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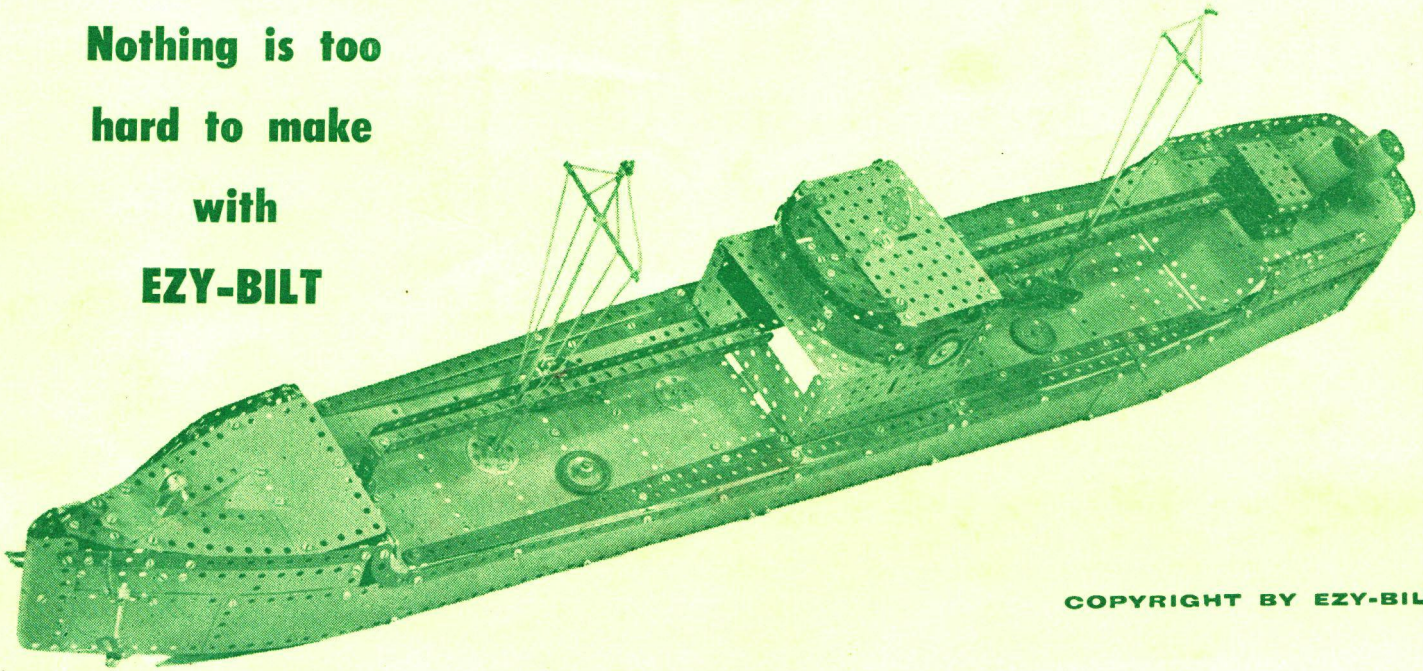
EZY-BILT

REGISTERED

THE MASTER TOY

SUPER 9 INSTRUCTION BOOK

Nothing is too hard to make with EZY-BILT



Spare Parts Procurable

ALL PARTS INTERCHANGEABLE

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FOR THE NEW OWNER

In order to get the most out of your super 9 EZY-BILT, we suggest you start to build the models in the 1-5 book, then construct those illustrated in 6-8, and finally in the super 9 book. In this way you will learn many interesting facts about model building that will make the larger models so much more fun to build. Remember to keep your parts in the trays and so avoid losing them. If you have any queries, write direct to EZY-BILT LTD., 630 Port Road, Kilkenny, S.A.

EZY-BILT LIMITED are continually adding to their range of spare parts and accessories, so keep in touch with your EZY-BILT shop for news of extra parts and fittings. Spare Parts stockists are listed on the parts price list in each set.

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EZY-BILT — THE MASTER TOY

LEAD FREE **MADE IN AUSTRALIA**

SUPER - 9 - SET

The advances of modern mechanical and civil engineering provide many and varied possibilities for the EZY-BILT owner. The opportunity to adapt, develop or copy new equipment is an incentive and exciting challenge to the engineer, scientist, tradesman, architect, builder and designer of tomorrow who along with all EZY-BILT owners will learn to accept and know the function of basic principles which will be of long lasting value to them in mature years. Many large manufacturing concerns have recognised the value of EZY-BILT parts for the manufacture of prototype models and for research. Their continued use of this medium is further proof that the "built in" accuracy and finish of EZY-BILT is of a high standard.

EZY-BILT model making is a hobby without end and enables boys of all ages to build models that work just like the original. EZY-BILT parts are designed to be interchangeable and match each other and are controlled to very fine tolerances, and are similar to 'the real thing' Bolts and nuts, angle and flat girders, cranks, pulleys, etc, are assembled with spanner and screwdriver, simply, and strong enough to hold together the most complicated model.

HAVE FUN WITH EZY-BILT

The range of parts available make it possible for boys to build a limitless number of models. EZY-BILT is more than a toy, it is a 1,000 toys in one. The super 9 has 1045 parts and the three instruction books illustrate 266 models. With skill and ingenuity the owner can also design and build his own models or adapt and alter existing models. There is truthfully no end to the possibilities of EZY-BILT, the Master Toy.

Manufactured in South Australia by EZY-BILT LTD. 630-632 Port Road, Kilkenny

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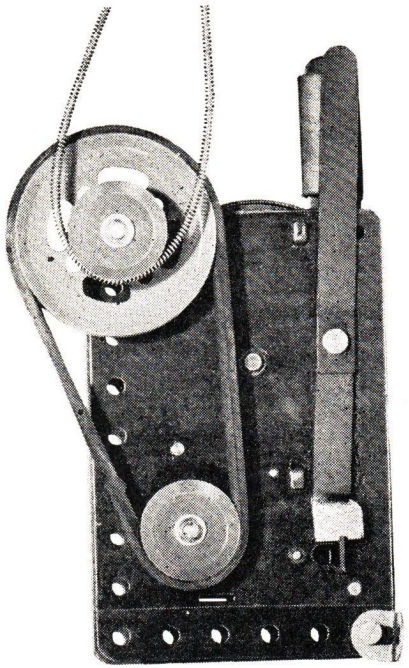
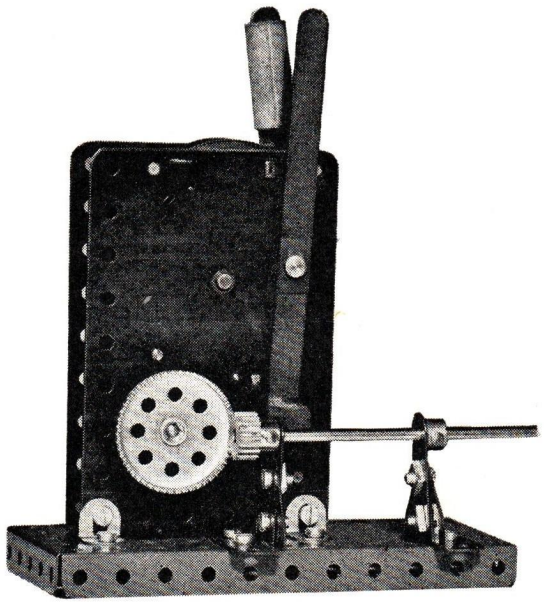
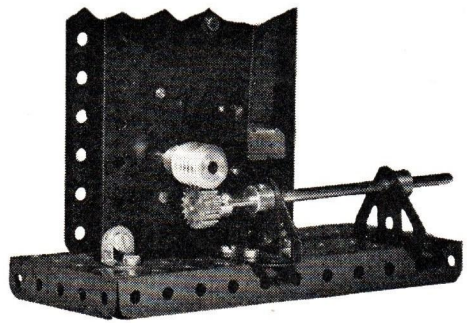
A Clock-Work Motor built especially for Ezy-Bilt has been included in the Super 9 set to allow more realistic use to be made of the models. Drive or power can be transmitted by belt, pinion or worm. We suggest you experiment with the various drives, learn about them, and then apply them to your models.



Belt take off



Gear and Pinion



Worm and Pinion

A very necessary method of joining parts together securely and yet leaving them free to rotate or pivot, is that of lock nutting — simply bolt parts together as usual then screw a second nut up to the first and, using two spanners, pull the first nut back against the second and so lock them together.

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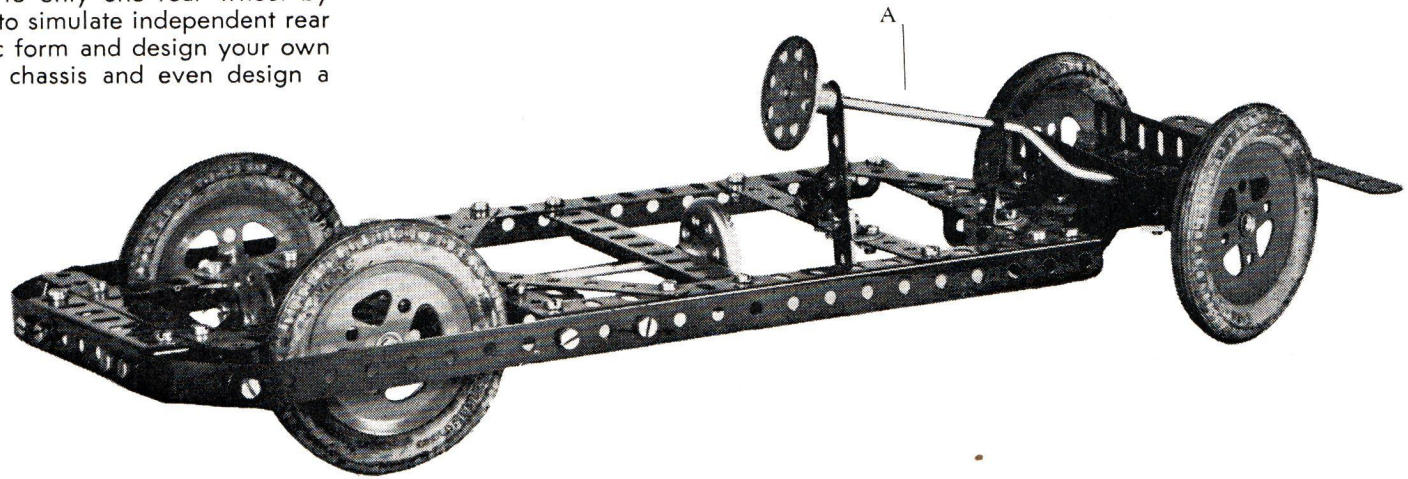
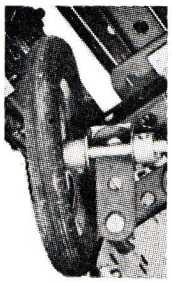
9-1

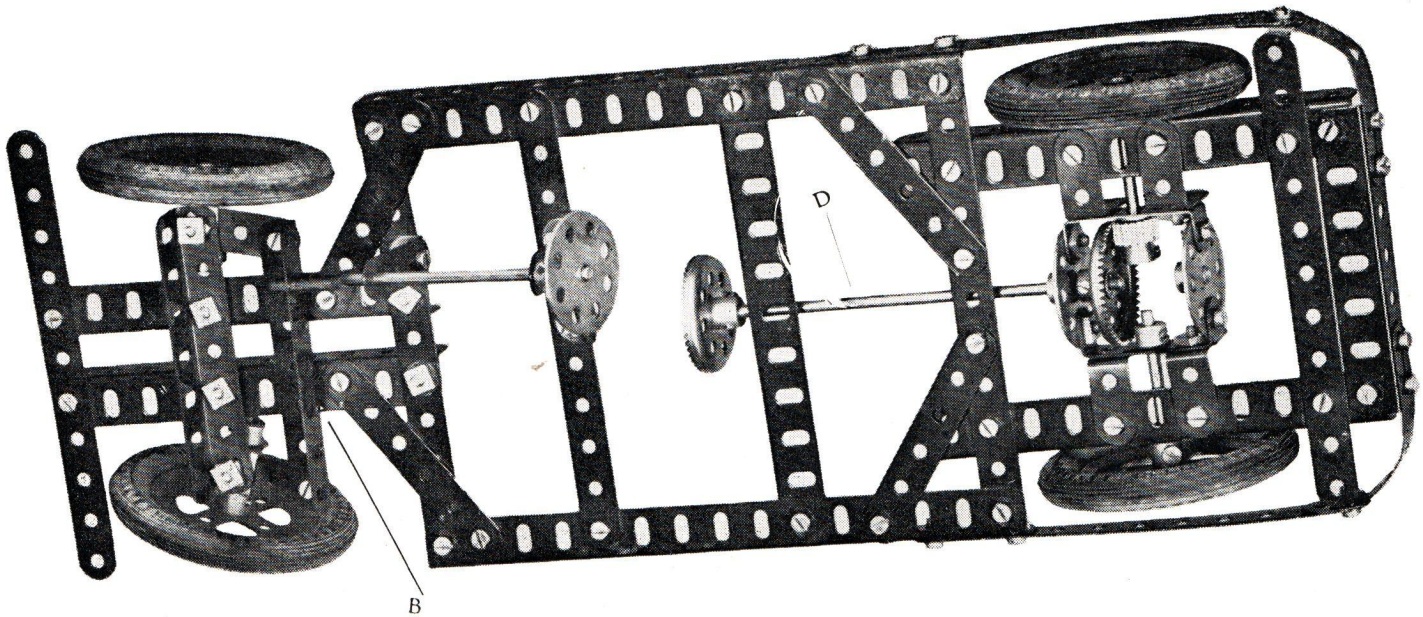
EZY - BILT SUPER 9

A simple, but effective, steering mechanism is shown below mounted on a chassis that can be used for many types of vehicles. The steering column support "A" would need to be stayed to whatever cabin or body design is used. A 3½" or 5½" crank gives a lateral movement to the 3½" girder "B" which pivots the king pin "C" as per the sketch. In order that a differential action be used for motor driven models the drive shaft "D" is connected to only one rear wheel by means of a contrate wheel and pinion "E" to simulate independent rear wheel drive. Why not start with this basic form and design your own utility, car or truck? You can extend the chassis and even design a twin axle rear drive for heavy duty.





