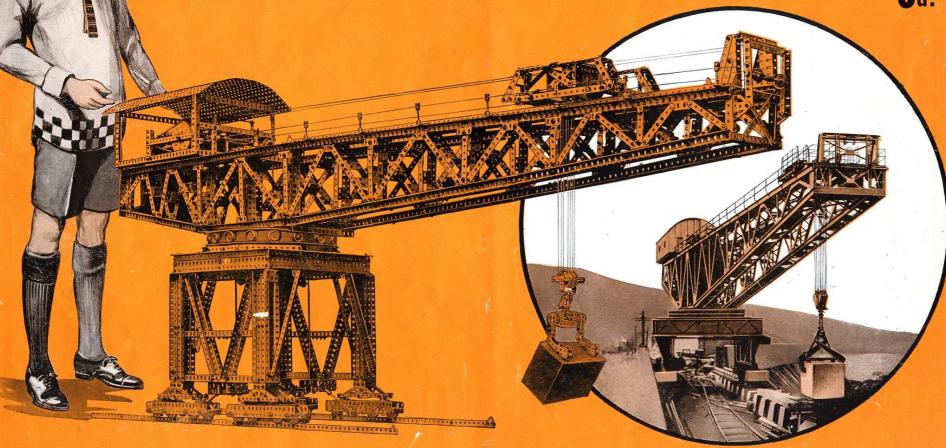


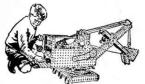
HORNBY'S ORIGINAL SYSTEM - FIRST PATENTED 1901

INSTRUCTIONS FOR OUTFIT Ba

PRICE

**3**d





# MECCANO



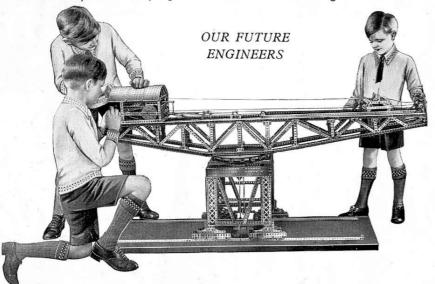
REAL ENGINEERING FOR BOYS

#### REAL ENGINEERING IN MINIATURE

The Meccano Accessory Outfit Ba converts your Outfit B into a C, and enables you to build the additional models illustrated in this Manual. As a Meccano enthusiast you will realise that our examples do not exhaust the scope of your Outfit. It is no exaggeration to say that the possibilities of Meccano are limitless—there is always something new that you can invent and build, and most models can be constructed in many alternative ways. In addition to the fascination and satisfaction obtained by building new models, you can enter them in the model-building competitions that are a regular feature of the "Meccano Magazine." These competitions are open to all Meccano boys and valuable prizes are offered in each class.

## THE "MECCANO MAGAZINE"

The "Meccano Magazine" is essential to the full enjoyment of the Meccano hobby. A section of it is devoted to the Editor's replies to his readers' enquiries; the progress of Meccano Clubs throughout the world is



reported; and full details are given of the latest model-building achievements. In addition, a wealth of informative articles on all subjects of interest to boys is included in every issue. The publishing date is the first of each month. If you are not already a reader of the "Meccano Magazine" write to the Editor for full particulars, or order a copy from your Meccano dealer or newsagent.

#### HOW TO PROGRESS

When you desire to make further progress and to build bigger and better models, it is only necessary for you to purchase an Accessory Outfit Ca which will convert your C into a D. In turn, an Accessory Outfit Da will convert your D into a E, and so you go on, until finally your ambition is realised and you are the proud possessor of an L Outfit.

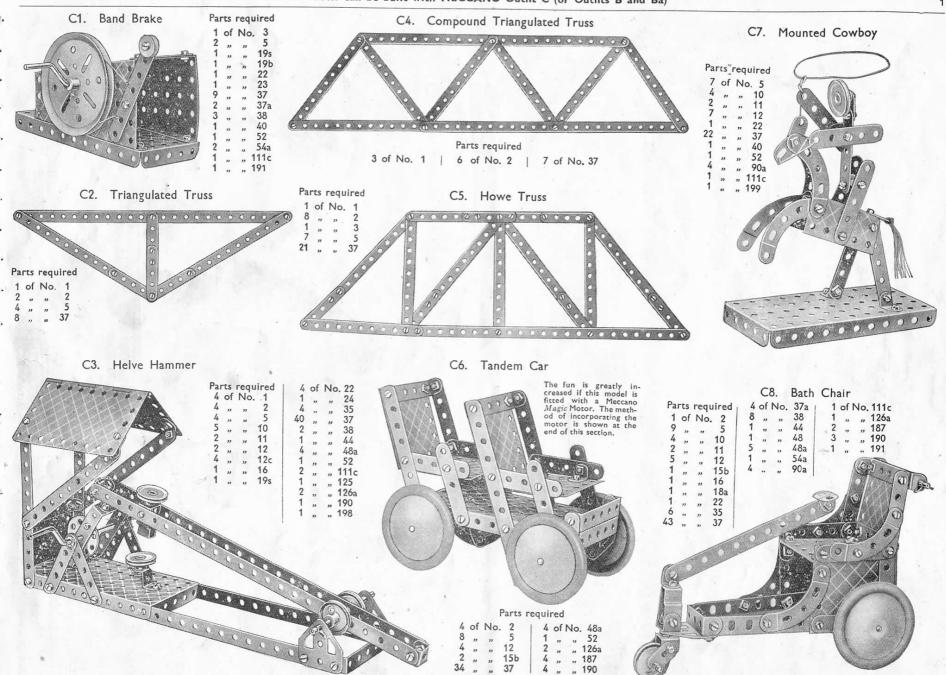
As a keen and inventive Meccano model-builder you should possess a copy of the special Manual "Meccano Standard Mechanisms," which shows a large number of real engineering mechanisms, built of Meccano parts, that can be incorporated in various models. You can obtain a copy of this Manual from your dealer, or direct from Meccano Ltd., Binns Road, Liverpool 13.

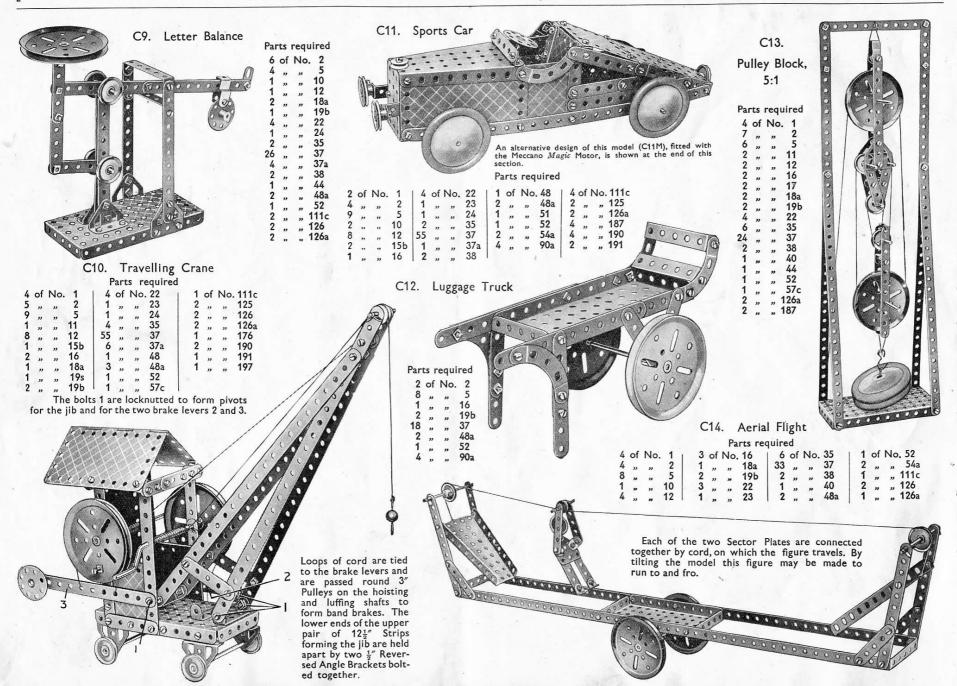
## MECCANO SERVICE

The service of Meccano does not end with selling an Outfit and an Instruction Manual. When you want to know something more about engineering than is now shown in our books, or when you strike a tough problem of any kind, write to us. We receive over 200 letters from boys every day, all the year round. Some write to us because they are in difficulty, others because they want advice on their work or pleasures, or about the choice of a career. Others, again, write to us just because they like to do so and we are glad to know that they regard us as their friends.

