

MECCANO



(TRADE MARKS 296321, 12633, 10274, 55/13476, 884/25, 2913)

INSTRUCTIONS

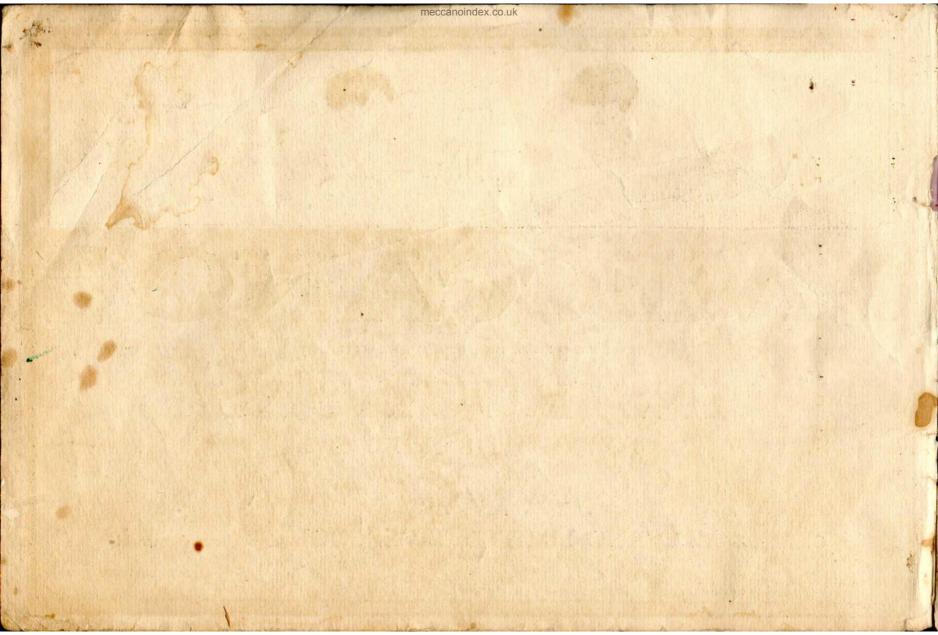
FOR OUTFITS Nos. 0 to 3

1/6

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No. 27A

AUSTRALIAN EDITION



A TALK WITH NEW MECCANO BOYS



MECCANO OUTFITS contain accurately-made and highly-finished engineering parts with which any known mechanical movement may be reproduced in model form. With Meccano you can accomplish more than with any other constructional toy, for no other system has its possibilities. No study is needed to enable you to build models with Meccano—the genius is in the Meccano parts.

Recently The New Meccano has been introduced, with many parts richly enamelled in colour. With these coloured parts you can make your models even more realistic and at the same time satisfy your artistic taste. The parts can be used for hundreds of models and to all they bring a delightful charm, enhancing the appearance of even the simplest models.

A complete list of Meccano parts, both coloured and nickelled, is to be found on pages 3 and 4.

You never come to the end of Meccano fun. There is always more ahead—always some new, ingenious and interesting model to build. Each one, as it is completed, "tuned up," and set going, brings a joy and satisfaction beyond anything that you have ever previously experienced.

As you progress in Meccano you obtain a greater variety of parts, Gear-Wheels, Pulley-Wheels, Worm-Wheels, Couplings, Cranks, and all manner of perfectly-made real engineering parts. These enable you to construct complicated mechanical movements without any difficulty. The most wonderful feature of Meccano is that it is real engineering; it is fascinating and delightful and yet so simple that even an inexperienced boy may join in the fun without first having to study or learn anything.

HOW TO BUILD WITH MECCANO

FOLLOW the instructions closely at first, and build the models just as you see them. Then take each model and try to improve our design. Every model can be made in a dozen different ways. Screw up all the nuts and bolts firmly and you will find that you can play with the trucks, cranes, signals, etc., and obtain many hours of fun.

For convenience Meccano parts are sold in nine Outfits of varying size, numbered 00 to 7. The quality and finish of the parts are of the same high standard throughout the series, but as the Outfits increase in size they contain larger quantities and greater varieties of parts. Each Outfit may be converted into the one next higher by the purchase of an Accessory Outfit (see page 62). Thus, if a No. 2 is the first Outfit bought, it may be converted into a No. 3 by adding to it a No. 2 A. A No. 3 A would then convert it into a No. 4 and so on up to No. 7. In this way, no matter with what Outfit you commence, you may build it up by degrees to a No. 7.

The separate Meccano parts may be bought at any time in any quantity (see price list on pages 3 and 4).

"MECCANO STANDARD MECHANISMS"

THERE are a number of Meccano movements that have to a certain extent become standardised; that is to say, they may be applied to more than one model—in most cases without any alteration, but in some few instances with only slight alterations to the original movement. These have been collected and classified, and may now be obtained in the form of a new Manual entitled "Meccano Standard Mechanisms." This publication consists of 48 pages, $9\frac{3}{4} \times 6\frac{1}{4}$ ", and contains over 140 illustrations in half-tone. The various devices have been arranged so that immediate reference may be made to any particular motion that it is desired to incorporate in a model. No keen Meccano boy who wishes to embody correct engineering principles in his new structures will consider his equipment complete without a copy of "Meccano Standard Mechanisms."

It will be observed that "Standard Mechanisms" are frequently mentioned in the instructions for building the larger models contained in this book. The "S.M." Manual is included in Outfits 4A, 5, 6 and 7, and on referring to the details indicated the reader should have no difficulty whatever in understanding the construction of even the most intricate models. Although the Manual is not used in the smaller sets, all owners of Meccano Outfits should find it invaluable in assisting them in their model-building.





MECCANO GUILD
MEMBER'S CERTIFICATE.

THE MECCANO GUILD

THE MECCANO GUILD is an organisation for boys, started at the request of boys and conducted as far as possible by boys. The Guild is a great fraternal organisation of which all Meccano boys should become members, for its primary object is to bring them together. The Guild makes these boys feel that they are all members of a great brotherhood, each trying to help the other to get the very best out of life and it cannot fail to have a profound effect for good on the lives of its members.

MECCANO CLUBS

M ECCANO CLUBS are founded and established under the guidance of the Guild Secretary at Headquarters and at the present time there are active Clubs in over one hundred towns and villages in the United Kingdom and in many countries Overseas. Each Club has its Leader, Secretary, Treasurer, and other officials all of whom, with the exception of the Leader, are boys. Write for information how to form a club, if there is no club near you.

Special awards are given to Club members for good work in connection with their Club and medallions are awarded in connection with the Recruiting Campaign, full particulars of which will be sent on request.



SPECIAL MERIT MEDALLIONS.



RECRUITING MEDALLION.

THE LIFE OF A MECCANO BOY

A MECCANO boy is the happiest boy in the world. He builds models from the Meccano Instruction books; invents new models; joins the Meccano Guild and a Meccano Club and by wearing the Guild badge proclaims himself to be the friend of millions of other Meccano boys all over the world. He reads the Meccano Magazine regularly and corresponds with his friend the Editor when he feels like it. Time never hangs heavily on his hands and he is too busy and happy to grumble.

The Meccano Magazine is the Meccano boy's newspaper. It tells him of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains interesting articles on engineering and electrical subjects, and deals with many other topics of interest to boys, including suggestions from Meccano boys for new Meccano parts and correspondence columns in which the Editor replies to his readers' enquiries. Write to the Editor, Meccano Magazine, Binns Road, Liverpool, enclosing 6d. in stamps. He will then forward a specimen copy, post free. The Meccano Magazine is sent regularly to subscribers at the rate of 4/- for six issues or 8/- for twelve issues, post free.



STRIPS, GIRDERS AND BRACKETS 9B WHEELS, GEARS, ETC. 19°

Particulars and Prices of Meccano Parts

	Donforet - 3	Ctrin	191"	lone			doz.		d. 6	No.	Gear Wheels, 1", 38 teeth each
	Perforated	strips,	91"	Toni			LIOZ.	1	3	31.	Geal Wheels, I , ou los
	"	**		**	• • •	***	**	17	0	32.	
	"	"	71	"		***	27	1	9	34.	Spanners »
	,,	"	51"	**			**	0		34a.	" Combined "
	,,	,,	41"	**			**	0	8	34b.	Box Spanners
	,,,	**	31"	,,			**	0	6	35.	Spring Clips per box (doz.)
	**		3"	**			**	0	5	36.	Screw Drivers each
		,,	21"	,,			**	0	5	36a.	" Extra Long "
	,,	"	2"				**	0	5	37.	Nuts and Bolts, 7/32" per box (doz.)
	,,		14"	**				0	5	37a.	Nuts " "
٠,	Angle Girde	s 241"	long	"	•••		each	1	0	37b.	Bolts, 7/32" " "
		181"						0	9	38.	Washers "
		121"	,,				doz.	2	9	40.	Hanks of Cord each
	,, ,,	91"						2	0	*41.	Propeller Blades per pair
١.	" "	71."	"				"	ī	9	43.	Springs each
	. 22	51."	"				"	i	6		Cranked Bent Strips "
	n n		23		•••	•••	**	î	3	44.	Double Bent Strips
ι.	27 27	41"	**		• • •	•••	"	1	0	45.	Double Angle Strips, 2½"×1" ½ doz.
)	" "	31"	**			***	**	1	0	46.	
7	"	3"	**			•••	**	1	0	47.	" " " " 11"
1.	27 21	21/2 21/2	- 33			•••	**	1		47a.	
٠.	,,		33			***	**	0	9	48.	" " " 1\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	,, ,,	11"	"				**	0	9	48a.	
	Flat Brack	ets			***		**	0	3	48b.	" " " 3½"×½" … "
	Double Bra	ckets					each	0	11	48c.	4½"×½" "
	Angle Brac	kets. &	"×1"	*			doz.	0	9	48d.	, 5½"×½" ,,
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	i	"×1"	•			cach	0	11	50.	Eye Pieces each
).		1	" × 1"	*			**	0	1 1	*52.	Perforated Flanged Plates, 51" × 21" "
	Axle Rods,	111"	ong	Section 1			"	0	5		Flet Dietes 51" v 31"
١.	Axie Rous,	8"	One .	•••			**	0	5	*52a.	Flat Flates, 3g Aug "
٠.		61"					"	0	3	*53.	Perforated Flanged Plates, 3½"×2½" "
	27	E#					**	ŏ	3	*53a.	Flat Plates, 4½"×2½" "
1.	" "	41"	0.33	• • • •			27	o	2	*54.	Perforated Flanged Sector Plates "
	" "	31 "	**	• • •		•••	**	0	2	55.	Perforated Strips, slotted, 51" long "
	" "	01"		• • •	•••		55	0	2	55a.	remorated strips, stotted, og 1048 "
a.	" "	2½" 3""	**	• • •	• • •		>>	o	2	56.	Instruction Manuals, Complete "
b.	,, ,,	0"	**			***	**	Ö	2		No 0.3
	" "	2	***	• • •	• • •		**	0	2	56a.	" No 0
a.	,, ,,	11"	"				**			56b.	
b.	,, ,,		"				"	0	11	57.	Hooks "
	Crank Han	dles					**	0	5	57a.	" (Scientific) " "
a.	Wheels, 3"	diam.,				VS	**	1	0	57b.	" Loaded "
	Flanged W	heels					"	0	9	58.	Spring Cord per length
	The San	Pulle								59.	Collars with Set Screws each
6.	3" dia. with					screw	. ,,	1	0	*61.	Windmill Sails "
	6" "	**	**		**	**	,,	3	9	62.	Cranks "
a.			,,			**	**	0	9		Threaded Cranks "
		,,	"		"	**	"	0	9	63.	Couplings ,,
•	11	,,,			"		"	0	6		Octagonal Couplings "
a.	1, "	**			"	"		0	6	63b.	Strip Couplings "
a.	1" " with	out"	"		"	"	"	0	3	63c.	Threaded Couplings "
d.	1" " WILL	out	,,,		"	"	"	0	3	64.	Threaded Bosses "
	Back Wit	1.	"	S	**	**	**	0	9		Centre Forks "
	Bush Whee	:1S				•••	**	2.5		65.	W. i. i
	Pinion Wh	eels, 4	dian	n,			29	0	9	66.	Weights, 50 grammes "
	22	, 1	r Wh				**	0	6	67.	, 25 ,, ,,
		Gea	r Wh	eels						68.	Woodscrews, ½" doz.
	50 teeth to	gear w	ith 3	" pi	nion	***	**	1	3	69.	Set Screws "
a.	5/ "		į				***	1	3	69a.	Grub Screws, 5/32" "
Ь.	133 "		Ã	. ;	. (31	" dia	.)	2	3	69b.	7/32" ,,
	Contrate V	heels	11"	lian	1.		**	1	3	*70.	Elat Diatos 51" v 91" each
			1"	,,				0	9	*72.	", ", $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " "
	Bevel Gear	. "					"	1	3	*76.	Triangular Plates, 2½" "
	Devel deal				***		**			10.	A

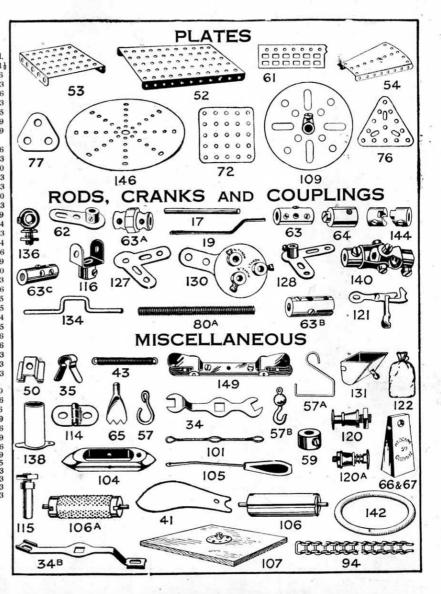
MPORTANT.—All Meccano parts marked thus * are available with either red or nickel finish and all marked thus † are available with either green or nickel finish. When ordering nickelled parts quote only the numbers now shown in the list. When coloured parts are required add letter X to the distinguishing numbers under which they are listed. Thus part No. 99 would be ordered as 99x; part No. 99a as 99ax and so on.

Particulars and Prices of Meccano Parts (continued)

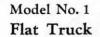
								c	d.	I No.		. d.
No.	Triangul	or Dias	or 1	*			each		2		Bolts. 1" 2 for 0	111
78.	Screwed				•••			0	9	111c.	, §" doz. 0	6
79.	Screwed		8"		ď.,	•••	"	0	8	113.	Girder Frames each 0	
10000	"	37	6"	•••	•••	***	"	0	6	114.	Hinges per pair 0	
79a.	"	**	5"	•••	•••		"	0	5	115.	Threaded Pins each 0	
80.	**	"	31"	•••	•••	•••	"	0	5	116.	Fork Pieces 0	
80a.	. 39	33		****	***	***	29	0	5	117.	Steel Balls, &" diam doz. 0	
80b.	**	"	4½" 2"				**	0	3	*118.	Hub Discs, 5½" diam each 1	
81.	**	**		***		•••	**	0	2	*119.	Channel Segments (8 to circle,	9
82.	. ".		1"	•••		•••	"	0	3	119.	- 1. TO THE STATE OF THE STATE	6
89.	Curved :						**		**	100		3
90.	**		½″ la				23	0	2	120.	Buffers , 0	
†90a.	,,		2¼″ sn				. "	0	2	120a.		1 2
94.	Sprocket	Chain	•••		per				9	121.	Train Couplings each 0	
95.	Sprocket	Wheel			n.	• • •	each		8	122.	minuture Loudes out to " " "	
95a.	"	,,	11/2	" "			"	0	6	123.	Cone Pulleys , 2	
95b.	"	**	3"			•••	**	0	9	124.	Reversed Angle Brackets, 1" ½ doz. 1	
96.	"	**	1"				**	0	5	125.	", " " ½" " 0	
96a.	***	"	3			***	"	0	5	*126.	Trunnions each 0	
†97.	Braced (Girders,		long			doz.	1	3	*126a.	Flat Trunnions " 0	
†97a.	"	,,	3"	,,		•••	"	1	0	127.	Simple Bell Cranks " 0	
†98.	,,	,,	21"	**			"	0	9	128.	Boss Bell Cranks " 0	2 45
†99.	**	**	121"	,,	***		"	2	9	129,	Rack Segments, 3" diam " 0	
†99a.	,,	"	91"	**			"	2	6	130.	Triple Throw Eccentrics " 2	
†99b.	***	"	71"	,,			,,	2	0	*131.	Dredger Buckets " 0	
100.	**	,,	51"	,,,			,,	1	6	132.	Flywheels, 23" diam , 3	
100a.			41"	,,,				1	6	*133.	Corner Brackets " 0	
101.	Healds.	for loor	ns				doz.	1	3	134.	Crank Shafts, 1" stroke ,, 0) 5
102.	Single B	ent Str	ips				each	0	2	135.	Theodolite Protractors ,, 0	
103.	Flat Gir			g			doz.	1	6	136.	Handrail Supports ,, 0) 5
103a.		, 9			***		. ,,	2	3	137.	Wheel Flanges ,, 0	6
103b.	10 0001	, 12					,,	3	0	138.	Ship's Funnels ,, 0	6
103c.		43			***		,,	1	3	*139.	Flanged Brackets (right) ,, 0) 3
103d.		01	22.3				"	i	0	*139a	" " (left) " 0	3
103e.		0"	2000		•••		"	0	9	140.	Universal Couplings " 1	3
103f.		0.1					"	0	8	141.	Wire Lines (for suspending clock	
103g.		0.5	1.00				"	0	6	1	weights) ,, 1	0
103h.		, -					"	0	5	142.	Rubber Rings ,, 0	6
103h.	,, ,	71						2	0	142a.	Dunlop Tyre, 2" " 0	6
103K.	Shuttles.			•••			each	-	0	142b.	, , 3" ,, 0	9
105.	Reed Ho							0	6	*143.	Circular Girders, 51" diam " 1	6
106.	Wood R					•••	**	2	0	144.	Dog Clutches , 0	9
						***	"	2	3	*145.	Circular Strips, 7" diam, over all ", 1	6
106a.	Sand Ro		•••				**	_		*146.	" Plates, 6" " " 1	
107.	Tables fo						,,,	1	6	147.	Pawls, with pivot bolt and nuts ,, 0	
108.	Architra						22	0	3	147a.	Pawls , 0	
109.	Face Pla				•••		"	0	6		Pivot Bolt with nuts " 0	
110.	Rack St.						,,	0	3	148.	Ratchet Wheels 1	
111.							**	0	11	149.	Collecting Shoes, for Electric Locos , 2	3

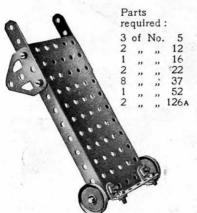
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As new parts are frequently added to the Meccano system the foregoing list is not necessarily complete. The latest illustrated list should be obtained from your dealer, or from Meccano Ltd., Liverpool, England.

