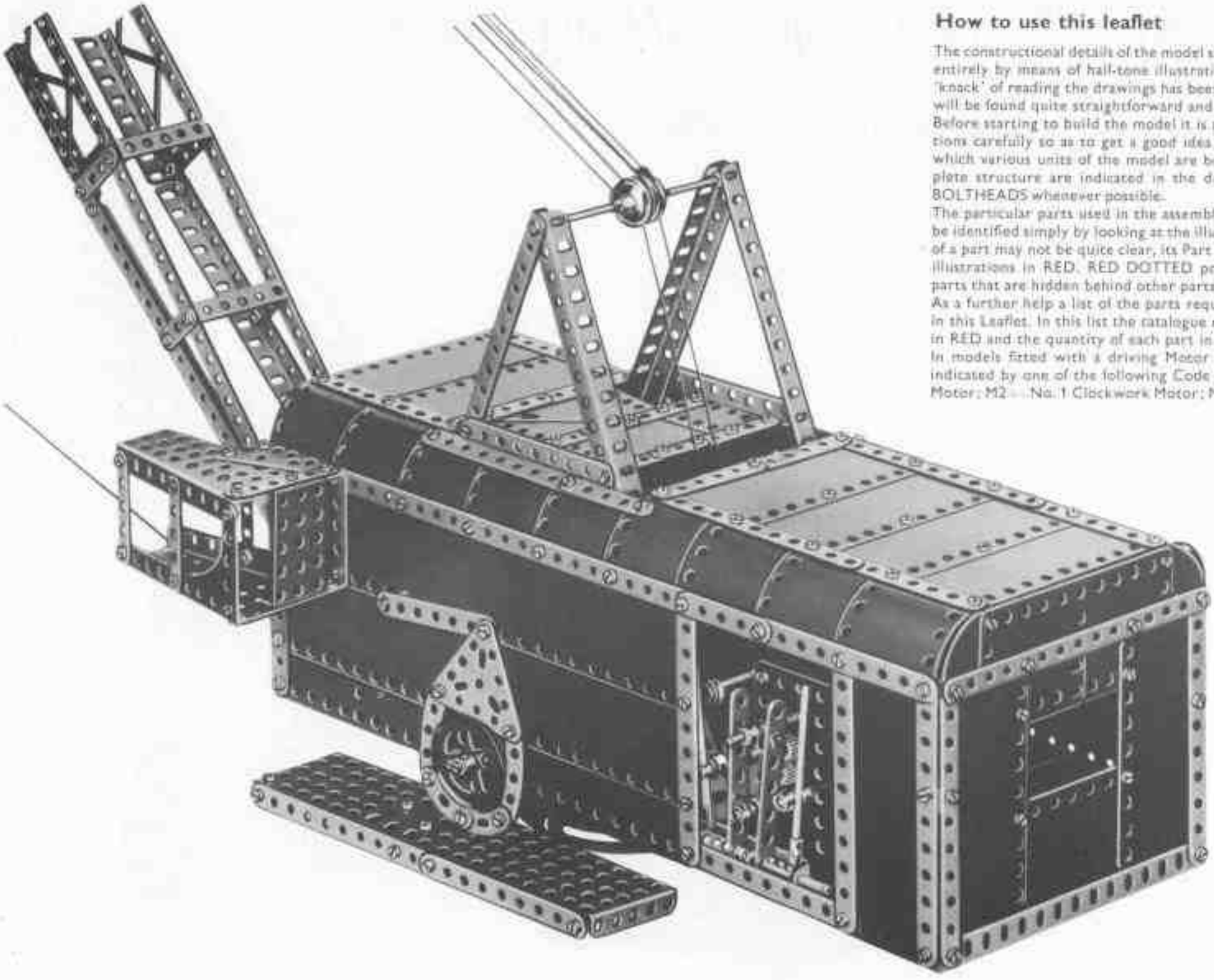
9.4 Giant Walking Dragline Excavator

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.



