



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 iust 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 it 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 flashlamp 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

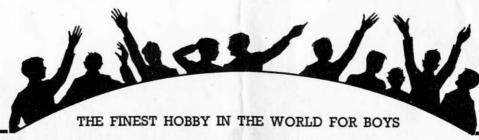
Every owner of a Meccano Outfit should join the Meccano Guild. This is a world-wide organisation, started at the request of Meccano boys. Its primary object is to bring boys together and to make them feel that they are all members of a great brotherhood, each trying to help others to get the very best 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.

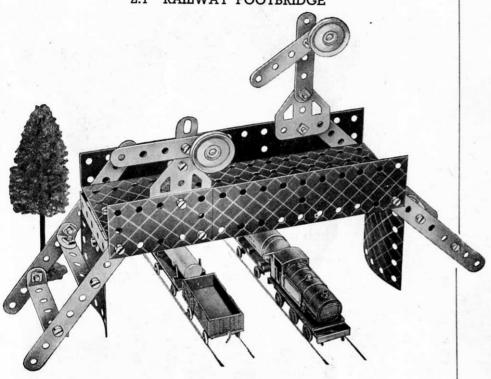
Recruiting Medallions are awarded to members who are successful in securing recruits for the Guild, and good work on behalf of Meccano clubs, or of the Guild generally, is recognised by the presentation of special Merit Medallions. Full particulars of both these awards will be sent post free on request.

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.



2.1 RAILWAY FOOTBRIDGE



Parts required

4	of	No	. 2	1 2	of	No	. 22	1 1	of	No. 52	2	of N	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 $5\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flanged Plate, extended by a $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flexible Plate. Trunnions are bolted to each end of the span, and have $1\frac{1}{2}$ " radius Curved Plates fastened to them. The sides of the approach stairways are $5\frac{1}{2}$ " Strips. They are joined across by $2\frac{1}{2}$ " \times 2" Double Angle Strips and $2\frac{1}{2}$ " Strips fitted with Angle Brackets at each end.

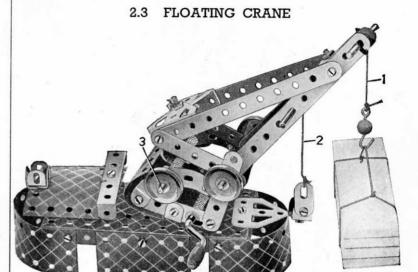
The signals are supported on Flat Trunnions bolted to the sides of the bridge. The smaller of the two signal posts is formed by two Flat Brackets, and the larger one is a 2½" Strip. The signal arms are 2½" Strips bolted to the posts in the second holes from one end. They are fitted at their shorter ends with 1" Pulleys, representing the spectacles, which are held in place by 3" 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 1 and then sliding an Axle Rod through the free holes of the Brackets. The two Pulleys 2 are fixed to the Rod and pushed tightly against the "cutter" to make it rotate with the Rod as the wheels revolve. The wheels are 1" Pulleys fitted with Rubber Rings.

Parts required

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

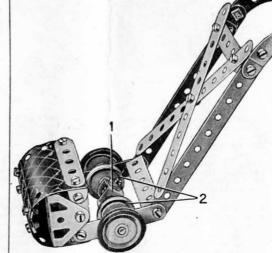


Parts required

4	of	No.	2	1 4	of	No.	. 22	1 2	of	No	o. 48a	1 1	of N	Vo.	126a
6	,,	,,	5	1	,,	,,	24	1	,,	,,	52	1			176
3	,,	,,	10	4	,,	,,	35	1	,,	,,	57c	2			188
8	,,	"	12	29	,,	,,	37	2	,,	,,	90a	2			189
2	,,	,,	16	3	,,	,,	37a	4	,,	,,	111c	1		"	199
2	,,	,,	17	4	,,	,,	38	1	,,	,,	125	1	,,		200
1	,,	,,	19g	1	,,	,,	40	2	,,	,,	126		.,	"	

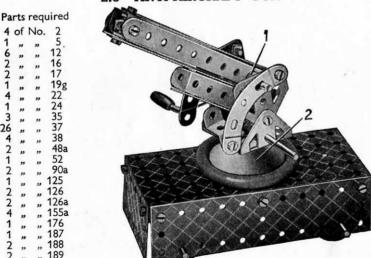
The jib consists of 5½" Strips and 2½" Strips. At its upper end these are joined across by Angle Brackets, and at its lower end by Trunnions. Each side of the lower part of the crane consists of 2½" Strips and small radius Curved Strips, the two sides being connected by 2½" x½" Double Angle Strips The 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.



