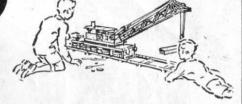


MECCANO

REAL ENGINEERING IN YOUR PLAY HOURS

HOW TO BEGIN



Each part of this Outfit is actually a real engineering part in miniature. The only tools required for fitting them together and making the splendid models illustrated in this book are a Spanner and a Screwdriver, both of which you will find in the Outfit.

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

in the "Parts Required" list. Look at the pictures in the list below.

To help you to start building, we will describe how Model O.1, Garden Seat, is made. Begin by bolting to the Flanged Plate the $5\frac{1}{2}$ " Strips that form the back legs of the seat. Then attach the upper ends of these Strips to two further $5\frac{1}{2}$ " Strips to form the back. Two $2\frac{1}{2}$ " Strips are then bolted to the front flange of the Plate to form the front legs. The model is completed by fixing two $2\frac{1}{2}$ " $2\frac{1}{2}$ " Double Angle Strips to the back to form arm rests.

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 meanwhile being held with a spanner. This method of using a second nut is known as **Lock-nutting**:

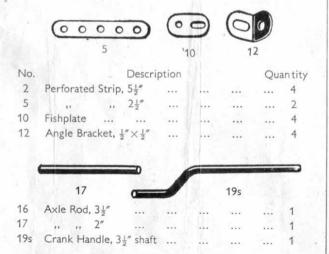
A Rod is usually mounted in a support or bearing, such as a hole in a Strip, so that it is free to revolve. The Rod is then said to be **journalled** in the Strip.

When you have built all the models shown in this Book 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.

This No. O is the smallest of the Meccano Outfits. In order to build bigger and more attractive models you need a larger Outfit containing a greater number and variety of parts. To convert your Outfit into the next larger one, the No. 1, you need a No. Oa Accessory Outfit. Turn to the back cover of this Book for further details and pictures of some of the fine models you will then be able to build.

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.

CONTENTS OF MECCANO No. O OUTFIT

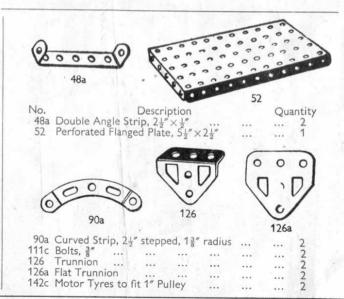




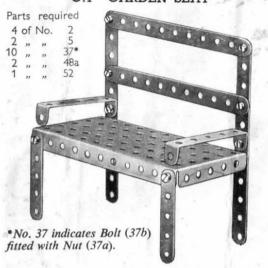




No.		Descri	ption	787	Qu	antity	
22	Pulley, 1" diar	n. with bo	ss and	screw	 	2	
24	Bush Wheel,	1흫" diam.			 	1	
34	Spanner	()			 	1	
	Spring Clip				 	4	
	Screwdriver				 	1	
37a	Nuts	5			 	22	
37b	Bolts, 7				 	18	
	Washers				 	2	

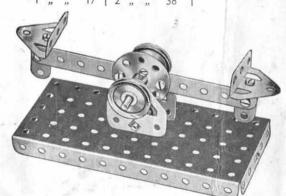


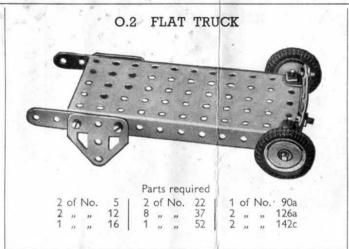
O.1 GARDEN SEAT



O.4 COUNTER SCALES

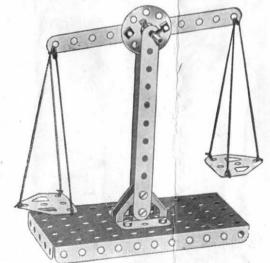
				Part	s rec	uired				
1	of	No.	2	1 2 of	No.	22	1	of	No.	52
2	,,	,,	10	1 ,,	,,	24	2	1.		126
4	"	,,,	12	9 "		37	2	,,	,,	126
1		7.	17	2		38				