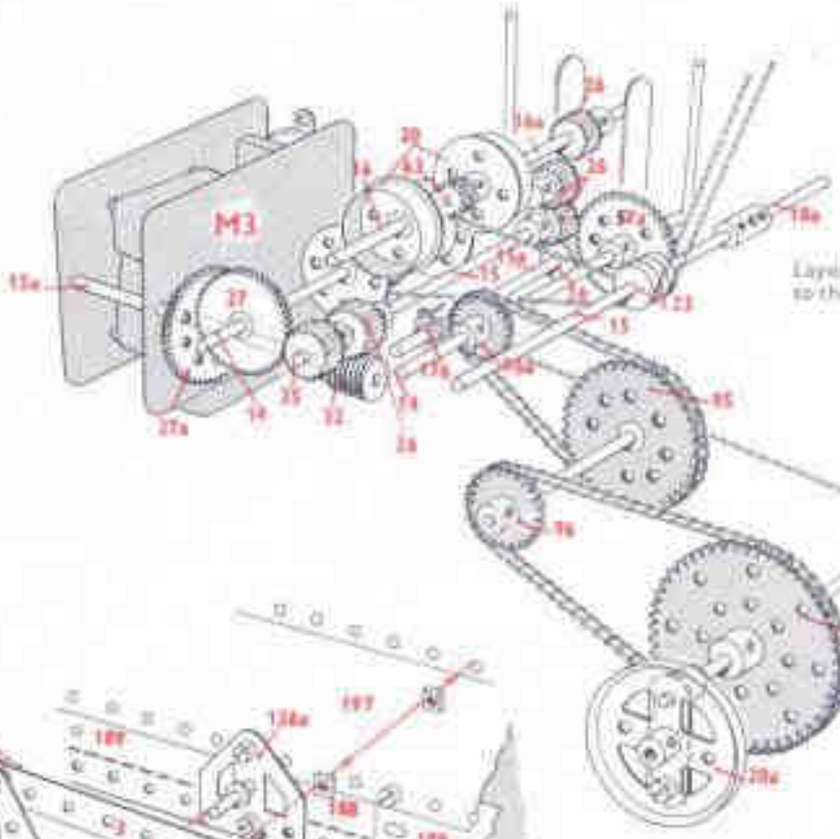
How to use this leaflet

The constructional details of the model shown in t
entirely by means of half-tone illustrations and i
'knack' of reading the drawings has been acquired
will be found quite straightforward and simple to
Before starting to build the model it is advisable
tions carefully so as to get a good idea of its var
which various units of the model are bolted toge
plate structure are indicated in the drawings b
BOLTHEADS wherever possible.
The particular parts used in the assembly of the
be identified simply by looking at the illustrations,
of a part may not be quite clear, its Part Number
illustrations in RED. RED DOTTED pointer lines
parts that are hidden behind other parts of the str
As a further help a list of the parts required to b
in this Leaflet. In this list the catalogue numbers
in RED and the quantity of each part in BLACK.
In models fitted with a driving Motor the parts
indicated by one of the following Code Marks: M
Motor; M2 = No. 1 Clockwork Motor; M3 = Mecc

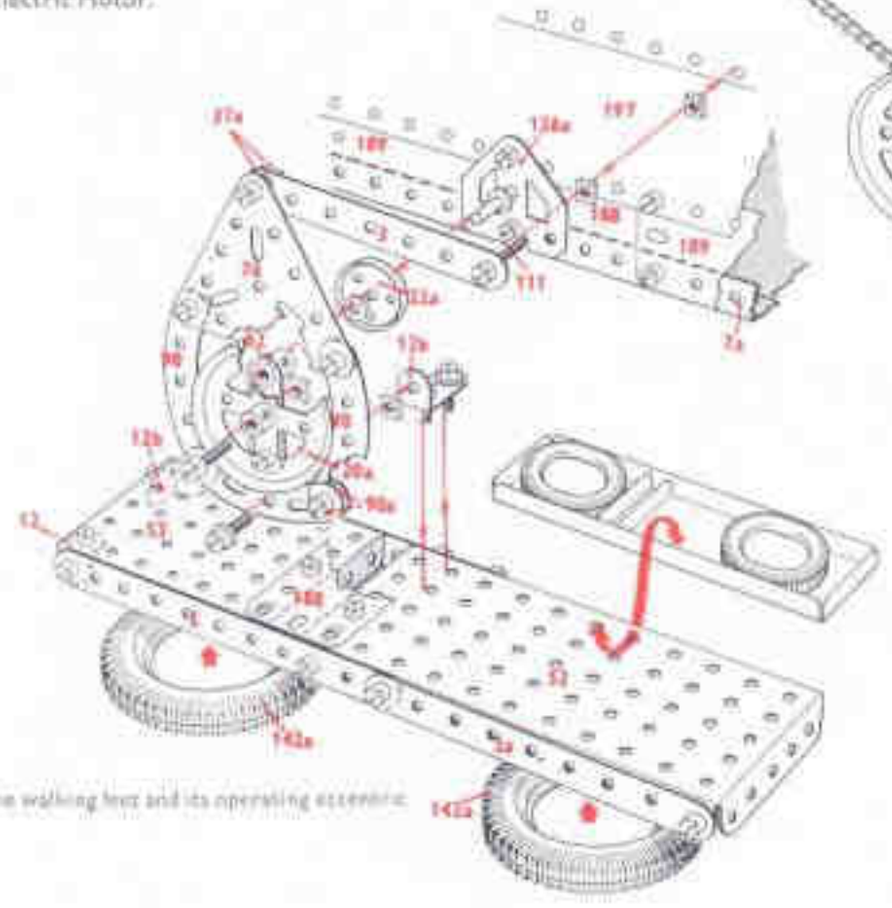
s Leaflet are explained
e drawings. Once the
assembly of the model
carry out.
study all the illustra-
ous sections. Points at
her to form the con-
RED DOTS or RED