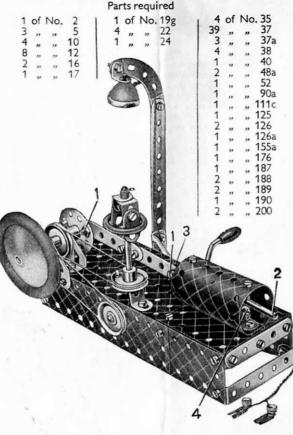
Parts required 4 of No. 2 | 2 of No. 38 6 " 5 | 2 " 48a 4 " 10 | 2 " 90a 6 " 12 | 1 " 111c 1 " 16 | 1 " 125 1 " 17 | 2 " 126a 4 " 22 | 2 " 155a 1 " 24 | 2 " 188 3 " 35 | 1 " 199 The rotor is made by passing a Rod through the second holes from one end of two 5½" Strips. Flat Brackets are bolted to the short ends of the Strips and the third blade of the rotor is fixed to them as shown.

2.5 ANTI-AIRCRAFT GUN



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



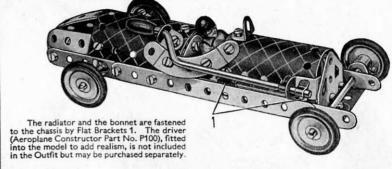
The bearings for the Rod representing the crankshaft are a Flat Trunnion and a Trunnion. The crankshaft carries a Road Wheel and a 1" Pulley at one end, a second 1" Pulley between the bearings, and a Bush Wheel at its other end.

The connecting rod is fastened to the Bush Wheel and to an Angle Bracket 3 by lock-nutted Bolts 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 $3\frac{1}{2}$ ° Rod journalled in the $5\frac{1}{2} \times 2\frac{1}{2}$ ° 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.

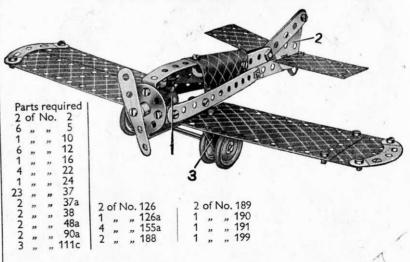
2.7 RACING CAR



Parts required

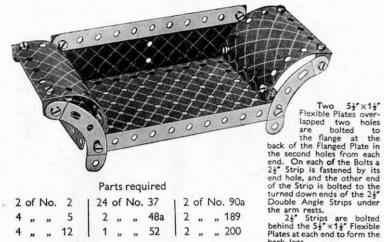
4 of No. 2	1 of No. 19g	2 of No. 38	1 of No. 126a
5 5	4 22	1 48a	1 4 " "155a
4 " " 10	4 " " 35	2 " " 90a	1 " " 199
8 " " 12	30 ,, 37	1 " " 125	1 " " 200
2 " " 16	1 " " 37a	1 " " 126	

2.8 LOW WING MONOPLANE

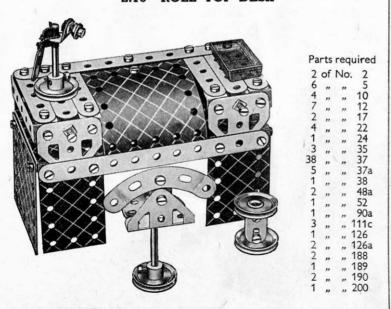


The pilot 1 (Aeropiane Constructor Part No. P100) is not included in the Outfit, but may be bought separately. The fin 2 is a Flat Trunnion, and it is clamped between the two $2\frac{1}{2}$ " Strips. The bearings 3 for the axle of the landing wheels are Trunnions, bolted to the wings. The wings are attached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

2.9 SETTEE



2.10 ROLL TOP DESK



2.11 TRAVELLING CRANE

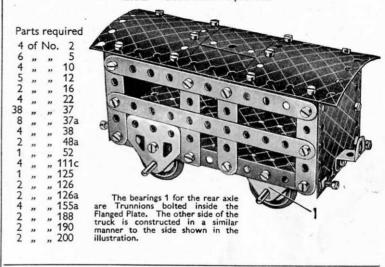


Parts required

							41 13 1	cqui	100						
4	of	No	. 2	1 1	of	No.	19g	1 3	of	No.	38	1 2	of N	No.	111c
6	,,	,,	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 1	,,	,,	57c	1	,,	,,	187
2	,,	,,	17	2	,,	,,	37a	1 2			90a	2	,,		188
				2 of	N	o. 18	9		1	of	No. 20	0		-	

