MECCANO

Regd. Trade Mark

INSTRUCTIONS for OUTFIT No. OO

54.00

A Hundred Toys in One

MECCANO

A New Toy Every Day

HOW TO BEGIN

Meccano Outfit No. OO is the smallest in the Meccano series, but it contains a sufficient variety and number of standard parts to enable many widely different and attractive little models to be built.

All the models shown in this Folder can be built entirely from the parts contained in a Meccano Outfit No. OO. The only tools you require for fitting the various parts together are a Spanner and a Screwdriver, and even these are included in your Outfit.

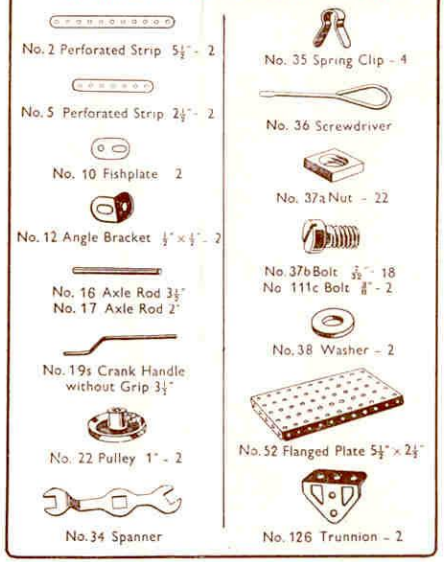
First look through the Folder and decide the model you wish to make. You will notice that alongside the picture of each model there is a list of the parts needed to build it. Your first job, therefore, is to take from the Outfit just those parts you will require to build the model you have chosen. You will be able to identify the various parts by studying the illustrations in the panel on this page.

Let us suppose that you have selected No. OO.5 Garden Seat for your first attempt. You should begin building by bolting to a Flanged Plate the two 5½" Strips that form the rear legs and sides of the back. Then bolt to the front edge of the Flanged Plate the two 2½" Strips that form the front legs. Now fill in the back of the seat by threading cord in criss-cross fashion through holes in the 5½" Strips.

You can now make the arm rests. Each of these is assembled by bolting a Fishplate to the end of a Trunnion, and then attaching the Fishplate to the end of the Flanged Plate, in the position shown. The arm rests are completed by Angle Brackets bolted to the 5½" Strips.

The Toy of The Century

CONTENTS OF OUTFIT No. OO.



MODEL-BUILDING WITH MECCANO

In building some of the other models it is necessary to join parts together so that although they cannot come apart, they are able to move in relation to one another. It is really quite easy to do this. First bolt the parts together in the usual way but do not screw the nut up tightly, and then the parts will not be gripped. Now to prevent the nut from unscrewing, all you need to do is to screw another nut tightly up against it, taking care to hold the first nut with a Spanner while doing so. The use of two nuts in this way is very often used in working models, and it is always called *lock-nutting* in the Meccano Instruction Books.

When you have built all the models shown in this Folder the fun is not over . . . it is just beginning! Now comes your 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 experience the thrill of the engineer and the inventor.

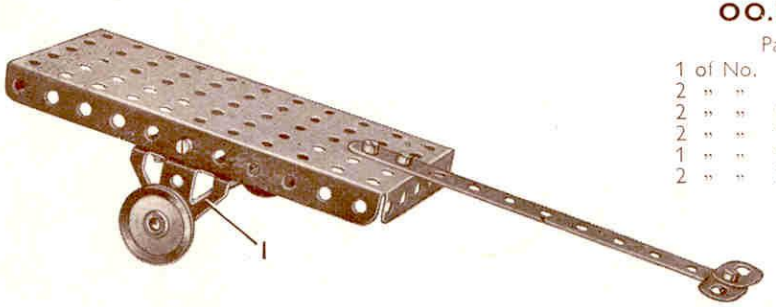
To enable you to build bigger and more attractive models, you need a larger Outfit containing a greater number and variety of parts. To convert your No. OO Outfit into the next larger one (the No. O), you will need a No. OOa *Accessory* Outfit.