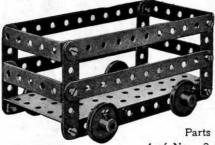


Trucks and Luggage Carts





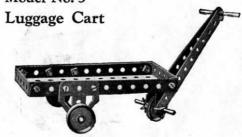
Model No. 2 Truck with Sides



Parts required:

4	of	No.	2	4	of	No.	22
4	,,	,,	5 16	12	,,	,,	37
2	,,	,,	16	4	,,	,,	48A
		1	of N	10.	52		

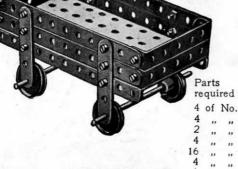
Model No. 3



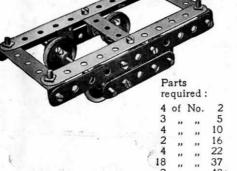
Parts required:

2	of	No.	2	19	of	No.	37
1	,,	,,	16	1	,,	,,	44
2	,,	,,	17	2	,,	,,	48
3	,,	,,	22	1	,,	,,	52
4	,,	,,	35	2	,,	,,	126

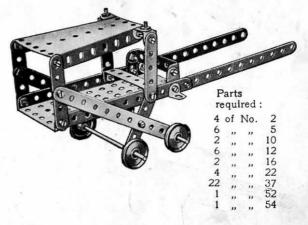
Model No. 4 Truck



Model No. 5 Bogie Truck

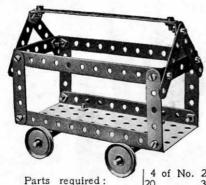


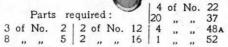
Model No. 6 Ticca Gharry



Model No. 7 Covered Truck

Trucks and Luggage Carts (continued)

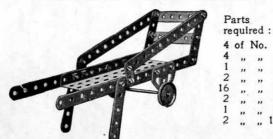


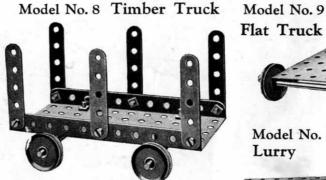


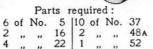
Model No. 10 Shipyard Bogie

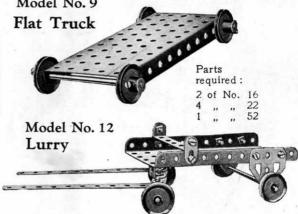


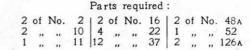
Model No. 13 Coster's Barrow











0

Parts required:

2 of No. 16 | 4 of No. 35

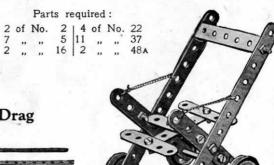
2 ,, 17 | 4 ,, 37

4 ,, 22 | 2 ,, 48A

1 of No. 52

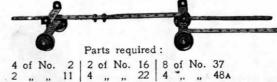
Model No. 11

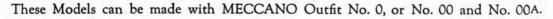
Model No. 15 Go Chair

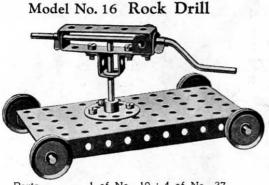


Model No. 14 Timber Drag

Timber Truck



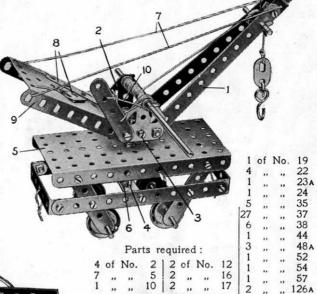


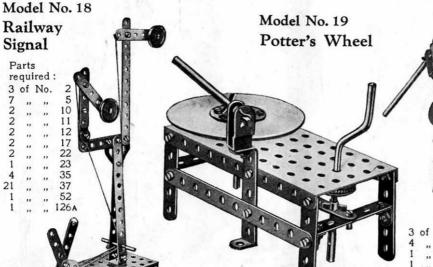


1 of No. 19 | 4 of 4 ,, ,, 22 | 2 | 1 ,, ,, 24 | 1 | 2 ,, ,, 35 | 2 4 of No. 37 Parts required: 2 of No. 16 | 1 " " " 17 | 2 " "

Model No. 17 Travelling Crane

The jib 1 is pivoted to the flat trunnions 2, which are bolted at 3 to angle brackets secured to a bush wheel. The latter is nipped to a 2" rod 4 passing through the plate 5 and further supported in a double angle strip 6. A washer and spring clip mounted on the rod 4 below the strip 6 secure the crane to the carriage. The jib is supported by means of cords 7 tied to 21" strips 8, the holes of which engage the shank of a bolt passed through the sector plate 9, and its elevation may be altered by inserting this bolt in different holes in the strips 8. The cord 10 of the brake lever is wound once round the crank handle, between two washers.





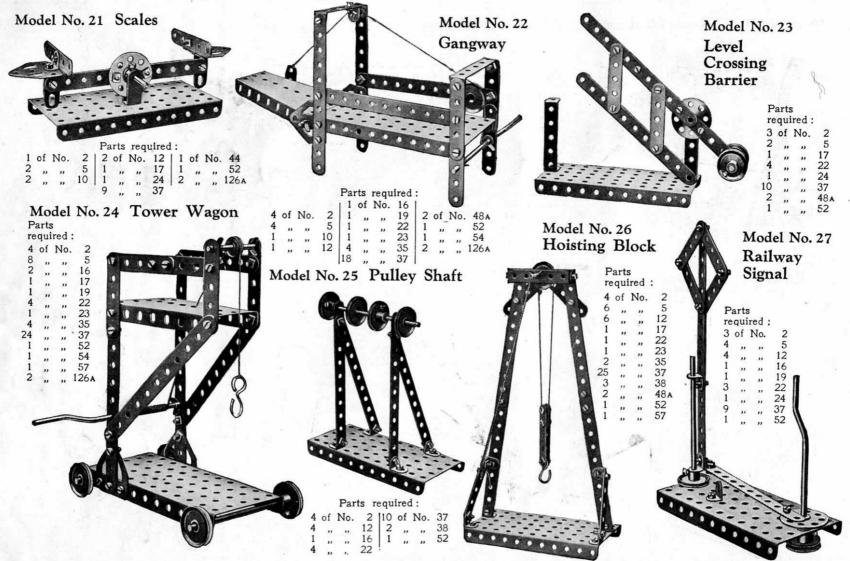
Model No. 20 Well Windlass

Parts required :

FIG. 19A

3	of	No.	2	1	of	No.	24
4	,,	,,	5	2	,,	,,	35
1	,,	,,	16	17	,,	,,	37
1	,,	,,	19	1	,,	,,	44
2	,,	,,	22	3	,,	,,	48A
		1	of 1	No.	52		

Parts required: 2 of No.



Model No. 28 Drilling Machine

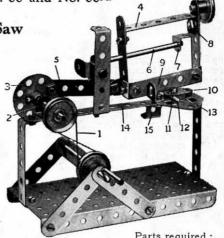
FIG. 28A

(Detail of Drilling Machine) Model No. 30 Buffers



Model No. 29 Mechanical Saw

The strip 9 represents the saw. The crank handle drives through a belt 1 a short rod journalled in a double tracket 2 and carrying a bush wheel 3. The latter imparts a reciprocating motion to the saw frame 4 through a 21" strip 5 loosely mounted on bolts secured to the bush wheel and to an angle bracket bolted to the saw frame. This frame slides on a 31" rod 6, which acts as a guide, passing through the frame and supported in a reversed angle bracket 7. A washer is placed on the bolt 8 behind the bracket 7. A vice to secure the objects in position for cutting consists of a flat bracket 10 mounted on a bolt 11, a few turns of which causes the flat bracket to grip the object 12. The bolt 11 enters a nut held between the flat trunnion 13 and 54" strip 14. which are spaced apart for the purpose by washers placed on the two bolts holding the trunnion in position. The saw frame rests on the stop 15 when not in use. A 1" pulley secured to the top of the frame acts as a weight and helps to steady the saw.



						1 4		oqu	1110	u.	
1	of	No.	2	1	of	No.	17	4	of	No.	38
8	,,	,,	5	1	,,	,,	19	1	,,	,,	44
1	,,	,,	10	3	,,	,,	22	4	,,	,,	48
1	,,	.,	11	1	,,	,,	24	1	,,	,,	52
4	,,	,,	12	3	,,	,,	35	2	,,	,,	125
1			16	22			37	1			126

Model No. 31 Swing



Model No. 32 Ore Crusher

Model	No. 33	Jib	Crane

	4	of	No.	arts 2			No.	23
	9	,,	,,	5	1	,,	,,	24 35
	2	,,	,,	16	4	,,	,,	35
)	1	,,	,,	17	17	,,	,,	37
	1	"	"	19	1	,,	,,	48A
	4	"	"1	22 of 1	10.	57	"	52
								/
							/	M

Parts	required	
I aits	required	

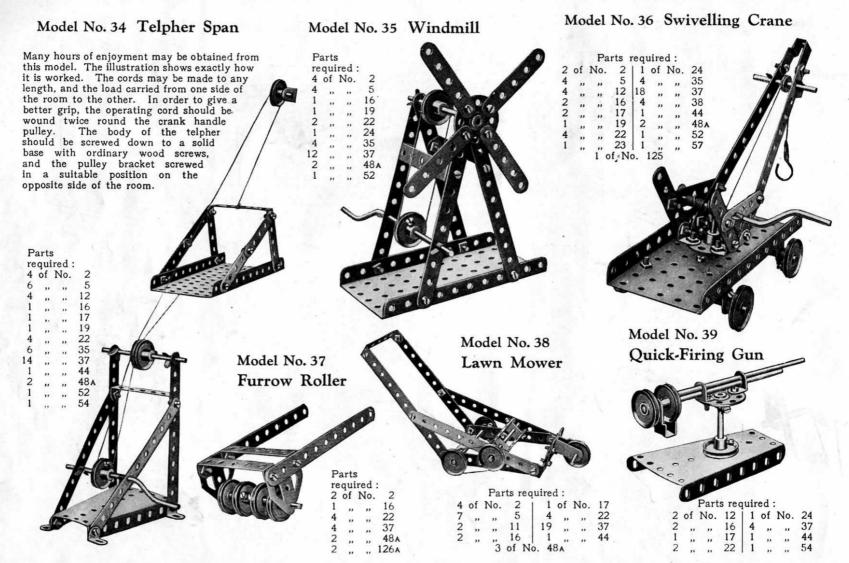
2	of	No.	2	2	of	No.	35
2	,,	,,	5	6	,,	,,	37
2	,,	,,	17	2	,,	,,	48A
2	,,	,,	22	1	,,	,,	35 37 48 a 52

Parts required:

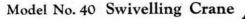
4	of	No.	2	20	of	No.	37
4	,,	No.	5	1	,,	,,	48
6	,,	,,	12	1	,,	,,	52

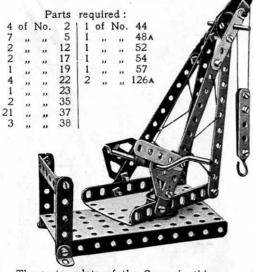
Parts	required :	

6	of	No.	5	1	of	No.	24
2	,,	,,	10	2	,,	.,,	35
1	,,	,,	16	10	,,	,,	37
1	,,	,,	19	2	,,	,,	48
2	,,	No.	22	1	,,	,,	52



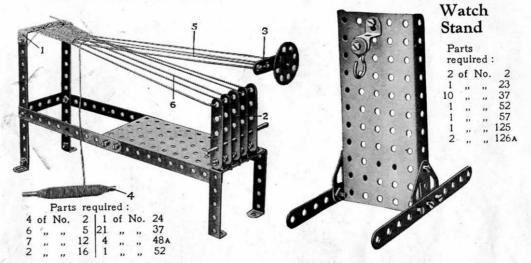
Model No. 42



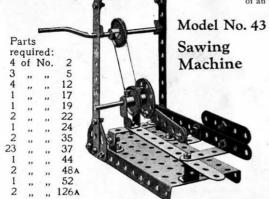


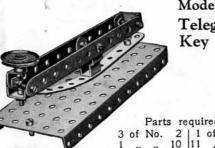
The sector plate of the Crane in this model is pivoted to the base with a fast pulley above and below.

Model No. 41 Hand Loom



The warp threads are tied at one end to a double angle strip 1, whilst their other ends are secured alternately to the tops of the upright strips 2, and the 2½" strip 3. The "shedding" movement of the warp is obtained by moving the strip 3 up or down each time the shuttle—a 3½" rod 4—is passed between the two layers of warp 5 and 6. Wool or similar material is particularly suited to this apparatus. The strands 6 should be kept very taut, and the weft threads may be closed up with the woven portion by means of an ordinary comb each time the shuttle passes.

