

INSTRUCTION

Manual

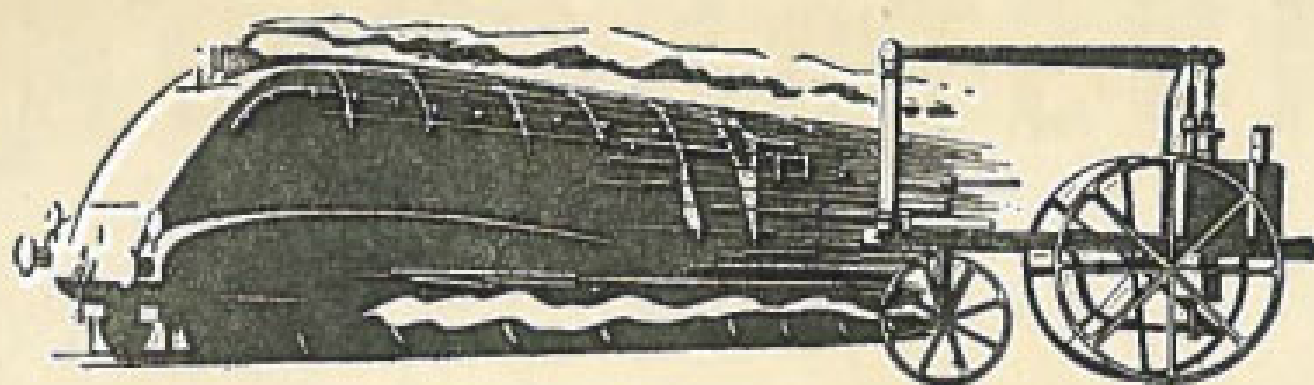
BOB



Constructional Toys



COMPONENT PARTS & HOW THEY ARE ASSEMBLED



ENGINEERING is the key to all the comforts and conveniences of modern life.

In 1785 the first locomotive ran at 12 m.p.h. and the world hailed it as a triumph of mechanical skill. Today, more than 100 m.p.h. faster has been run by the famous British "Silver Jubilee"; that is just one result of skilled and thorough engineering practice.

You belong to the modern world—the mechanised world; it is up to you to know all you can about it. Perhaps, too, you have the hidden genius of a great engineer in your brain and hands; let BOB help you to find out.

BOB is a grand hobby, a fascinating occupation and may open the doors of your career in life.

Now to work. Study the instructions carefully before you start; thoroughness is one of the most important qualities in an engineer. Imagine that the models you make are miniatures of things actually to be used—things that must not fail in use. That is the way to get the best out of your BOB kit. Ask a friend to join you—between you many other ideas and designs will come besides those shown in the manual. Try to create new models; the great engineer is a creative designer, and you must train your brain to produce original ideas.

Write to us if you are in doubt or if you would like to make original suggestions; the BOB engineers will welcome your letter and are ready to help in any way they can.

CONTENTS OF No. 0 SET

Will make 40 models, part of which are illustrated on page 10.

No.		Quantity	No.		Quantity
1997/45	25 mm. Rod	... 4	1997/49	Sleeve	... 2
/44	50 mm. Rod	... 5	/47	Hub Pulley, 30 mm. dia.	... 1
/43	75 mm. Rod	... 5	/33	Pulley, Plain 18 mm. dia.	... 1
/42	100 mm. Rod	... 4	/23	Pulley, Plain 30 mm. dia.	... 2
/20	150 mm. Rod	... 3	/48	Rivet	... 2
/46	100 mm. Rod, Curved	2		Metric Rule, 300 mm.	... 1
/22	Joint Casting	6		Screw Driver	... 1
/21	Joint Screw	12		Skein of Twine	3-ft.
/24	Clip	... 5			

CONTENTS OF SUPPLEMENTARY SET No. OA

By adding the above parts, your No. 0 Set becomes No. 1, enabling you to make at least 80 models. Part of the additional models are illustrated on page 12.

No.		Quantity	No.		Quantity
1997/45	25 mm. Rod	... 2	1997/21	Joint Screw	12
/43	75 mm. Rod	... 3	/49	Sleeve	... 2
/42	100 mm. Rod	... 2	/52	Crank, 50 mm.	1
/20	150 mm. Rod	... 4	/53	Pulley with Per- forated Face, 30 mm. dia.	... 4
/22	Joint	... 6			

CONTENTS OF No. 1 SET

Will make 80 models, part of which are illustrated on page 12.