If you ever meet with any small difficulty, or if you would like advice on any point connected with your model-building, write to *Information Service*, Meccano Ltd, Binns Road, Liverpool 13.

OO.1 TROLLEY

Parts Required

1 of No.	2	11 of No.	37a
2 " "	5	11 " "	37b
2 " "	10	2 " "	38
2 " "	12	1 " "	52
1 " "	16	2 " "	126
2 " "	22		



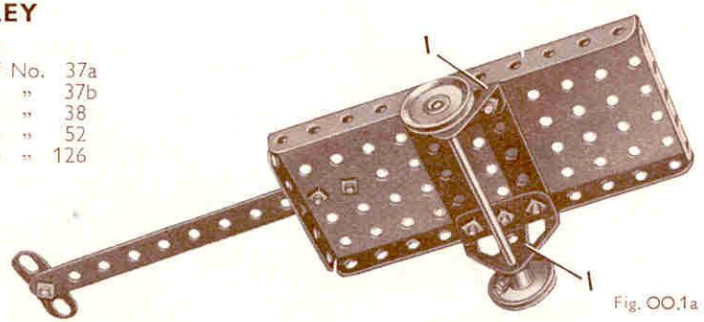
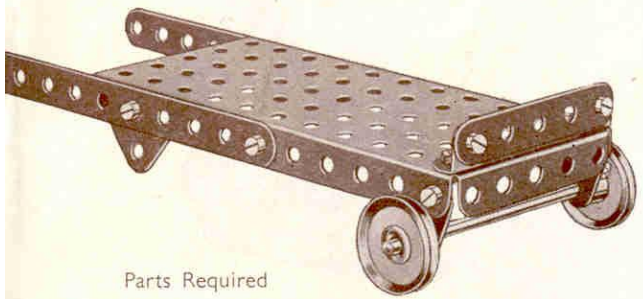


Fig. OO.1a

Trunnions (1) are fixed to Angle Brackets bolted to the sides of the Flanged Plate.

OO.2 TRUCK



Parts Required

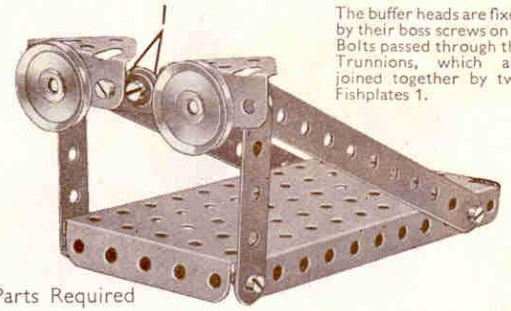
2 of No.	2	1 of No.	16	10 of No.	37b
1 " "	5	2 " "	22	1 " "	52
2 " "	10	10 " "	37a	2 " "	126
2 " "	12				

OO.4 WHEELBARROW

Parts Required

2 of No.	2	1 of No.	17	9 of No.	37a
2 " "	5	2 " "	22	9 " "	37b
1 " "	10	2 " "	35	2 " "	126
2 " "	12				

OO.6 BUFFER STOP

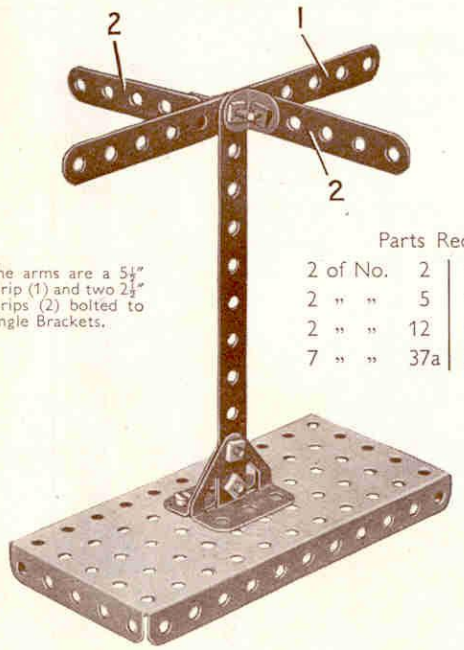


The buffer heads are fixed by their boss screws on ⅜" Bolts passed through the Trunnions, which are joined together by two Fishplates 1.