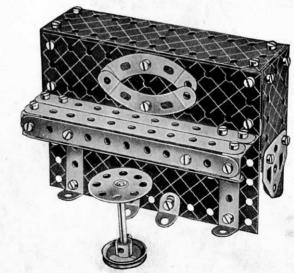
A 2" Rod is secured in the boss of the Bush Wheel 3. It then passes through the Road Wheel and through the centre of a $2\frac{t}{4}'\times\frac{t}{4}''$ Double Angle Strip bolted between the two Trunnions 1. A Washer and a Cord Anchoring Spring are pushed on to the Rod, to hold it in position. The crane 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.





Parts required 4 of No. 2

1 ,, ,, 191

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" x¾" Double Angle Strip. The 2½" Strip 2 and the Double Angle Strip, which is fastened at each end to the chassis by

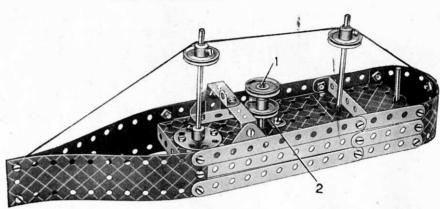
means of Angle Brackets.

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 9 2 " " 189 2 " " 189 2 " " 190 1 " " 191 1 " " 199

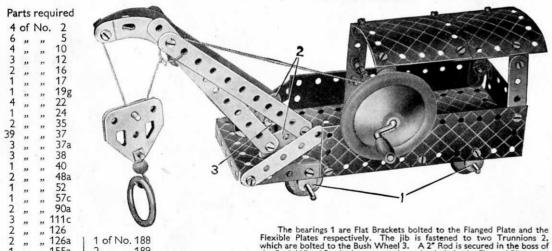
2.16 STEAMSHIP

Pa	rts	req	uired
4	of	No.	2
6	,,	,,	5
1	,,	,,	12
2	,,	,,	16
2	,,	,,	17
4	,,	,,	22
1	,,	"	24
4	,,	,,	35
34	,,	,,	37
1	,,	,,	40
2	,,	,,,	48a
1	,,	,,	52
1	,,	,,	125
2			126

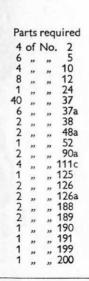


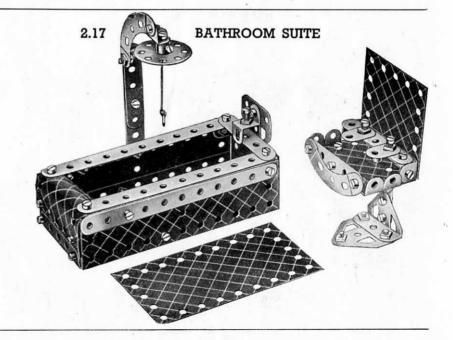
The deck of the model is a $5\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flanged Plate extended by a $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flexible Plate. A $2\frac{1}{2}$ " $\times \frac{1}{2}$ " Double Angle Strip fitted with an Angle Bracket represents the bridge, and it is supported by two Trunnions 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

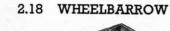
2.15 RAILWAY BREAKDOWN CRANE

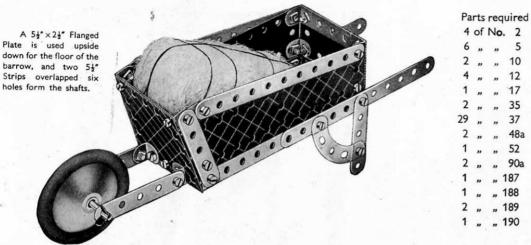


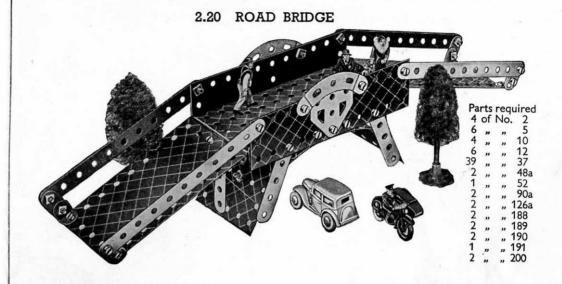
the Bush Wheel 3. It then passes through a hole in the Flanged Plate, and is held in position by a Spring Clip underneath the Plate.









