



MODEL-BUILDING WITH MECCANO

There is no limit to the number of models that can be built with Meccano—Cranes, Clocks, Motor Cars, Ship Coalers, Machine Tools, Locomotives—in fact everything that interests boys. A screwdriver and a spanner, both of which are provided in each Outfit, are the only tools necessary.

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

HOW TO BUILD UP YOUR OUTFIT

Meccano is sold in eleven different Outfits, ranging from No. O to No. 10. Each Outfit from No. 1 upwards can be converted into the next one larger by the purchase of an Accessory Outfit. Thus, Meccano No. 1 Outfit can be converted into No. 2 Outfit by adding to it a No. 1a Accessory Outfit. No. 2a Outfit would then convert jt into a No. 3 and so on. In this way, no matter with which Outfit you commence, you can build it up by degrees until you possess a No. 10 Outfit.

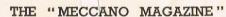
All Meccano parts are of the same high quality and finish, but the larger Outfits contain a greater quantity and variety, making possible the construction of more elaborate models.

As shown in the illustrations, the realism of many models can be increased by the inclusion of the figures, motor vehicles and other items from the Dinky Toys Series; pilots and drivers from the Aeroplane and Motor Car Constructor Outfits; trees and hedges from the Hornby Railway Series; Meccano sacks, cable drums, etc. These items are not included in any of the Outfits. A Clockwork Motor is included in Outfits 7a, 8, 9 and 10 only, and an Electric Motor in Outfits 9a and 10 only.

ELECTRIC LIGHTING OF MECCANO MODELS

It is great fun to illuminate your Meccano models by electric light, and a special Meccano Lighting Set can

be obtained from your dealer for this purpose. This consists of two spot lights with plain and coloured imitation glass discs, one stand lamp, two special brackets, and two pea lamps, operated from a 4-volt flash-lamp battery (not included in the Set). The stand lamp is used for decorative purposes, and the spot lights can be used as headlamps, floodlights on cranes, and in countless other ways.



The "Meccano Magazine" is published specially for Meccano boys. Every month it describes and illustrates new Meccano models for Outfits of all sizes, and deals with suggestions from readers for new Meccano parts and for new methods of using the existing parts. There are model-building competitions specially planned to give an equal chance to the owners of small and large Outfits. In addition, there are splendid articles on such subjects as Railways, Famous Engineers and Inventors, Electricity, Chemistry, Bridges, Cranes and Aeroplanes, and special sections dealing with the latest Engineering, Aviation, Shipping and Road and Track News. Other pages deal with Stamp Collecting, and Books of interest to boys; and a feature of outstanding interest is the section devoted to short articles from readers.

The "Meccano Magazine" is the finest of all papers for boys who are interested in the wonderful things going on in the world around them. It is published on the first of each month. If you are not already a reader write to the Editor for full particulars, or order a copy from your Meccano dealer, or from any newsagent.

THE MECCANO GUILD

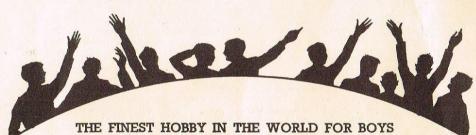
Every owner of a Meccano Outfit should join the Meccano Guild. This is a world-wide organisation, started at the request of Meccano boys. Its primary object is to bring boys together and to make them feel that they are all members of a great brotherhood, each trying to help others to get the very best out of life. Its members are in constant touch with Headquarters, giving news of their activities and being guided in their hobbies and interests. Write for full particulars and an application form to the Secretary, Meccano Guild, Binns Road, Liverpool 13.

Clubs founded and established under the guidance of the Guild Secretary provide Meccano boys with opportunities of enjoying to the utmost the fun of model-building. There are nearly 200 active clubs in Great Britain, and nearly 100 in countries overseas, each with its Leader, Secretary, Treasurer and other officials. With the exception of the Leader, all the officials are boys, and as far as possible the proceedings of the clubs are conducted by boys.

Recruiting Medallions are awarded to members who are successful in securing recruits for the Guild, and good work on behalf of Meccano clubs, or of the Guild generally, is recognised by the presentation of special Merit Medallions. Full particulars of both these awards will be sent post free on request.

MECCANO SERVICE

The service of Meccano does not end with selling an Outfit and an Instruction Manual. If ever you are in any difficulty with your models, or if you want advice on anything connected with this great hobby, write to us. We receive every day hundreds of letters from boys in all parts of the world, and each of these is answered personally by one of our staff of experts. Whatever your problem may be, write to us about it.

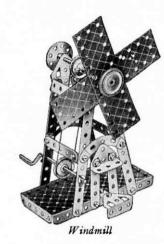


HOW TO COMMENCE THE FUN

THE MOST FASCINATING OF ALL HOBBIES

Meccano model-building is the most fascinating of all hobbies, because it never becomes dull. There is always something new to be done. First of all there is the fun of building a new model, and watching it take shape as part after part is added. Then, when the model is complete, comes the thrill of setting it to work just like the real structure it represents, by means of a Meccano Motor. This wonderful process can be repeated indefinitely, for there is no end to the number of Meccano models that can be built. Another point is that models built with Meccano are real engineering structures in miniature, and the keen model-builder has wonderful opportunities for learning the working of machines and mechanisms of all kinds. So he acquires practical engineering knowledge without special study.

It is so simple to build Meccano models that operations can be started as soon as the first Outfit is opened. Different boys build in different ways, but in the end they all reach the same splendid results. The following hints are given with the object of showing boys who are just commencing the wonderful Meccano hobby how to obtain the greatest possible fun.



THE IMPORTANCE OF "LOCK-NUTTING"

In building models in which Rods revolve in the holes of other parts it is important to make sure that such holes are exactly in line with one another. This can be done very easily by pushing through the holes a long Rod before the Bolts holding the various parts are tightened up.

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, meanwhile, being held with a spanner. This method of using a second Nut is known as lock-nutting, and it is employed in a large number of Meccano models.

During the construction of a model it is best to screw up the Nuts with the fingers, followed by just a light turn with the screwdriver, leaving the final tightening with spanner and screwdriver until all the parts are connected up.

A FEW USEFUL HINTS

Floating

Crane

It will be noticed that with each model shown in this Manual of Instructions is given a list of the parts required to build it. For the first few models it is a good plan to lay out on the table all the parts required for the one it is proposed to build, and put the remainder of the Outfit on one side. To help you to pick out the correct parts for your model a complete list of Meccano parts is given at the back of this Manual, and all the principal parts are illustrated. In the list the parts are all numbered, and in most cases their measurements are given. There is no need, however, to measure the parts to find out which is which, as the size is easily found from the number of holes. All Meccano holes are spaced $\frac{1}{2}$ " apart, so that by counting two holes to the inch the size of any part can be found at once. For instance, Part No. 2 is listed as a $5\frac{1}{2}$ " Perforated Strip, so you look in your Outfit for a Strip with eleven holes. Similarly No. 192 is a $5\frac{1}{2}$ " X $2\frac{1}{2}$ " Flexible Plate, so you look for a Flexible Plate eleven holes in length and five holes in width. By the time a few models have been built the names of the parts will have become familiar.

Beginners sometimes wonder which section of a model should be built first. There cannot be any definite rule for this, as it depends on the design of the model. In stationary models the base usually should be built

first. In most of the smaller models a $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate forms an important part of the structure, and often the best plan is to start building by bolting parts to this Plate. For other models a good general rule is that the sections that form supports for a number of other parts should be built first.

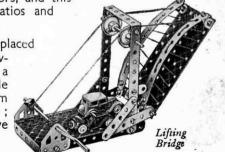
MOTORS AND GEARING

Models can be operated by means of either Meccano Clockwork or Electric Motors.

The Clockwork Motors have the advantage of being self-contained and extremely simple. If only a small amount of power is needed, the model may be driven direct from the driving spindle of the Motor or through a belt running over two pulleys of the same size, giving what is described as a 1:1 (one-to-one) ratio. Greater power can be obtained by a reduction in the speed of the drive, which can be produced in a simple manner by connecting a small pulley on the Motor to a larger pulley by means of a belt. Thus if a 1" Pulley is made to drive a 3" Pulley, a reduction ratio of approximately 1:3 is obtained. This means that the driven shaft will take about three times the load that the driving shaft would handle, but will rotate at only one-third of the speed. Rubber bands are better than Cord for driving belts for most purposes.

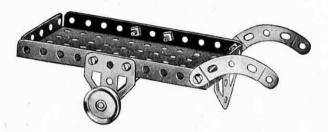
The Electric Motors have the advantage of giving long continuous runs. Their speed is much higher than that of the Clockwork Motors, and this makes it possible to employ higher reduction ratios and thus obtain greater power.

With the larger Outfits, belt drive can be replaced with advantage by gearing. To operate a slow-moving model demanding great power, such as a traction engine, gears that will provide a considerable reduction must be used. For example, a Worm meshed with a ½" Pinion will give a 1:19 reduction; while a Worm meshed with a 57-teeth Gear will give a 1:57 reduction.



These Models can be built with MECCANO No. O Outfit

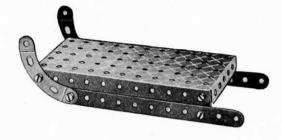
O.1 HAND CART



Parts required

	, ai es i oquii ou	
1 of No. 16	1 of No. 52	2 of No.126a
2 " " 22	2 " " 90a	2 " "155a
8 37	1 126	

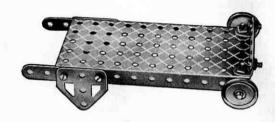
O.2 SLEDGE



Parts required

2 of No	2 1	8 of No. 37	2 of No. 90a
2 ""	10	1 " " 52	**************************************

O.3 FLAT TRUCK



Parts required

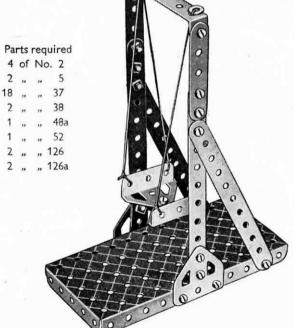
	i ai is required	
2 of No. 5	2 of No. 22	1 of No. 90a
2 " " 12	20 7000	2 " "126a
1 " " 16	4	2 155a

O.4 DOCKSIDE CRANE

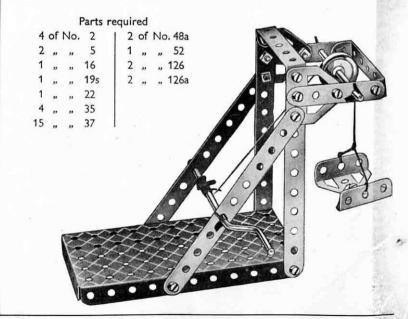


Parts required 4 of No. 2
2 , , , 5
3 , , , 12
1 , , , 17
1 , , , 19s
1 , , , 22
1 , , , 24
2 , , , 35
18 , , , 37
2 , , , 37
2 , , , 38
2 , , , 48a
1 , , , 52
2 , , , 90a
2 , , , 111c
2 , , , 126
2 , , , 126a

