

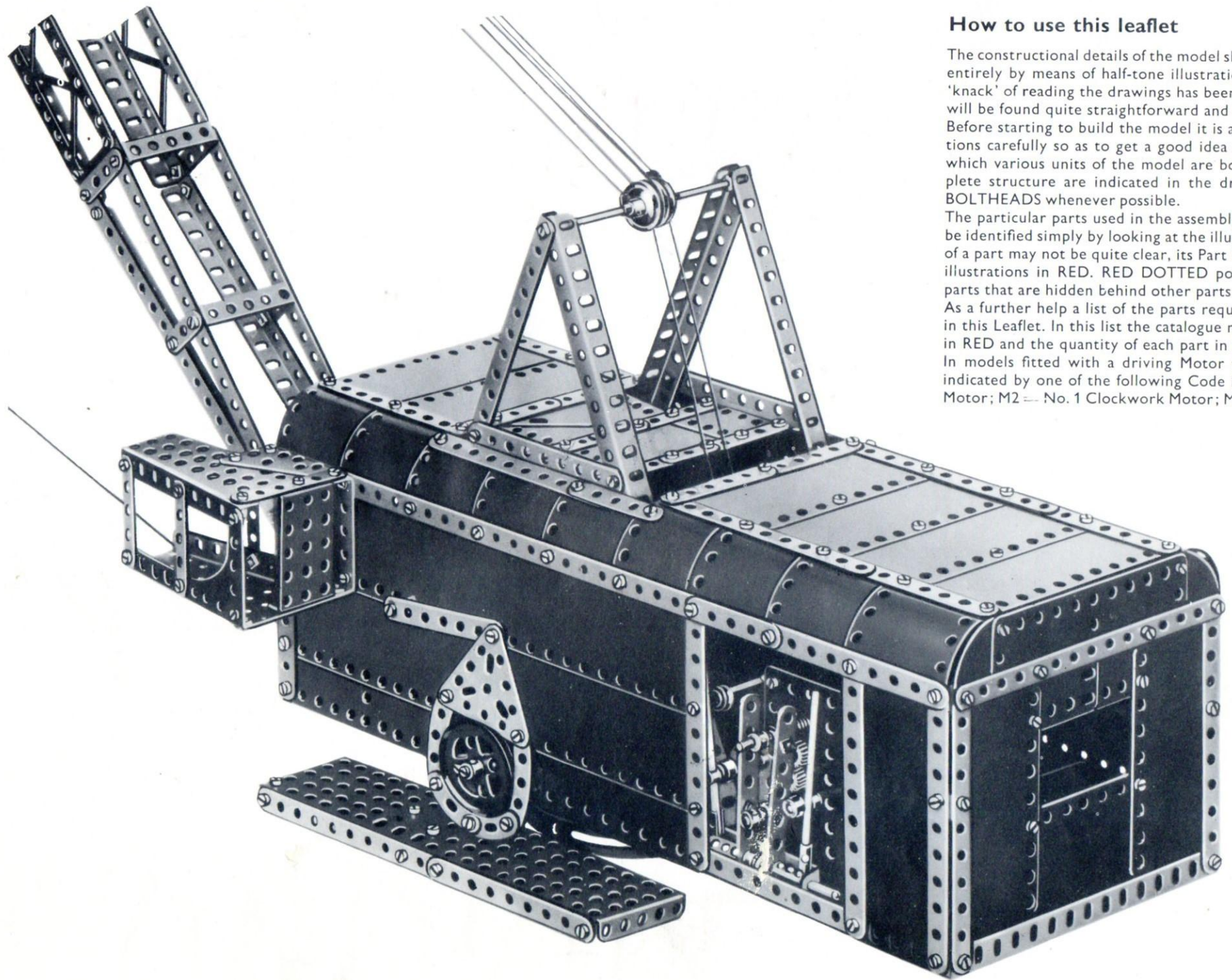
9.4 Giant Walking Dragline Excavator

The Giant Dragline Excavator illustrated with constructional plans in this Leaflet, is based on actual machines used for massive excavation operations such as are required in the making of canals and railway cuttings, and for work in clay pits and clearing overburden in open-cast mining. The name 'dragline' is derived from the fact that the digging bucket is dragged towards the machine on a flexible rope, instead of being mounted on a pivoted arm fixed to a jib as in the case of mechanical shovels. Owing to this action it is possible to place a dragline some distance away from the scene of the actual operations, and due to this feature a dragline is of exceptional value in locations where the ground is too soft to allow an ordinary mechanical shovel with short jib to stand.

Some draglines are mounted with creeper tracks while others move from place to place on giant feet that are operated by powerful machinery to give a 'walking' motion.

The model illustrated here is based on a machine of this kind and is powered by an E15R Electric Motor.





How to use this leaflet

The constructional details of the model shown in entirely by means of half-tone illustrations and 'knack' of reading the drawings has been acquired will be found quite straightforward and simple. Before starting to build the model it is advisable to study the drawings carefully so as to get a good idea of its various parts, which various units of the model are bolted to, and the complete structure are indicated in the drawings. BOLT HEADS whenever possible.

The particular parts used in the assembly of the model can be identified simply by looking at the illustration of a part may not be quite clear, its Part Number is given in RED. RED DOTTED pointer lines indicate parts that are hidden behind other parts of the model. As a further help a list of the parts required to build the model is given in this Leaflet. In this list the catalogue numbers are in RED and the quantity of each part in BLACK. In models fitted with a driving Motor the part is indicated by one of the following Code Marks: M1 = Motor; M2 = No. 1 Clockwork Motor; M3 = Meccano Motor.

