Bulletin FM73B

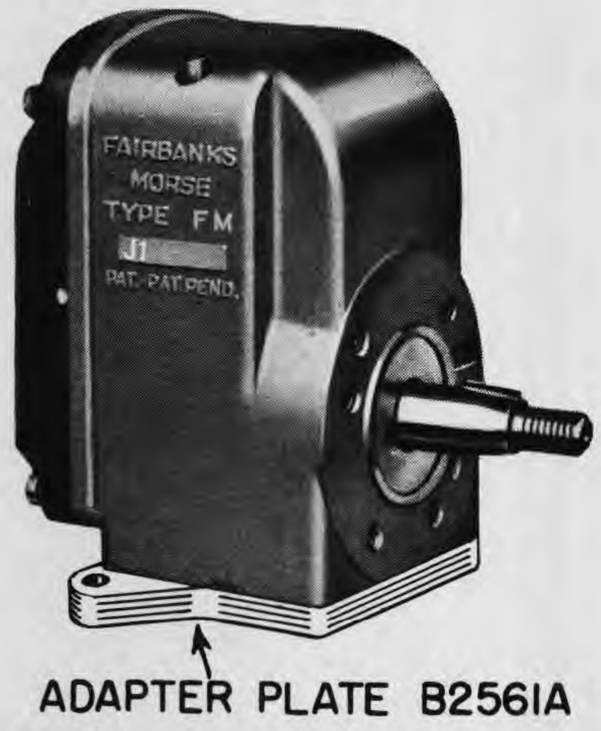
# FAIRBANKS-MORSE

## TYPE FM-J1 MAGNETOS ON FAIRBANKS-MORSE Z & ECLIPSE ENGINES

Adoption on Z and ZC Engines

Fairbanks-Morse production Z and ZC engines are fitted at the factory with the Type FM-J1 magnetos. A carefully planned type designation indicates the application of the magneto and simplifies service work.

| Application | Magneto Mtg. | Rot. | Adapter | Magneto Type | Illus. |
|---|---|---|---|---|---|
| Z Engines | Base | CW | B2561A | FM-J1A2 | Fig. 1 |
| ZC Engines (3 HP) | Flange | CW | B2561 | FM-J1B2 | Fig. 2 |
| ZC Engines (6-8 HP) | Flange | CW | C2561 | FM-J1B2A | Fig. 3 |
| ZC Engines (12-17 HP) | Flange | CCW | C2561 | FM-J1B2B | Fig. 3 |




ADAPTER PLATE B2561A

Fig. 1 - Type FM-J1A2 Magneto

Replacements on Z and ZC Engines

1. To replace Type FM-J1 magnetos as furnished on Z or ZC engines, an identical unit may be ordered by the magneto type designation as stamped on the housing (or shown in the tabulation above).

2. To replace Types R and RV1 magnetos, the Type FM-J1A2 magneto is always furnished, but the gear or coupling nut must also be ordered according to the application:

| Engine Application | Original Magneto | Magneto Drive * | Replacement Magneto | Order by Part No. | List Price |
|---|---|---|---|---|---|
| 1½ HP Z | Type R or RV1 | Gear | FM-J1A2 | B2570A | ** |
| 3 HP Z | Type R or RV1 | Gear | FM-J1A2 | D2570A | ** |
| 5 HP or larger Z | Type R or RV | Imp. Cplg. | FM-J1A2 | H2570 | ** |

*Neither gears nor impulse couplings are included with FM-J1A2 magnetos ordered to replace Types R or RV1. The drive equipment must be removed from the old magneto and fitted to the new unit except for the gear or coupling nut which must be replaced since the threading of the magneto shaft has been changed from 7/16"-20 to 3/8"-16.

3. To replace Bosch or Sumter magnetos, or battery ignition, on older Z engine models, reference should be made to Bulletins FM4D, FM5D, and FM6A. The Type FM-J1A2 magneto is furnished in combination with necessary change-over parts at a special kit price.