O.5 SWING



O.6 ELEVATOR

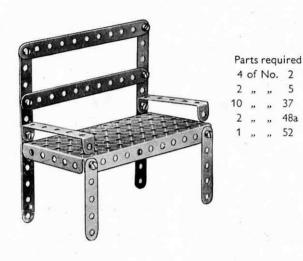


Parts required

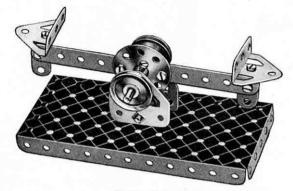
" 126a

O.7 GARDEN SEAT

52



O.8 COUNTER SCALES

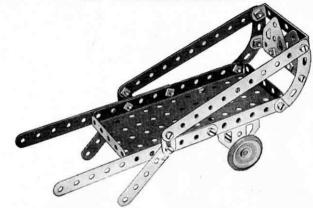


Parts required

1	of	No.	2	1	2	of	No.	22	1	1	of	No	. 52
2	,,	,,	10		1	,,	,,	24		2	,,	,,	126
4	,,	,,	12		9	,,	,,	37		2	,,	,,	126a
1	22	,,	17		2	,,	,,	38					

O.11 SCALES

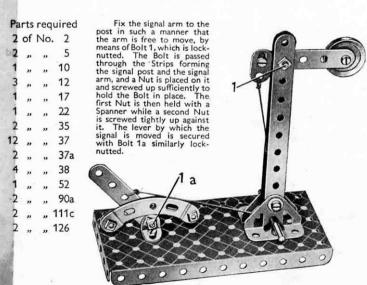
O.9 COSTER'S BARROW



Parts required

4	of	No.	2	1 2	of	No.	22	1 2	of	No.	90a
2	,,	,,	5	16	,,	,,	37	2	,,	,,	126
2	,,	23	10	2	,,	,,	48a	2	,,	,,	126a
1	,,	"	16	1	,,	,,	52	2	,,	,,	155a

O.10 SIGNAL

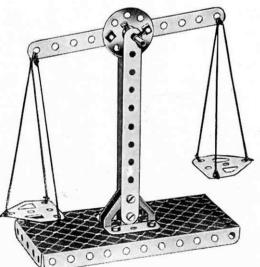


Parts required 3 of No. 2

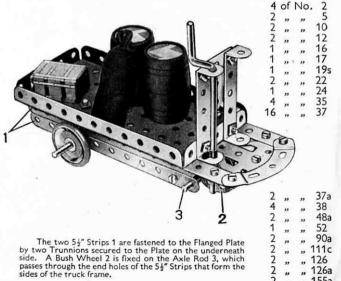
" 24

" 126

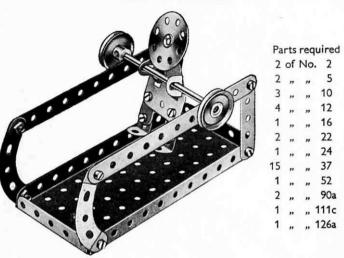
2 " "126a

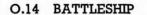


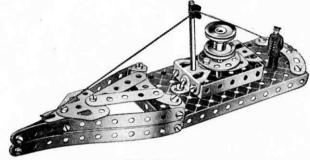
O.12 ELECTRIC TRUCK







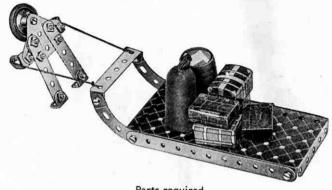




Parts required

4 of No. 2	1 2 of No. 22 1	1 of No. 52
2 " " 5	1 " " 24	2 " " 90a
3 " " 10	3 " " 35	1 " "111c
4 " " 12	18 " " 37	2 " "126
1 ,, 16	1 " " 37a	2 " "126a
1 " " 1/	2 " " 48a	

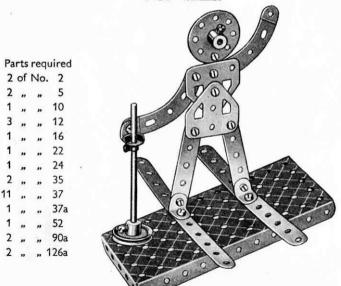
O.15 ESKIMO BOY AND SLEDGE



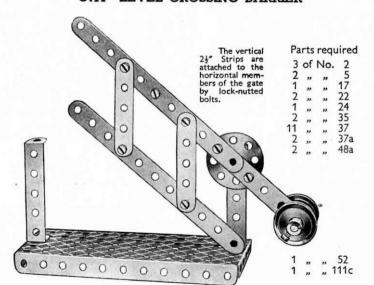
Parts required

2	of	No.	2	1 1	of	No.	22	1 2	of	No. 90
2	,,	,,	5			,,		1		" 1110
2	,,	,,	10	1	,,	,,	48a	1	,,	
4	,,	,,	12	1	,,	,,	52	1 1	,,	" 155а

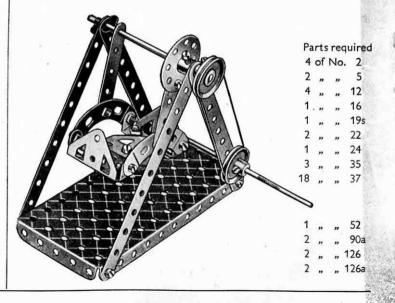
O.16 SKIER



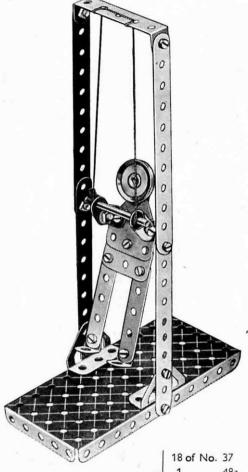
O.17 LEVEL CROSSING BARRIER



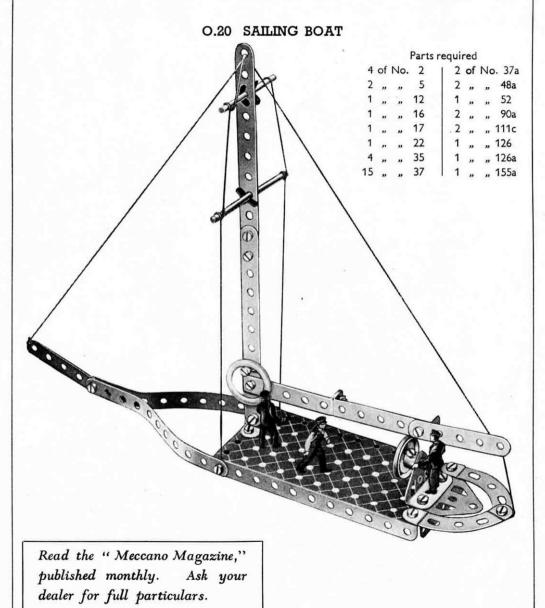
O.18 SWING-BOAT



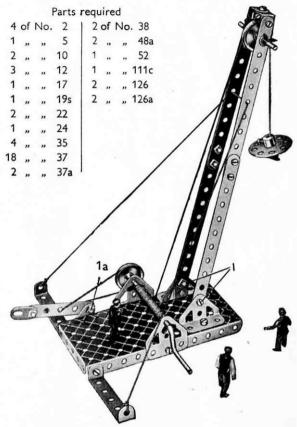
O.19 TRAPEZE ARTIST



000	00	18 of No. 37
		1 " " 48a
Parts required	4 of No. 12	1 " " 52
4 of No. 2	1 " " 17	1 " "111c
2 " " 5	1 " " 22	2 " "126
3 " " 10	2 " " 35	2 " "126a



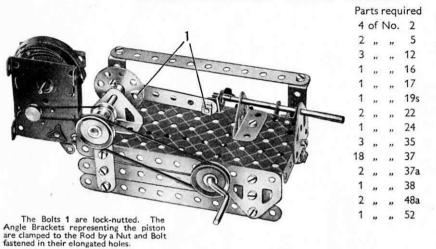
O.21 DERRICK CRANE



The construction of the model is commenced by bolting the Trunnions and Flat Trunnions that support the jib and Crank Handle respectively to the 5½"×2½" 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 2½" Strip extended by a Flat Bracket and is fastened to a second Flat Bracket bolted to the Flanged Plate, by means of a lock-nutted Bolt 1a. A length of Cord is fastened to the lever and then passed round the 1" Pulley on the Crank Handle.

THE MECCANO MAGIC MOTOR

O.M22 STATIONARY STEAM ENGINE



2 of No.126 2 " "126a Magic Motor

Parts required 3 of No. 2 2 5

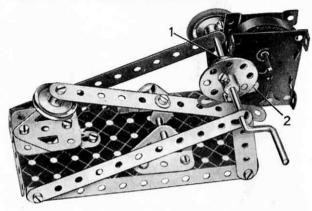
1 of No. 10

15 " " 37 " 52

" 111c 2 126 2 " "126a

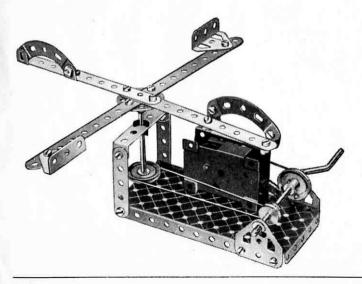
1 " "155a Magic Motor

O.M23 MECHANICAL HAMMER



The ½" fast Pulley 1 is driven from the pulley 2 on the Magic Motor by the Driving Band supplied with the Motor.

O.M24 MERRY-GO-ROUND



Parts required 4 of No. 2 22 " 24 35 ., 37

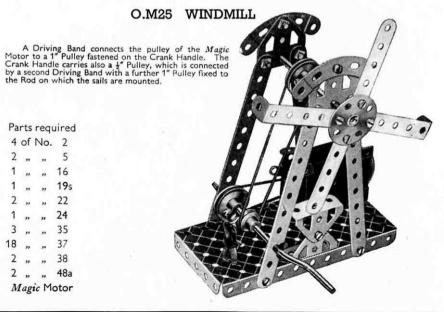
The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Magic Motor. The illustrations on this page show how the Magic Motor can be fitted without any difficulty to No. O Outfit models of various types. Fit the model you have just built with one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

2 of No.111c 1 of No. 52 2 " "126 2 " "126a 2 " "126 Magic Motor

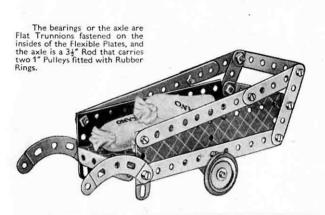
Magic Motor

Parts required

4 of No. 2



1.1 PORTER'S TRUCK



Pa	rts	requ	ired
4	of	No.	2
4	,,	,,	5
2	,,	,,	10
1	,,	,,	16
2	,,	,,	22
14	,,	,,	37
2	,,	,,	38
2	,,	,,	48a
1	,,	,,	52
2			90a

2 " "155a

2 " " 189

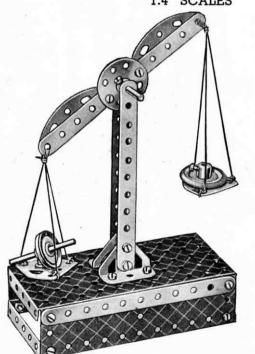
1.2 BATTLESHIP

1.3 WINDMILL The sails on the 3½ "Repuller 3½" Repuller 3½ "Repuller 3½ "Repuller

Parts required
4 of No. 2
4 " " 5
1 " " 10
4 " " 12
1 " " 16
1 " " 19s
4 " 22
1 " 24
3 " 35
24 " 37
4 " 38
1 " 40
2 " 48a
1 " 52
2 " 90a
2 " 126
2 " 126a
1 " 155a
2 " 189

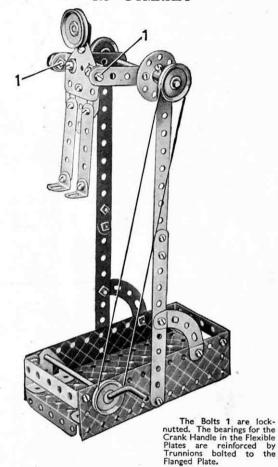
The sails are gripped on the 3½" Rod by the 1" Pulley (with tyre) at the front and another 1" Pulley at the back of the sails. The Pulleys are pressed against the faces of the sails and locked on the Rod.