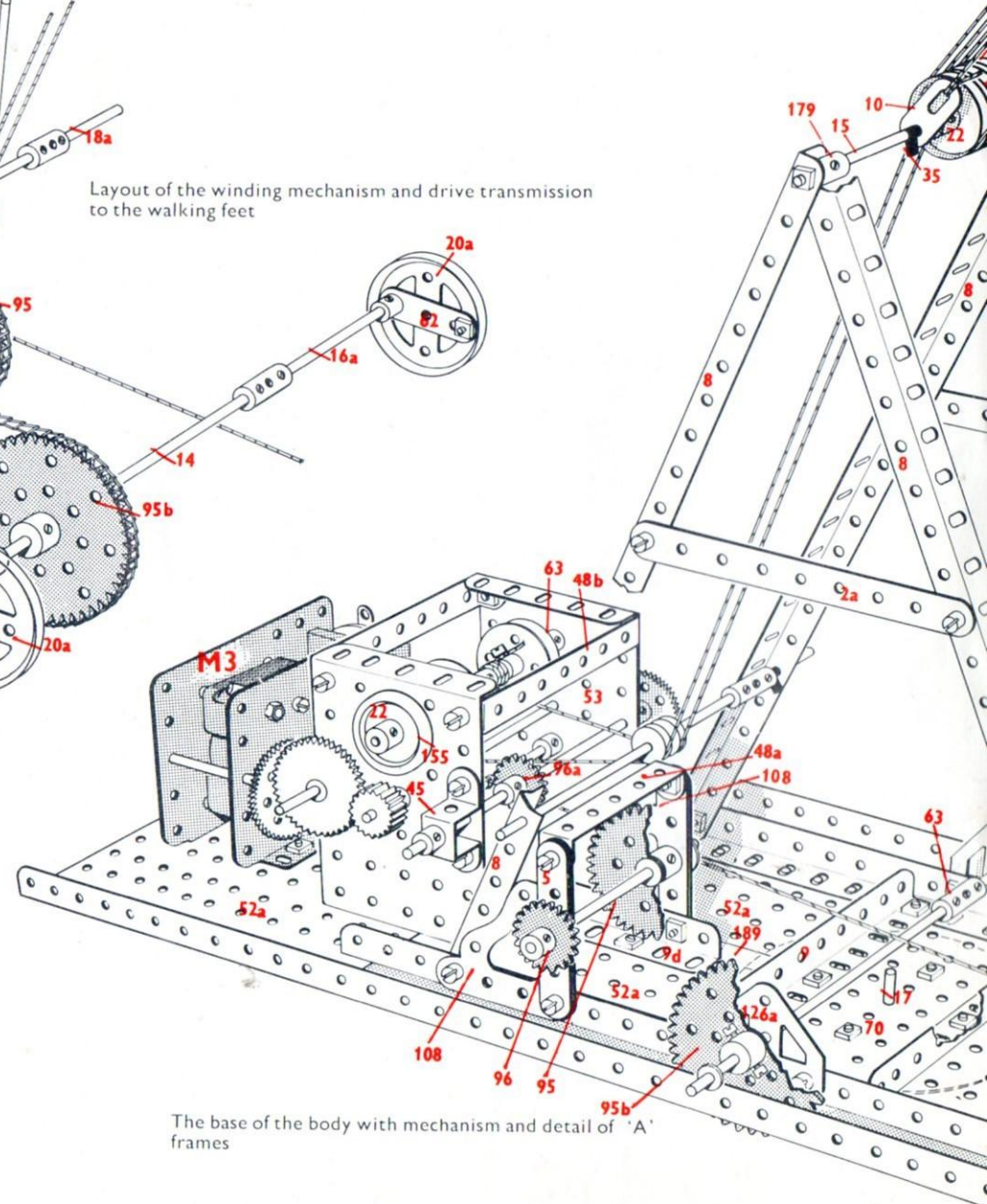
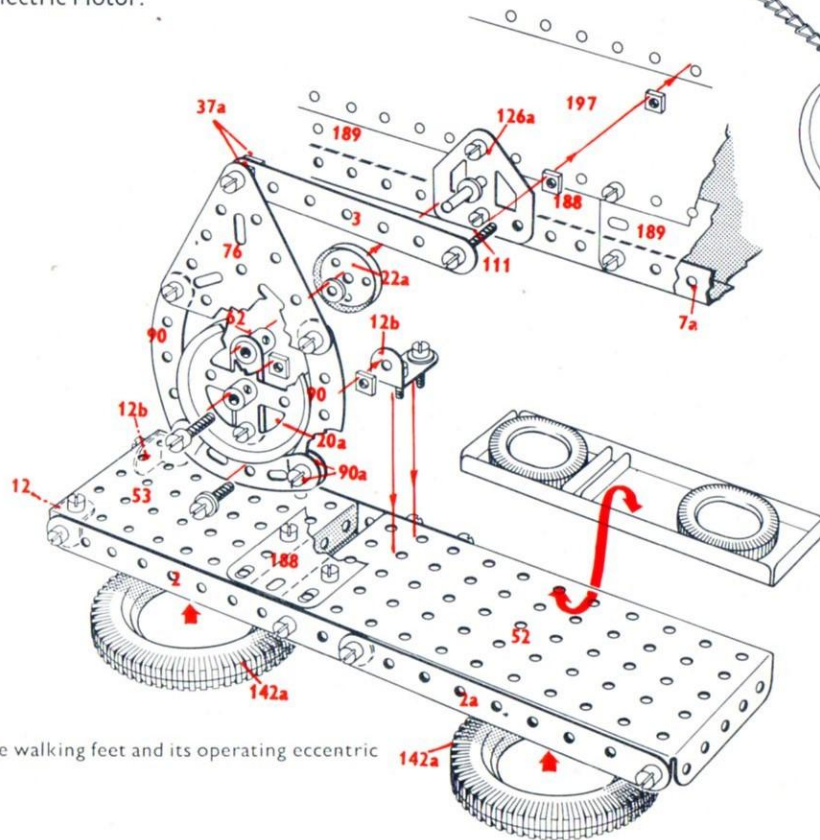
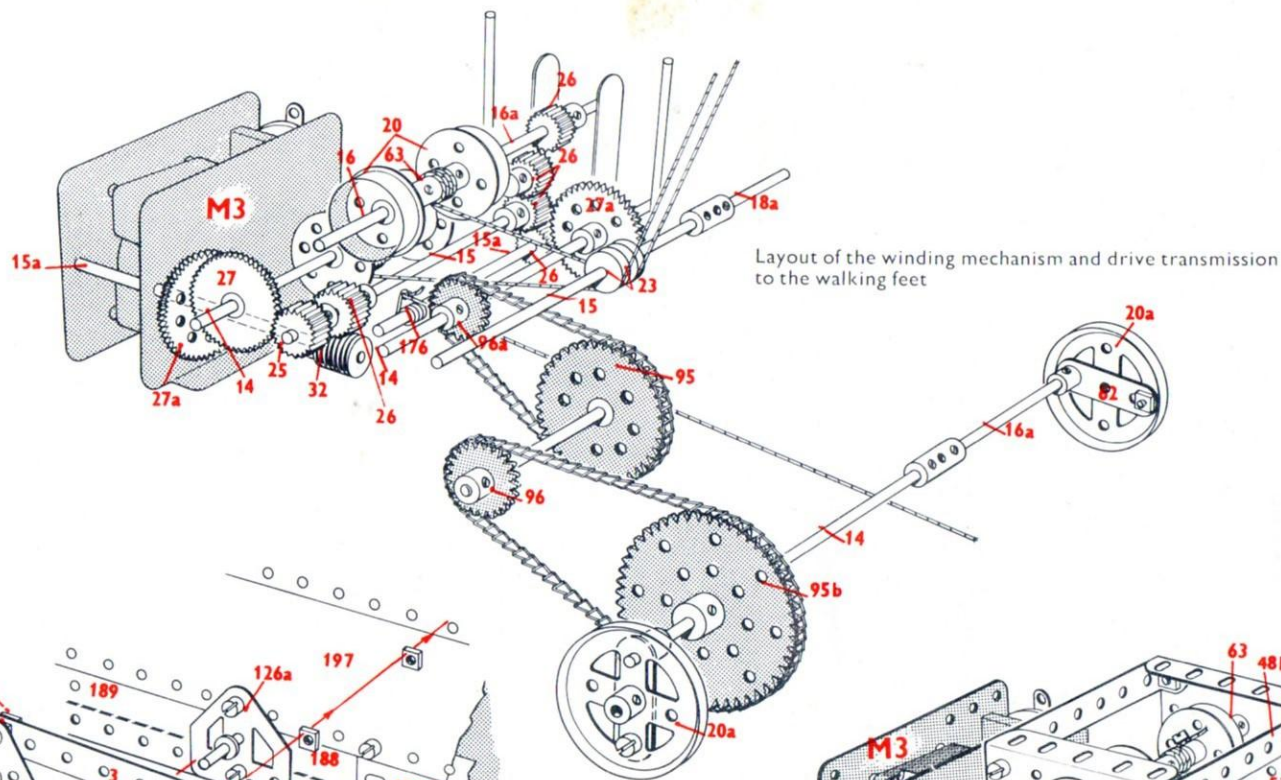
this Leaflet are explained
the drawings. Once the
assembly of the model
can carry out.

