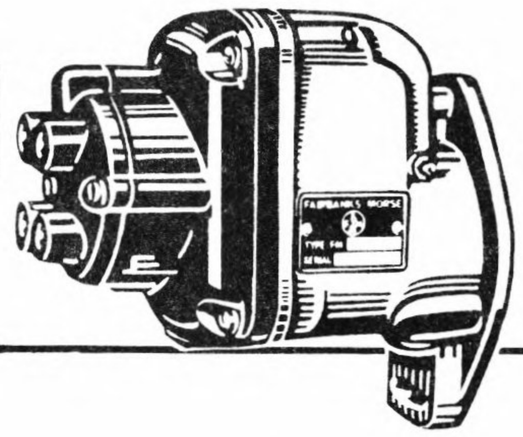
FAIRBANKS-MORSE

MAGNETO and ENGINE ACCESSORIES DIVISION
BELOIT, WISCONSIN



Bulletin FM268
November 1959

Mounting Wisconsin Motor Drive Gear on Fairbanks-Morse Magnetos

For easier servicing of Fairbanks-Morse Type FM-X4 Magnetos, installed on Wisconsin Motor multi-cylinder engines, we are presenting the proper procedure for mounting the magneto drive gear onto the magnetic rotor shaft.

Place the magneto in a vise and securely fasten it by the lower flange hole section. Insert a short piece of high tension lead wire in the magneto tower for the No. 1 cylinder. Mount the gear with the punch mark, on the face of the magneto near one tooth, in line with the upper mounting flange hole. Hold the loose end of the wire 1/8 in. away from the magneto housing. Turn the drive gear in the direction of normal rotation until the impulse coupling releases. At that instant a spark should jump from the wire to the magneto housing indicating that the gear is correctly mounted.

If no spark occurs, remove the gear, turn it 180° and reinstall it on the rotor shaft. Rotate the gear as before. A spark should occur since the gear can only be mounted in one of these two positions.

After the correct mounting position of the gear has been determined, position the gear correctly on the gear bushing and add the gear nut. Tighten the nut securely, insert the lock-wire and fasten the ends together to keep the nut in place.