

MECCAN

THE WORLD'S FINEST HOBBY FOR BOYS

HOW TO BEGIN

With the Meccano Parts contained in this Outfit you will be able to build many different kinds of models — Cranes — Trucks — Roundabouts — and lots of other subjects that interest boys.

fitting them together and making the splendid models illustrated in this Book are a Spanner and a Screwdriver.

both of which you will find in the Outfit.

Make the simple models first. Choose the one you want to build and then lay out on the table all the parts mentioned in the 'Parts Required' list for that model. You will be able to identify the parts by looking at the pictures in the list below.

To help you to start building, we will describe how Model O.3, Garden Seat, is made. Begin by bolting to the Flanged Plate the 54" Strips that form the back legs of the seat. Then attach the upper ends of these Strips to two further 54" Strips to form the back. Two 24" Strips are then bolted to the front flange of the Plate to form the front legs. The model is completed by fixing two 2\" x \(\frac{1}{2} \)" Double Angle Strips to the back to form arm rests.

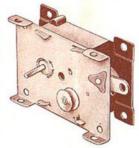
In some models it is necessary to join certain parts together so that, although they cannot come apart, they are free to pivot or move in relation to one another. To do this the parts are bolted together as usual, but the nut is not screwed up

tightly, so that the parts are not gripped. Then, to prevent the nut rom unscrewing, a second put is screwed up tightly against it, the first nut meanwhile being held with a Spanner. This method of using Each part in the Outfit is actually a real engineering part in miniature. The only tools required for a second nut is known as Lock-nutting.

THE MECCANO MAGIC MOTOR

The greatest thrill in Meccano modelbuilding comes when a model is set to work by means of a Motor. The Meccano Magic Clockwork Motor is specially designed to drive the kind of models you can build with this Outfit.

The illustrations of



Models O.15, O.23 and O.26 show how the Magic Motor can be fitted to No. O Outfit models. One of these wonderful little Motors will add greatly to the fun you obtain from yourmodel-building.

The Meccano Magic Motor is not included in the Outfit.

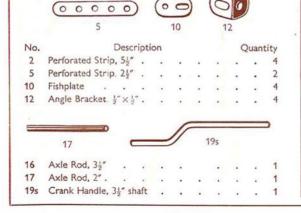
A Rod is usually supported in a bearing, which is generally a hole in a Strip, Trunnion or Flat Trunnion, so that it is free to revolve. The Rod is then said to be journalled in the Strip, Trunnion or Flat Trunnion as the case may be.

When you have built all the models shown in this Book the fun is not over but is just beginning! Now comes the chance to make use of your own ideas. First of all rebuild some of the models making any small changes in construction that may occur to you; afterwards try building some simple models entirely to your own design. In doing this you will feel the thrill of the engineer and the inventor.

As you gain experience you will naturally wish to build bigger and better models. To do this you will need a larger Outfit containing a greater number and variety of parts. To convert your Outfit into the next larger one, the No. 1, you need a No. Oa Accessory Outfit.

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

CONTENTS OF MECCANO No. O OUTFIT

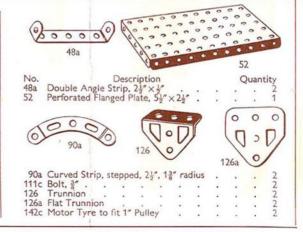








No.			[Desc	ripti	on				(Quan	tity
22	Pulley,	1" dia	m.	with	bos	s and	scr	ew				2
24	Bush W	heel,	13"	dia	m.							1
34	Spanner					2.0						1
35	Spring (Clip				14						4
36	Screwd	river										1
37a	Nut											22
37ь	Bolt, 7	#							19			18
38	Washer				**							4



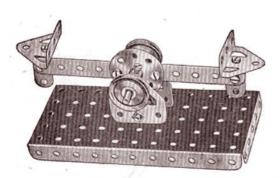
O.1 GARDEN SEAT



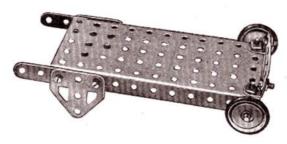
O.4 COUNTER SCALES

Parts required

1	of	No.	2	2	of	No.	22	1	1	of	No	. 52
2	,,	39	10	1	23	,,,	24		2	,,	22	126
4	,,		12	9	,,	,,,	37	1	2	,,	,,,	126
1			17	2			38	1				