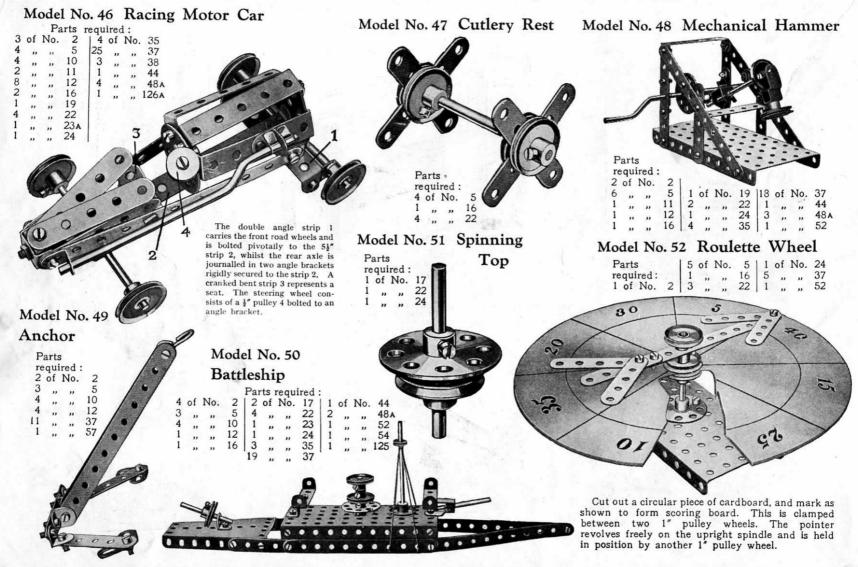


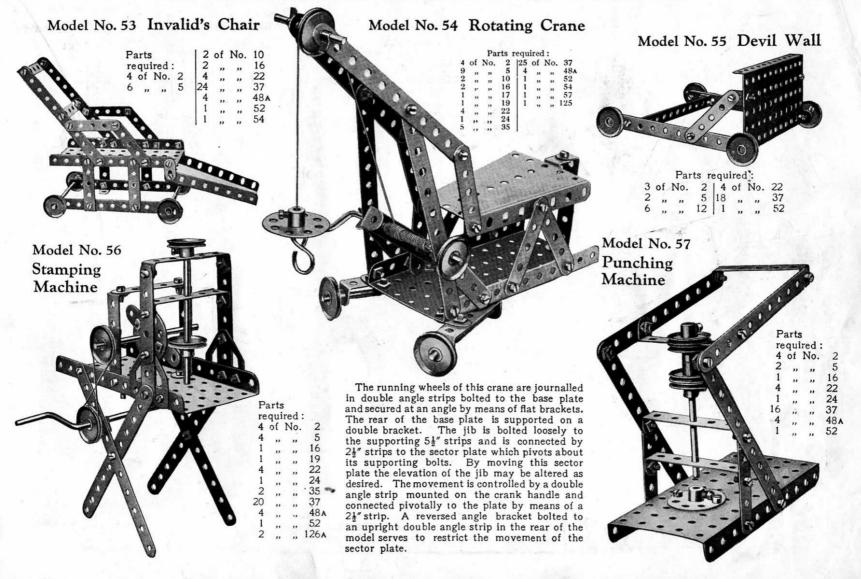


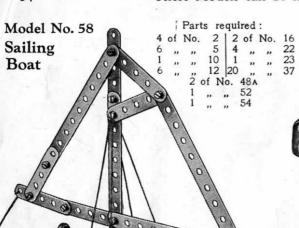
Model No. 44 Telegraph Key

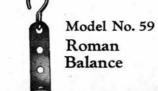
Model No. 45 Gong

re	qui	red:	
4	of	No.	2
1	,,	,,	5
3	,,	,,	12
1	,,	,,	16
1	,,	,,	22
7	,,	**	37
1	,,	"	52
1	,,	,,	54









Model No. 63

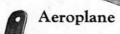
Model No. 60 Vegetable Chopper Parts required: 4 of No. 2

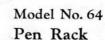
Model No. 61 Mail-Bag Hanger

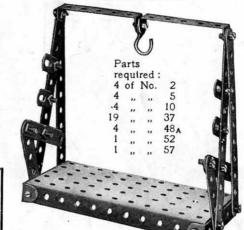
	arts	red:	
		No.	2
4	,,	,,	12
10	,,	,,	37
1	,,	,,	48 A
1	,,	,,	52
1	,,	,,	57



22	2	No.	of	3	2	No.	of	1	
37	3	,,	,,	3	5	,,	,,	1	
44	4	,,	,,	1	10	,,	,,	2	
57	5	,,	,,	1	17	No.	,,	1	
	-	"	,,	1	17	"	,,	1	



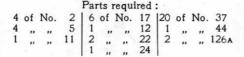




Model No. 62 Clothes

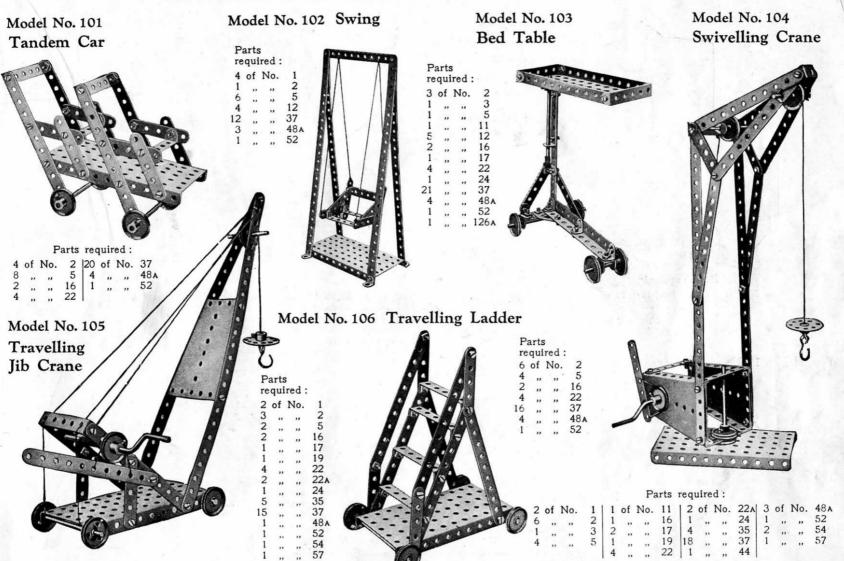
Horse

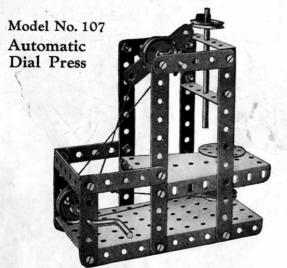
	arts	red:	
		No.	2
6	,,	,,	5
12	,,	"	37



HOW TO CONTINUE

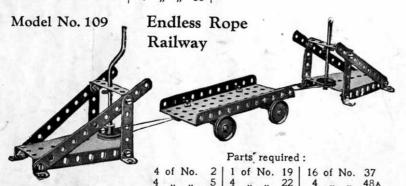
This completes the Models which may be made with MECCANO Outfit No. 0. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 0A Accessory Outfit, the price of which will be found in the list at the end of the Manual.





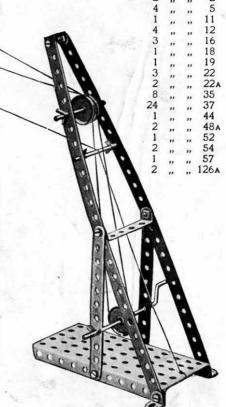
Parts required:

4	of	No.	2	1	of	No.	19 22 22 _A 24	18	of	No.	37
7	,,	,,	5	4	,,	,,	22	3	,,	,,	48
2	"	,,	16	2	,,	,,	22A	1	,,	,,,	52
1	"	"	17	7	,,	, "	24	1	,,	"	54
				1			200				



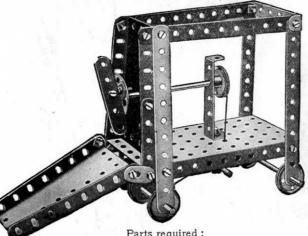


This model is an improvement on Model No. 36 and, as in the case of that model, it will provide many hours of enjoyment. The cords may be made to any length to allow the load to be carried from one side of the room to the other and, if necessary, a better grip may be obtained by winding the operating cord twice round the pulley on the crank handle. The open sides of the bucket may be closed with cardboard so that it may be loaded with marbles, beads, etc. The bed of the Telpher may be screwed on to a solid base with ordinary wood screws to give better support. The pulley bracket, and that securing the cord on which the bucket travels. should be screwed in a suitable position on the opposite side of the room.



Parts required:

Model No. 110 Snow Plough

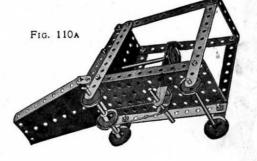


Parts required:

6	of	No.	2	1	of	No.	17	19	of	No.	37
3			5	4	,,	,,	22	1	,,	,,,	-44
2			10	2	,,	,,	22A	2	,,	,,	48A
1			12	1			24	1	,,	,,	52
3	,,		16	4	,,	,,	35	2	,,	,,	54

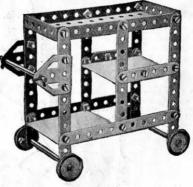
Model No. 112 Roundabout

The vertical spindle of the Roundabout is secured in place in the base plate by means of a 1" fast pulley bolted on either side of the plate. Washers should be placed beneath these pulleys in order to obtain freedom of movement.



The construction of the framework of this model presents no difficulty. The sector plate forming the plough is loosely pivoted to the model. The plough shaft is mounted in the front sector plate and the 21 double angle strip. A 21 strip is bolted by angle brackets to a bush wheel on the front of the shaft and forms a dispersing propeller for the snow after it has risen up the inclined sector plate. A continuous cord is passed round a 1" pulley on the propeller shaft and round the short axle shown beneath the model (Fig. 110A) and a 1" pulley on the leading axle. In this way, as the plough is moved along the ground, the propeller is rotated.

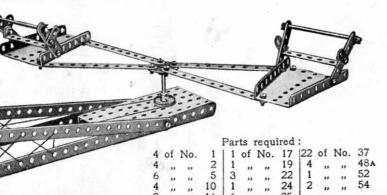
Model No. 111 Dinner Wagon

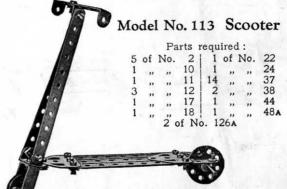


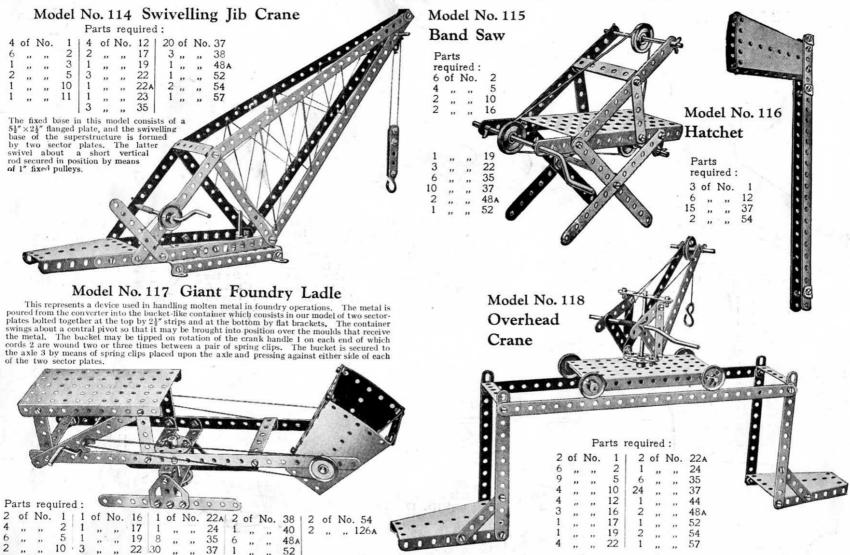
Parts required .

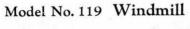
				-44	***		
6	of	No.	2	12	of	No.	35
8			5	22	,,	,,	37
4	,,	,,	12		,,	,,	48A
3	,,	,,	16		,,	,,	52
4	,,	,,	22	2	,,	,,	126A

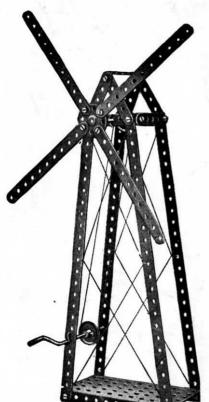
The two lower platforms are constructed out of pieces of ordinary cardboard, their outer edges resting on $2\frac{1}{2}$ " bent strips and their inner edges on angle brackets.





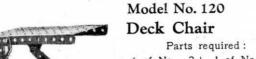






Parts required:

		1 al	10	quire	·u·		
4	of	No.	1	2	of	No.	22
4	,,	,,	2	1	,,	,,	24
7	,,	,,	5	4	,,	,,	35
2	,,	,,	12	20	,,	,,	37
1	,,	,,	16	3	,,	,,	48A
1			19	1 1	,,	,,	52



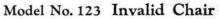
6 of No. 2 | 1 of No. 24 4 " " 12 | 17 " " 37 1 " " 17 | 1 " " 44 1 " " 19 | 2 " " 48A 3 " " 22 | 1 " " 52

Model No. 122 Lathe

Parts required:

4 of No. 1 | 4 of No. 35
2 ,, ,, 2 | 26 ,, ,, 37
4 ,, ,, 5 | 3 ,, ,, 48A
4 ,, ,, 10 | 1 ,, ,, 52





Parts required:

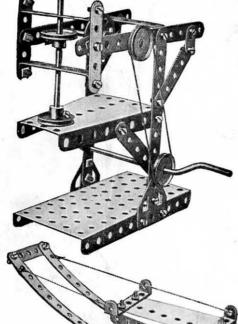
4 of No. 2 | 13 of No. 37
2 ,,,, 5 | 1 ,,,,, 44
2 ,,,, 16 | 2 ,,,, 48A
1 ,,,, 18 | 1 ,,,, 52
1 ,,,,, 22A
1 ,,,,, 24
4 ,,,, 35

Model No. 121 Jib Crane

Model No. 124 Drop Stamp

Parts required:

4	of	No.	2	1	of	No.	19	13	of	No.	48A
6	,,	,,	5	4	,,	,,	22	1	,,	,,	52
3	,,	,,	10	1	,,	,,	24	1	,,	,,	54
2	,,	, ,,	16	27	,,	,,	35	2	,,	,,	48a 52 54 126a



Model No. 125 Sewing Machine

Parts required:

3	of	No.	2	1.1	of	No.	16 17 18 _A 19 21	1 2	of	No.	22	1	1	of	No.	44
6	,,	**	5	1 2	2 ,,	,,,	17	1	,,	,,	24	1	4	,,	**	48
3	,,	"	10	1	,,	,,	18A	3	,,	,,	35	1	1	,,	"	52
2	,,	**	11	1	,,	**	19	2	. ,,	,,	37	1	1	,,	**	54
3	,,	22	12	1 2	2 ,,	"	21	3	,,	,,,	38	1	2	"	"	125

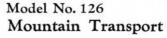
The handle 1 carries a 1" pulley 2, which drives by means of a cord a similar pulley on a 2" rod 3 journalled in a cranked bent strip bolted to the sector plate. Two double brackets 4 are secured together by a bolt 5, the shank of which presses very tightly on the rod 3. This locks the double brackets in position, and they revolve with the rod 3. The outer double bracket carries a 1\frac{1}{2}" rod 6, the end of which lies between two strips 7, arranged at a short distance apart from each other and bolted to two flat brackets. These are secured to a further strip 8 bolted pivotally to a transverse double angle strip. As the shaft 3 rotates, the rod 6 slides between the strips 7 and so rocks the strip 8 from side to side. This represents the movement of the shuttle.

side. This represents the movement of the shuttle.

The bush wheel 9 carries two angle brackets placed together in the form of a double bracket, with their elongated holes overlapping, and in such a position that an imaginary line drawn through their opposite round holes, would intercept the centre of the bush wheel. A flat bracket is bolted to the inner angle bracket in a line with the crank handle and forms a lever which engages a 1" pulley 10 mounted on a vertical sliding rod 11. This rod is journalled in a double angle strip bolted between the lower holes of the two flat trunnions and is further supported by two ½" reversed angle brackets secured to the angle strip.

As the bush wheel rotates, the flat bracket imparts to the rod 11 a movement

The outer angle bracket on the bush wheel strikes once in every revolution the end of a double angle strip 12. This is pivotally mounted by a bolt passed through its second hole from the bush wheel end to the centre hole of the flat trunnion on that side of the model. The resulting movement of the strip 12 represents the apparatus by which the cotton is paid out from the reel to the





2	of	No.	1	3	of	No.	5	2	of	No.	16	18	of	No.	37	1	of	No.	52
2	,,	,,	2	4	,,	,,	12	4	,,	,,	22	2	,,	,,	37 48A	1	,,	,,	54

Model No. 127 Motor Lorry

Parts required:

4	of	No.	21
8	,,	,,	2 5 12
8 4 2 1 3 2 1	,,	,,	12
2	,,	,,	16
1	,,	,,	17
3	,,,	,,	22
2	,,	,,	22A
1	,,	,,	24
2	,,	,,	35
25	,,	,,,	37
3	,,	,,	38
3	,,	,,	48A

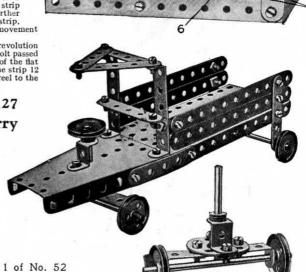
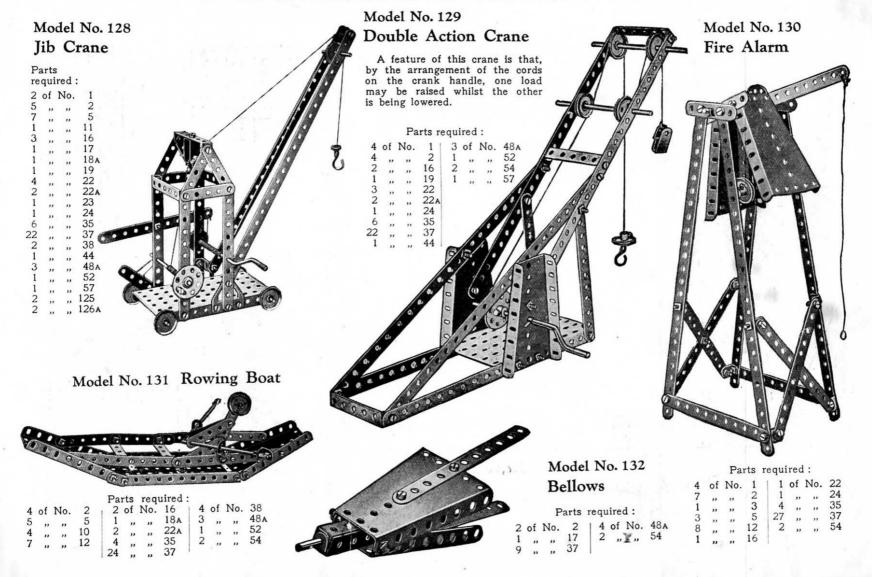
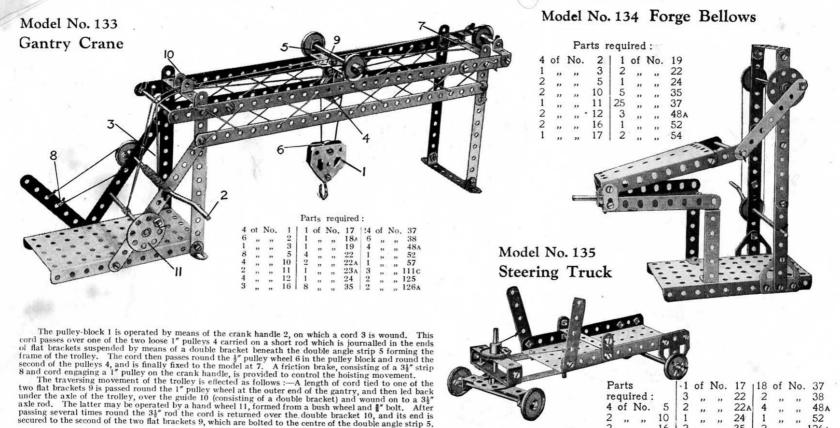


FIG. 127A







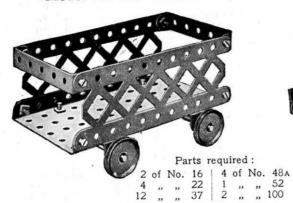
HOW TO CONTINUE

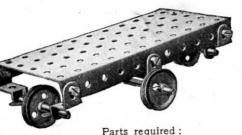
This completes the Models which may be made with MECCANO Outfit No. 1. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 1A Accessory Outfit, the price of which will be found in the List at the end of the Manual.