FLANGE B2561

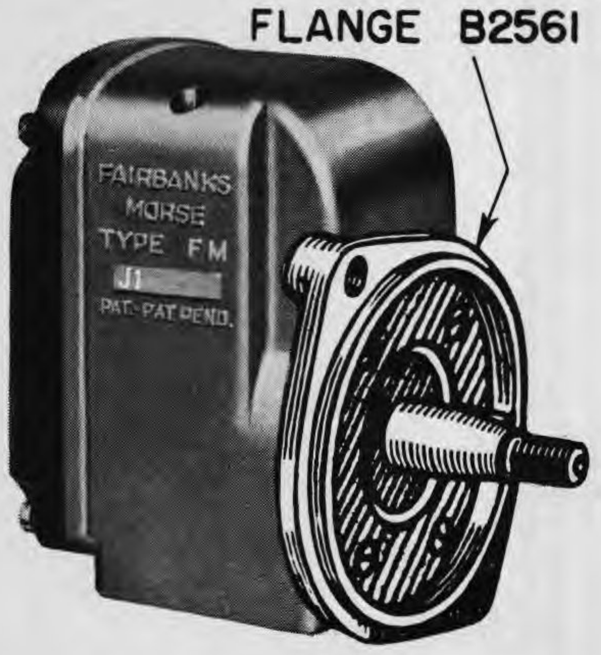



Fig. 2 - Type FM-J1B2 Magneto

Replacements on Eclipse Engines

The mountings of Type RS1, FM1B and FM-J1B2 magnetos as used on Fairbanks-Morse 2-2½ HP Eclipse engines are identical, but the Type FM-J1B2 magneto replaces the RS1 and FM1B magnetos only when a new drive gear is also used. This is necessary because the keyway of the magneto shaft was changed 177½° in position and it is inadvisable to try to adapt the old RS1 or FM1B gear to the replacement magneto. Magneto drive gears furnished for service on the Eclipse engine have both old and new keyways cut - "A" for RS1 and FM1B magnetos and "B" for FM-J1B2 magnetos. (See Impulse Coupling Repair Price List No. 9835A, page 24.)

The serial numbers of the first Eclipse engines to use the Type FM-J1B2 magnetos are as follows:

Hit & Miss - #808427  Gaso.Throt.Gov. - #812621  Kero.Throt.Gov. - #814579

Magneto to engine timing as described in Eclipse Instr. No. 2819A has not been changed provided the proper gear is used with each of the various magnetos.

FLANGE C2561

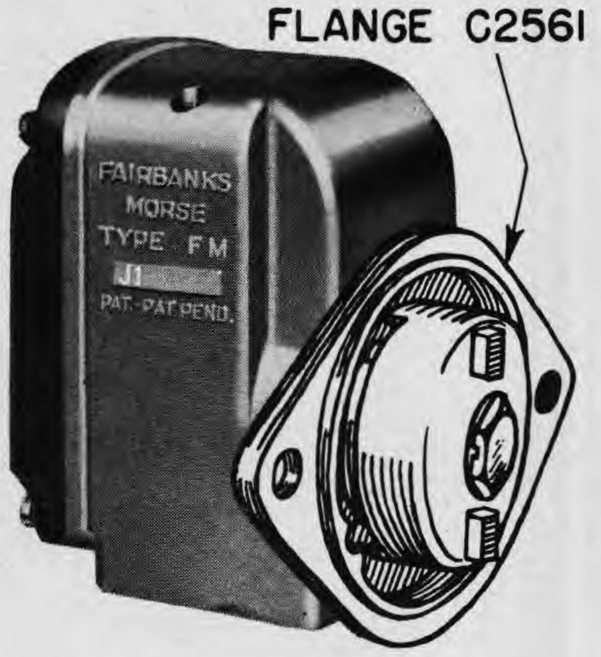



Fig. 3 - Type FM-J1B2A (CW) Magneto
Type FM-J1B2B (CCW) Magneto

Cooperation with Fairbanks-Morse Branches

The information contained in this bulletin has been sent to each Fairbanks-Morse Branch, advising them that magneto repairs and replacements for the Z, ZC and Eclipse engines are available through the Magneto Service Organization.



** Refer to Column 3, Page 4, of Bulletin FM9837F.

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