odel can in most cases
out where the identity
printed on the model
are used to indicate
ucture.
ld the model is given
the parts are printed

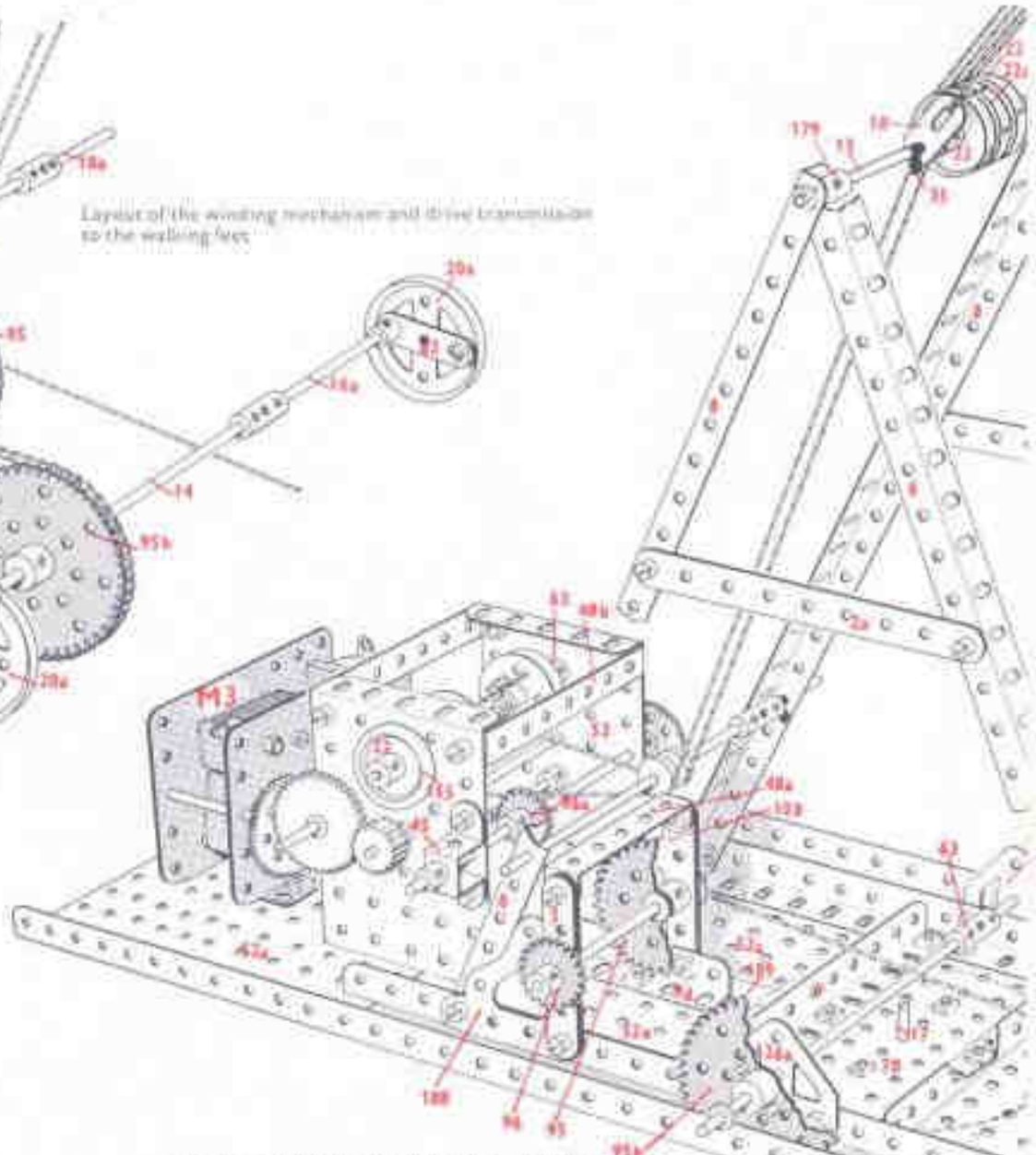
ular type of Motor is
— Magic Clockwork
no Electric Motor.