King Pin detail



PARTS REQUIRED

CHASSIS

2	only	No.	1
4	,,	,,	4
4	,,	,,	7
3	,,	,,	32
2	,,	,,	33
3	,,	,,	34
2	,,	,,	35
2	,,	,,	41
2	,,	,,	53
2	,,	,,	60
4	,,	,,	62
4	,,	,,	96
2	,,	,,	101
2	,,	,,	100
1	,,	,,	110
3	,,	,,	113
2	,,	,,	115
1	,,	,,	117
3	,,	,,	120

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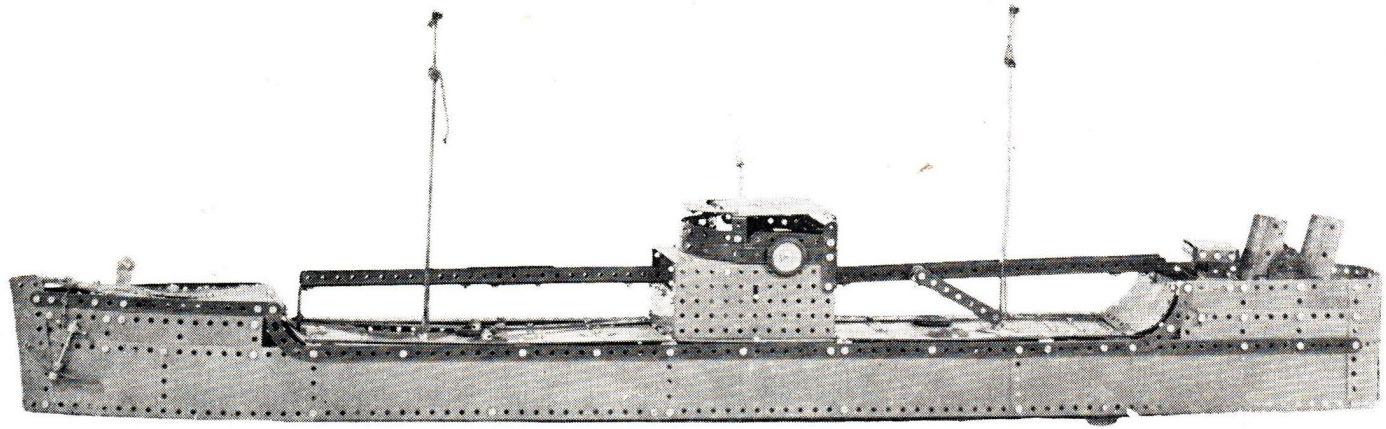
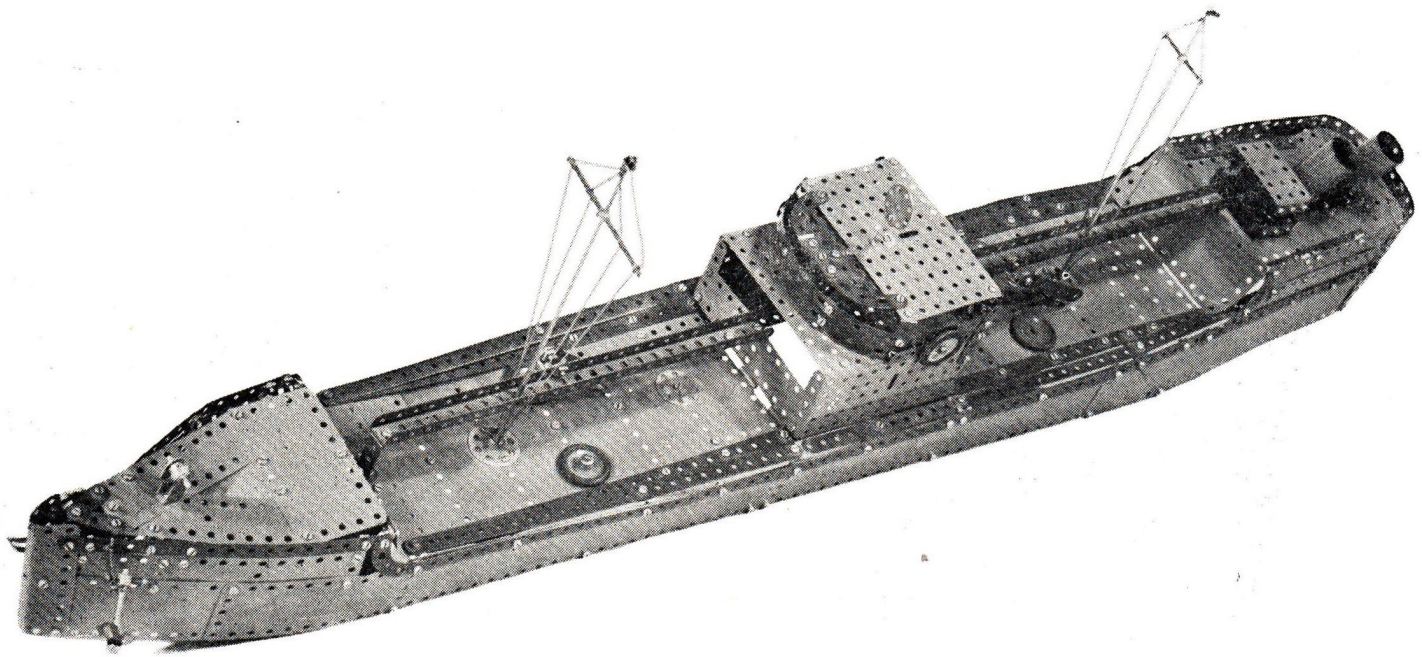


PARTS REQUIRED

OIL TANKER

3	of No.	1
8	„ „	3
2	„ „	4
3	„ „	5
8	„ „	7
2	„ „	8
2	„ „	9
12	„ „	10
8	„ „	37
1	„ „	41
4	„ „	42
4	„ „	50
2	„ „	51
8	„ „	53
2	„ „	56
25	„ „	59
2	„ „	60
2	„ „	67
2	„ „	69
2	„ „	71
2	„ „	75
8	„ „	76
3	„ „	77
5	„ „	78
12	„ „	79
6	„ „	81
2	„ „	83
6	„ „	84
2	„ „	87
1	„ „	89
4	„ „	90
6	„ „	91
4	„ „	95
1	„ „	99
4	„ „	101
2	„ „	105
2	„ „	108
2	„ „	113
2	„ „	114
2	„ „	121
2	„ „	125
2	„ „	127
4	„ „	141

Two No. 37 girders are bolted to the Flex Strips at "A," and are joined together at deck level with overlapping No. 10 strips. These are tapered two holes from each end to give rigidity and to make support for the decking. Bridge superstructure uses four strips for the walk. No. 76 strip lifts forecastle above deck, and No. 50 and No. 88 make any forard Bollard. Radar scope uses 114 bolted to 42.



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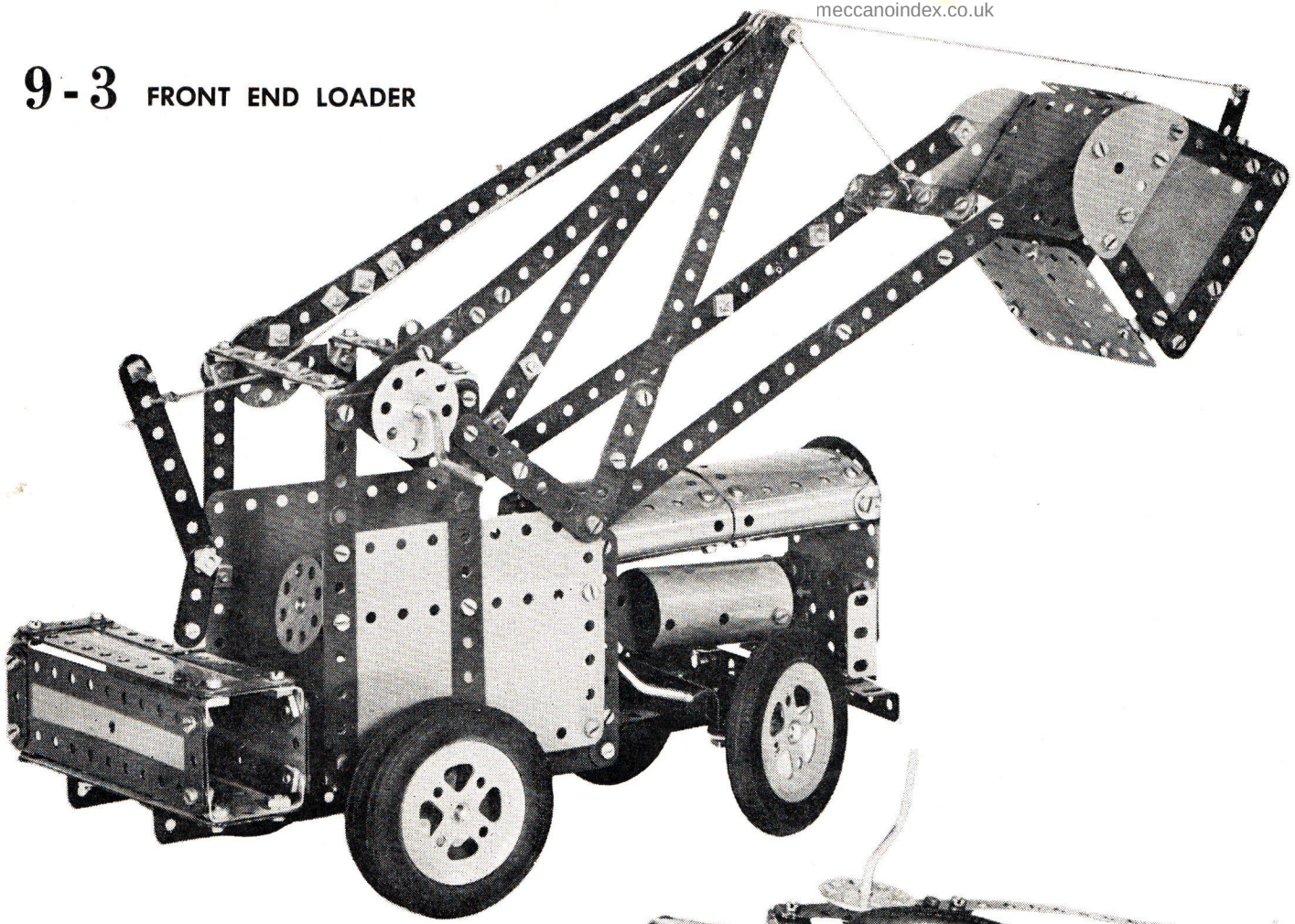
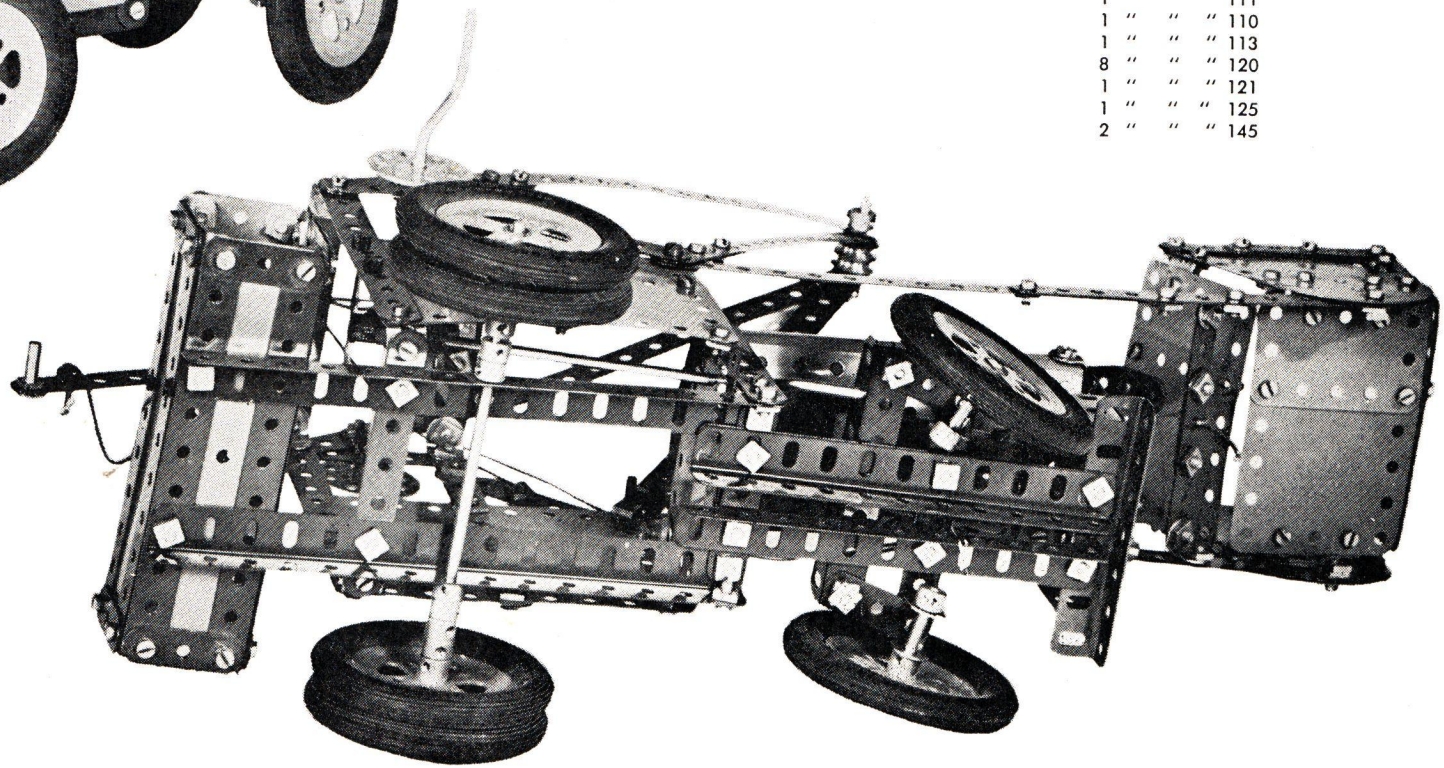
9 - 3 FRONT END LOADER