Model No. 201 Truck

Model No. 202 Revolving Truck

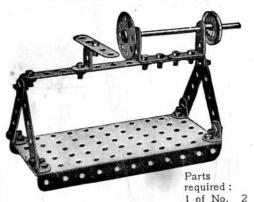
Model No. 203 Lathe



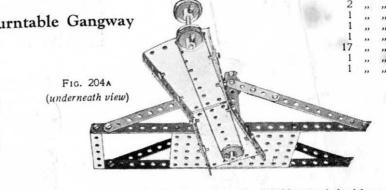


Parts	required	:

2	of	No.	10	2	of	No.	22	6	of	No.	37
1	٠.		16	2	,,	,,	22A	1	,,	,,	52
2	,,	,,	17	4	,,	,,	22a 35	4	,,	,,	125



Model No. 204 Tu

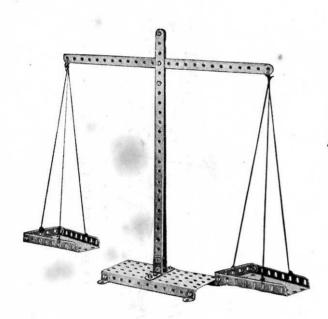


Parts required

		1 0	ar to	cqu	1100		
2	of	No.	1	4	of	No.	22
6	,,	,,	2	1	,,	,,	24
2	,,	,,	3	34	,,	,,	37
4		,,	5	3	,,	,,	484
1	,,	,,	15A	1	,,	,,	52
1	,,	.,	17	2	,,	,,	54

The side frames of the gangway are made of 12½" strips bolted by means of 21" bent strips to parallel strips below. The side frames are connected by a perforated flanged plate, to the underside of which is bolted a bush wheel fitted with a rod on which is mounted a 1" pulley (see Fig. 204A). The rod passes through one of the end holes of the sector plate which is connected by diagonal strips to another sector plate. Through the end hole of the latter a rod is threaded carrying two 1" pulleys from one of which an operating cord passes through the pulley mounted on the under side of the flanged plate. In this way the Gangway may be rotated by an operating spindle.

Model No. 205 Scales

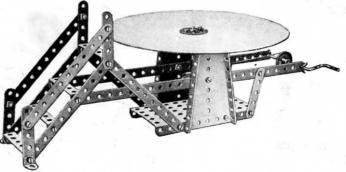


Parts required:

3	of	No.	1	4	of	No.	38
4	,,	,,	12	2			
2	,,	,,		1	,,	,,	52
19	,,		37	2			54

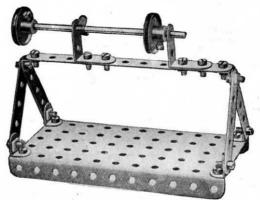
The slot is formed by inserting 2 washers on the bolts above and below the beam. These washers hold the strips composing the standard at the required distance apart to give the beam free play.

Model No. 206 Joy Wheel



The driving mechanism and construction of the framework of this model are clearly brought out in Fig. 206A. Cut out a circular piece of cardboard, 8" in diameter, and in the centre of the disc fix a bush wheel by nuts and bolts. The eye of the bush wheel is then threaded over the top of a vertical spindle, and secured by its set-screw.

Model No. 207 Polishing Spindle



Parts required:

2	of	No.	1	1	of	No.	22A
6	,,	,,	2	1	,,	,,	24
6	,,	,,	5	2	,,	,,	35
2	,,	,,	12	28	,,	,,	37
1	,,	,,,	15A	5	,,	,,	48A
1	,,	,,,	19	1	,,	,,	52
3			22	12			54

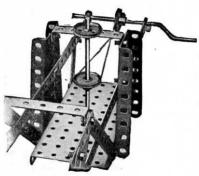


Fig. 206A

Parts required:

1	of	No.	2	1	of	No.	15A
4		,,	5	2		,,	
6		,,	12	1	,,	,,	35
2	,,	,,	12 12 _A	16	,,	,,	37
			l of l	No.	52		





Model No. 209

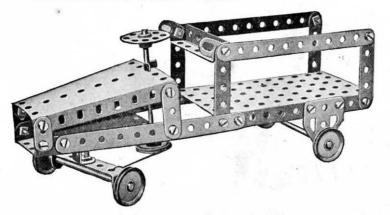
Gangway



Parts required:

4	of	No.	2	1 1	of	No.	22	1	of	No.	52
		,,	10			,,				,,	
1			12	4		,,	35	2		,,	100
1	,,	,,	16	17	,,	.,	37	2	,,	,,	126A
1			19	2			48A	1	**		

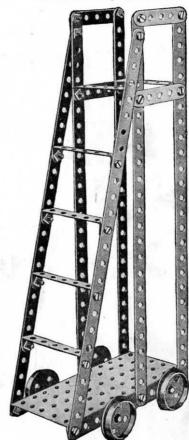
Model No. 211 Motor Truck



Parts required: 4 of No. 2 4 " " 5 2 " " 6A 4 " " 10 1 " 11 3 " 16 3 " 22 2 " 22 1 " 24 3 " 35 26 " 37 3 " 48 1 " 52 2 " 54 2 " 126 3 " 126 3 " 126

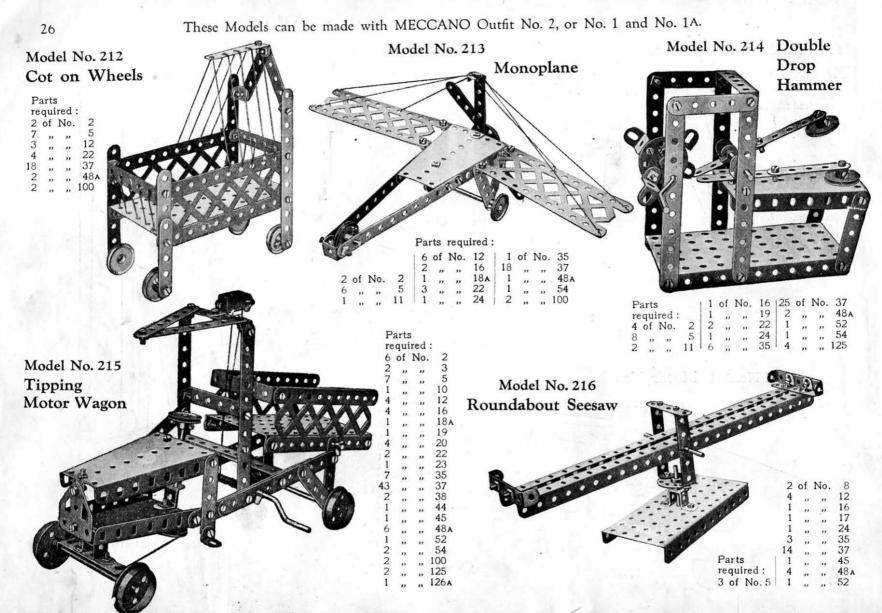
Model No. 210

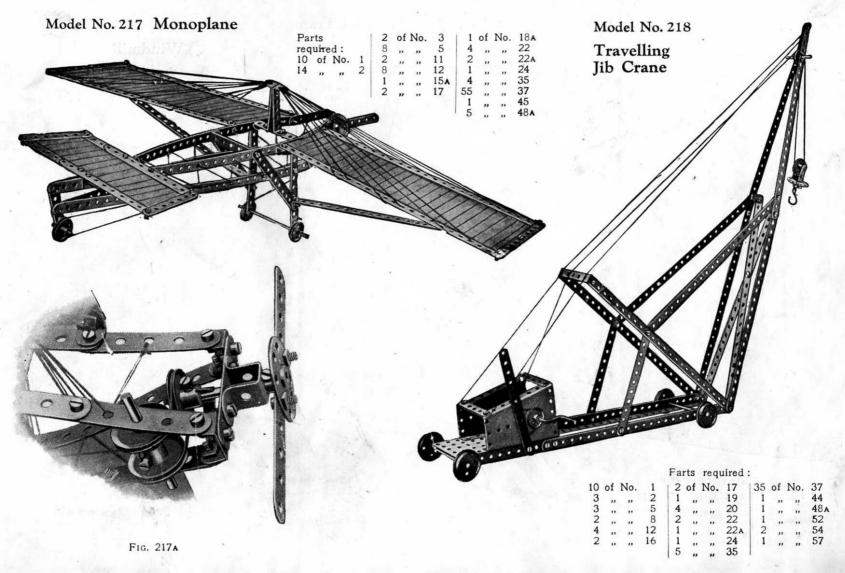
Ladder on Wheels



Parts required:

6	of	No.	1	24	of	No.	37 48 a 52
4	,,	,,	5	6	,,	,,	48A
2	,,	,,	16	1	,,	,,	52
4				1			



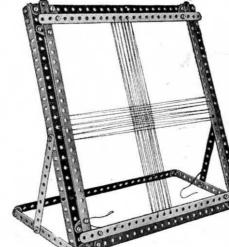


Model No. 220 Mat Frame

Parts required: 5 of No.

Model No. 219

Elevator



Model No. 222 High Level Bridge

Parts required:

10	of	No.					16				
1	,,	,,	3	1	,,	. ,,	18A	1	,,	,,	44
10	,,	,,	5	1	,,	,,	19	4	,,	,,	48A
4	,,	,,,	8	1	,,	,,	22	1	,,	,,	52
2	,,	,,	10				22A	2	,,	,,	54
4	,,	,,	12	5	,,	,,	35				

Parts required:

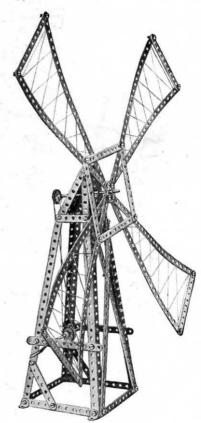
8 of No. 2 | 6 of No. 48A

8 " " 5 | 1 " " 52

24 " " 37 | 2 " " 100

Model No. 221

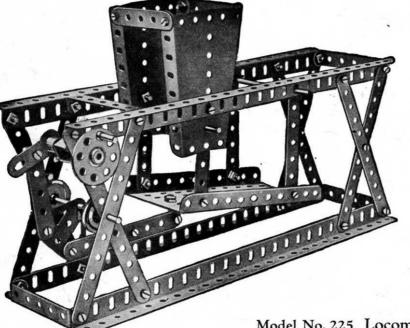
Windmill



Parts required:

10	of	No.	1	4	of	No.	12	1 4	of	No.	35
			2	1	• • • • • • • • • • • • • • • • • • • •		15	47	,,	,,	37
2	,,	,,	3	1	,,	,,	19	1	,,	,,	45
	,,		5	2	,,	0.000	22	2	,,	,,	54
4	,,	,,	8	1		,,	24	1:			

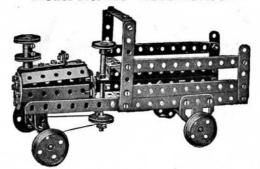
Model No. 223 Coal Sifter



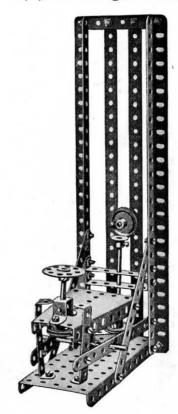
P	arts	5	
re	qui	red	:
8	of	No.	2
2	,,	,,	3
7	,,	,,	5
4	,,	,,	8
1	,,	,,	12
3	,,	,,	16
1	,,	,,	17
2	,,	,,	22
1	,,	,,	24
6	,,	,,	35
38	,,	,,	37
1	,,	,,	45
4	,,	,,	48A
1	,,	,,	52
1 2 1	,,	,,	54
1	,,	"	62
1	,,	**	115
1			1264

Model No. 225 Locomotive

Parts required:



Model No. 224 Try-your-strength Machine



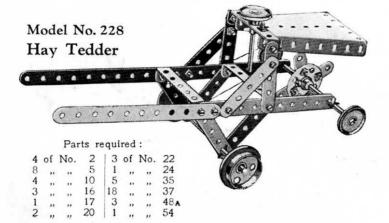
Parts required:

						. c.d.		•			
2	of	No.	1	1	of	No.	17	12	of	No.	38
5	,,	,,	2	1	,,	,,	18A	1	,,	,,	45
2	,,	,,	3	4	,,	,,	22	4	,,	,,	48 A
2	,,	,,,	8	1	,,	,,	24	1	,,	,,	52
1	,,	,,	11	4	,,	,,	35	1	,,	,,	54
2	٠,	,,	16	30	,,	,,	37	1	**	**	126A

Model No. 226 Candy Puller

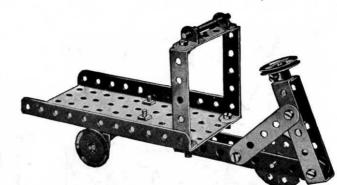


		red	
	of	No.	2
2	,,	,,	8
2		,,	12
2		"	12A
2	,,	"	17
1	,,	"	19
4	,,	,,	22
2	,,	,,	35
26	,,	,,	37
10	,,	,,	38
4	,,	,,	48 A
1	,,	,,	52
2		"	62
4	,,	,,	125
2	,,	,,	126A



Model No. 227 Carrier Tricycle

P	arts		
re	qui	red:	
2	of	No.	2
3	,,	,,	5
1	,,	,,,	11
2	,,	,,,	12
1	,,	,,	16
1	,,	,,	17
1	,,	,,	18A
3	,,	,,,	22
1	,,	,,	24
2	,,	,,	35
2 15	,,	,,	37
5	,,	,,	48A
1			52





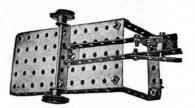
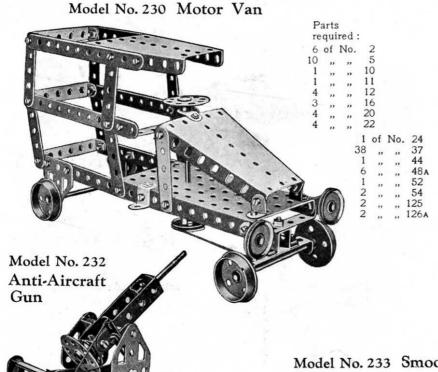
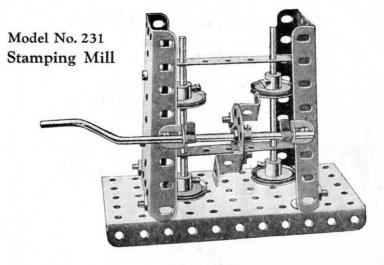


Fig. 227A
(underneath view)



Parts required:

5 of No. 10 | 4 of No. 22 2 ,, ,, 11 | 1 ... 24

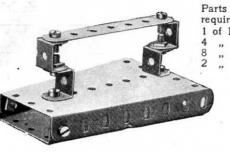


Parts required:

2	of	No. "	3	4	of	No.	22	1	of	No.	52
10	,,	,,	12	1	,,	,,	24	2	,,	,,	54
2	,,	,,	16	2	,,	,,	35	2	,,	,,	125
1			19	16	- 28	920	37				