O.2 FLAT TRUCK



Parts required

2 of No.	5 1	2 of No. 22	1 of No. 90a
2 " "	12	8 " " 37	2 " " 126a
1,		1 " " 52	2 " " 155

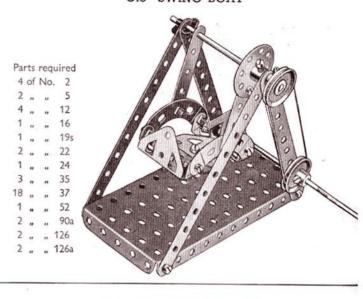
O.5 SCALES

Parts required

3	of	No.	2	1	2	of	No.	35	1 2	of	No.	126
1	,,	,,,	17	1	10	,,		35 37	2	,,	**	126a
1	**	**	24	1	1	**		52	1			



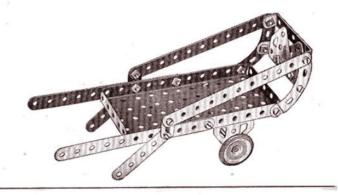
O.3 SWING BOAT

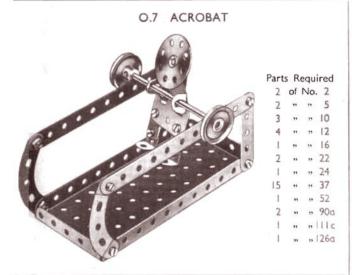


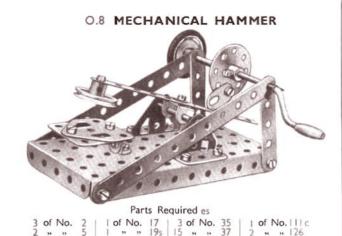
O.6 COSTER'S BARROW

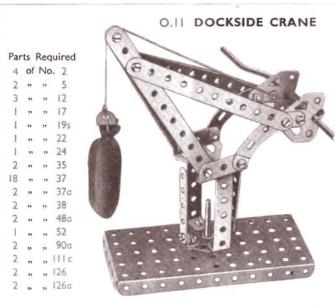
Parts required

4	of	No.	2	1 2	of	No.	22 1	2	of	No	90a
2	n	22	5	16	23	,,	37	2	,,	**	126
2	**	22	10	2	"		48a	2	,,	.,,	126a
1	**		16	1 1	2.5	13	52	2	"	**	155

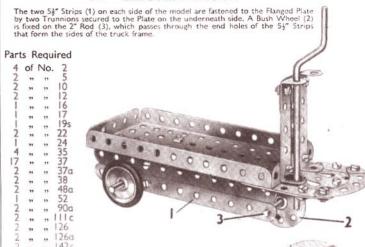


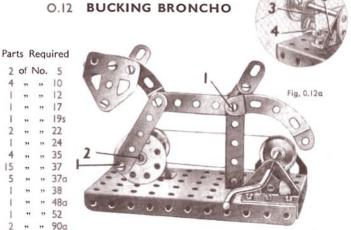






0.9 ELECTRIC TRUCK



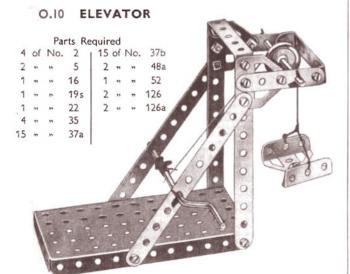


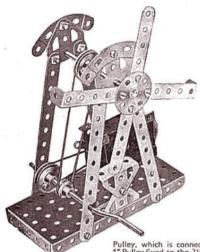
The Bolts (1) are fitted with *lock-nuts*, so that the parts they attach are free to pivot. Bearings for a 2" Rod, the end of which is seen at (2), are provided by a Fishplate (3) Fig. O.6a, bolted to an Angle Bracket (4), and a Trunnion (5).