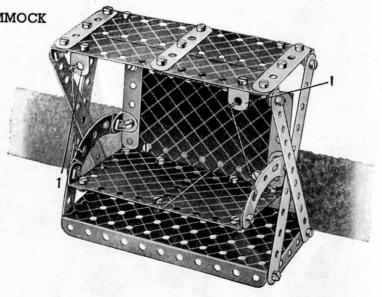


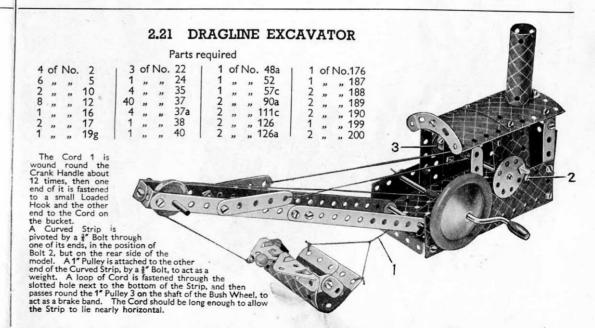


The Cord by which the back of the hammock is suspended is tied to the rear ends of the Double Angle Strips 1. The seat, which consists of two $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flexible Plates, is attached to the back of the hammock by two Trunnions.

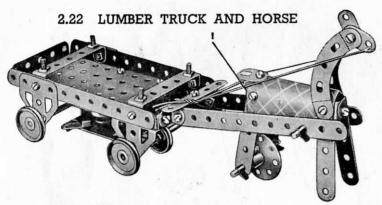
Parts required

4	of	Nó.	2	1 1	of	No	. 52
5	,,,	,,	5	. 2	"	,,	90a
8	,,,	,,	12	2	"	,,	126
38	,,	,,	37	2	,,	,,	189
1	,,	,,	40	2	,,	,,	190
2	,,	,,	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.

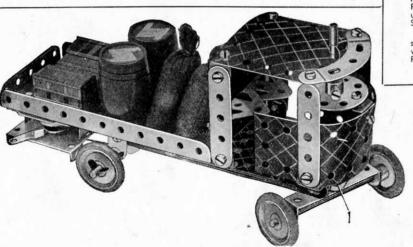


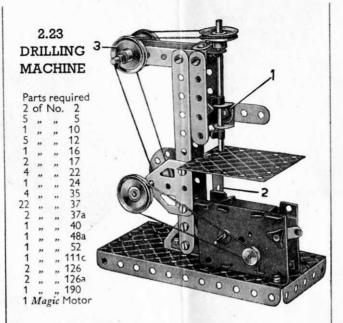
Parts required

of	No.	2	14	of	No.	37a
,,	,,	5	2	,,	,,,	48a
,,	,,	10	1	,,	33	52
,,	,,	12	2	,,	,,,	90a
	,,	16	4	,,	,,	111c
		17	2	,,	,,	126
		22	2	,,	,,	126a
		24	4	,,	,,	155a
		35	1	,,	,,	199
		37	1	Ma	gic	Moto
	of """"""""""""""""""""""""""""""""""""	of No.	" " 5 " " 10 " " 12 " " 16 " " 17 " " 22 " " 24 " " 35	" " 5 2 2 1 10 1 1 2 2 2 2 2 2 2 4 4 3 3 5 1 1	" " 5 2 " " 10 1 " " 12 2 " " 16 4 " " 17 2 " " 22 2 " " 24 4 " " 35 1 "	" " 5 2 " " " 10 1 " " " " 12 2 " " " 16 4 " " " 17 2 " " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " 17 2 " " " " " 17 2 " " " " " 17 2 " " " " " 17 2 " " " " " 17 2 " " " " " 17 2 " " " " " 17 2 " " " " " 17 2 " " " " " " 17 2 " " " " " " 17 2 " " " " " " " 17 2 " " " " " " " " " " " " " " " " " "

A Magic Motor is mounted beneath the cart and the Driving Band is taken from the pulley on the Motor to a $\frac{1}{2}$ " fast 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.