to study all the illustra-
tions in various sections. Points at
together to form the com-
plete model by RED DOTS or RED

model can in most cases
be identified, but where the identity
of a part is printed on the model
parts are used to indicate
the structure.

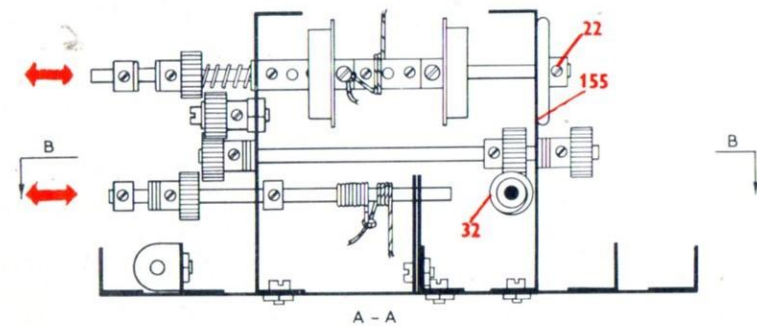
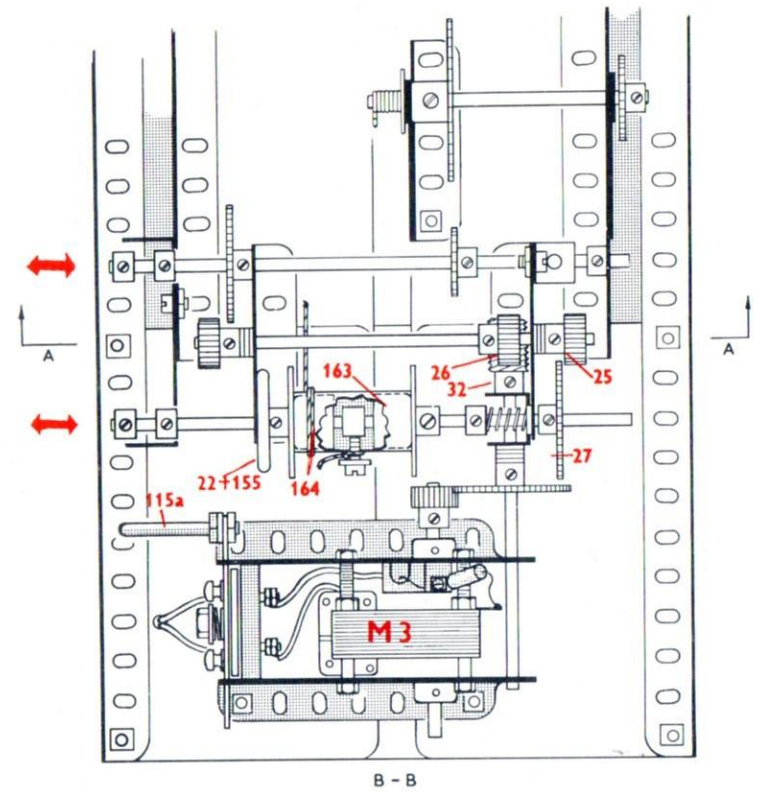
When building the model is given
the list of the parts are printed

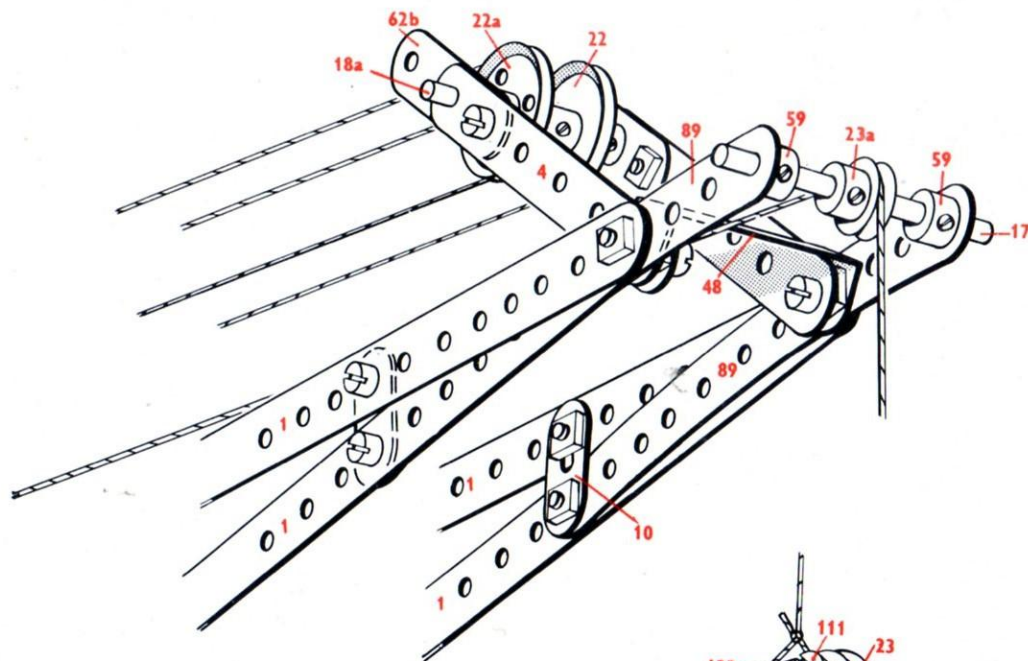
A particular type of Motor is
M1 = Magic Clockwork
Meccano Electric Motor.