1.4 SCALES



Parts required
4 of No. 2
2 " " 5
2 " " 17
2 " 22
1 " 24
19 " 37
1 " 38
1 " 40
2 " 48a
1 " 52
2 " 90a
1 " 111c
2 " 126
2 " 126a
1 " 155a
2 " 189

1.5 GYMNAST

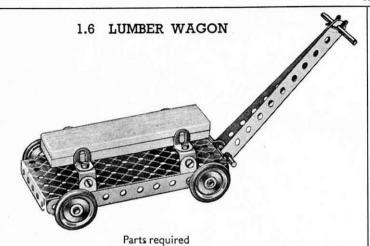


Parts required

			LS	1 64	uireu			
4 of No.	2	1 (of N	١٥.	24	1	of I	No. 52
4 " "	5	2	,,	,,	35	2	,,	" 90a
1 " "	10 2	4	,,	,,	37			" 111c
4 " "	12	4			37a	2	,,	" 126
1 " "	16	4	,,	,,	38	2	,,	" 126a
1 " "	19s	1	,,	,,	40	2		" 189
4 " "	22	2	,,	,,	48a			

4 of No. 2

4 " " 10



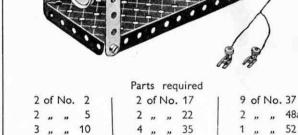
4 of No. 35

14 " " 37

1 of No. 52

4 " "155a

1.7 TABLE Parts required 2 of No. 2 8 of No. 37 1 of No. 52 4 " " 5 | 2 " " 48a



4 " " 35

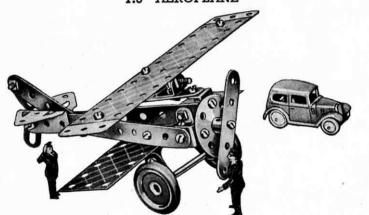
1.8 BUFFER STOPS

The model is fitted with a Spotlight from a Meccano Lighting Set.

1.9 AEROPLANE

2 of No. 16

2 " " 17

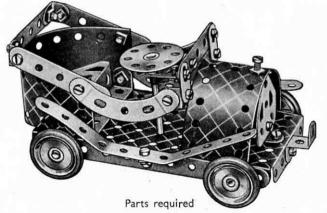


Parts required

2 of No. 2	1 of No. 17	2 of No. 37a	2 of No.126
3 " " 5	2 " " 22	1 " " 38	2 " "126a
4 " " 10	1 " " 24	3 " "111c	2 " "155a
8 " " 12	17 " " 37	1 " " 125	2 " "189

1.10 "KIDDIE KAR"

The model is shown with a Stand Lamp from a Meccano Lighting Set.



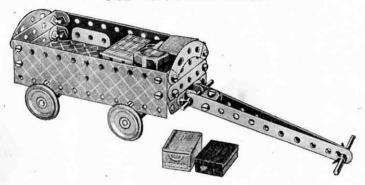
4 of No. 2	1 of No. 17	1 3 of No. 37a	1 of No. 125
4 " " 5	4- " " 22	2 " " 48a	2 " " 126
3 " " 10	1 " " 24	1 " " 52	1 " "126a
7 " " 12	1 " " 35	2 " " 90a	4 " "155a
2 " " 16	24 " " 37	2 " "111c	2 " "189

Two Trunnions overlapped one hole, and fastened to the Flanged Plate by an Angle Bracket, form the seat.



A good example of the use of the Meccano Lighting Set.

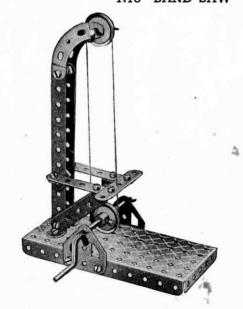
1.12 BAGGAGE TRUCK



Parts required

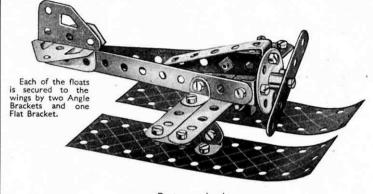
2 of	No	. 2	1 4	of	No	. 35	1 2	of	No. 90a
2 "	,,	5	24	,,	,,	37	1	,,	" 111c
8 "	,,	12	1	,,	,,	37a	2	,,	" 126
2 "	,,	16	2	,,	,,	38	2	,,	" 126a
2 "	,,	17	2	,,	,,	48a	4	,,	" 155a
4 "	,,	22	1	,,	,,	52	2	,,	" 189

1.15 BAND SAW



Parts required 2 of No. 2 4 ,, ,, 5 6 ,, ,, 12 1 ,, ,, 17 1 ,, ,, 19s 2 ,, ,, 22 4 ,, ,, 35 19 ,, ,, 37 1 ,, ,, 40 1 ,, ,, 52 2 ,, ,, 90a 2 ,, ,, 126a

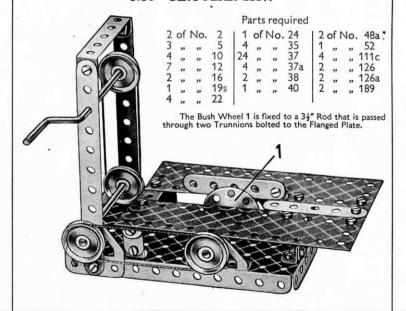
1.13 RACING SEAPLANE



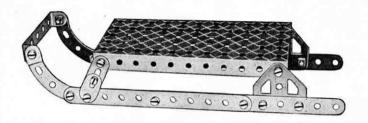
Parts required

3	of	No.	2	1	1	of	No.	. 24	, 2	of I	No	:1110
3	,,	,,	5	1	9	,,	,,	37	2	,,	,,	126
4	,,	,,	10		1	,,	,,	37a	1	,,	,,	126a
8	,,	"	12	1	1	,,	,,	48a	2	,,	,,	189

1.16 CIRCULAR SAW



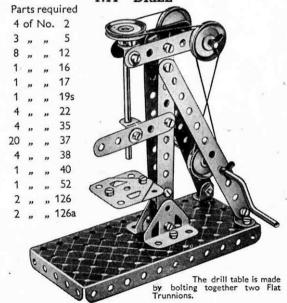
1.14 SLEDGE

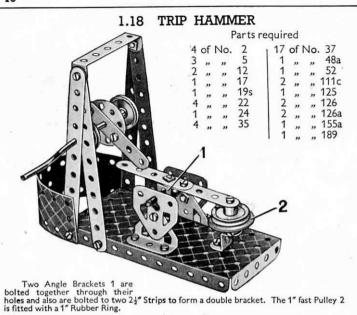


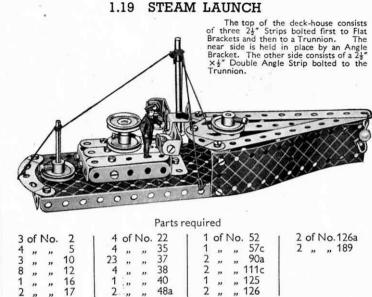
	Parts requi	red	
1	1 of No. 4	18a	2 of No.126
	1 5	: 1	

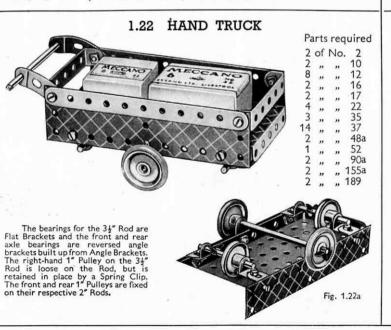
4 of No. 2

1.17 DRILL





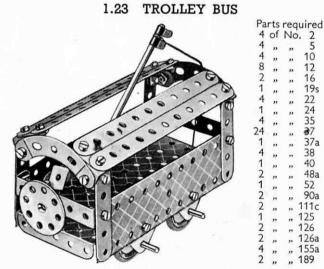




The Bolts 1 are lock-nutted. The rear axle Rod is pushed through the end hole of the Curved Strip 2.

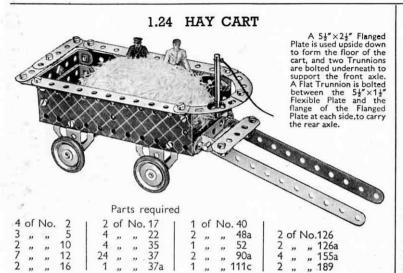
1.20 COASTER

	Parts required	
3 of No. 2 4 , , , 5 5 , , , 12 2 , , , 16 1 , , , 17 4 , , , 22	1 of No. 35 20 ,, 37 4 ,, 37a 4 ,, 38 1 ,, 40 2 ,, 48a	2 of No. 90 2 , , , 111 1 , , , 125 2 , , , 126 2 , , , 126 4 , , , 155
1 " " 24	1 " " 52	1 " " 189

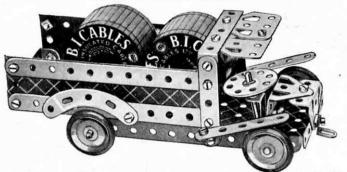


The Reversed Angle Bracket that holds the trolley is fixed in position by a Bolt passed through the slot in the Bracket, then through two Washers, and into the boss of the Bush Wheel.

1.21 LIFTING BRIDGE The Bolts, 1 on which the bridge span pivots, are lock-nutted. 1 of No. 19s | 1 of No. 40 | 2 m, 22 | 1 m, 48a | 4 m, 35 | 1 m, 52 | 4 m, 7 5 | 1 m, 11c | 5 m, 37a | 2 m, 11c | 2 m, 37a | 3 m, 37a |



1.25 MOTOR LORRY

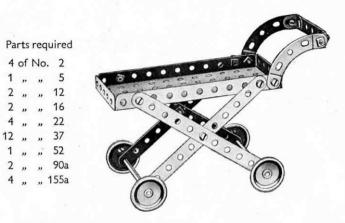


The $2\frac{1}{2}$ " Curved Strips representing the rear mudguards are each fastened to the sides by a $\frac{3}{4}$ " Bolt and Nut, with a Spring Clip between the mudguards and the $5\frac{1}{2}$ " Strip to form a distance piece.