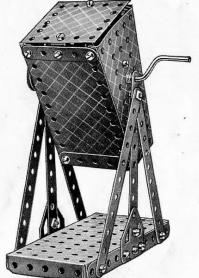
Although all kinds of queries are put to us on all manner of subjects, the main interest is, of course, engineering. The wonderful knowledge of engineering matters possessed by our staff of experts is unique. This vast store of knowledge, gained only by many years of hard-earned experience, is at your service. We want the Meccano boy of to-day to be the famous engineer of to-morrow.

IMPORTANT: - Meccano Parts can be bought separately at any time in any quantity from your Meccano dealer



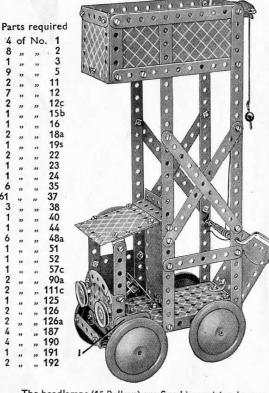


#### C15. Butter Churn



			Parts	requ	ired	d	
	of	No.	2	1 1	of	No.	48a
4	,,	,,	5	1	,,	,,	51
4	,,	,,	12	1			52
1	,,	,,	22	2			54a
1	,,	,,	24	. 2		" 1	26a
32	,,	,,	37	1	**	., 1	90

C16. Tower Wagon



The headlamps (1" Pulleys) are fixed in position by means of  $\frac{3}{8}$ " Bolts secured by the Set Screws in the bosses of the Pulleys. The front axle is carried in Flat Trunnions 1 bolted by their centre holes to the Flanged Plate.

# C18. Pneumatic Hammer

	of "	No "	uired . 1 2 3	-	3 d 2 1	of I	No "	.190 191 198					4					1
9 5 4 3	"	"	5 10 12					· ·			Ro		1				303	000
2	" "	" "	12c 15b 16					1				1						000
1 1 4	"	"	18a 19s 19b 22						000	10	0							0
1 1 6	"	"	23 24 35					A			P		0		0			
2	"	"	37 37a 40			•	4	(CE				0		XXXX		(800	000	
1 6 1	" "	" "	44 48a 51			•	1	,					000	00		200		
1 1 1	" "	"	52 90a 111c 125								00			/				
2	"		126a 176		A/L			-0	060			X.				( )	Î.E	
	- /	10	rulle	у١	'V N	eei	IS	arıv	en from		/SEO	00		, 1	A	TA V		F1-66-7

A 3" Pulley Wheel is driven from a 1" Pulley on the Crank Handle and is fitted to a Rod journalled in a  $2\frac{1}{2}$ " Strip and Double Bent Strip 2 that are bolted to a  $2\frac{1}{2}$ "  $2\frac{1}{2}$ " Flexible Plate. A Bush Wheel is fitted on the other end of the Rod and a  $2\frac{1}{2}$ " Strip is pivoted on the bolt 1 fixed by two nuts locked against opposite sides of the Bush Wheel. Cord is tied to the  $2\frac{1}{2}$ " Strip, passes over guide Pulleys, and is tied to an Anchoring Spring on the upper end of the hammer Rod.

Fig. C18a

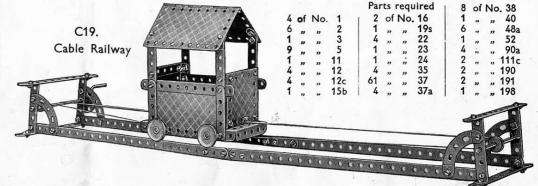


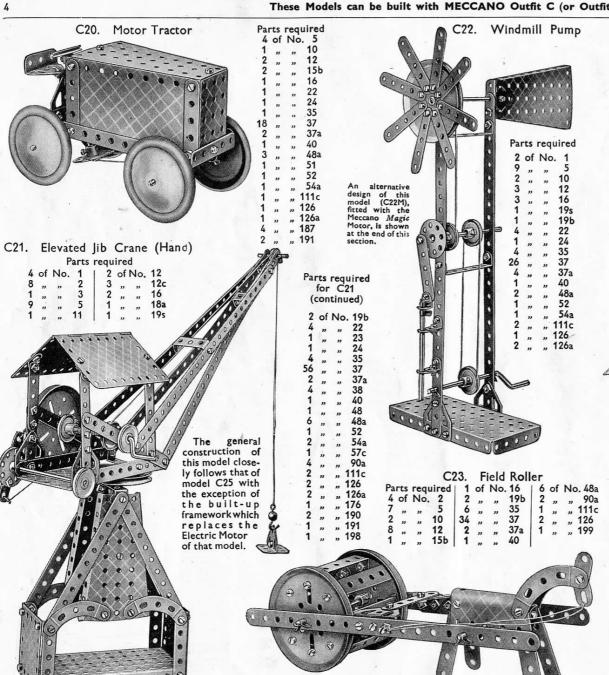
# Friction Grip Tongs

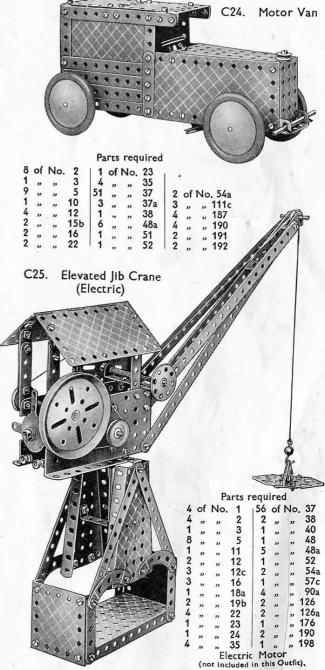
The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are locknutted, so that when the grip is raised the  $\frac{1}{2}$ " loose Pulley Wheel 4 slides upward between the  $2\frac{1}{2}$ " Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.

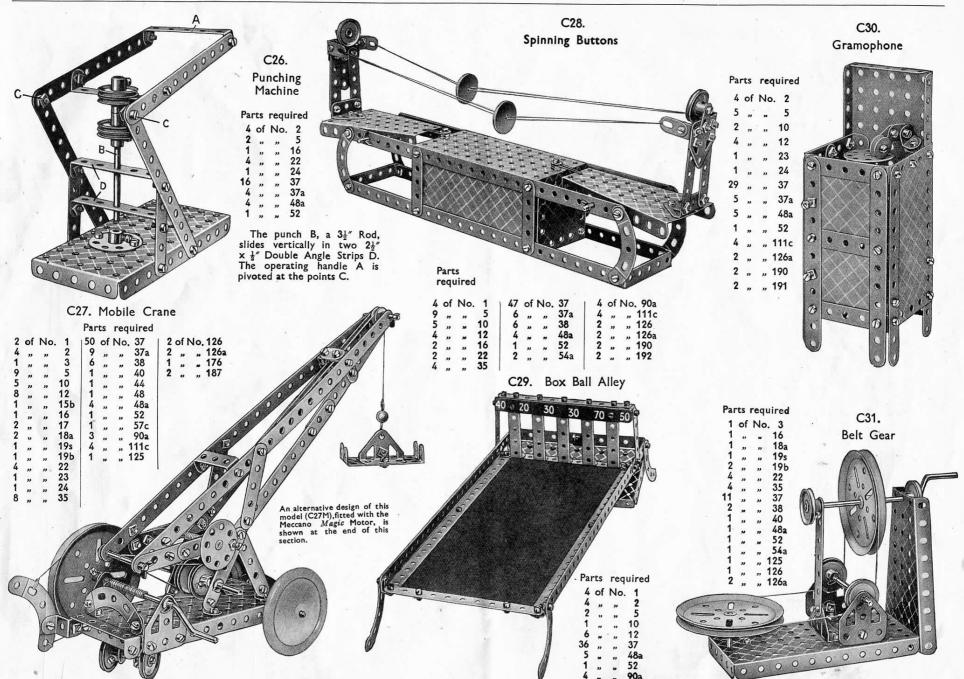
- 1	Do r	te	req	11	ire	н
	41	63	. 04	•		u