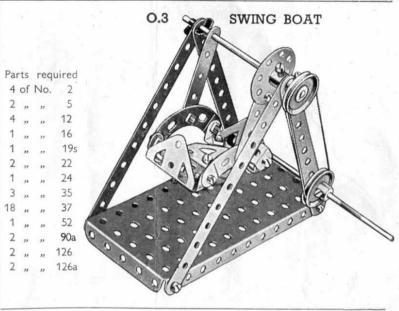




O.5 SCALES

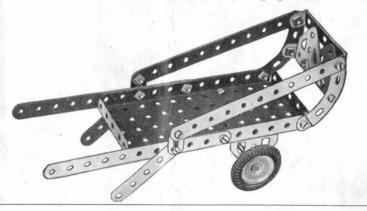
				Pa	rts	requ	ired				
3 1 1	of	No.	2 17 24	10	of "	No.	35 37 52	2	of "	No.	126 126a
						177					

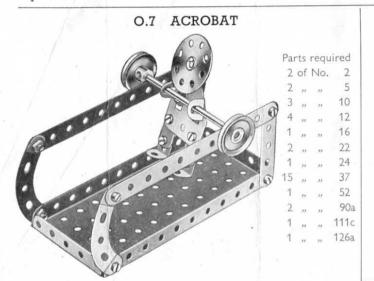


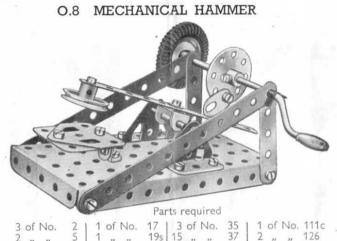


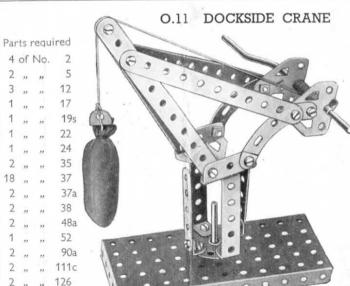
O.6 COSTER'S BARROW

				Pa	rts	requ	ired				
4	of	No.	2 1	2	of	No.	22 1	2	of	No.	90a
2	22	29	5	16	,,	,,	37	2	,,	,,	126
2	,,	,,,	10	2	,,	"	48a	2	,,	,,,	126a
1	,,	23	16	1	22	22	52	2	**	***	142c

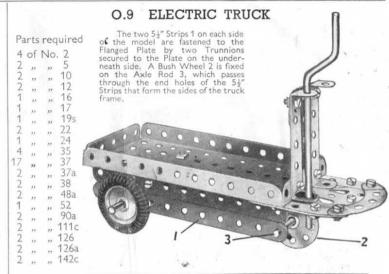




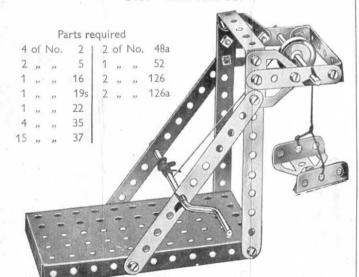




2 " " 126a









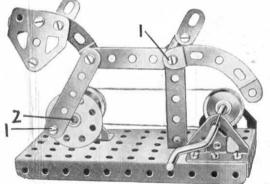
Parts required
2 of No. 5
4 " " 10
1 " " 12
1 " " 17
1 " " 19s
2 " " 22
1 " " 24
4 " " 35

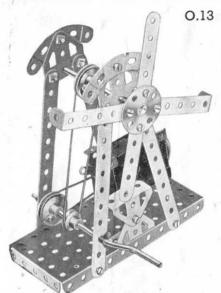
1 " " 12
1 " " 17
1 " " 19s
2 " " 22
1 " " 24
4 " " 35
15 " 37
5 " 37a
1 " 38
1 " 48a
1 " 52
2 " 90a
2 " 111c
2 " 126
2 " " 126
2 " " 126a

