

# 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 Manual

**AN Whitehead**



## **Fairbanks Morse Magneto Manual:**

*Technical Manual* United States Department of the Army,1952      *Technical Manual* United States. War Department,1943      **Field Manuals** United States. War Department,1948      **Instructions No. 2790A Fairbanks-Morse Type RV Magnetos** Fairbanks, Morse and Company,1939      **Operator, Organizational, Direct Support, General Support, and Depot Maintenance Manual** ,1969      **Operator, Organizational, Field, and Depot Maintenance Manual** ,1973      Engine Heavy Duty Air Cooled Wisconsin Models AEN, AENS Instruction Book and Parts List United States. Department of the Army,1952      *Technical Manual, Operator and Organizational Maintenance Manual* ,1990      DA Pam ,1967      *Operator's Manual, Maintenance Manual, Parts List for Sprayer, Paint, Pneumatic, Portable, with Compressor, Gasoline Engine-driven, Wheelbarrow-type, with Two 5-gal. Galvanized Steel Tanks and Accessories, Binks, Model E-2, Engine: Kiekhaefer, Model KB6F.* ,1944      **Operator's, Organizational, DS, and GS Maintenance Manual** ,1991      *Operator's, aviation unit, and aviation intermediate maintenance manual* ,1989      *Instructions No. 2822A Fairbanks-Morse Type FM Magnetos, Type FM-K Magnetos* Fairbanks, Morse and Company,1939      **Operator, Organizational, Direct Support, and General Support Maintenance Manual** ,1972      Seloc Mercury Outboards 1965-89 Repair Manual Joan Coles,Clarence W. Coles,1998      **Operation and Organizational Maintenance Manual** ,1992      **Small Tractor Manual** ,1965      **Audels Gas Engine Manual** ,1908      Cycle World Magazine ,1979-01      **Engine Heavy Duty Air Cooled Wisconsin Models VE4, VF4 Instruction Book and Parts List** United States. Department of the Army,1952

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