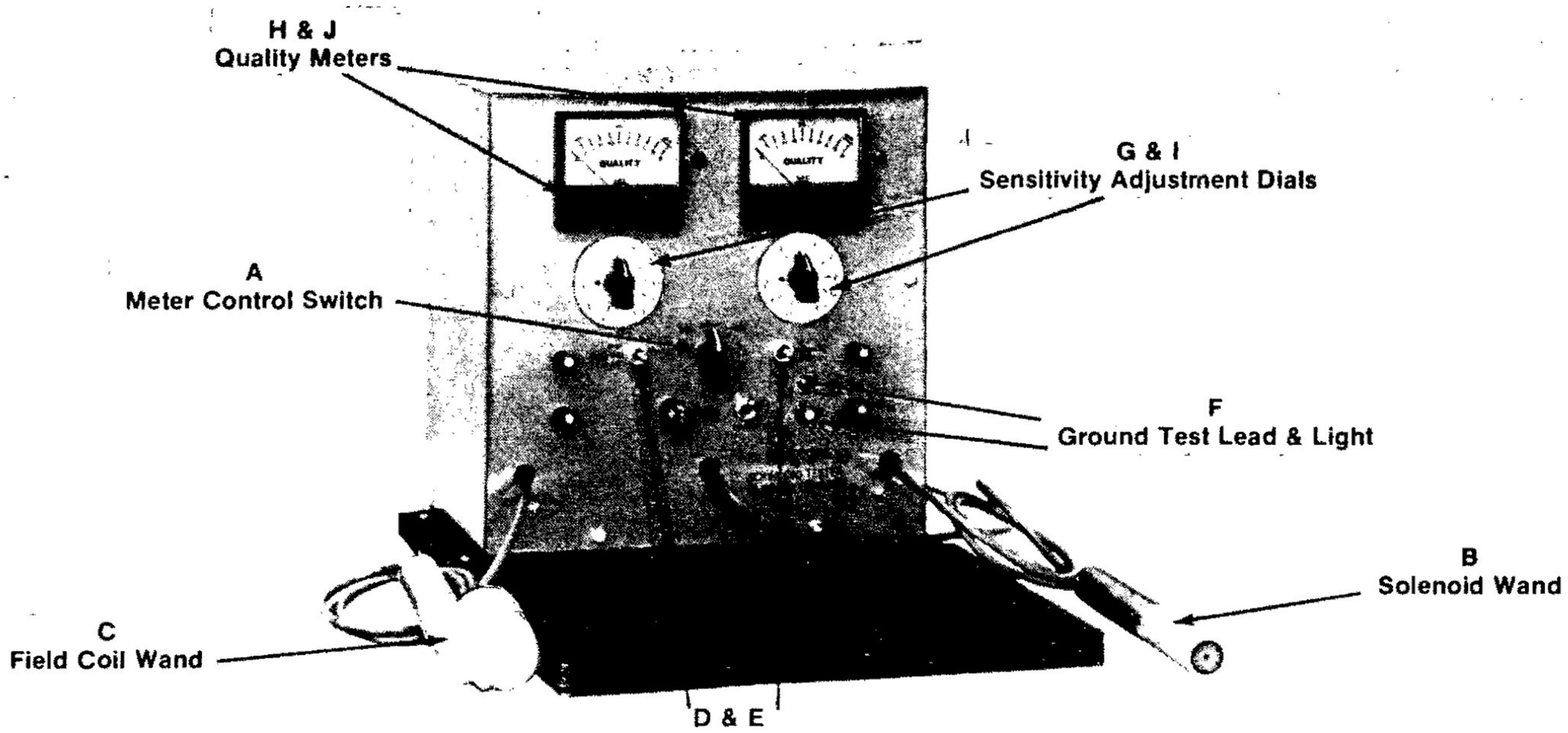
FIELD COIL & SOLENOID TESTER
IPM NO. 0T-9905



MACHINE INDICATORS & FUNCTIONS

A. Meter control switch determines which meter will read left or right or both. (Recommend leaving the switch in both)
B. Solenoid wand transmits a high frequency into the solenoid. The result of the induction is read on meter J and/or H.
C. Field coil wand transmits a high frequency into the field coil(in or out of the case) The result of the induction is read on Meter J and/or H.
D&E. Meter multiplier controls the sensitivity of the meter located directly above them.
F. Ground test lead and light works in conjunction with the black lead directly to its right for a ground test circuit from coil to case.
G&I. Sensitivity adjustment dial allows repeatable setting of meter J and H.
H&J. Quality meters indicate the resultant induction for either wand B and/or C.

MACHINE OPERATION

Solenoid

1. Standard setting, using an O.E.M. solenoid of the strength you require, insert wand B into the solenoid. Set meter control switch A in both positions.
   A. Connect the black test lead (either side) to the common point of the two coils to be tested (S terminal) connect right test lead to the case (ground) connect the remaining red lead to the starter coil.
   B. Turn sensitivity adjustment dial (G&I) until both meters (H&J) read in the center of the dials (F). If necessary use the meter multiple controls (D&E) to aid in adjusting to F.

   Once the meters read F, note the position of all switches for future testing.
2. Connect solenoid to be tested as stated above.
   A. Readings below F indicate a coil with less strength or shorted.
   B. Readings above F indicate a coil with more strength.
   C. A recommended sample standard for testing would be to use two segments (H to F as an acceptable good range) Below H would not be used. Readings above F will be stronger, thus usable.

Field Coils

A. A standard Delco coil (4 series)
   1. Lay the wand (C) in the center of the coil to be tested.
   2. Connect the black test lead (either side) to one end of the coil.
   3. Connect the red test lead to the other end of the coil.
   4. Follow step B under solenoid (above).
   5. Rotate the wand from coil to coil and the single meter reading should not vary more than two segments below F.
B. Ford coil with 5 coils
   1. Black test lead to the starter post.
   2. Red test from the right side to the hot brushes.
   3. Red test from the left side to the ground brush.
   4. To set the pull in coil, point the wand at the coil and open the point. (Set as in step B under solenoid, above) It should read approximately F on the left meter.
   5. The thick coil will read on the right meter when the points are closed. (Set as in step B under solenoid, above) Then rotate the wand to the outer coils and compare their reading. H or above is usable.

*SPECIAL NOTE

Many rebuilders grade their coils by strength and wire size. This allows the maximum usage of the coil by matching them with the different strength armatures.
You establish the standards and can increase or decrease them as your quality demands.