Model No. 234 Coaster

Model No. 233 Smoothing Iron





Parts required:

2	of	No.	2	1	of	No.	17	6	of	No.	38
1		,,	5	4	,,	,,	20	1		,,	45
2		,,	12	1	,,		22				48A
1	,,	,,	15	1	,,		24	2	,,	,,	54
1	,,	,,	16	16	,,	,,	37	2	,,	,,	126A

Model No. 235 Needlework Basket

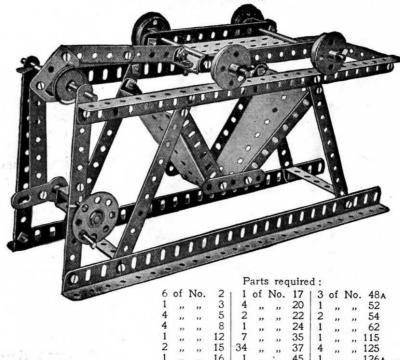


		red:	
6	of	No.	1
6	,,	,,	2
2	,,	,,	3
6	,,	,,	5
12	,,	,,	12
46	**	**	37
3	,,	,,	48
1	,,	,,	52

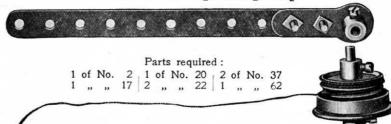
Model No. 237 Towel Rail

re	qui	red:	
2	of	No.	2
8	,,	,,	5
4	,,	,,	12
1	,,	,,,	15
4	,,	,,	16
2	,,	,,	22
6	,,	,,	35
12	,,	,,	37

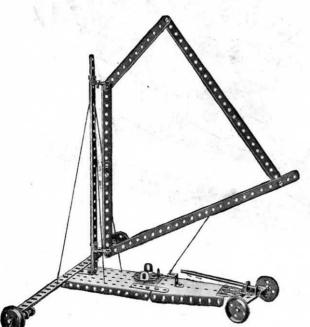
Model No. 236 Sifter



Model No. 238 Spinning Top

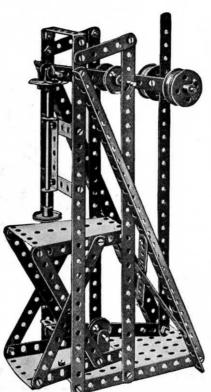


Model No. 239 Seashore Aeroplage



				1 6			uncu				
4	of	No.	1	1	of	No.	12A	33	of	No.	37
3	- ,,	,,	2	1	,,	,,	15	1	,,	,,	38
2	,,	,,	5	1	,,	,,	16	1	,,	,,	48A
1	,,	,,	8	2	.,	,,	17	1	,,	,,	52
3	,,	,,	10	4	,,	,,	20	1	,,	,,	54
3	,,	,,	11	1	,,	,,	24	1	,,	,,	125
7	,,	,,	12	6	,,	,,	35	1	,,	,,	126A

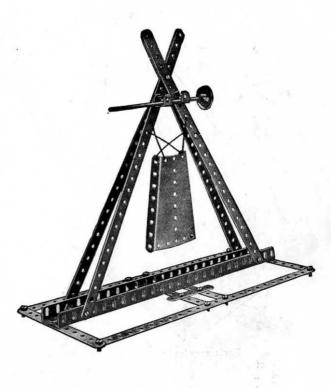
Model No. 240 Embossing Machine



Parts required

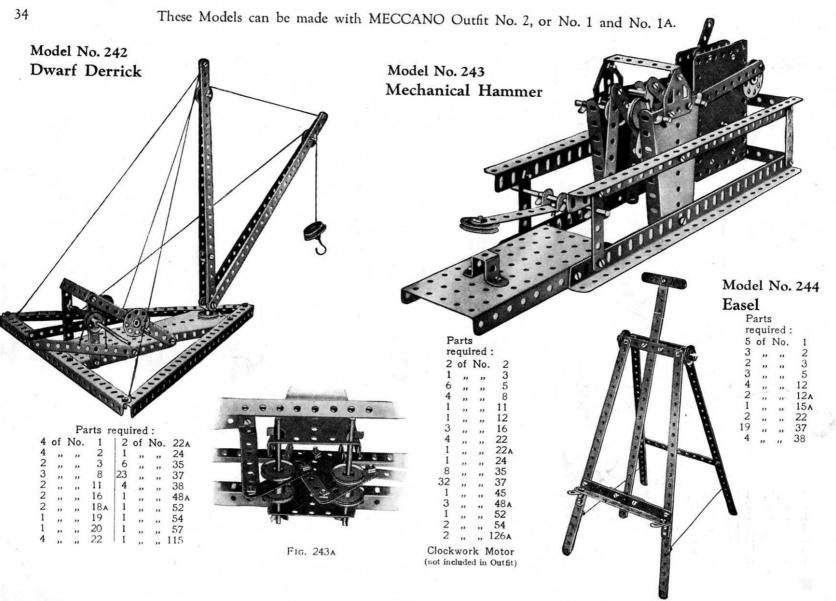
				Pa	rts	requ	ired:				
5	of	No.	1	2	of	No.	16	44	of	No.	37
9	,,	,,	2	1	,,	,,	17	1	,,	,,	44
2	,,	,,	5	1	,,	,,	18A	4	,,	,,	48 A
2	,,	,,	8	4	,,	,,	20	1	,,	,,	52
2	,,	,,	11	4	,,	,,	22	2	,,	,,	54
4	,,	,,	12	1	,,	,,	24				
1			15	4			35				

Model No. 241 Dinner Gong

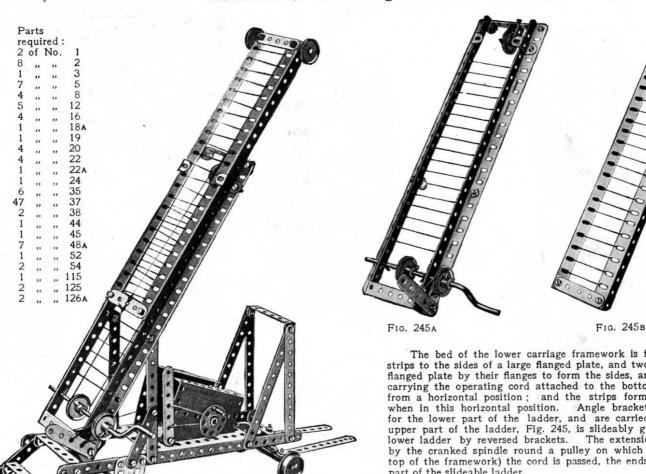


Parts required:

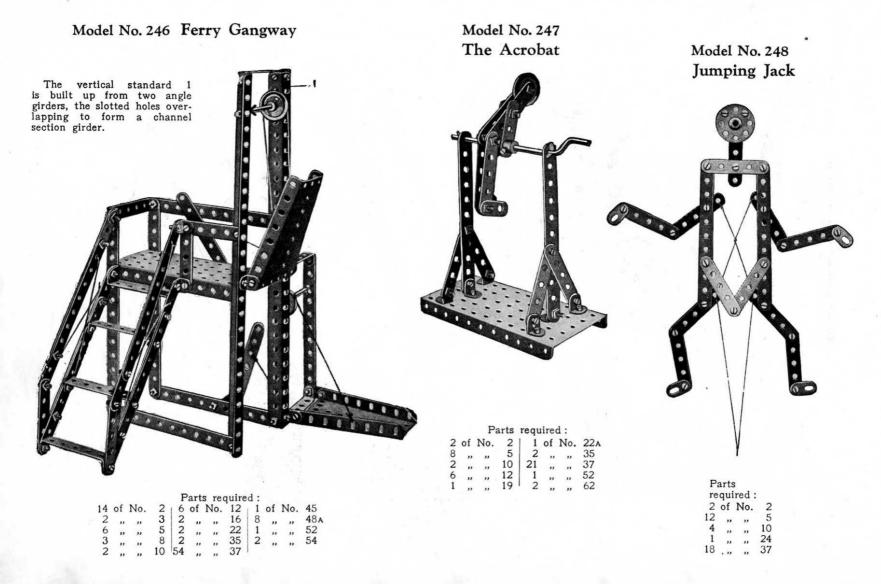
6	of	No.	1	1	of	No.	15
4	,,	,,	2	1	,,	,,	22
2	,,	,,	5	27	,,	,,	37
2	,,	,,	8	1	,,,	,,	54
2	,,		11				



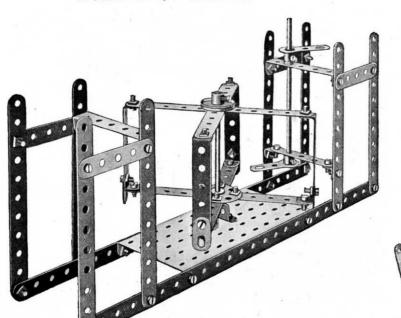
Model No. 245 Extending Ladder on Running Carriage



The bed of the lower carriage framework is formed by bolting two 121" strips to the sides of a large flanged plate, and two sector plates bolted to the flanged plate by their flanges to form the sides, and a bearing for the spindle carrying the operating cord attached to the bottom of the ladder to raise it from a horizontal position; and the strips form a support for the ladder when in this horizontal position. Angle brackets, Fig. 245A, form pivots for the lower part of the ladder, and are carried from the supports. The upper part of the ladder, Fig. 245, is slideably guided and retained on the lower ladder by reversed brackets. The extension of the ladder is effected by the cranked spindle round a pulley on which (and another pulley at the top of the framework) the cord is passed, the ends being secured to the lower part of the slideable ladder.



Model No. 249 Turnstile



Model No. 250 Chair for Wounded

	arts	red :	
		No.	
2	,,	,,	3
10	**	,,	5
2	,,	,,	11
2	,,	,,	16 22
21	,,	"	37
2	,,	,,	48A
1	,,	"	52
-	"	,,	



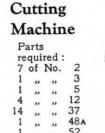
Model No. 252 Magic Sector Plates

Parts required: 2 of No. 11

When the cord is held vertically the magic sector plates will fall or stop at the bidding of the owner. If the cord is held without tension the plates will fall, but the instant the cord is tightened they will stop dead. The cord is wrapped once around the rod which passes through the centre holes of the sector plates.

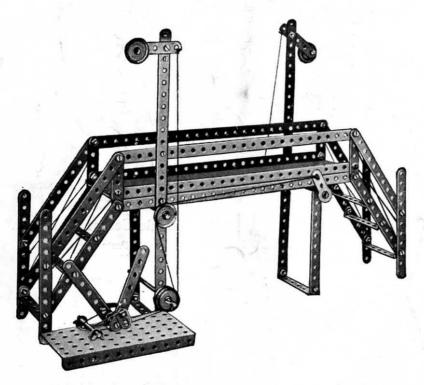


		Pa	rts re	equi	red	:	
2	of	No.	1	1	of	No.	24
10	,,	,,	2	42	,,	,,	37
9	,,	,,	5	2	,,	,,	38
4	,,	,,	10	1	,,	,,	45
2	,,	,,	12	6	,,	**	48A
1	,,	,,	15	1	,,	,,	52
1	,,	,,	15A	2	,,	,,	62
2			22	•			



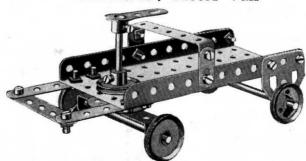


Model No. 253 Railway Foot Bridge and Signals



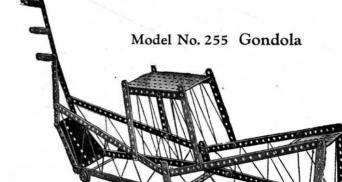
				Pa	rts	requ	ired	:			
4	of	No.	1	1	of	No.	11	2	of	No.	22A
14	,,	,,	2	2	,,	,,	12	6	,,	,,	35
2	,,	,,	3	1	,,	,,	15A	50	,,	,,	37
8	,,	,,	5	2	,,	,,	16	8	,,	,,	48A
2	,,	,.	8	1	,,	,,	17	1	,,	,,,	52
2			10	3			22	1			62

Model No. 254 Motor Van



Parts required:

3	of	No.	5	12	of	No.	22A	2	of	No.	48 A
							24				52
2	,,					,,	35			,,	
1	,,	,,	17	16	,,	,,	37				126A
3				12		·	38				



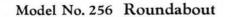
Parts required:

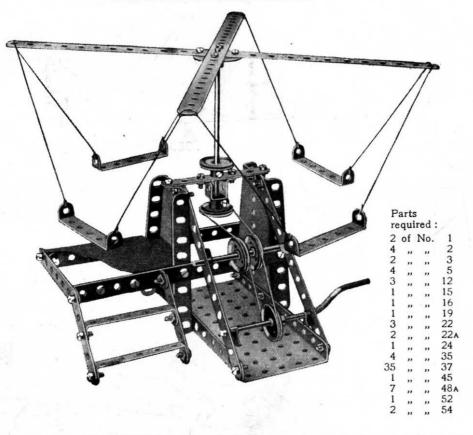
8 of No. 1 | 2 of No. 12 | 1 of No. 48A

9 , , , 2 | 2 , , , 16 | 1 , , , 52

1 , , , 3 | 4 , , , 22 | 2 , , , 54

5 , , , 5 | 29 , , , 37





Model No. 257 Beam Scales

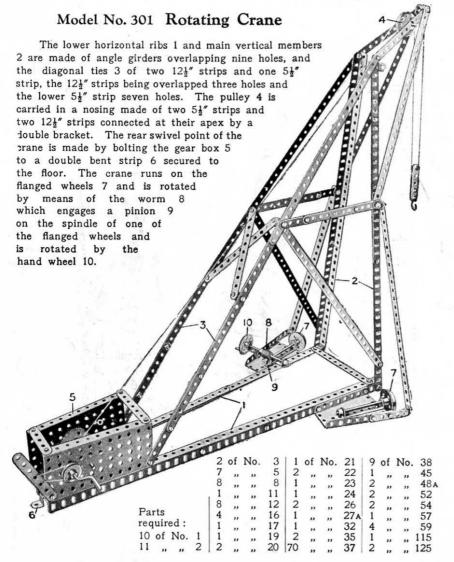


Parts required:

				1				1			
5	of	No.	1	16	of	No.	12	5	of	No.	48A
			2	2			17	1	,,	***	52
7	,,	,,	5	2	,,	,,	ZZA	2	,,	,,	54
4	,,	,,	8	6	,,	,,	35	2	,,	,,	126A
				48		,,	37				

HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 2. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 2A Accessory Outfit, the price of which will be found in the List at the end of the Manual.



Model No. 302 Toboggan



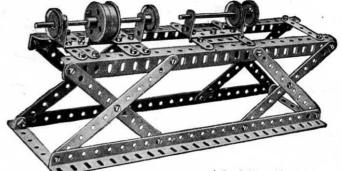
Model No. 303 Horse Sleigh



Parts required:

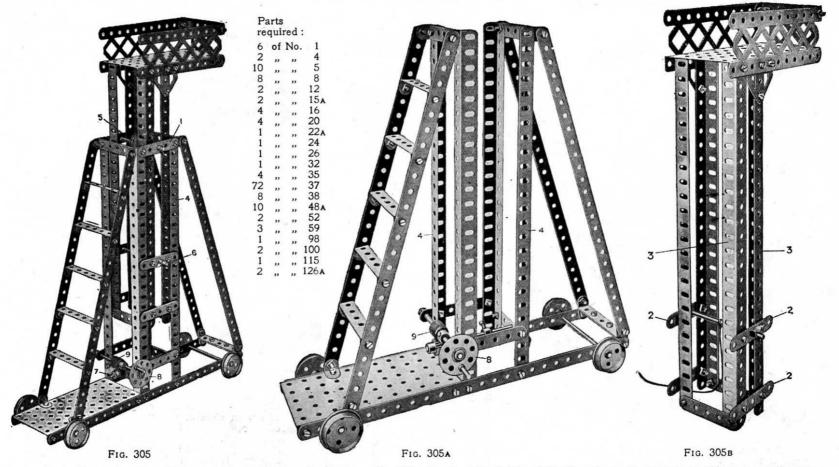
3 of No. 2 | 13 of No. 37 | 1 of No. 57 | 4 ,, ,, 5 | 1 ,, ,, 48a | 2 ,, ,, 90 | 1 ,, ,, 52 | 1 ,, ,, 126a

Model No. 304 Lathe



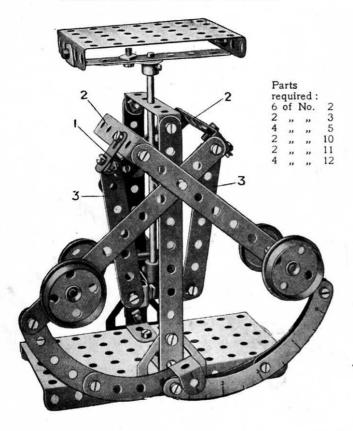
					12	of	No.	20
Parts	4	of	No.	8	1			22
required:	2		,,	12A	41	,,	,,	37
8 of No. 2	1	,,	,,	15A	1	,,	"	46
10 ,, ,, 5	1	,,	,,	16	2	,,		48.

