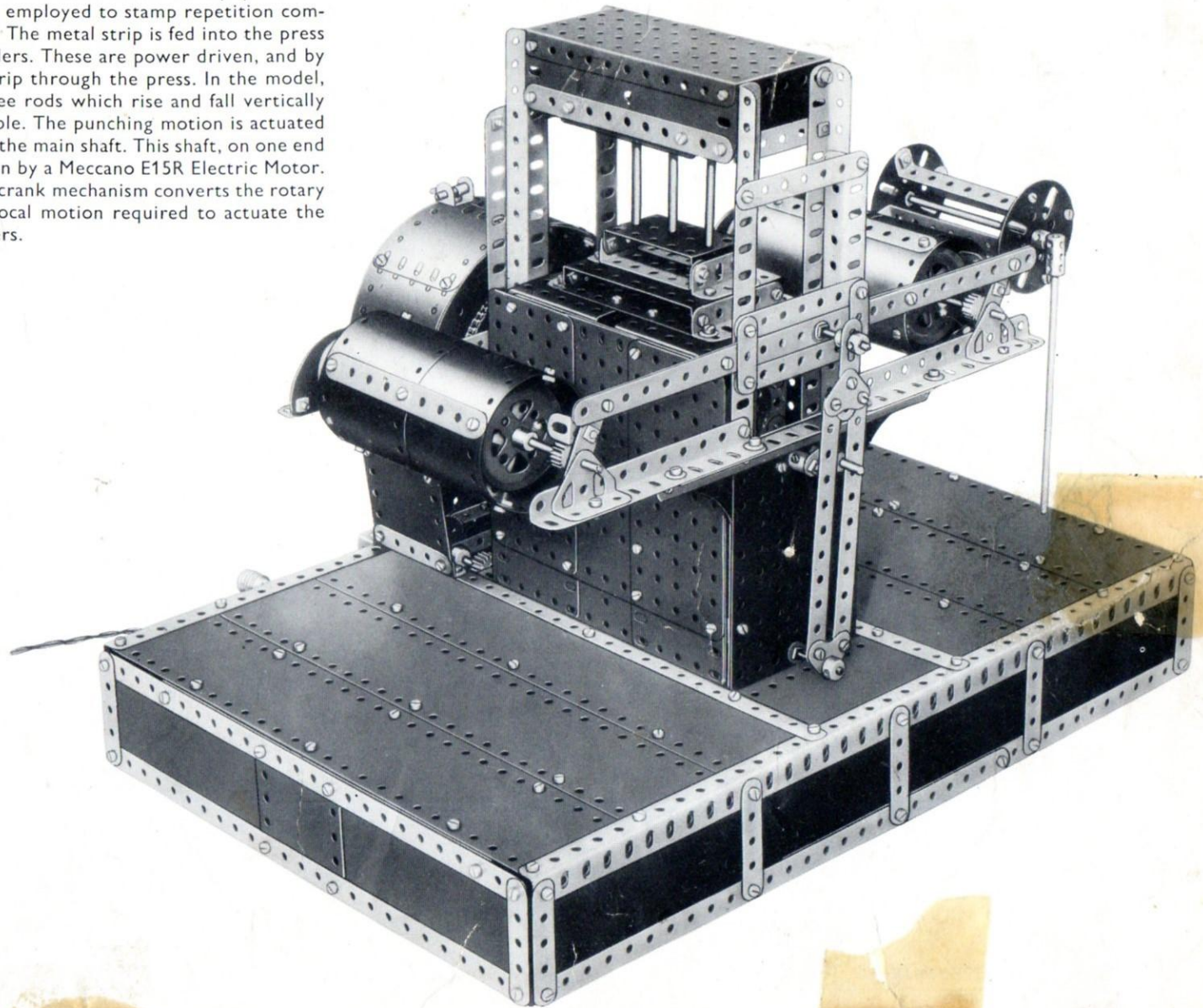
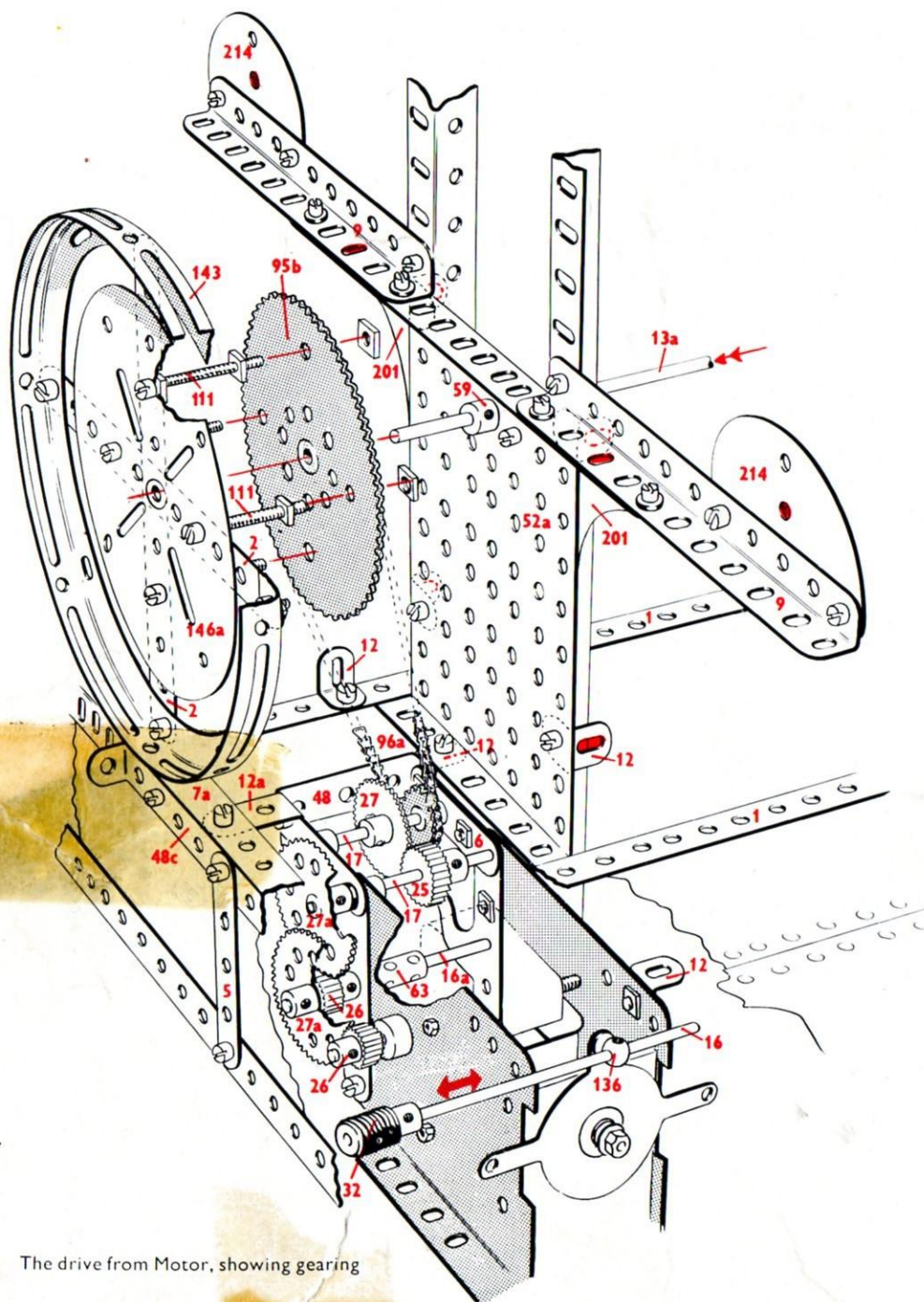