" 111c

" "126

2 " " 126a





O.13 WINDMILL

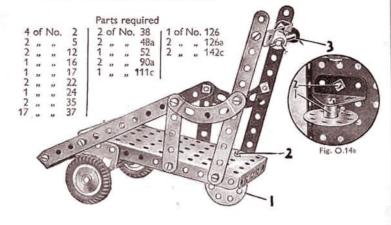
Parts Required

4	of	No.	2	18	of	No.	37
2	22	. 12	5	2	31	12	38
1	23	11	16	2	91	77	480
1	28	**	195	1	31	17	52
2	**	11	22	2.	**	77	90a
1	93	17	24	2	21	**	126
3	33	17	35	.2	71	17	1260

Magic Motor (not included in

A Driving Band connects the pulley of the Magic Motor to a 1" Pulley fastened on the Crank Handle. The Crank Handle carries also a **

0.14 INVALID CARRIAGE

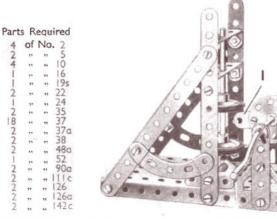


The Bush Wheel 1 is locked on a 1" Bolt Journalled in a Trunnion attached to the Flanged Plate by the Bolt 2 (see Fig. O.14a). The handlebar 3 is held by Spring Clips in two Angle Brackets bolted to the 21 X 2" Double Angle Strip.

Parts Required 4 of No. 2 2 n n 5 4 n 12 1 n 19s 2 n 22 1 n 24 4 n 35 18 n 37 2 n 37a 2 n 38 1 n 48a 1 n 52 2 n 90d Magic Motor (not included in Outle)

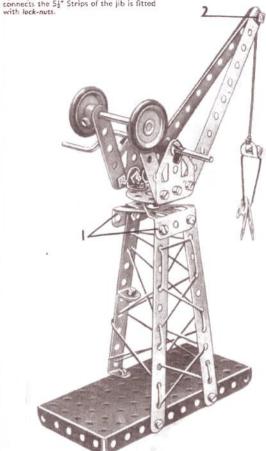
O.16 DROP HAMMER

The hammer, which is formed by the two 1" Pulleys on a 3½" Rod, is lifted by the Fishplates (1) as they rotate when the Crank Handle is turned. The Fishplates are bolted to a Bush Wheel fixed on the Crank Handle.



O.17 SHIPBUILDING CRANE

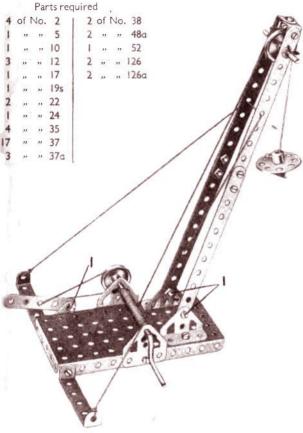
Two Trunnions (1) form the top of the tower, and a § Bolt passed through the holes in their pointed ends and into the boss of a Bush Wheel, forms the pivot for the jib. Two Flat Trunnions are connected to the Bush Wheel by Angle Brackets. The § Bolt (2) that connects the 5½ Strips of the jib is fitted



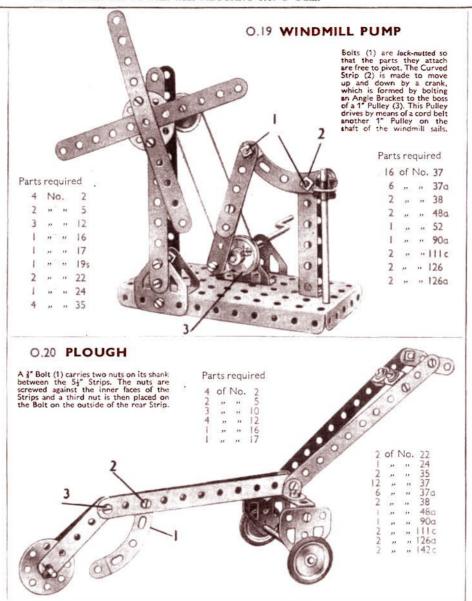
Parts Required

4	of	No.	2	1 1	of I	No.	24	1	of	No.	52
2	**	**	5	2	**	**	35	2	17	**	90a
3	55	***	12	15	99	***	37	2	**	71	Hic
1	22	**	17	2	11	**	37a	2	**	**	126
1			195	2	**	**	38	2	99	31	126a
2	.,		22	2	**	**	48a	2	**	**	1420