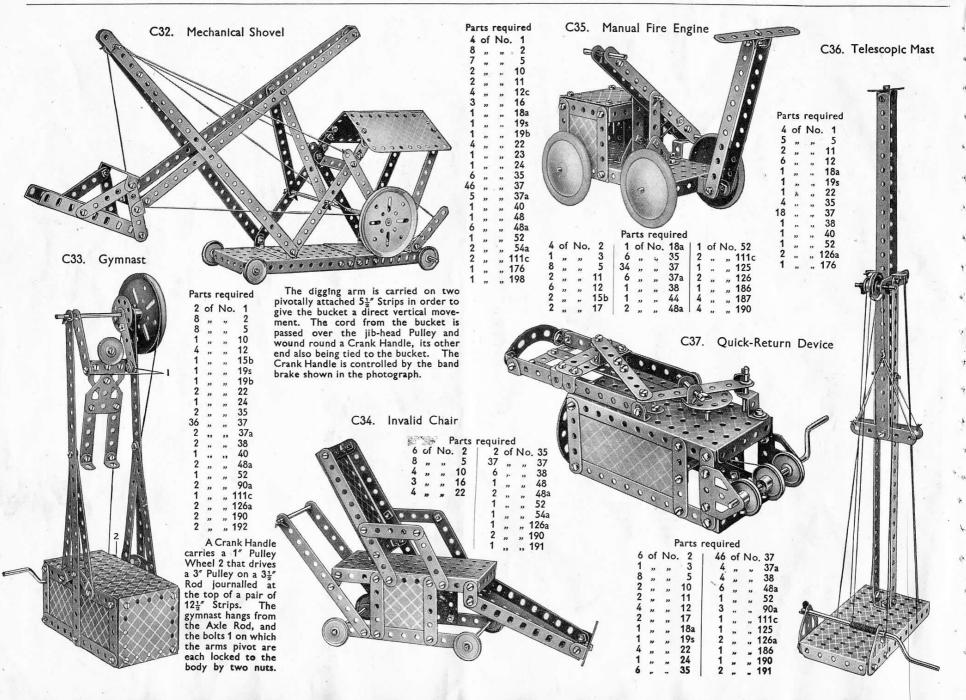
3	of	No.	2	1 1	of	No.	23
5	,,	,,	5	2	,,	,,	35
4	,,	,,	10	12	,,	,,	37
1		"	11	4	,,	.,	37
1			18a	4			38

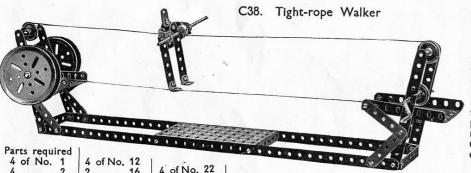












6 of No. 38

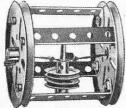
The endless cord is first passed round four 1" fast Pulleys the two ends then being attached to one foot of the figure that is supported by a 1/2 Pulley running along the upper section of the cord.

				Pa	rts	regi	uired	C4	2.	E	xten	ded	Ash	Tip
4	of	No.	1			No.		1 4	of	No	. 90a			
7	,,	,,	2	1	,,		23	3	,,	,,	111c			
1	,,	"	3	1	.,	"	24	2	,,		125			
9	1:	,,	3	8	,,	,,	35	2	,,		126a			
5	"	,,	10	66	,,		37	1	,,		176			
2	"	,,	11	5	"	1122	37a	3	,,		190	_		1
6	,,	"	12	3	,,	.,	38	2	,,		192	(E	1	
2	,,	,,	12c	1	"		40	-1			198	i		
1	,,	,,	15b	5	,,	,,	48a			35.0		10		
2	,,	,,	16	1	"	"	52							/
2	,,	"	17		"	,,		1			225			
1	"	,,	18a								/	10	/	
1	,,	,,	19s							,	/	10		
2	29	,,	19b							_			т	he c

The cord for racking the bucket carriage is passed twice round the Crank Handle. One erd is then secured to the inner end of the carriage and the other is taken round a  $\frac{1}{2}$  Pulley, at the outer end of the rails, after which it is secured to the carriage.

C39. Guillotine Parts required

No. 1



C40. Cum Bak Parts required 1 of No. 18a 2 " " 19b " " 22

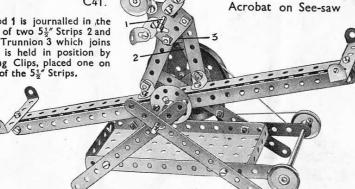
40 | 1 of No. 52 | 48a | 2 ,, ,, 54a | 1 of No. 126a

A Driving Band is doubled and stretched between the centres of the 3" Pulley Wheels. A weight, consisting of two 1" fast Pulley Wheels and a 1½" Rod, is suspended from it in the middle of the drum. When the Cum Bak is rolled along any smooth level surface, the elastic becomes twisted and stores up sufficient energy to return the drum to its starting point. If the mechanism is concealed by a thin cardboard covering, the model will cause much amusement by its mystifying behaviour

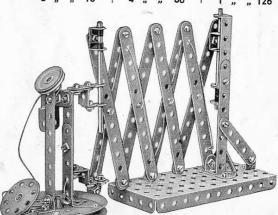


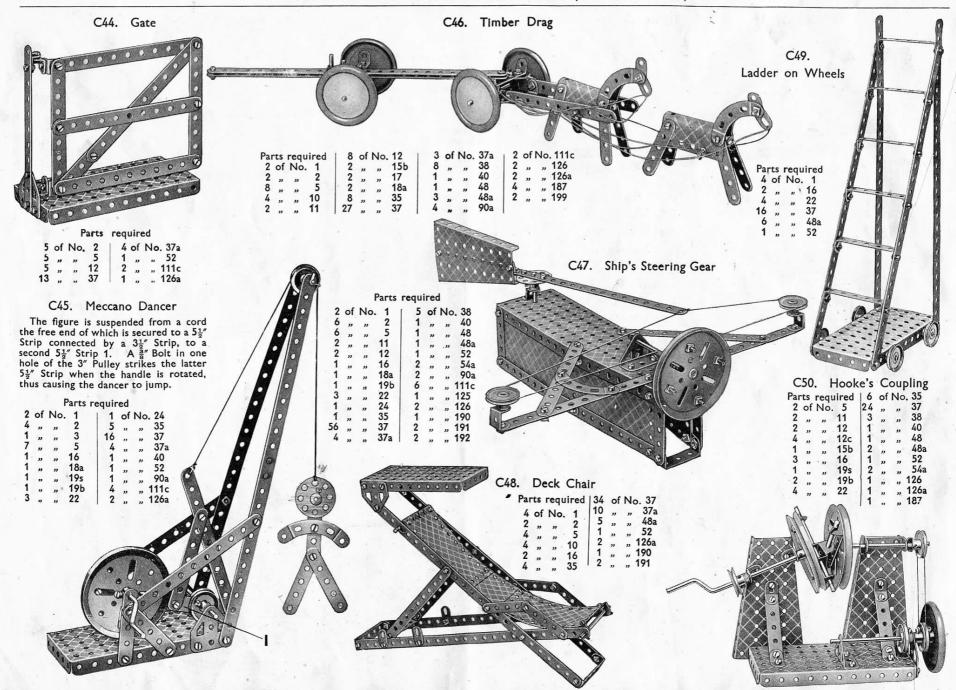
				Par	rts	req	uired			
8	of	No.	2	1			. 19b	1	of N	lo. 40
1	,,	,,	3	1	,,	,,	22	1		, 44
4	,,	,,	5	1	,,	"	24	5	2931 115	, 48a
5	,,	,,	10	4	"	,,	35	1		, 52
2	,,	,,	11	37	,,	,,	37	. 4		, 111c
8	"	"	12	20	,,	23	37a	2	,, ,	105
2	,,	,,	16	4	"	,,	38	1	,, ,	126
								-	0.000	9 128 2200