## **9.5 High-Speed Press**

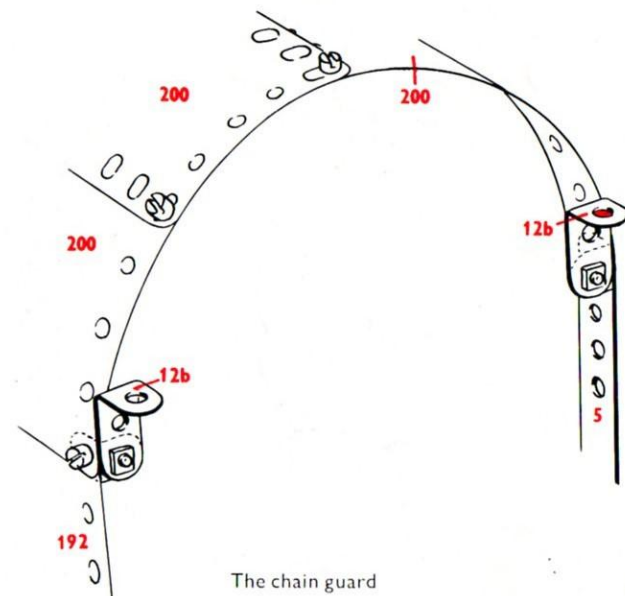
This Meccano model of a High-Speed Press is based on equipment in common use in industry where it is employed to stamp repetition components from strip steel or tinplate. The metal strip is fed into the press from a reel and passes over two rollers. These are power driven, and by turning intermittently, carry the strip through the press. In the model, the punching device consists of three rods which rise and fall vertically and mate with holes in the work table. The punching motion is actuated by means of an eccentric drive from the main shaft. This shaft, on one end of which is a heavy flywheel, is driven by a Meccano E15R Electric Motor. At the other end of the main shaft a crank mechanism converts the rotary motion of the shaft into the reciprocal motion required to actuate the intermittent motion of the feed rollers.







The drive from Motor, showing gearing



### How to use this leaflet

The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the 'knack' of reading the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever possible.

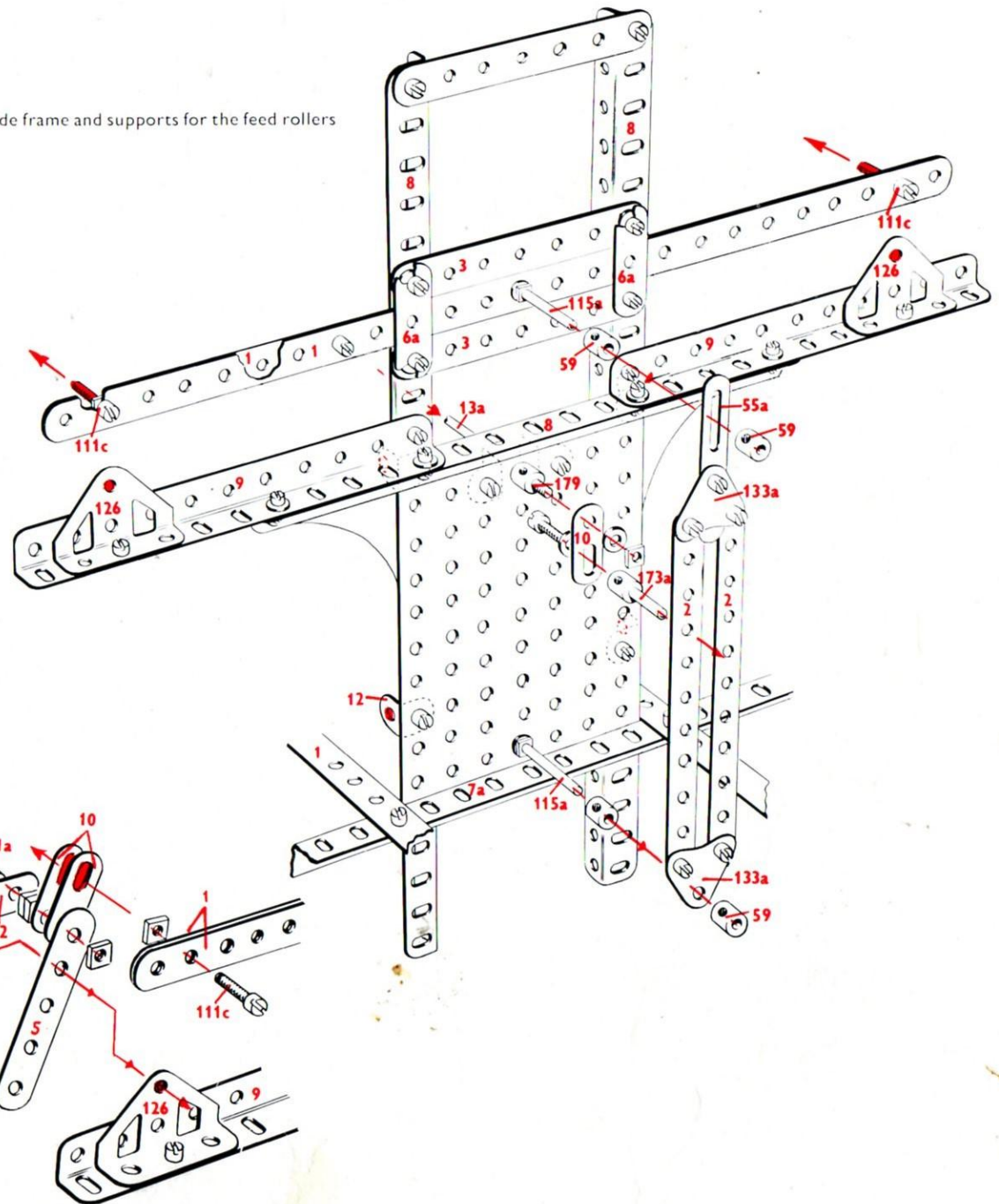
The particular parts used in the assembly of the model can in most cases be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that are hidden behind other parts of the structure.

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 of the parts are printed in RED and the quantity of each part in BLACK.

