

MECCANO

MORE NEW MODELS

MECCANO is the greatest hobby in the world because it provides never-ending interest, fun and excitement. There is nothing to be compared with the joy and satisfaction of creating something new, and inventing new models in Meccano is a pastime that grows continually in fascination.

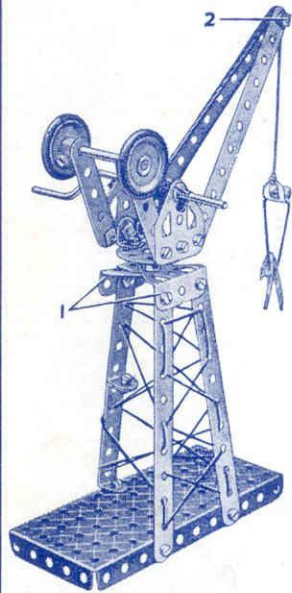
This folder illustrates fourteen splendid new models that can be built with Meccano Outfits No. 0 to No. 6. The building of these models will give you lots of fun, and as you build you will get ideas for models of your own invention. The possibilities of Meccano are endless !



These Models can be built with MECCANO No. 0 Outfit

These Models can be built with MECCANO No. 1 Outfit

These Models can be built with MECCANO No. 2 Outfit



O.26 DOCK-SIDE CRANE

Parts required

4 of No. 2	15 of No. 37b
2 " " 5	2 " " 38
3 " " 12	2 " " 48a
1 " " 17	1 " " 52
1 " " 19s	2 " " 90a
2 " " 22	2 " " 111c
1 " " 24	2 " " 126
2 " " 35	2 " " 126a
17 " " 37a	2 " " 155a

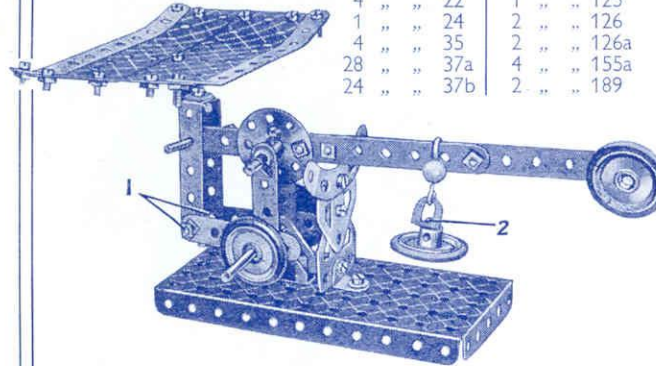
Two Trunnions 1 form the top of the tower, and a $\frac{3}{4}$ " Bolt passed through the holes in their pointed ends and into the boss of a Bush Wheel, forms the pivot for the jib. The Flat Trunnions are connected to the Bush Wheel by Angle Brackets. The $\frac{3}{4}$ " Bolt 2 that connects the $5\frac{1}{2}$ " strips of the jib is fitted with lock-nuts.

1.49 LETTER BALANCE

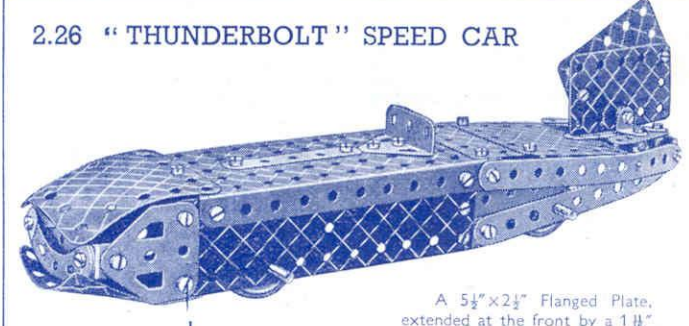
Parts required

The Bolts 1 are lock-nutted. The $\frac{3}{4}$ " Bolt 2 is passed through the hole of the Angle Bracket and then locked in the boss of the 1" Pulley.

4 of No. 2	4 of No. 38
4 " " 5	2 " " 48a
4 " " 10	1 " " 52
2 " " 12	1 " " 57c
1 " " 16	1 " " 90a
2 " " 17	4 " " 111c
4 " " 22	1 " " 125
1 " " 24	2 " " 126
4 " " 35	2 " " 126a
28 " " 37a	4 " " 155a
24 " " 37b	2 " " 189



2.26 "THUNDERBOLT" SPEED CAR



Parts required

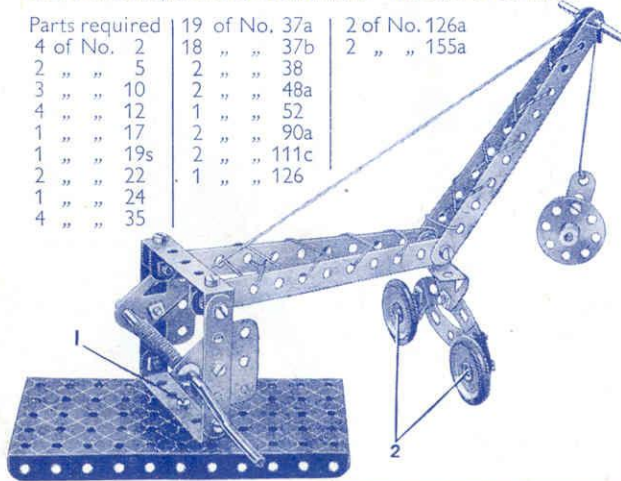
4 of No. 2	1 of No. 52
6 " " 5	2 " " 90a
2 " " 10	1 " " 126
4 " " 12	2 " " 126a
2 " " 16	4 " " 155a
4 " " 22	2 " " 188
39 " " 37a	2 " " 189
39 " " 37b	2 " " 190
4 " " 38	2 " " 200
2 " " 48a	

A $5\frac{1}{2}$ "x $2\frac{1}{2}$ " Flanged Plate, extended at the front by a $1\frac{1}{8}$ " radius Curved Plate and at the rear by two $2\frac{1}{2}$ "x $2\frac{1}{2}$ " Flexible Plates, forms the top of the car. The rear part of each side is formed by two $5\frac{1}{2}$ " Strips and a $2\frac{1}{2}$ " Strip, the former being connected together at the tail by Angle Brackets. Bolts 1 hold a $2\frac{1}{2}$ "x $\frac{1}{2}$ " Double Angle Strip that carries the $1\frac{1}{8}$ " radius Curved Plate forming the underside of the front cowl.

O.27 RADIAL CRANE

The wheeled bogie that carries the boom and jib is formed from two Curved Strips and two Flat Brackets. The $\frac{3}{4}$ " Bolts 2 pass through the Flat Brackets and are gripped in the bosses of the 1" Pulleys. Bearings for the Crank Handle are provided by Flat Trunnions. The Bolt 1 is lock-nutted.