Model No. 305 Tower Wagon



Begin the construction of this model by building up the platform, Fig. 305A, the tie strips 1 being left off as shown in order to be able to insert the rising and falling tower, Fig. 305B. The strips are then bolted on. The guide strips 2 are bolted to the girder 3 of the tower with washers beneath the strips. This gives the necessary clearance and enables the strips to rise easily up the faces of the girders 4 of the fixed lower part of the tower. The tower is raised by means of a cord which passes over a pulley 5 and is fastened to a rod 6, the other end of the cord winding on a rod 7 rotated by a hand wheel 8 on the spindle of the worm 9.

Model No. 306 Letter Balance



The connection at 1 of the rocking arms 2 to the thrust strips 3 is locknutted to give a free pivotal action, and similarly the pivotal connections 5 of the strips 3 to the lever strips 4 are locknutted to give free play.

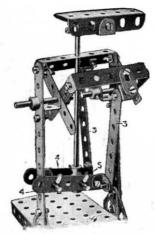
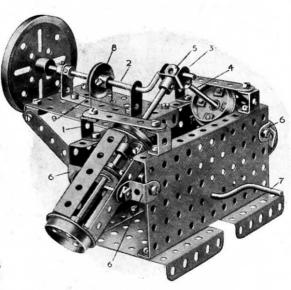


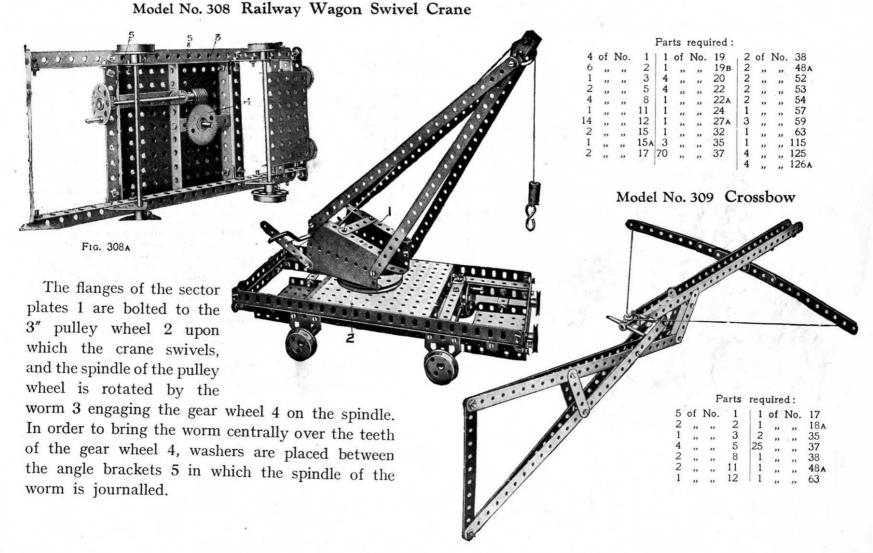
FIG. 306A

2	of	No.	12A	P	arts	5	
1	,,	,,	12A 15			1	:
2	of ""	,,	17	2	of	No.	3
2		,,	18 A 20 22 35	2	٠.		5
2	**	"	20	1	"	,,,	11
2	"	"	22	4	**	**	11
2	"	"	22	4	"	,,	12
4	,,	"	35	2	,,	,,	11 12 12A 15 19
10	,,	,,	37	2			15
6	,,	,,	37 38	2		353	19
3	**		48A	1	,,	,,,	100
ĭ	,,	"	400	1	**	"	175
1	,,,	"	48в	4	"	"	20
1	**	,,	52	4	,,	,,,	22
1	,,	,,	53	3	,,		35
4	,,	,,	59	50	,,	,,	37
63111411422	,,	,,,	52 53 59 62 63	50 6 2 3	,,	,,	20 22 35 37 48 A
1	,,	,,	63	2	,,	"	52 53 59 63 102 116
4	,,	,,	90	3	,,	,,	53
2			126	2			59
2	. "	,	125A		,,	,,,	63
2	"	,,	1204	1	**	**	00
				1	,,	,,	102
				1 1 1	,,	,,	116
				1			125

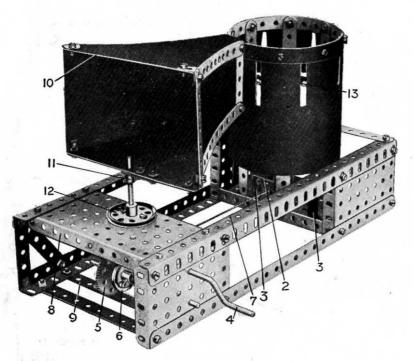
Model No. 307 Oscillating Steam Engine



The piston rod 1 of one cylinder is pivotally connected to the crank rod 2 by means of a fork piece 3, and the piston rod 4 of the other cylinder is pivoted to the crank rod by a coupling 5. The cylinders consisting of four strips are enclosed by flanged wheels at the ends, and are pivoted on a reversed brackets 6. The model is operated from the handle rod 7, a pulley on the rear end of which is coupled to the pulley 8 by a cord 9.



Model No. 310 Kinetograph

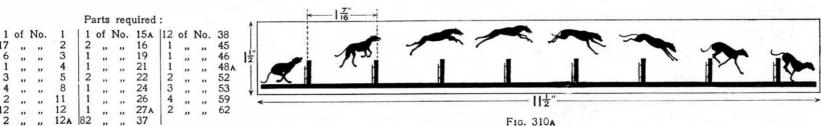


Most Meccano boys are probably aware of the principles of the Kinetograph, but for the benefit of those who have not seen one in action, we may mention that it is a device which imparts an appearance of animation to a series of pictures, each differing slightly from the other and passed in rapid succession before the eyes. In this respect it resembles the remarkable principle upon which the modern cinematograph is based.

In constructing the Meccano model the following details will prove useful:—The drum consists of a $12\frac{1}{4}$ " strip bent to form a circle, with its ends overlapping one hole, and bolted to eight vertical $5\frac{1}{4}$ " strips forming the sides. Two pairs of opposite $5\frac{1}{4}$ " strips are connected by $3\frac{1}{4}$ " strips and angle brackets bolted in the third holes from their lower ends. The $3\frac{1}{4}$ " strips cross at right angles to one another and are bolted in the centre to a bush wheel, in the boss of which is secured a short rod forming the pivot of the revolving drum. This rod is journalled in a double bent strip bolted to a $2\frac{1}{4}$ " \times 1" double angle strip 2. This, in turn, is secured to the base of the model by two 1" \times 1" angle brackets 3. A further bearing for the short rod consists of a crank bolted in the base of the model.

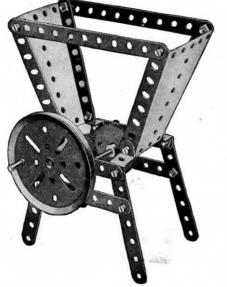
The drum is rotated from the crank handle 4, on which is mounted a $\frac{1}{4}$ " pinion engaging a 57-teeth gear wheel 5 secured to a $3\frac{1}{4}$ " rod carrying a pulley wheel 6. The latter is connected by means of a cord 7 to a similar wheel nipped to the vertical spindle of the drum. Bearings are provided for the inner ends of the crank handle and $3\frac{1}{4}$ " rod by a double angle strip bolted between the plate 8 and $5\frac{1}{4}$ " strip 9. The sighting box 10 is built up from a framework of strips and is secured by means of a crank 11 to a short vertical rod rigidly mounted in the boss of the $1\frac{1}{4}$ " pulley 12. The four sides of the framework 10 are covered with some black material; stiff black paper suitable for this purpose may be obtained from any stationers. The drum is enclosed in the same way, but the covering paper should be cut in a strip measuring $12\frac{1}{4}$ " $\times 4\frac{1}{4}$ " and pierced with slots spaced $1\frac{1}{4}$ " apart (from centre to centre) so that they fall exactly between the upright $5\frac{1}{4}$ " strips. The slots should measure $1\frac{1}{4}$ " $\times 4$ ".

The type of drawing suitable for use in this model is shown in Fig. 310a, and the dimensions indicated therein should be followed carefully. No doubt Meccano boys will be able to devise numerous amusing pictures of a similar kind for themselves. The strip of stout white paper carrying the sketches is inserted in the bottom of the drum, as indicated at 13. The model is now ready for operation. Placing the frame 10 over the eyes, the line of vision is directed through the narrow end, where the strips are held apart by means of double brackets, and through the slots in the drum. The latter should be rotated rapidly by operating the handle 4, and as it revolves, the little dog shown in Fig. 310A will be seen jumping over the fence with a most realistic and amusing action.

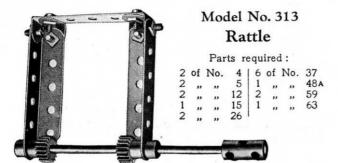


Model No. 311 Coffee Grinder

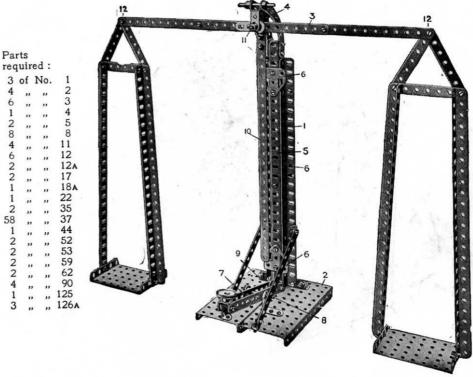




	arts qui	red:	
2	of	No.	2
6	,,	,,	3
2	,,	,,	4
2	,,,	**	16
1	,,	,,	19в
1	,,	,,	26
1	,,	**	27A
16	"	"	37
2	,,	,,	54
3	,,	,,	59
1	,,	,,	115
4	1 20		125

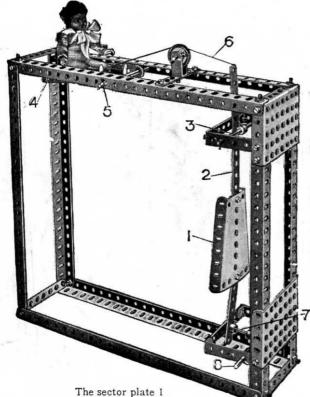


Model No. 312 Demonstration Scales



The only feature of this model which needs description is the standard, which is built up of two angle girders 1 bolted to the base 2 by angle brackets and spaced apart at the top by a 21" strip obliquely disposed. The balance lever 3 is pivotally carried in curved strips 4 bolted to the top of two angle girders 5 sliding between the girders 1. The girders 5 are themselves bolted together and in order to guide them as they slide vertically flat trunnions 6 are bolted at the front and rear. The balance is raised by depressing the lever 8 pivoted at 9 and pivotally connected at 11 to the vertically sliding girders 5. The indicator 10 is bolted to a crank at the rear, the boss of which is fitted on the pivot rod 11. The connections at 12 are lock-nutted to allow free action.

Model No. 314 Drop the Nigger



1 of No. 1 6 ,, 3 8 ,, 8 1 ,, 12 3 ,, 15A 1 ,, 17

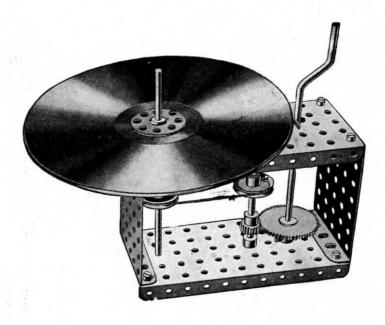
Parts required:

" " 35 " " 37 " " 44 " " 48A " " 53 " " 54 is a target which, when hit, allows the nigger to be dropped.

The plate 1 is carried on the strip 2 pivoted at 3, and the weight of the nigger supported on another sector plate 4 pivoted at 5 by means of the cord 6 keeps the lower end of the strip 2 hard against a short rod 7 pivoted

sector plate 4 pivoted at 5 by means of the cord 6 keeps the lower end of the strip 2 hard against a short rod 7 pivoted at 8. When the target is hit and knocked back the rod 7 is released and falls about its pivot, allowing the sector plate 4 with the nigger to drop.

Model No. 315 Newton's Disc

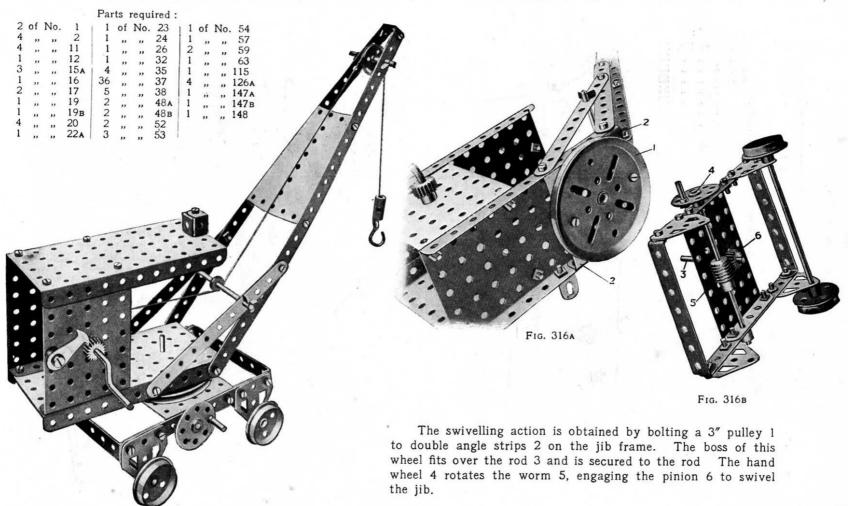


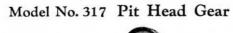
Parts required:

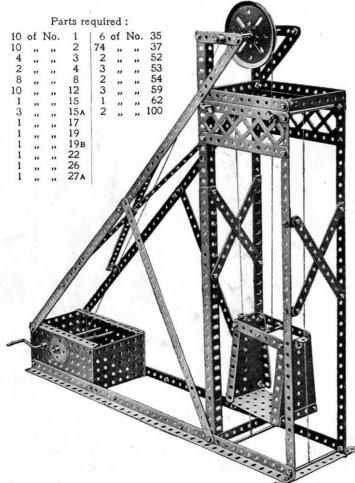
1	of	No.	15	1	of	No.	24	8	of	No.	37
1	,,	,,,	15A	1	,,	,,	26	2	,,	,,	52
1	,,	,,	19	1	,,	.,,	27A	2	,,	,,	53
2	,,	,,	22	2	,,	.,,	35	4	,,		59

This is a model to show that white light is made up of the three primary colours—red, yellow. blue. Sectors of these three colours are mounted or painted on the disc, which, if then quickly rotated, shows as white.

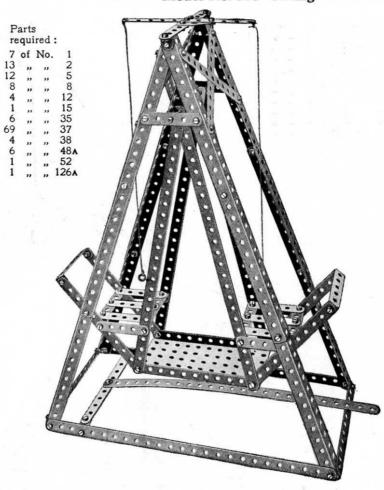
Model No. 316 Railway Breakdown Crane



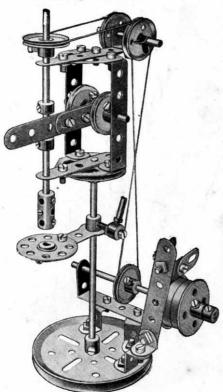




Model No. 318 Swing



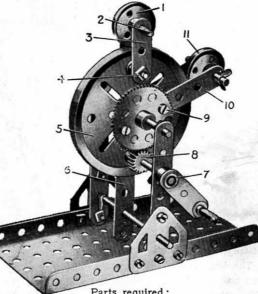
Model No. 319 **Drilling Machine**



Parts required:

					11 12	104	unca				
2	of	No.	4	2	of	No.	20	2	of	No.	48A
2	,,	,,	5	1	,,,	,,	21	5	,,	,,	59
2	,,	,,	10	4	,,	,,	22	2	,,	,,	62
2	,,	,,	11	2	,,	,,	22A	1	,,	,,	63
1	.,	.,	12	1	,,	,,	24	1	,,	,,	111
1	,,	,,	15	2	,,	,,	35	1	,,	,,	115
2	,,	,,	15a	21	,,	,,	37	3	,,	,,	125
2	,,	,,	17	1	,,	,,	44	2	,,	,,	126A
1	.,	,,	19 _B	1	,,	,,	46				

Model No. 320 Strip-Bending Machine

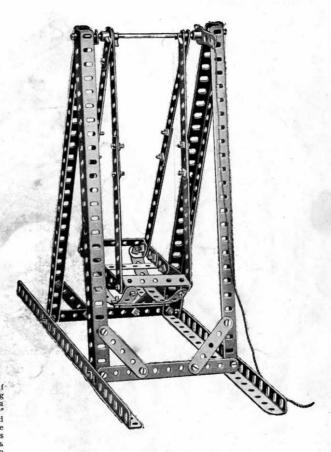


Parts required:

1	of	No.	2	12	of	No.	18в	10	of	No.	38	
2	,,	,,	3	1	,,	,,	19 _B	1	,,	,,	52	
1	,,	,,	4	2	,,	,,	22A	4	,,	,,	59	
1	,,	,,	5	1	,,	,,	26	1	,,	,,	62	
1	,,	,,	6A	1	,,	,,	27 A	1	,,	,,	111	
2	,,	,,	16	6	,,	,,	35	1	,,	,,	115	
1	,,	,,	17	10	,,	,,	37	12	,,	,,	126A	

This model represents a device for bending bars or rods of metal to circular form, and may be put to practical purpose in shaping strips of tin or similar material. A loose pulley 1 is spaced by a collar and washers in the centre of the short rod 2 journalled in a 1½" strip 3. The latter is secured to the end of a ½" bolt 4 and spaced away from the 3" pulley 5 by means of a number of washers. The opposite end of the rod is supported by a 5½" strip 6. The handle 7 is secured to a 3½" rod carrying a ½" pinion 8. This engages with a 57-teeth gear wheel 9 mounted on another 3½" rod which is free to revolve in the boss of the wheel 5. The gear wheel 9 arries a 3" strip 10 forming one of the bearings for a short rod carrying a second 1" loose pulley 11. The latter is also spaced by means of a collar and washers so that it lies immediately above the groove of the pulley wheel 5. The material to be shaped is passed between the two loose pulleys at the top of the wheel 5, and on rotation of the handle 7 the arm 10 is caused to move downward, so forcing the handle 7 the arm 10 is caused to move downward, so forcing the object to the same curvature as the circumference of the wheel.