The Bolts 1 are fitted with locknuts, so that the parts they attach are free to pivot. Bearings for a 2" Rod, the end of which is seen at 2, are provided by a Fishplate 3, bolted to an Angle Bracket 4, and a Trunnion 5.



in O 17a





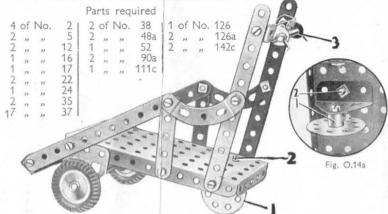
O.13 WINDMILL Parts rec

		1	Parts re	equire	ed;	3		
4	of	No.	2	18	of	No.	37	
2	,,	22	5	2	,,,	,,,	38	
1	,,	,,	16	2	,,	"	48a	
1	,,		19s	1	,,	"	52	
2	,,	27	22	2	,,	"	90a	
1	33	,,,	24	2	,,	,,	126	
3	"	22	35	2	"	22	126a	
	M	ania	Motor	(not		-live	hot	

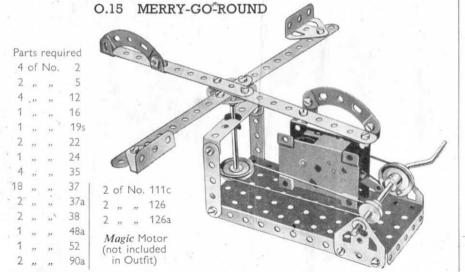
Magic Motor (not included in Outfit)

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 3½" Rod on which the sails are mounted. The 3½" Rod is held in place by Spring Clips, one behind the Bush Wheel, and one on its rear end. If a Motor is not used the ½" Pulley (supplied with Motor) is replaced by a 1" Pulley.

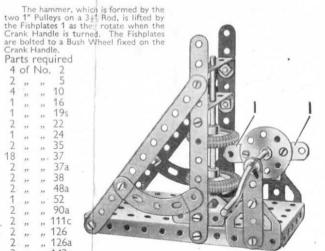
O.14 INVALID CARRIAGE



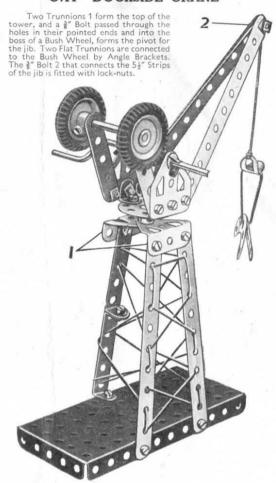
The Bush Wheel 1 is locked on a $\frac{3}{4}$ " Bolt journalled in a Trunnion attached to the Flanged Plate by the Bolt 2. (See Fig. O.14a). The handlebar 3 is held by Spring Clips in two Angle Brackets bolted to the $2\frac{1}{2}$ " $\times \frac{1}{2}$ " Double Angle Strip.



0.16 DROP HAMMER



O.17 DOCKSIDE CRANE

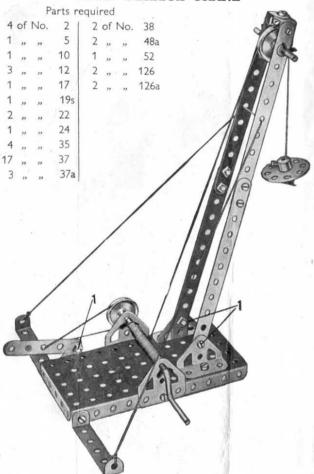


-		
Parts	requi	ired

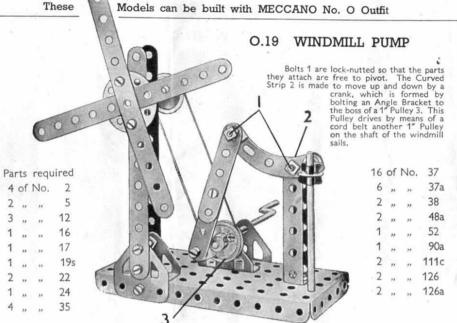
					6.5	, cq	111 00				
4	of	No.	2	1	of	No.	24	1 1	of	No.	52
2	,,,	"	5	2	33	,, .	35	2	,,,	,,,	90a
3	"	"	12	15	,,	,,,	37	2	,,,	,,,	111c
1	"	27	17	2	22	. ,,	37a	2	,,,	22	126
1	22	22	19s	2	"	"	38	2	"	22	126a
2	"	27	22	1 2	,,	.,,	48a	2	,,,	"	142c

