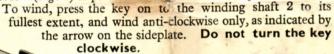
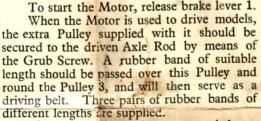
"Magic" Motor The Meccano

Instructions

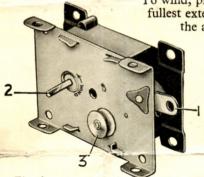
Before winding the Motor, oil the bearings and gears with Meccano Oil. oiling should be repeated at frequent intervals.

See that the Brake Lever 1 (Fig. 1) is pressed down to the "on" position.





If the above instructions are carried out, the Motor will give excellent service, and will

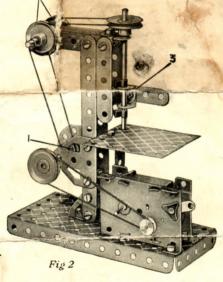


greatly enhance the joys of model-building by giving movement to the models and thus making them far more fascinating.

Some examples showing methods of mounting the Magic Motor in models are shown The Motor can be made to drive most of the working models built with Outfits A, B and C, and by arranging suitable Pulley systems the drive from the Motor can be taken

to any part of the nodel.

Fig. 2 shows a method of driving a Rod that is not conveniently placed for a direct The Motor is shown mounted in position on the base of he model Drilling Machine. A rubber band of medium length is passed round the Motor pulley, and round a 1" Pulley The Rod carrying this Pulley is fitted with the 1" Pulley 1 that is supplied with the Motor. A long rul ber band passes round the Pulley 1 and over two guide Pulleys 2, before passing round the 1' Pulley at the head of the Rod representing the drill. It is necessary for one of the guide Pulleys to be free on its Rod, as the two rotate in opposite directions.



The free Pulley is retained on the Rod by a Spring Clip. Two Angle Brackets 3 form the lower bearing for the drill Rod and are bolted to a 21" Strip attached to the vertical member of the drill.

On models that travel it is generally convenient to mount the Motor beneath the model. Fig. 3 is an underneath view of a small cart (shown overleaf) and shows clearly how a drive A short rubber band is can be arranged. passed from the Motor Pulley to the 1/2" Pulley on the axle of the travelling wheels. In

ficting the band in position it should be twisted correctly to ensure that the model travels in the required direction.

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The four models shown below are examples of Meccano A and B Outfit models fitted with the Magic Motor. The method of connecting the Motor to models of the type of A62M and B51M is shown by the sectional view on the other side of this leaflet. In A98 and B32M the method of fitting is clearly seen in the illustrations.

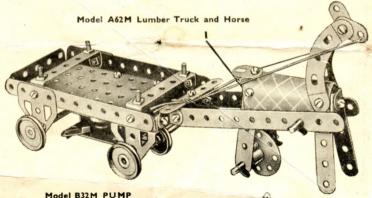
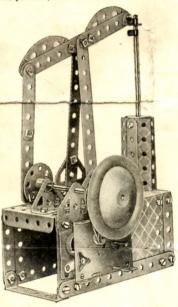


Fig. 3 overleaf shows how the Magic Motor is mounted beneath the cart to drive ed beneath the cart to drive the front wheels. The Pulley supplied with the Motor is mounted on the front Axle, and the rubber band is fitted as shown. Two Angle Brackets secure Two Angle Brackets secure the front legs of the horse, and this construction is duplicated at 1 for the hind legs. The forelegs are kept clear of the ground by means of the reins.

Model B32M PUMP

A 1" Pulley on the crank-hafe of the pump is connected by a rubber band to the driving pulley on the Magic Motor. As the crankshaft rotates the pivoted beam rocks up and down and thus operates the pump. The pivoted joints are locknutted.

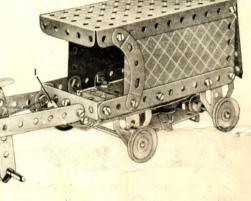




Model BSIM Bread Van

The method of fitting the Magic Motor to this model is shown

model is shown in Fig. 3overleaf.
The horse travels on a lose Pulley mounted between its hind legs. The forelegs should be kept clear of the ground by tying the reins to the Angle Bracket 1.



Model A98 Roundabout