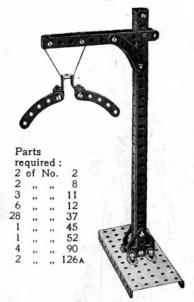
Model No. 321 Swing

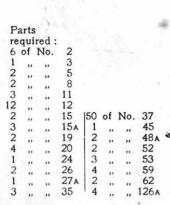


Parts required:

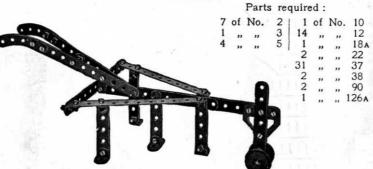
12	of	No.	2	1 1	of	No.	15
9	,,	,,	5	2	,,	,,	35
6	,,	,,	8	43	,,	,,	37
2	,,	,,	11	4	,,	,,	48
4	.,	,,	12	2	,,	,,	62

Model No. 322 Railway Gauge



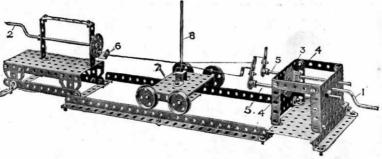


Model No. 323 Scarifier

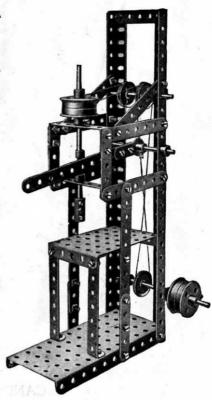


Model No. 325 Wire Rope Maker

The strands are twisted from both ends by the handles 1 and 2 of the fixed parts. The handle 1 rotates through a large gear wheel 3 two pinions 4 on the rods 5 carrying cranks to which the strands are attached. The other ends of the strands are connected to a double bent strip 6 on a bush wheel which is rotated in the opposite direction by a crank handle 2. The carriage 7 runs on rails and the vertical rod 8 is kept just at the formation of the twisted rope and so controls the tightness of the twist.



Model No. 324 Boring Machine

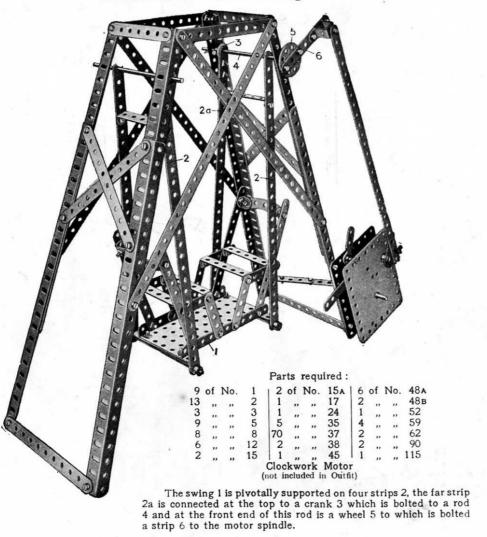


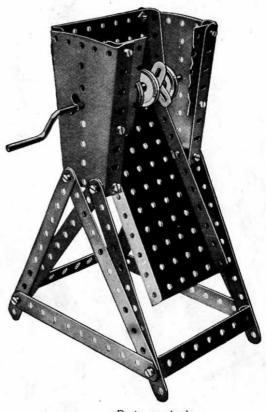
Parts	required	

					-	.cqu	i.cu.				
Š	of	No.	2	14	of	No.	20	2	of	No.	48B
	,,	,,	3	1	,,	,,	22	1	,,	,,	52
١	,,	,,	5	2	,,	,,	22A	1	,,		53
	,,	.,	8	3	.,,	,,	35	4	,,	**	59
	,,		11	38	,,	,,	37	1	-,,	,,	62
	,,	,,	15	1	,,	,,	46	1	,,	,,	63
	,,	,,	16	2	,,	,,	48A				

Model No. 326 Lawn Swing

Model No. 327 Oil Cake Chopper





Parts required:

10 of No. 2 2 of No. 35

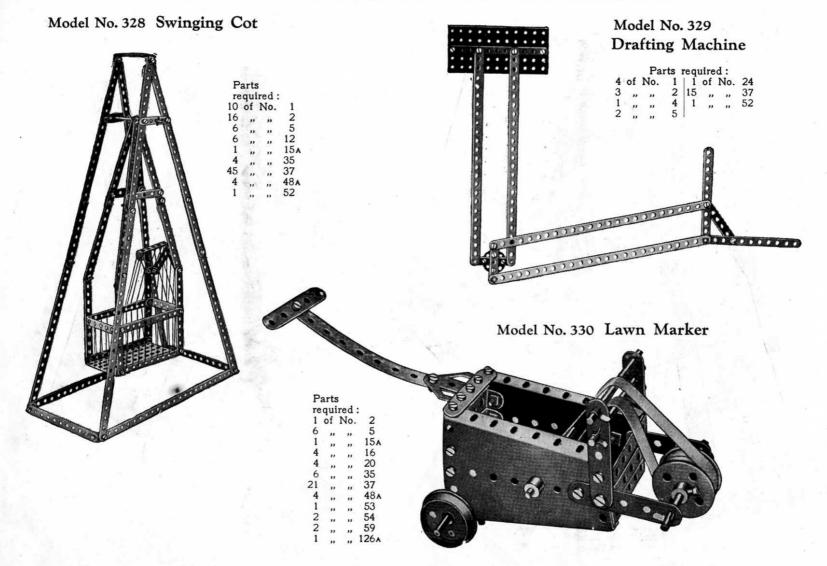
4 ,, ,, 10 20 ,, ,, 37

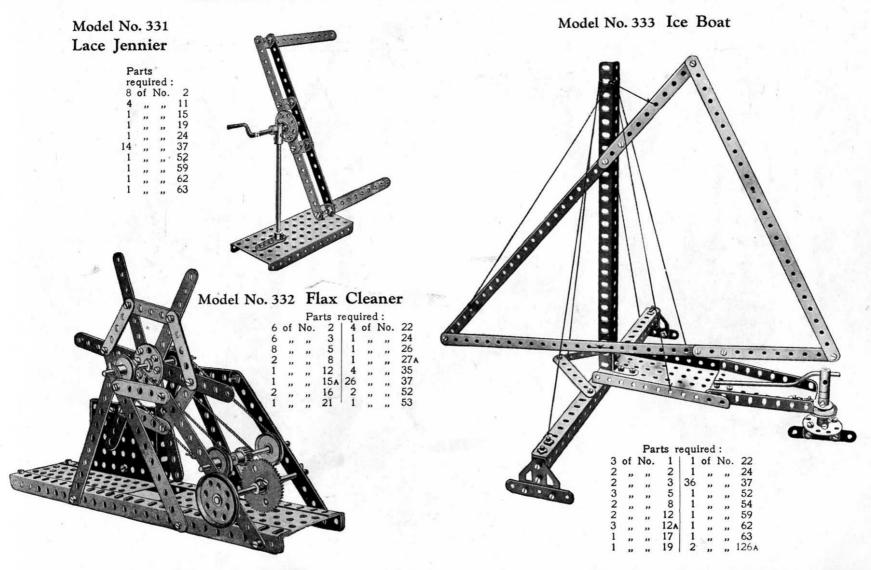
2 ,, ,, 12 2 ,, ,, 48B

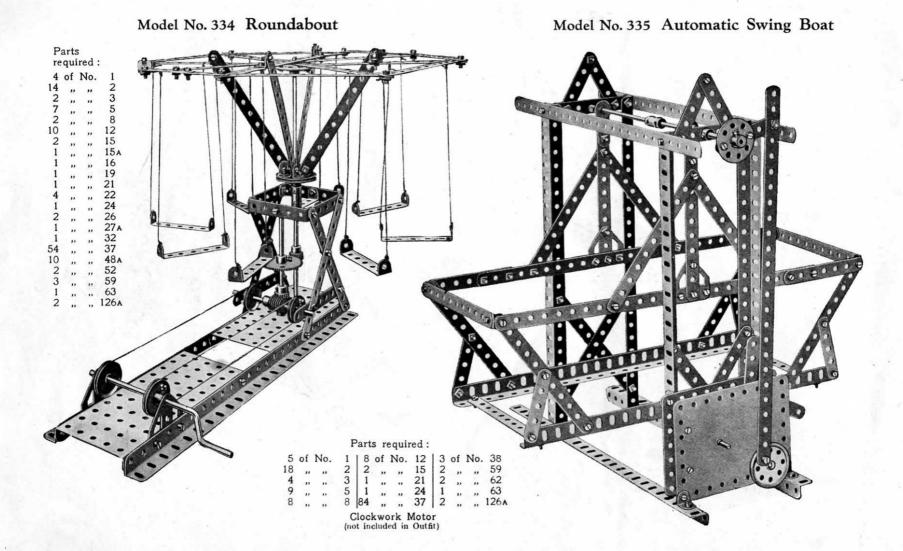
1 ,, ,, 19 1 ,, ,, 52

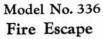
4 ,, ,, 22 2 ,, ,, 53

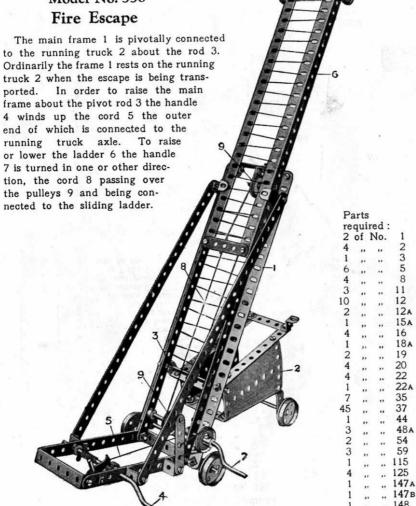
2 of No 54





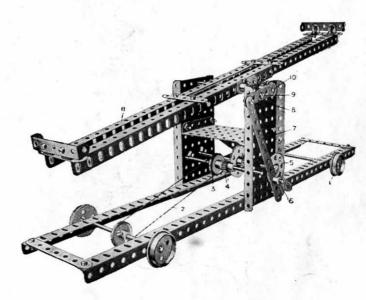






Model No. 337 Actuated See-Saw

The sea-sawing is actuated by the travelling action of the wheels 1. The spindle of the wheels is connected by the cord 2 to the pulley 3 on the spindle of the pinion 4 which drives a gear wheel on the spindle of the bush wheel 5. A threaded pin 6 on this wheel engages the strip 7 coupled to a lever strip 8 pivoted at 9 which rocks the pivot rod 10 of the see-saw 11.



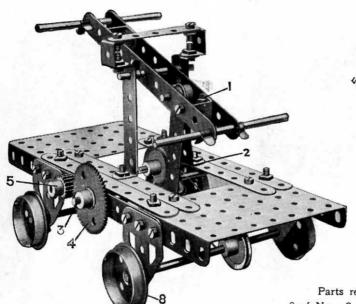
Parts required:

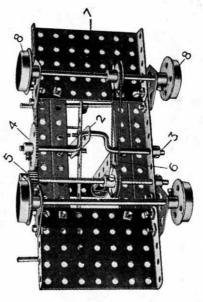
						.040					
3	of	No.	2	4	of	No.	20	2	of	No.	48A
2		,,	3	2	,,	,,	22	2	,,	,,	52
5 8	,,	,,	5	1	,,	,,	24	1	,,	,,	53
8	,,		8	1	,,	**	26	3	,,	.,	59
4		,,	12	1	,,	,,	27 A	2		,,	62
3	,,	,,	15	4	,,	,,	35	1	,,	,,	115
3	,,	. ,,	15A	36	,,	"	37				

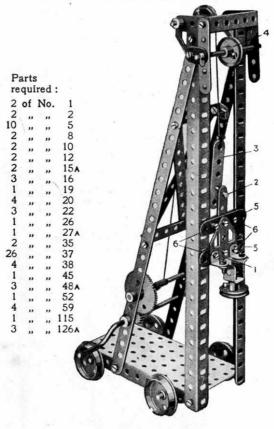
Model No. 339 Pile Driver

Model No. 338 Hand Trolley

The trolley is caused to travel by working the rocking lever 1 which is connected by a strip 2 to a crank shaft 3 a gear wheel 4 which meshes a pinion 5 on a rod coupled by a cord 6 to an axle rod 7 of the travelling wheels 8.

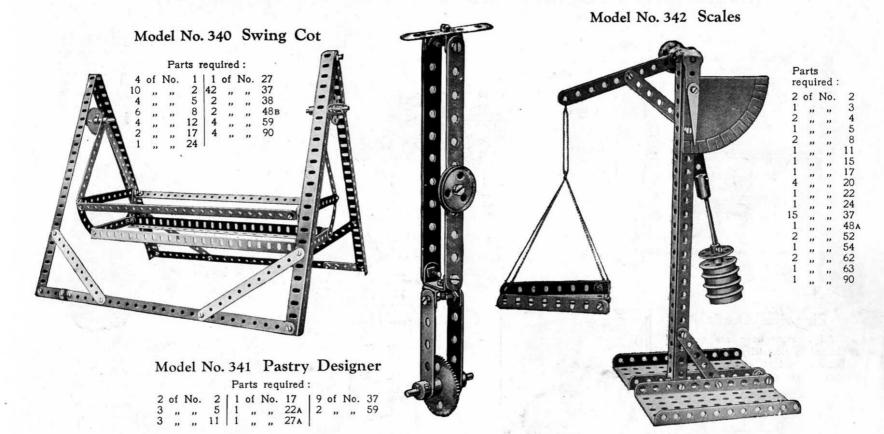






Parts required:

The driving head 1 is raised by means of a threaded pin 2 on two 2½" strips 3, the pin engaging in the first hole of the driving head. As the head is raised, the strip 3 makes contact with a pulley 4 and the latter pushes the strip rearwardly, disengaging the pin from the hole on the driving head, permitting it to fall. The cross strips 5 of the driving head are duplicated behind, spacing washers being inserted between them on the bolts 6 to allow free movement up and down the guide girders.



HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 3. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 3A Accessory Outfit, the price of which will be found in the List at the end of the Manual.

MECCANO ACCESSORY OUTFITS AND MOTORS



Meccano Accessory Outfits

Our illustration shows one of the Meccano Accessory Outfits. As has already been explained, these Outfits connect the main Outfits from No. 00 to No. 7, making it possible for a boy who commences with one of the earlier Outfits to build up his equipment by easy stages, until he is the possessor of parts that cover the entire system.

Electrical Outfit

All Meccano boys are fascinated by electricity and never become tired of learning more about this wonderful subject. The application of electricity to the Meccano system adds a further and wonderful charm, and the joys of model-building are now increased by the fascinating pastime of carrying out delightful electrical experiments.

The Meccano Electrical Outfit contains a number of specially designed electrical parts which

designed electrical parts which may be used in conjunction with any of the regular Outfits.