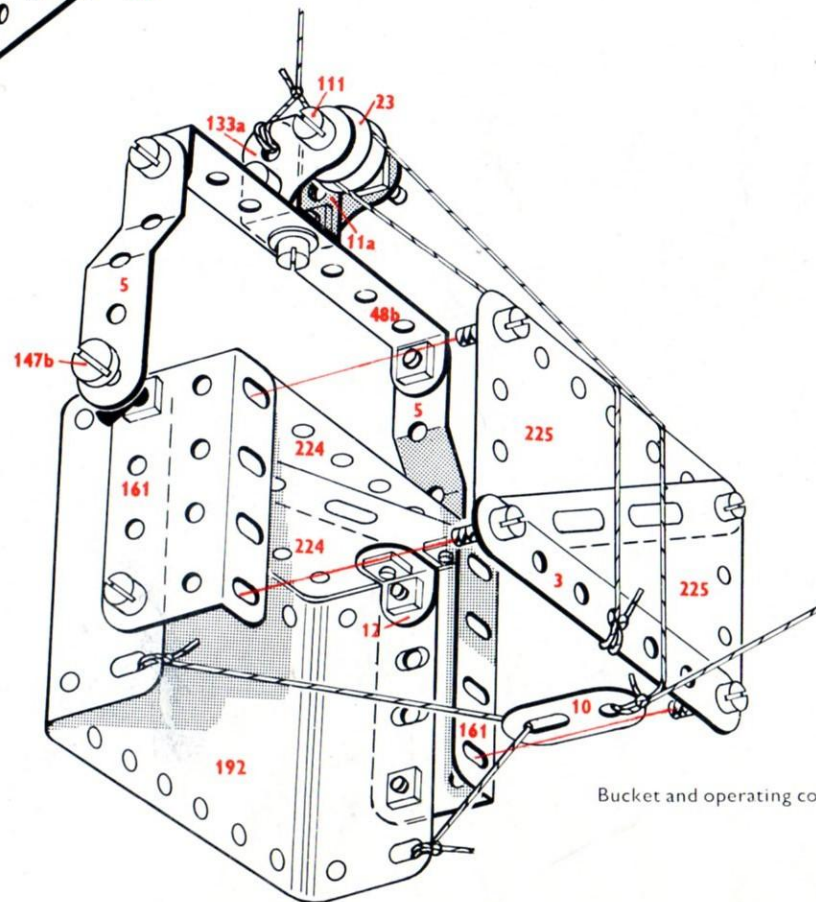
one of the walking feet and its operating eccentric

Diagrammatic layout of the winding mechanism for the boom and digging bucket





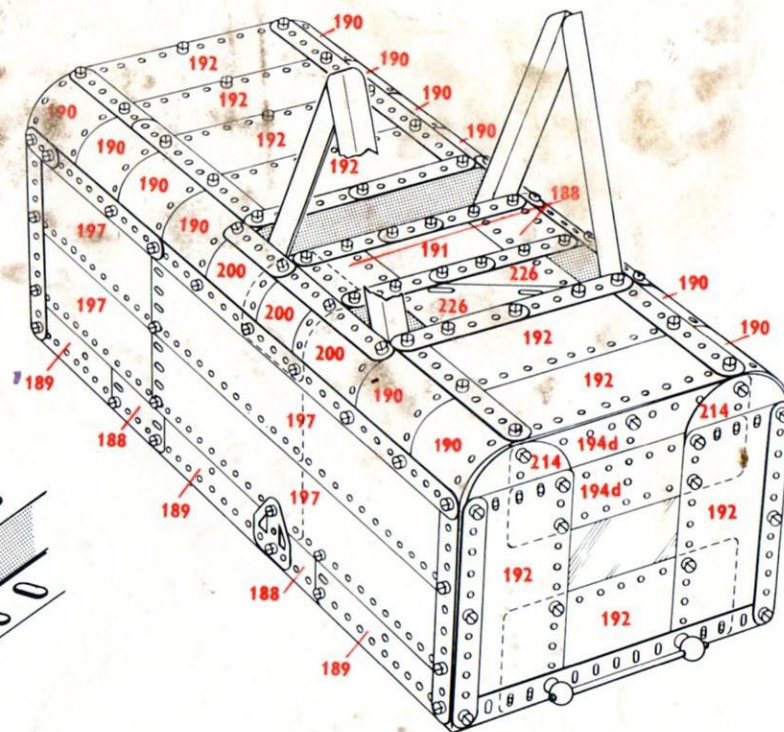
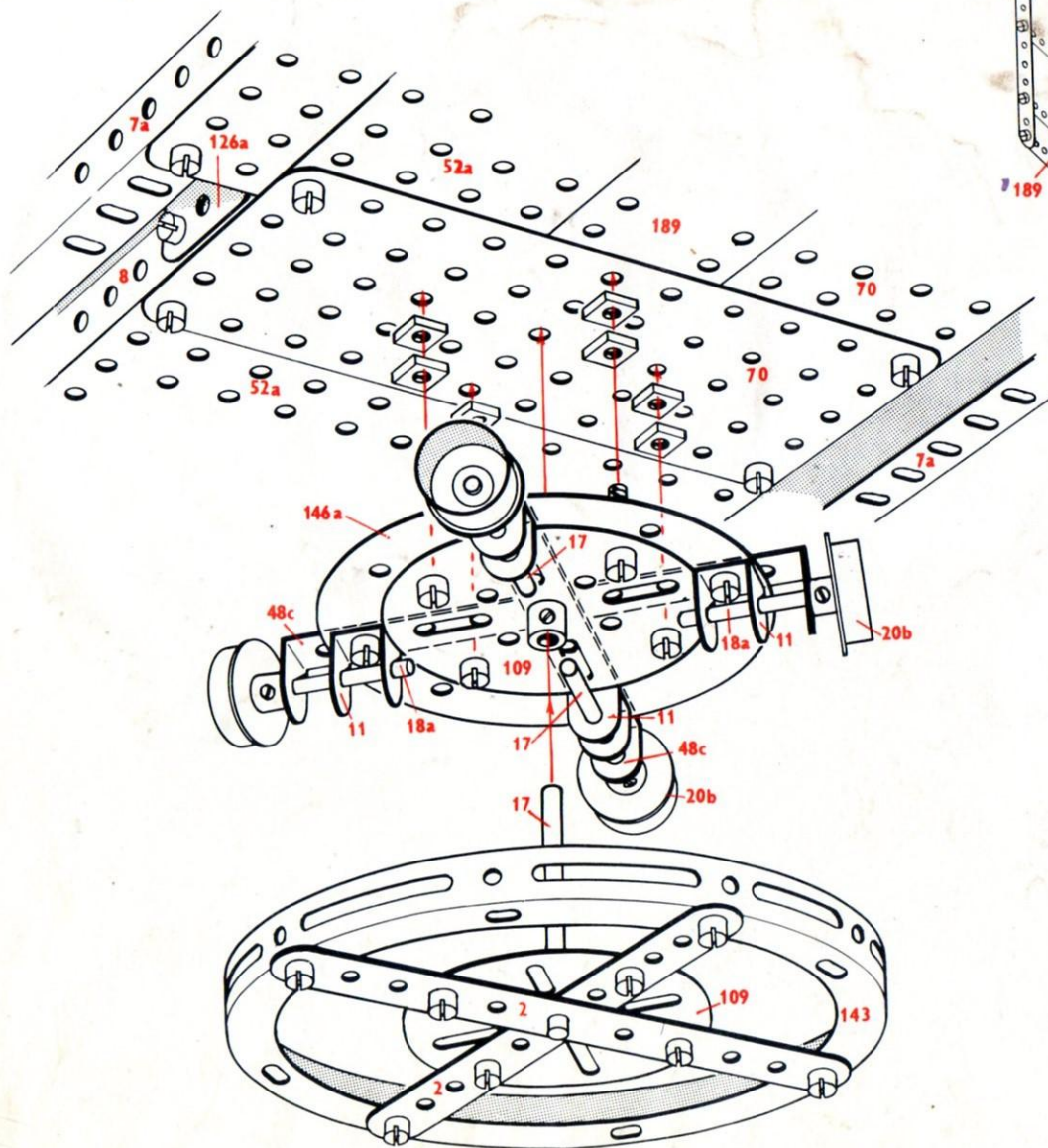
The jib-head and pulley assembly



