Bulletin FM103

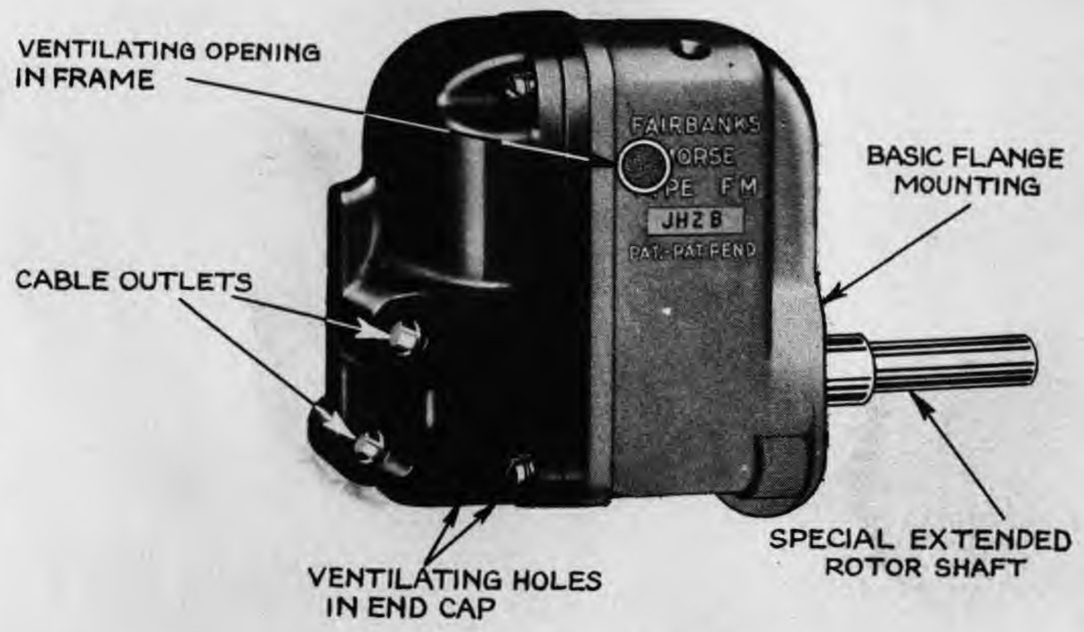
FAIRBANKS-MORSE

IMPORTANT SERVICE INFORMATION

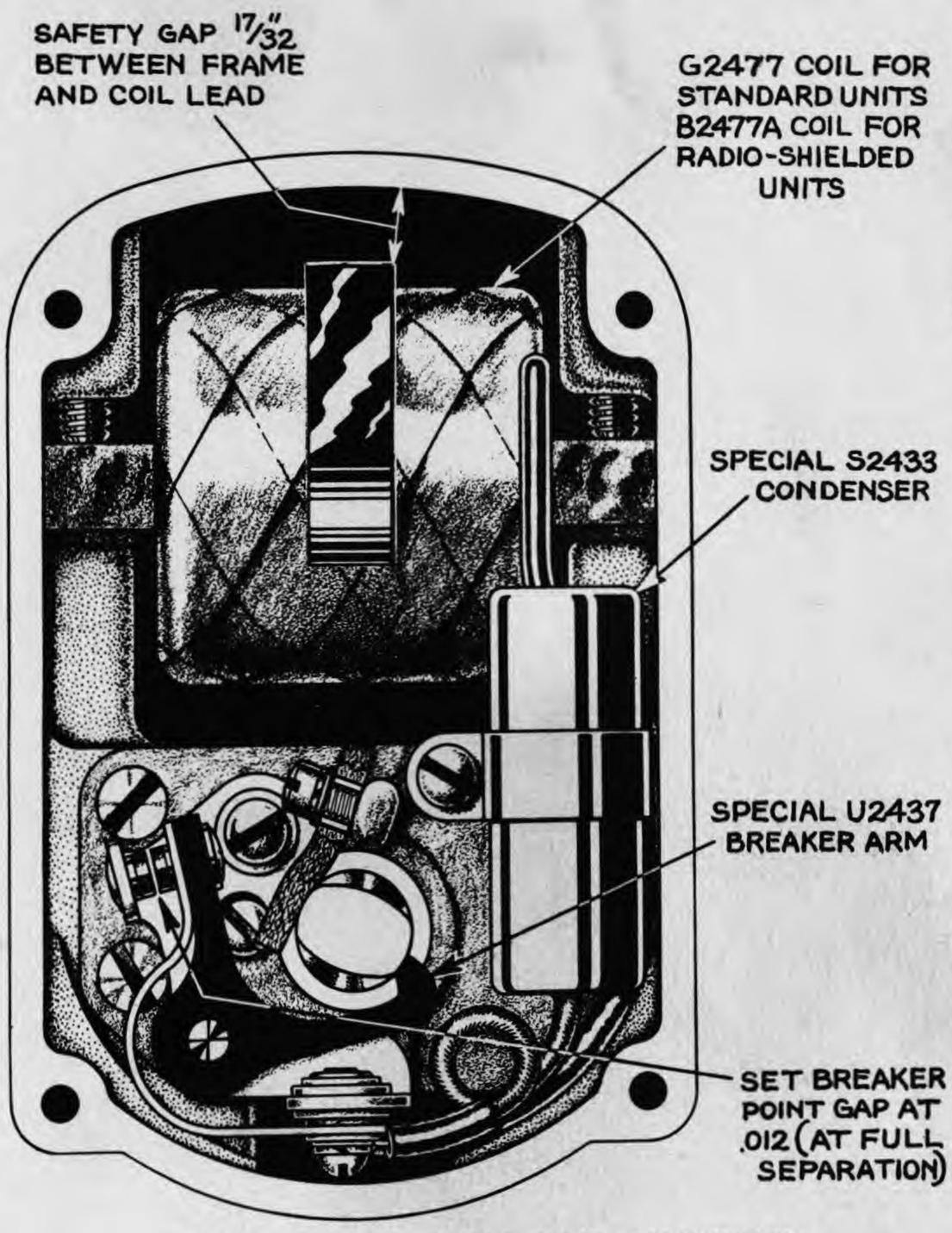
TYPE FM-JH2B & FM-JHE2B MAGNETOS

Adapted Only to Kiekhaefer Corp. Two Cylinder Engines

In former (6 section) manual, file under INSTRUCTIONS.



Type FM-JH2B70 Magneto



TYPES FM-JH2 & FM-JHE2 MAGNETOS CCW ROTATION

APPLICATION

Type FM-JH2 magnetos are built for use only on two cylinder engines made by the Kiekhaefer Corp. of Cedarburg, Wisconsin. Since these units have a number of important differences with respect to the standard Type FM-J magnetos, Service Stations should give close attention to the following explanation.

GENERAL DESCRIPTION

Type FM-JH2 magnetos are of the 180° spark interval design, the distributor rotor being mounted directly on the magnetic rotor shaft. Jump-spark distribution is used, with both frame and end cap having ventilating openings. The basic flange mounting fits the magnetos to an adapter plate on the Kiekhaefer engines. No impulse coupling is furnished, but the magnetic rotor has a special extended shaft. Rotation of the unit is CCW.

TYPE VARIATIONS

Three important variations of the Type FM-JH2 magnetos are being furnished the Kiekhaefer Corp.

(a) Type FM-JH2B70 magnetos are for standard service, using the KX2430 distributor end cap which has side outlets (as illustrated at the left).

(b) Type FM-JH2B70A magnetos are for standard service, using the LX2430 distributor end cap which has vertical outlets.

(c) Type FM-JHE2B70 magnetos are entirely enclosed within metal housings for application to engines requiring completely radio-shielded ignition systems.