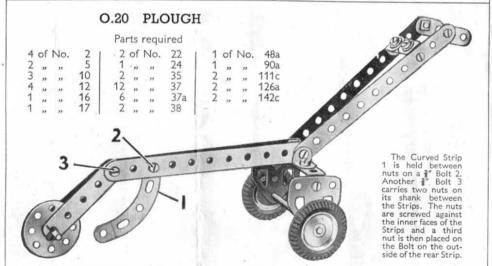
meccanoindex.co.uk Models can be built with MECCANO No. O Outfit

O.18 DERRICK CRANE



The construction of the model is commenced by botting the Trunnions and Flat Trunnions that support the jib and Crank Handle respectively to the $5\frac{1}{2}^{\infty}\times2\frac{1}{2}^{\infty}$ 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 $2\frac{1}{2}^{\infty}$ Strip and is fastened to a Fishplate bolted to the Flanged Plate. Bolts 1 are lock-nutted. A length of cord is fastened to the lever and then passed round the 1" Pulley on the Crank Handle.

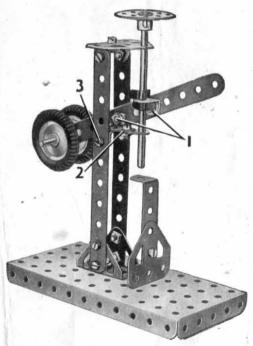




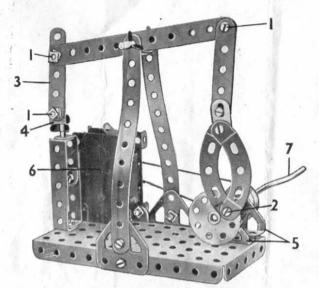
O.21 PUNCHING MACHINE

Parts required

of	No.	2	2	of	No.	22	1	of	No.	52	
,,	33	10	1	,,	22	24	2	,,	.,,	126	
,,	22	12	16	"	29					126a	
23	23	16				37a				142c	
		47				48a					



The Bolts 1 are lock-nutted. The lower bearing for the punch consists of two Fishplates 2, which are bolted together. One of them is then attached to an Angle Bracket that is fixed to one of the vertical 5½" Strips by the Bolt 3.



O.22 BEAM ENGINE

Parts required

4	of	No.	2	11	of	No.	19s	2	of	No.	38
.2	"	,,,	5	1	,,	,,,	22	2	,,	,,,	48a
3	27	"	10	1	"	,,,	24	1	,,,	"	52
4	,,	"	12	4	,,,	,,,	35	2	,,	,,	90a
1	"	,,	16	15	23	,,	37	2	,,	29	111c
							37a				
				2	of	No	126a.	-			

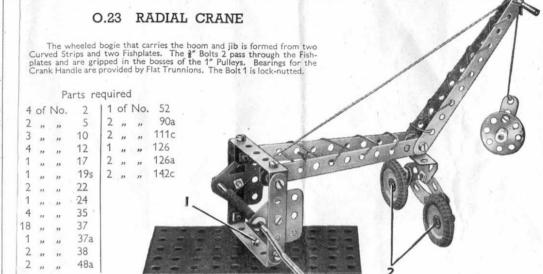
Magic Motor (not included in Outfit)

The Bolts 1 are lock-nutted. The Curved Strips must be free to pivot on the Bolt 2. The Strip 3 also must be freely pivoted to the Angle

Bracket 4.

The Trunnions 5 are each raised from the Flanged Plate by a Washer on each of the bolts that hold them in place.