PARTS REQUIRED

FRONT END LOADER

8	of	Part	No.	1
16	"	"	"	3
4	"	"	"	5
14	"	"	"	7
6	"	"	"	8
2	"	"	"	32
1	"	"	"	33
2	"	"	"	42
5	"	"	"	43
1	"	"	"	50
16	"	"	"	59
1	"	"	"	62
1	"	"	"	69
4	"	"	"	34
5	"	"	"	75
4	"	"	"	78
7	"	"	"	77
4	"	"	"	79
4	"	"	"	84
2	"	"	"	86
1	"	"	"	87
2	"	"	"	88
6	"	"	"	92
6	"	"	"	96
3	"	"	"	99
1	"	"	"	106
1	"	"	"	111
1	"	"	"	110
1	"	"	"	113
8	"	"	"	120
1	"	"	"	121
1	"	"	"	125
2	"	"	"	145



Chassis 2 No. 35 girder fixed by No. 3 strip at the front with No. 34 girder overlapped ½".

Steering as earlier described.

Engine cover and grille. Grille No. 69 plate with No. 77 plate overlapped 1". Cover No. 84 plate for top and bottom with No. 85 for the side. The two sections fixed together by flat brackets.

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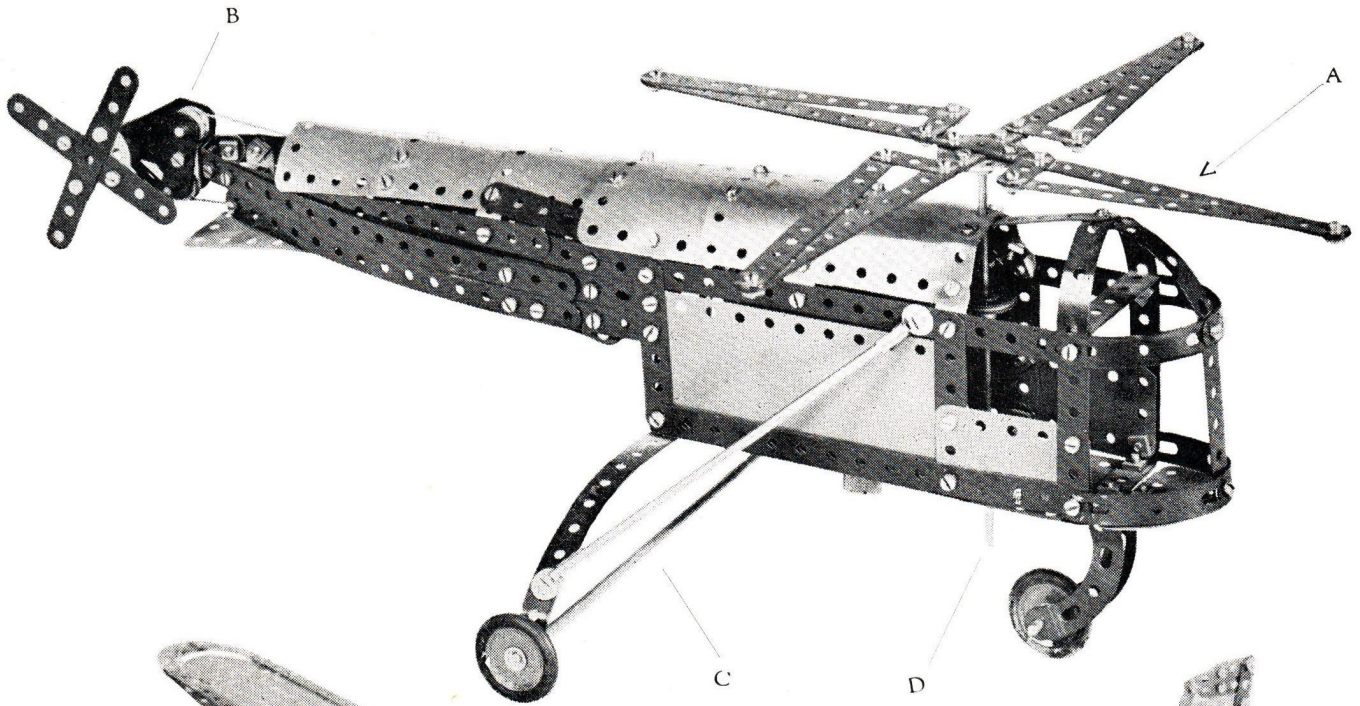
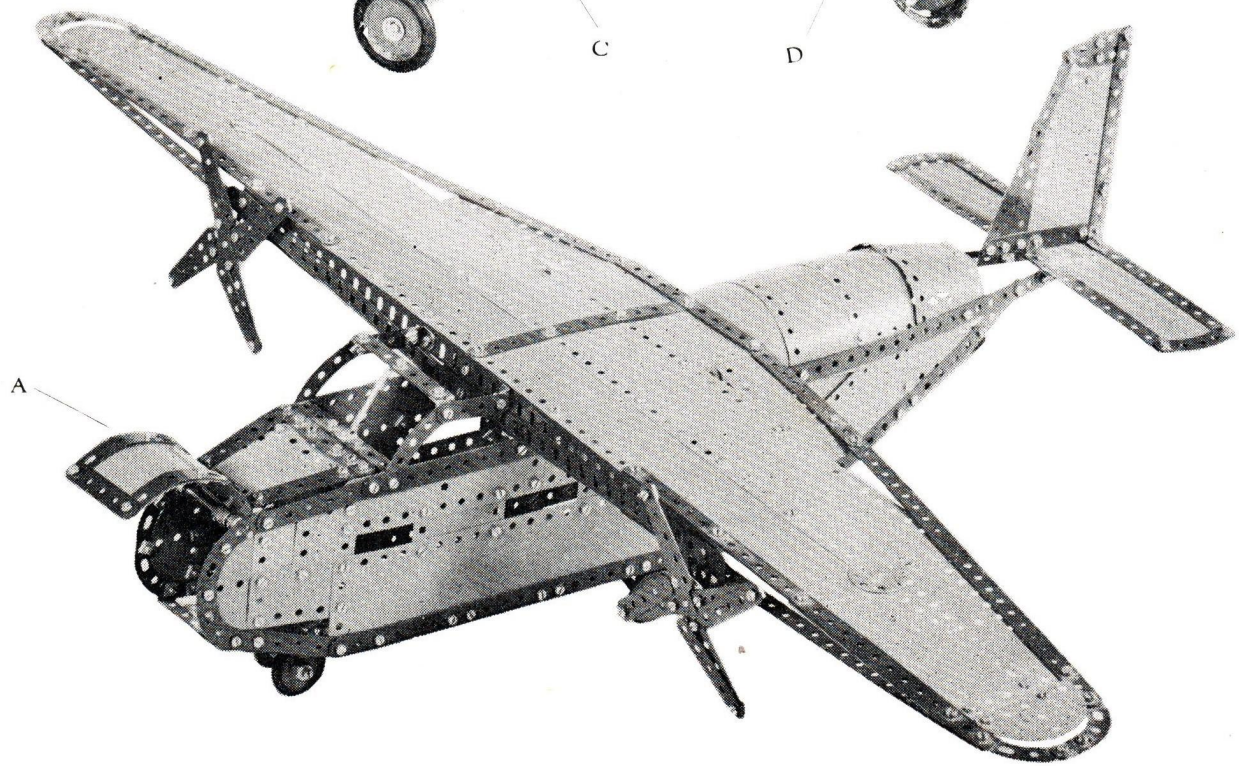
9 - 4 HELICOPTER

The drive for the rotor and directional propellor is by cord thro' a pulley at "A," over three brass pulleys at the rear—these are held between two flat trunnions mounted on bracket 60, and locked with a collar 120 at "B". A further pulley at "C" and "D" will provide movement when wheeling the helicopter.