Parts Required

2 of No.	2	2 of No.	22	1 of No.	52
2 " "	5	9 " "	37a	2 " "	111c
2 " "	10	9 " "	37b	2 " "	126
2 " "	12	1 " "	38		

OO.3 SIGNPOST

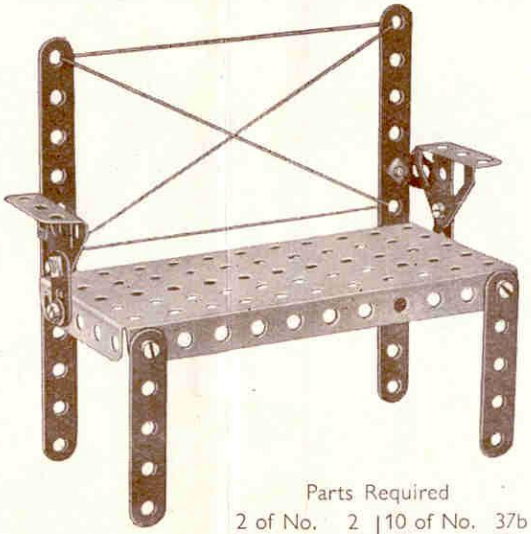


The arms are a 5½" Strip (1) and two 2½" Strips (2) bolted to Angle Brackets.

Parts Required

2 of No.	2	6 of No.	37b
2 " "	5	1 " "	52
2 " "	12	1 " "	111c
7 " "	37a	2 " "	126

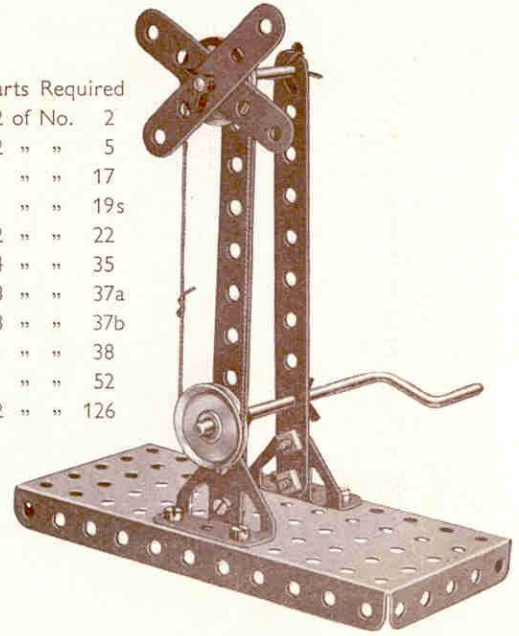
OO.5 GARDEN SEAT



Parts Required

2 of No.	2	10 of No.	37b
2 " "	5	2 " "	38
2 " "	10	1 " "	52
2 " "	12	2 " "	126
10 " "	37a		

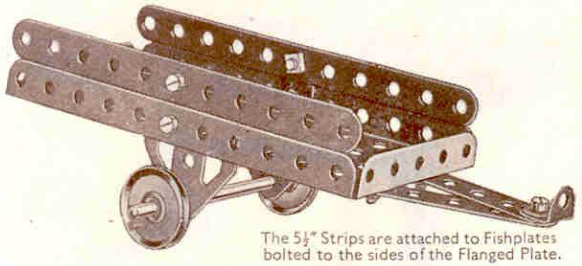
OO.7 WINDMILL



Parts Required

2 of No.	2
2 " "	5
1 " "	17
1 " "	19s
2 " "	22
4 " "	35
8 " "	37a
8 " "	37b
1 " "	38
1 " "	52
2 " "	126

