MECCANO

INSTRUCTIONS

FOR

No. O OUTFIT

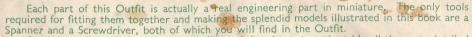
No. 45.0

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MECCANO

REAL ENGINEERING IN YOUR PLAY HOURS

HOW TO BEGIN



First select the model you want to build, and then lay out on the table all the parts detailed

in the "Parts Required" list. The illustrated list below will help you.

Take Model No. 0.5 as an example. Begin by bolting the Flat Trunnions that support the uprights of the swing to the Flanged Plate. Then bolt the uprights themselves to the Trunnions and join their upper ends with a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip as shown. The Strips that form the backstays to the uprights, and the swing seat, can then be added.

In some models it is necessary to join certain parts together so that, although they cannot come apart, they are free to pivot or move in relation to one another. To do this the parts are bolted together as usual but the nut is not screwed up tightly, so that the parts are not gripped. Then, to prevent the nut from unscrewing, a second nut is screwed up tightly against it, the first nut being held with a spanner. This method of using a second nut is known as lock-nutting.

When you have built all the models illustrated in this Manual the fun is not over but is just beginning! Now comes the chance to make use of your own ideas. First of all rebuild some of the models with small changes in construction that may occur to you; then try building simple models entirely of your own design. In doing this you will feel the real thrill of the engineer and the inventor.

Several of the illustrations in this Manual show how miniature figures and various small articles can be introduced to add realism to the models. These are not included in the Outfit. Many of them are Meccano Dinky Toys that can be bought separately from your Meccano dealer.

If you ever meet with any small difficulty, or if you wish to have further information on any point in connection with your model-building, write to Meccano Ltd., Binns Road, Liverpool 13, and your letter will be answered fully and promptly.

The Meccano Plates (Flanged, Flat, Curved, etc.) are shown in the Manual models with

white lines. In the new Meccano Outfits these parts are plain.

CONTENTS OF MECCANO NO. O OUTFIT

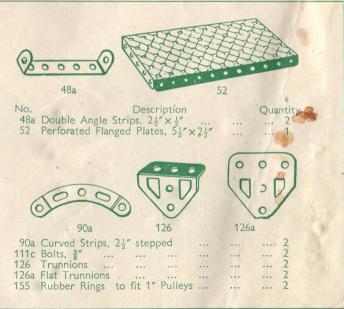
5 10 12 No. Description Quantity 2 Perforated Strips, $5\frac{1}{2}$ " 4 5 ... ,, $2\frac{1}{2}$ " 2 10 Fishplates 4 12 Angle Brackets, $\frac{1}{2}$ " $\times \frac{1}{2}$ " 4