Parts required	19 of No. 37a	2 of No. 126a
4 of No. 2	18 " " 37b	2 " " 155a
2 " " 5	2 " " 38	
3 " " 10	2 " " 48a	
4 " " 12	1 " " 52	
1 " " 17	2 " " 90a	
1 " " 19s	2 " " 111c	
2 " " 22	1 " " 126	
1 " " 24		
4 " " 35		



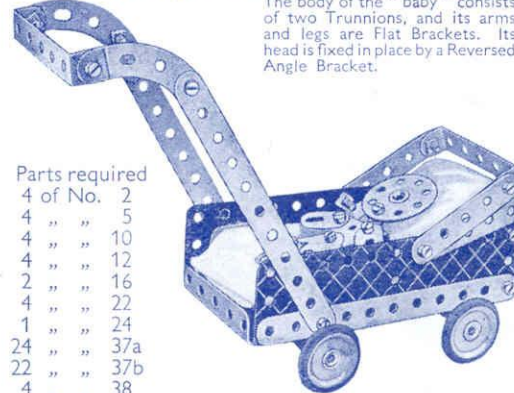
1.50 CHILD'S PRAM

Flat Trunnions bolted between the Flexible Plates and the Flanged Plate provide bearings for the rear axle. Angle Brackets bolted under the Flanged Plate form the bearings for the front axle.

The body of the "baby" consists of two Trunnions, and its arms and legs are Flat Brackets. Its head is fixed in place by a Reversed Angle Bracket.

Parts required

4 of No. 2		
4 " " 5		
4 " " 10		
4 " " 12		
2 " " 16		
4 " " 22		
1 " " 24		
24 " " 37a		
22 " " 37b		
4 " " 38		
2 " " 48a	2 of No. 111c	2 of No. 126a
1 " " 52	1 " " 125	4 " " 155a
2 " " 90a	2 " " 126	2 " " 189

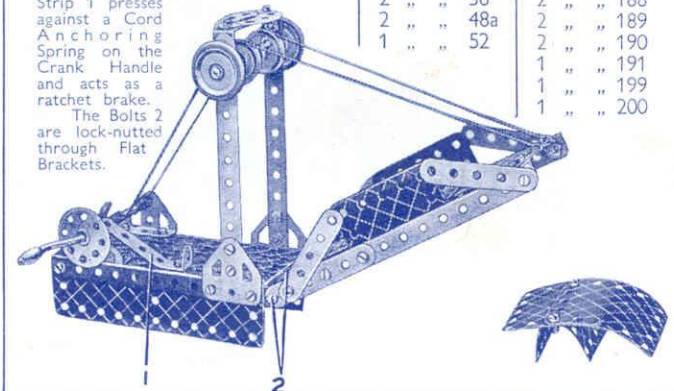


2.27 CANAL BRIDGE

A $4\frac{1}{2}$ "x $2\frac{1}{2}$ " Flexible Plate and a $2\frac{1}{2}$ "x $2\frac{1}{2}$ " Flexible Plate overlapped one hole form the roadway of the span. The $2\frac{1}{2}$ "x $\frac{1}{2}$ " Double Angle Strip 1 presses against a Cord Anchoring Spring on the Crank Handle and acts as a ratchet brake. The Bolts 2 are lock-nutted through Flat Brackets.

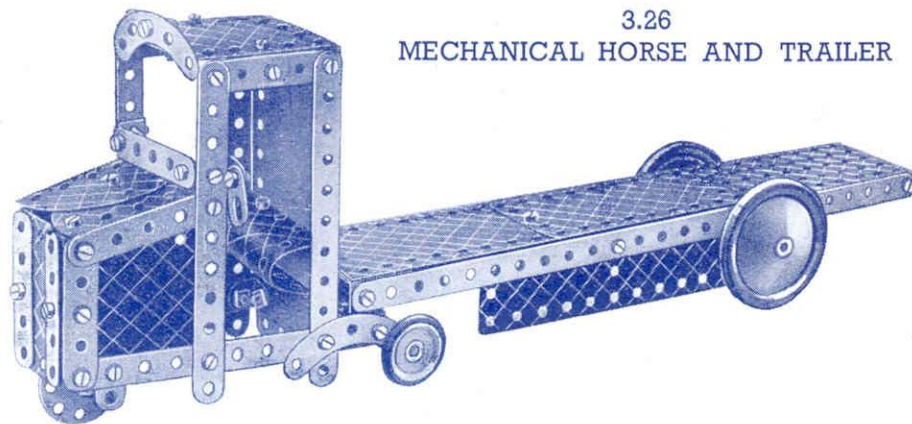
Parts required

4 of No. 2	1 of No. 19g	2 of No. 90a
6 " " 5	4 " " 22	2 " " 126
4 " " 10	1 " " 24	2 " " 126a
6 " " 12	41 " " 37a	2 " " 155a
1 " " 16	39 " " 37b	1 " " 176
	2 " " 38	2 " " 188
	2 " " 48a	2 " " 189
	1 " " 52	2 " " 190
		1 " " 191
		1 " " 199
		1 " " 200

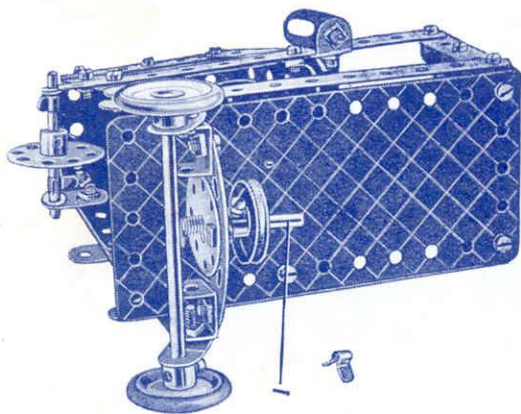


These Models can be built with MECCANO No. 3 Outfit

3.26 MECHANICAL HORSE AND TRAILER



The chassis of the mechanical horse is built up on two $5\frac{1}{2}$ " Strips, extended at the rear by $2\frac{1}{2}$ " Curved Strips that provide bearings for the rear axle. The method of building up the bonnet and cab is clear from the illustration. The rear ends of the $5\frac{1}{2}$ " Strips are joined by a Curved Strip and two Double Brackets. At the centre of the Curved Strip is bolted a $1\frac{1}{4}$ " Disc, through which passes a $1\frac{1}{4}$ " Rod 1. This Rod engages in the centre hole of the Plate at the front of the trailer, and is retained in place by a Spring Clip and a Cord Anchoring Spring. A 1" Pulley and two Washers space the end of the trailer from the $1\frac{1}{4}$ " Disc. Bearings for the rear axle are provided by Flat Trunnions.