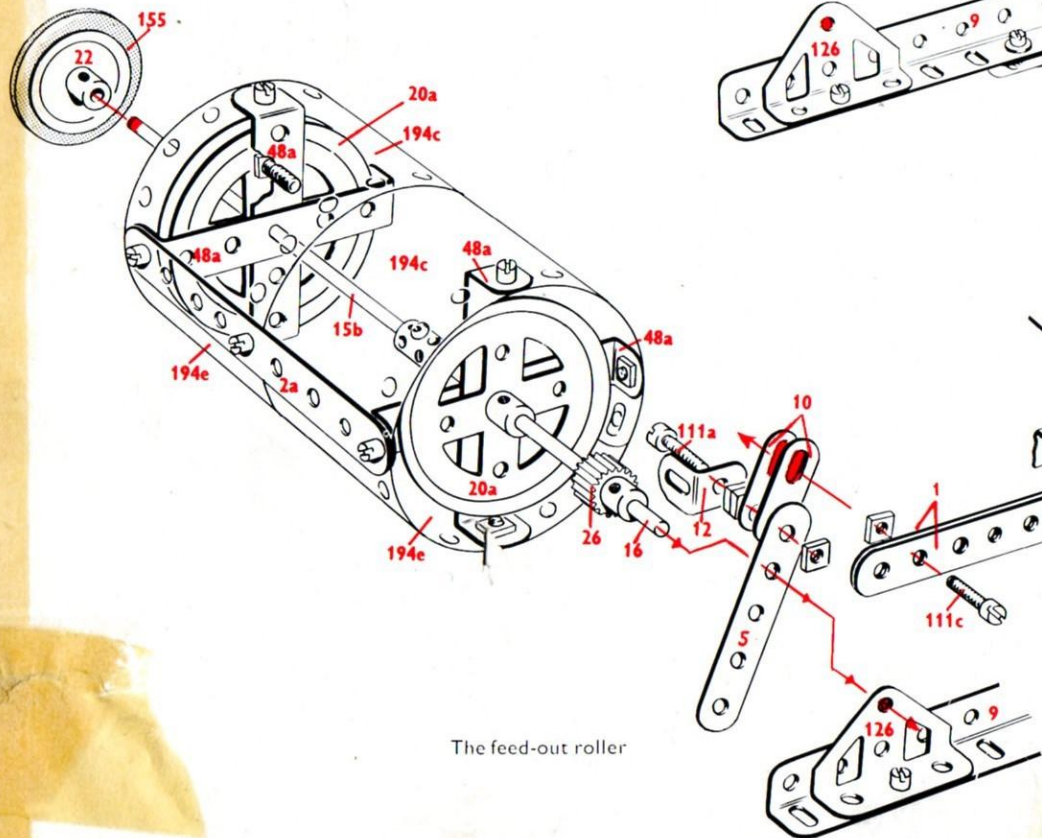
In models fitted with a driving Motor the particular type of Motor is indicated by one of the following Code Marks: M1 = Magic Clockwork Motor; M2 = No. 1 Clockwork Motor; M3 = Meccano Electric Motor.



The side frame and supports for the feed rollers



The feed-out roller



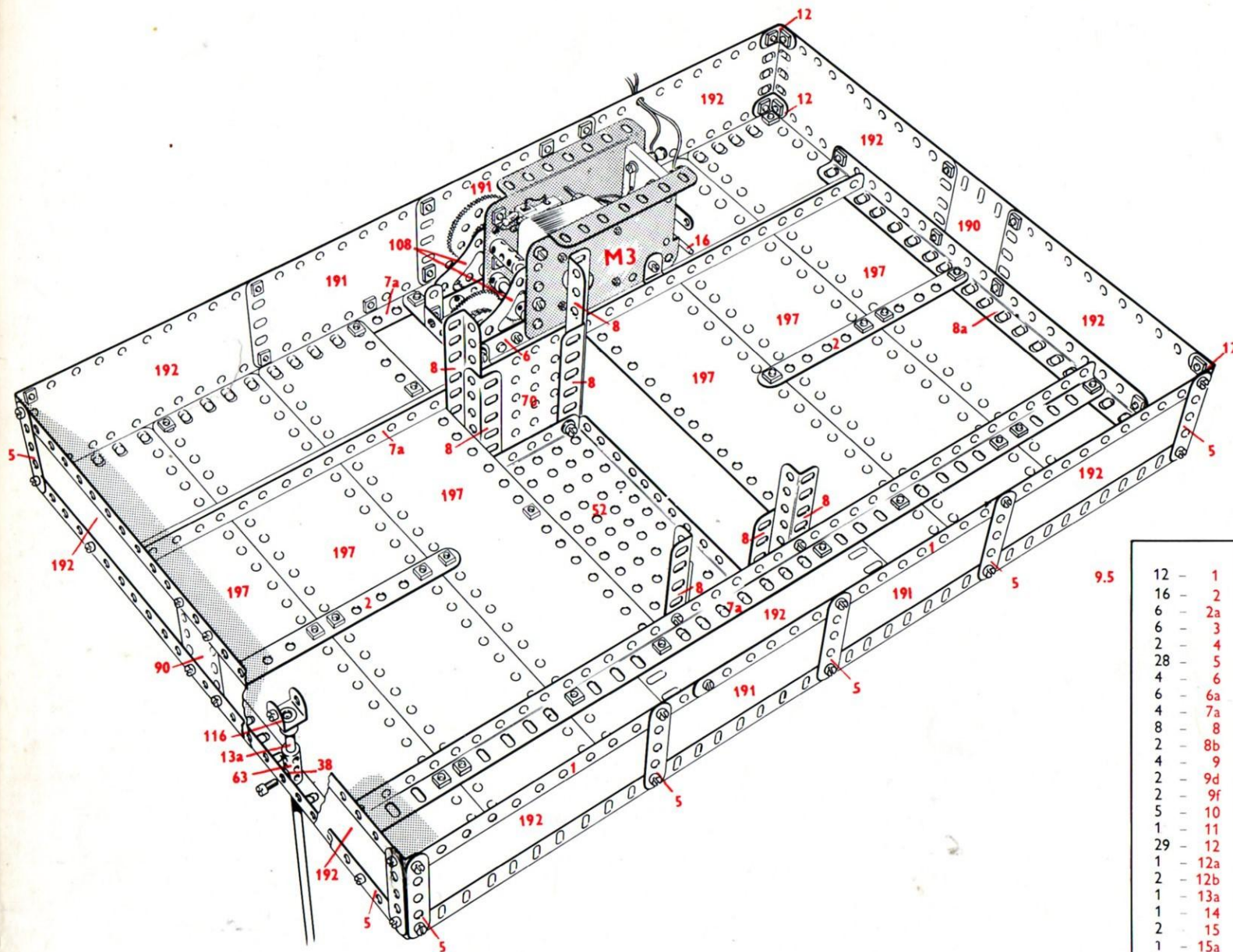


This diagram shows an exploded perspective view of a multi-layer printed circuit board (PCB) assembly. The assembly consists of several layers and components, labeled with reference numerals:

- Top Layer:** Features a grid of circular holes. Labels include **A**, **B**, and **C** pointing to specific locations. A component labeled **51** is shown mounted on this layer. A dimension line labeled **48a** indicates a width.
- Intermediate Layer:** A layer below the top one, featuring a component labeled **9f** and a dimension line labeled **53**.
- Bottom Layer:** The base layer, featuring a dense grid of circular holes. Labels include **53a**, **70**, and **2** pointing to specific features or dimensions.
- Side Panels:** Two vertical panels, labeled **188** and **189**, are shown on the left and right sides of the assembly. They feature a grid of circular holes and are connected to the main assembly by screws.
- Other Labels:** **9d** points to a component on the bottom layer. **52a** and **52b** point to specific features on the side panels.