OO.8 TRAILER

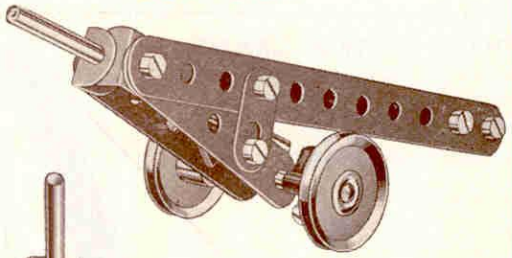


The 5½" Strips are attached to Fishplates bolted to the sides of the Flanged Plate.

Parts Required

2 of No.	2	1 of No.	16	1 of No.	38
2 " "	5	2 " "	22	1 " "	52
2 " "	10	11 " "	37a	2 " "	126
1 " "	12	11 " "	37b		

OO.9 GUN



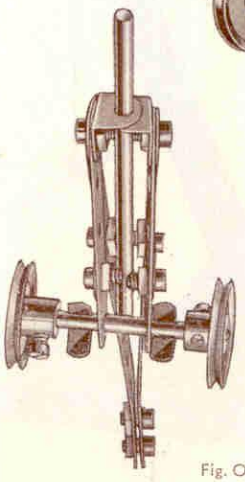
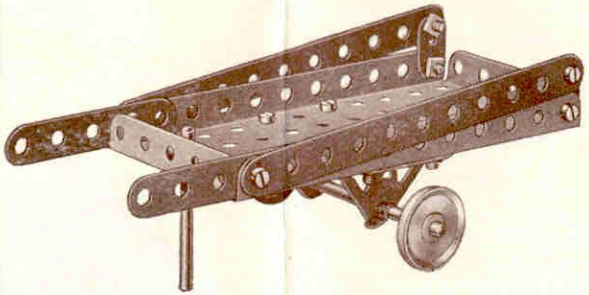


Fig. OO.9a

Parts Required

2 of No.	2
2 " "	5
2 " "	10
2 " "	12
1 " "	16
1 " "	17
2 " "	22
2 " "	35
8 " "	37a
8 " "	37b
2 " "	38

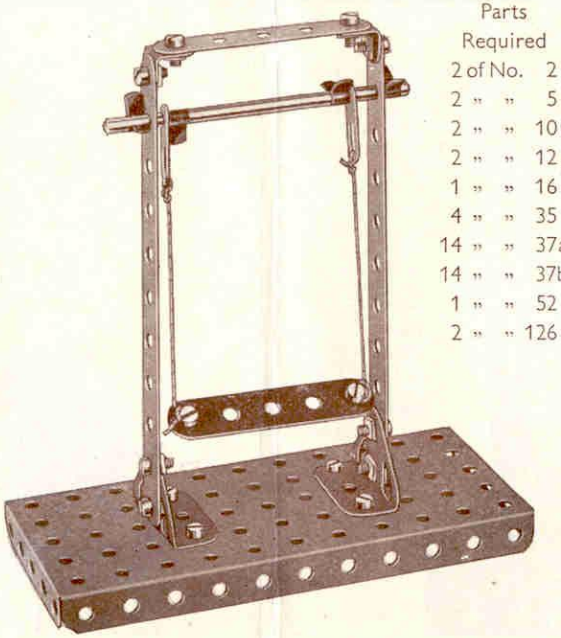
OO.10 COSTERS BARROW



Parts Required

2 of No.	2	1 of No.	17	10 of No.	37b
2 " "	5	2 " "	22	1 " "	52
2 " "	10	4 " "	35	2 " "	126
1 " "	16	10 " "	37a		