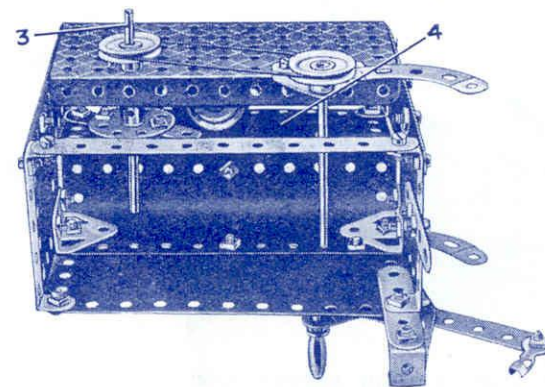
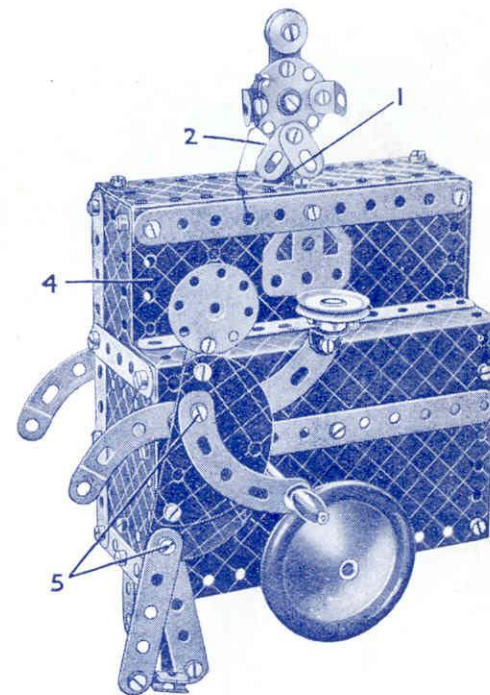
Parts required			
2 of No.	1	4 of No.	90a
6 " "	2	6 " "	111c
9 " "	5	2 " "	125
4 " "	10	2 " "	126
2 " "	11	2 " "	126a
8 " "	12	2 " "	155a
2 " "	16	1 " "	176
1 " "	17	2 " "	187
1 " "	18a	1 " "	188
3 " "	22	2 " "	189
1 " "	24	2 " "	190
4 " "	35	2 " "	191
56 " "	37a	1 " "	192
50 " "	37b	1 " "	199
2 " "	38	1 " "	200
2 " "	48a	2 " "	214
1 " "	52	1 " "	217a

3.27 ORGAN AND MONKEY

The $3\frac{1}{2}$ " Rod 1 slides in the central hole of a $5\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate that forms the top of the organ, and also in the hole of the $\frac{1}{2}$ " Reversed Angle Bracket 2, which is bolted to the Flexible Plate. The monkey is held on the Rod by a Double Bracket bolted to the $1\frac{1}{4}$ " Disc. The Double Bracket is prevented from sliding on the Rod by a Cord Anchoring Spring placed on the Rod between its arms.

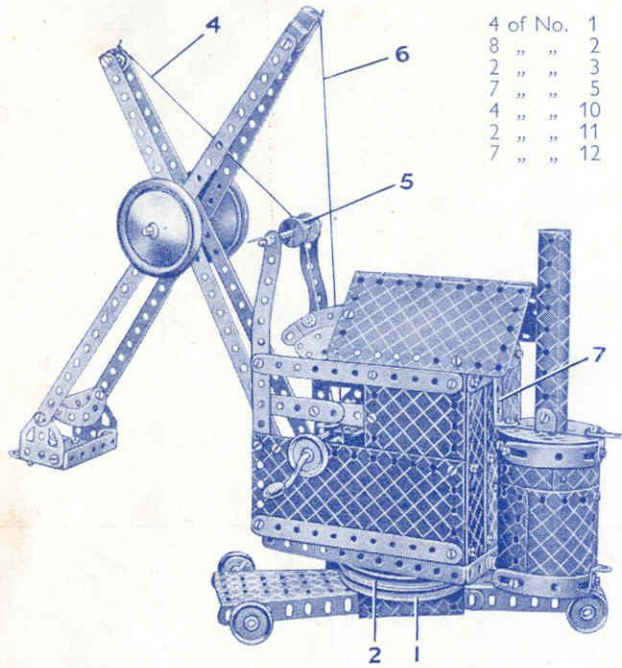
The $3\frac{1}{2}$ " Rod 3 turns in the Flanged Plate, and also in the third hole from the end in the bottom row of the $5\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flexible Plate 4. This Rod carries a Bush Wheel with a $2\frac{1}{2}$ " Strip bolted across its face. When the Crank Handle is turned, the end of the $2\frac{1}{2}$ " Strip first lifts and then allows to fall the 1" Pulley fastened on Rod 1, thus causing the monkey to jump up and down.

The left foot of the organ grinder is attached to one leg of the organ by a Double Bracket. His body consists of two Semi-Circular Plates and it is pivotally attached to his legs by a lock-nutted Bolt 5. A second lock-nutted Bolt 5 carries his arm, the other end of which is fitted on the Crank Handle.



Parts required			
6 of No.	2	4 of No.	90a
7 " "	5	4 " "	111c
4 " "	10	1 " "	125
2 " "	11	1 " "	126
6 " "	12	2 " "	126a
3 " "	16	1 " "	176
1 " "	19g	2 " "	187
4 " "	22	2 " "	188
1 " "	23	1 " "	189
1 " "	24	2 " "	190
2 " "	35	2 " "	191
55 " "	37a	2 " "	192
50 " "	37b	1 " "	212
4 " "	38	2 " "	214
2 " "	48a	2 " "	217a
1 " "	52		

4.26 MECHANICAL DIGGER



4 of No.	1
8 " "	2
2 " "	3
7 " "	5
4 " "	10
2 " "	11
7 " "	12

Parts required

4 of No.	12c
2 " "	15b
3 " "	16
2 " "	17
2 " "	19b
1 " "	19g
5 " "	22
1 " "	23
1 " "	24
8 " "	35
81 " "	37a
75 " "	37b
7 " "	38
1 " "	40
1 " "	44
1 " "	48
5 " "	48a
1 " "	51
1 " "	52
2 " "	54a

3 of No.	90a
5 " "	111c
2 " "	125
2 " "	126
2 " "	126a
1 " "	176
3 " "	187
2 " "	188
2 " "	189
4 " "	190
2 " "	191
2 " "	192
1 " "	198
2 " "	199
2 " "	200
1 " "	212
1 " "	213
2 " "	214
4 " "	215
2 " "	217a
2 " "	217b

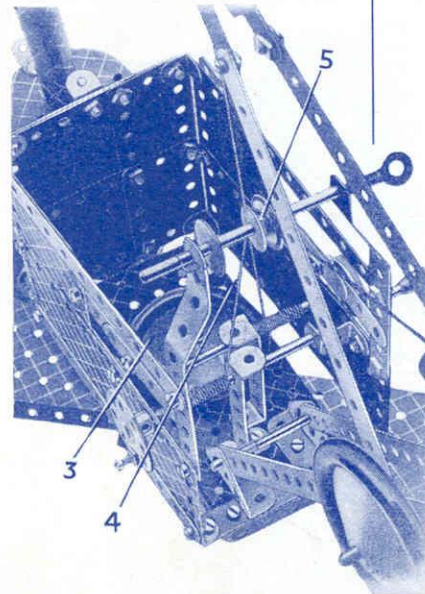
The bogie is constructed from two Flanged Sector Plates, the flanges of which are connected by two $2\frac{1}{2}$ " Strips. A gap of $\frac{1}{2}$ " is left between the ends of the Plates. A 3" Pulley 1 is then bolted boss downwards, to the Flanged Sector Plates by two $\frac{3}{8}$ " Bolts.

A 2" Rod is locked in the boss of Pulley 1, and on it is placed Pulley 2, boss downward. The base of the cab is a $5\frac{1}{2}$ " x $2\frac{1}{2}$ " Flanged Plate, which rests on Pulley 2 and is retained on the 2" Rod by a Road Wheel 3.