PARTS REQUIRED

HELICOPTER

4	of	No.	1
3	„	„	3
11	„	„	4
4	„	„	5
4	„	„	6
10	„	„	8
2	„	„	10
3	„	„	42
2	„	„	50
7	„	„	53
2	„	„	56
2	„	„	59
3	„	„	60
6	„	„	65
8	„	„	75
4	„	„	77
3	„	„	79
6	„	„	84
1	„	„	86
3	„	„	89
4	„	„	91
3	„	„	95
3	„	„	99
1	„	„	101
3	„	„	106
1	„	„	108
2	„	„	113
1	„	„	120
4	„	„	127

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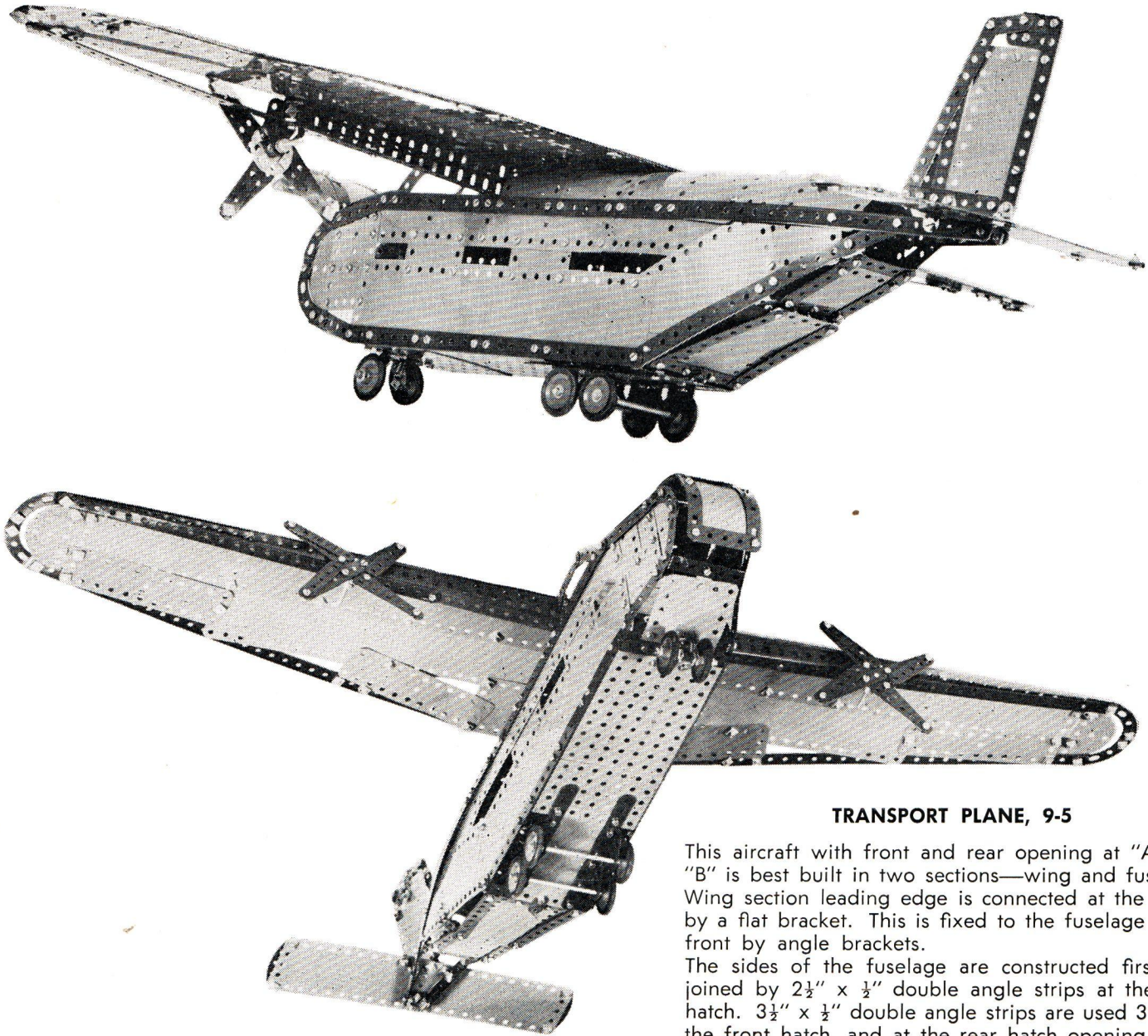

PARTS REQUIRED

CARGO PLANE

4	of	Part	No.	1
2	"	"	"	2
16	"	"	"	3
6	"	"	"	4
5	"	"	"	5
2	"	"	"	6
16	"	"	"	7
2	"	"	"	9
12	"	"	"	10
2	"	"	"	37
1	"	"	"	38
3	"	"	"	43
1	"	"	"	49
8	"	"	"	50
4	"	"	"	51
4	"	"	"	53
4	"	"	"	55
2	"	"	"	56
13	"	"	"	58
14	"	"	"	59
2	"	"	"	60
3	"	"	"	70
8	"	"	"	75
10	"	"	"	76
5	"	"	"	77
4	"	"	"	78
7	"	"	"	79
6	"	"	"	81
6	"	"	"	84
4	"	"	"	86
6	"	"	"	91
6	"	"	"	95
1	"	"	"	99
3	"	"	"	100
2	"	"	"	102
1	"	"	"	103
2	"	"	"	113
2	"	"	"	114
6	"	"	"	120
1	"	"	"	121
2	"	"	"	127
10	"	"	"	134
14	"	"	"	140
2	"	"	"	146

TRANSPORT PLANE, 9-5

This aircraft with front and rear opening at "A" and "B" is best built in two sections—wing and fuselage. Wing section leading edge is connected at the centre by a flat bracket. This is fixed to the fuselage at the front by angle brackets.

The sides of the fuselage are constructed first, and joined by $2\frac{1}{2}$" x $\frac{1}{2}$" double angle strips at the front hatch. $3\frac{1}{2}$" x $\frac{1}{2}$" double angle strips are used 3" from the front hatch, and at the rear hatch opening.

The hatch doors at "A" and "B" are first constructed. Collars are screwed to the two bolts protruding at the pivot. The axle is passed through the collars, and three washers placed on the outside of the collars.

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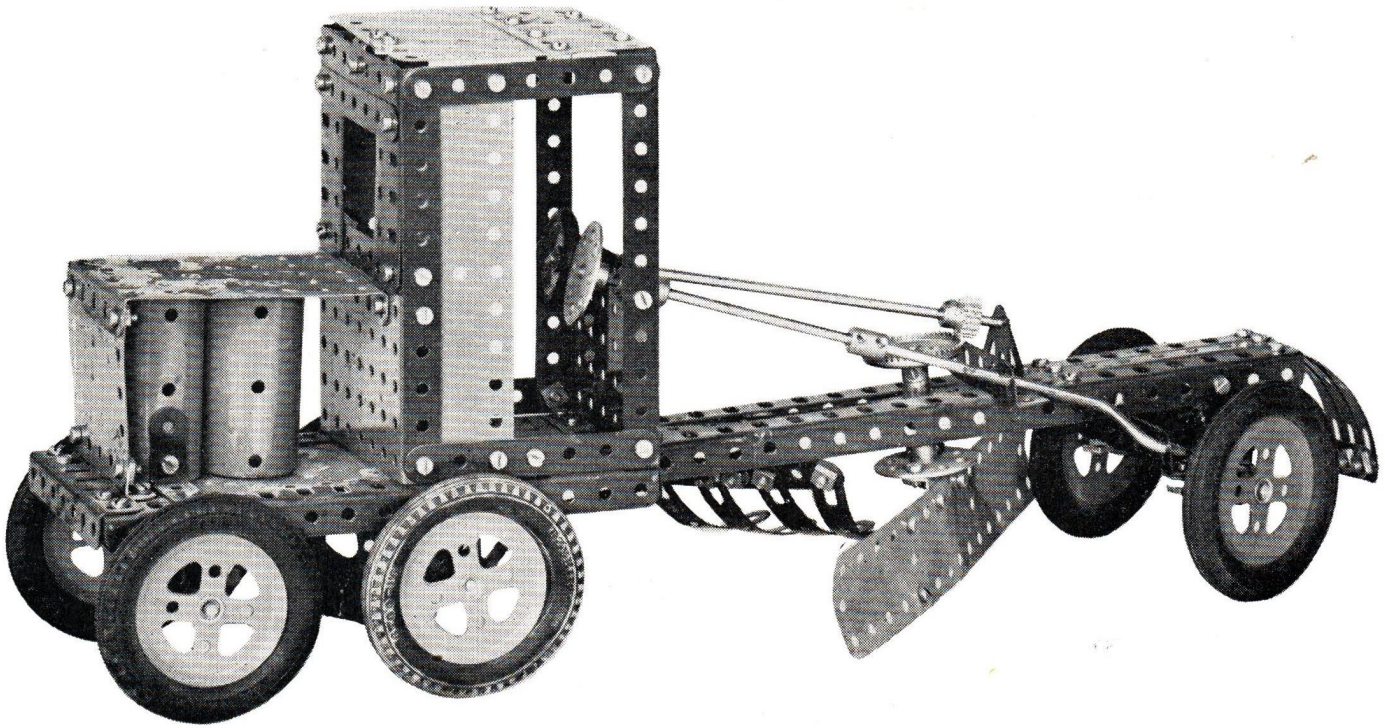

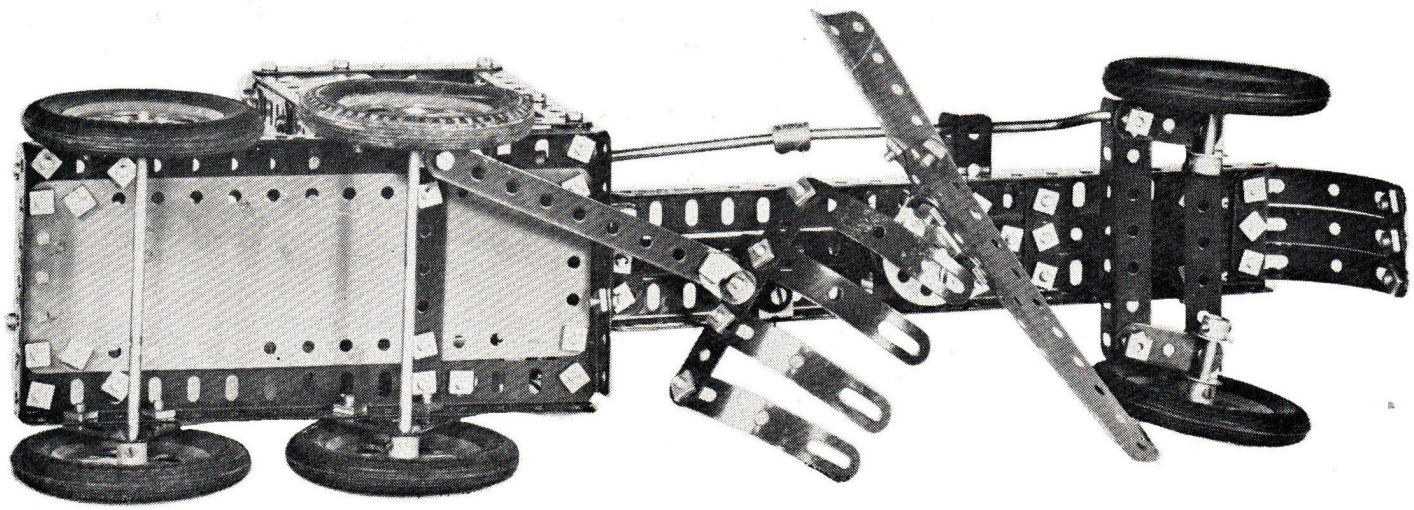

PATROL GRADER AND ROAD PLOUGH, 9-6

The two-section chassis is built from 7½" x 9½" angle girders, with angle brackets joining the front section to the driving cabin end of the rear section. Steering is effected by extending a 5½" crank handle with a coupling and a 5" axle, and the grader blade is rotated by a shaft turning a pinion engaged to a contrate wheel which pivots the axle bush wheel on which the blade is mounted.