No.		Quantity	No.		Quantity
1997/45	25 mm. Rod	... 6	1997/33	Pulley, Plain 18 mm. dia.	... 1
/44	50 mm. Rod	... 5	/23	Pulley, Plain 30 mm. dia.	... 2
/43	75 mm. Rod	... 8	/48	Rivet	... 2
/42	100 mm. Rod	... 6	/53	Pulley with Per- forated Face, 30 mm. dia.	... 4
/20	150 mm. Rod	... 7	/52	Crank, 50 mm.	... 1
/46	100 mm. Rod, Curved	2		Metric Rule, 300 mm.	... 1
/22	Joint Casting	12		Screw Driver	... 1
/21	Joint Screw	24		Skein of Twine	3-ft.
/24	Clip	... 5			
/49	Sleeve	... 4			
/47	Hub Pulley, 30 mm. dia.	... 1			

CONTENTS OF SUPPLEMENTARY SET No. 1A

By adding the above parts your No. 1 Set becomes No. 2, enabling you to make at least 120 models, part of the additional models are illustrated on page 14.

No.		Quantity	No.		Quantity
1997/45	25 mm. Rod	... 8	1997/24	Clip	... 4
/44	50 mm. Rod	... 4	/49	Sleeve	... 11
/43	75 mm. Rod	... 4	/33	Pulley, 18 mm. dia.	2
/42	100 mm. Rod	... 4	/53	Pulley with Per- forated Face, 30 mm. dia.	... 2
/18	200 mm. Rod	... 8	/54	Pulley with Per- forated Face, 20 mm. dia.	... 6
/16	250 mm. Rod	... 10	/57	Crank, 100 mm.	1
/22	Joint	... 12			
/21	Joint Screw	24			

CONTENTS OF No. 2 SET

Will make 120 models, part of which are illustrated on pages 10, 12 and 14.

No.	Quantity	No.	Quantity
1997/45 25 mm. Rod	... 14	1997/33 Pulley, Plain 18 mm. dia.	... 3
/44 50 mm. Rod	... 9	/23 Pulley, Plain 30 mm. dia.	... 2
/43 75 mm. Rod	... 12	/48 Rivet	... 2
/42 100 mm. Rod	... 10	/53 Pulley with Per- forated Face, 30 mm. dia.	... 6
/20 150 mm. Rod	... 7	/52 Crank, 50 mm.	... 1
/18 200 mm. Rod	... 8	/54 Pulley with Per- forated Face, 20 mm. dia.	... 6
/16 250 mm. Rod	... 10	/57 Crank, 100 mm.	... 1
/46 100 mm. Rod, Curved	2	Metric Rule, 300 mm.	... 1
/22 Joint Casting	24	Screw Driver	... 1
/21 Joint Screw	48	Skein of Twine	3-ft.
/24 Clip	... 9		
/49 Sleeve	... 15		
/47 Hub Pulley, 30 mm. dia.	... 1		

So far 3 BOB Sets are on Sale, Nos. 0, 1 and 2, together with Supplementary Sets 0A and 1A.

In 1947 further BOB Sets will be ready for you which will make an entirely new range of models in addition to the existing ones. It is in your own interests to look after all your pieces very carefully—as this will allow you to build some other splendid models which will appear later in a supplementary booklet.

Instructions



When you first open your BOB Set, do not at once remove the parts, study them on the card for a time, and become familiar with them. Get to know what each part looks like, its name, and its purpose. An engineer is always familiar with the materials with which he works, and YOU are learning to be an engineer.

Now study all the fascinating things shown on pages 10, 12 and 14 which can be made from BOB Sets. Consider their detail and construction and then get to work.

After a little practical experience with your BOB parts you will be able to make not only the models illustrated but your own too—bridges, aeroplanes, etc. and many other novel assemblies. But remember, see the model in your mind's eye before you start constructing, better still make an actual drawing of it. With BOB you are building to scale and anything you create will be like the Real Thing in miniature.

Explanation of BOB Parts

The different parts required for all assemblies are limited to 5, viz., joints, rods, sleeves, pulleys and clips.

1. Special union joints with 2 grooves in which a rod is held by the pressure of a screw head.
2. Steel rods 3 mm. in diameter and 25 to 250 mm. in length.
3. Sleeves which make it possible to obtain instantly rods of any required length by joining them end to end.
4. Pulleys which can also be used as wheels when constructing vehicular models.
5. Clips to secure wheels, pulleys and other parts.

BOB needs only one tool—THE SCREWDRIVER.

How to assemble BOB parts

To get the rod into the groove of the joint all you have to do is:

Loosen the screws by $1\frac{1}{2}$ to 2 turns (supposing it was screwed up tight in the beginning) so that the rod can be pushed in from the end. Fix the position of the joint by measurement with your ruler before tightening screw.

Always take care to allow play between wheel and clip in order that the wheels may rotate freely.

Panelling

Once the framework of a model has been put together, it can be made to look more finished (seat, bed, windmill, tramcar, aeroplane, etc.) by placing on it panels of cardboard or metal of suitable size and colour.

It is easy to imagine the way panels are fixed to the rods. One of the most suitable and effective means is to use a rivet which passes through the panel and is held in the joint, together with the rod as shown in diagram at back of your BOB cover.

Later BOB sets, ready in the near future, will include panels for this purpose. These you will find ideal in many ways. Details, however, will be explained to you when the time comes.