16 Axle Rods, $3\frac{1}{2}$ " ... 1

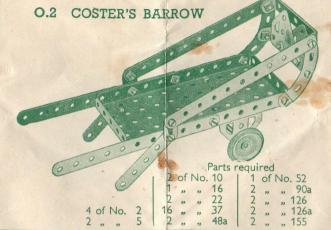
17 ,, ,, 2" 1

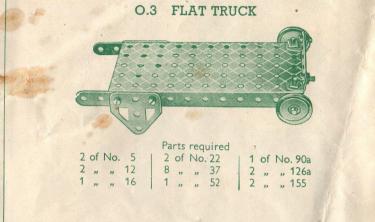
19s Crank Handles, 3½" shaft 1





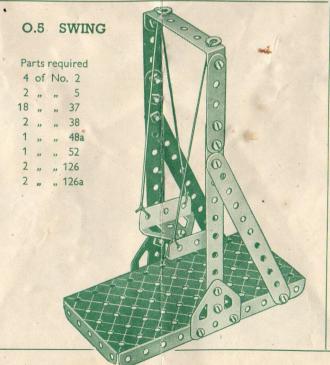




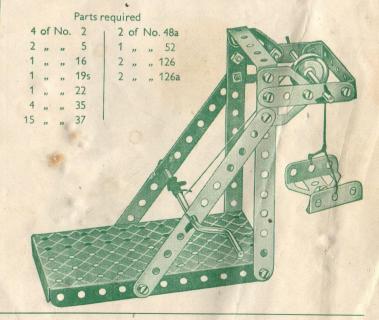


O.4 DOCKSIDE CRANE





O.6 ELEVATOR

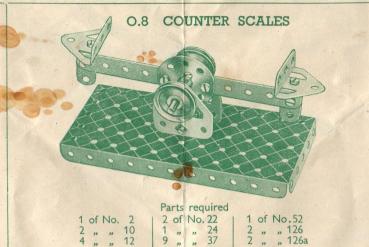


These Models can be built with MECCANO No. O Outfit



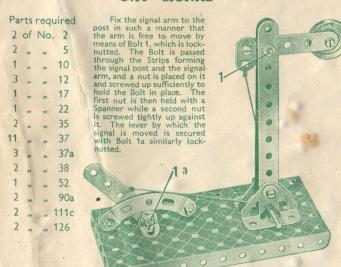


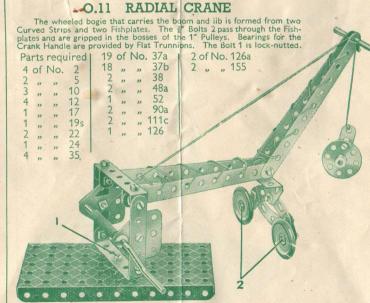
Parts required 4 of No. 2

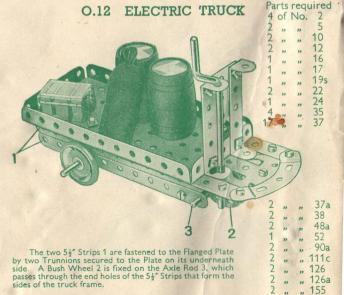


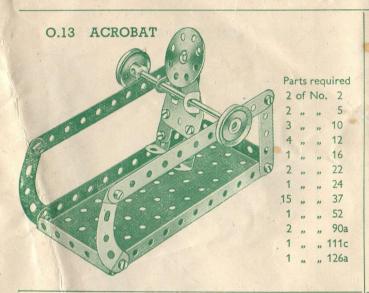


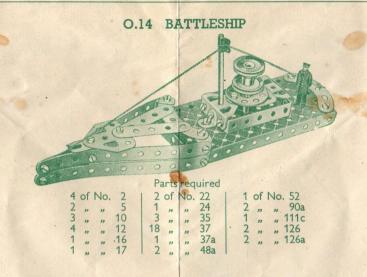
O.10 SIGNAL

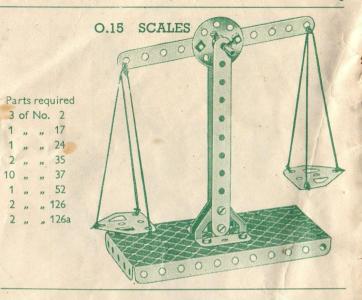




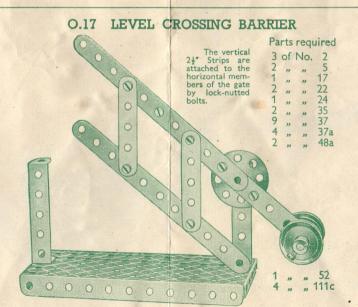


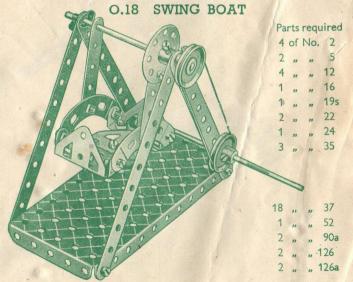


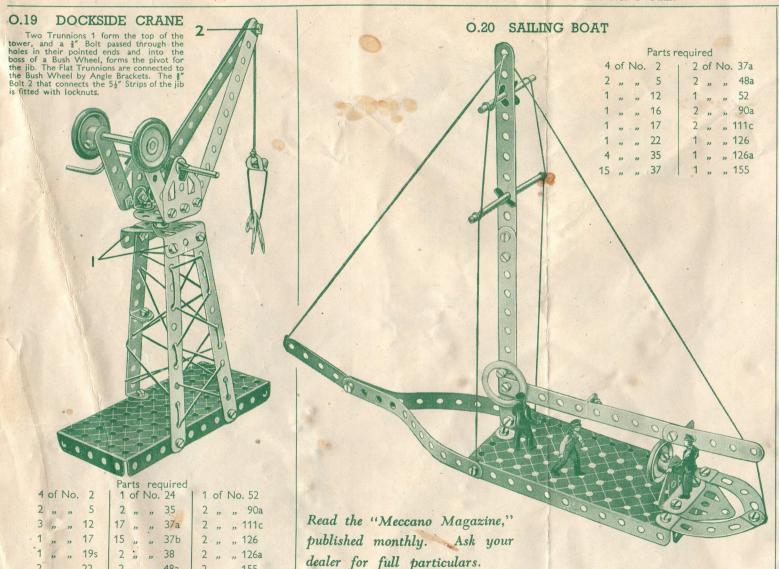




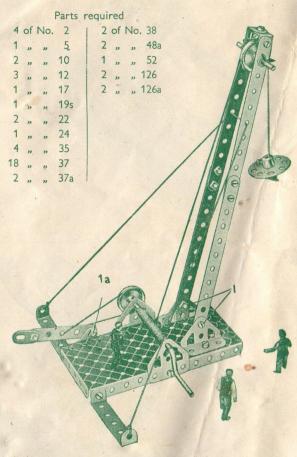






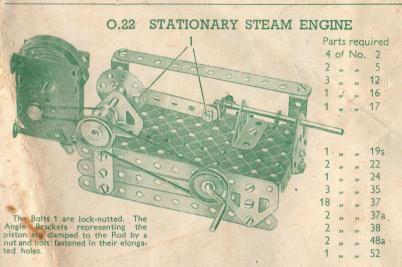


O.21 DERRICK CRANE



The construction of the model is commenced by bolting the Trunnions and Flat Trunnions that support the jib and Crank Handle respectively, to the \$\frac{3\psi}{\psi} \times 2\frac{1}{\psi} Flanged Plate that forms the base of the model. The jib is then assembled and fastened to the Trunnions by means of the lock-nutted Bolts 1. The brake lever is a \$2\frac{1}{\psi} \times 1 \text{Strip extended by a Fishplate, and is fastened to a second Fishplate bolted to the Flanged Plate by means of a Bolt 1a, the nut of which is left sufficiently loose to allow the \$\text{Strip to move.} A length of Cord is fastened to the lever and then passed round the 1" Pulley on the Crank Handle.

THE MECCANO MAGIC MOTOR



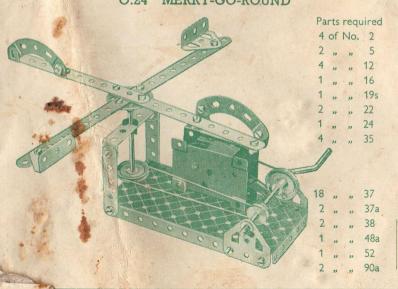
2 of No. 126 2 " "126a Magic Motor (not in Outfit.)

Parts required

MECHANICAL HAMMER



O.24 MERRY-GO-ROUND