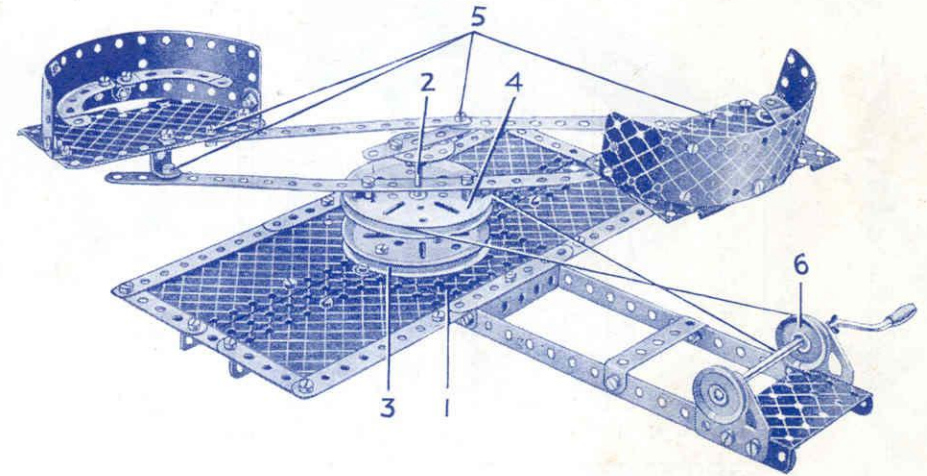
The construction of the cab is clear from the illustrations. The boiler comprises a cylinder built up from two $1\frac{1}{4}$ " radius Curved Plates, a $4\frac{1}{2}$ " x $2\frac{1}{2}$ " Flexible Plate, and two $5\frac{1}{2}$ " x $1\frac{1}{4}$ " Flexible Plates. The edges of the cylinder are strengthened with Formed Slotted Strips. Semi-Circular Plates are attached to the top of the boiler by a $2\frac{1}{2}$ " x $\frac{3}{4}$ " Double Angle Strip. The Chimney is a $4\frac{1}{2}$ " x $2\frac{1}{2}$ " Flexible Plate rolled into a tube and fixed in place by a Double Bracket. The boiler is fastened to the back of the cab by a $1\frac{1}{2}$ " x $\frac{1}{2}$ " Double Angle Strip 7 at the top, and by a $\frac{3}{8}$ " Bolt at the bottom, where it is spaced from the cab by three Washers.

The Cord 4 is taken over the $\frac{1}{2}$ " Pulley 5 and tied to the Double Bracket at the top of the jib. This $\frac{1}{2}$ " Pulley 5 is clamped loosely between the two $\frac{3}{8}$ " Discs by two Spring Clips to form a deep-grooved pulley.

The Cord 6 is wound around the Crank Handle and is tied to the Cranked Bent Strip at the top of the dipper stick.



4.27 "WHIP" ROUNDABOUT



Parts required

3 of No.	1	2 of No.	19b	1 of No.	40	2 of No.	188
7 " "	2	1 " "	19g	1 " "	48a	2 " "	189
2 " "	3	2 " "	22	1 " "	51	2 " "	191
4 " "	5	1 " "	24	1 " "	52	2 " "	192
4 " "	10	4 " "	35	2 " "	54a	1 " "	198
2 " "	11	65 " "	37a	4 " "	90a		
6 " "	12	52 " "	37b	6 " "	111c		
1 " "	17	8 " "	38	2 " "	126a		

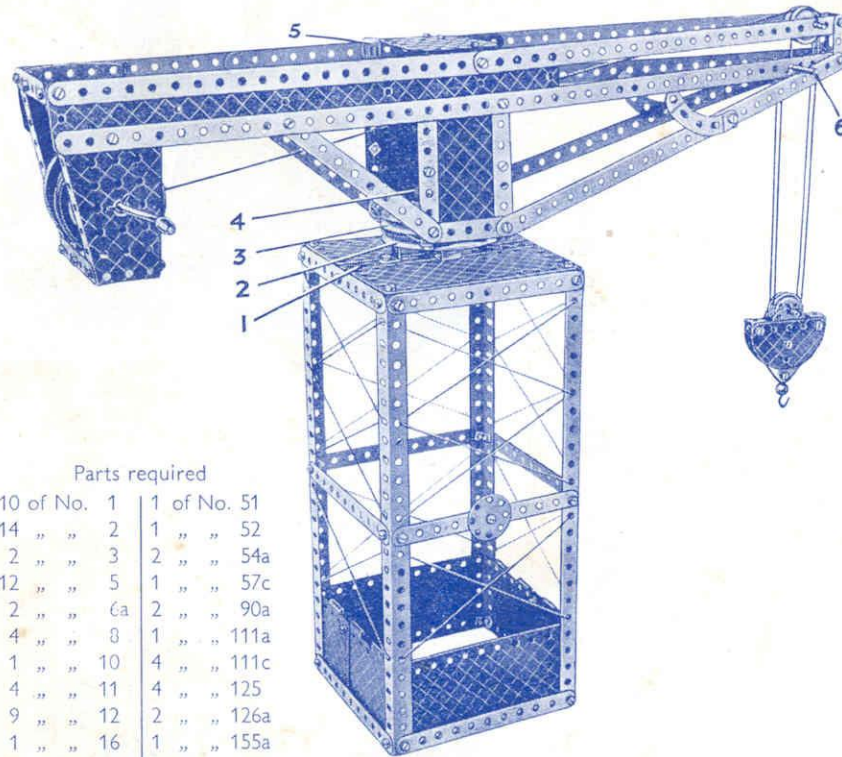
The base of the model is formed by a $5\frac{1}{2}$ " x $2\frac{1}{2}$ " Flanged Plate 1 extended on each side by a Flanged Sector Plate, a $5\frac{1}{2}$ " x $2\frac{1}{2}$ " and a $4\frac{1}{2}$ " x $2\frac{1}{2}$ " Flexible Plate. The edges of the base are strengthened with Strips. Two $12\frac{1}{2}$ " Strips are bolted to the flanges of Plate 1 and their ends are connected by a $2\frac{1}{2}$ " x $1\frac{1}{2}$ " Flanged Plate. Two Flat Trunnions provide bearings for a Small Crank Handle.

A 3" Pulley 3 is bolted to Flanged Plate 1 and in its boss is fixed a 2" Rod 2. A second 3" Pulley 4 is spaced from Pulley 3 by a Spring Clip and is free to turn on Rod 2. Across its face is bolted a $12\frac{1}{2}$ " Strip, the Strip being spaced from the Pulley by a Spring Clip and two Washers placed on the shank of each securing Bolt.

A Bush Wheel fitted with a $2\frac{1}{2}$ " Strip is secured on Rod 2 in the position shown, the end of the Strip being connected to the cars by $5\frac{1}{2}$ " Strips. All the Bolts 5 are lock-nutted.

The 1" Pulley 6 mounted on the Crank Handle, drives Pulley 4 through a belt of Cord.