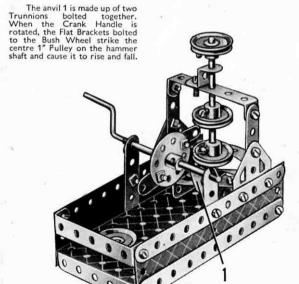
Parts required

4	of	No.	2 1	1	of	No	. 17	119	of	No	. 37	12	of	No	o. 90a I	2	of	No	.126a	
4	,,	,,	5	4	,,	,,	22	4	,,	,,	37a	3	,,	,,	111c 125 126	4	,,	,,	155a	
3	,,	,,	12	1	,,	,,	24	2	,,	,,	48a	1	,,	,,,	125	2	,,	,,	189	
2			16	2			35	1			52	12			126					

1.26 HOSPITAL TROLLEY



1.27 STAMPING MILL



Parts required

4 of No. 2

4 "" 5

4 "" 10

5 "" 12

1 "" 16

1 "" 19s

4 "" 22

1 "" 24

2 "" 37

3 "" 37

3 "" 48a

1 "" 52

1 "" 90a

4 "" 111c

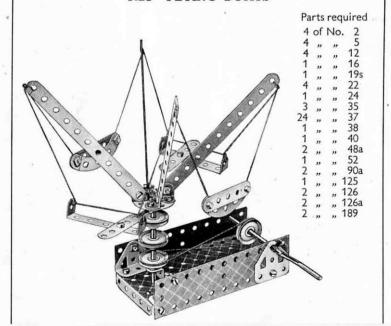
1 "" 125

2 "" 126

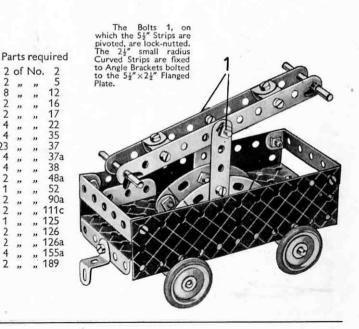
2 "" 126

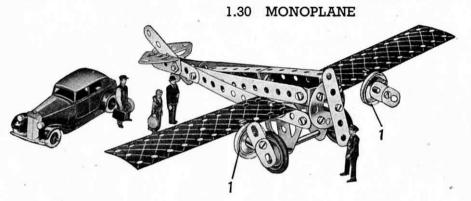
2 "" 189

1.28 FLYING BOATS



1.29 HAND CAR





The fast Pulleys 1 are fixed to Angle Brackets fastened to the wing by * Bolts, which are passed through the Angle Brackets, and held in the bosses of the Pulleys. The set screws of the Pulleys hold also a second Bolt on which the propellers are mounted.

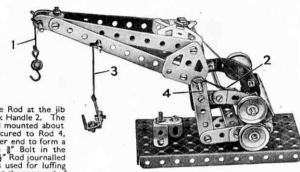
Parts required

1.31 FLOATING CRANE

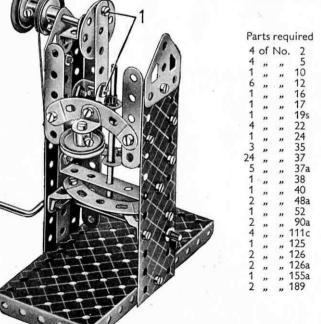
		P	arts	re	qui	red			
4	of	No.	2	1	2	of I	No	. 90a	
4	,,	,,	5	1	3	"	,,	111c	
4	,,	,,,	10	1	1	,,	,,	125	
7	,,	,,	12	1	2	,,	,,	126	
2	,,	,,	16	1	2	,,	,,	126a	
2	,,	,,	17						
1	,,	,,	19s						
4	,,	,,	22						

37a 38 52 57c

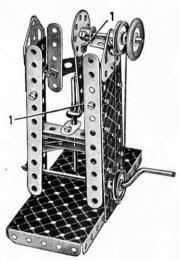
The Cord 1 passes over the Rod at the jib head and is fastened to the Crank Handle 2. The other Cord 3 passes over a Rod mounted about other Cord 3 passes over a Rod mounted about halfway along the jib, and is secured to Rod 4, which has a 1" Pulley at the other end to form a handle. The Cord tied to the \(\frac{1}{2}\)" Rod journalled above the Crank Handle, and is used for luffing the jib by turning the 1" Pulley at the rear end of the Rod. Two Angle Brackets and a Flat Bracket form the hook on Cord 3.

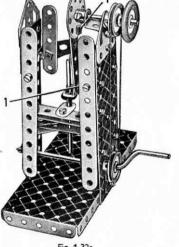


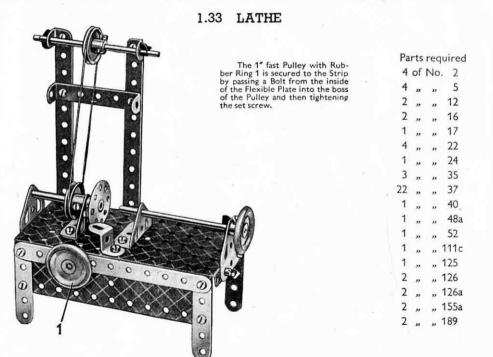
1.32 POWER PRESS

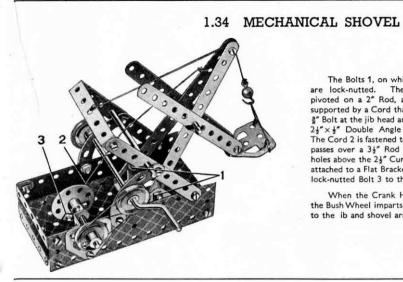


The Bolts 1 are lock-nutted, and the Angle Bracket at the lower end of the 2½" Strip has a 4½" Rod in its elongated hole, where it is held by means of two Spring Clips.









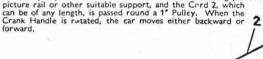
The Bolts 1, on which the jib pivots, are lock-nutted. The shovel arm is pivoted on a 2" Rod, and the shovel is supported by a Cord that passes over the #" Bolt at the jib head and is fastened to a 21"×1" Double Angle Strip as shown. The Cord 2 is fastened to the jib and then passes over a 34" Rod journalled in the holes above the 24" Curved Strips, and is attached to a Flat Bracket fastened by the lock-nutted Bolt 3 to the Bush Wheel.

When the Crank Handle is rotated, the Bush Wheel imparts a digging motion to the ib and shovel arm.

Pai	rts of	rec No	uired . 2 5 10 12 16 17 19s 22 24 35 37 37a 38a 40 48a 52 570c 90a 111c 125 126 126 137 137 137 137 137 137 137 137
4	,,	,,	5
1	,,	,,	10
2	,,	,,	12
1	"	,,	16
2	"	"	17
1	"	"	19s
3	,,	,,	22
1	"	,,	24
4	,,	,,	35
24	,,	"	3/
4	,,	,,	3/a
4	"	,,	38
1	,,	,,	40
2	,,	"	48a
1	,,	"	52
1	"	,,	5/c
2	,,	,,	90a
4	,,	,,	711c
1	,,	,,	125
2	,,	,,	126
1 2 1 2 1 3 1 4 4 4 4 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2	"" "" "" "" "" "" "" "" "" "" "" "" ""	"	126a
1	"	"	155a 189
2	,,	,,	189



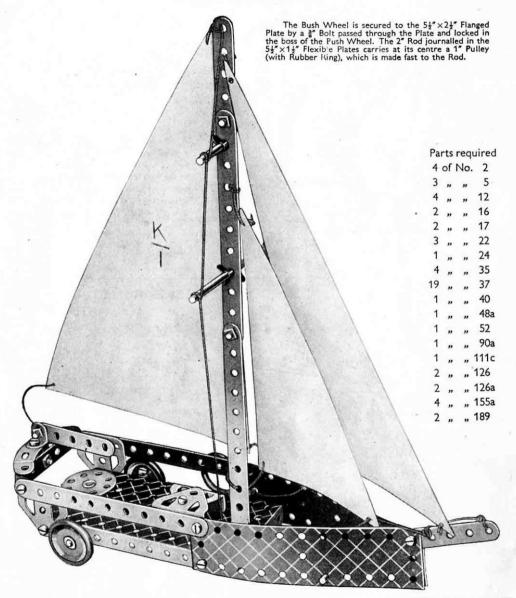
The anchoring piece 1 consists of two Trunnions bolted together, and a hook, which is made of two Angle Brackets fastened to them. A 2" Rod carrying a 1" fast Pulley is journalled in the Trunnions. The anchoring piece is hooked on a picture rail or other suitable support, and the Cord 2, which can be of any length, is passed round a 1" Pulley. When the Crank Handle is rwtated, the car moves either backward or



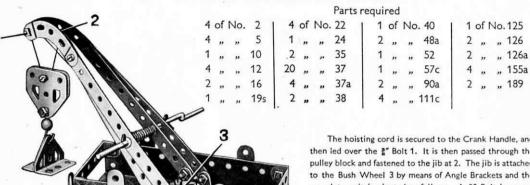
Parts required

		,	aits	requ	11	eu			
4	of	No.	2	1 4	1	of	No.	37a	
4	,,	,,	5		4	,,	,,	38	
2	,,	,,	10	1	1	,,	,,	40	
6	,,	,,	12	1	2	,,	,,	48a	
2	"	,,	16	1	1	,,	,,	52	
1	,,	,,	17	1 3	2	,,	,,	90a	
1	,,	,,	19s		4	,,	,,	111c	
4	,,	"	22		2	,,	,,	126	
1	,,	,,	24		2	,,	,,	126a	
4	,,	,,	35		2	,,	"	189	
24	,,	,,	37						

1.36 LAND YACHT



1.37 RAILWAY BREAKDOWN CRANE



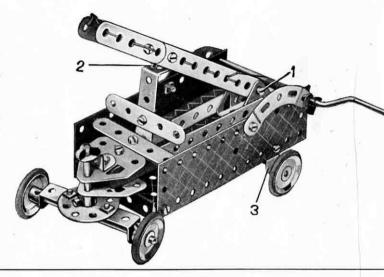
The hoisting cord is secured to the Crank Handle, and then led over the ?" Bolt 1. It is then passed through the pulley block and fastened to the jib at 2. The jib is attached to the Bush Wheel 3 by means of Angle Brackets and the complete unit is pivoted as follows. A 3" Bolt is passed through the 5½"×2½" Flanged Plate, and is secured in the boss of the Bush Wheel by its set screw.

Parts required

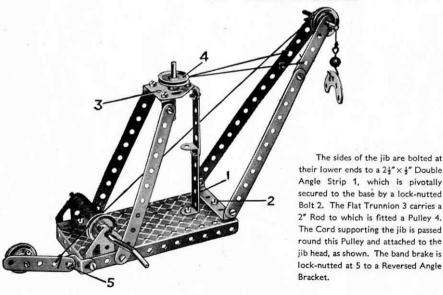
4	of	No.	2	1 2	of	No	. 38
4	,,	,,	5	1	.,	,,	40
3	,,	,,	5 10	2	,,	,,	48a
5			12	1	,,		52
2			16	2	,,	,,	90a
1			17	1 2 1 2 2 1 2 2 4 2	,,	.,	111c
1	,,	,,	19s	1	,,	,,	125
4	.,		22	2	,,	.,	126
1			24	2	,,		126a
4	,,	,,	35	4	,,	,,	155a
24			37	2	,,	,,	189
4 4 3 5 2 1 1 4 1 4 2 4 4	"	,,	37a.			. "	
				10.70			

Bolts 1 are lock-nutted. The sides of the ladder are held together by two Angle Brackets 2, which are bolted together to form a double bracket. The rear axle bearings 3 are Flat Brackets bolted inside the flange of the Flanged Plate. The Cord from the Crank Handle is tied in the fourth hole up the ladder so that when the Handle is turned it causes the ladder to lift.