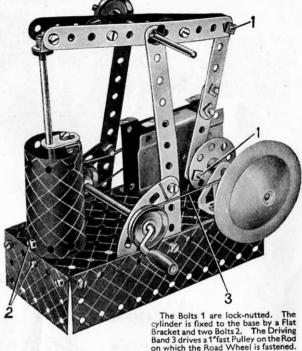
The drive is taken from the Motor to the 1" Pulley on the lower shaft. A second Driving Band passes round the ½" fast Pulley supplied with the Motor, round the two Pulleys at 3, and finally round the 1" Pulley fastened on the vertical drill shaft.

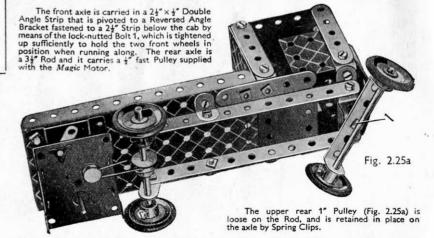
2.25 STEAM WAGON

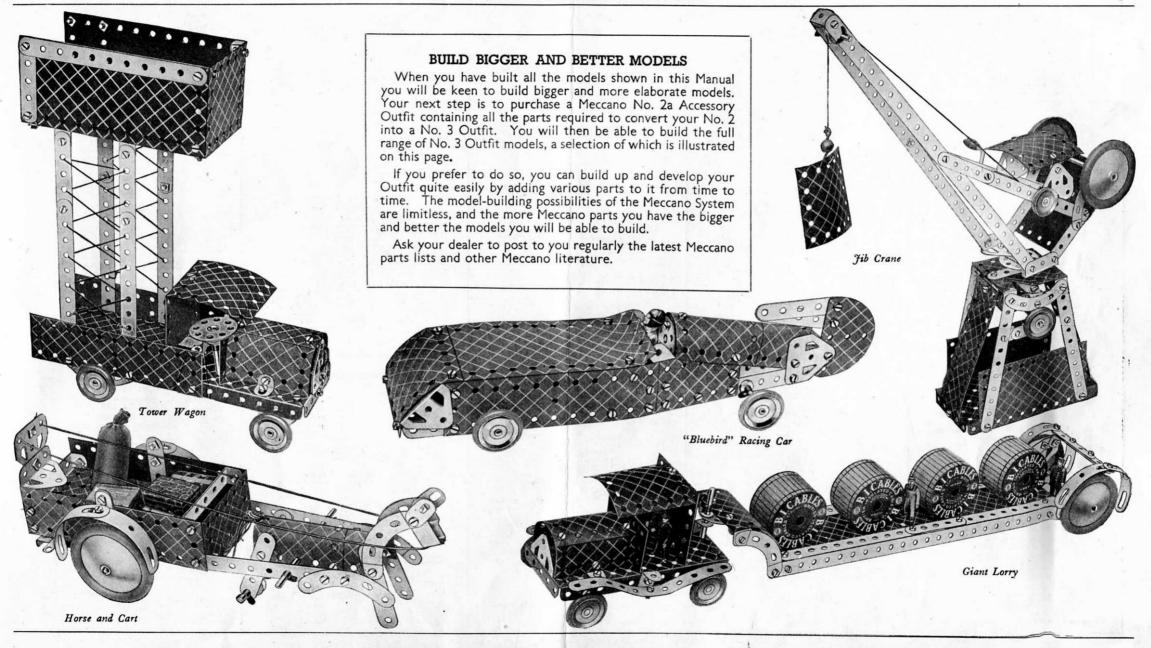
				Pa	rts	rec	uired				
2	of	No.	2	4	of	No	. 35	2	of	No.	126
6	,,	,,	5	31	,,	,,	37	4	,,	,,	155a
2	,,	,,	10	1	,,	,,	37a	1	,,	,,	188
8	,,	,,	12	4	,,	,,	38	_ 1	,,	,,	189
2	,,	**	16	2	,,	,,	48a	1	,,	,,	190
1	,,	,,	17	1	,,	,,	52	1	,,	,,	200
4	,,	,,	22	1	,,	,,	90a	1	Ma	gic	Motor
1	,,	,,	24	1	,,	,,	125				