5.26 HAMMERHEAD CRANE



Parts required

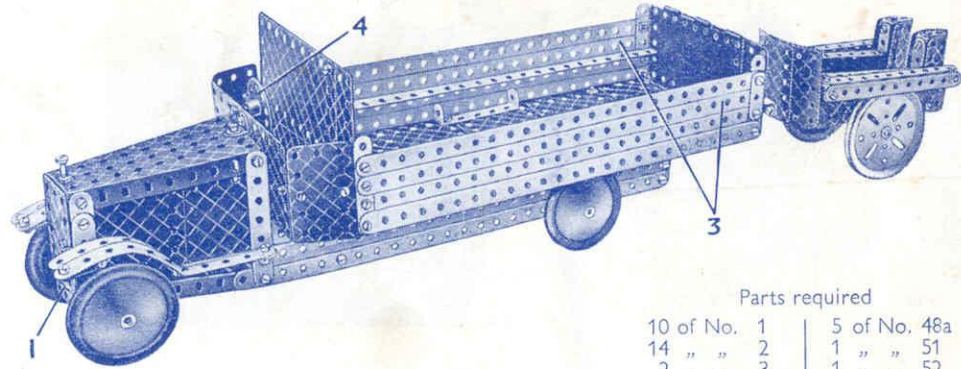
10 of No.	1	1 of No.	51
14	"	2	" " 52
2	"	3	" " 54a
12	"	5	" " 57c
2	"	6a	" " 90a
4	"	8	" " 111a
1	"	10	" " 111c
4	"	11	" " 125
9	"	12	" " 126a
1	"	16	" " 155a
1	"	17	" " 176
3	"	18a	" " 187
2	"	19b	" " 188
1	"	19g	" " 189
4	"	22	" " 190
2	"	22a	" " 191
10	"	35	" " 192
90	"	37a	" " 198
85	"	37b	" " 213
9	"	38	" " 214
1	"	40	" " 217a
2	"	48a	" " 48a

The top of the tower is filled in with a $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate 1 extended on each side by a $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flexible Plate. The 3" Pulley 2 on which the jib swivels is bolted to the tower by four Reversed Angle Brackets, and in its boss is secured a 2" Rod on which the 3" Pulley 3 is free to turn. A 1" Pulley 4 fitted with a Rubber Ring is fastened at the upper end of the 2" Rod and retains the jib in position on its pivot.

The $2\frac{1}{2}" \times 1\frac{1}{2}"$ Flanged Plate 5 is connected to the other side of the jib by a $2\frac{1}{2}" \times \frac{1}{2}"$ Double Angle Strip, on top of which is bolted a $2\frac{1}{2}" \times 2\frac{1}{2}"$ Flexible Plate.

The hoisting Cord is tied to the Crank Handle journaled in the Flanged Sector Plates at the rear end of the jib. It is then taken over one of two 1" Pulleys mounted at the front end of the jib, then down and around one of the 1" loose Pulleys in the pulley block, up and over the other 1" fast Pulley in the jib and around the other 1" loose Pulley of the Pulley block. Finally it is tied to a Flat Bracket in the middle of Rod 6.

5.27 ARMY LORRY AND TRAILER



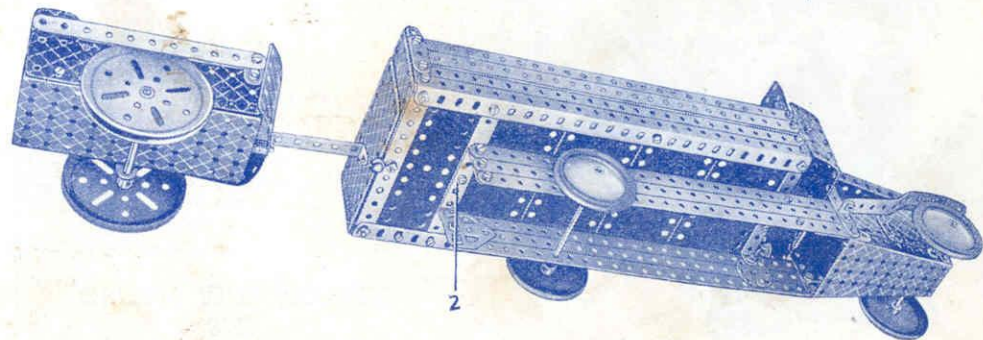
Parts required

10 of No.	1	5 of No.	48a
14	"	2	" " 51
2	"	3	" " 52
10	"	5	" " 54a
2	"	6a	" " 57c
4	"	8	" " 111a
6	"	10	" " 111c
2	"	11	" " 115
12	"	12	" " 126a
2	"	12a	" " 147b
2	"	12c	" " 187
1	"	15a	" " 188
1	"	15b	" " 189
2	"	16	" " 190
2	"	19b	" " 191
1	"	24	" " 192
4	"	35	" " 198
91	"	37a	" " 199
85	"	37b	" " 200
13	"	38	" " 217a

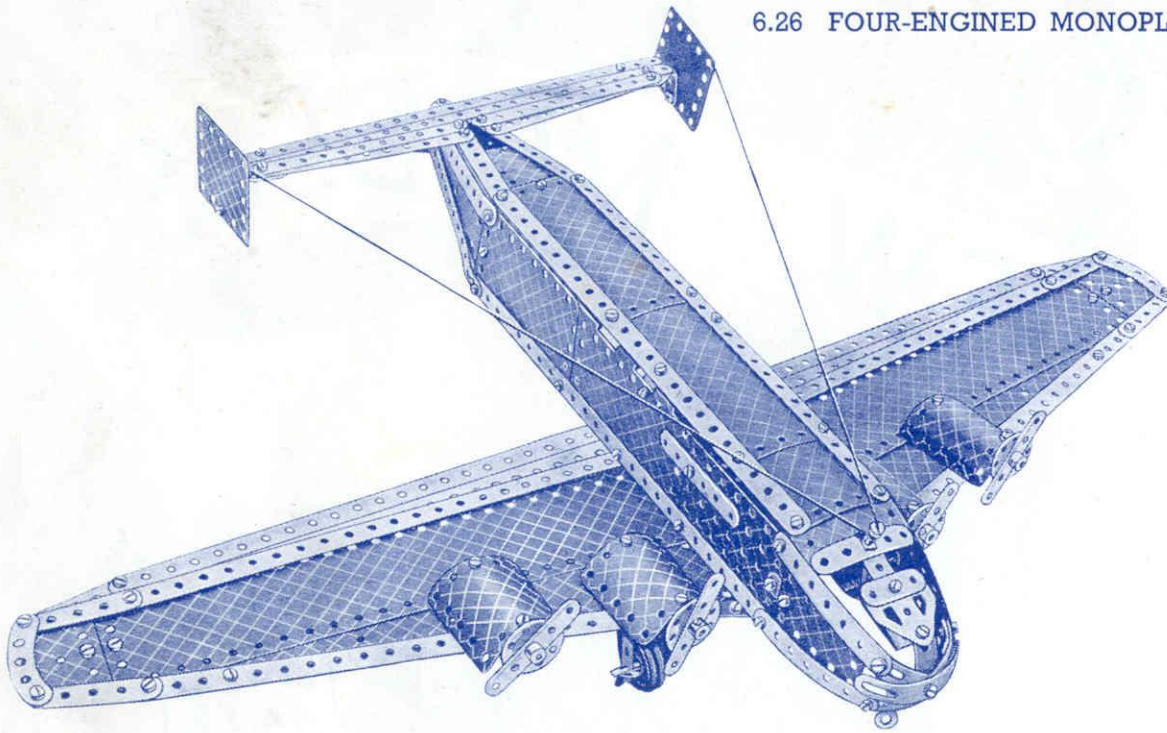
The front of the radiator is a $2\frac{1}{2}" \times 1\frac{1}{2}"$ Flanged Plate 1 extended at its upper edge by a $2\frac{1}{2}" \times 1\frac{1}{2}"$ Flexible Plate. The rear end of the chassis is fastened to the body by a $2\frac{1}{2}" \times \frac{1}{2}"$ Double Angle Strip 2, the turned up ends of which are bolted between the Trunnions and the $12\frac{1}{2}"$ Strips.

