FITTING A DRIVING DOG OR GEAR TO DISTRIBUTORS AND VERTICAL TYPE MAGNETOS

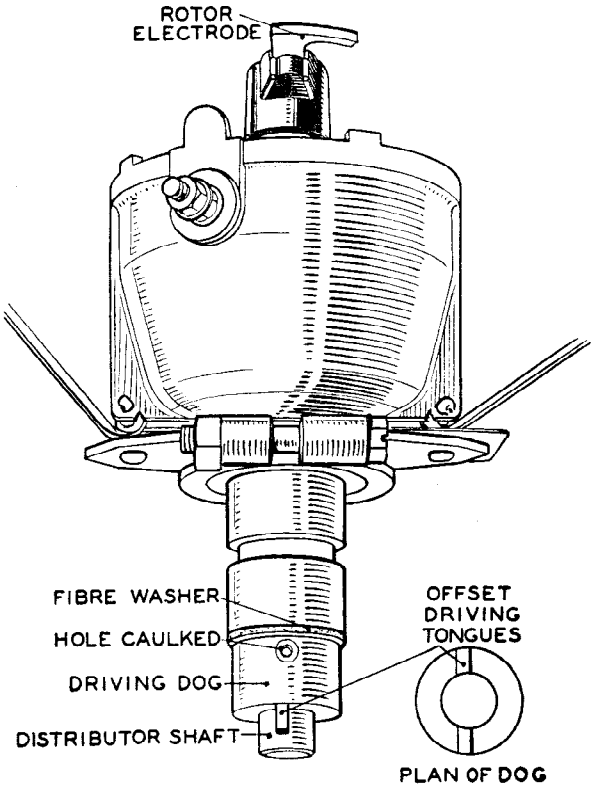

Fig. 1.

Fig. 1 shows a correctly pinned driving dog. Note carefully the order of assembly and the following relationships:

(*a*) The driving tongues are in line with the rotor arm.

(*b*) The driving tongues are offset with respect to the centre line of the shaft and, when viewed from the rotor electrode side, lie to the left of this line.

P.T.O.

Fig. 2 shows method of drilling the shaft, using the hole in the dog as a guide. To obviate shaft 'end-float', the shaft must be pushed down from the rotor end and the dog to be hard against the fibre washer, before drilling is begun.

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Diameter of hole to be 0.125 in. to 0.126 in.

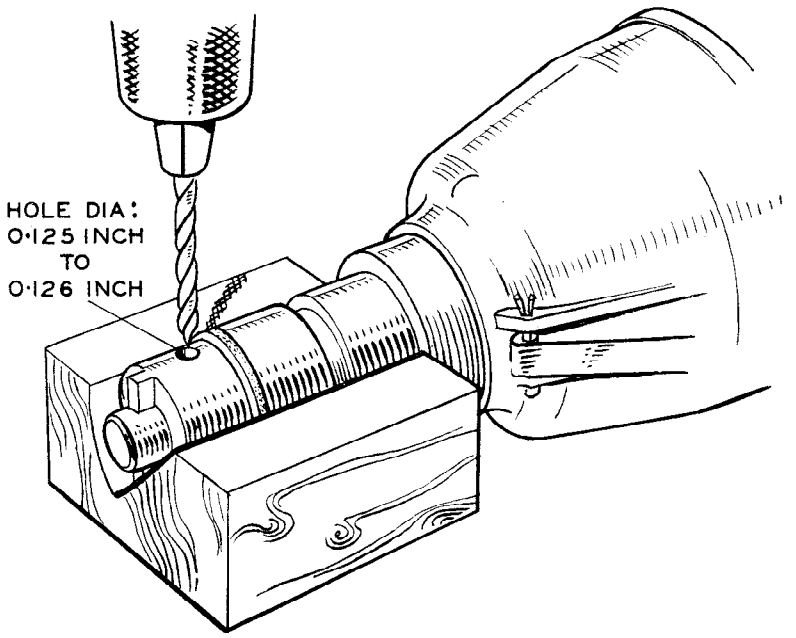

Fig. 2.

For ease of drilling, a two-stage operation is recommended. Drill half way through the shaft, turn the dog and shaft through 180°, and complete the hole. When turning the dog and shaft, take great care not to move one relative to the other; a peg inserted in the drilled portion will prevent such movement.

After fitting the pin, caulk over the holes to secure. The dog must be a tight fit on the shaft.

DRIVING GEARS

Driving gears are fitted in a similar manner, but in these cases the position of the gear in relation to the rotor is immaterial.

★ Later supplies of driving dogs for fitting to distributors of the DM range are to be drilled to take a $\frac{3}{16}$ in. × $\frac{7}{8}$ in. Mill's grooved pin. In such cases the diameter of hole through the shaft must be 0.187 in. to 0.188 in.