1.38 FIRE ENGINE



DERRICK CRANE



Parts required 4 of No. 2 4 5 3 " " 12 4 " " 37a 1 " " 52 1 57c 2 " " 90a 1 " "111c 1 " " 125 2 " " 126 1 " "126a

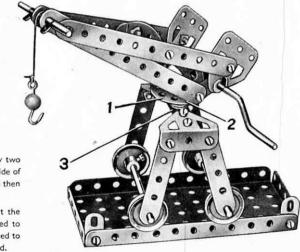
Parts required

				-4-11				
4	of	No.	2	20	of	No	. 37	
4	,,	,,	5	4	,,	,,	38	
4	,,	,,	10	1	,,	,,	40	
2	,,	,,	12	1	,,	,,	48a	
2	,,	,,,	16	1	,,	,,	52	
1	,,	,,	17	1	,,	,,	57c	
1	,,	,,	19s	2	,,	,,	90a	
4	,,	,,	22	1	,,	,,	111c	
1	,,	,,	24	2	,,	,,	126	
4	,,	,,	35	2	,,	,,	126a	

The sides of the jib are secured to the Bush Wheel 1 by two Angle Brackets 2. A 3" Bolt is passed from the underneath side of Strip 3 into the boss of the Bush Wheel 1 and the set screw is then tightened.

The Flat Trunnions at the lower end of the jib support the Crank Handle, which also passes through Flat Brackets bolted to the Angle Brackets 2 on the Bush Wheel 1. The Cord is fastened to the Crank Handle, and passes over the 2" Rod at the jib head.

1.40 TRAVELLING CRANE



1.41 RAILWAY TRUCK

Parts required 4 of No. 2 | 4 of N

 4 " " 5
 2 " " 48a

 2 " " 10
 1 " " 52

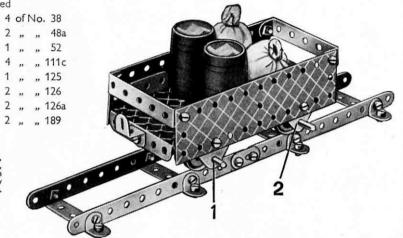
 8 " " 12
 4 " " 111c

 2 " " 16
 1 " " 125

 4 " " 22
 2 " " 126

24 ,, ,, 37 2 ,, ,, 126a 4 ,, ,, 37a 2 ,, ,, 189

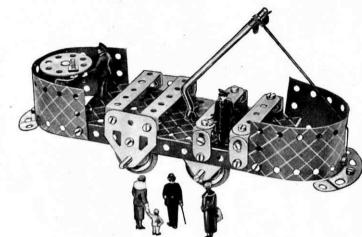
The axle bearings 1 are Flat Trunnions, and Trunnions are used for the bearings 2, which fit underneath the Flanged Plate in the manner shown in the underneath view of the model Side Tipping Wagon (1.M46).



1.42 OPEN TRAMCAR

Parts required

			1 al La	requi	10	u		
2	of	No.	5	1	1	of	No.	40
4	,,	**	10		2	,,	,,	48a
7	,,		12		1	,,		52
2	,,	,,	16		2	,,	.,	90a
1	,,	,,	19s		4	,,	,,	111c
4	,,	,,	22		1	,,	,,	125
1	,,	,,	24		2	,,	,,	126
4	,,	,,	35		2	,,	,,	126a
24	,,	,,	37		4	,,	,,	155a
3	,,	,,	37a		2	,,	.,	189



1.43 PITHEAD GEAR

Parts required

					-dau	- 0			
4	of	No.	2	1	4	of I	No.	38	
4	,,	,,	5		1	,,	,,	40	
4	,,	,,	10		2	,,	,,	48a	
2	,,	,,	12		1	,,	,,	52	
1	,,	,,	16		1	,,	,,	90a	
1	"	,,	19s		4	,,	,,	111c	
4	,,	,,	22		2	,,	,,	126	
4	,,	,,	35		2	"	,,	126a	
20	,,	,,	37	-	2	,,	,,	189	
4			37a						

A Cord is taken from each side of the lift cage over the 1° Pulleys and secured to each end of the Crank Handle. The Cords must both be the same length otherwise the lift will tilt.

The two guides for the lift consist of two pieces of Cord fastened to the Washers 1. The Cords are then passed through holes in the Double Angle Strip, through two corresponding holes in the lift cage 2, and then through the two corresponding holes in the Flanged Plate. Two more Washers are tied to the Cords beneath the Flanged Plate to keep the Cords tight. The lift cage 2 is made up of two Trunnions.

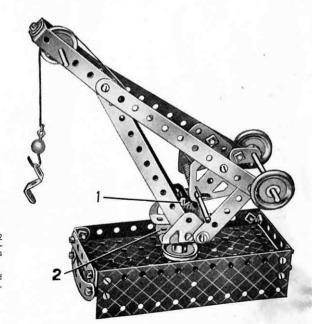
1.44 DOCKSIDE CRANE

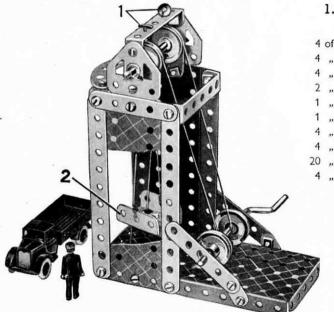
Parts required

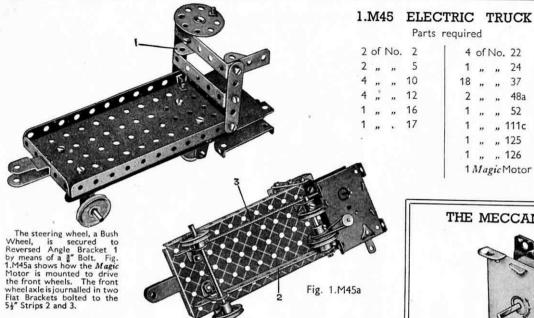
				1040	"	u			
4	of	No.	2	1	4	of	No.	. 38	
4	,,	,,	5		1	,,	,,	40	
2	,,	,,	10		2	,,		48a	
4	"	,,	12		1	,,	,,	52	
1	,,	,,	16		1	,,	,,	57c	
2	"	,,	17		2	,,	,,	90a	
1	,,	,,	19s		4	"	,,	111c	
4	,,	,,	22		1	,,	,,	125	
1	,,	,,	24		2	,,	,,	126	
4	,,	,,	35		2	,,	,,	126a	
24	,,	,,	37		2	,,	,,	155a	
4	,,		37a	1	2	,,	,,	189	

The Rod 1 passes through the bosses of the Bush Wheel 2 and the 1* Pulley, and is held in position by a Spring Clip underneath the Flanged Plate. The set screw of the Bush Wheel 2 is tightened on the Rod.

The $5\frac{1}{2}$ " Strips that form the jib are extended at the head by $2\frac{1}{2}$ " $\times \frac{1}{2}$ " Double Angle Strips, in which a 2" Rod is journalled.



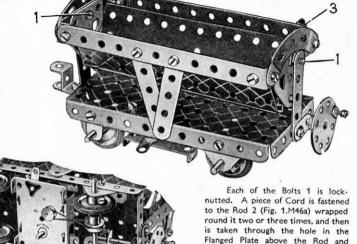




Parts required 2 of No. 2 4 of No. 22 2 " " 48a 1 " "111c 1 " " 125

1 " " 126 1 Magic Motor

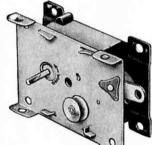
1.M46 SIDE TIPPING WAGON Parts required 3 of No. 2 of No. 90a " "111c " " 125 " " 126 155a " 189 1 Magic Motor



secured to the Angle Bracket 3.

container is tipped sideways.

By turning the Bush Wheel the



THE MECCANO MAGIC MOTOR

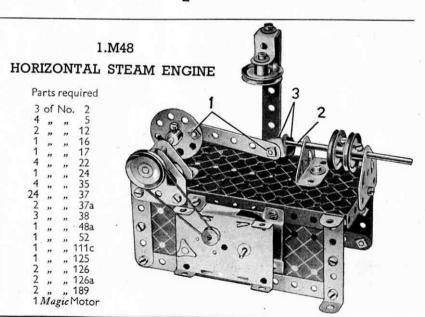


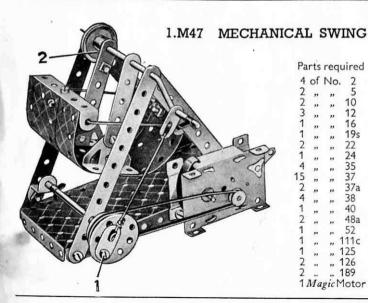
The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Magic Motor. The illustrations on this page show how the Magic Motor can be fitted without any difficulty to No. 1 Outfit models of various types. Fit the model you have just built with one of these wonderful Motors, and enjoy the fun of watching it work just like the real thing !

The left-hand 21" Strip that supports the swing is connected to the Crank Handle by passing the set screw of the 1" Pulley Wheel 2 through the hole in an Angle Bracket bolted to the Strip and then into the boss of the Pulley. Bolt 1 on the Bush Wheel is fitted with locknuts.

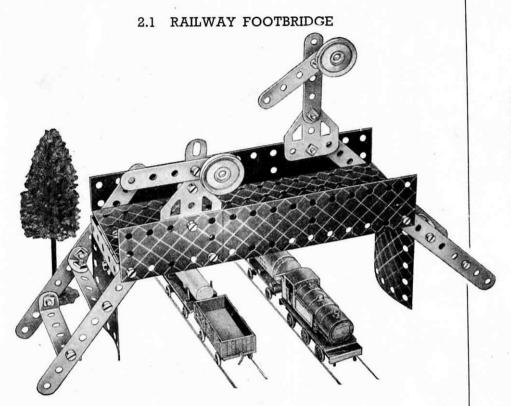
.. 126

The Bolts 1 are lock-nutted. The Rod 2 is secured to an Angle Bracket by means of two Spring Clips 3. The model is driven by a Magic Motor bolted to the 54" × 24" Flanged Plate. The pulley of the Motor is connected to a 1" fast Pulley on the crankshaft of the engine by a Driving Band.





meccanoindex.co.uk



Parts required

4	of	No.	2	1 2	of I	No.	22	1 1	of I	Vo	. 52	2	of t	No.	188
6	,,	,,	5	32	,,	,,	37	2	,,	"	111c	2	,,	,,	189
2	,,	,,	10	2	,,	,,	37a	2	,,	,,	126	1	,,	"	190
6			12	2			48a	2	,,	,,	126a	2	,,	,,	200

The span of the bridge is a 5½"×2½" Flanged Plate, extended by a 2½"×2½" Flexible Plate. Trunnions are bolted to each end of the span, and have 1 1 " radius Curved Plates fastened to them. The sides of the approach stairways are 5½" Strips. They are joined across by 2½" × ½" Double Angle Strips and 21 Strips fitted with Angle Brackets at each end.

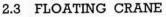
The signals are supported on Flat Trunnions bolted to the sides of the bridge. The smaller of the two signal posts is formed by two Flat Brackets, and the larger one is a 2½" Strip. The signal arms are 2½" Strips bolted to the posts in the second holes from one end. They are fitted at their shorter ends with 1" Pulleys, representing the spectacles, which are held in place by a" Bolts passed through the Strips and inserted in their bosses.

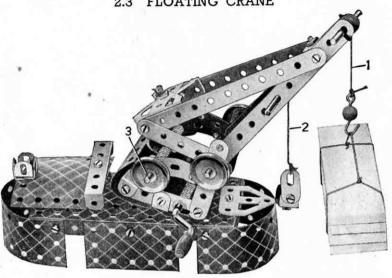
2.2 LAWN MOWER

The "cutter" is made by bolting an Angle Bracket at each end of a Reversed Angle Bracket and then sliding an Axle Rod through the three holes of the Brackets. The two Pulleys 2 are fixed to the Rod and pushed tightly against the " cutter" to make it revolve with the Rod as the wheels revolve. The wheels are 1" Pulleys fitted with Rubber Rings.