O.18 DERRICK CRANE

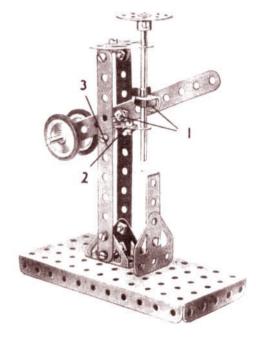


The construction of the model is commenced by bolting the Trunnions and Flat Trunnions that support the jib and Crank Handle respectively, to the $5\frac{1}{2}$ " $\times 2\frac{1}{2}$ " Flanged Plate that forms the base of the model. The jib is then assembled and fastened to the Trunnions by means of the lock-nutted Bolts 1. The brake lever is a $2\frac{1}{2}$ " Strip extended by a Flat Bracket, and is fastened to a second Flat Bracket bolted to the Flanged Plate by means of a Bolt 1a the nut of which is left sufficiently loose to allow the Strip to move. A length of Cord is fastened to the lever and then passed round the 1" Pulley on the Crank Handle.

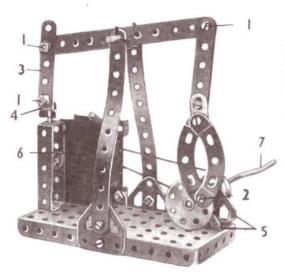


0.21 PUNCHING MACHINE

	Parts required .	
3 of No. 2	2 of No. 22	1 of No. 52
2 " " 10	1 ,, ,, 24	2 " "126
4 "" 12	16 " " 37	2 " " 1260
1 " " 16	2 " " 37a	2 142
1 " " 17	1 " " 48a	



The Bolts (1) are lock-nutted. The lower bearing for the punch consists of two Fishplates (2), which are bolted together. One of them is then attached to an Angle Bracket that is fixed to one of the vertical 5½" Strips by the Bolt (3).



O.22 BEAM ENGINE

				Parts	R	equir	ed				
4	of	No.	2	1 1	of	No.	195	2	of	No.	38
2	29	**	5	1	**	**	22	2	29	27	48a
3	39	**	10	1	"	**	24	1	**	**	52
4	**	**	12	4	**	77	35	2	**	**	90a
1	29	**	16	15	"	"	37	2	"	"	111c
1	,11	,,	17	6	**	**	37a	2	,11	19	126
								7	**	**	126a

Magic Motor (not included in Outfit)

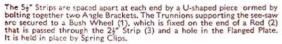
The Bolts (1) are lock-nutted. The Curved Strips must be free to pivot on the Bolt (2). The Strip (3) also must be freely pivoted to the Angle Bracket (4).

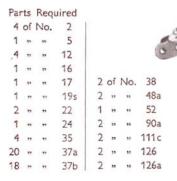
The Trunnions (5) are each raised from the Flanged Plate by a Washer on each of the bolts that hold them in place.

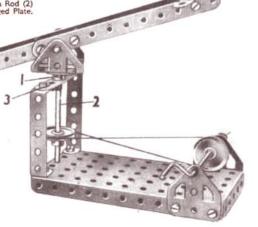
The Magic Motor (6) is attached to the Flanged Plate by two Fishplates and the

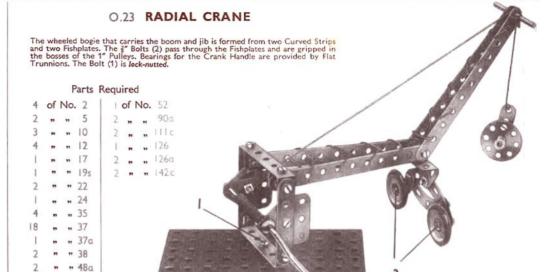
each of the bolts that hold them in place. The Magic Motor (6) is attached to the Flanged Plate by two Fishplates, and the pulley on its shaft is connected by cord to a 1" Pulley on the Crank Handle (7).

0.24 SEE-SAW ROUNDABOUT







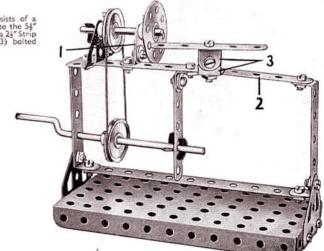


O.25 LATHE

The inner support for the lathe spindle consists of a Fishplate (1) bolted to an Angle Bracket fixed to the 5½ Strip (2) that forms the lathe bed. The tool rest is a 2½ Strip that is supported by two Angle Brackets (3) bolted together to form a U-shaped piece.