The rear ends of the Strips 3 are clamped between the $1\frac{1}{2}"$ Strips and the $2\frac{1}{2}"$ Strips forming the uprights at the sides of the body. The Bush Wheel 4 representing the steering wheel is locked on a Threaded Pin.

Eight Washers are used to space the two $1\frac{1}{2}"$ radius Curved Plates forming the front of the trailer from the $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate.



6.26 FOUR-ENGINE MONOPLANE



Parts required

12 of No. 1	3 of No. 18a	2 of No. 90	4 of No. 189
10 " " 2	4 " " 22	4 " " 90a	5 " " 190
4 " " 3	1 " " 23	1 " " 111	2 " " 191
2 " " 4	7 " " 35	2 " " 111a	4 " " 192
11 " " 5	108 " " 37a	6 " " 111c	2 " " 197
2 " " 6a	99 " " 37b	1 " " 115	1 " " 198
2 " " 8	3 " " 38	4 " " 125	2 " " 199
6 " " 10	1 " " 40	3 " " 126a	2 " " 200
6 " " 12	2 " " 48a	1 " " 147b	1 " " 212
2 " " 12a	2 " " 53	4 " " 155a	2 " " 214
6 " " 12c	4 " " 59	4 " " 188	4 " " 215

4 of No. 217a

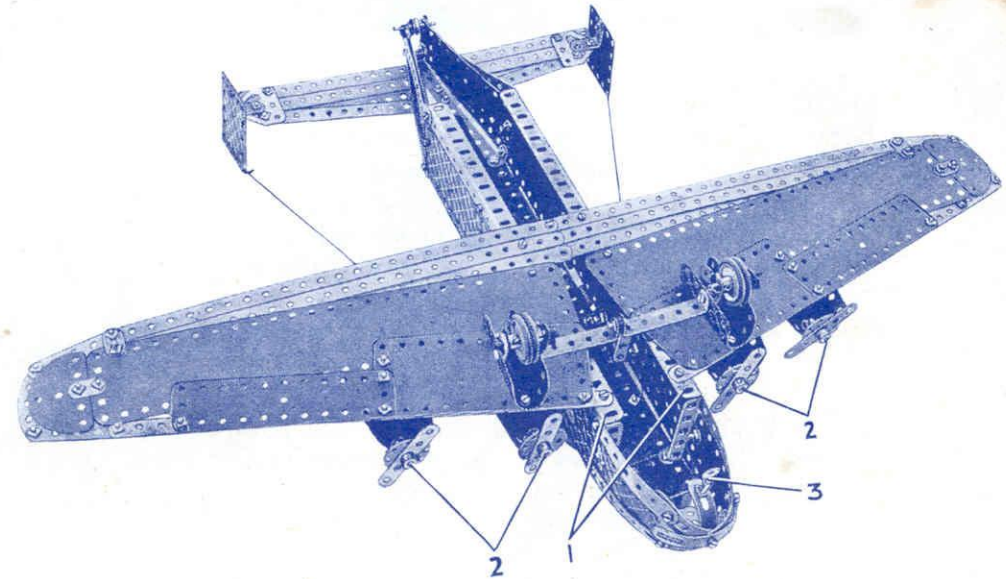
The sides of the fuselage are constructed on two 12 1/2" Angle Girders 1, and as they are identical their construction can be followed from the illustration above. The fuselage top is connected to the sides by Obtuse Angle Brackets. The tail of the fuselage is tapered to a point with 5 1/2" Strips and 5 1/2" x 1 1/2" Flexible Plates, the upper Strips being joined by two Angle Brackets. Two 3 1/2" Strips and a 2 1/2" x 1 1/2" Flexible Plate form each side of the forward part of the fuselage, and the nose is made up of four Formed Slotted Strips bolted together through their centre holes.

Three 12 1/2" Strips form the trailing edge of each wing, and the leading edge also is a 12 1/2" Strip. These are lengthened with 2 1/2" Strips and are connected by a 2 1/2" Curved Strip at the tip, the framework so formed being filled in with a 12 1/2" Strip Plate, a 5 1/2" x 2 1/2" and a 5 1/2" x 1 1/2" Flexible Plate. A Semi-Circular Plate completes the tip.

The engine nacelles are 1 1/4" radius Curved Plates and 2 1/2" x 2 1/2" Flexible Plates, which are connected to the wings by Reversed Angle Brackets. A 1 1/2" Disc is attached to the front of each nacelle by an Angle Bracket. The shanks of the 3/8" Bolts 2 form propeller shafts on which the propellers, 2 1/2" Strips, are retained by Collars.

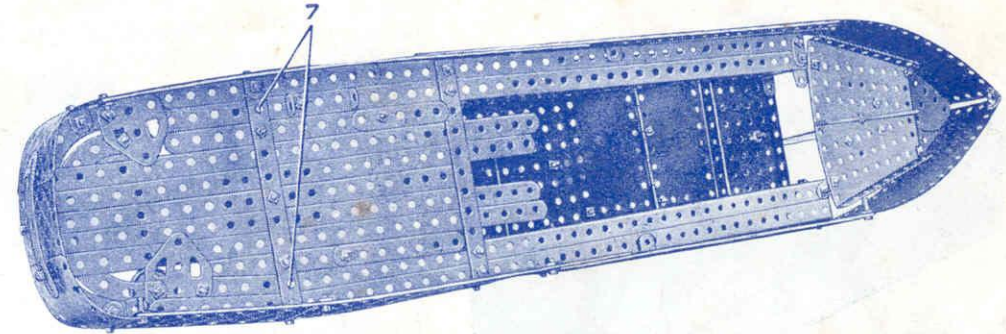
U-Section Curved Plates bolted underneath the wings form supports for 2 1/2" Curved Strips, which provide bearings for the landing wheel axles. The axles are 1 1/2" Rods, and each carries two 1" Pulleys.

A direction-finding aerial is represented by Rod and Strip Connector 3 mounted on a Threaded Pin.



6.27 STEAM TUGBOAT

		Parts required			
12 of No.	1	11 of No.	12	2 of No.	22a
14 " "	2	2 " "	12a	1 " "	23
4 " "	3	2 " "	12c	1 " "	23a
2 " "	4	2 " "	15	1 " "	24
12 " "	5	1 " "	15b	7 " "	35
2 " "	6a	2 " "	16	111 " "	37a
4 " "	8	1 " "	17	104 " "	37b
8 " "	10	1 " "	18a	20 " "	38
3 " "	11	5 " "	22	1 " "	40
		2 " "		2 " "	48
		8 " "		2 " "	48a
		2 " "		2 " "	48b
		1 " "		1 " "	51
		1 " "		1 " "	52
		2 " "		1 " "	53
		2 of No.	54a	1 " "	57c
		4 " "	59	4 " "	59
		1 " "	80c	1 " "	90
		4 " "	90a	2 " "	111
		1 " "	111a	2 " "	111c
		6 " "	115	2 " "	125
		2 " "	126	4 " "	126a
		4 " "	155a	1 " "	176
		4 " "	189	6 " "	190
		2 " "	191	4 " "	192
		2 " "	197	1 " "	198
		2 " "	199	2 " "	200
		1 " "	212	2 " "	213
		2 " "	214	4 " "	215
		1 " "	216	4 " "	217a



Both sides of the hull are constructed alike. The rounded stern is formed by two $1\frac{1}{8}$ " radius Curved Plates and one $2\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flexible Plate. The sides are spaced $5\frac{1}{2}$ " apart amidships.