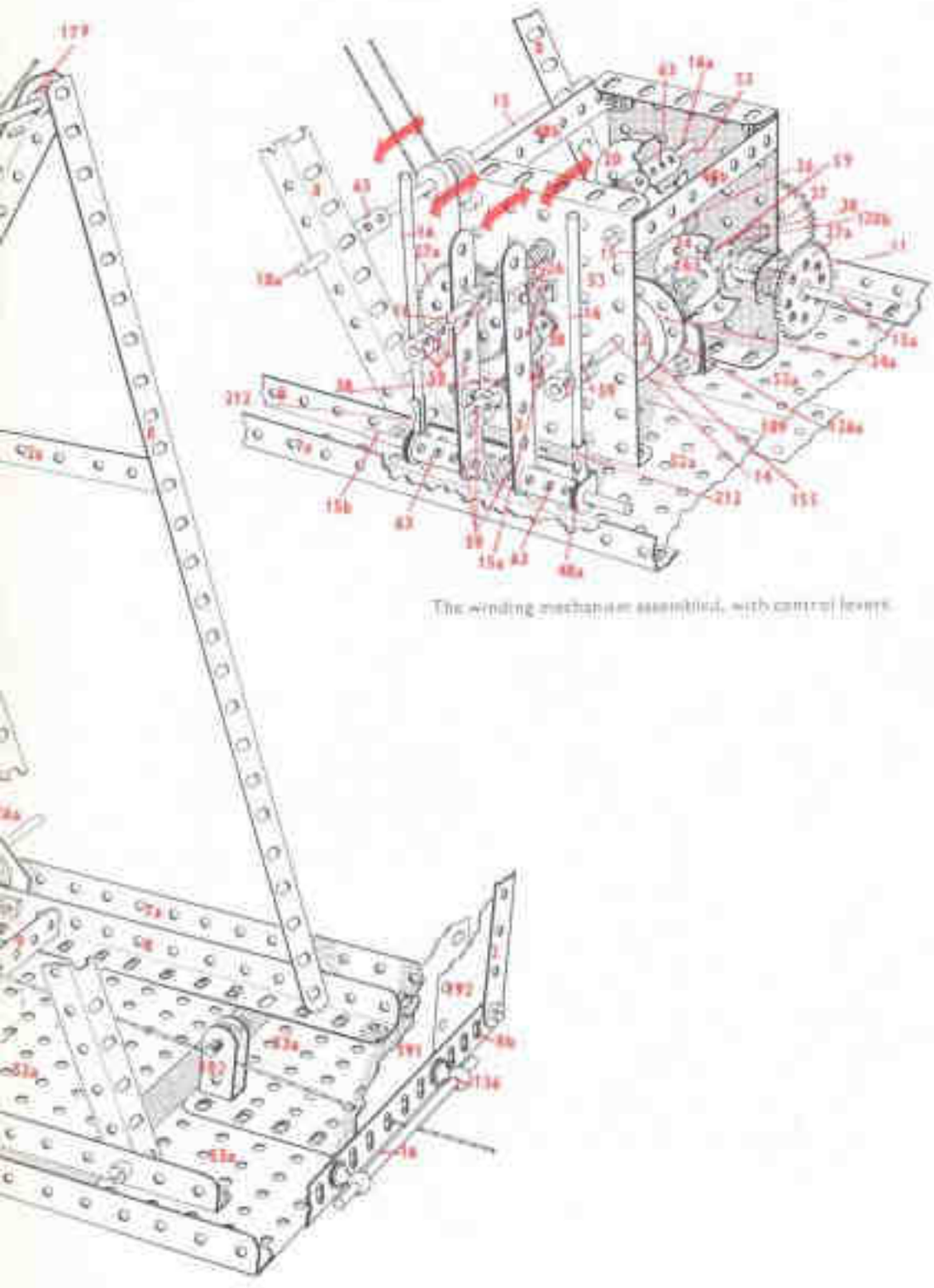
Layout of the winding mechanism and drive transmission to the walking feet