Whatever method is applied be sure to make a good job. **Neatness is essential**—your reward will be a faithful reproduction of the Real Thing.

Presentation of BOB

For the present BOB is supplied in 3 Sets, Numbers 0, 1 and 2 with Supplementary Sets Number 0A and 1A as listed on pages 3 to 5. The larger Set will in each case make all the models listed for any lower numbered set.

The main sets are boxed and fitted with Screwdriver and Rule. The Supplementary Sets are only carded as there will be room in your box to keep the extra parts.

In addition to this, separate parts can be purchased as required so as to meet the needs of your own Ideas.

Once a model using all the parts of a box has been assembled you are certain to want more.

Prices and particulars of additional parts may be had from your local supplier.

In case of difficulty or if supplier is out of stock, write to :

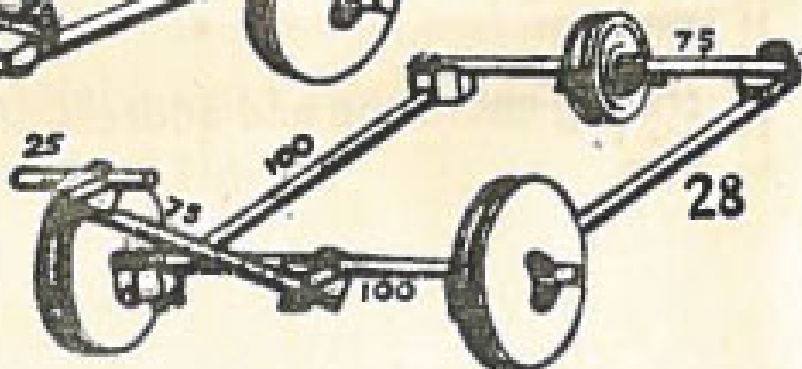
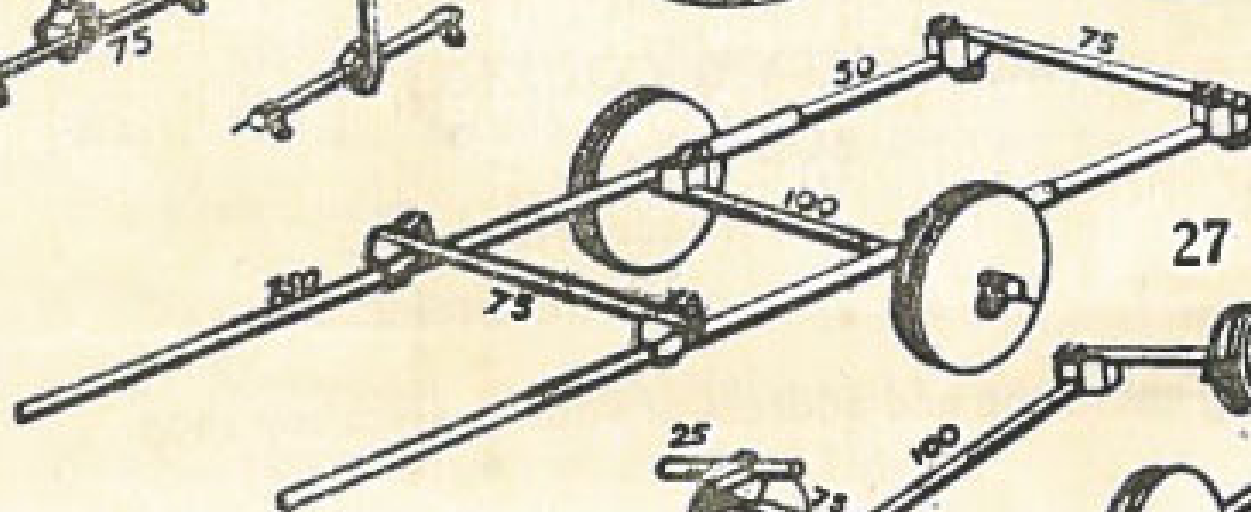
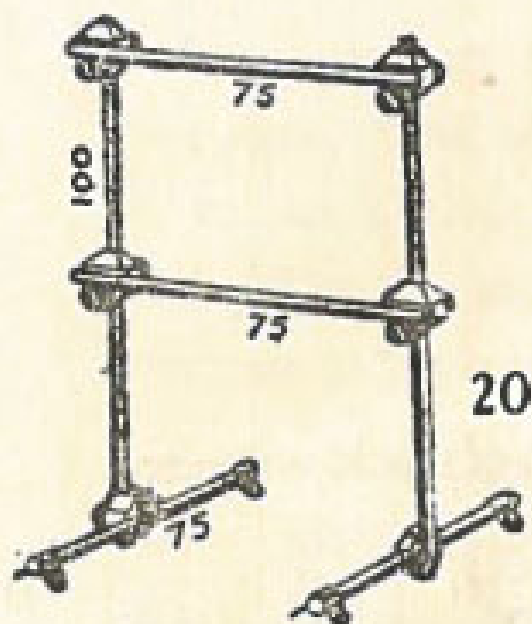
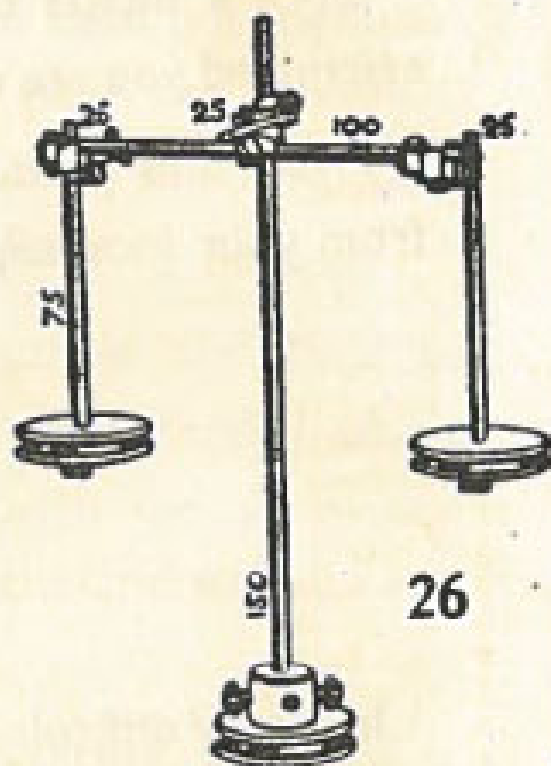
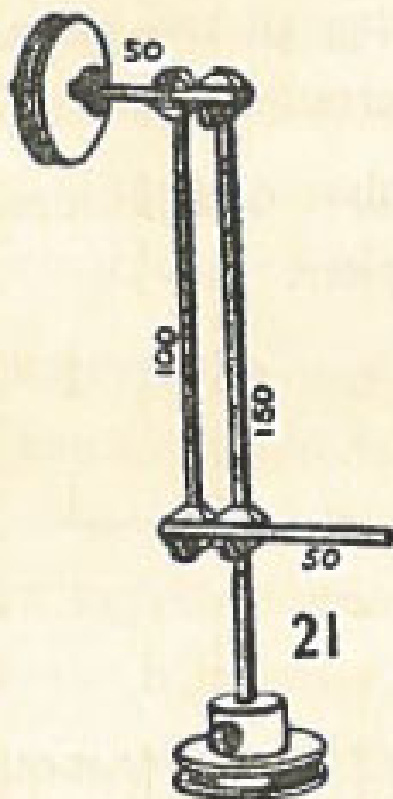
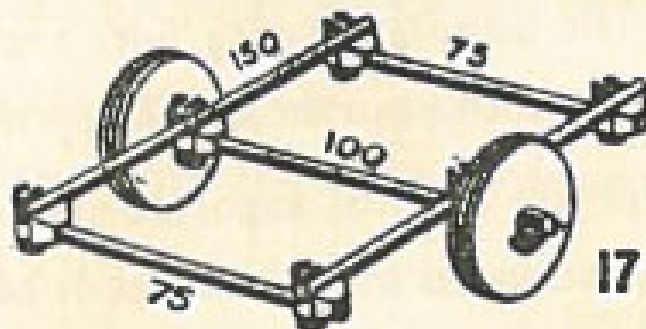
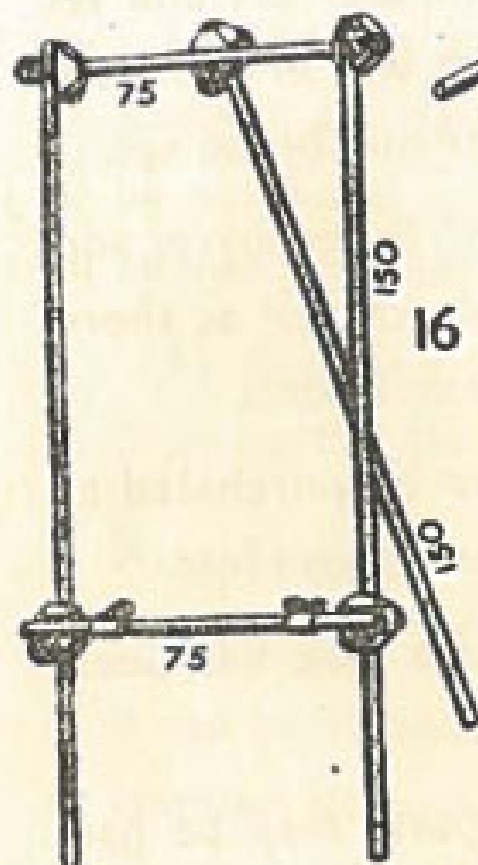
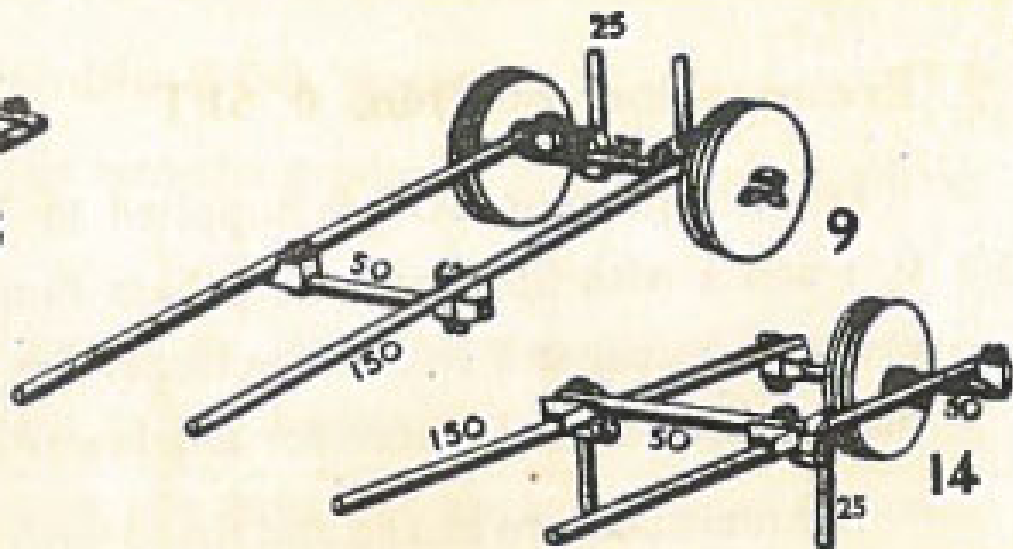
RIDINGBERY & CO., LTD.,