The Press bed and supporting frame

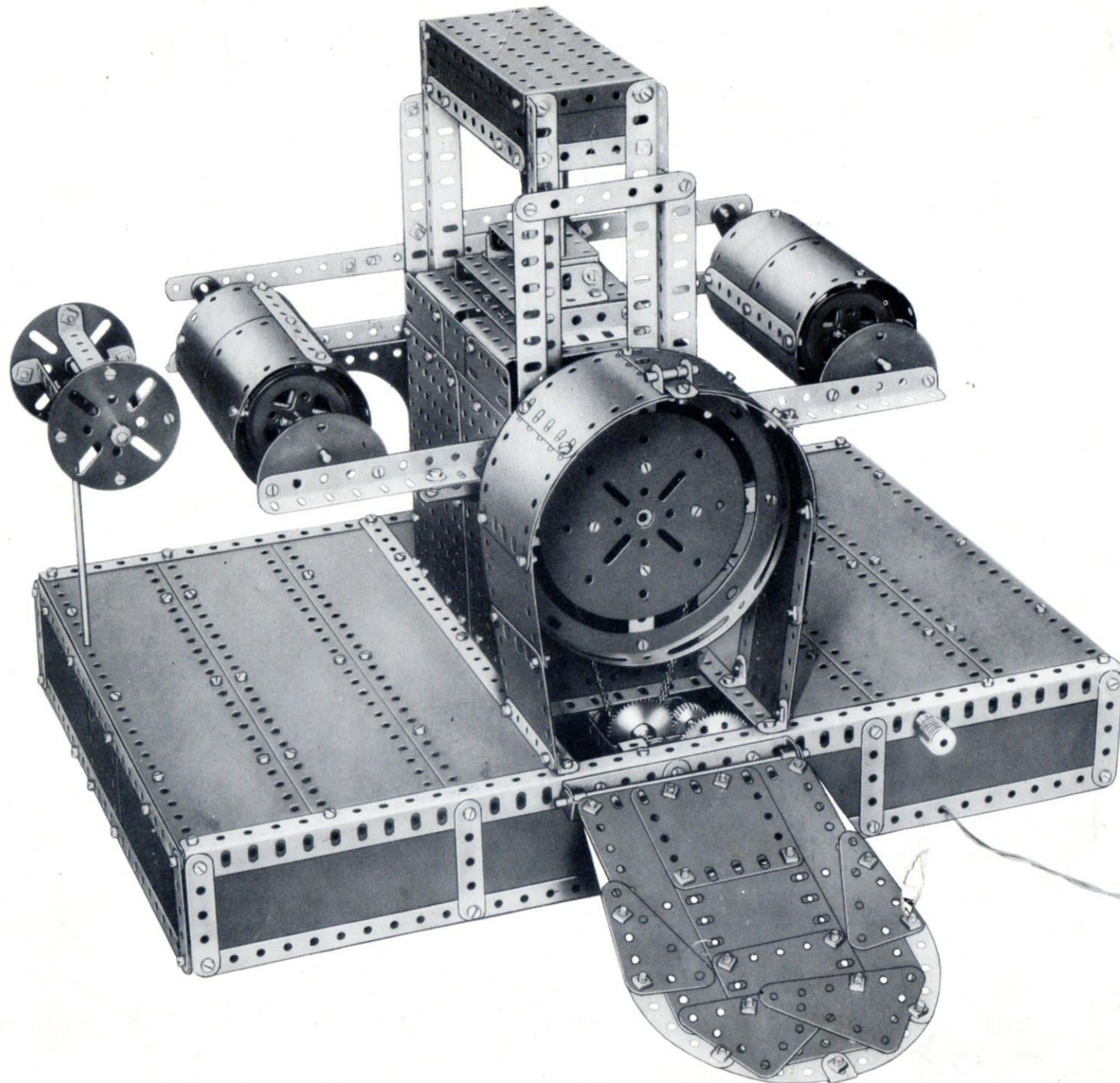




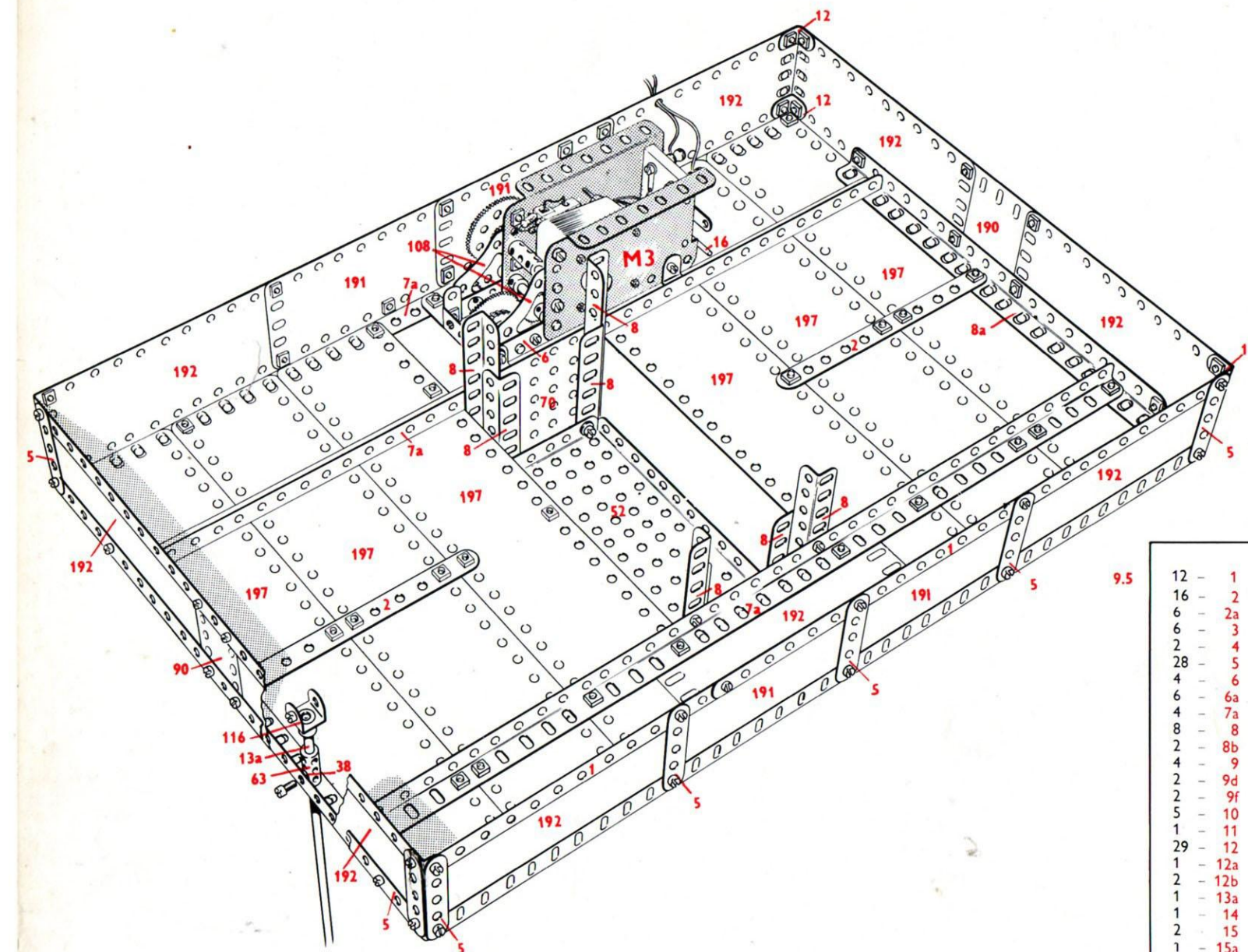
Underneath view of the base of the Press showing location of the driving Motor

