

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

Chao Zhang



Fairbanks Morse Magneto Repair Manual:

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 *Technical Manual* United States Department of the Army,1952 **Technical Manual**

United States. War Department,1943 **Seloc Mercury Outboards 1965-89 Repair Manual** Joan Coles,Clarence W.

Coles,1998 *Operator, Organizational, Field, and Depot Maintenance Manual* ,1961 **Operator's, Organizational,**

Direct Support and General Support Maintenance Manual Including (repair Parts and Special Tools List) for

Mixer, Rotary Tiller, Soil Stabilization, Reworks Model HDS-E, Diesel Engine Driven (DED) NSN

3895-01-141-0882 ,1985 **Ford Shop Manual Series 2N 8N & 9N IT Shop Service, The Ford Shop Manual Series 2N**

8N 9N is an essential resource for owners and mechanics working on Ford N series tractors This comprehensive guide provides detailed information on maintenance repair and troubleshooting procedures for these classic agricultural machines With clear instructions and helpful illustrations this fully digitized edition of Ford s original 1953 manual will help you keep your Ford tractor running smoothly and efficiently **Field Manuals** United States. War Department,1948 **Engine**

Heavy Duty Air Cooled Wisconsin Models VE4, VF4 Instruction Book and Parts List United States. Department of the Army,1952 Donny's Unauthorized Technical Guide to Harley-Davidson, 1936 to Present Donny Petersen,2016-10-29

Donny Petersen feels honored to share the wealth of his motorcycle knowledge and technical expertise He offers the real deal in understanding the Harley Davidson He gives workable solutions for whatever ails the 1957 to 1985 H D Ironhead Sportster Graphics pictures and charts guide the reader on a sure footed journey to a thorough understanding Donny intersperses the technical explanations with entertaining true stories of the hard core lifestyle of these years including The Wild One Easyriders the Birth of Hog Willie G Steppenwolf Evil Knevil the reviled AMF 1%ers and who could forget Elvis Presley Petersens insight makes technical issues understandable even for the novice This is the eighth volume of twelve of Donnys technical series Petersen is the dean of motorcycle technology Donny examines the theory design and mechanical aspects of the Ironhead Sportster Donny has ridden hundreds of Harleys across four continents doing all of his own roadside repairs He has acquired his practical knowledge the hard way Donny Petersen has the privilege of sharing his technical secrets with easy understanding He will walk you through detailed mechanical procedures concerning the power train electrical fuel delivery ignition and the gear head favorite subject of oil and lubrication **Motor's Truck & Tractor Repair Manual** ,1950 *Engine Heavy Duty Air Cooled Wisconsin Models AEN, AENS* United States. Department of the Army,1952 **DA Pam** ,1967 *Operator, Organizational, Direct and General Support Maintenance Manual* ,1988

Operator, Organizational, Direct and General Support, and Depot Maintenance Manual (including Repair

Parts) ,1991 **Fundamentals of Magneto Ignition ...** Fairbanks, Morse and Company,1945 **Magneto Ignition**

Fairbanks, Morse and Company. Magneto Division, 1945 **Engine Heavy Duty Air Cooled Wisconsin Models AEN, AENS Instruction Book and Parts List** United States. Department of the Army, 1952 *Inboard Engines & Drives Service Manual: Oldsmobile, OMC, Peugeot, Universal, Volvo, Westerbeke and Yanmar gas and diesel engines ... with section on popular inboard drives* , 1984 **Operation and Maintenance Instructions** , 1955

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