The deckhouse is based on two $12\frac{1}{2}$ " Angle Girders. The latter are supported at the rear on a $5\frac{1}{2}$ " Strip, the ends of which are bolted to further $12\frac{1}{2}$ " Angle Girders fixed to the sides of the hull. The Angle Girders are supported at their front ends by Flat Brackets.

The deckhouse sides each consist of two $12\frac{1}{2}$ " Strips, clamped at their front ends between pairs of $1\frac{1}{2}$ " Strips and at their rear ends between Flat Trunnions and Flat Brackets. Two $3\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flanged Plates, which are connected together by joining their flanges with $5\frac{1}{2}$ " Strips, form the roof of the deckhouse. The stern end of the deckhouse is completed by bolting $3\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strips between the $12\frac{1}{2}$ " Angle Girders and the flanges of the rear Flanged Plate. Two $1\frac{1}{4}$ " Discs and a ladder represented by two $2\frac{1}{2}$ " Strips bolted to a Double Bracket, are attached to the upper $3\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip.

The foredeck comprises two Flanged Sector Plates and two Semi-Circular Plates. The aft deck is completed with Strips of various sizes, which are bolted together in the manner shown in the underneath view of the hull.

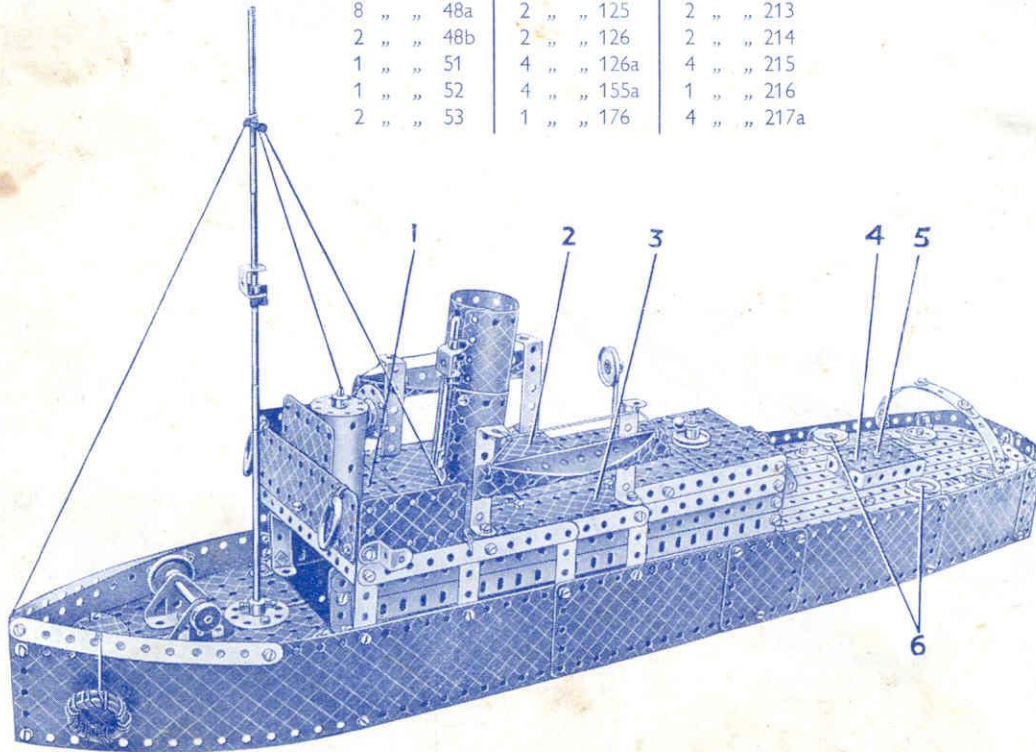
The hatchway 4 is constructed from a $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flanged Plate with $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strips bolted between its flanges. It is held in position by a $\frac{3}{8}$ " Bolt 5, Washers being used to space it from the deck.

The 1" Pulleys 6 are fastened on the shanks of $\frac{3}{8}$ " Bolts 7 pushed up through the deck.

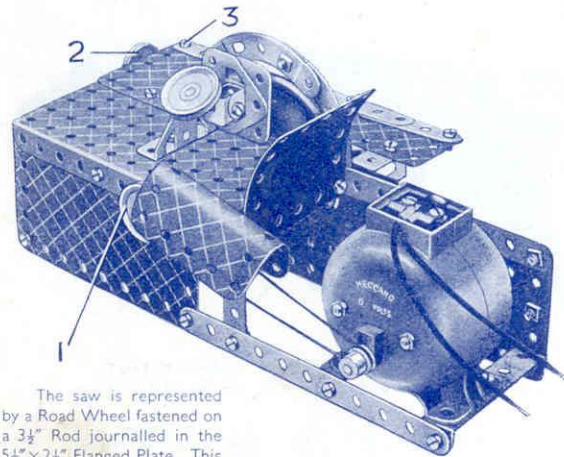
The forward part of the bridge deck is filled in with a $5\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flanged Plate 1, a $4\frac{1}{2}$ " \times $2\frac{1}{2}$ " Hinged Flat Plate 2 and a $5\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plate 3. The steering wheel is a $1\frac{1}{4}$ " Disc fitted with a Threaded Pin, and it is mounted on a 1" Rod passed through a hole in a $2\frac{1}{2}$ " Cylinder and retained in place by Collars. The Cylinder is fixed to the bridge by a $3\frac{1}{2}$ " Rod and Collars.

The funnel comprises two U-Section Curved Plates, two $2\frac{1}{2}$ " \times $2\frac{1}{2}$ " and two $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flexible Plates, all of which are bolted together to form a cylinder. It is attached to the bridge deck by a $1\frac{1}{2}$ " \times $1\frac{1}{2}$ " Angle Bracket.

Behind the funnel is a ventilator, the mouth of which is formed by a 1" Pulley on the end of a 3" Screwed Rod. The Rod is passed through a hole in the deck and is held in place by Nuts.



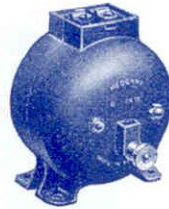
CIRCULAR SAW (Outfit No. 2)



The saw is represented by a Road Wheel fastened on a $3\frac{1}{2}$ " Rod journalled in the $5\frac{1}{2}$ " x $2\frac{1}{2}$ " Flanged Plate. This Rod carries a 1" Pulley 1 connected by a Driving Band to the Motor pulley.