Parts required

4	of	No.	2	1 2	of P	10.	90a
4	,,	,,	5	1	,,	,,	125
4	,,	,,	10	2	29	,,	126
6	22	,,	12	2	,,	,,	155a
1	,,	,,	16	2	,,	,,	200
4	,,	,,	22				
25	,,	,,,	37	1			
4	,,	,,	38	1			
2	,,	,,	48a				



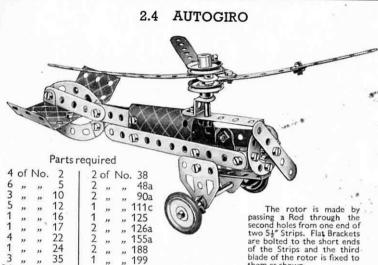


Parts required

4	of	No.	2	, 4	of I	No.	22	2 of	No	. 48a	110	fΝ	o. 126a
6	,,	,,	5	1	,,	,,	24	1 ,,	, ,,	52	1	,,	,, 176
3	,,		10	4	,,	,,	35	1 ,,	, ,,	57c	2	,,	" 188
8	,,	,,	12	29	,,	,,	37	2 ,,	, ,,		2_	,,	" 189
2	,,	,,	16	4		,,	37a	4 ,	, ,,		1	,,	" 199
2	,,		17	4	,,	,,	38	1 ,	, ,,	125	1	,,	" 200
1	,,	,,	19g	1	,,	,,,	40	2 ,	, ,,	126	1		

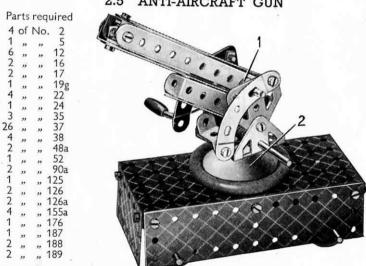
The jib consists of 5½" Strips and 2½" Strips. At its upper end these are joined across by Angle Brackets, and at its lower end by Trunnions. Each side of the lower part of the crane consists of 2½" Strips and small radius Curved Strips, the two sides being connected by 2½"×½" Double Angle Strips. The jib is pivoted to this structure by means of a 3½" Rod, which carries at each end a 1" Pulley. The Cord 1 fitted with a Loaded Hook, is passed over a 2" Rod held in place in the jib by means of Spring Clips, and is then wound round the Crank Handle.

The Cord 2 passes over a Rod held in place in the jib by an Anchoring Spring, and is then wound round the Rod that forms the pivot for the jib. A third Cord is tied to a Bolt fastened in the two Trunnions at the base of the jib, and is wound round Rod 3. This Cord controls the luffing motion of the crane. A 3" Bolt passes through the Flanged Plate and is held by a set screw in the boss of the Bush Wheel to which the jib is fastened. The Bush Wheel is bolted to the Double Angle Strip below the Rod 3. The roof of the cabin is bolted to a ½" Reversed Angle Bracket fixed to the Flanged Plate.



2.5 ANTI-AIRCRAFT GUN

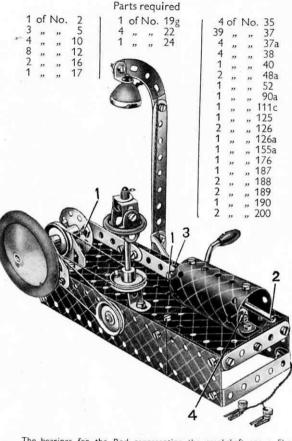
them as shown.



One end of a piece of Cord is fastened to the Crank Handle. It is wound round the Handle a few times and its other end is then fastened to the end of the gun. The two Trunnions are bolted to a Bush Wheel fixed on a 2" Rod that passes through the Road Wheel 2 and the Flanged Plate and is held in place by an Anchoring Spring. The Spring Clips at 1 space the gun barrel from the Flat Trunnions.

2.6 GAS ENGINE

meccanoindex.co.uk



The bearings for the Rod representing the crankshaft are a Flat Trunnion and a Trunnion. The crankshaft carries a Road Wheel and a 1" Pulley at one end, a second 1" Pulley between the bearings, and a Bush Wheel at its other end.

The connecting rod is fastened to the Bush Wheel and to an Angle Bracket by a lock-nutted Bolt 1. The Rod 2 is held in the Angle Bracket 3 by means of Spring Clips, one on each side. An Angle Bracket 4, carrying a Flat Bracket, is bolted inside the cylinder and a similar arrangement is fitted at the other end. These form bearings for the Rod 2.

The model is operated by the Crank Handle, which carries also a 1" Pulley connected to one of the 1" Pulleys on the crankshaft by a belt of Cord. A second Cord drives the governor, which is mounted on a 31 Rod journalled in the 5½" × 2½" Flanged Plate and a Reversed Angle Bracket.

The model is fitted with a Spotlight from the Meccano Lighting Set, current being supplied by a 4.5-volt pocket-lamp battery housed in the base of the model.

2.7 RACING CAR The radiator and the bonnet are fastened to the chassis by Flat Brackets 1. The driver (Aeroplane Constructor Part No. P100), fitted into the model to add realism, is not included in the Outfit but may be purchased separately. Parts required 1 of No. 19g 2 of No. 38

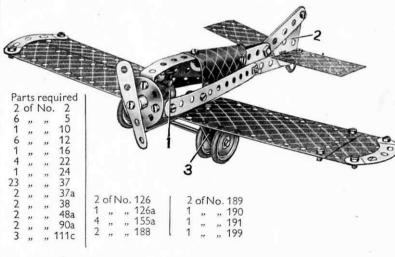
2.8 LOW WING MONOPLANE

2 " " 90a 1 " " 125 1 " " 126

4 " " 35 30 " 37 1 " 37a

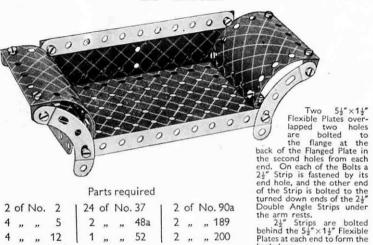
10 12

1 of No. 126a



The pilot 1 (Aeroplane Constructor Part No. P100) is not included in the Outfit, but may be bought separately. The fin 2 is a Flat Trunnion, and it is clamped between the two 2½" Strips. The bearings 3 for the axle of the landing wheels are Trunnions, bolted to the wings. The wings are attached to the fuselage by Angle Brackets.

2.9 SETTEE



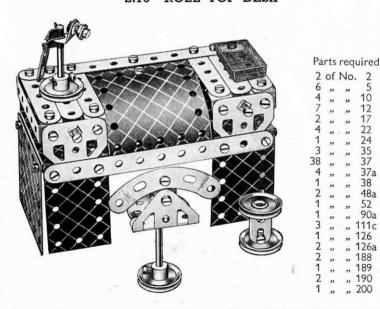
2.10 ROLL TOP DESK

back legs.

22

37 37a 38

111c



2.11 TRAVELLING CRANE

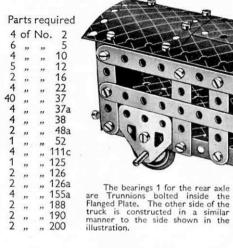


Parts required

							ui co i	-401	-						
4	of	No.	2	1	of	No	. 19g	3	of	No	. 38	2	of I	No	.111c
6	37	,,,	5	4	,,,	,,	22	1	,,	,,	40	2	,,	,,	126
4	,,	,,	10	1	,,	"	24	2	,,	,,	48a	2	,,	,,	126a
6	,,	"	12	4	,,	,,	35	1	,,	**	52	1	,,	,,	176
2	,,	,,,	16	38	,,	,,	37	1	,,	"	57c	1	,,	,,	187
2	"	"	17	2	,,	,,	37a	2	,,	,,	90a	2	,,	,,	188
				2 of	N	o. 1	89		1.	of 1	No. 20	0			

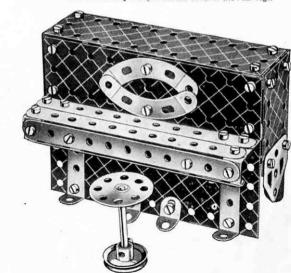
A 2" Rod is secured in the boss of the Bush Wheel 3. It then passes through the Road Wheel and through the centre of a $2\frac{1}{2}$ " $\times \frac{1}{2}$ " Double Angle Strip botted between the two Trunnions 1. A Washer and a Cord Anchoring Spring are pushed on to the Rod to hold it in position. The crane jib is attached to the Bush Wheel by the Angle Brackets 2.

2.12 CATTLE TRUCK



2.13 PIANO

A $5\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flanged Plate is used for the upper part of the back and to each end of this a $2\frac{1}{2}$ " Strip is bolted to form the rear legs.



		No.	uired 2
4	,,	,,	5
4	,,	,,	10
8	,,	,,	12
1	,,	,,	17
1	"	,,	22
1	,,	"	24
38	,,	,,	37 -
4	,,	,,	38
2	,,	,,	48a
1	,,	,,	52
2	,,	,,	90a
2	,,	,,	126
2	,,,	,,	126a
2	,,		188
2	,,		189
1			190

1 " " 191

1 " "190

Each of the side members of the chassis consists of two 5½" Strips overlapped, and they are joined across at the centre by two 2½" Strips, one of which is shown at 2, and a 2½" x½" Double Angle Strip. The 2½" Strip 2 and the Double Angle Strip are bolted to a Flat Trunnion, and between them is a second 2½" Strip, which is fastened at each end to the chassis by means of Angle Brackets.

The Plate 1 is fastened to an Angle Bracket that is bolted to Strip 2. The body is fixed to the chassis by a Double Angle Strip and an Angle Bracket.

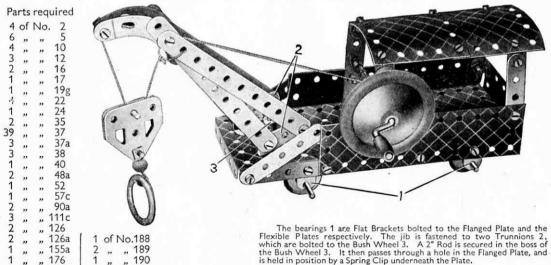
Parts required 4 of No. 2 4 "" 5 4 "" 10 8 "" 12 2 "" 16 4 "" 22 4 "" 35 40 "" 37 4 "" 38 2 "" 48a 1 "" 52 2 "" 90a 1 "" 126a 4 "" 155a 2 "" 188 2 "" 188 2 "" 189 2 "" 190 1 "" 191 1 "" 191

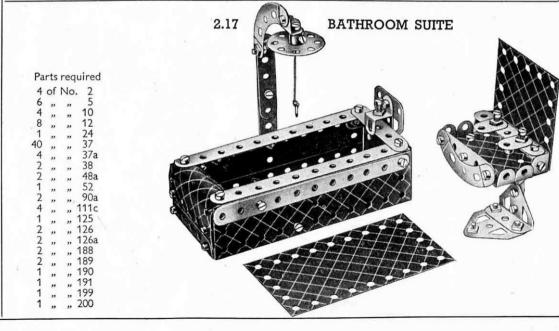
Parts required 4 of No. 2 6 , , , 5 1 , , , 12 2 , , , 16 2 , , , 17 4 , , , 22 1 , , , 24 4 , , , 35 34 , , , 37 1 , , , 40 2 , , , 48a

2.16 STEAMSHIP

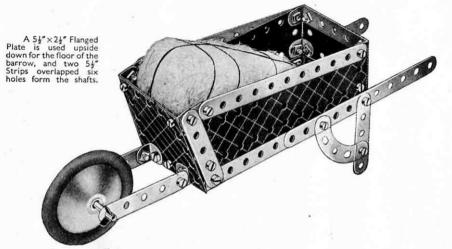
The deck of the model is a $5\frac{1}{2}$ " × $2\frac{1}{2}$ " Flanged Plate extended by a $2\frac{1}{2}$ " × $2\frac{1}{2}$ " Flexible Plate. A $2\frac{1}{2}$ " × $\frac{1}{2}$ " Double Angle Strip fitted with an Angle Bracket represents the bridge, and it is supported by two Trunnions bolted to the deck. The funnel consists of a Rod 1 fitted with two 1" fast Pulleys. The Rod passes through the hole in a Reversed Angle Bracket 2 and then through the Flanged Plate.