The Magic Motor 6 is attached to the Flanged Plate by two Fishplates, and the Pulley on its shaft is connected by cord to a 1" Pulley on the Crank

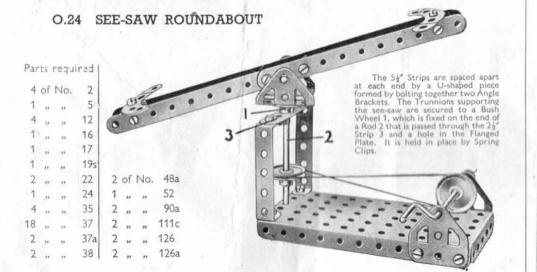


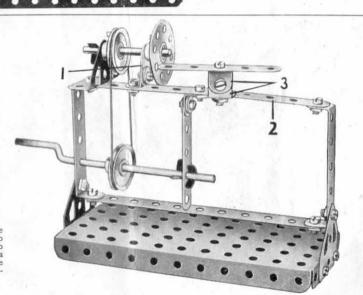
O.25 LATHE

Parts required

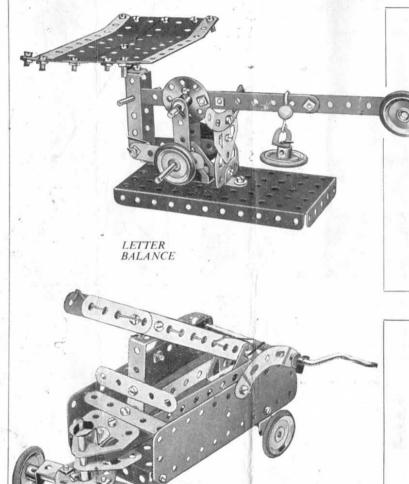
1	2	of	No.	21	1	of	No.	24
	2		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5	3	,,	,,	35
	2	,,,	,,	10	18	,,	,,	37
	4	,,	,,	12	2	**	,,	38
	1	,,	**	17	2	**	,,	48a
	1	"	**	19s	1	,,	,,	52
	2	**	**	22	1	**	,,	126
			2	of N	0. 1	26a		

The inner support or the lathe spindle consists of a Fishplate 1 bolted to an Angle Bracket fixed to the 5½" Strip that forms the lathe bed. The tool rest is a 2½" Strip that is supported by two Angle Brackets 3 bolted together to form a Ushaped piece.



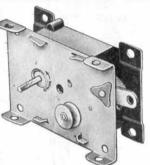


A SELECTION OF No. 1 OUTFIT MODELS



FIRE ENGINE

THE MECCANO MAGIC MOTOR



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 of Models 0.13, 0.15 and 0.22 show how the Magic Motor can be fitted to No. O Outfit models. Fit the model you have just built with one of these wonderful Motors.

The Magic Motor is not included in the Outfit.

HOW TO CONTINUE

When you have built all the models shown in this Book, and others of your own invention, you should get from your Dealer a No. Oa Accessory Outfit. This will

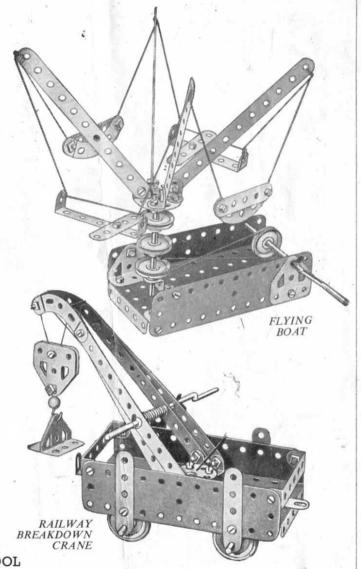
convert your No. O Outfit into a No. 1 Outfit.

With this larger Outfit-you will be able to build a new set of bigger and more interesting models. Some of these models are illustrated on this page.

The model-building possibilities of Meccano are unlimited. For each complete Outfit there is an Access-

ory Outfit that converts it into the one next larger. By means of these Accessory Outfits you can gradually build up your Outfit to a No. 10, which will provide you with the full resources of the wonderful Meccano system.

Every Outfit has its own Book of Instructions.



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