PARTS REQUIRED

PATROL GRADER

4	of	No.	1
5	„	„	5
4	„	„	7
1	„	„	9
2	„	„	17
2	„	„	28
1	„	„	30
4	„	„	32
2	„	„	35
2	„	„	36
1	„	„	41
2	„	„	43
7	„	„	53
1	„	„	55
4	„	„	56
6	„	„	59
2	„	„	60
2	„	„	62
1	„	„	65
2	„	„	70
3	„	„	75
3	„	„	76
2	„	„	77
1	„	„	79
2	„	„	87
1	„	„	91
6	„	„	92
1	„	„	95
6	„	„	96
2	„	„	100
1	„	„	101
3	„	„	104
1	„	„	106
1	„	„	110
2	„	„	113
1	„	„	115
1	„	„	117
6	„	„	120
1	„	„	121

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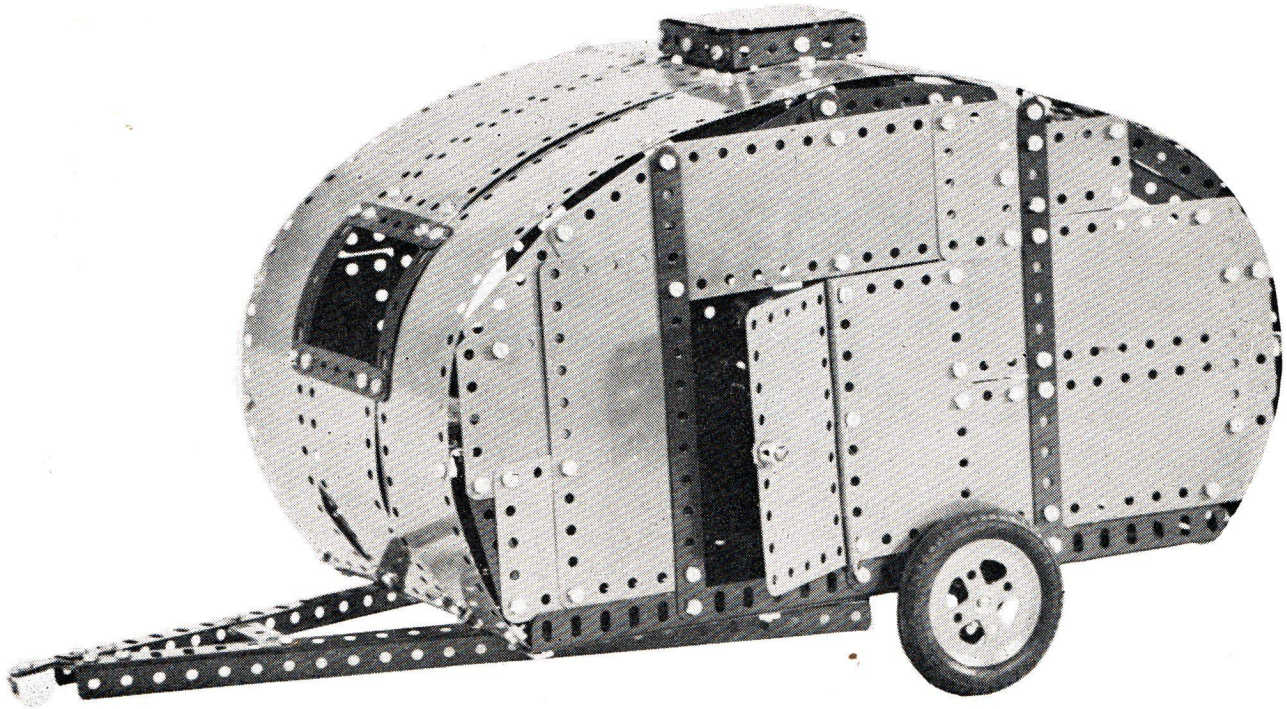
CARAVAN, 9-7

Chassis is a No. 37 joined by 7½" perforated strips at the ends with three No. 81 plates for the floor. Towbar No. 37 girders with No. 2 strip on the front end. The girders are bolted 6" from the front of the chassis.

The shell is constructed flat by four No. 81 plates and two No. 78 overlapped 2½", and finally formed over the sides and fixed with ½" x ½" bracket. The centre strip is No. 78 each end, with 2" opening for the windows and two No. 79 strips to the skylight.

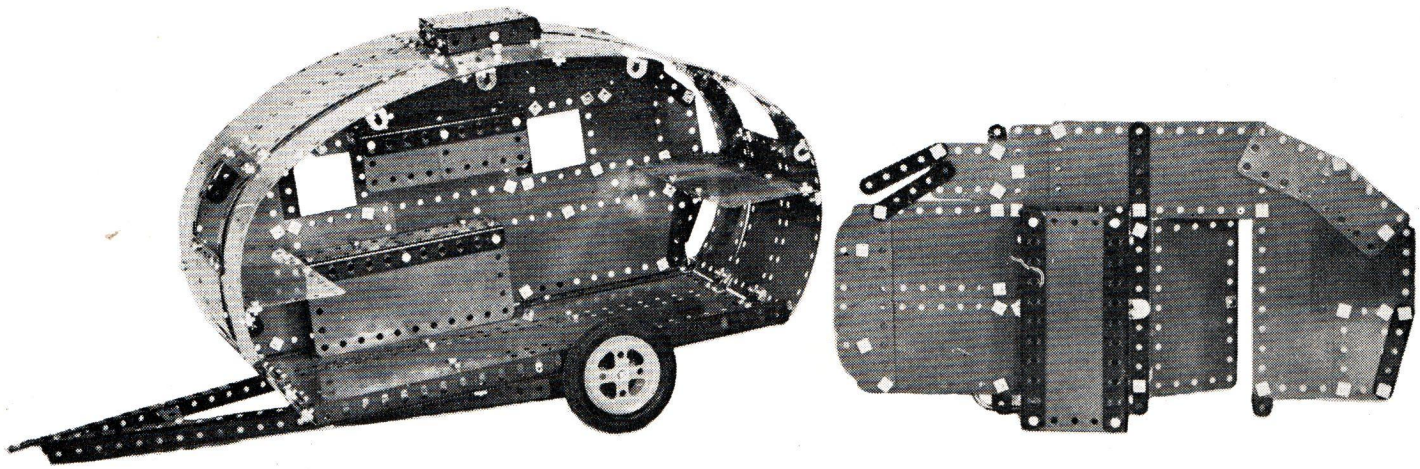
The top cupboard is No. 33 girder, with No. 75 plates for top and front. Bottom cupboard is No. 34 girder with No. 75 plates for top, and No. 79 plates for front. Wardrobe is No. 34 girders for corners with No. 79 plate for the front, and No. 76 plates for the sides.



PARTS REQUIRED

CARAVAN

4	of	No.	1
2	„	„	2
16	„	„	3
6	„	„	5
6	„	„	8
1	„	„	33
3	„	„	34
4	„	„	37
2	„	„	42
4	„	„	53
2	„	„	55
16	„	„	59
1	„	„	60
8	„	„	65
10	„	„	75
6	„	„	76
9	„	„	77
3	„	„	78
10	„	„	79
6	„	„	81
1	„	„	85
2	„	„	86
2	„	„	92
2	„	„	96
1	„	„	103
1	„	„	104
1	„	„	121



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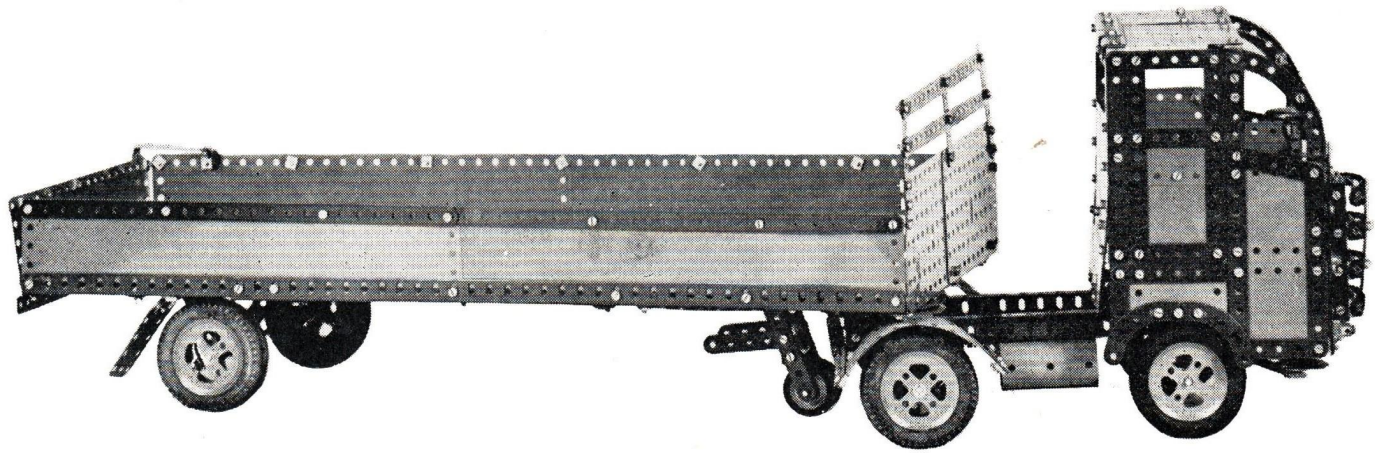


SEMI-TRAILER, 9-8

Chassis is formed by bolting two 12½" angle girders to form a channel, and joined at each end by 3½" x ½" double-angle strips. The steering is the same as in model 1. except the drive is taken to a bush wheel by a 5½" perforated strip.

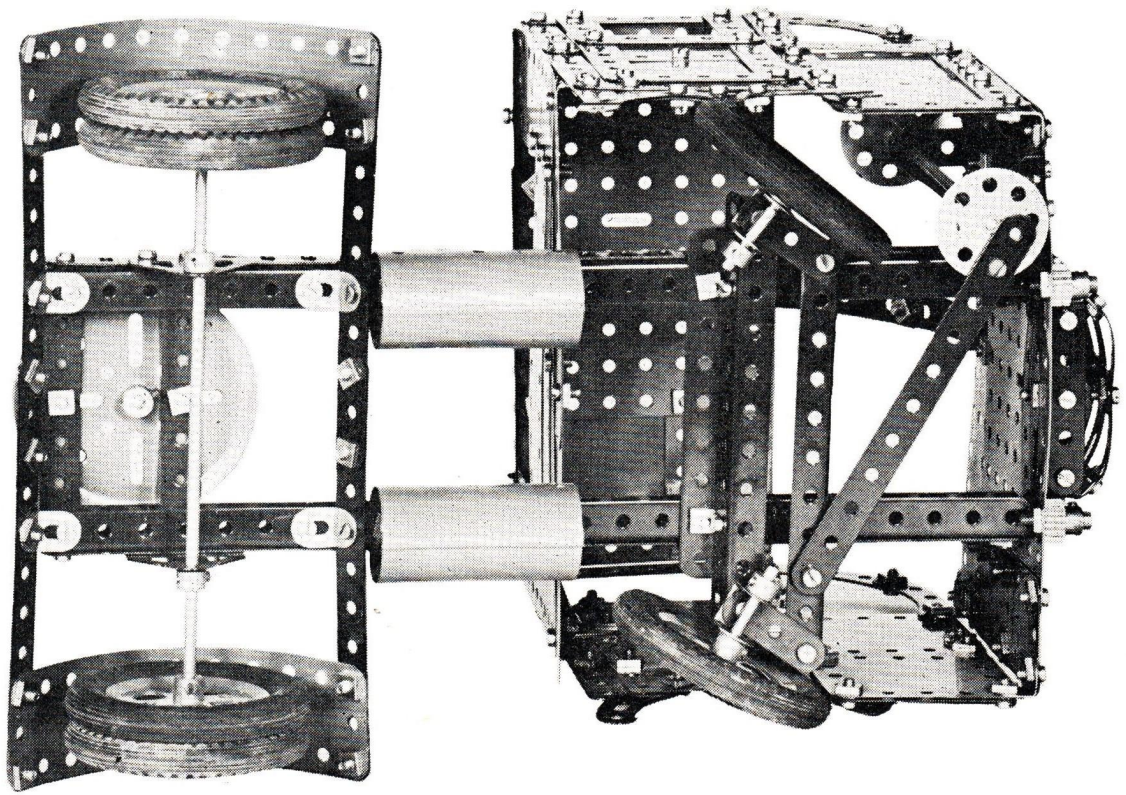
The sides of the cabin are constructed by joining 5½" and 3" perforated strip with 1" overlap. Top and bottom are joined by 3½" perforated strips, and 2½" x 2½" flexible plates form doors and panelling.

Front is 5½" x 3½" flexible plate with 2½" x 1½" flexible plates at sides and 5½" x 1½" and 2½" x 1½" flexible plates at the top overlapped one hole.

Grille has 3½" x ½" double angle strips for sides, and 2½" x ½" perforated strips for top and bottom. Formed slotted strips are joined to the side of the grille by obtuse angle brackets.

Trailer. Sides two 12½" x 2½" flexible plates overlapped 1 hole with 12½" angle girders at the bottom. The angle girders are joined by 9½" angle girders.

The tail board has angle bracket bolted 2½" from each end, with a flat bracket to the angle bracket to form the pivot holes. Two collars are bolted to the angle girder, with two washers between the girder and collar. 6½" axle is used as the pin.



