

# 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

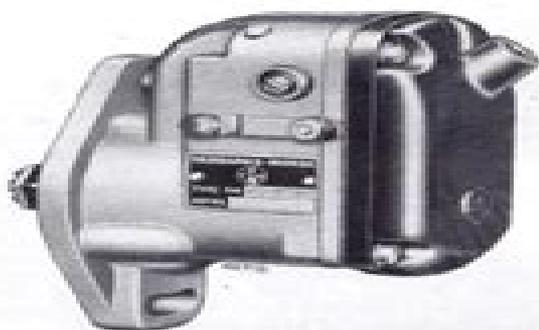


Fig. 1. Standard and Radio Shielded Magnetos

### GENERAL DESCRIPTION

Fairbanks-Morse Series "X" Magnetos, 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-XFE2, FM-XR, FM-XOR, FM-XY and FM-XYE 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

**United States. Department of the  
Army**



## **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      *Operator's, aviation unit, and aviation intermediate maintenance manual* ,1989      *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      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

**Technical Manual, Operator and Organizational Maintenance Manual** ,1990      **Fairbanks-Morse Type FM-J 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      **Engine Heavy Duty Air Cooled Wisconsin Models AEN, AENS** United States. Department of the Army,1952      **Audels Gas Engine Manual** ,1908      **Cycle World Magazine** ,1979-01

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In a digitally-driven earth where screens reign great and instant conversation drowns out the subtleties of language, the profound strategies and psychological nuances concealed within phrases usually move unheard. However, located within the pages of **Fairbanks Morse Magneto Manual** a interesting fictional value blinking with natural emotions, lies a fantastic quest waiting to be undertaken. Penned by an experienced wordsmith, this charming opus encourages viewers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the material of each word. Within the psychological depths with this moving evaluation, we shall embark upon a sincere exploration of the book is primary themes, dissect its fascinating publishing type, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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### **Table of Contents Fairbanks Morse Magneto Manual**

1. Understanding the eBook Fairbanks Morse Magneto Manual
  - The Rise of Digital Reading Fairbanks Morse Magneto Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Fairbanks Morse Magneto Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Fairbanks Morse Magneto Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fairbanks Morse Magneto Manual
  - Personalized Recommendations

- Fairbanks Morse Magneto Manual User Reviews and Ratings
- Fairbanks Morse Magneto Manual and Bestseller Lists
- 5. Accessing Fairbanks Morse Magneto Manual Free and Paid eBooks
  - Fairbanks Morse Magneto Manual Public Domain eBooks
  - Fairbanks Morse Magneto Manual eBook Subscription Services
  - Fairbanks Morse Magneto Manual Budget-Friendly Options
- 6. Navigating Fairbanks Morse Magneto Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Fairbanks Morse Magneto Manual Compatibility with Devices
  - Fairbanks Morse Magneto Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fairbanks Morse Magneto Manual
  - Highlighting and Note-Taking Fairbanks Morse Magneto Manual
  - Interactive Elements Fairbanks Morse Magneto Manual
- 8. Staying Engaged with Fairbanks Morse Magneto Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fairbanks Morse Magneto Manual
- 9. Balancing eBooks and Physical Books Fairbanks Morse Magneto Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fairbanks Morse Magneto Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Fairbanks Morse Magneto Manual
  - Setting Reading Goals Fairbanks Morse Magneto Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fairbanks Morse Magneto Manual
  - Fact-Checking eBook Content of Fairbanks Morse Magneto Manual

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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