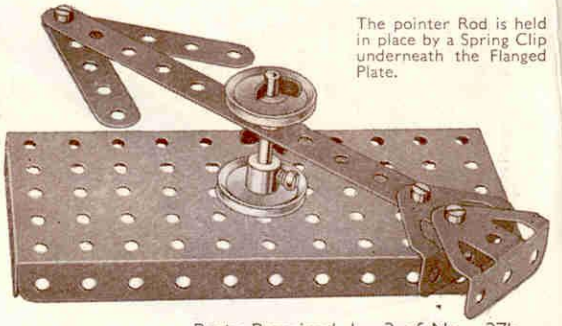
OO.11 SWING



Parts Required

2 of No.	2
2 " "	5
2 " "	10
2 " "	12
1 " "	16
4 " "	35
14 " "	37a
14 " "	37b
1 " "	52
2 " "	126

OO.12 POINTER



The pointer Rod is held in place by a Spring Clip underneath the Flanged Plate.

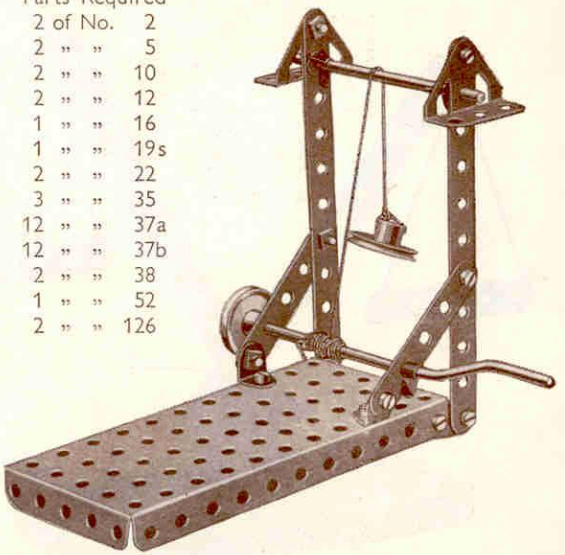
Parts Required

1 of No.	2	2 of No.	22	3 of No.	37b
2 " "	5	3 " "	35	2 " "	38
1 " "	17	3 " "	37a	1 " "	52
				2 " "	126

OO.13 WINDLASS

Parts Required

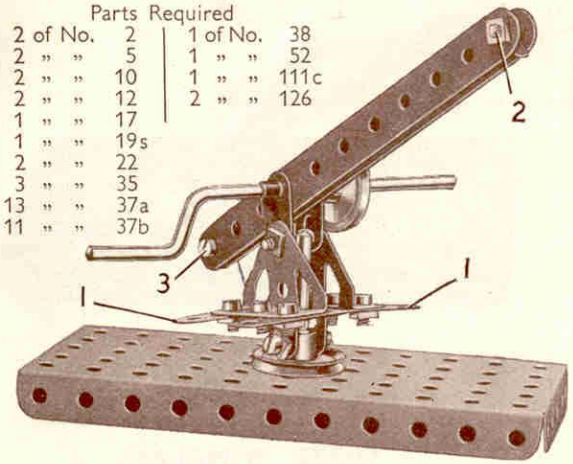
2 of No.	2
2 " "	5
2 " "	10
2 " "	12
1 " "	16
1 " "	19s
2 " "	22
3 " "	35
12 " "	37a
12 " "	37b
2 " "	38
1 " "	52
2 " "	126



OO.14 ANTI-AIRCRAFT GUN

Parts Required

2 of No.	2	1 of No.	38
2 „ „	5	1 „ „	52
2 „ „	10	1 „ „	111c
2 „ „	12	2 „ „	126
1 „ „	17		
1 „ „	19s		
2 „ „	22		
3 „ „	35		
13 „ „	37a		
11 „ „	37b		