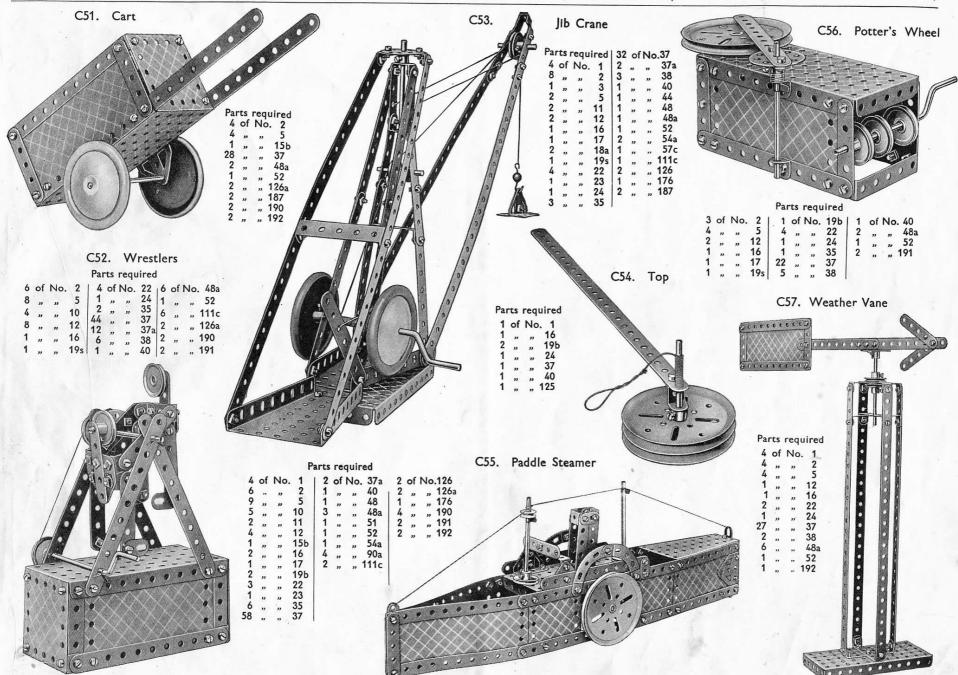
A 1" Rod 1 is journalled in the end holes of two 51 Strips 2 and in a Flat Trunnion 3 which joins them. It is held in position by two Spring Clips, placed one on each side of the 51 Strips.

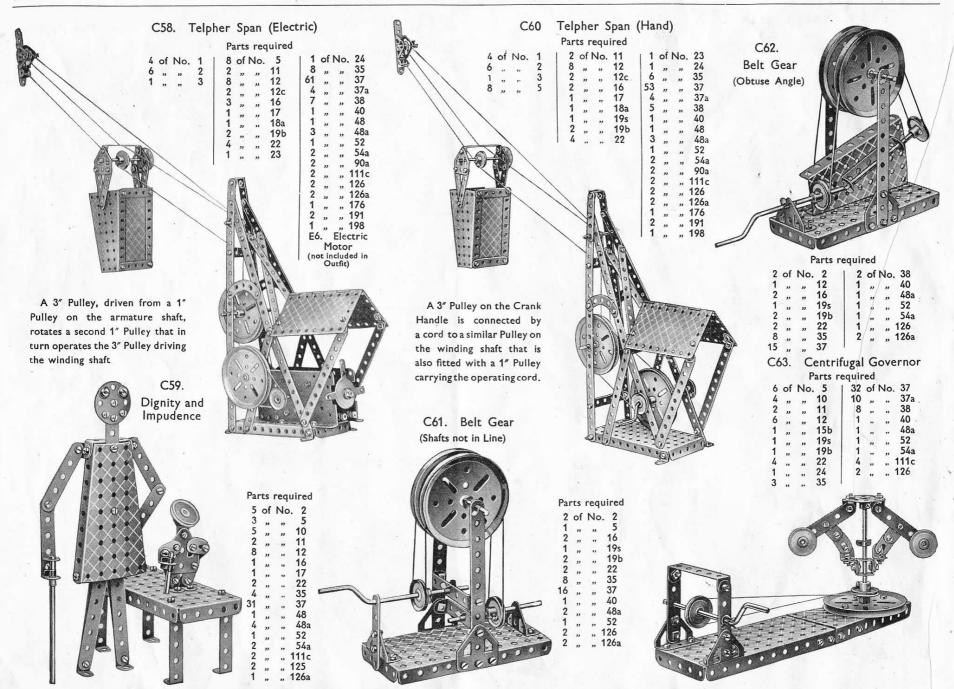


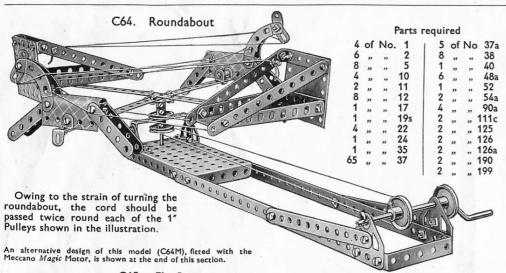
Pai	rts	required					
3	of	No					
6	,,	"	2				
4	,,	"	5				
3 2	,,	,,	10				
2	,,	"	11				
4 2 1	,,	,,	12				
2	,,	,,	16				
1	,,	,,	18a				
1	,,	,,	19b				
3	,,	,,	22				
1	,,	,,	24				
5 25	,,	,,	35				
25	,,	,,	37				
4	"	,,	37a				
2	"	,,	38				
1	"	,,	40				
2	"		48a				
1		"	52				
1	"	"	111c				
1	"	"	126a				
	29	29	1202				



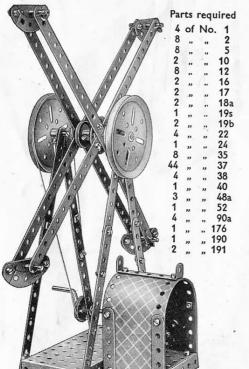








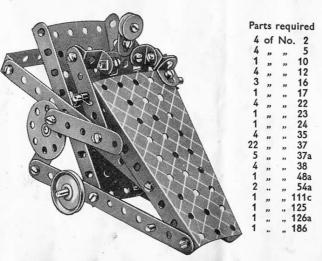
# C65. Fly Boats

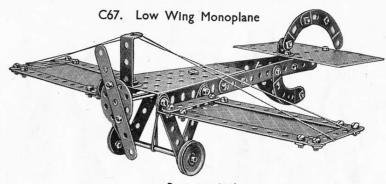


An alternative design of this model (C65M), fitted with the Meccano Magic Motor, is shown at the end of this section.

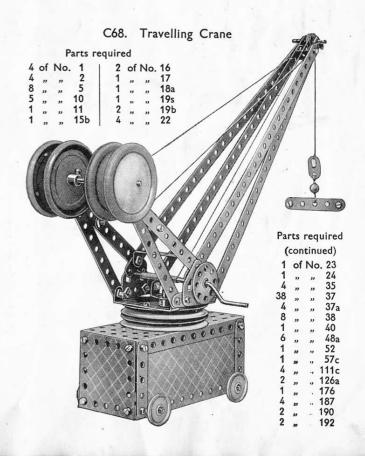
#### C66. The Invalid

When wheeled along the table the "invalid" appears to push himself energetically along. His neck is a Flat Bracket: his right (or propelling) arm consists of one Angle Bracket and one ½" Reversed Angle Bracket, and his left arm—the hand of which is bolted loosely to the chair—is formed by three Angle Brackets. The chair is composed principally of two Sector Plates and four 5½" Strips, and it runs on three 1" Pulley Wheels—one in front and two at the back. One of these, not shown, is connected by means of a Driving Band to a third 1" Pulley Wheel, the shaft of which carries also a Bush Wheel. As will be seen, a 2½" Strip is pivoted at one end to this BushWheel and at the other end to a second 2½" Strip which, rocking about an axle journalled through its centre hole is again pivoted to the invalid's hands.