12 - 1	2 - 22	4 - 111
16 - 2	1 - 25	8 - 111c
6 - 2a	4 - 26	2 - 115a
6 - 3	1 - 27	1 - 116
2 - 4	2 - 27a	2 - 126
28 - 5	1 - 32	2 - 133a
4 - 6	316 - 37a	1 - 136
6 - 6a	294 - 37b	1 - 143
4 - 7a	24 - 38	1 - 146a
8 - 8	2 - 45	1 - 154a
2 - 8b	2 - 46	1 - 154b
4 - 9	10 - 48a	2 - 155
2 - 9d	5 - 48b	1 - 173a
2 - 9f	1 - 48c	1 - 179
5 - 10	1 - 51	6 - 188
1 - 11	2 - 52	6 - 189
29 - 12	4 - 53	4 - 190
1 - 12a	2 - 53a	4 - 191
2 - 12b	1 - 55a	11 - 192
1 - 13a	12 - 59	4 - 194c
1 - 14	2 - 62	4 - 194e
2 - 15	2 - 62b	6 - 197
1 - 15a	4 - 63	6 - 200
2 - 15b	2 - 70	2 - 201
3 - 16	4 - 90	1 - 212a
3 - 16a	4 - 90a	2 - 214
3 - 17	1 - 94	8 - 215
1 - 18a	1 - 95b	2 - 221
1 - 18b	1 - 96a	2 - 222
4 - 20a	2 - 108	
2 - 21	2 - 109	



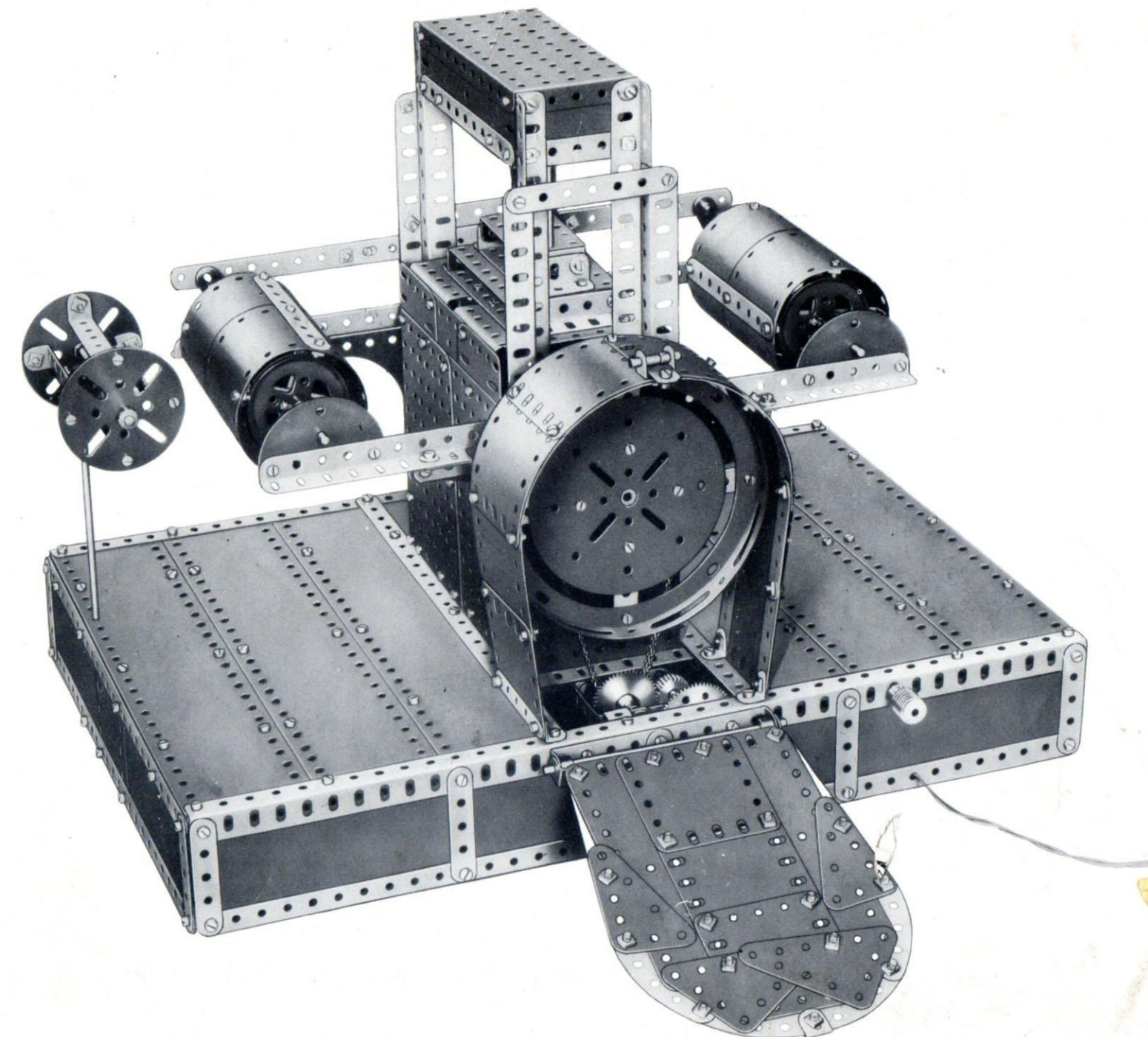






Underneath view of the base of the Press showing location of the driving Motor

12 - 1	2 - 22	4 - 111
16 - 2	1 - 25	8 - 111c
6 - 2a	4 - 26	2 - 115a
6 - 3	1 - 27	1 - 116
2 - 4	2 - 27a	2 - 126
28 - 5	1 - 32	2 - 133a
4 - 6	316 - 37a	1 - 136
6 - 6a	294 - 37b	1 - 143
4 - 7a	24 - 38	1 - 146a
8 - 8	2 - 45	1 - 154a
2 - 8b	2 - 46	1 - 154b
4 - 9	10 - 48a	2 - 155
2 - 9d	5 - 48b	1 - 173a
2 - 9f	1 - 48c	1 - 179
5 - 10	1 - 51	6 - 188
1 - 11	2 - 52	6 - 189
29 - 12	4 - 53	4 - 190
1 - 12a	2 - 53a	4 - 191
2 - 12b	1 - 55a	11 - 192
1 - 13a	12 - 59	4 - 194c
1 - 14	2 - 62	4 - 194e
2 - 15	2 - 62b	6 - 197
1 - 15a	4 - 63	6 - 200
2 - 15b	2 - 70	2 - 201
3 - 16	4 - 90	1 - 212a
3 - 16a	4 - 90a	2 - 214
3 - 17	1 - 94	8 - 215
1 - 18a	1 - 95b	2 - 221
1 - 18b	1 - 96a	2 - 222
4 - 20a	2 - 108	
2 - 21	2 - 109	