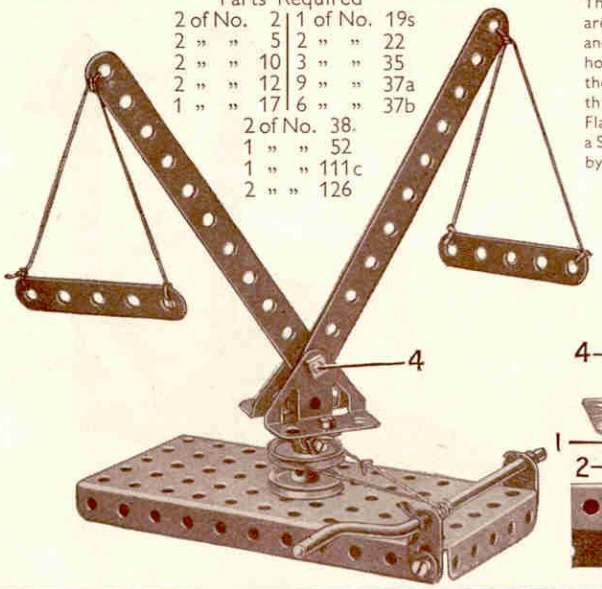
A 1" Pulley is supported on a 2" Rod held in the Flanged Plate by a Spring Clip. Two Angle Brackets are fastened to the boss of the Pulley by passing a nut and bolt through each Angle Bracket and screwing the bolt into a threaded hole in the boss of the Pulley. The nut is then tightened against the Angle Bracket. A Trunnion is bolted to each Angle Bracket, and the Trunnions are connected by 2½" Strips (1).

Two 5½" Strips are separated by a Spring Clip on a ⅜" Bolt (2), and are pivoted on a Crank Handle. A length of cord tied to the Crank Handle is passed through one of the Strips (1) and is fastened to a bolt (3).

OO.15 MERRY-GO-ROUND

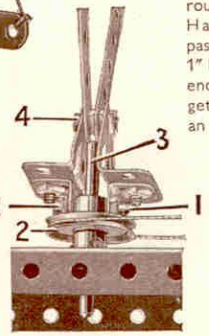
Parts Required

2 of No.	2	1 of No.	19s
2 „ „	5	2 „ „	22
2 „ „	10	3 „ „	35
2 „ „	12	9 „ „	37a
1 „ „	17	6 „ „	37b
2 of No.	38		
1 „ „	52		
1 „ „	111c		
2 „ „	126		



The bolts (1), each fitted with a nut, are passed through Angle Brackets and are screwed into the threaded holes in the boss of a 1" Pulley 2 until they grip a 2" Rod 3. This Rod is passed through a second 1" Pulley and the Flanged Plate and is held in position by a Spring Clip. The 5½" Strips are fixed by nuts on a ⅜" Bolt (4), Fig. OO.15a

A piece of cord is wrapped two or three times round the Crank Handle, then passed round the 1" Pulley, and its ends are tied together to make an endless belt.



OO.15a.

OO.16 TABLE

The method in which the legs are fitted to the table top is clearly shown in the illustration below.

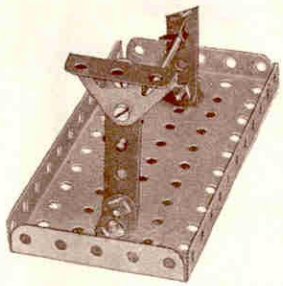


Fig. OO.16a

Parts Required

2 of No.	5	2 of No.	35	8 of No.	37b
2 „ „	12	1 „ „	52	2 „ „	126
1 „ „	16	8 „ „	37a		

OO.17 SWIVEL CRANE

The Pulley (1) is fixed by its set-screw on a ⅜" Bolt passed through the Flanged Plate. The Angle Brackets (2) are held on bolts screwed into the threaded holes in the boss of the Pulley. The 5½" Strips are separated at their upper ends by two Washers on a ⅜" Bolt (3).

The hoisting cord is tied to the Crank Handle between the 2½" Strips.