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PARTS REQUIRED

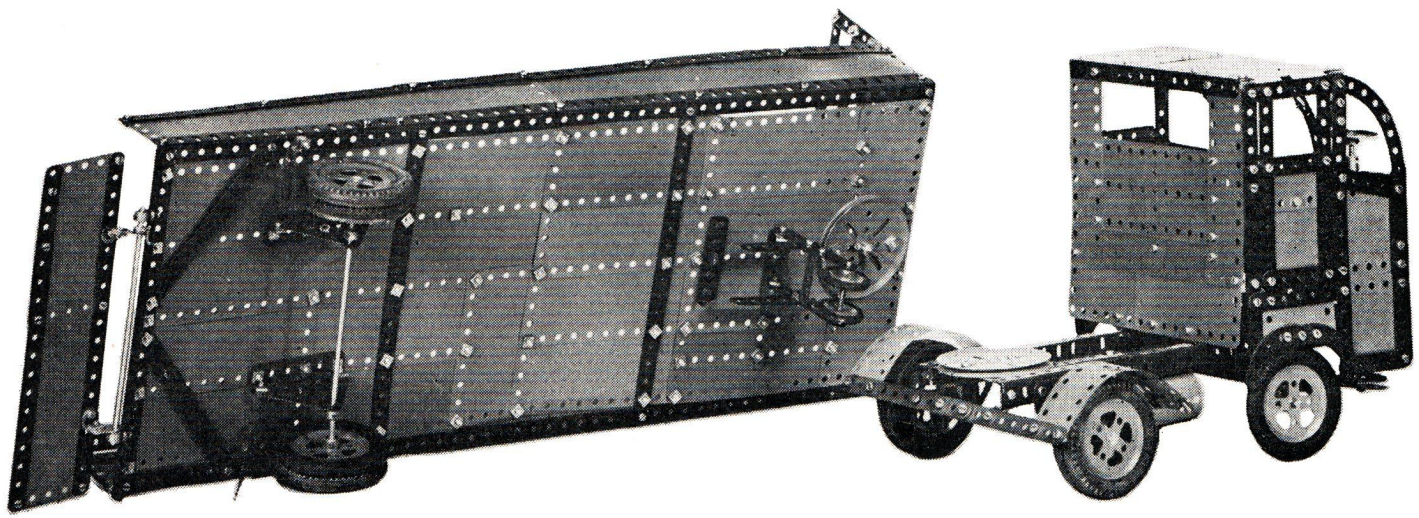
SEMI-TRAILER

4	of Part No.	1
16	„ „ „	3
6	„ „ „	4
6	„ „ „	5
16	„ „ „	7
4	„ „ „	8
2	„ „ „	9
4	„ „ „	10
2	„ „ „	28
1	„ „ „	30
1	„ „ „	31
1	„ „ „	33
4	„ „ „	34
2	„ „ „	35
2	„ „ „	36
4	„ „ „	37
2	„ „ „	38
1	„ „ „	41
1	„ „ „	42
4	„ „ „	43
4	„ „ „	51
6	„ „ „	53
2	„ „ „	55
2	„ „ „	56

PARTS REQUIRED

SEMI-TRAILER

10	of Part No.	59
2	„ „ „	58
2	„ „ „	60
6	„ „ „	65
4	„ „ „	71
8	„ „ „	75
10	„ „ „	76
7	„ „ „	77
6	„ „ „	78
12	„ „ „	79
6	„ „ „	81
2	„ „ „	87
2	„ „ „	88
2	„ „ „	91
6	„ „ „	92
2	„ „ „	93
2	„ „ „	95
6	„ „ „	96
1	„ „ „	99
2	„ „ „	100
1	„ „ „	106
1	„ „ „	113
7	„ „ „	120
11	„ „ „	140



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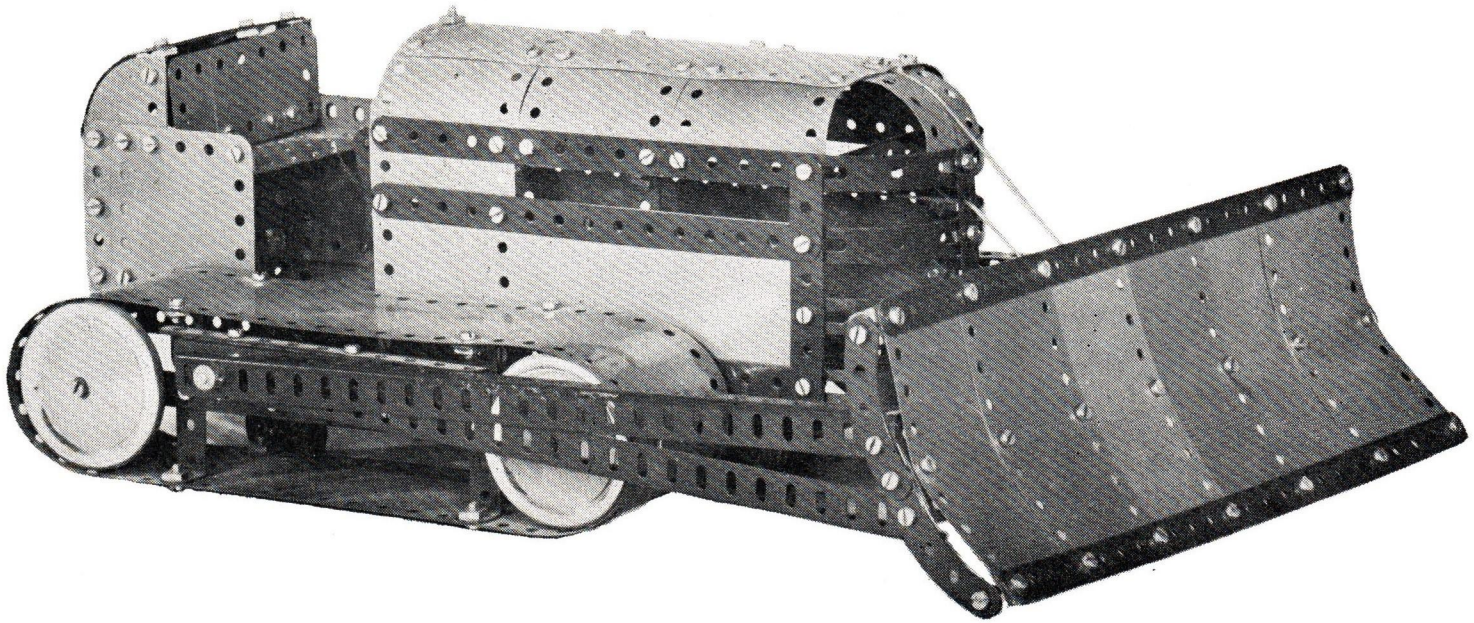

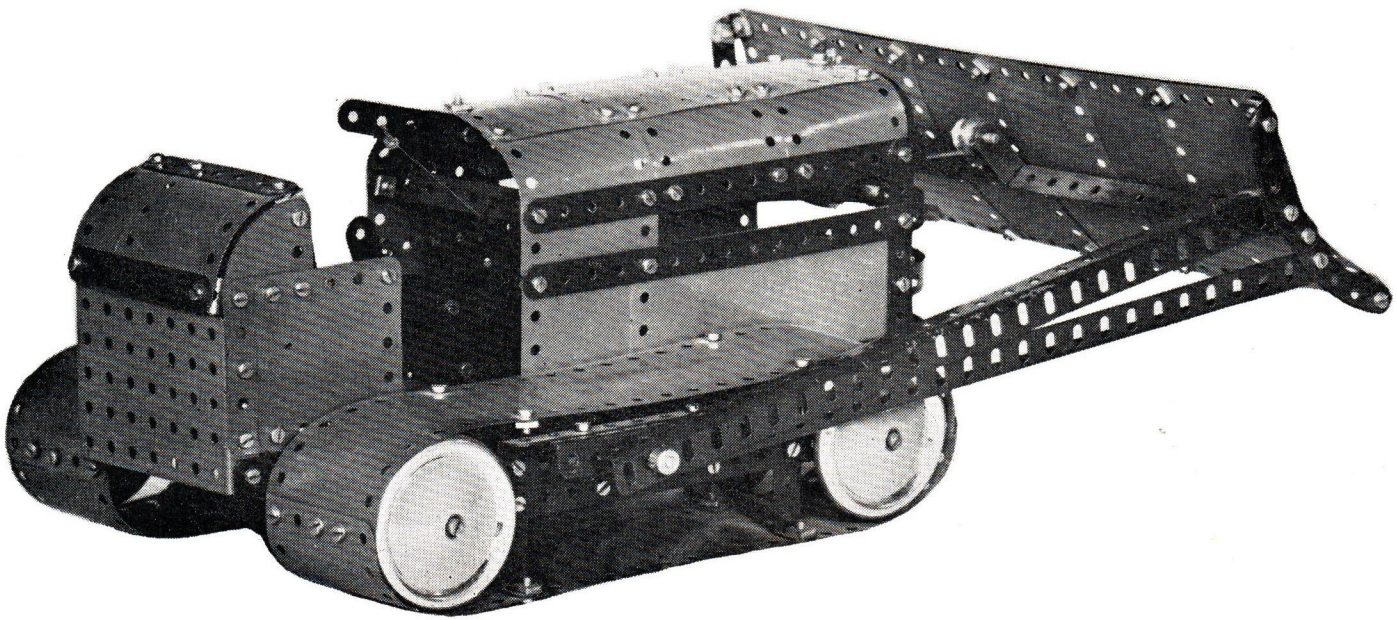

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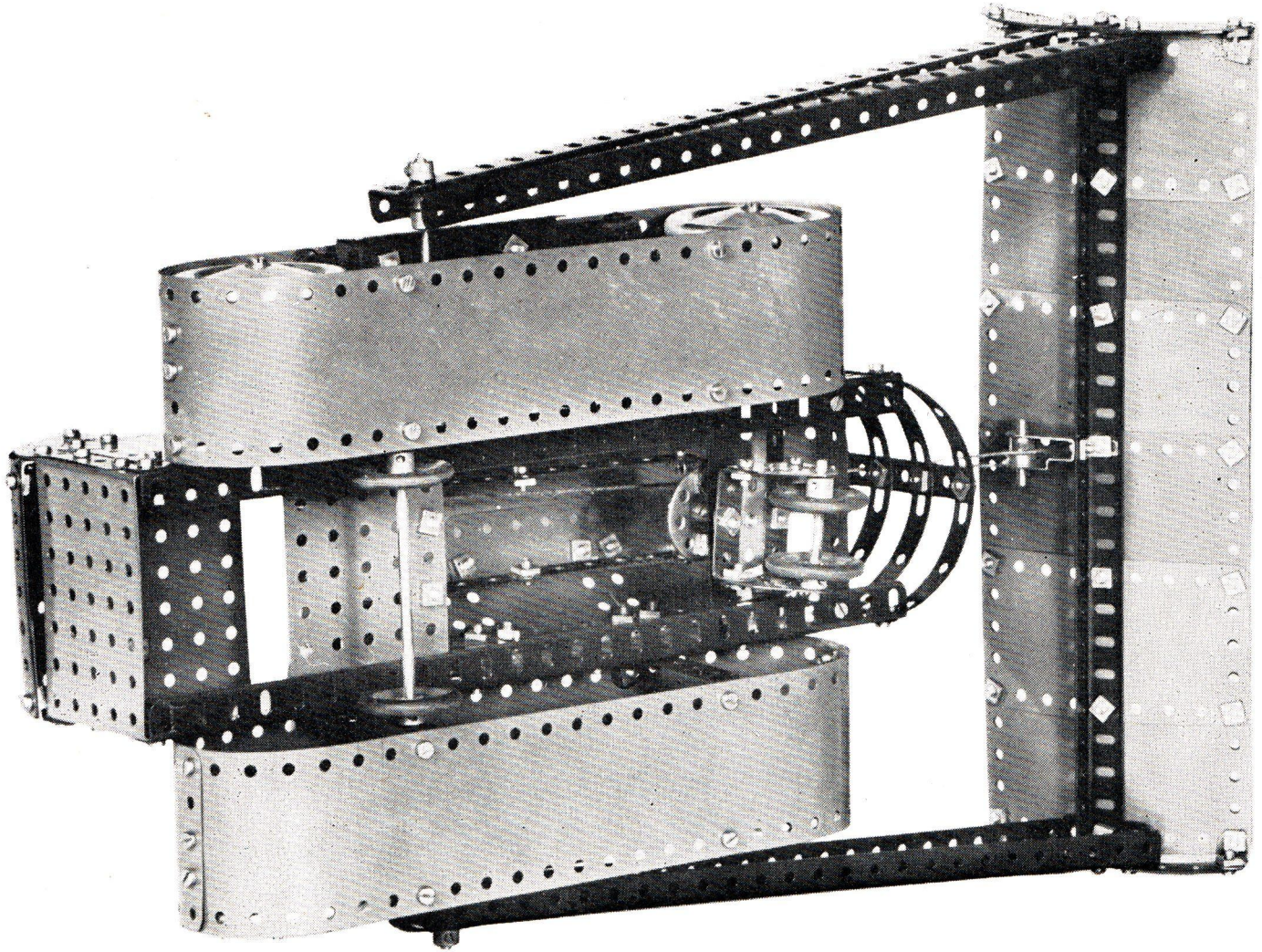
PARTS REQUIRED

BULLDOZER

3	of	Part	No.	3
5	„	„	„	5
4	„	„	„	7
4	„	„	„	8
2	„	„	„	10
2	„	„	„	32
2	„	„	„	34
7	„	„	„	37
2	„	„	„	28
2	„	„	„	41
8	„	„	„	42
3	„	„	„	43
4	„	„	„	51
8	„	„	„	53
13	„	„	„	59
3	„	„	„	70
6	„	„	„	75
6	„	„	„	77
6	„	„	„	78
3	„	„	„	79
4	„	„	„	81
6	„	„	„	84
2	„	„	„	86
1	„	„	„	89
4	„	„	„	91
4	„	„	„	94
4	„	„	„	95
3	„	„	„	101
1	„	„	„	103
2	„	„	„	113
5	„	„	„	120
1	„	„	„	125
6	„	„	„	140
4	„	„	„	146
1	„	„	„	64
2	„	„	„	56
2	„	„	„	121



BULLDOZER, 9-10

Cabin and engine mounted on No. 37 strips. Cabin No. 70 plate for back with No. 77 plates curved to the top, sides No. 75 plate, and No. 77 plate overlapped 1" with No. 70 plate for the seat.