HIGH SPEED OPERATION

The Type FM-JH2 magnetos are built to operate at speeds up to 5000 rpm. To provide for this considerable increase in rotative speed over standard models, changes have been made in the construction of the magneto which should be carefully noted by servicemen.

(a) The safety gap between the end of the coil high tension lead and the frame has been increased to 17/32". To secure this safety gap a small portion of the high tension lead of standard G2477 replacement coils must be cut off during installation.

(b) The breaker contact point opening at full separation is .012 inch and must be accurately adjusted for satisfactory performance.

(c) Examine carefully the drawing (at the left) of the end view of the Type FM-JH2 magneto. Please note that the rotation of the cam in relation to the breaker mechanism is the reverse of standard Type FM-J magnetos and that the breaker plate assembly must be made in accordance. In effect, this means that certain standard CW Type FM-J replacement parts are furnished for the CCW Type FM-JH2 magnetos. A special breaker contact arm (U2437) must be used for the Type FM-JH2 magnetos.

FACTORY PUBLICATIONS

Instruction No. 2871 has been issued to provide information covering field service and adjustment of the Type FM-JH2 magnetos. Repair Price List No. 9871 has been compiled to give the necessary repair charts and repair parts lists to describe replacement parts.

Fairbanks, Morse & Co.
Magneto Sales
Beloit Wisconsin

Bulletin FM103
August 1, 1942
Printed in U.S.A.

File Section- *TYPE FM-J*