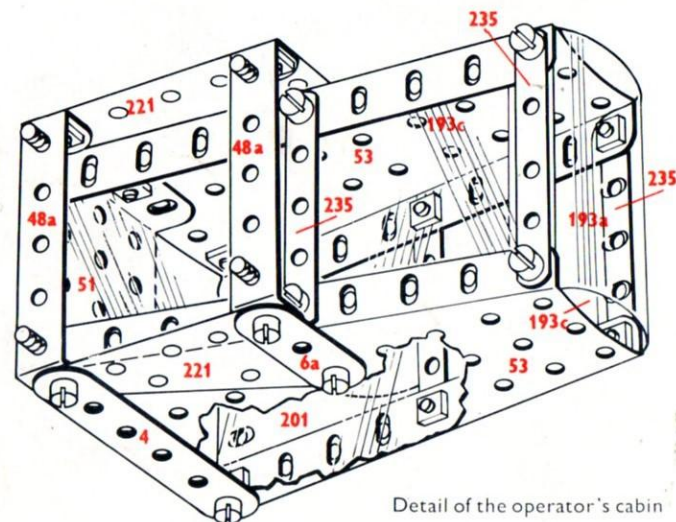
Bucket and operating cords

9.4

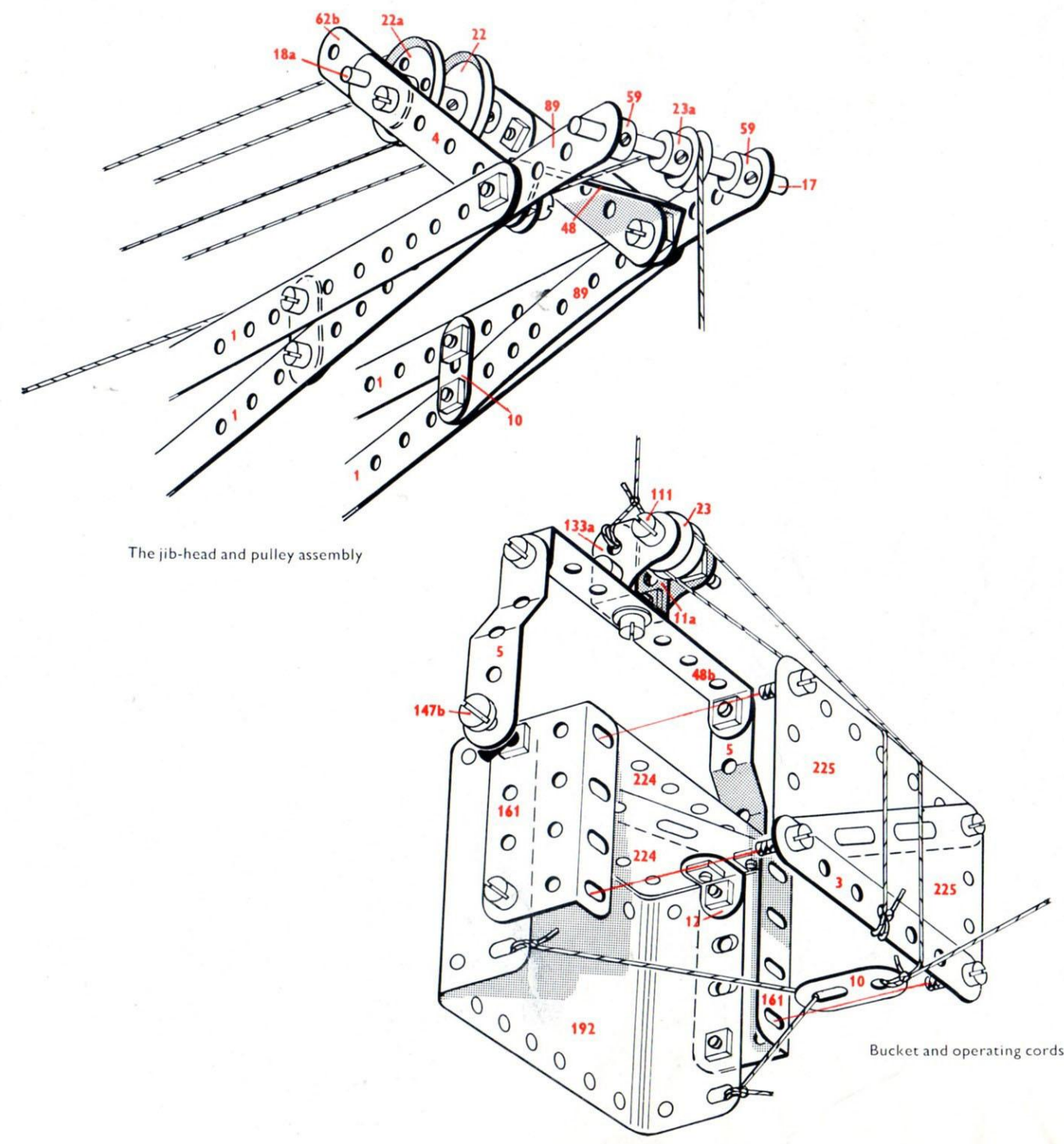
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2 - 1b	1 - 32	10 - 111c
24 - 2	4 - 35	1 - 115a
6 - 2a	329 - 37a	2 - 120b
5 - 3	299 - 37b	6 - 126a
8 - 4	31 - 38	2 - 133a
13 - 5	1 - 38d	2 - 136
4 - 6	2 - 40	4 - 142a
5 - 6a	1 - 45	1 - 143
4 - 7a	1 - 48	1 - 146a
6 - 8	9 - 48a	2 - 147b
2 - 8a	3 - 48b	2 - 155
4 - 9	2 - 48c	2 - 161
1 - 9d	1 - 51	1 - 163
1 - 9f	2 - 52	2 - 164
4 - 10	4 - 52a	1 - 165
5 - 11	4 - 53	2 - 176
1 - 11a	2 - 53a	2 - 179
12 - 12	2 - 54	5 - 188
2 - 12b	12 - 59	6 - 189
3 - 14	2 - 62	12 - 190
3 - 15	2 - 62b	3 - 191
2 - 15a	6 - 63	12 - 192
1 - 15b	2 - 70	1 - 193a
5 - 16	2 - 76	2 - 193c
2 - 16a	1 - 80c	2 - 193e
4 - 17	2 - 89	2 - 194
4 - 18a	4 - 90	3 - 194d
2 - 20	4 - 90a	6 - 197
2 - 20a	1 - 94	6 - 200
4 - 20b	1 - 95	1 - 201
5 - 22	1 - 95b	2 - 212
4 - 22a	1 - 96	4 - 214
3 - 23	1 - 96a	2 - 221
1 - 23a	2 - 99	2 - 224
1 - 24	2 - 100	2 - 225
1 - 24a	1 - 102	2 - 226
1 - 25	2 - 108	4 - 235
5 - 26	2 - 109	
1 - 27	2 - 111	