of the walking feet and its operating eccentric

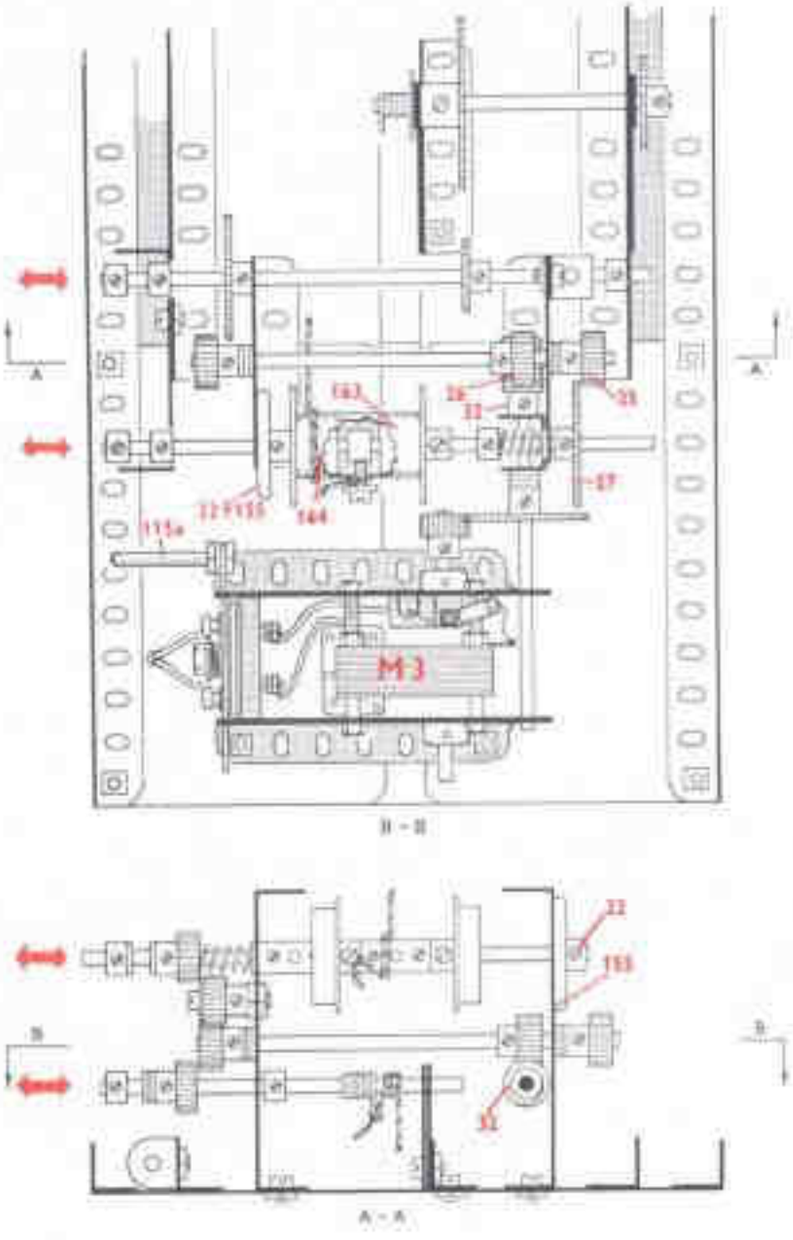


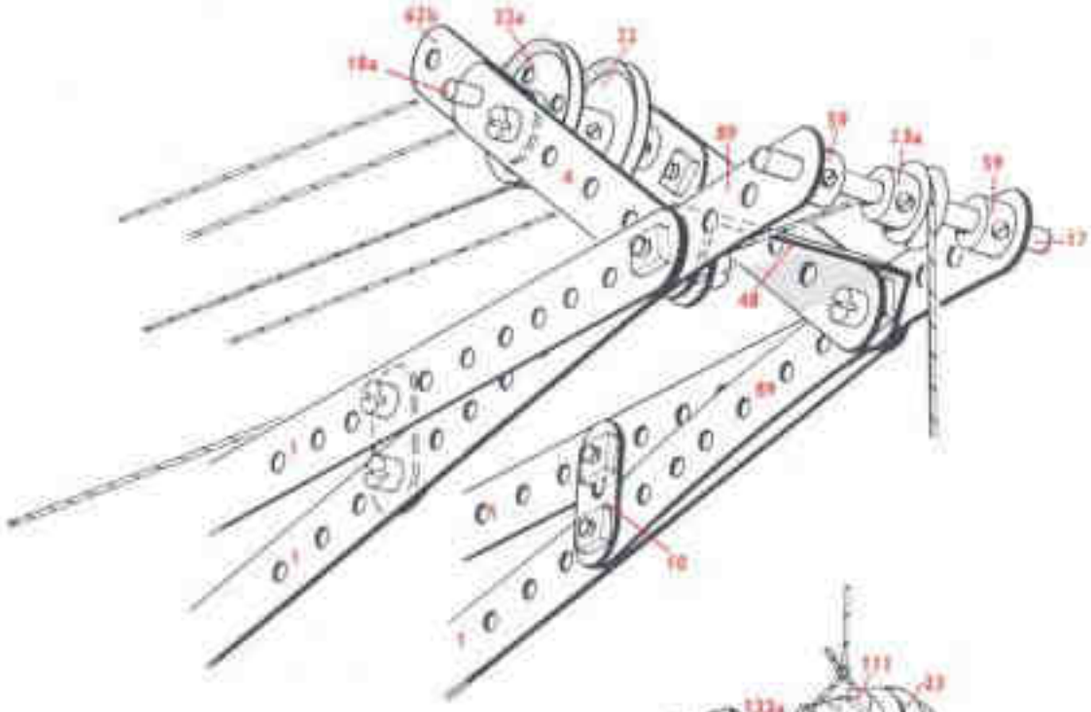
The base of the body with mechanism and detail of A frames