Steering. Two No. 41 strips fixed to bush wheel as in "A," at the end of the strips fix No. 56 to take the wheels. A collar is used as a spacer and then a bush wheel. Two angle brackets are lock-nutted loose on the bush wheel, from these No. 7 strips go to the controls in the cabin.

The blade is No. 78 strips fixed at top and bottom by No. 10 strips. No. 51 strips form the sides of the blade No. 28 girder at the centre to take the arms.

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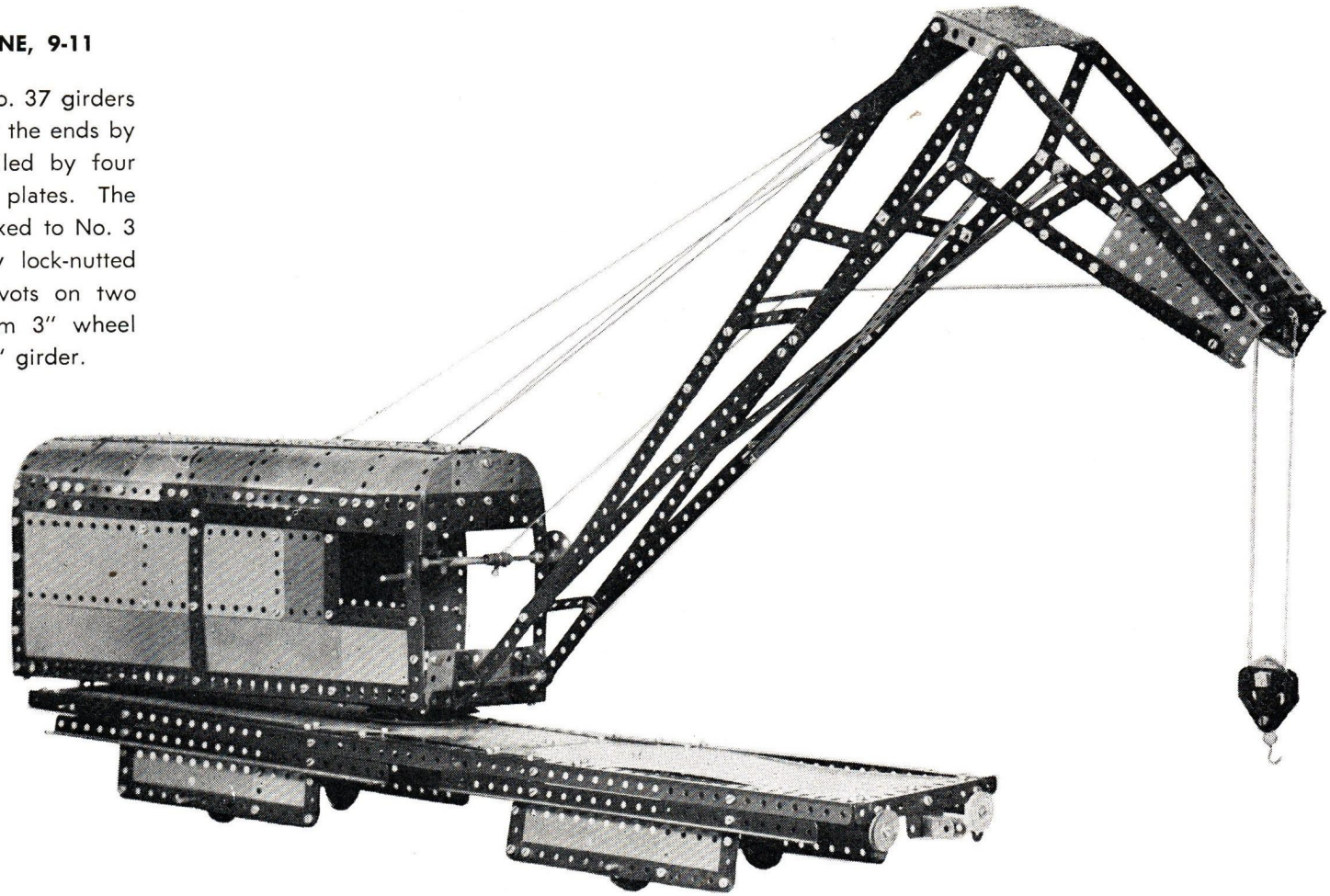
RAILWAY WRECK CRANE, 9-11

Carriage top No. 38 and No. 37 girders overlapped 2", and fixed at the ends by No. 34 girders. Top is filled by four No. 81 and two No. 78 plates. The sides are No. 37 girders fixed to No. 3 strips. Pulley block pulley lock-nutted in two trunions. Crane pivots on two opposed 3" wheels, bottom 3" wheel supported in chassis by 5½" girder.



PARTS REQUIRED

RAILWAY CRANE

2	of	Part No.	1
10	„	„ „	3
5	„	„ „	5
17	„	„ „	7
6	„	„ „	8
12	„	„ „	10
1	„	„ „	14
1	„	„ „	16
2	„	„ „	18
2	„	„ „	19
2	„	„ „	21
2	„	„ „	28
1	„	„ „	29
2	„	„ „	33
3	„	„ „	34
2	„	„ „	35
6	„	„ „	37
2	„	„ „	36
2	„	„ „	38
1	„	„ „	42
2	„	„ „	56
14	„	„ „	59
2	„	„ „	60
1	„	„ „	61
2	„	„ „	68
2	„	„ „	70
4	„	„ „	75
5	„	„ „	76
10	„	„ „	77
16	„	„ „	79
1	„	„ „	78
6	„	„ „	81
6	„	„ „	84
2	„	„ „	86
1	„	„ „	88
1	„	„ „	89
2	„	„ „	90
5	„	„ „	91
2	„	„ „	93
4	„	„ „	95
2	„	„ „	102
1	„	„ „	105
2	„	„ „	111
2	„	„ „	113
5	„	„ „	120
1	„	„ „	121
1	„	„ „	124
1	„	„ „	125
1	„	„ „	128
1	„	„ „	132
1	„	„ „	133
2	„	„ „	134

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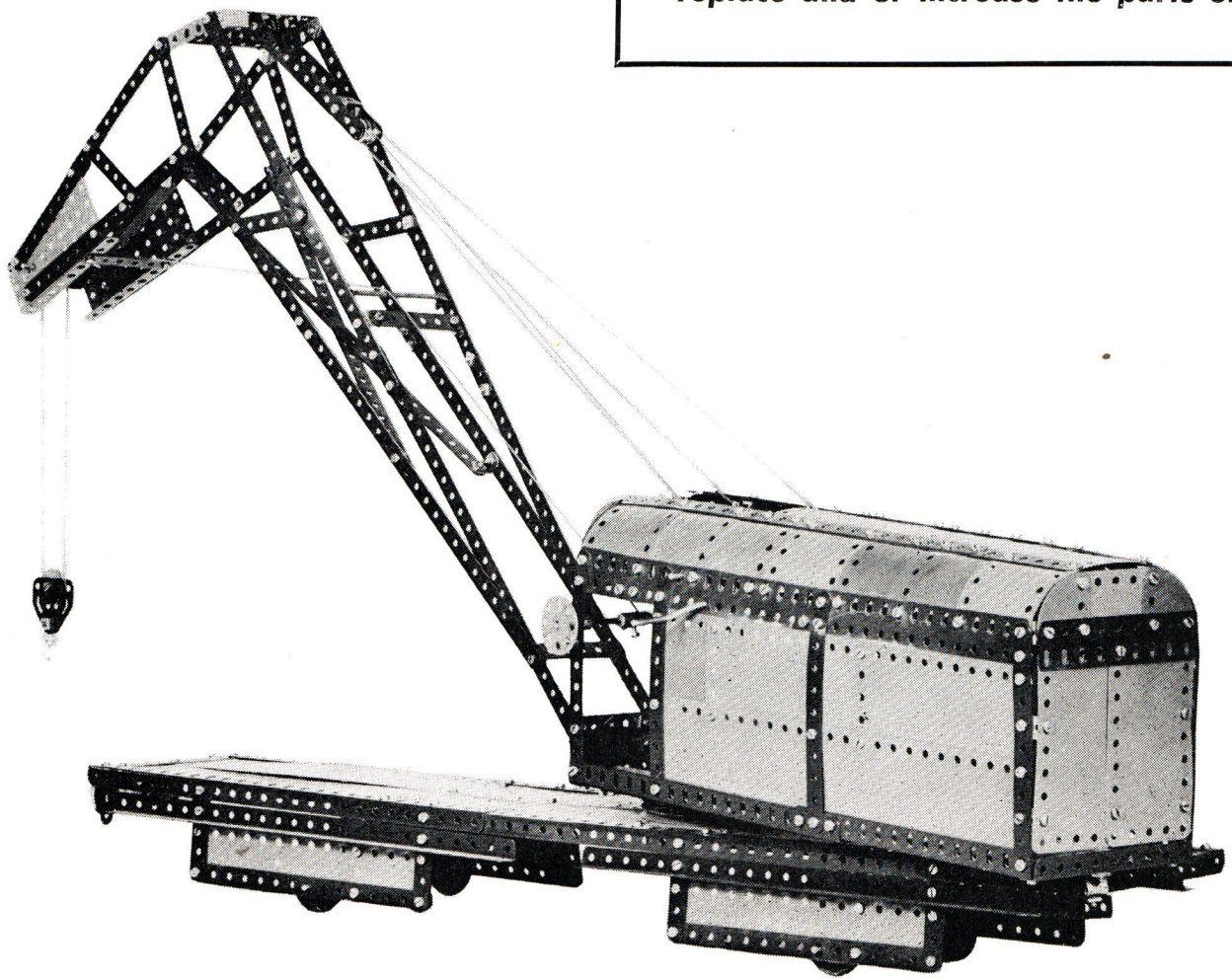
There are many more parts available in the EZY-BILT range: with these you can design and build your own models. Keep in touch with your EZY-BILT spare parts stockists and you will always be able to replace and or increase the parts of your set.