Parts Required

				-9-11				
2	of	No.	2	18	of	No.	37a	
2	**	**	5	18	"	"	37Ь	
2	"	17	10	2	"	"	38	
4	21	17	12	2	"	"	48a	
1	21	,,,	17	1	17	21	52	
1	**	,,	19s	1	77	**	126	
2	"	,,	22	2	25	**	126a	
1	"	"	24					
3	**	**	35					



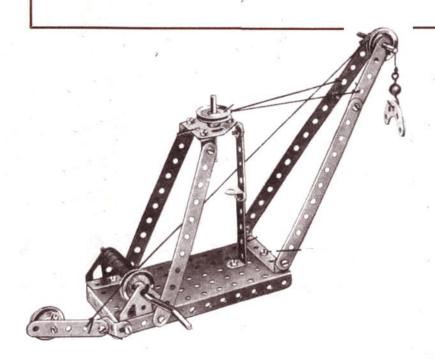
HOW TO CONTINUE

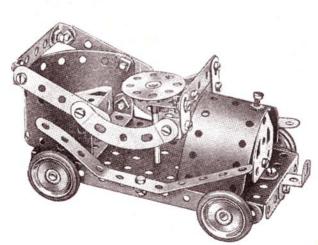
When you have built all the models shown in this Book, and others of your own invention, you should get from your Meccano Dealer a No. Oa Accessory Outfit. This will convert your No. O Outfit into a complete No. | Outfit.

With this larger Outfit you will be able to build a large number of new, bigger and more interesting models. Three examples of No. 1

Outfit models are illustrated here.

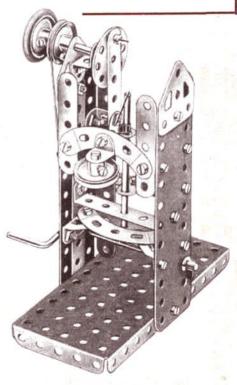
The model-building possibilities of Meccano are unlimited. For each of the Outfits Nos. O to 9, there is an Accessory Outfit that converts it into the one next larger. No matter with which Outfit you begin the Meccano hobby, by means of these Accessory Outfits you can gradually build up your original Outfit until you have the equivalent of a complete Outfit No. 10, which will provide you with the full resources of the wonderful Meccano system. Every Outfit has its own Book of Instructions.





Kiddie Car

MADE IN ENGLAND
BY MECCANO LIMITED
LIVERPOOL



Power Press

Derrick Crane



WHAT THE GUILD MEANS

The Meccano Guild is an organization for boys, started at the request of boys, and as far as possible conducted by boys. In joining the Guild, a Meccano boy becomes a member of a great brotherhood of world-wide extent. Wherever he happens to be, even in strange countries, he will know that he has met a friend whenever he sees the little triangular badge of membership. The Meccano Guild is bringing together Meccano boys all over the world, and helping them to get the best out of life. At its head — guiding and controlling and taking a personal interest in this great movement — is the President, Mr Roland G. Hornby, son of the inventor of Meccano.

HOW TO JOIN THE MECCANO GUILD

Any owner of a Meccano Outfit, no matter what its size, may become a member. All he has to do is to fill in the official application form on the back of this leaflet, have his signature witnessed, and send the form to Headquarters with a postal order (not stamps) for the necessary amount in payment for the official badge, which he will wear in his buttonhole.

The price of the badge for boys living in the British Isles is 1/-. For those living overseas it is

1/6 (30 cents in Canada).

Applicants living in Canada, Australia, New Zealand or South Africa should write to the Meccano agents in their countries. Their addresses are as follows:

CANADA: Meccano Ltd., 675, King Street West, Toronto.

AUSTRALIA: E. G. Page & Co. (Sales) Pty. Ltd. (P.O. Box 1832), Danks Building, 324, Pitt Street, Sydney, N.S.W.

NEW ZEALAND: Models Ltd. (P.O. Box 129), 53, Fort Street, Auckland, C.I.

SOUTH AFRICA: Arthur E. Harris (P.O. Box 1199), 142, Market Street, Johannesburg.

Their Badges and certificates are then forwarded without delay, while their application forms are sent to Headquarters at Liverpool.

Applicants living in any other country overseas should forward their forms, preferably with a British postal order or a money order (not stamps) for 1/6, direct to the Secretary, the Meccano Guild, Binns Road, Liverpool 13, England.

Guild members are eligible for the Correspondence Club, by which they are placed in touch with other members in various parts of the world. Full particulars and enrolment forms can be

obtained from the Secretary.