2.24 BEAM ENGINE

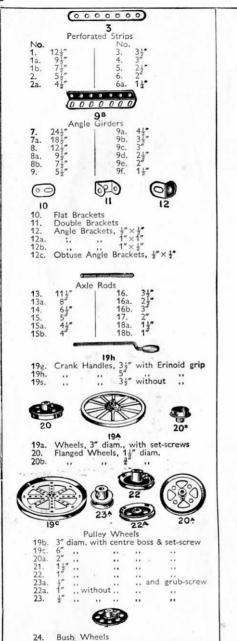
t of	rec No	
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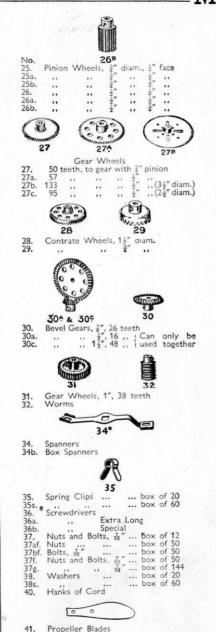


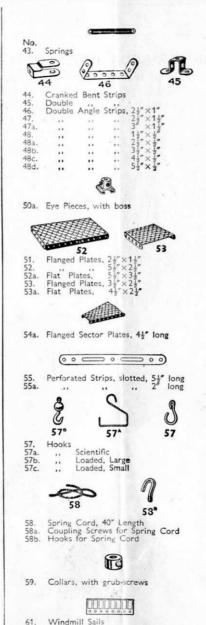


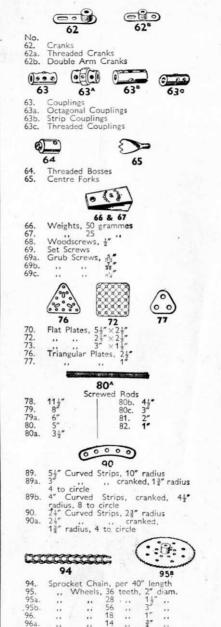


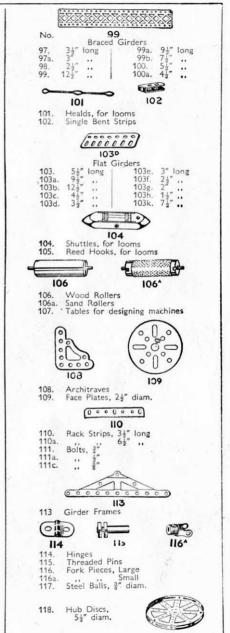
MECCANO PARTS



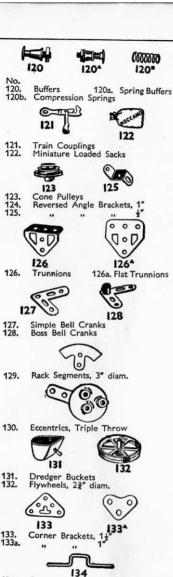








MECCANO PARTS



Crank Shafts, 1" stroke

Theodolite Protractors

Handrail Supports

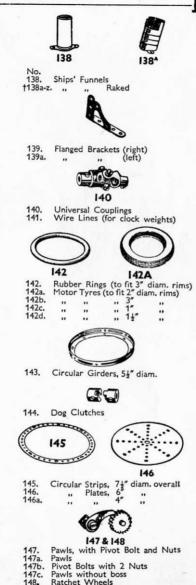
Handrail Couplings

Wheel Flanges

136a. 137.



136A

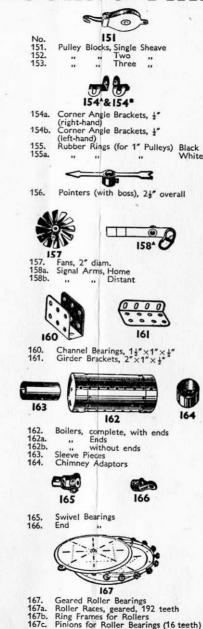


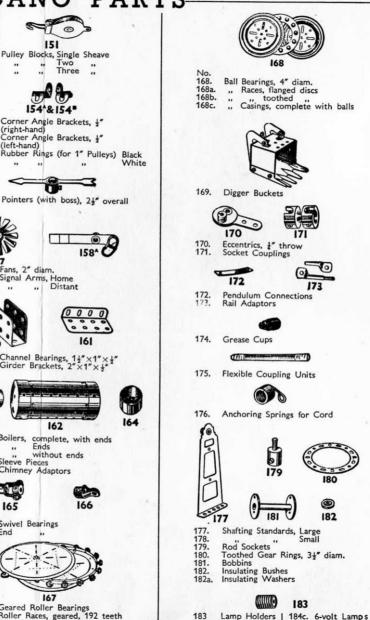
150

Collecting Shoes for Electric Locos

150.

Crane Grabs





184d. 10 184e. 20

**

184a. 2½-volt Lamps 184b. 3½