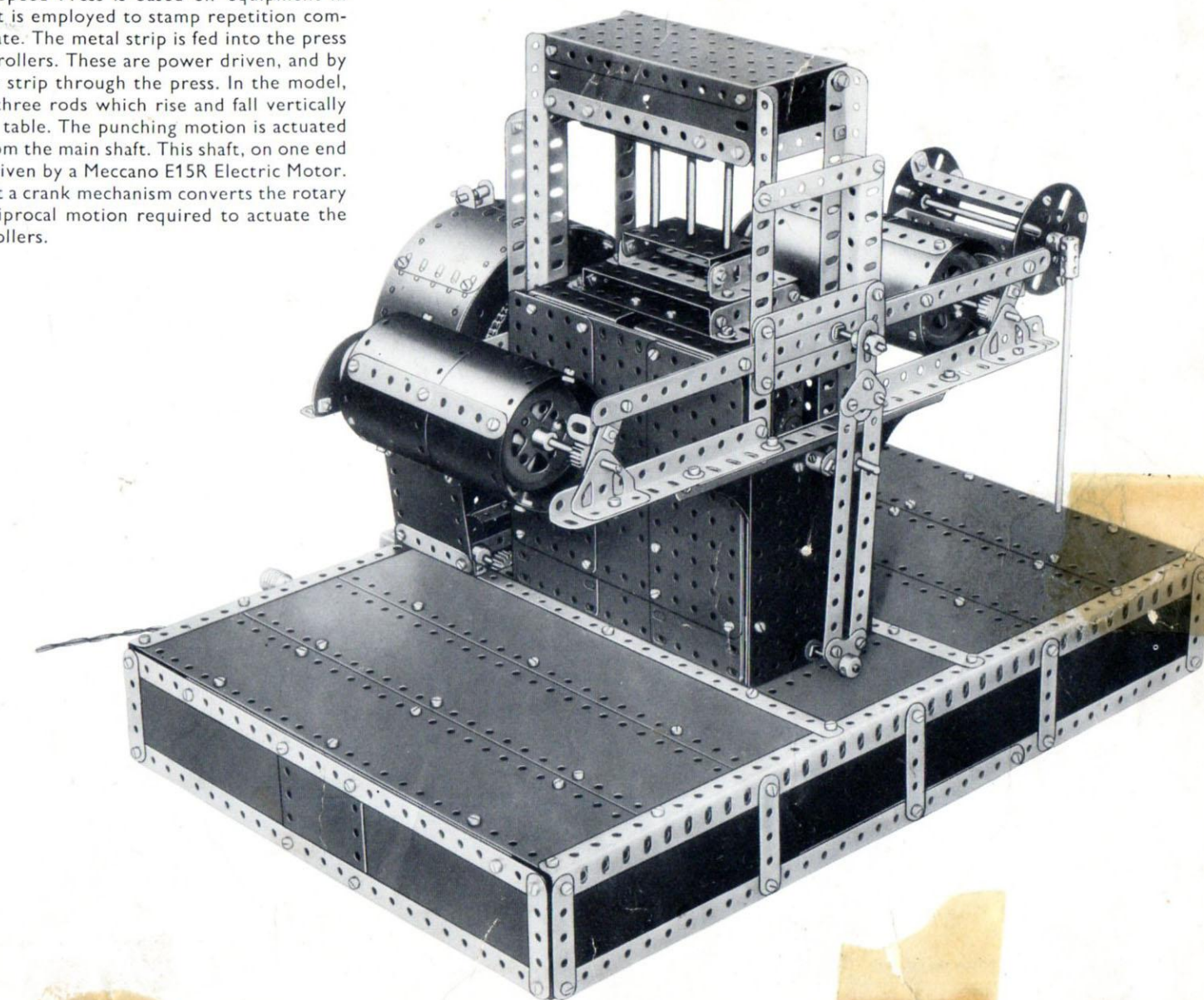


## MECCANO. Special Model Leaflet

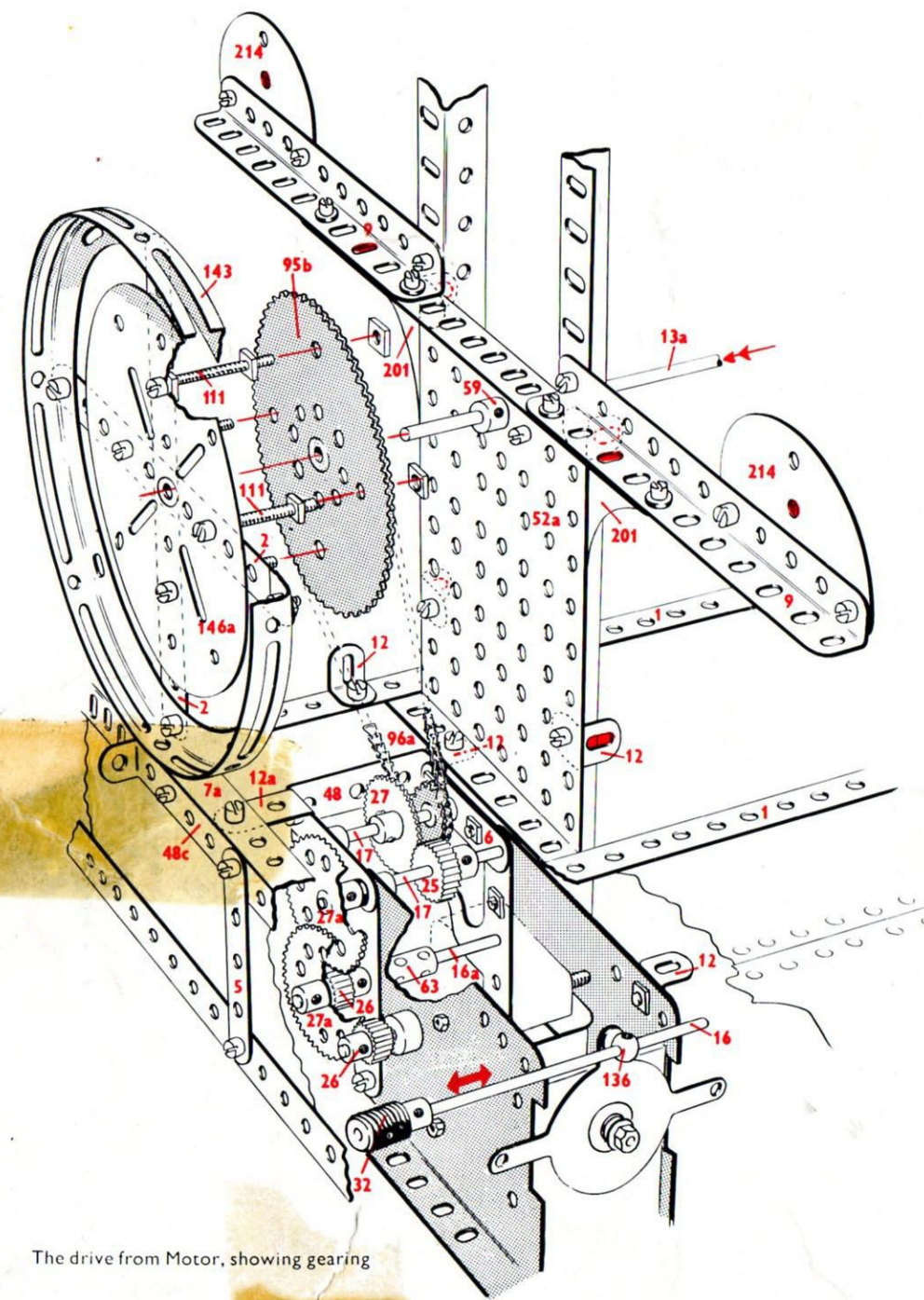
9.5

### 9.5 High-Speed Press

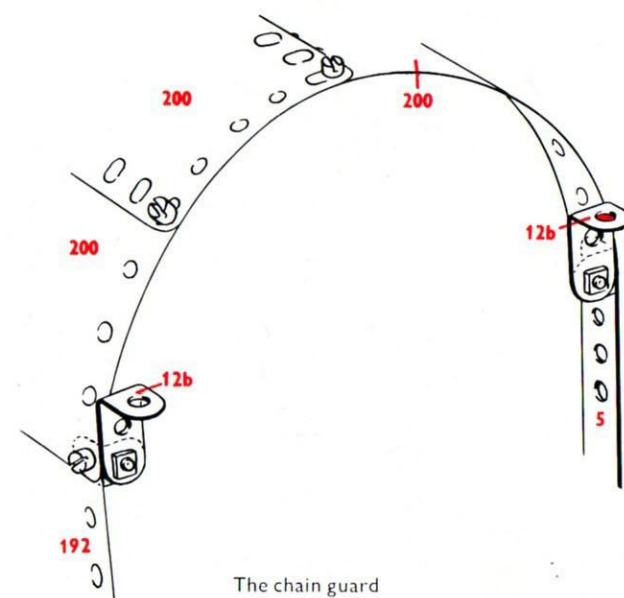
This Meccano model of a High-Speed Press is based on equipment in common use in industry where it is employed to stamp repetition components from strip steel or tinplate. The metal strip is fed into the press from a reel and passes over two rollers. These are power driven, and by turning intermittently, carry the strip through the press. In the model, the punching device consists of three rods which rise and fall vertically and mate with holes