EZY-BILT — THE MASTER TOY

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9-12 DRAGLINE

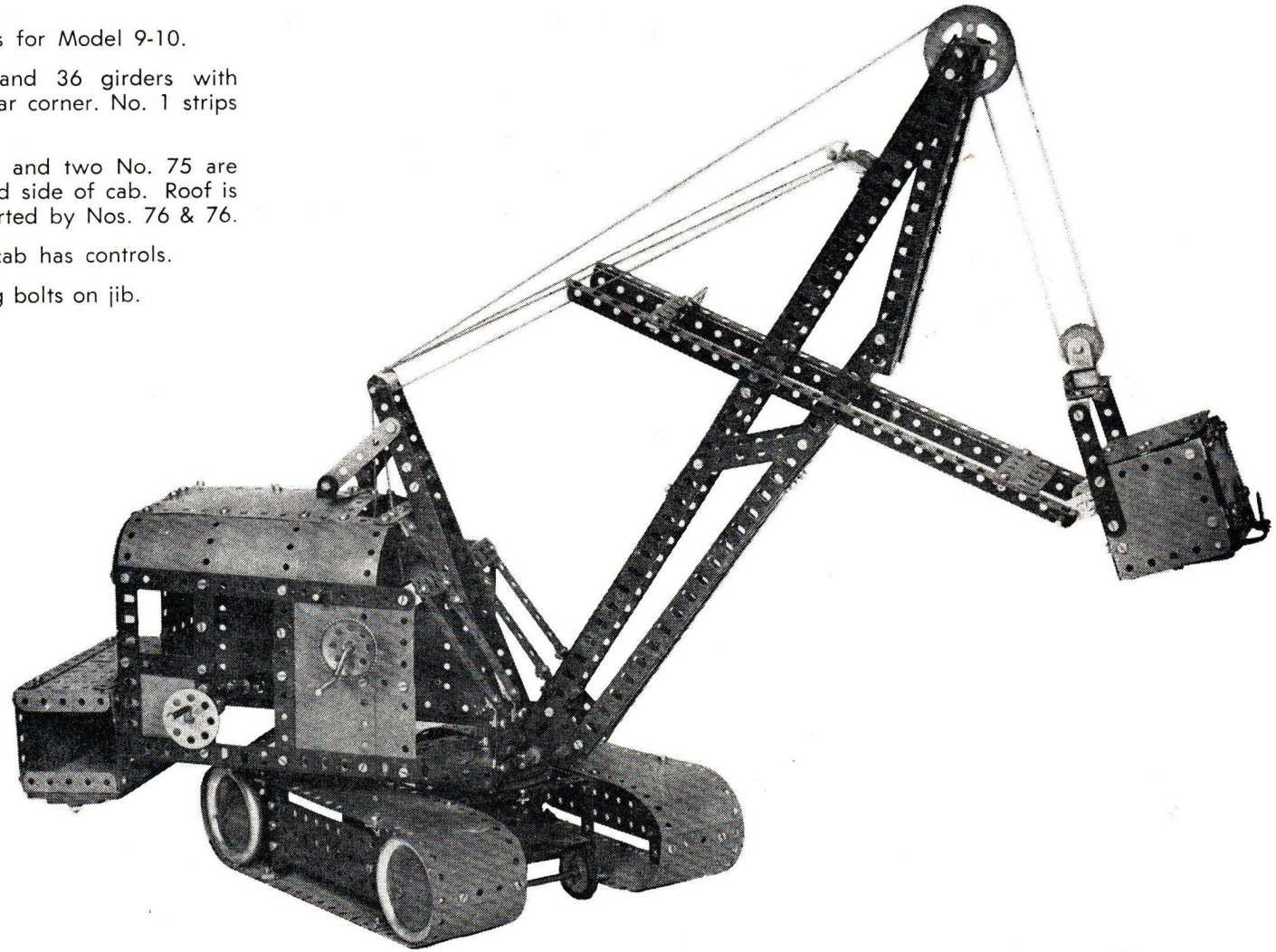
Caterpillar wheels as for Model 9-10.

Cab uses No. 34 and 36 girders with No. 33 girders in rear corner. No. 1 strips in the front.

Three No. 78 plates and two No. 75 are fixed to the left hand side of cab. Roof is No. 84 plates supported by Nos. 76 & 76.

Right hand side of cab has controls.

Lock nut all pivotting bolts on jib.



PARTS REQUIRED

DRAG LINE

4	of Part No.		1
15	"	"	3
4	"	"	4
4	"	"	5
10	"	"	7
4	"	"	8
1	"	"	17
1	"	"	28
2	"	"	29
2	"	"	31
2	"	"	33
2	"	"	34
2	"	"	35
2	"	"	36
2	"	"	37
2	"	"	38
2	"	"	41
9	"	"	42
4	"	"	43
2	"	"	49
4	"	"	56
12	"	"	58
16	"	"	59
1	"	"	60
1	"	"	64
2	"	"	67
6	"	"	75
10	"	"	76
9	"	"	77
4	"	"	78
12	"	"	79
4	"	"	81
6	"	"	84
2	"	"	86
1	"	"	88
3	"	"	89
6	"	"	91
1	"	"	92
4	"	"	101
4	"	"	102
1	"	"	106
1	"	"	111
2	"	"	113
8	"	"	120
2	"	"	121
2	"	"	125
2	"	"	126
24	"	"	134
16	"	"	140
6	"	"	141
5	"	"	144
2	"	"	146

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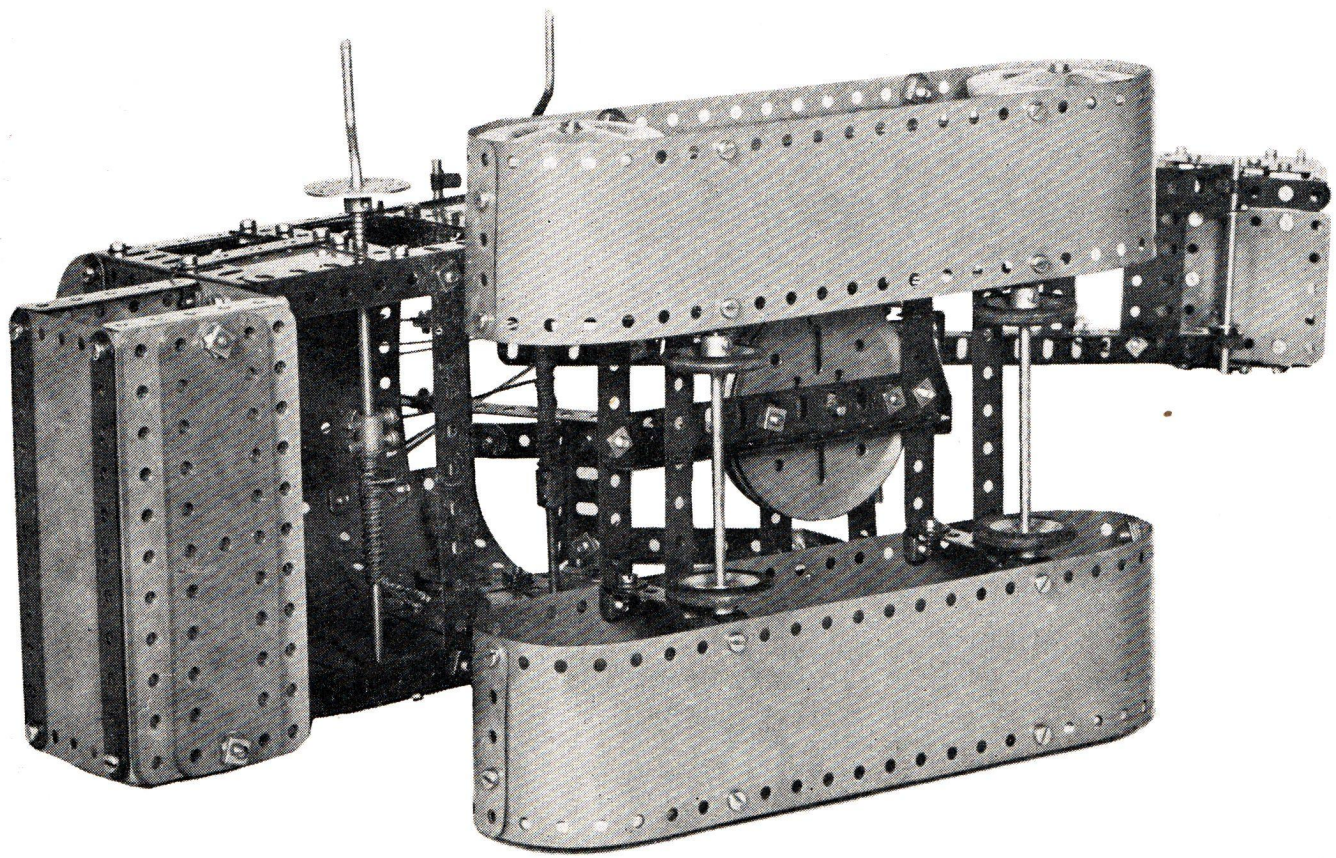
EZY - BILT SUPER 9



EZY - BILT SUPER 9

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PARTS FOR A No. 9 SET

PART No.	NAME		QUANTITY
1.	Perforated Strip	1½"	4 only
2.	,,	2"	2
3.	,,	2½"	16
4.	,,	3"	6
5.	,,	3½"	6
6.	,,	4½"	2
7.	,,	5½"	18
8.	,,	7½"	6
9.	,,	9½"	2
10.	,,	12"	14
14.	Flat Girders	1½"	2
15.	,,	2"	2
16.	,,	2½"	2
17.	,,	3"	2
18.	,,	3½"	2
19.	,,	4½"	2
20.	,,	5½"	2
21.	,,	7½"	2
22.	,,	9½"	2
28.	Angle Girders	1½"	2
30.	,,	2½"	2
32.	,,	3½"	2
33.	,,	4½"	4
34.	,,	5½"	4
35.	,,	7½"	2
36.	,,	9½"	2
37.	,,	12½"	8
38.	,,	18½"	2
41.	Double Angle Strips	1½" x ½"	2
42.	,,	2½" x ½"	10
43.	,,	3½" x ½"	6
49.	Clutch Spring		2
50.	Curved Crank	2½" x 1⅜"	8
51.	Curved Strip	2½" x 2⅜"	4
53.	Formed Slotted Strip	3"	8
55.	Angle Trunnion		4
56.	Flat Trunnion		6
58.	Flat Bracket		24
59.	Angle Bracket	½" x ½"	30
60.	Double Bracket		8
61.	Reversed Angle Bracket	½"	4

PART No.	NAME		QUANTITY
62.	Angle Bracket	1" x 1"	4
63.	Double Bent Strip		3
64.	Crank Bent Strip		1
65.	Obtuse Angle Bracket	½" x ½"	8
67.	Base Plate		2 only
68.	Sector Plate		2
70.	Flanged Plate	3½" x 2½"	3
69.	,,	2½" x 1½"	2
71.	Flat Plate	5½" x 3½"	4
75.	Flexible Plate	2½" x 1½"	10
76.	,,	5½" x 1½"	10
77.	,,	2½" x 2½"	10
78.	,,	4½" x 2½"	6
79.	,,	5½" x 2½"	12
81.	Strip Plates	12½" x 2½"	6
83.	Curved "U" Plate	9/32"	2
84.	,,	1-11/16"	6
85.	Hinged Flat Plate	4½" x 2½"	1
86.	Semi-Circular Plate	2½"	4
87.	Cylinder	2½"	2
88.	Brass Pulley without Boss	½"	3
89.	Brass Pulley with Boss	½"	1
90.	Pulley without Boss	1"	4
91.	Pulley with Boss	1"	6
92.	Pulley with Boss	2"	6
93.	Pulley with Boss	3"	2
94.	Road Wheels		4
95.	Rubber Tyres	1"	4
96.	Rubber Tyres	2"	6
99.	Axle Rod	1"	2
100.	,,	1½"	4
101.	,,	2"	6
102.	,,	3½"	6
103.	,,	4"	2
104.	,,	4½"	2
105.	,,	5"	4
106.	,,	6½"	3
108.	,,	11½"	2
110.	Crank Handles	3½"	1
111.	,,	5"	1
113.	Bush Wheel		2

PART No.	NAME		QUANTITY
114.	Wheel Disc	1¼"	2
115.	Contrate Wheel	1½"	2
116.	Worm	½"	2
117.	Brass Pinion		4
120.	Brass Collar		8
121.	Short Coupling		2
123.	Plain Hooks		1
124.	Loaded Hook		1
125.	Hank of Cord		3 only
126.	Anchor Spring for Cord		2
127.	Rod and Strip Connector		2
128.	Rod Connector		2
131.	Spring Cord		2
132.	Screw Driver		1
133.	Spanner		2
134.	Washers	⅜"	24
135.	,,	¾"	4
137.	Driving Band	3"	2
138.	,,	6"	1
139.	,,	10"	1
140.	Grub Screw		30
141.	Spring Clip		30
142.	Nuts	5/32"	300
143.	Bolts	¾"	180
144.	,,	⅜"	10
145.	,,	½"	4
146.	,,	¾"	4
147.	Threaded Pin and Nuts		1
148.	Pivot Bolts and Nuts		1
150.	Screwed Rod	1"	1
151.	,,	2"	1
152.	,,	3"	2
153.	,,	3½"	1
154.	,,	4½"	1
155.	,,	5"	1
156.	,,	6"	1
157.	,,	8"	1
158.	,,	11½"	1
160.	Instruction Book	1-5	1
161.	,,	6-8	1
162.	,,	8-9	1

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DESIGN PAGE

Utilise these Pages with Plans and Sketches to improve or alter existing Models or to design New Models.

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