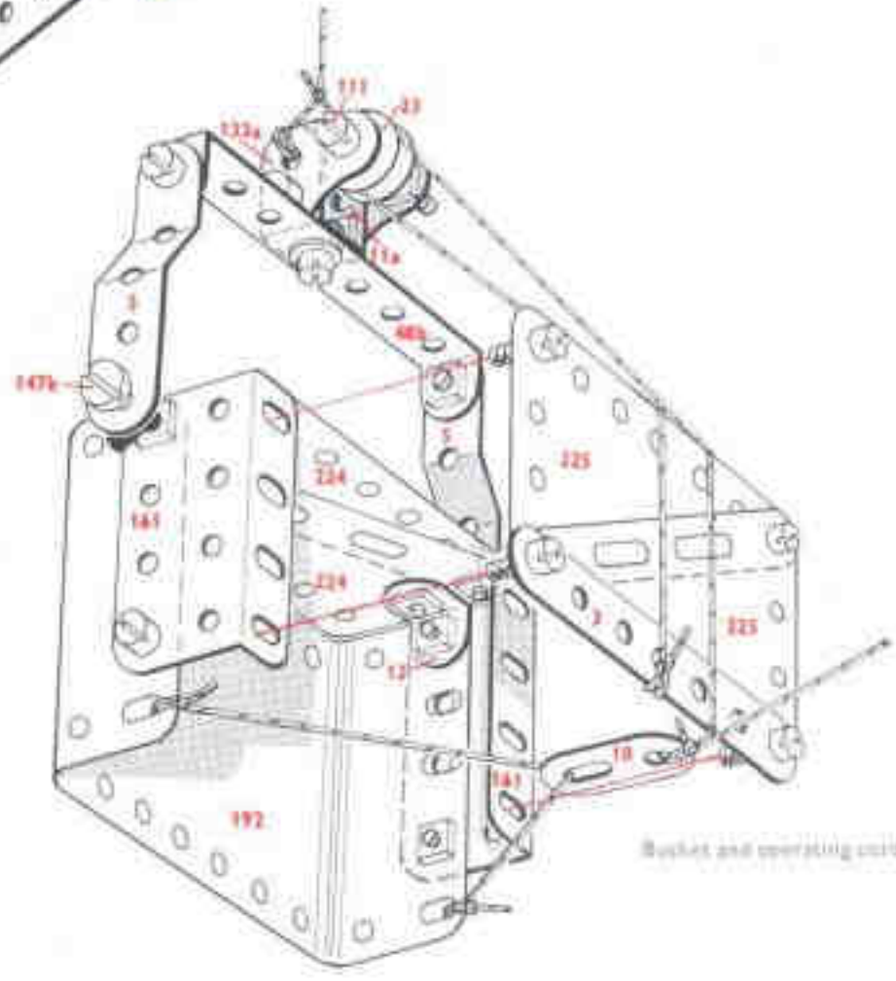
The winding mechanism assembled, with control levers