in the work table. The punching motion is actuated by means of an eccentric drive from the main shaft. This shaft, on one end of which is a heavy flywheel, is driven by a Meccano E15R Electric Motor. At the other end of the main shaft a crank mechanism converts the rotary motion of the shaft into the reciprocal motion required to actuate the intermittent motion of the feed rollers.







The drive from Motor, showing gearing



The chain guard

## How to use this leaflet

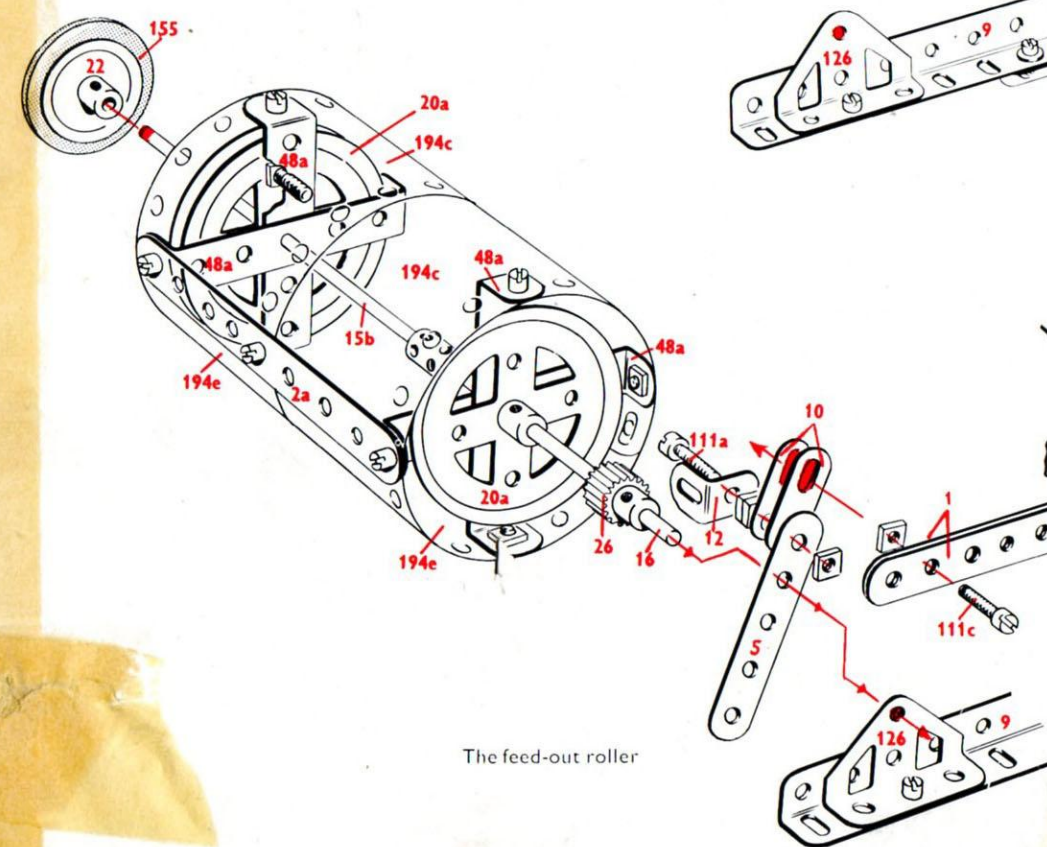
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Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever possible.