The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Magic Motor. The illustrations on this page show how the Magic Motor can be fitted without any difficulty to No. O Outfit models of various types. Fit the model you have just built with one of these wonderful Motors, and watch it work just like the rea thing!

The Motor is not included in the Outfit.

2 of No. 111c 2 " " 126 2 " "126a Magic Motor (not in Outfit.)

1 of No. 52 2 " " 126a

Parts required 4 of No. 2 2 " 48a Magic Motor (not

in (Outfit.)

in Outfit.)

WINDMILL A Driving Band connects the pulley of the Magic Motor to a 1" Pulley fastened on the Crank Handle. The Crank Handle carries also a ½" Pulley, which is connected by a second Driving Band with a further 1" Pulley fixed to the Rod on which the sails are mounted."



Windmill



When you have built all the models shown in this Manual you should obtain a copy of the No. 1 Manual from your dealer, together with the selection of Meccano parts listed below. These additional parts will convert your No. O Outfit into a No. 1 Outfit, with which it is possible to build a further 40 larger and more attractive models similar to those illustrated on this page.

		THE PERSON NAMED IN				
Part No.					Quan	tity
5	Perforated Strips, 24"					2
12	Angle Brackets, ½"×½"		***			4
16	Axle Rods, 3½"				***	1
17	Axle Rods. 2"		•••			1
22	Pulleys, 1" diam. with boss an	d screw				2
34	Spanners	*** .	***	***		1
37a	Nuts		•••			8
37b	Bolts, 32		***			6
38	Washers	***		***		2.
457c	Hanks of Cord	•••	***	***	***	1
111c	Hooks, Loaded, Small Bolts, 3"		***	41	***	1
125		***	***	***	***	4
155	Reversed Angle Brackets, ½" Rubber Rings for 1" Pulleys			***	***	1
189	Flexible Plates, 5½"×1½"		•••	.7.	***	2
	Tiexible Tlates, Ja XIa	***	***		***	2

The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

Remember that the model-building possibilities of the Meccano System are unlimited.





Travelling Crane