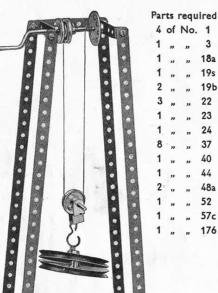




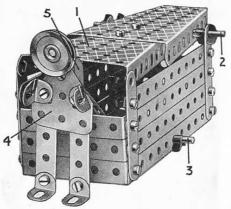
	Parts re	equired	
6 of No. 2	2 of No. 16	2 of No. 37a	4 of No. 90a
1 " " 3	2 " " 22	8 " " 38	2 " " 111c
8 " " 5	1 " " 24	1 " " 40	1 " " 186
1 ,, ,, 11	1 " " 35	1 " " 48	2 " " 190
/ 12	36 37	1 542	2 101



#### C69. Chinese Windlass



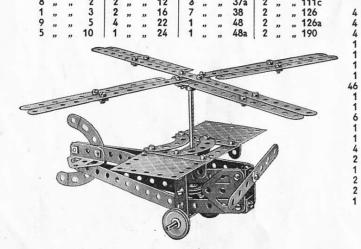
C71. Disappearing Meccanitian



Parts required
6 of No. 2
6 " " 5
1 " " 10
4 " " 12
2 " " 16
1 " " 22
6 " " 35
23 " 37
1 " 44
6 " 48a
1 " 52
2 " 54a
1 " 111c
1 " 126a
Four short
lengths of
elastic

The bottom of the box-like portion of the model consists of a  $5\frac{1}{2}'' \times 2\frac{1}{2}''$  Flanged Plate; three  $5\frac{1}{2}''$  Strips bolted to upright  $2\frac{1}{2}''$  Strips form each side and each end consists of two  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips. The lid 1, which is mounted pivotally on an Axle Rod 2, consists of two Sector Plates bolted together. Elastic bands are tied to the sides of these Plates and connected to Rod 3 passed through the bottom of the box. The "Meccanitian" 4 also is connected to this Rod by pieces of elastic. On pressing the end of the rear Sector Plate the lid opens sufficiently to allow the figure to be drawn inside and then snaps back into place. A Cranked Bent Strip 5 is bolted at the back of the figure and rests against the edge of the Sector Plate.