2.15 RAILWAY BREAKDOWN CRANE

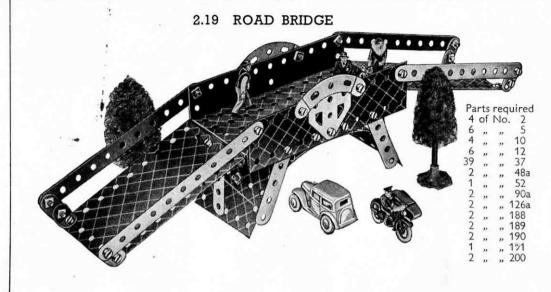








Parts required
4 of No. 2
6 " " 5
2 " " 10
4 " " 12
1 " " 17
2 " " 35
29 " " 37
2 " " 48a
1 " " 52
2 " " 90a
1 " " 187
1 " " 188
2 " " 189
1 " " 190

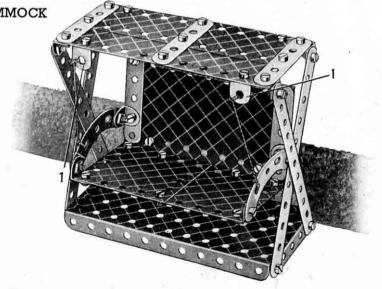


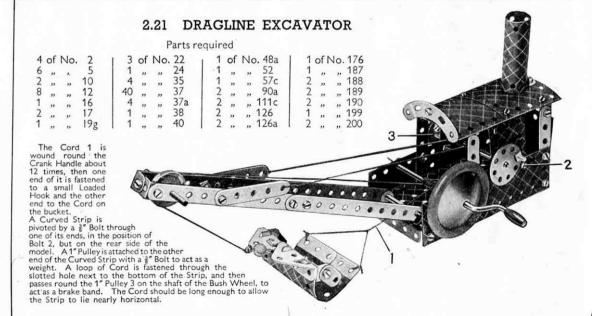


The Cord by which the back on the hammock is suspended is tied to the rear ends of the Double Angle Strips 1. The seat, which consists of two $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flexible Plates, is attached to the back of the hammock by two Trunnions.

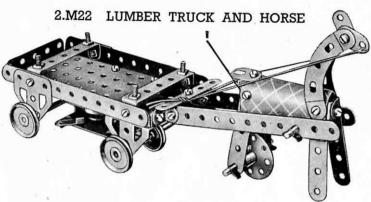
Parts required

4	of	No.	2	1	of	No	52
5	,,	,,	5	2	,,	,,	90
		,,	12	2	,,	,,	126
38	,,	,,	37	2	,,	,,	189
1	,,	,,	40	2	,,	,,	190
2	44		48a	1			191





The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The illustrations below show how the Meccano Magic Motor can be fitted without any difficulty to No. 2 Outfit models of various types. Fit the model you have just built with one of these wonderful Motors, and enjoy the fun of watching it work just like the real thing.

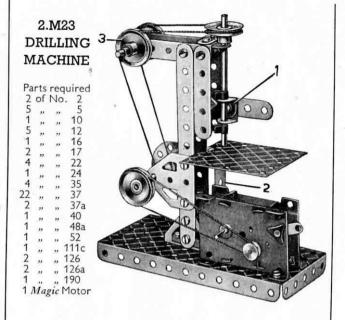


Parts required

4	OI	No.	2	1 4	01	No.	3/a
5	,,	,,	5	2	,,	,,	48a
3	,,	,,	10	1	,,	,,	52
5	,,	,,	12	2	,,	,,	90a
2	,,	,,	16	4	,,	,, '	111c
35224	,,	,,	17	2	,,	,, '	126
4	,,	,,	22	2	,,	,, '	126a
1	,,	,,	24	4	.,	,, '	155a
4	,,	,,	35	1		'	199
23	,,	,,	37	11	Ma	gic	1oto

A Magic Motor is mounted beneath the cart and the Driving Band is taken from the pulley on the Motor to a $\frac{1}{2}$ " fixed Pulley (supplied with the Motor) fastened on the $3\frac{1}{2}$ " Rod that forms the front axle.

The forelegs of the horse are held together by means of two Angle Brackets bolted in the positions shown. This construction is duplicated at 1 for the hind-legs. The forelegs of the horse are held clear of the ground by means of the reins.



The horizontal $2\frac{1}{2}$ " Strips at the top of the drill are joined together, and also to the vertical $2\frac{1}{2}$ " Strips, by means of Angle Brackets. The lower bearings 1 are two Angle Brackets bolted to a $2\frac{1}{2}$ " Strip, and the Rod forming the drill is journalled in these, and in a Flat Bracket at its upper end. A $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flexible Plate is supported by a Double Angle Strip 2, and represents the table.

The drive is taken from the Motor to the 1" Pulley on the lower shaft. A second Driving Band passes round the \frac{4}" fixed Pulley supplied with the Motor, round the two Pulleys at 3, and finally round the 1" Pulley fastened on the vertical drill shaft.

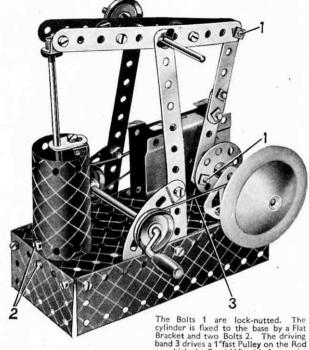
2.M25 STEAM WAGON Parts required

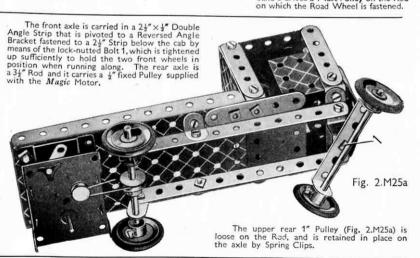
						011.00	
2 of	No	. 2	1 4	of	No	. 35	2 of No. 126
6 "	,,	5	31	,,	,,	37	4 " " 155a
2 "	,,	10	1	,,	,,	37a	1 " " 188
8 "	,,	12	4	,,	,,	38	1 " " 189
2 "	,,	16	2	,,	,,	48a	1 " " 190
1 "	"	17	1	,,	,,	52	1 " " 200
4 "	,,	22	1	,,	,,	90a	1 Magic Motor
1 "	,,	24	1	,,	"	125	

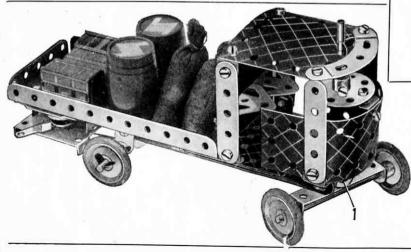




1 Magic Motor







MECCANO MOTORS FOR OPERATING MECCANO MODELS

If you want to obtain the fullest enjoyment from the Meccano hobby you should operate your models by means of one of the Meccano Motors described on this page. You push over the control lever of the clockwork or electric Motor and immediately your Crane,

Motor Car, Ship Coaler or Windmill commences to work in exactly the same manner as its prototype in real life.

Each Motor is pierced with the standard Meccano equidistant holes.

MECCANO CLOCKWORK MOTORS

These are the finest clockwork motors obtainable for model driving. They have exceptional power and length of run and their gears are cut with such precision as to make them perfectly smooth and steady in operation.

Meccano Clockwork Motors are especially suitable for small models built with a limited range of parts. They are extremely simple to operate and have the advantage of being self contained.



No. 1 Clockwork Motor

cient Motor is fitted with a

powerful spring that gives a long

and steady run, and is exception-

ally smooth in action. The Motor

is provided with a conveniently-

placed brake lever by means of

which it can be started and

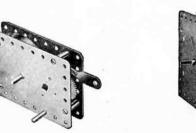
stopped. The Motor is of the

non-reversing type.

This strongly built and effi-

THE MECCANO MAGIC MOTOR

The Meccano Magic Motor is well designed and strongly constructed, and is fitted with a powerful spring giving a long and steady run. It is non-reversing. Each Magic Motor is supplied with a separate ½" fast Pulley and three pairs of Driving Bands of different lengths. It is capable of driving all light models built with the smaller Outfits.



No. 2 Clockwork Motor.

No. la Clockwork Motor

This Motor is more powerful than the No. 1 Motor and is fitted with reversing motion. It has brake and reverse levers.

No. 2 Clockwork Motor

This is a Motor of super quality, Brake and reverse levers enable it to be started, stopped or reversed, as required.

MECCANO ELECTRIC MOTORS

The four Meccano Electric Motors shown here have been designed specially to provide smooth-running power units for the operation of Meccano models. The 6-volt Motors may be operated through a Meccano Transformer direct from the mains, providing that the supply is alternating current, or from a 6-volt accumulator. The 20-volt Motors are operated through a 20-volt Transformer from alternating current supply mains.



No. El Electric Motor (6 volt)

This is a highly efficient Motor (nonreversing) that will give excellent service. It can be operated through a 9-volt Meccano Transformer from the mains, providing that the supply is alternating current, or from a 6-volt accumulator.



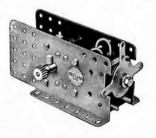
No. E6 Electric Motor (6 volt)

This fine Motor is fitted with reversing motion and provided with stopping and starting controls. It can be operated through a 9-volt Meccano Transformer from the mains, providing that the supply is alternating current, or from a 6-volt accumulator.



No. E120 Electric Motor (20 volt)

The E120 Electric Motor is a very reliable and smooth-running power unit. It is operated through a Meccano 20-volt Transformer from alternating current supply mains. Non-reversing.



No. E20b Electric Motor (20 volt)

This 20-volt Electric Motor is an extremely efficient power unit, fitted with reversing motion and provided with stopping and starting controls. It is operated through a Meccano 20-volt Transformer from alternating current supply mains.

There are six Transformers in the series, as described below, all of which are available for the following A.C. supplies: -100/-110 volts, 50 cycles; 200/225 volts, 50 cycles; 225/250 volts, 50 cycles. Any of the Transformers can be specially wound for supplies other than these at a small extra charge. When ordering a Transformer the voltage and frequency of the supply must always be stated.

MECCANO TRANSFORMERS



No. T20A Transformer



No. T6 Transformer

FOR 20-volt ELECTRIC MOTORS

No. T20A TRANSFORMER (Output 35 VA at 20/3½ volts). Has two separate circuits at 20 volts, one of which is controlled by a 5-stud speed regulator, and a third circuit at 3½ volts for lighting up to 14 lamps.

No. T20 TRANSFORMER (Output 20 VA at 20 volts). Has one 20-volt circuit controlled by a 5-stud speed regulator.

No. T20M TRANSFORMER (Output 20 VA at 20 volts). This Transformer is provided with one 20-volt circuit, but is not fitted with speed regulator.