Electric Motor No. 1

The 4-volt Motor is specially designed to build into Meccano models. It may be run by a 4-volt Accumulator, or, by employing a suitable transformer, direct from the main. It is fitted with reversing motion, provided with stopping and starting controls, and the gearing is interchangeable.

Electric Motor No. 2 (100-250-Volt AC or DC)

This Electric Motor may be employed for any purpose for which a small motor is suitable, but it is specially adapted for driving Meccano models. The side plates are perforated with standard equidistant holes, thus allowing the motor to be built into any Meccano model. The motor is specially designed for connection with the electric-light main. It is supplied for 100-120-volts or 200-250-volts (alternating or direct), and is fitted with 6ft. length of flex, an insulated plug for connection with the motor terminals, and an adapter for connection with an ordinary lamp socket.

A suitable resistance is required when the motor is run with a 200-250-volt current, and this is supplied by connecting a 60-watt lamp in series with the motor. A board on which are mounted a suitable lamp-holder (lamp not included) and a switch is provided separately.



AVOLTATION OF THE PROPERTY OF

4-Volt Accumulators

These new and excellent types of Accumulators have been adapted to drive the Electric Motor No. 1. They have been subjected to the severest tests and have proved themselves to be the most suitable accumulators for use with any type of electric motor. They are nonspillable, have remarkable recuperative powers, and will continue to supply current when nominally exhausted.

Clockwork Motor

How splendid it is, after spending hours in building a model, to be able to set it in motion with a motor, just as do real engineers! The Meccano Clockwork Motor is specially made for this purpose and is a fine piece of mechanism—simple, powerful, and reliable. It is fitted with starting and stopping levers, and has a reversing movement.

For prices of the above see price list at end of Manual

HORNBY CLOCK TRAINS

HORNBY TRAINS are manufactured by Meccano Limited, and they are made from the finest materials obtainable. A most valuable feature of the Locos is that all the parts are standardised and any lost or damaged units may be replaced with new ones.

Each Train is a beautiful piece of workmanship with perfect mechanism, ensuring smooth running. A guarantee of efficiency is furnished with each Loco.

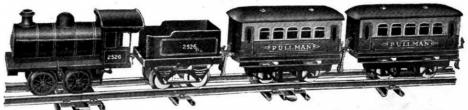
A HORNBY TRAIN LASTS FOR EVER!

Series M, No. 1 Passenger Set

This set contains Loco, Tender, two Pullman Coaches and set of Rails. One of the latter is a brake rail by means of which the train may be braked from the track. Richly coloured and well finished; fitted with brake mechanism; non-reversing. Gauge 0.

Series M, No. 2 Passenger Set

Similar in every way to the above excepting that it has three Pullman Coaches instead of two, and additional rails.



M. No. 1 PASSENGER SET



No. 1 PASSENGER SET

No. 2 Pullman Set

This set includes Loco and Tender of a larger type, measuring 17 in. in length. The Coaches are beautiful both in colour and finish. Each set includes Loco, Tender, and two Pullman Coaches, with set of Rails making a 4 ft. diameter circle. The rails include one brake rail by means of which the train may be both braked and reversed from the track. In colours to represent the principal British Railway Companies' rolling stock. The Loco is fitted with reversing gear and brake mechanism. Gauge 0.

No. 2 Goods Set

This set contains Loco, Tender, and Rails as in No. 2 Pullman Set, and two Wagons. Gauge 0.

No. 1 Passenger Set

Each set contains Loco, Tender, and two Coaches, with Rails to form either a circle 2 ft. in diameter or an oval 2 ft. in width by 2 ft. 10 in. in length. One of the curved rails is a brake rail by means of which the train may be braked from the track. The Loco is fitted with reversing gear and brake mechanism. In colours to represent the principal British Railway Companies' rolling stock. The doors of the Coaches open. Gauge 0.

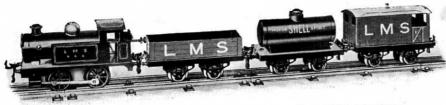
No. 1 Goods Set

This set is similar in every way to No. 1 Passenger Set, except that it contains one Wagon in place of Coaches. Gauge 0.



HORNBY CLOCK TRAINS

The following Hornby Tank Goods and Passenger Sets are very realistic models and are valuable additions to the popular range of Hornby Trains. Each set contains one of the tamous Hornby Tank Locos with attractive rolling stock.



No. 1 TANK GOODS SET

No. 1 Tank Goods Set

This set contains a No. 1 Hornby Tank Loco, Hornby Wagon, Petrol Tank Wagon. Brake Van and set of Rails to form either a circle 2 ft. in diameter or an oval 2 ft. in width by 2 ft. 10 in. in length. One of the curved rails is a brake rail by means of which the train may be braked from the track.

Gauge 0, in colours to represent the principal British Railway Companies' rolling stock. The Loco is fitted with reversing gear and brake mechanism.

No. 2 Tank Goods Set

The famous No. 2 Hornby Tank Loco is included in this set. It is 10½ in. in length and is fitted at both ends with a four-wheeled bogie. In addition the set includes a Hornby Wagon, a Petrol Tank Wagon, a No. 1 Cattle Truck and a Brake Van, with a set of Rails to form a circle 4 ft. in diameter. The rails include one brake rail by means of which the train may be both braked and reversed from the track.

Gauge 0, in colours to represent the principal British Railway Companies' rolling stock. The Loco is fitted with reversing gear and brake mechanism.

No. 2 Tank Passenger Set

This set contains a No. 2 Hornby Tank Loco and Rails as in the No. 2 Goods Set, but three Passenger Coaches and one Guard's Van are included in place of the Wagons and Vans.

Gauge 0, in colours to represent the principal British Railway Companies' rolling stock.



No. 2 TANK PASSENGER SET

The Riviera "Blue" Train Set

These splendid Train Sets are models of the famous express that runs regularly between Calais and the Mediterranean Coast. The Loco is coloured brown with yellow lining and the Coaches are coloured blue with white roofs. Two types are available, one with Clockwork Loco and the other with Electric Loco.



For prices of the above see price list at end of Manual.

ROLLING STOCK AND ACCESSORIES

(HORNBY SERIES)



BRAKE VAN Finished in grey, with opening doors. Price 6/6



TELEGRAPH POLE

Price 4/6

SIGNAL

Price 4/9

*No. 1 LUGGAGE VAN With opening doors. Price 6/6



SECCOTINE WAGON Beautifully finished in blue, with opening doors. Price 6/6



CRAWFORD'S BISCUIT

Finished in red, with opening doors ... Price 6/6



HYDRAULIC BUFFER STOP Price 10/6



SPRING BUFFER STOP Price 2/3

DOUBLE LAMP STANDARD

Four-volt bulbs

may be fitted into

the globes.

Price 7/-

FOOTBRIDGE No. 1. With detachable Signals Price 12/6

No. 2. Without Signals



ISLAND PLATFORM

Length 321-in., height 61-in., width 3-in. The ramps at either end are detachable, and if desired the platform may be connected to the main station. Attractively coloured in green, blue and white. Price 12/6

THE Hornby system consists of a complete range of Rolling-Stock, Train Accessories, and Rails, Points and Crossings, with which the most elaborate model railway may be constructed. Every component in the Hornby Series is well designed and carefully modelled on its prototype in real life.

Any boy may gradually build up a complete miniature railway by making use from time to time of the Items included in the Hornby Series.



Realistic and finished in colours ... Price 15/-



*REFRIGERATOR VAN

Enamelled in white, with

with double doors. Suitable for 2-ft. radius rails only ... Price 10/6



*No. 2 CATTLE TRUCK

Splendid model fitted with double doors. Suitable for 2-ft. radius ... Price 10/6 rails only

No. 2 TIMBER WAGON



*TROLLEY WAGON

Finished in grey and red. Suitable for 2-ft. radius rails only ... Price 9/-



JUNCTION SIGNAL

Signal arms operated

by levers at base. Very

realistic model stand-

ing 14-in. in height.

Price 11/6

LATTICE GIRDER BRIDGE

Constructional type. Strong and well proportioned. Price 17/6



*BREAKDOWN VAN AND CRANE

Beautifully coloured in grey and black, with opening doors. Suitable for 2-ft. radius rails only ... Price 11/6



RAILWAY STATION. Excellent model, beautifully designed and finished. Dimensions: Length 2-ft. 9-in., breadth 6-in., height 7-in. Price 22/6

There are now over 60 items of Rolling Stock and Accessories in the Hornby Series, some of which are illustrated and described above. Send for a complete illustrated price list.

* Lettered L.M.S., L.N.E.R. or G.W.

Presentation Outfit

Presentation Outfit

Outfit (Carton) ..

Meccano Price List

ACCESSORY OUTFITS MECCANO OUTFITS OOA Meccano Outfit ... 00 Meccano Outfit 5/-7/6 12/6 13/-26/ 23/-20/ 35/-75 120/-60/-300/-80/-10/6 (Carton) Meccano Clockwork Motor

Meccano Electric Motor No. 1 (4-Volt)

Meccano Accumulator, 4-Volt 8 amp.

Meccano Electrical Outfit X2

Lamp Board (with lamp-holder and switch)

27/6

70/-

30/-

42/-

" 2 (100-120 or 200-250-Volt)

4-Volt 20 amp. ..

125/-

155/-

210/-

540/-

Hornby Train Sets Price List

Series M, N	o. 1 Passenger Set					12/6	Hornby No. 1 Tank Goods Set	40/-
,,	, 2 Passenger Set					15/6	" " 2 Tank Goods Set	70/-
	, 3 Goods Set					25/-	" 2 Tank Passenger Set	72/6
Hornby No	. 0 Goods Set					30/-	* " 2 Tank Passenger Set fitted for Hornby	
,, ,,	0 Passenger Set		••			37/6	Control	80/-
,, ,,	1 Goods Set					35/-	Metropolitan Train Set No. 2 (4-Volt Electric)	140/-
,, ,,	1 Passenger Set					42/6		
,, ,,	2 Goods Set		/			57/6	*Metropolitan Train Set No. 3 (Clockwork)	85/-
	2 Pullman Set					90/-	Riviera "Blue" Train Set No. 1 (4-Volt Electric)	127/6
75		••	••	• •		30/-	*D!-1	105/
* ,, . ,,	2 Pullman Set fit	ted for	Hornb	y Cont	trol	97/6	*Riviera "Blue" Train Set No. 2 (Clockwork)	105/-

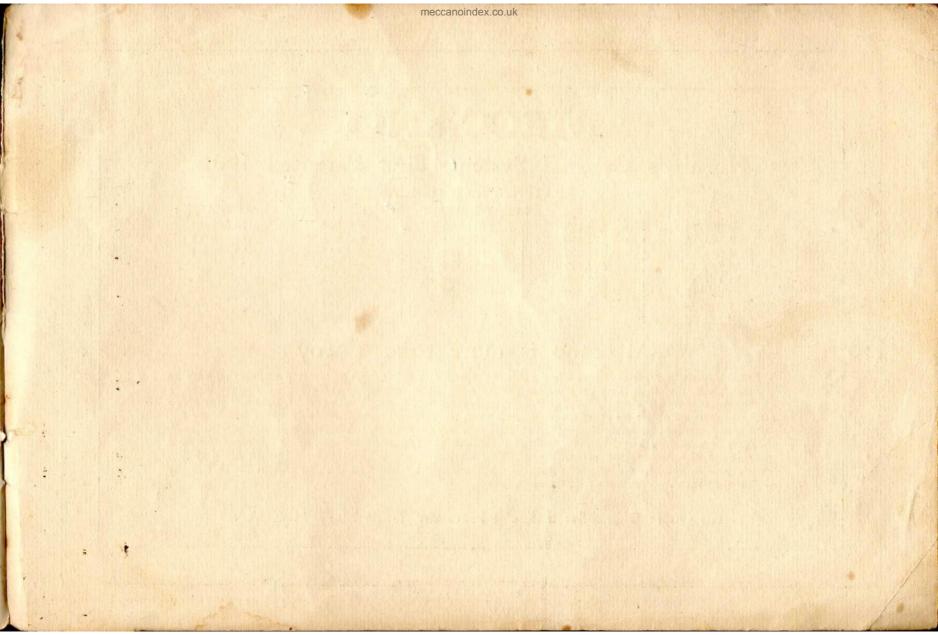
^{*}All boys who make a hobby of Hornby Miniature Railway construction will welcome the latest development—the Hornby Control System. This system enables you to manipulate the Signals and Points, and to control the starting and stopping of the train entirely by the levers in the Signal Cabin. A folder is now available entitled "The Hornby Control System" which gives full details and a copy will be sent, post free, on request.

^{*} Outfits Nos. 5, 5A and 6 are supplied in neat and well-made cardboard boxes (cartons) or in superior oak cabinets, with lock and key.

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9	8 2	204	24 4	36	54	: 1	186	9	61 <u>a</u>	201	7	9	1	16	œ	0 4	40	. 4	9	4 0	1	40	10	4	14	4	010	0 -	210	D 4	4	۱۳	0 0	, vo	010	١,	21	67	11	61	67 5											4,													_	10	210
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MECCANO

Hornby's Original System, First Patented 1901

PATENTS AND DESIGNS

		GREAT BRITAIN:	9	AUSTRALIA:
3,869/14	139,125	671,485	682,934	13,460/19
4,183/14	177,430	671,534	683,011	14,388/14
4,564/15	577,207	671,790	686,112	15,136/14 .
20,535/13	577,272	680,416	698,054	
21,117/12	648,958	682,208	699,653	
22,962/13	671,484	682,209	699,654	
7,732/25			718,731	•
7,733/25			718,404	

Meccano is more than a Toy

T is important to remember that when a boy is playing with MECCANO he is using engineering parts in miniature, and that these parts act in precisely the same way as do the corresponding engineering elements in actual practice. No other system of model construction can be correct, and other toys which attempt the same object by other methods must avail themselves of constructive elements which are not correct engineering elements. Consequently, though a boy may succeed in building playthings with them, they are merely toys and nothing else, and his mind, as regards proper mechanical construction and methods, is distorted instead of instructed. He thus learns wrong principles, and when his ambition tempts him to invent or construct more elaborate models, he will find that he cannot do so because of the deficiencies of his non-mechanical system.

No Outfit is genuine unless it bears the Trade Mark MECCANO

Mecca

MECCANO OUTFITS

No.	00	Meccano	Outfit			 	
"	0	,,	,,			 	
"	1	,,	,,,			 	 1
,,	2	,,	,,	>		 	 2
,,	3	,,	,,			 	 3
"	4	,,	,,			 ,	 6
"	5*	,,	,,	(Carto	n)	 	 8
,,	5*	,, I	Presenta	ation C	utfit	 	 12
,,	6*	" (Outfit (Carton		 	 15
,,	6*	" I	resenta	tion C	utfit	 	 21
,,	7	,,	"		,,	 	 54
							3353

^{*} Outfits Nos. 5, 5A and 6 are supplied in neat and well-

Hornby T

Series M	1, No	. 1 Passenger Set					1
,,	.,,	2 Passenger Set					1
,,	- ,,	3 Goods Set					2
Hornby	No.	0 Goods Set					3
,,	,,	0 Passenger Set					3
,,	,,	1 Goods Set					3
,,	,,	1 Passenger Set					4
,,	,,	2 Goods Set					5
,,	,,	2 Pullman Set					9
* ,, .	,,	2 Pullman Set fi	tted for	Hornby	Con	trol	9

^{*}All boys who make a hobby of Hornby Miniature Rail System. This system enables you to manipulate the Sig by the levers in the Signal Cabin. A folder is not and a copy

Important

In future Meccano accessory parts will be supplied in colours unless customers ask specially for nickelplated parts. The directions at the foot of pages 3 and 4 are not now applicable.

Revised Prices

The prices of most of the Hornby Trains, Rolling Stock and Accessories, featured at the end of this Manual, have been revised as indicated below.

Hornby	M	3	Goods	Set									23/6
	No.	0	Passer	nger Se	t						***	***	36/6
***	No.	2	Goods	Set		***							52/
99	No.	2	Pullm	an Set	·								85/
The his	No.	2	Pullm	an Set			fitte	d fo	r Ho	rnby	Con	trol	92/
	No.	1	Tank	Goods	Set	***							39/
(Access)	No.	2	Tank	Goods	Set			***					62/
	No.	2	Tank	Passen	ger	Set					***		65/
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Passen									72/

	Brake Van 5/6	Crawfords Biscuit Van	6/-
	No. 1 Luggage Van 6/-	Refrigerator Van	6/-
2000	Breakdown Van and Crane 10/6	Seccotine Van	6/-
	No. 2 Timber Wagon 5/6	Telegraph Poles Per Pair	6/6
	No. 2 Cattle Truck 9/6	Spring Bulfer Stops	1/9
	No. 2 Luggage Van 9/6	Hydraulic Buffer Stops	8/6
	Lattice Girder Bridge 16/6	Footbridge No. 1	12/-
	Signals for Footbridge per pair 4/6	Junction Signal	10/6

MECCANO LIMITED BINNS ROAD LIVERPOOL