The body, seen from the front end



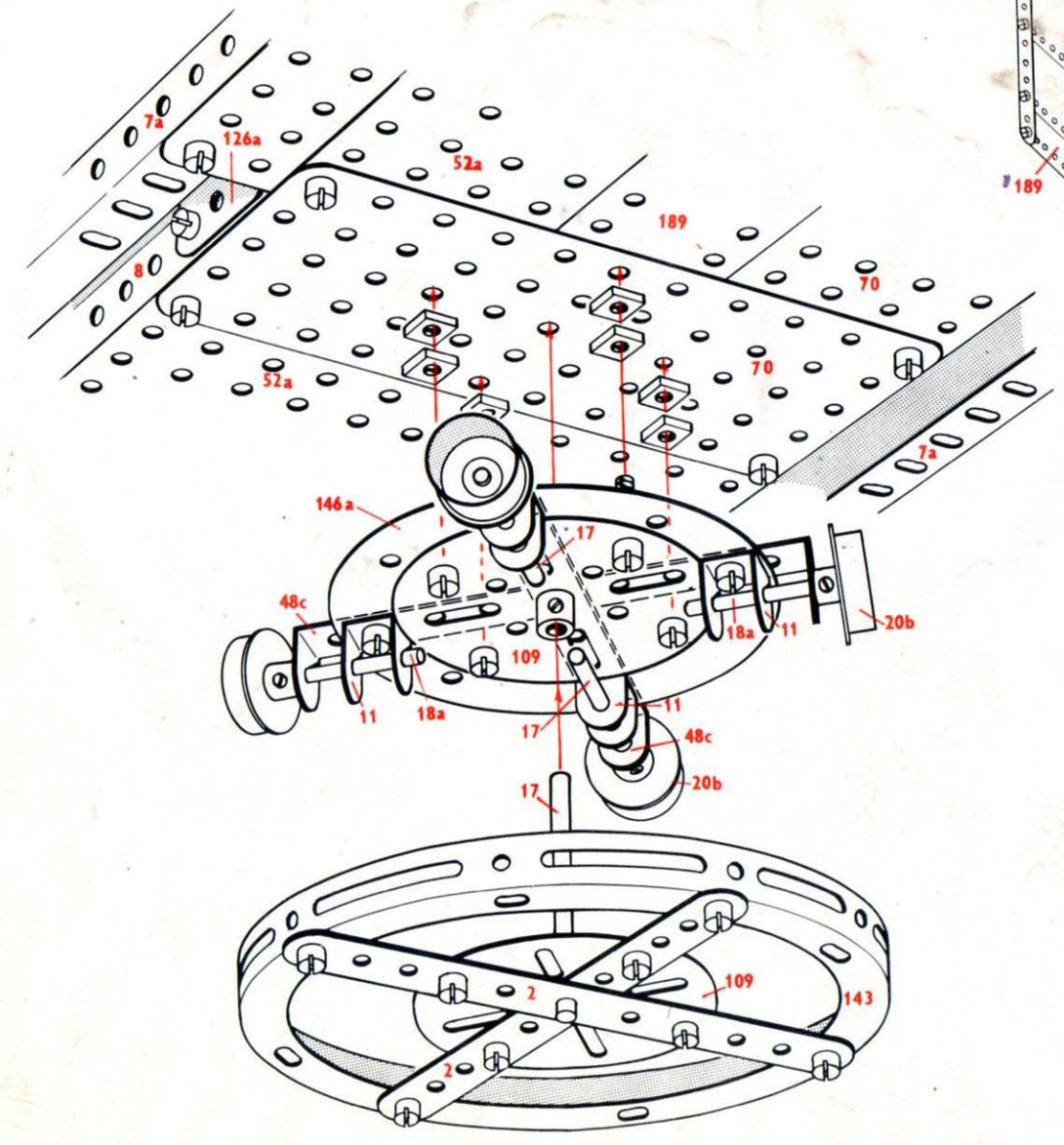
Detail of the operator's cabin



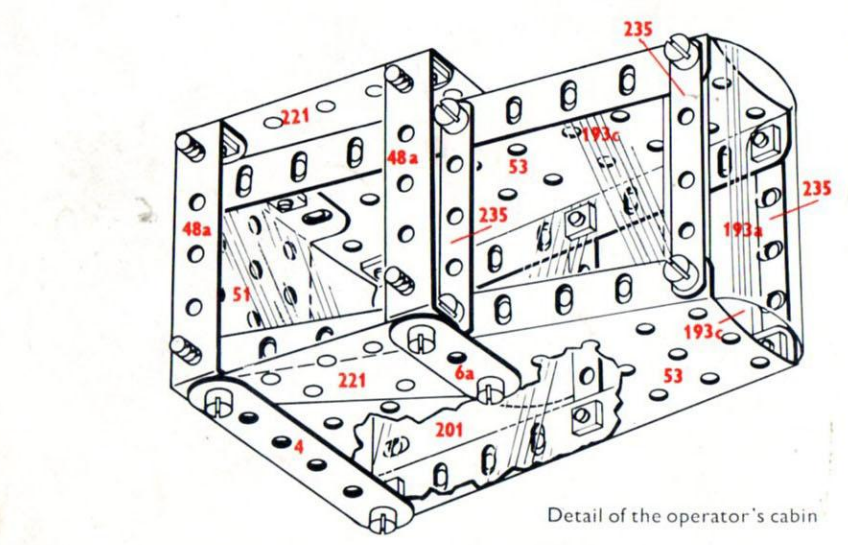
9.4

14 - 1	2 - 27a	3 - 111a
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13 - 5	1 - 38d	2 - 136
4 - 6	2 - 40	4 - 142a
5 - 6a	1 - 45	1 - 143
4 - 7a	1 - 48	1 - 146a
6 - 8	9 - 48a	2 - 147b
2 - 8a	3 - 48b	2 - 155
4 - 9	2 - 48c	2 - 161
1 - 9d	1 - 51	1 - 163
1 - 9f	2 - 52	2 - 164
4 - 10	4 - 52a	1 - 165
5 - 11	4 - 53	2 - 176
1 - 11a	2 - 53a	2 - 179
12 - 12	2 - 54	5 - 188
2 - 12b	12 - 59	6 - 189
3 - 14	2 - 62	12 - 190
3 - 15	2 - 62b	3 - 191
2 - 15a	6 - 63	12 - 192
1 - 15b	2 - 70	1 - 193a
5 - 16	2 - 76	2 - 193c
2 - 16a	1 - 80c	2 - 193e
4 - 17	2 - 89	2 - 194
4 - 18a	4 - 90	3 - 194d
2 - 20	1 - 94	6 - 197
2 - 20a	1 - 95	6 - 200
4 - 20b	1 - 95b	1 - 201
5 - 22	1 - 96	2 - 212
4 - 22a	1 - 96a	4 - 214
3 - 23	2 - 99	2 - 221
1 - 23a	2 - 100	2 - 224
1 - 24	2 - 102	2 - 225
1 - 24a	2 - 108	2 - 226
5 - 25	2 - 109	4 - 235
5 - 26	2 - 111	
1 - 27		