Parts Required

2 of No.	2	1 of No.	16
2 „ „	5	1 „ „	17
2 „ „	12	1 „ „	19s
		2 „ „	22
		2 „ „	35
		8 „ „	37a
		6 „ „	37b
		1 „ „	52
		2 „ „	111c
		2 „ „	126

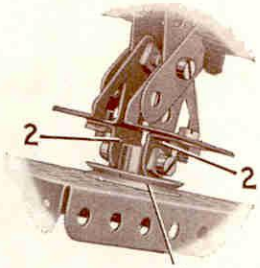
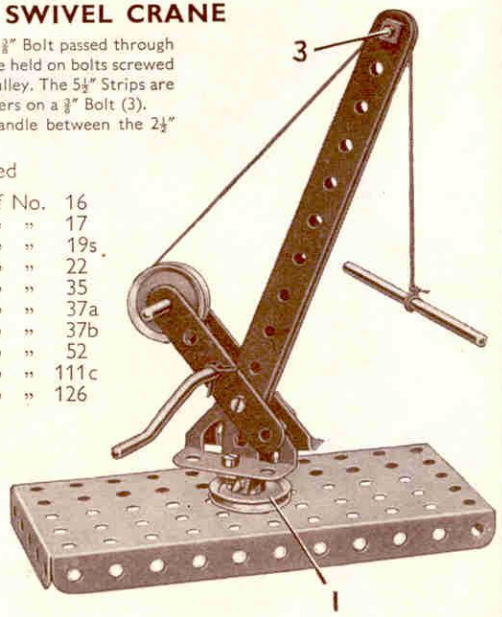
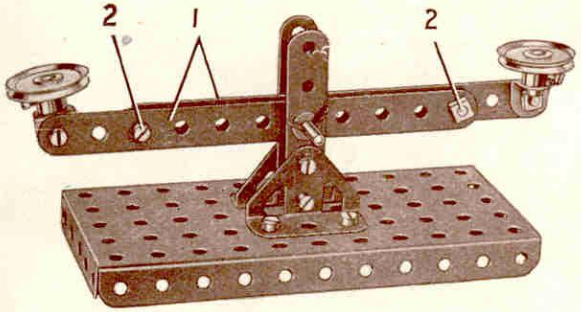


Fig. OO.17a

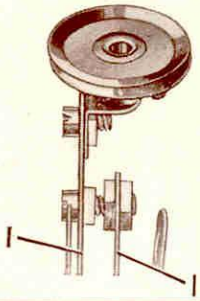


OO.18 SCALES



5½" Strips (1) are held apart by nuts on ⅜" Bolts (2) (see Fig. OO.18a). The 1" Pulleys are fixed by their boss screws on bolts pushed through Angle Brackets.

Fig. OO.18a



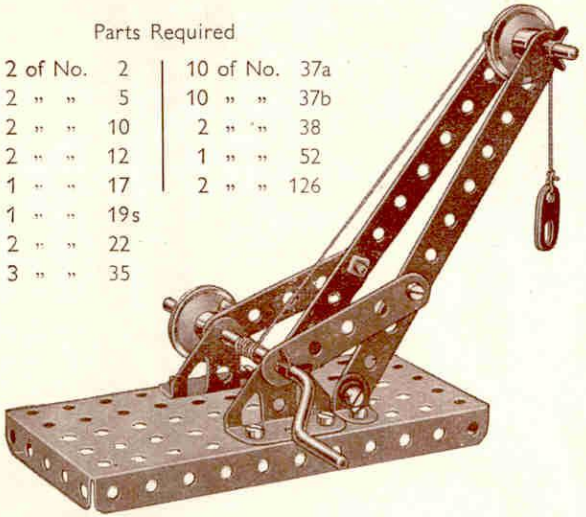
Parts Required

2 of No.	2	2 of No.	22	2 of No.	38
2 " "	5	2 " "	35	1 " "	52
2 " "	12	16 " "	37a	2 " "	111c
1 " "	17	10 " "	37b	2 " "	126