## C72. Well Windlass



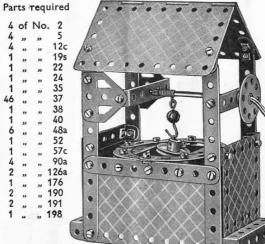
C70. Autogiro

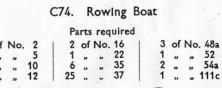
Parts required

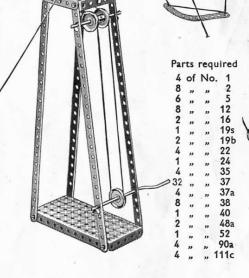
33 of No. 37

4 of No. 90a

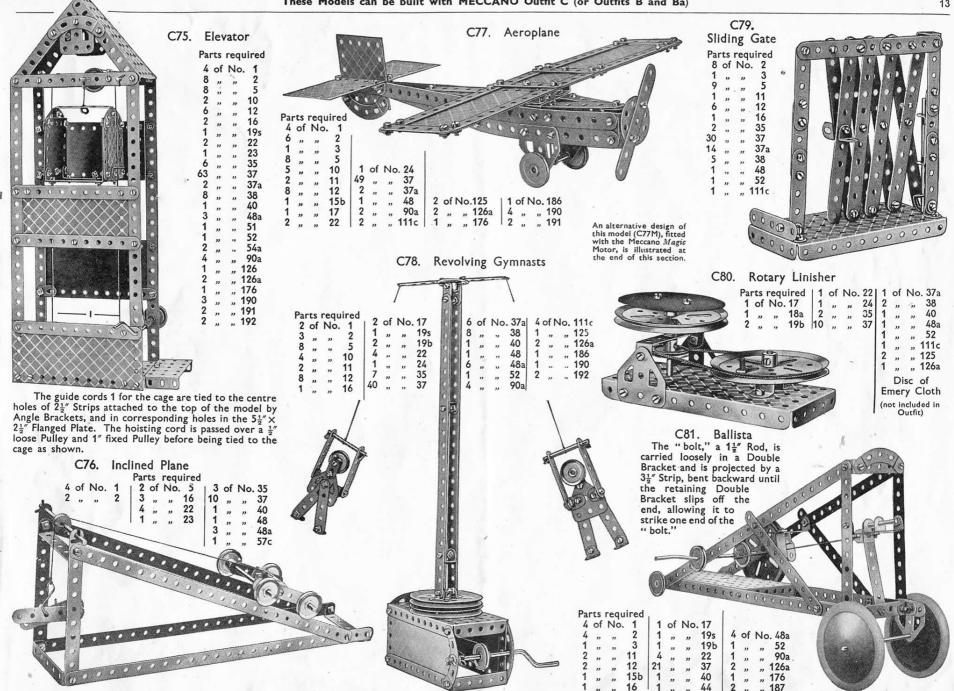
2 of No. 11

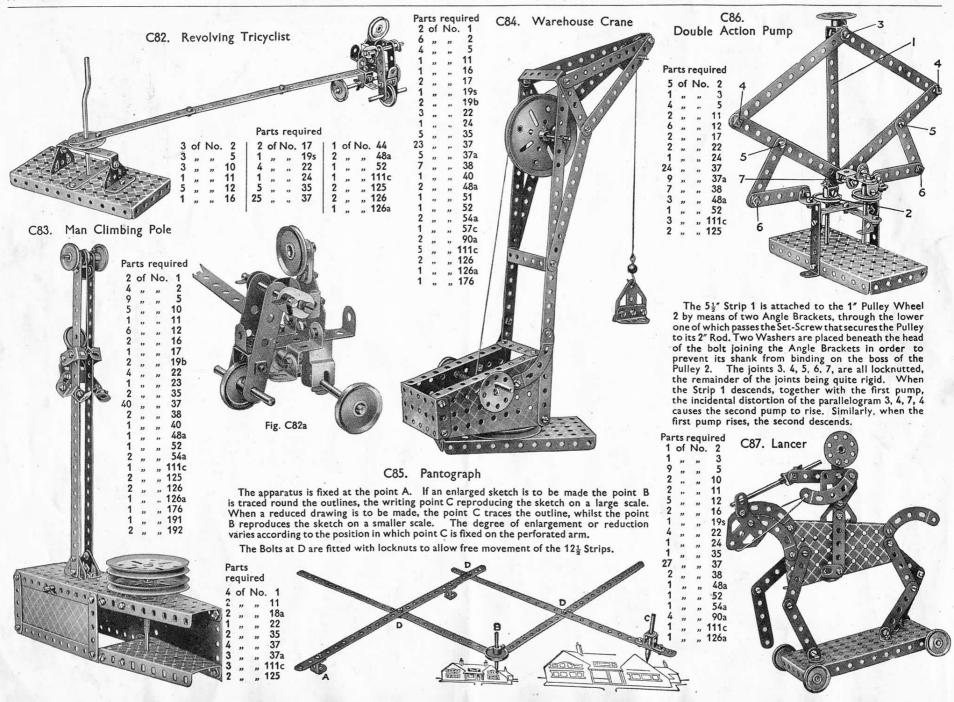


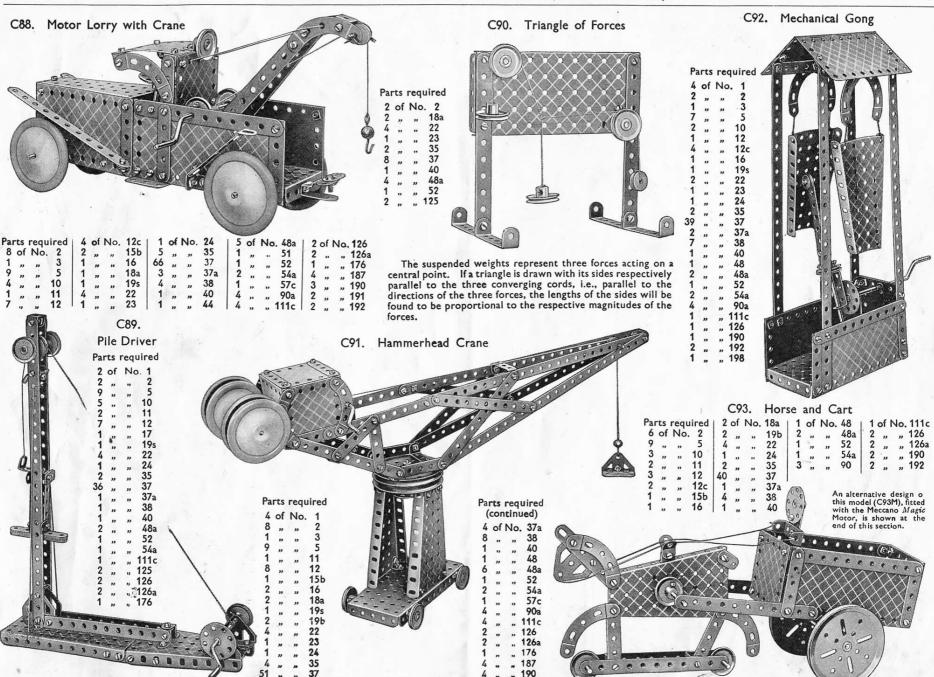


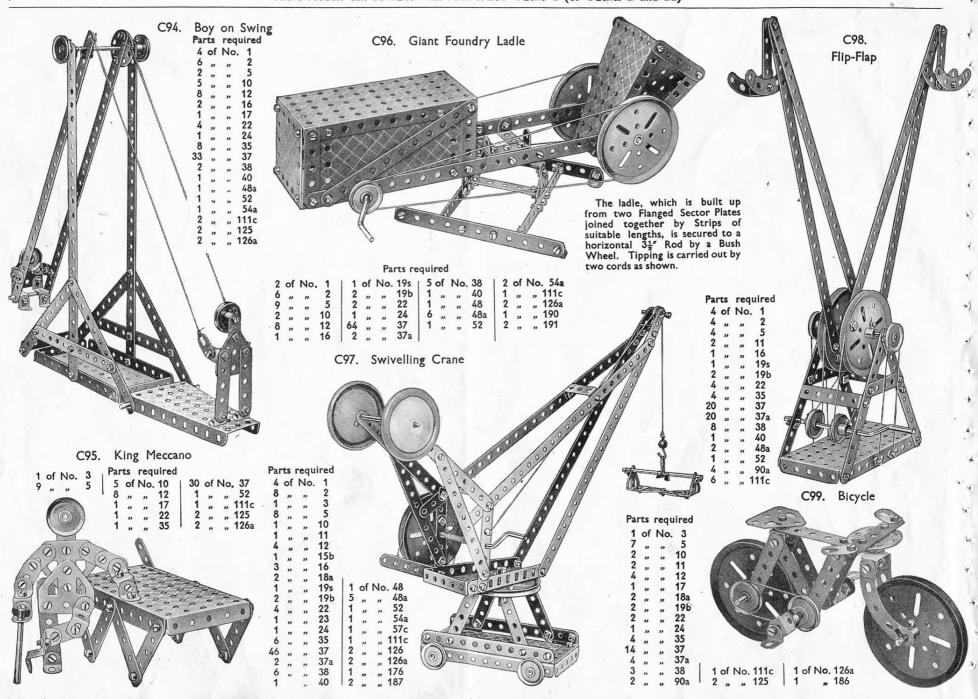


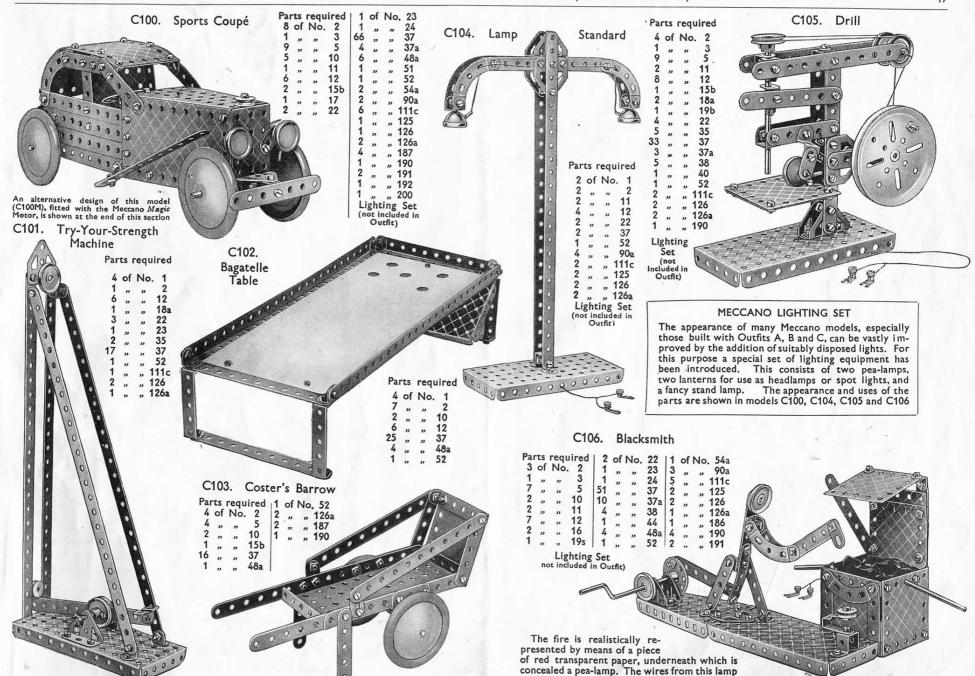
C73. Fly Boats



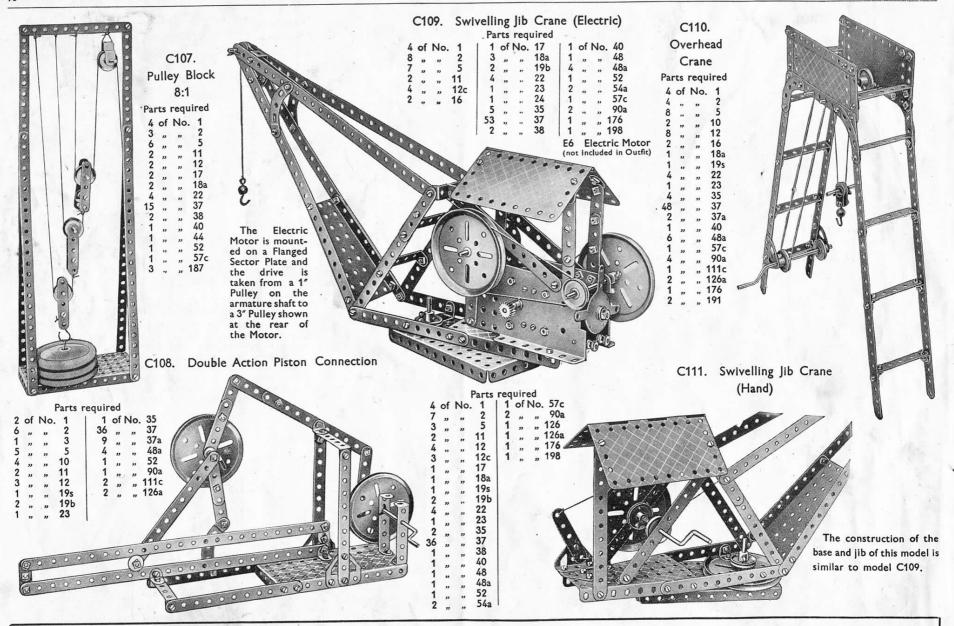








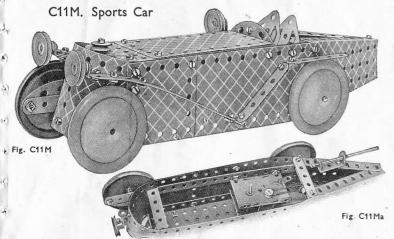
are shown at the back of the model.