BOB Dept.,

Feeder Road,

Bristol 2.

stating the name and address of your nearest toy shop.



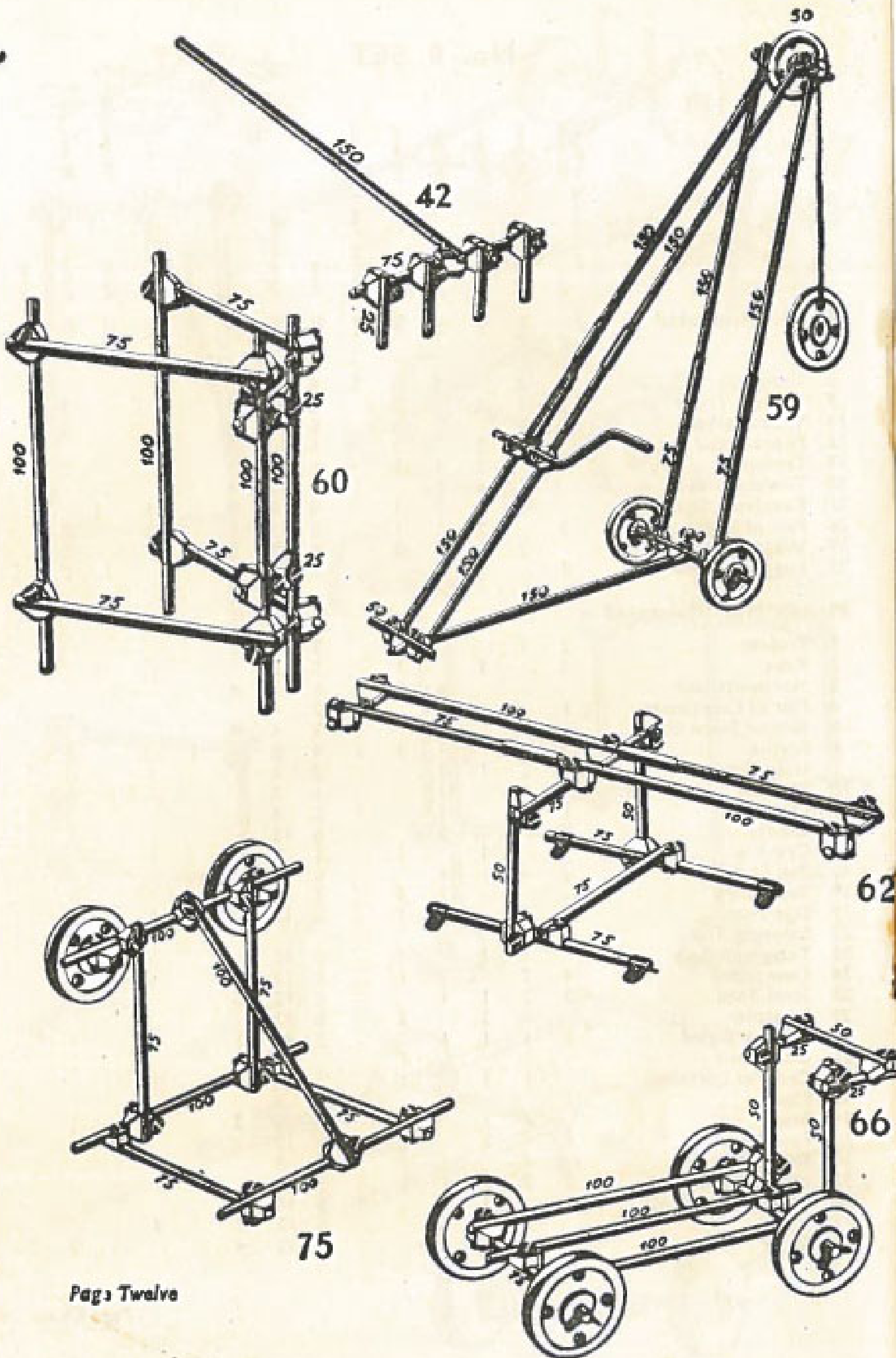
No. 0 SET

Models Illustrated

No.	Part No. 1997/45	Description of Part Rod	25 mm.	50 mm.	75 mm.	100 mm.	150 mm.	100 mm.	Joint	Joint Screw	Clip	Sleeve	Hub Pulley	18 mm. d.a. Pulley	30 mm. d.a. Pulley	Rivet
8 Toboggan			3					2	6	12						
9 Hauling Truck	2		1	1			2		6	12	2				2	
14 Wheelbarrow	2		2				2		6	12	2				1	
16 Photo Stand				2			3		5	10	2					
17 Trolley				2	1		2		6	12	2				2	
20 Towel Horse				4	2				6	12	4					
21 Revolving Signal			2		1		1		4	8	2		1	1		
26 Pair of Scales	3			2	1		1		6	12	5		1		2	
27 Waggon			2	2	1		2		6	12	2	2			2	
28 Luggage Truck	1			2	3				6	12	4			1	2	

Models Not Illustrated

1 Trident	2	1				1			3	6						
2 Rake	4		1			1			5	10						
3 Horizontal Bar					4	2			6	12	4					
4 Pair of Compasses	1				2				2	4						
5 Skis or Snow Shoes							2		2	4	4					
6 Scythe	3				1	1	1		4	8		1				
7 Holy Cross		2	1		1				3	6			1			
10 Rammer	1				1				1	2			1			
11 Dividers	1				1		1		2	4						
12 Ladder	3				2				6	12						
13 Crucifix			1			1			1	2			1			
15 Pen Stand	2	4			1				6	12						
18 Set Square					1	1			1	2						
19 Sign Post		2			2	1			6	12			1			
22 Spinning Top		1											1			
23 Telegraph Pole		1	1			1			6	12			1			
24 Coat Stand	4	2				1			6	12			1			
25 Steel Yard	3	2	1	1					6	12	5			1	1	
29 Stretcher			3			2			6	12						
30 Railway Signal	3	1	1	1					5	10	5		1		1	
31 Dumb-bell						1					4				2	
32 Cross of Lorraine		1	1			1			2	4			1			
33 Pliers	1						2		2	4						
34 Brace		4	1						4	8	2				1	
35 Foot Measure	1		2			2			6	12						
36 Knife Rest		4			1				4	8						
37 Candlestick	2	2			1	1			5	10			1			
38 Bracket Cross	4		2						5	10						
39 Stand		5			1				6	12	1		1			
40 Buffer			5						6	12	4				2	2