The base and roller bearing on which the Dragline body is mounted



The body, seen from the front end

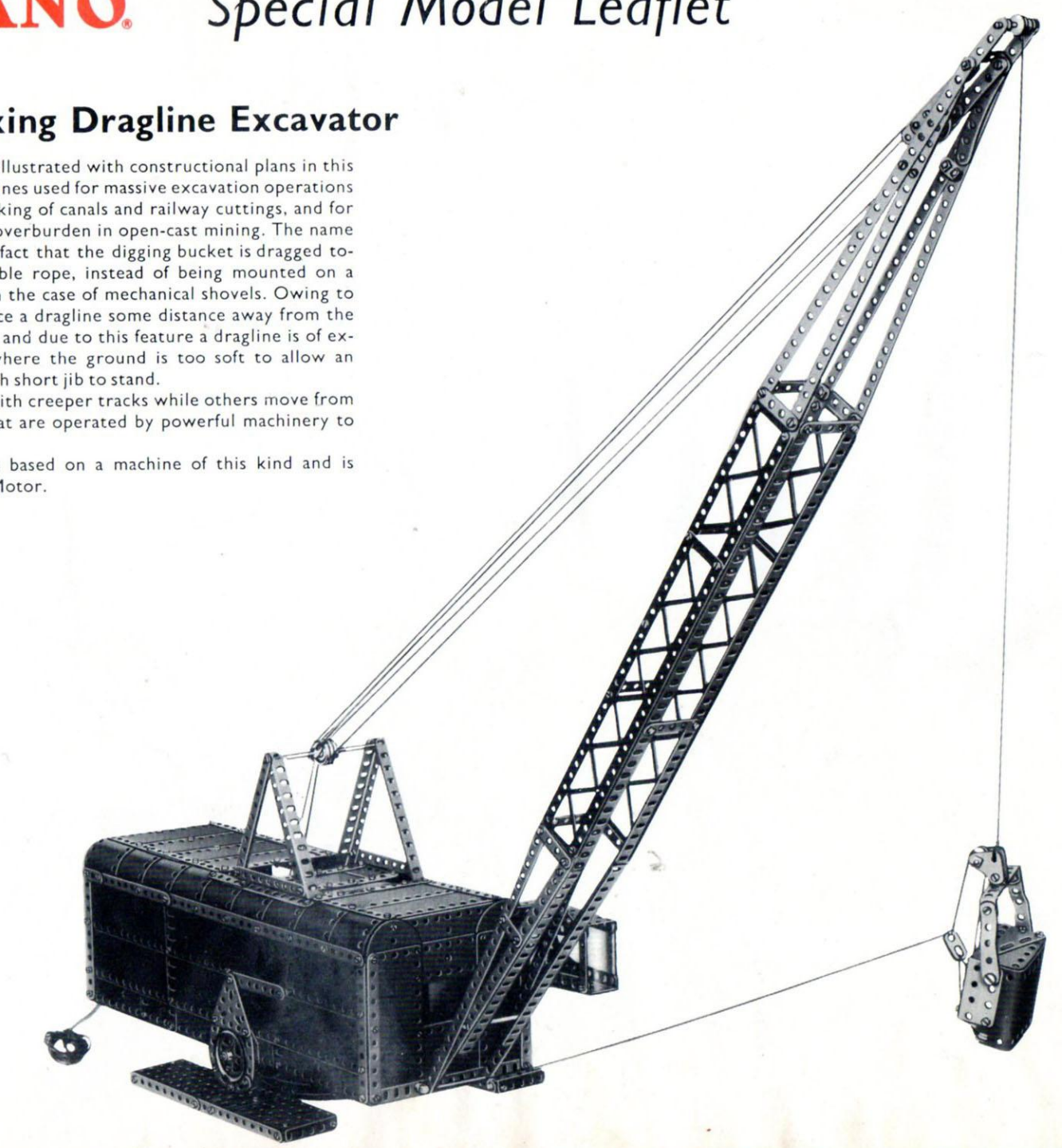


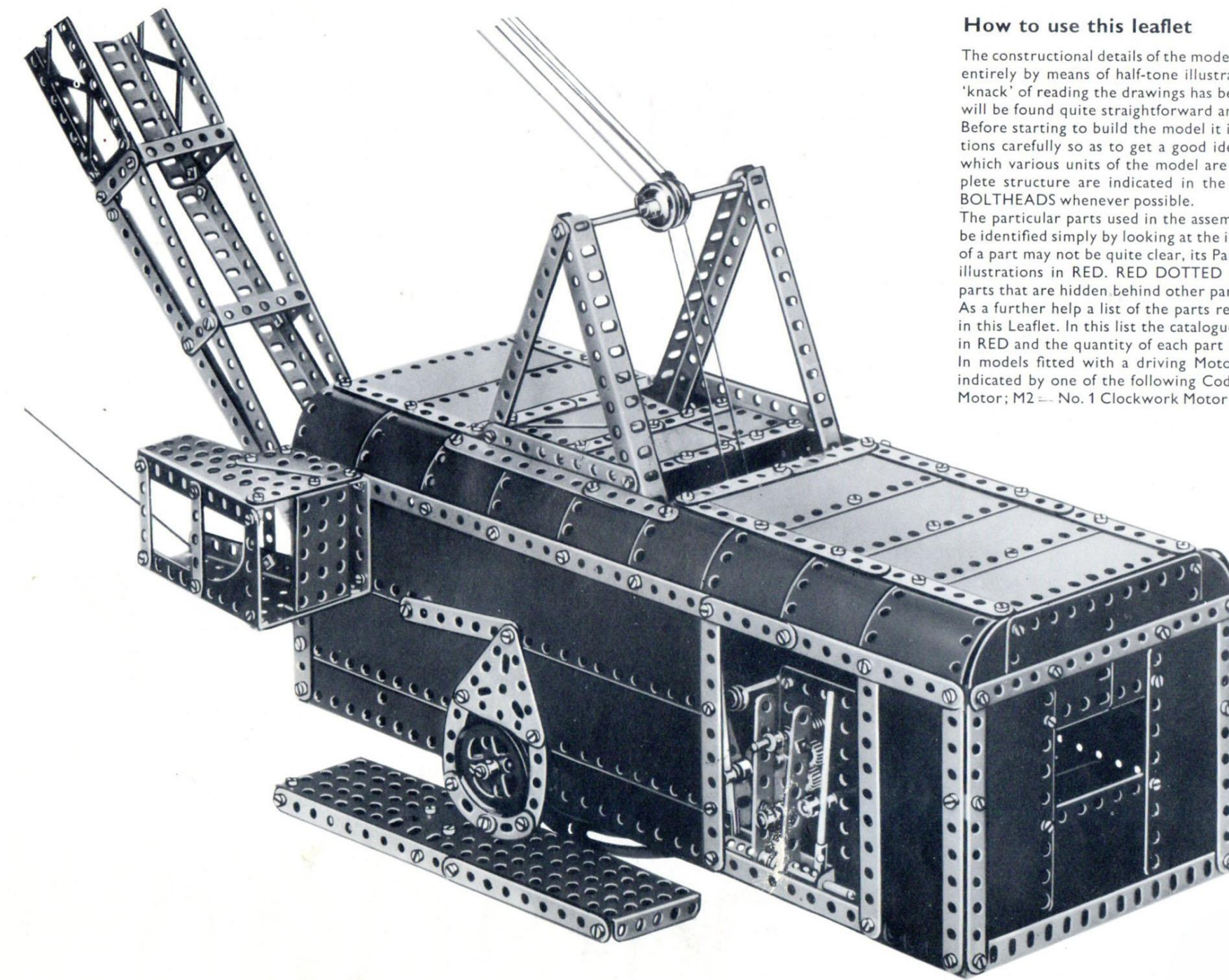
MECCANO® Special Model Leaflet

9.4

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How to use this leaflet