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





The jib-head and pulley assembly

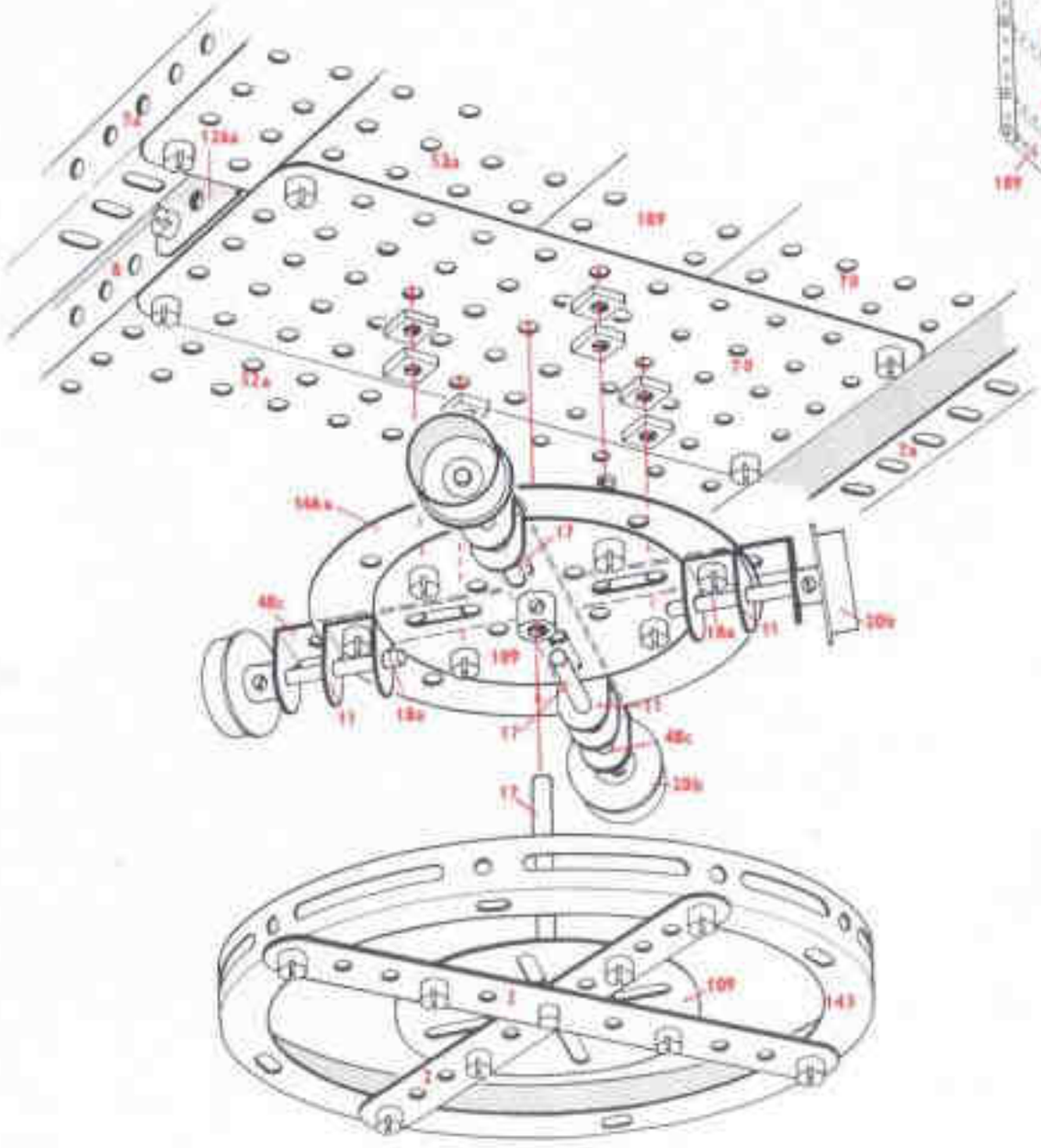


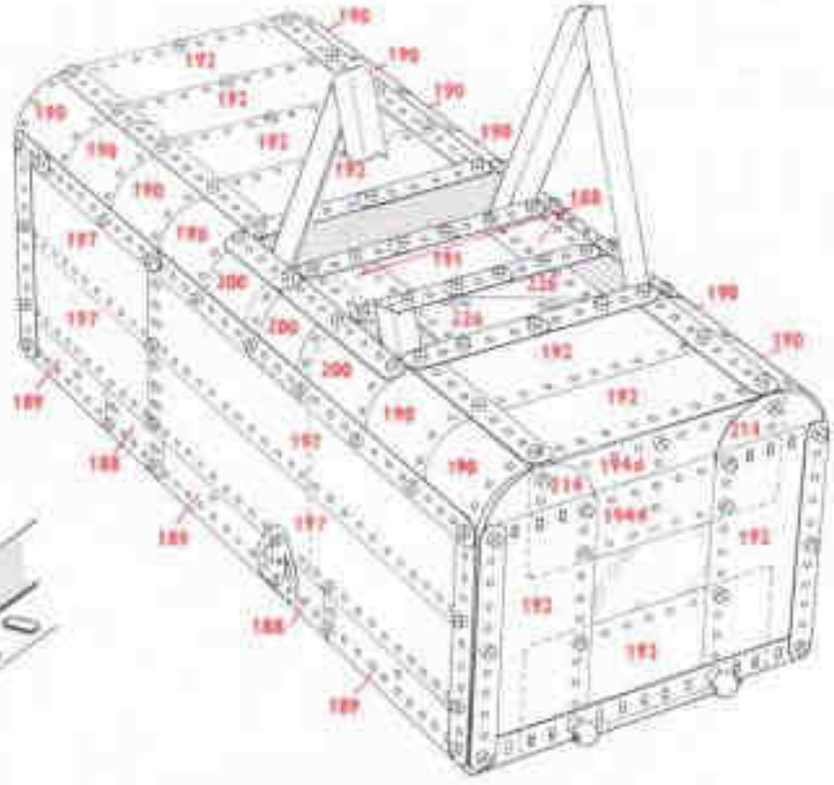
Bucket and operating cords

9.4

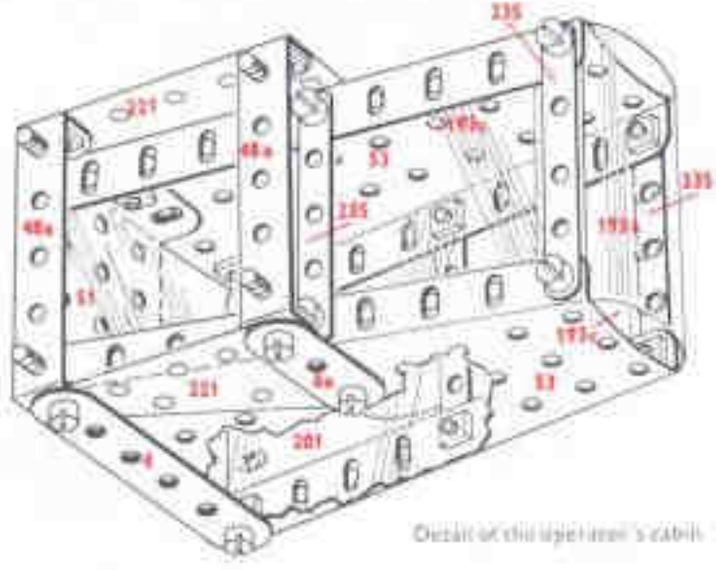
14 – 1	2 – 27a	3 – 111a
2 – 1b	1 – 32	10 – 111c
24 – 2	4 – 35	1 – 115a
6 – 2a	329 – 37a	2 – 120b
5 – 3	299 – 37b	6 – 126a
8 – 4	31 – 38	2 – 133a
12 – 5	1 – 38a	2 – 136
4 – 6	2 – 40	4 – 142a
5 – 6a	1 – 45	1 – 143
4 – 7a	1 – 48	1 – 146a
6 – 8	1 – 48a	1 – 147b
2 – 8a	3 – 48b	2 – 153
4 – 9	2 – 48c	2 – 161
1 – 9a	1 – 51	1 – 162
1 – 9b	2 – 52	2 – 164
4 – 10	4 – 52a	1 – 165
5 – 11	4 – 53	2 – 178
1 – 11a	2 – 53a	2 – 179
12 – 12	2 – 54	5 – 188
2 – 12a	13 – 59	6 – 189
3 – 14	2 – 62	12 – 190
3 – 15	2 – 62a	3 – 191
2 – 15a	6 – 63	12 – 192
1 – 15b	2 – 70	1 – 193a
5 – 16	2 – 71	2 – 193c
2 – 16a	2 – 80c	2 – 195a
4 – 17	2 – 89	2 – 196
4 – 18a	4 – 90	3 – 196d
2 – 20	4 – 90a	6 – 197
2 – 20a	4 – 94	6 – 200
4 – 20b	4 – 95	1 – 201
5 – 22	4 – 95a	2 – 212
4 – 22a	4 – 96	4 – 214
3 – 23	4 – 96a	2 – 221
1 – 23a	2 – 99	2 – 224
1 – 24	2 – 100	2 – 225
1 – 24a	2 – 102	2 – 226
1 – 25	2 – 108	4 – 235
5 – 26	2 – 109	
1 – 27	2 – 111	

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





The body, seen from the front end



Detail of the operator's cabin

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