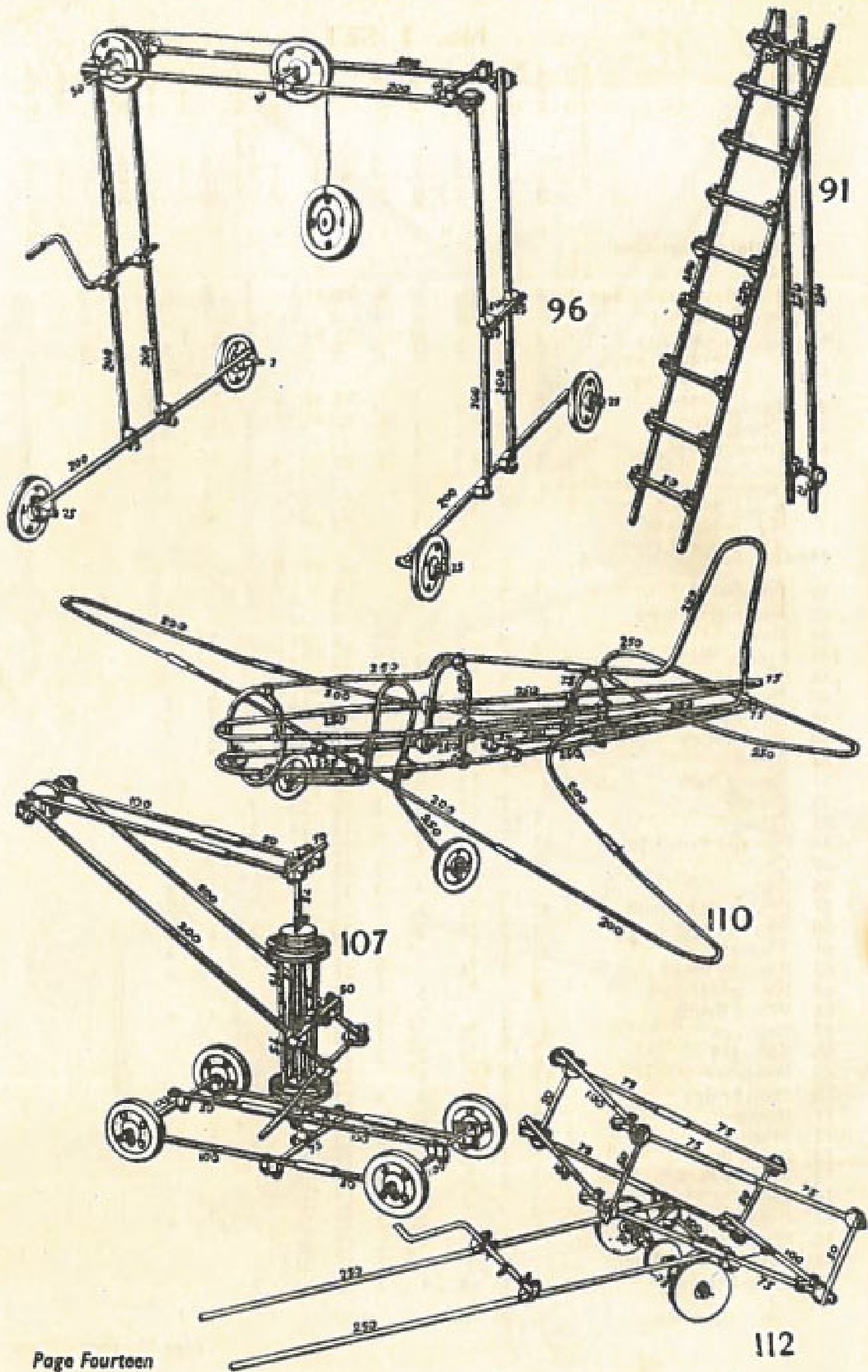


No. 1 SET

Models Illustrated		Part No.	Description of Part	25 mm.	50 mm.	75 mm.	100 mm.	150 mm.		30 mm.	50 mm.
No.		1997/45	Rod								
42	Rake	4			1			1	5	10	
59	Crane			2	2	1		7	12	24	4
60	Towel Horse	2			4	4			12	24	3
62	See-Saw			2	6	2			12	24	2
66	Luggage Truck	2		3	2	3			12	24	4
75	Buffer				4	4			12	24	2

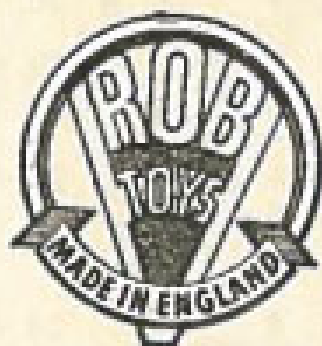
Models Not Illustrated

41	Trident					3				2				3	6	1				
43	Automatic Pistol	2				1		3				1		8	16					
44	Shrine					4		5				2		8	16	2				
45	Parallel Bars							8		2		2		12	24	2				
46	Steps					5						3		11	22					
47	Trailer	1				2		3		1				8	16					
48	Barrow	2				2		4				2		12	24		2	2		
49	Hand Truck	2				2		4				2		12	24		1	2		
50	Bench					5				2		3		12	24		2			
51	Sawing Rack	1						2		4				8	16					
52	Trestle					1		2		4		2		10	20	1				
53	Table					2		6		4				12	24	2				
54	Pen and Pencil Stand	6						4		2				12	24					
55	Chair							8				2		12	24					
56	Cart							2		4		2		12	24		2	2		
57	Photograph Stand	4						1		1		3		9	18					
58	Small Waggon					2		8		2				12	24	2	4	4		
61	Trapeze	2				1				6		2		10	20	2		4		
63	Reading Stand					2		6				1		10	20			4		
64	Horizontal Bars									5		2		8	16					
65	Wood Truck					6				2		3		12	24		4	4		
67	Gridiron	4				2		2				1		10	20					
68	Bedstead							6		2		2		12	24					
69	Stretcher					4		2		6				12	24	2				
70	Foot Bridge							2		4		4		12	24					
71	Harrow	7								1		3		12	24					
72	Wood Cart							6		3		3		12	24	2	2	2		
73	Paper Rack					2		2		2		4		12	24					
74	Pergola					2		4		4		2		12	24	2				
76	Shelf							2		2		5		12	24					
77	Gate							6		2		2		12	24			4		
78	Photo Frame	2						2		4		2		12	24					
79	Hat and Coat Stand	2				5				1		2		12	24					
80	Lamp Bracket	2				2		4		1		2		12	24	2				