#### HOW TO CONTINUE

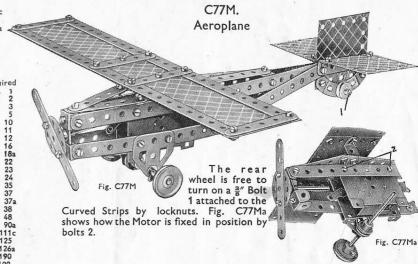
When you have built the C Outfit Models illustrated, and fitted a number of them with the Meccano Magic Motor (see two following pages), your next step is to purchase a Ca Accessory Outfit. This converts your C Outfit into a D and enables you to build bigger and better models.

The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The models featured on this and the opposite page are more elaborate variations of a selection of Outfit C Models, showing how the new Meccano Magic Motor can be fitted to give more realism and to increase the fun. The numbers of these redesigned models are the same as those of the corresponding models in the preceding pages, with the letter M added. Try your hand at re-designing other models in a similar manner.



2 of No. 1 | 1 of No. 24 | 6 of No. 111c 2 ... 2 | 2 ... 35 | 2 ... 125 5 ... 5 | 56 ... 37 | 2 ... 126 4 ... 10 | 8 ... 38 | 4 ... 187 8 ... 12 | 1 ... 48 | 4 ... 190 2 ... 12b | 1 ... 48 | 2 ... 191 2 ... 15b | 1 ... 52 | 2 ... 192 3 ... 22 | 2 ... 54a Magic Motor 1 ... 23 | 4 ... 90a Parts required

The underneath view of the model shown in Fig. C11Ma shows how the chassis is formed from two 12½" Strips that project beyond the front of the model. The *Magic* Motor is bolted to one Strip and drives the special ½" loose Pulley on the axle of the rear Road Wheels.



C93M.

Horse and Cart

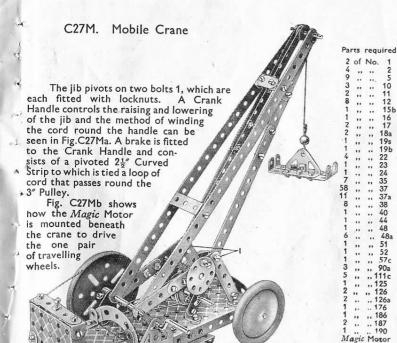


Fig. C27Mb

Fig. C93Ma shows an underneath view of the cart. A  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strip 1 is bolted across the Flanged Plate and carries the Trunnions for the Axle Rod. The Magic Motor is bolted beneath the Flanged Plate.

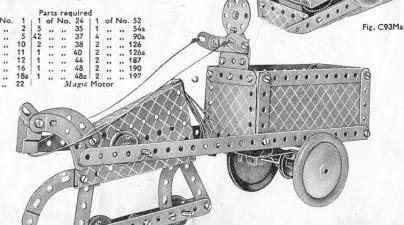
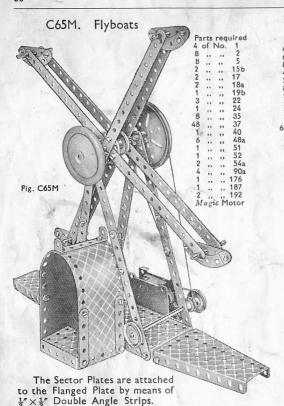
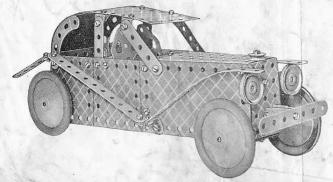


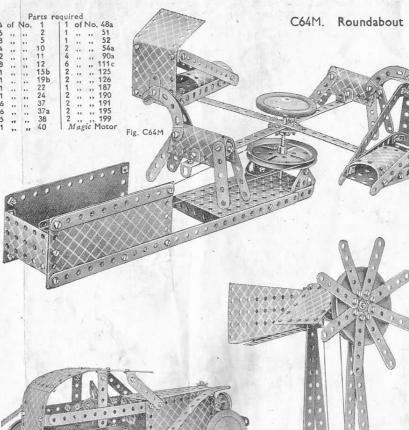
Fig. C93M



C100M. Sports Coupé Parts required

38 44 48 48a 51 54a 3 of No. 111c 8 of No. 1 .. ., 126 22 23 24 35 37 2 ... 1263 4 ... 187 4 ... 190 2 ... 191 2 ... 192 Magic Motor ,, ,, " " " "





The front Axle Rod is carried in the upturned ends of a 1½" × ½" Double Angle Strip bolted to the lower flange of the 2½"×1½" Flanged Plate forming the radiator. A dummy steering wheel, represented by a Bush Wheel, is carried on a 11" Rod passed through the righthand hole of a Trunnion and held in place by Spring Clips.

Fig. C100Ma

Fig. C22M.

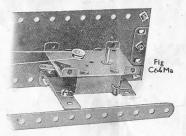
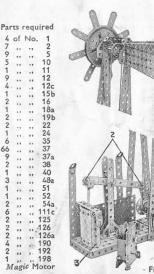
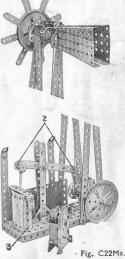


Fig. C64Ma shows how the Magic Motor mounted in position for driving this model.

# C22M. Windmill Pump

The construction of the model is seen in the sectional view in Fig. C22Ma the Magic Motor being shown ready to be mounted in position. The beam operating the pump is pivoted at each end by means of locknutted bolts 2. A 21" Strip connects one end of the beam to a Bush Wheel and pivots on the bolt 1 that is fixed in place by two nuts. The pump cylinder 3 is attached to the base Plate by Angle Brackets.