The Secretary will send also, on request, full details of the Guild Recruiting Campaign, and of the Medallion awarded to members who are successful in obtaining recruits, together with particulars of the Meccano clubs founded and established by enthusiastic Meccano boys. A special booklet, 'How to run a Meccano Club' will be sent post free to any member on receipt of 2d. in stamps.

APPLICATION FOR MEMBERSHIP OF THE

MECCANO GUILD



Headquarters: BINNS ROAD, LIVERPOOL 13

BADGE OF MEMBERSHIP

I possess a Meccano Outfit, and I hereby make application for membership of the Meccano Guild.

I approve of the objects of the Guild, and I promise on my honour

- (1) To conform to the rules and regulations of the Meccano Guild.
- (2) To promote its objects by my own example: to be helpful to others; to be clean in thought and habit; to be determined to learn and make progress.
- (3) To wear the Meccano Guild Badge on all possible occasions.
- (4) To recognize and acknowledge all other Members wearing the Guild Badge, and to render them help in case of need.

I enclose 1/- for the Guild Badge (Great Britain).

I enclose 1/6 for the Guild Badge (Overseas).

I enclose 30c. for the Guild Badge (Canada).

Strike out line not applicable (See other side).

Name of Applicant	(BLOCK CAPITAL	S PLEASE)	
Address			

Date	***************************************	4	Age.
Witness			
Address			
The witness should be the P	Parent, Guardian, Employer	, Schoolmaster or Ci	hurch Minister, and should

THE THREE GREAT OBJECTS OF THE GUILD

- To make every boy's life brighter and happier.
- To foster clean-mindedness, truthfulness, ambition and initiative in boys.
- To encourage boys in their hobbies, and especially in the development of their knowledge of mechanical and engineering principles.

A ALL KEEN BOYS



MECCANO



The happiest and most successful boys are those who take a keen interest in the world around them. The 'MECCANO MAGAZINE' is the ideal paper for these boys. Month by month its pages are filled with attractively-written articles, splendidly illustrated from actual photographs.



The subjects include Engineering in all its branches, Railways, Road Transport, Aeroplanes and Shipping. Inventions and Scientific Discoveries are described in simple language. Everything is dealt with in an attractive and straightforward style, and with an accuracy that has won for the Magazine the enthusiastic approval of the engineering, technical and scientific world. Special sections are devoted to Model-building with Meccano, and to the operation of realistic Miniature Railways; and Stamp Collecting articles are another important feature. Competitions of all kinds, and of a variety to suit every reader, are announced each month.

The 'MECCANO MAGAZINE' is on sale at all bookstalls, newsagents and Meccano dealers, price 1/-. It is best to place a regular order with your Meccano dealer or newsagent, to make sure that you do not miss any copies.

If you prefer to have each issue sent direct, all that is necessary is to fill in the order form below and to send this to the Editor at the address given, with a Postal Order to cover the cost, which is 14/- for a year, or 7/- for six months, inclusive of postage in each case.

ORDERING THE 'M.M' OVERSEAS

Readers Overseas also may order the 'MECCANO MAGAZINE' from Meccano dealers and newsagents.

In AUSTRALIA the price per copy is 1/3, and the subscription rates are 18 - for a year, and 9/- for six months. In CANADA the price per copy is 12c. and the subscription rates are \$1.40 for a year, and 70c. for six months. In the UNITED STATES the price per copy is 15c. The subscription rates are \$2.00 a year and \$1.00 for six months.

For other details and information Meccano enthusiasts living in Canada, Australia, New Zealand, South Africa or the United States should write to the Meccano agents in their countries. Their addresses are as follows:

CANADA: Meccano Ltd., 675, King Street West, Toronto.

AUSTRALIA: E. G. Page and Co. (Sales) Pty. Ltd. (P.O. Box 1832), Danks Buildings, 324, Pitt St., Sydney, N.S.W.

NEW ZEALAND: Models Ltd. (P.O. Box 129), 53, Fort Street, Auckland C.1.

SOUTH AFRICA: Arthur E. Harris (P.O. Box 1199), 142, Market Street, Johannesburg.
UNITED STATES: H. Hudson Dobson, 200, Fifth Avenue, New York 10, New York.

MECCANO

ORDER FORM

To the Editor,	
Meccano Magazine,	
Binns Road, Liverpool 13.	
I enclose Postal Order for	Please post the
'Meccano Magazine' for	months, beginning with
theissue.	
Name in block letters	
Address	