No. 2 SET

		Description of Part															
		Part No.	25 mm.	50 mm.	75 mm.	100 mm.	150 mm.	200 mm.	250 mm.								
		1997/45	Rod	/44 Rod	/43 Rod	/42 Rod	/20 Rod	/18 Rod	/16 Rod	/22 Joint	/21 Screw	/49 Sleeve	/53 Pulley with Per. Face 30 mm.	/24 Clip	/52 Crank	/33 Pulley	/23 Pulley
															50 mm.	18 mm.	30 mm.
																	20 mm.
																	100 mm.
Models Illustrated																	
No.																	
91	Household Steps	1	9						4	22	44						
96	Travelling Gantry	4	4					8		22	44		6	8	1		
107	Revolving and Travelling Crane		8	7	7			2		23	46	6		5	1	3	6
110	Glider	1		3	2			7	10	22	44	15	2	4			
112	Tipping Dust Cart	2	5	9	4				2	24	48	4	2	9		1	1
Models Not Illustrated																	
81	Armchair	2	4	10	4					22	44	4					
82	Book Rest			4	6			6		20	40						
83	Pen and Pencil Stand	14	2	2	6					22	44	4					
84	Buffet Wagon		4	7	6					18	36	4	4	4			
85	Swing Boat, Fairground attraction	2	4	6	8					24	48	4					
86	Moving Crane		3	2	4			2	2	18	36	2	5	4	1		
87	Plate Stand	4	6						8	20	40	4					
88	Wheelbarrow	3	4	5	7					22	44	4	1				
89	Garden Swing	4	4		4			6		20	40	2		4			
90	Bedstead		1	3	6				4	20	40						
92	Bridge			8	4			4		24	48						
93	Stool			5	6					16	32						
94	Tea Trolley		2	12	4					24	48	2	4	4			
95	Gymnasium	2	4	1	3			5	4	20	40	1		4			
97	Scales	7	3	1	2			4		23	46						
98	Truck	8			6			4		24	48		4	4			
99	Tipping Wagon	3	2	10	6					24	48	3	4	4			
100	Hay Cart	3	2	5	4			5		24	48		4	6			
101	Country Cart		2	5	4			2	4	23	46		4	8			
102	Bench		2	4	4				8	24	48	2					
103	Camp Bed	2	6		5				3	22	44						
104	Pergola (or Arbour)			4	4			7	5	24	48	4					
105	Wood tray		6	8	1			3		24	48		2	4			
106	Perambulator		2	2	10			4		24	48	2	4	4			
108	Letter Scales	8	3	1	8					23	46	3		1		2	1
109	Drawbridge		2	7	8			2		24	48	2		2		1	1
111	Railway Signal	2	4	3	4			4		20	40		2	8			
113	Wheeled Steps		6	3	6			2		24	48	2	4	4			
114	Luggage Trolley	2	4	1	4			5		22	44	1	4	5			
115	Horse Cart	5	2	5	5			2	2	24	48	2	4	7			
116	Wood Cart	1	4	7	2			2	2	23	46		4	4			
117	Table			6	4			7		22	44	2					
118	Shed or Barn			12	6			2	3	24	48	6					
119	Railway Station Truck			6	2	7				22	44		4	4			
120	Rickshaw		8	4	5			2		24	48	2	2	2			



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The 'BOB' Construction Club

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none">1. There is no charge.2. Membership :<ol style="list-style-type: none">a Associate Ages 6-9b Full " 9-153. Both classes of members receive monthly, free of charge, new designs of models and other interesting matter. | <ol style="list-style-type: none">4. A monthly competition (details on membership) with valuable prizes in both classes.5. Annual Exhibition for best exhibits, judged by famous constructional engineers. New models and parts will be on view. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Date.....

Dear Chief Engineer,

May I be enrolled in the 'BOB' Construction Club please?

I understand there is no charge whatever and I undertake to abide by the rules of the Club.

I BOUGHT MY 'BOB' SET NO.....AT

Yours sincerely,

Signed

MY ADDRESS IS

NOT TO BE FILLED IN

Accepted

Badge Issued

No. on Club Register.....

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will be paid
by
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No Postage
Stamp necessary
if posted in
Great Britain or
Northern Ireland

BUSINESS REPLY CARD

LICENCE No. BS 314

RIDINGBERRY & CO., LTD.,
BOB Dept.,
FEEDER ROAD,
BRISTOL 2,

THE manufacturers regret that shortage of packing materials renders it impossible to present "BOB" in the quality box designed for it. They trust that the pleasure and instruction obtained from this set will make you wish to possess one of the advanced sets planned for 1947 which it is hoped will be offered to you in a pack worthy of the "BOB" contents.

RIDINGBERY OF BRISTOL