FOR 6-volt ELECTRIC MOTORS

No. T6A TRANSFORMER (Output 40 VA at 9/3½ volts). Has two separate circuits at 9 volts, one of which is controlled by a 5-stud speed regulator, and a third circuit at 3½ volts for lighting up to 18 lamps.

No. T6 TRANSFORMER (Output 25 VA at 9 volts), Has one 9-volt circuit and is fitted with a 5-stud speed regulator.

No. T6M TRANSFORMER (Output 25 VA at 9 volts). Has one 9-volt circuit, but is not fitted with a speed regulator.

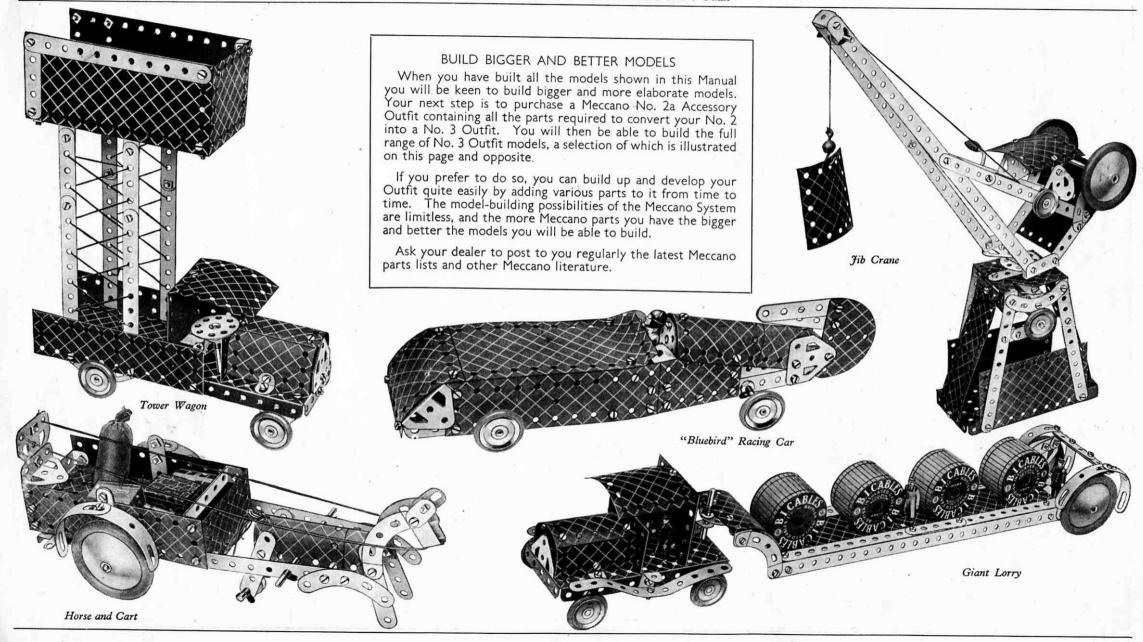
Resistance Controllers

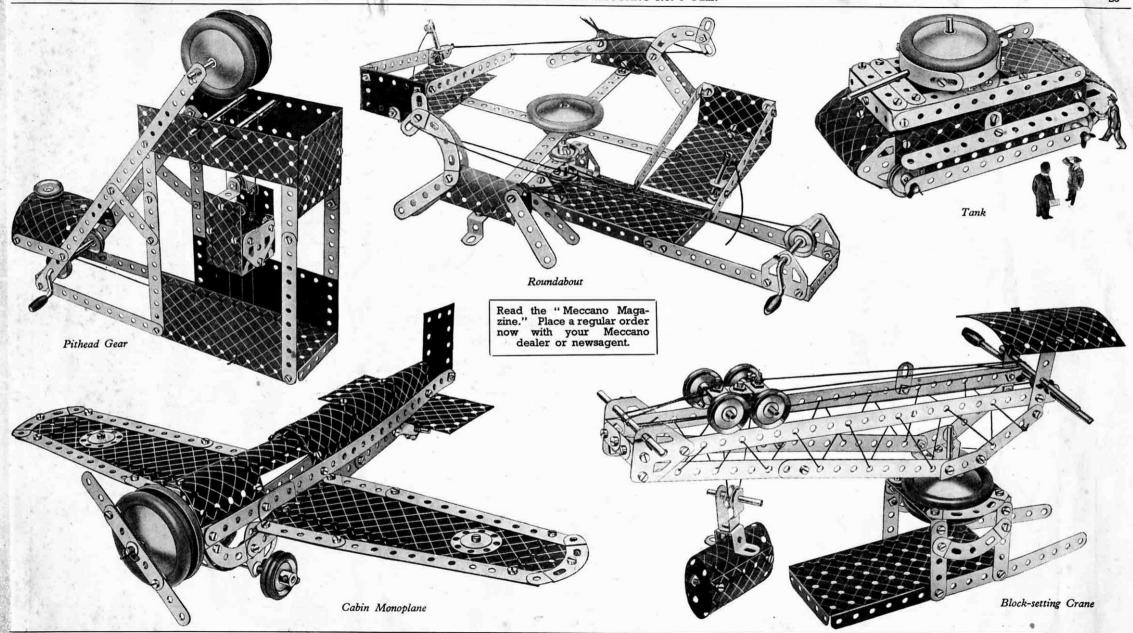
By means of these Controllers the speed of Meccano 6-volt and 20-volt Motors can be regulated exactly as desired

trom a 6-voit accumulator.

supply mains. it to be started, stopped rsed, as required.

Ask your dealer for the latest Meccano Price List





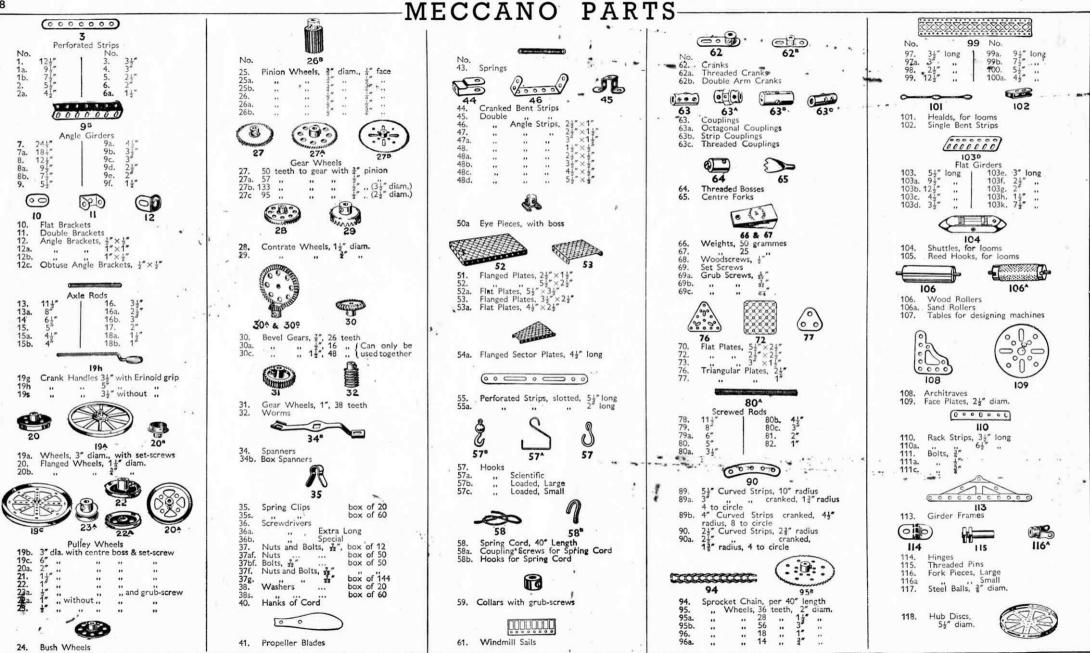
meccanoindex.co.uk

10	いるのようなよれることはなるようなとのなっているとうなっています。そのなっているとしているとしてあっているとしているとしているというというないというないというないというというというというというというというというというというというというという
9a	
0	a + u + u +
- 8a	
ω	4 14-
Za	u u =
7	
- 6a	
9	
Sa	
ш	
4a	111111111111111111111111111111111111111
4	
3a	111111111111111111111111111111111111111
6	
2a	111111111111111111111111111111111111111
03	
la	111111111111111111111111111111111111111
-	!!!!!!!!!!!!!!!!!!####################
0	111111111111111111111111111111111111111
	- 111111111111111111111111111111111111
noi	
scripi	7 10 20 20 20 20 20 20 20 20 20 20 20 20 20
Dei	S. S
2	Volveel 12 2 2 2 2 2 2 3 3 3 2 2 2 2 2 3 3 3 3
	Sprocket Single Barde Single Barde Single Barde Single Barde Flat Gird Flat Corp Flat Gird Flat Gird Flat Gird Flat Gird Flat Flat Flat Flat Fla
Yo.	88 2-2-2-6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
-	222222222222222

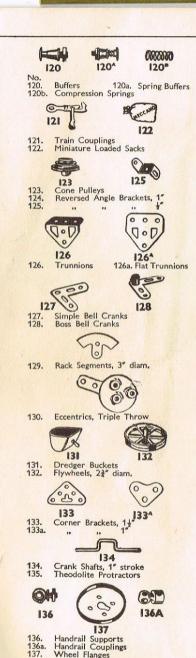
NEW MECCANO PARTS FOR OLD

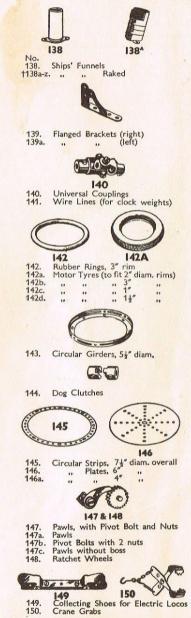
Every Meccano boy should know of the wonderful Meccano Part Exchange Scheme, in order to take advantage of it. Meccano Ltd. undertake to exchange any damaged Meccano parts for similar new parts at half the current list price, no matter how old or damaged the parts are. Just send them to the Service Department, Meccano Limited, Binns Road, Liverpool 13, together with a remittance covering half the cost of the new parts. The remittance should include postage on the new parts and this will be the same as that you pay on the parcel of old parts you send in. It is very important that you enclose your own name and address written in plain characters.

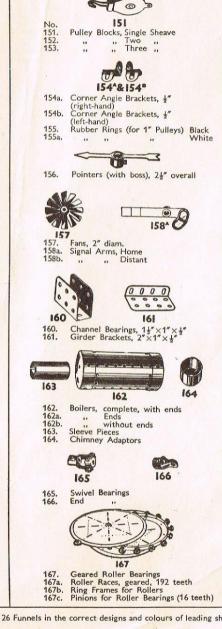
If you prefer to do so, you can effect the exchange through your own dealer.

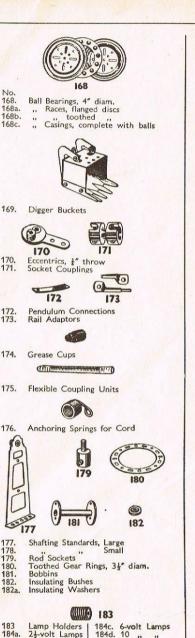


MECCANO PARTS









187

(Heavy)

Steering Wheels, 13" diam. Driving Bands, 3" diam. (Light)

197

186. 186a.

186b.

186c.

186d.

186e.

186e. 187. Road Wheels

192

