

FAIRBANKS-MORSE

MAGNETO and ENGINE ACCESSORIES DIVISION
BELOIT, WISCONSIN



INSTRUCTIONS 3133
NOVEMBER 1959

SERVICE INSTRUCTIONS TYPES FM-E, FM-X, FM-XD, FM-XDE, FM-XE, FM-XF, FM-XFE, FM-XFZ, FM-XO, FM-XOR, FM-XR, FM-XV, FM-XVE, FM-XY, FM-XYE, FM-XZ and FM-XZE MAGNETOS



Fig. 1. Standard and Radio Shielded Magneto

GENERAL DESCRIPTION

Fairbanks-Morse Series "X" Magneto, Fig. 1, are of the rotating magnet design the basic principle consisting of inducing and continually reversing magnetic flux lines through an induction coil. This is accomplished by rapidly rotating the permanent magnetic rotor through a stationary field which is the basis of the magnetic circuit.

A one, two, or four-lobe cam actuates a breaker mechanism periodically during each revolution of the rotor. Each time the breaker points are separated by the magnetic rotor cam, an ignition spark is produced. In the one-cylinder magnetos, this occurs once per revolution of the rotor. In the two-cylinder magnetos, the distributor rotor forms an axial extension of the magnetic rotor, the breaker points are separated twice per revolution of the rotor by a two-lobe cam. Similarly, in the Type FM-XV four-pole magnetos, the distributor rotor forms an axial extension of the magnetic rotor. Since the cam of the rotor has four lobes, the breaker points separate four times per revolution producing four ignition sparks. In the standard four-cylinder magnetos, a two-lobe cam is used which produces two ignition sparks per revolution of the magnetic rotor. In all such cases, an ignition spark is furnished to each high-tension outlet once for every two revolutions of the magnetic rotor.

In the FM-XR6 six-cylinder magnetos, a two-lobe cam is used which produces two ignition sparks per

revolution of the magnetic rotor. A gear arrangement is used to connect the magnetic rotor with the distributor rotor and furnish a spark to each high tension outlet once for every three revolutions of the magnetic rotor.

MAGNETO INSPECTION

The entire magneto should be inspected for worn parts every 1000 hours of operation.

End Cap and End Cap Removal

When the usual inspection and spark tests indicate poor magneto performance, the end cap and end cap cover, Fig. 2, if used, should be removed. Tag the ignition cables to insure their proper replacement in the end cap, then remove each high tension cable from its socket. In the Types FM-E, FM-XE4 and FM-XFE1 magnetos, the end cap cover must be removed to expose the high tension cable terminals before the lead wires can be removed. When removing the end cap of the Types FM-X4, FM-XFE1, FM-XR, FM-XOR, FM-XV and FM-XVE magnetos, the end cap cover must be removed and the distributor rotor taken off the end of the rotor shaft before the end cap can be removed.

Carbon Brush and Spring

Magnetos for engines with two or more cylinders have a carbon brush and spring assembly in the center of the end cap cover, Fig. 3. Multi-cylinder, radio-shielded magnetos have a distributor block in the end cap which contains a carbon brush and spring. Examine

Fairbanks Morse Magneto Repair Manual

EW Minium



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