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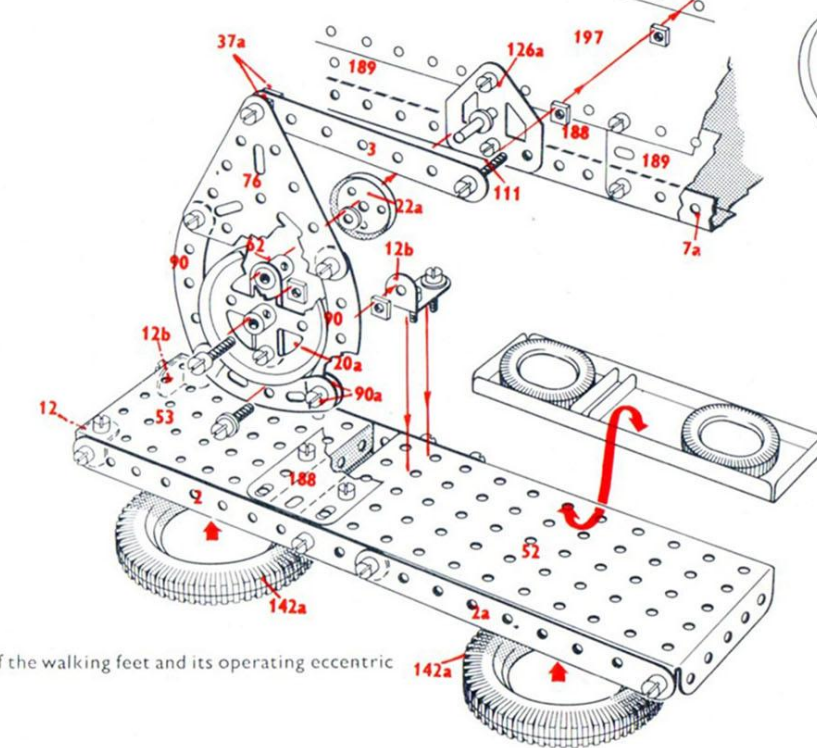
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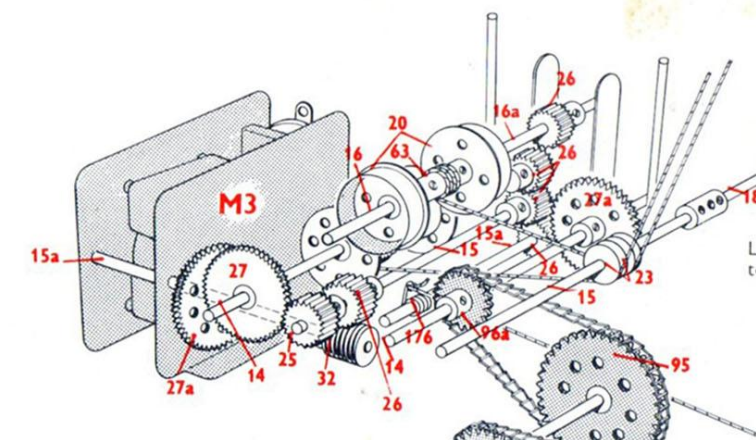
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One of the walking feet and its operating eccentric



M3



Layout of the winding mechanism and drive transmission to the walking feet