# LIST OF MECCANO PARTS

No. Description.	No. Description.	No. Description.	No. Description.	No. Description.
1 Perforated Strips, 12½"	30 Bevel Gears, 7, 26 teeth	79 Screwed Rods, 8"	124 Reversed Angle Brackets, 1"	168a Ball Ra , flanged disc
1a , $9\frac{1}{2}$ 1b , $7\frac{1}{2}$	30a ,, ,, $\frac{1}{2}$ , 16 ,, (Can only be 30c ,, ,, $1\frac{1}{2}$ , 48 ,, (used together)	79a ,, ,, 6" 80 ,, ,, 5"	125 ,, ,, ,, <u>1</u> " 126 Trunnions	168b ,, couched ,,
$2$ ,, ,, $5\frac{1}{2}$	31 Gear wheels, 1, 38 teeth	80 ,, ,, $3\frac{1}{2}$	126a Flat Trunnions	168c ,,  \sing, complete with balls
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32 vyorms	80b ,, ,, $4\frac{1}{2}$	127 Simple Bell Cranks	169 Digge Buckets
4 3"	34 Spanners	81 ,, ,, 2" 82 ,, ,, 1"	128 Boss Bell Cranks 129 Rack Segments, 3" diam	170 Eccentrics, ¼" throw
5 2½"	35 Spring Clips	89 5½" Curved Strips, 10" radius	130 Eccentrics, Triple Throw	172 Pendulum Connections
6 ,, ,, 2" 6a ,, ,, 1½"	36 Screwdrivers	89a 3" ,, ,, cranked, 13"	131 Dredger Buckets	173 Rail Adaptors
7 Angle Girders 241"	36a ,, Extra Long 36b ,, Special	radius, 4 to circle 89b 4" Curved Strips, cranked, 45"	132 Flywheels, 23" diam	174 Grease Cups
401//	37 Nuts and Bolts, 7/32"	radius, 8 to circle	133 Corner Brackets, 1½" 133a 1"	175 Flexible Coupling Units
8 , 12½"	37a Nuts	radius, 8 to circle 90 2½ Curved Strips, 2½ radius	134 Crank Shanks, 1" stroke	176 Anchoring Springs for Cord 177 Shafting Standards, large
7a 102½	38 Washers	90a 2½" ,, ,, cranked, 1½" radius, 4 to circle	135 Theodolite Protractors 136 Handrail Supports	178 , small
9 ,, ,, 5½,	40 Hanks of Cord	94 Sprocket Chain, 40" lengths	136a Coup!ings	1/9 Rod Sockets
9a ,, 4½"	41 Propeller Blades	95 , Wheels, 36 teeth, 2" diam.	137 Wheel Flanges	180 Toothed Gear Rings, 3½" diam.
9c " " 3 <sup>2</sup>	43 Springs	95a ,, ,, 28 ,, 1½" ,, 95b 56 3"	138 Ships' Funnels *138a-z ,, ,, Raked	(133 external teeth; 95 internal teeth)
9d ,, ,, $2\frac{1}{2}$	45 Double ,, ,,	96 18 1"	139 Flanged Brackets (right)	
9e ,, ,, 2"	46 Double Angle Strips, 2½"×1"		139a ,, ,, (left)	182 Insulating Bushes, 6BA
10 Flat Brackets	$\frac{47}{472}$ ,, ,, $\frac{2\frac{1}{2}}{1} \times 1\frac{1}{2}$	97 Braced Girders, 3½" long 97a ,, ,, 3" ,,	140 Universal Couplings	182a Insulating Washers, 6BA
1! Double Brackets	48 ,, ,, $1\frac{1}{2}''\times\frac{1}{2}''$	98 ,, ,, 2½" ,,	141 Wire Lines (for suspending clock weights)	183 Lamp Holders
12 Angle Brackets, ½" × ½" 12a ,, 1" × 1"	48a ,, ,, ,, $2\frac{1}{2}'' \times \frac{1}{2}''$	99 ,, ., 12½″ ,, 99a 9½″	142 Rubber Rings, 3' rim	184b 3½
12b 1"×½"	486 ,, ,, ,, 3½ X½ 48c /1"×1"	99	142a Motor Tyres (to fit 2" diam. rims)	1 1040 ,, 0 ,,
12c Obtuse Angle Brackets, ½"×½"	48d ,, ,, ,, 5½"×½"	100 ,, ,, $5\frac{2}{3}$ , ,	1420 ,, ,, ,, 3' ,, ,,	184d ,, 10 ,, / 184e 20 /
13 Axle Rods, 11½" 13a , 8"	50a Eye Pieces, with boss	100a ,, $4\frac{1}{2}$ ,,	142b , , , 3" , , , 1" , , , , 142c , , , 11±, , , , , , , , , , , , , , ,	185 Steering Wheels, 13" diam
$\frac{16a}{14}$ ,, ,, $\frac{61}{2}$	51 Flanged Plates, 2½ ×1½ 52	101 Healds, for looms 102 Single Bent Strips		186 Driving Bands
15 ,, ,, 5″	46 Double Angle Strips, $2\frac{1}{2}'' \times 11''$ 47 ,, , , , $2\frac{1}{3}'' \times 1\frac{1}{2}''$ 48 , , , , , , , , , , , , , , , , ,	102 Elea Cindone El" I	145 Circular Strips 71" diam overail	187 Road Wheels
15a ,, ,, $4\frac{1}{2}$ 15b ,, ,, $4^{\circ}$	53 Perforated Flanged Plates, $3\frac{1}{2}'' \times 2\frac{1}{2}''$	103 Flat Girders, 5½" long	146 ,, Plates, 6" ,, ,,	188 Flexible Plates, 2½" × 1½" 189 5½" × 1½"
16 ,, ,, 3½"	53a Flat Plates, $4\frac{1}{2}$ × $2\frac{1}{2}$ 54a Flanged Sector Plates, $4\frac{1}{2}$ long	103a	144 Dog Clutches	190 2½7×2½″
16a ,, ,, 2½" 16b 3"	55 Perforated Strips, slotted, $5\frac{1}{3}$ " long	103d ,, 3½″ ,,	147 Pawis, with Pivot Bolt and nuts	191 ,, ,, 4½"×2½" 192 5½"×2½"
17 ,, ,, 2"	55a ,, ,, 2" 57 Hooks	103e 3" 103f 2½ 103g 2" 103h 1½ 103k 7½	147b Pivot Bolts with 2 nuts	193 Strip Plates, 2½" × 2½"
18a ,, ,, $1\frac{1}{2}$	57a ,, Scientific	103f ,, $2\frac{1}{2}$ ,	147c Pawls without boss	194 ,, ., $3\frac{1}{2}$ " $\times 2\frac{1}{2}$ "
18b ,, ,, 1" 19 Crank Handles, large, 5"	57b ,, Loaded, large	103h , , , 1½" , ,	148 Ratchet Wheels 149 Collecting Shoes for Electric Locos	195 ,, ., 5½"×2½" 196 9½"×2½"
19s , small, 3½"	57c ,, ,, small 58 Spring Cord	103k " ,, 7½" 104 Shuttles, for loams	150 Crane Grabs	197 121 × 21
19a Wheels, 3" diam., with set-screws	58a Coupling Screws for Spring Cord	105 Reed Hooks, for looms	151 Pulley Blocks, Single Sheave	
20 Flanged Vyneels, 1 g diam	58b Hooks for Spring Cord 59 Collars with Grub Screws	106 Wood Rollers	152 ,, ,, Two ,, 153 ,, ,, Three	199 Curved Plates, U Section 9,33 radius
20 Flanged Wheels, $1\frac{1}{8}^{m}$ diam	61 Windmill Sails	106a Sand Rollers	154a Corner Angle Brackets, 1" (right	200 ,, ,, 1 1 7 radius 201 Lamps with Flex, 3½-volt
19b 3" dia., with centre boss & set-screw	62 Cranks	107 Tables for designing machines	hand)	202 Angle Brackets (for Headlamps)
19c 6" ,, ., ., ., ., ., ., ., ., ., ., ., .,	62a Threaded Cranks	108 Architraves 109 Face Plates, 2½" diam	155 Rubber Rings (for 1" Pulleys)	203 Headlamps
21 11/2	62b Double Arm Cranks 63 Couplings	110 Rack Strips, 3½"	156 Pointers (with boss), 21" overall	203b Headlamp Bodies
196 0	63a Octagonal Couplings	110 Rack Strips, $3\frac{1}{2}$	157 Fans, 2" diam	204 Headlamp Nuts
22a 1" ,, without ,, ,,	63b Strip Couplings	111 Doits, 4	158a Signal Arms, Home 158b ,, ,, Distant	205 ,, Glasses (Green, Plain or Red)
23 ½ ,,, ,, ,, ,, ,,	63c Threaded Couplings 64 ,, Bosses	111a ,, ½" 111c ,, å"	140 Channel Bearings 11"v4"v1"	206 Lanipshades
24 Bush Wheels	65 Centre Forks	113 Girder Frames	161 Girder Brackets, 2 X1 X 2	207 Lamp Bases
25a ,, ,, 3" ,, ½" ,,	66 Waighte 50 grammas	114 Hinges	162 Boilers, complete with ends	207a Lamps with Standard and Flex 208 Battery Tags and Studs
230 ,, ,, 4 ,, 4 ,,	67 Veights, 30 grannes	115 Threaded Pins	162a ,, ends 162b ,, without ends	2030 Washons for Bassami Sauda
240		116a ,, ,, small	163 Sleeve Pieces	210 Nuts
26b ,, , ½" ,, ¾" ,,		116a ,, ,, small 117 Steel Balls, 3/4" diam 118 Hub Discs, 5½" ,,	164 Chimney Adaptors	210 Nuts
Gear Wheels 27 50 teeth to gear with 3 pinion	70 Flat Plates, 5½" × 2½"	118 Hub Discs, 5½	165 Swivel Bearings	, , , , , , , , , , , , , , , , , , ,
27a 57 ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	72 ,, ,, $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ "	120a Spring Buffers	166 End 167 Geared Roller Bearings	
	73 ,, 3″×1½″	120b Compression Springs	167a Roller Races, geared, 192 teeth	4 71 1 1 1 1 2 2 7
28 Contrate Wheels, 1½", (2½" diam.)	76 Triangular Plates, 2½	121 Train Couplings	167b Ring Frames for Rollers 167c Pinions for Roller Bearings, 16 teeth	* The series includes 26 Funnels in the correct designs and colours of leading
276 95	78 Screwed Rods, 11½"	123 Cone Pulley	168 Ball Bearings, 4" diam	shipping companies.
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