OO.19 CRANE

Parts Required

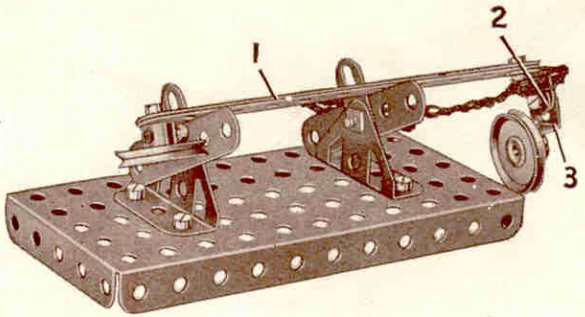
2 of No.	2	10 of No.	37a
2 " "	5	10 " "	37b
2 " "	10	2 " "	38
2 " "	12	1 " "	52
1 " "	17	2 " "	126
1 " "	19s		
2 " "	22		
3 " "	35		



OO.20 TELEPHONE

Parts Required

2 of No.	2
2 " "	5
2 " "	10
2 " "	12
8 " "	37a
8 " "	37b
1 " "	38
1 " "	52
1 " "	111c
2 " "	126



The telephone arm consists of two 5½" Strips (1), and at one end of these a 1" Pulley is fixed, by the screw in its boss, on a ⅜" Bolt passed through the Strips. At the other end is an Angle Bracket (2). A second Angle Bracket (3) is bolted to Angle Bracket (2). A bolt is passed through Angle Bracket (3) and is screwed into a threaded hole in the boss of a 1" Pulley

OO.21 RAILWAY SIGNAL

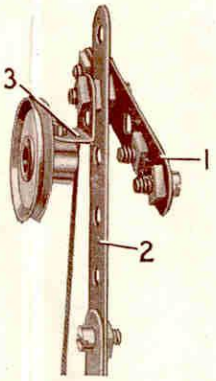


Fig. OO.21a

The signal arm is fixed by a nut on a ⅜" bolt passed through the signal post 2, and an Angle Bracket 3 is held on the Bolt by two nuts. *The arm must swivel freely in the post.* The lever (4) pivots freely on a bolt that is fixed by two nuts to an Angle Bracket 5. A 1" Pulley is attached to the Angle Bracket 3 by a bolt screwed into the boss of the Pulley. A second 1" Pulley is fixed by its set-screw to a ⅜" bolt passed through the lever (4).

A piece of cord is tied to the lever (4) and is passed through a hole in the Flanged Plate. The Cord is taken underneath the Plate, is passed through another hole and is fastened to a Fishplate bolted to the signal arm.

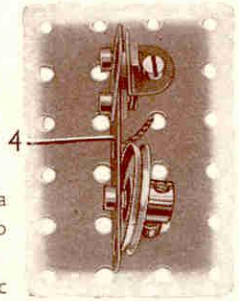
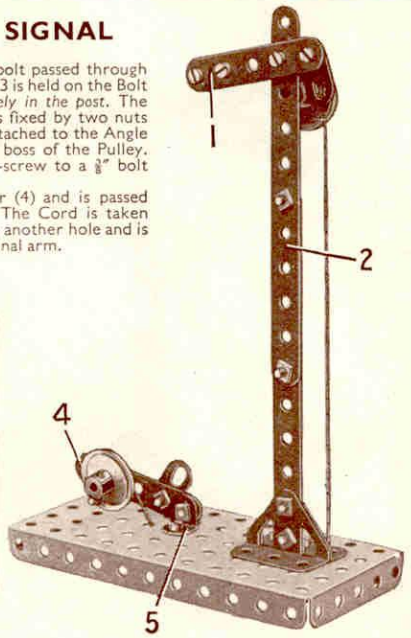


Fig. OO.21b



Parts Required

2 of No.	2	15 of No.	37a
2 " "	5	11 " "	37b
2 " "	10	1 " "	52
2 " "	12	2 " "	111c
2 " "	22	2 " "	126