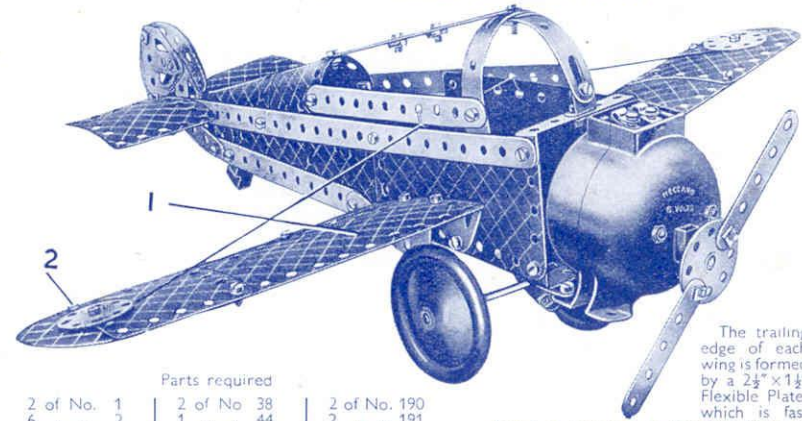
The 1" Pulley 2 is fixed to a $2\frac{1}{2}$ " Strip bolted to the Flanged Plate and an Angle Bracket held by Bolt 3.

Parts required	
4 of No.	2
6 " "	5
6 " "	12
1 " "	16
3 " "	22
37 " "	37
1 " "	37a
2 " "	38
2 " "	48a
1 " "	52
2 " "	90a
3 " "	111c
1 " "	125
2 " "	126
2 " "	126a
1 " "	186b
1 " "	187
2 " "	188
2 " "	189
2 " "	190
1 " "	191
1 " "	199
2 " "	200
1 EO6 or EO20 Electric Motor	

MECCANO
ELECTRIC MOTORS
Nos. EO6 and EO20

The Nos. EO6 and EO20 Meccano Electric Motors are realistic models of the all-enclosed type of motor used in actual engineering. The No. EO6 (6-volt) Motor can be run from A.C. mains through a Meccano T6, T6A or T6M Transformer, or from a 6-volt accumulator. The No. EO20 (20-volt) Motor is operated from A.C. mains through a Meccano T20, T20A or T20M Transformer. The Motors are non-reversing.

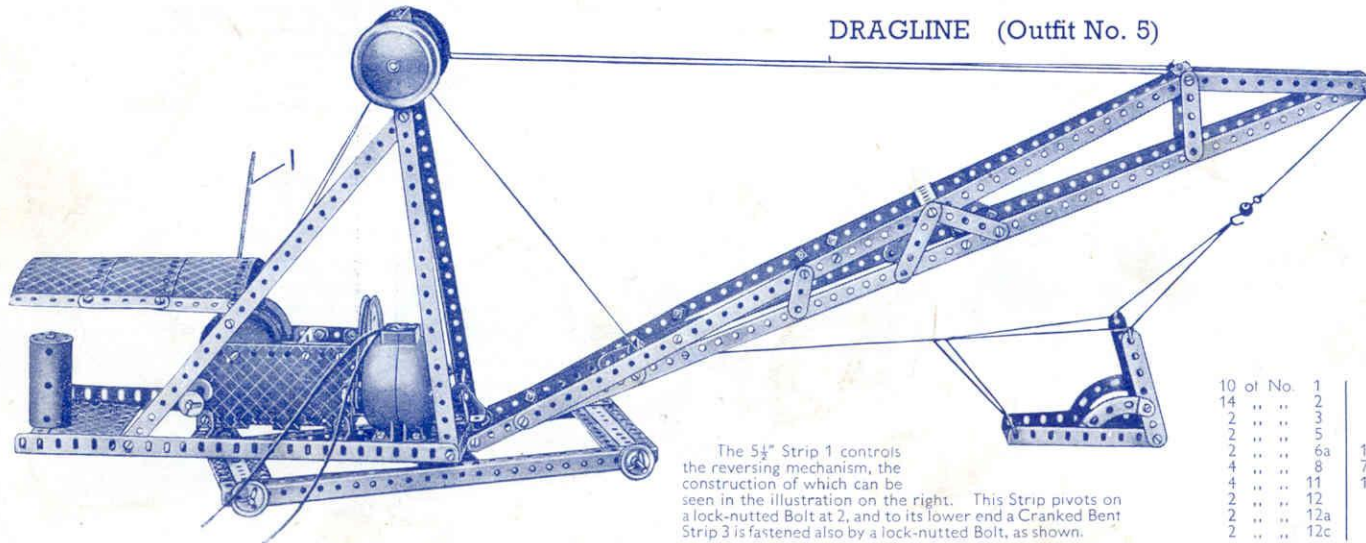
CABIN MONOPLANE (Outfit No. 3)



The trailing edge of each wing is formed by a $2\frac{1}{2}$ " x $1\frac{1}{2}$ " Flexible Plate, which is fastened at the rear of Flexible Plate 1, and a $5\frac{1}{2}$ " Strip. The Strip is secured at one end to the $2\frac{1}{2}$ " x $1\frac{1}{2}$ " Flexible Plate, and its other end is held by Bolt 2. The Motor is mounted on two Flat Brackets that are bolted to a $2\frac{1}{2}$ " x $1\frac{1}{2}$ " Double Angle Strip fastened between the sides of the fuselage.

Parts required		Parts required		Parts required	
2 of No.	1	2 of No.	38	2 of No.	190
6 " "	2	1 " "	44	2 " "	191
6 " "	5	2 " "	48a	2 " "	192
4 " "	10	4 " "	90a	2 " "	199
3 " "	12	6 " "	111c	2 " "	200
1 " "	15b	2 " "	126	2 " "	214
2 " "	22	2 " "	126a	3 " "	215
1 " "	24	2 " "	187	2 " "	217a
48 " "	37	2 " "	188	1 EO6 or EO20 Electric Motor	
6 " "	37a	2 " "	189		

DRAGLINE (Outfit No. 5)



The $5\frac{1}{2}$ " Strip 1 controls the reversing mechanism, the construction of which can be seen in the illustration on the right. This Strip pivots on a lock-nutted Bolt at 2, and to its lower end a Cranked Bent Strip 3 is fastened also by a lock-nutted Bolt, as shown.

Parts required		Parts required		Parts required	
10 of No.	1	1 of No.	45	1 " "	48
14 " "	2	1 " "	48a	7 " "	48a
2 " "	3	1 " "	51	1 " "	52
2 " "	5	1 " "	52	2 " "	54a
2 " "	6a	1 " "	57c	1 " "	80c
4 " "	8	2 " "	80c	2 " "	90a
4 " "	11	2 " "	111c	2 " "	126
2 " "	12	1 " "	126	1 " "	155a
2 " "	12a	1 " "	15b	1 " "	176
2 " "	12c	3 " "	16	1 " "	186
		1 " "	18a	1 " "	186b
		1 " "	18b	4 " "	187
		2 " "	19b	2 " "	189
		1 " "	19g	3 " "	190
		5 " "	22	3 " "	192
		2 " "	22a	1 " "	198
		1 " "	23	1 " "	212
		1 " "	24	1 " "	213
		14 " "	35	2 " "	214
		78 " "	37	1 " "	216
		13 " "	37a	1 " "	217a
		1 " "	38	2 " "	217b
		1 " "	40	1 EO6 or EO20 Electric Motor	
		1 " "	44		

