

## BLUE RIBBON SERVICE

The construction of the coil is very similar to that previously used on the F-4 and F-6 magnetos. To remove the coil, first remove the coil cover by taking off the four screws, (See Illust. 82). Then remove the condenser primary wire (9) Illust. 91, from the condenser terminal by following the same procedure as outlined for removing the condenser on Page 45. The next step is to remove the soldered strip (1) Illust. 93, from the top of the pole piece. This strip is used as a ground wire. When applying the soldering iron be careful not to overheat the strip and loosen the joint inside the coil; also do not hold the soldering iron too close to the coil.

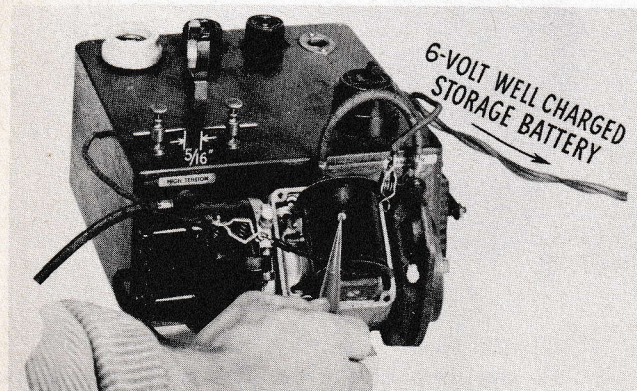
Illust. 93 shows two magnetos with the coil cover removed. Magneto "B", which is of the later construction (71002 and up); shows the coil strip (6) attached under the countersunk screw (4) and requires no soldering iron to remove the coil strip. It is necessary only to remove the screw that holds the coil core. Next remove two screws (4) from each end of the coil core. The coil may then be taken out of the magneto.

**Important:** Before lifting coil out, turn magnet to the neutral position or so pole of magnet bridges air gap between end of coil pole pieces. The instructions for removing coil core and the examination for coil core fit between inter-poles as outlined on Page 14, applies to the H-4 Magneto.

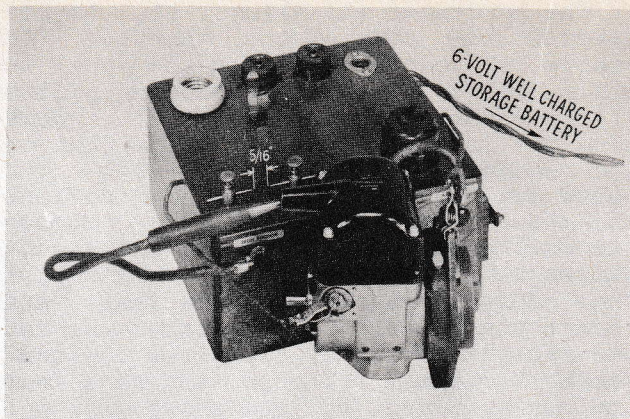
### Testing Condenser

To test the condenser, it must be removed from the magneto and then the test made with either the Neon Condenser Tester No. SE-1064, as explained on Page 15 or the Electrical Test Set, SE-846, as explained on Page 15.

### Testing H-4 Coil

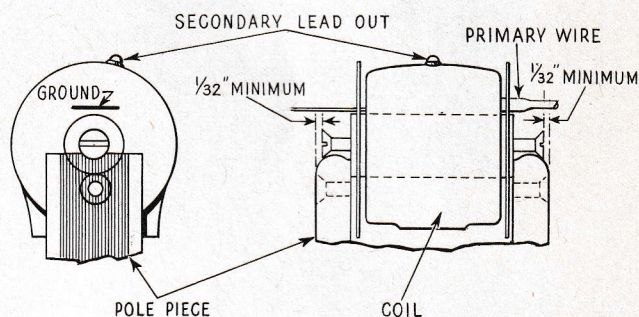


ILLUST. 94--TESTING H-4 COIL WHILE ASSEMBLED TO MAGNETO USING SE-846 WHEN COIL COVER AND CONDENSER ARE REMOVED. FOR METHOD USED REFER TO PAGE 12.



ILLUST. 95--TESTING H-4 COIL WHILE ASSEMBLED TO MAGNETO USING SE-846 WHEN COIL COVER IS IN PLACE AND BREAKER POINTS ARE OPEN. FOR METHOD USED, REFER TO PAGE 12.

When the coil is removed from the magneto it may be tested in the same manner as shown for the F-4 coil on Page 12 (Illust. 18). The coil also may be tested without removing it from the magneto as shown in Illust. 95.



ILLUST. 96--ASSEMBLE COIL CORE MOUNTING SCREWS TO COIL CORE TO MAKE SURE THEY DO NOT BOTTOM IN CORE WHEN ASSEMBLED IN MAGNETO.

Inspect the end insulators (2), (Illust. 93) of the coil. If they are damaged they should be renewed. The end insulators are the same as used on the F-4 and F-6 Magnetos. When replacing the coil, the secondary leadout terminal (7), Illust. 93, should be at an angle of  $15^\circ$  with the center line of the coil. The reason for so positioning the coil terminal is to secure a good contact with the secondary terminal outlet in the coil cover.

Test coil core mounting screw length by bottoming screws lightly in coil core and pressing assembly into position shown (Illust. 96). H-4 mounting screws (4) are  $5/8$ " length.

If either screw head does not fall back of the face of pole piece by  $1/32$ "