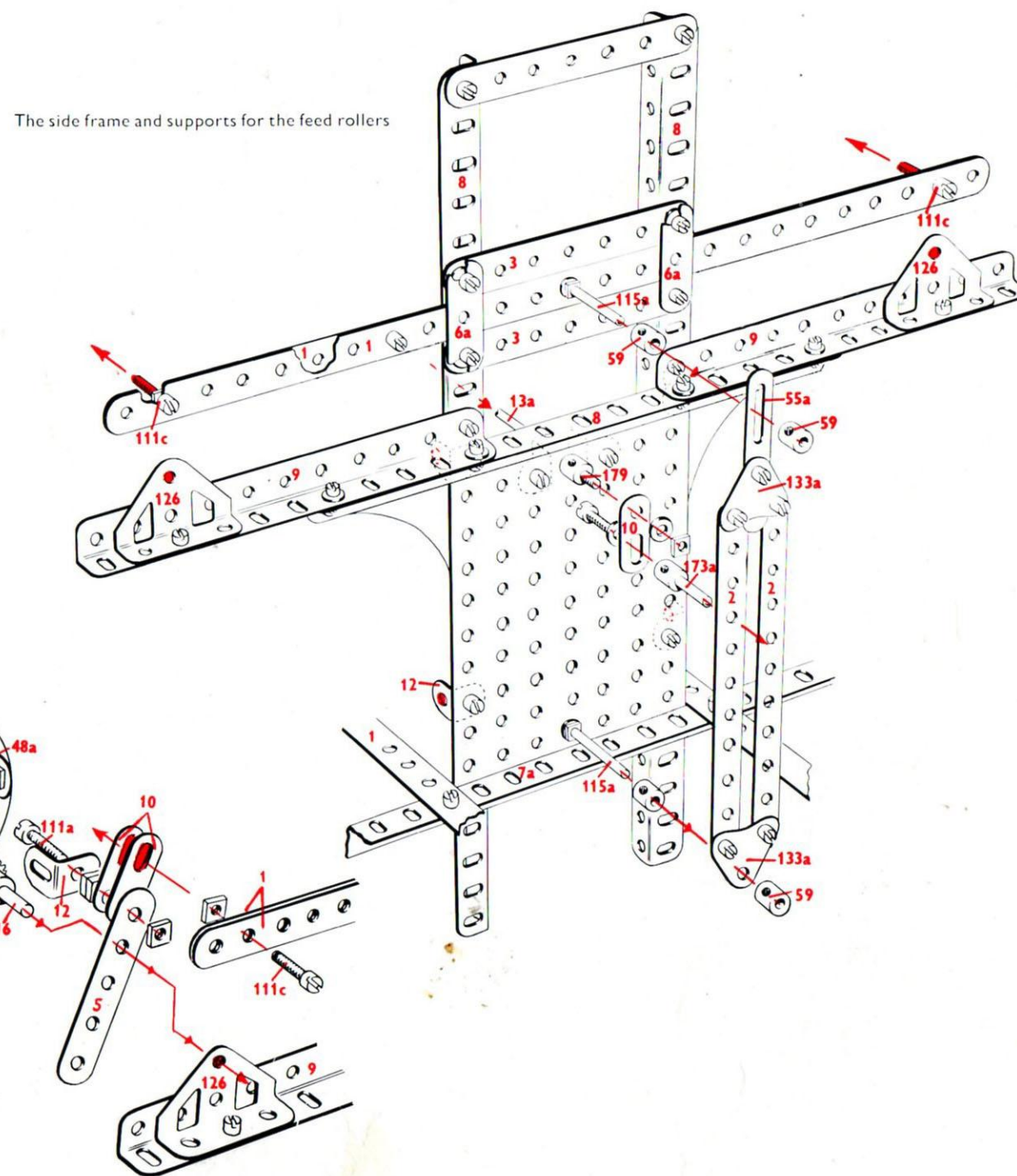
The particular parts used in the assembly of the model can in most cases be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that are hidden behind other parts of the structure.

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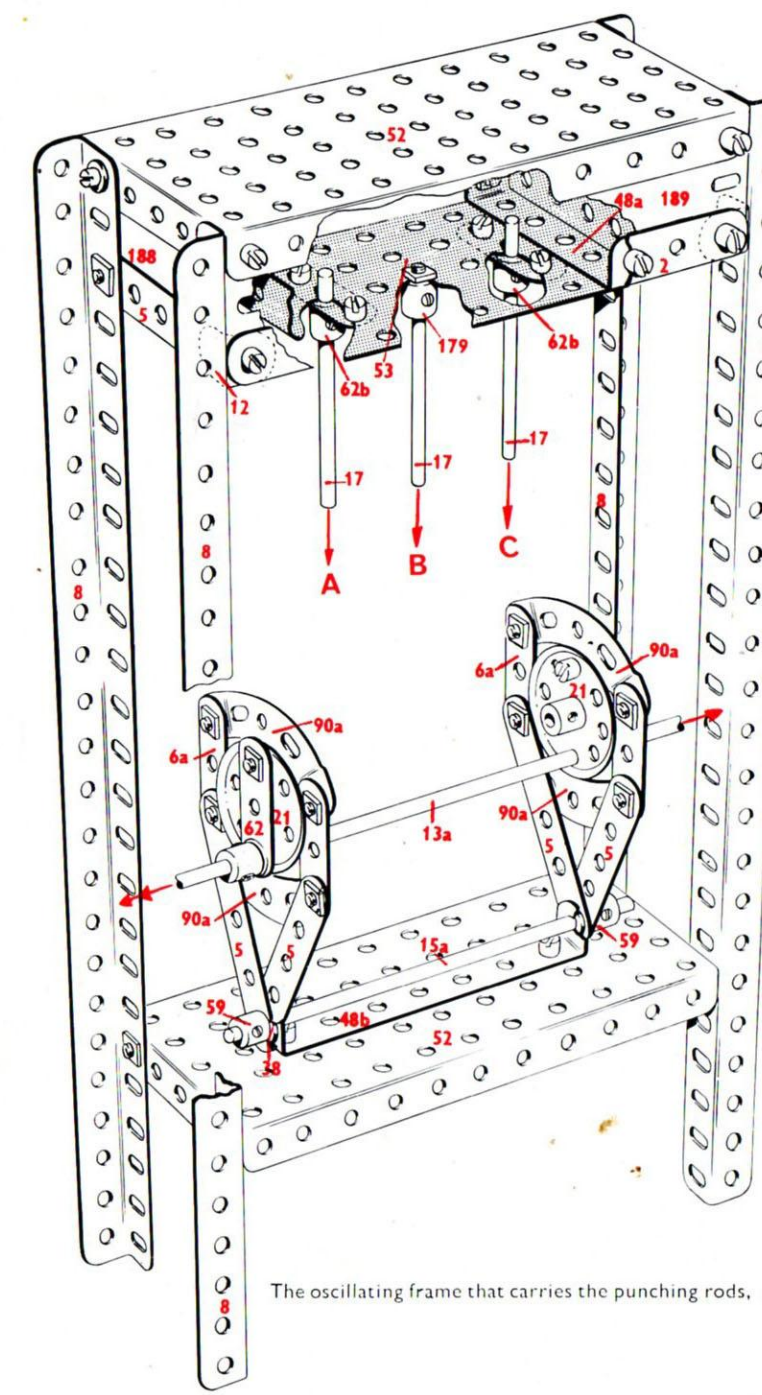
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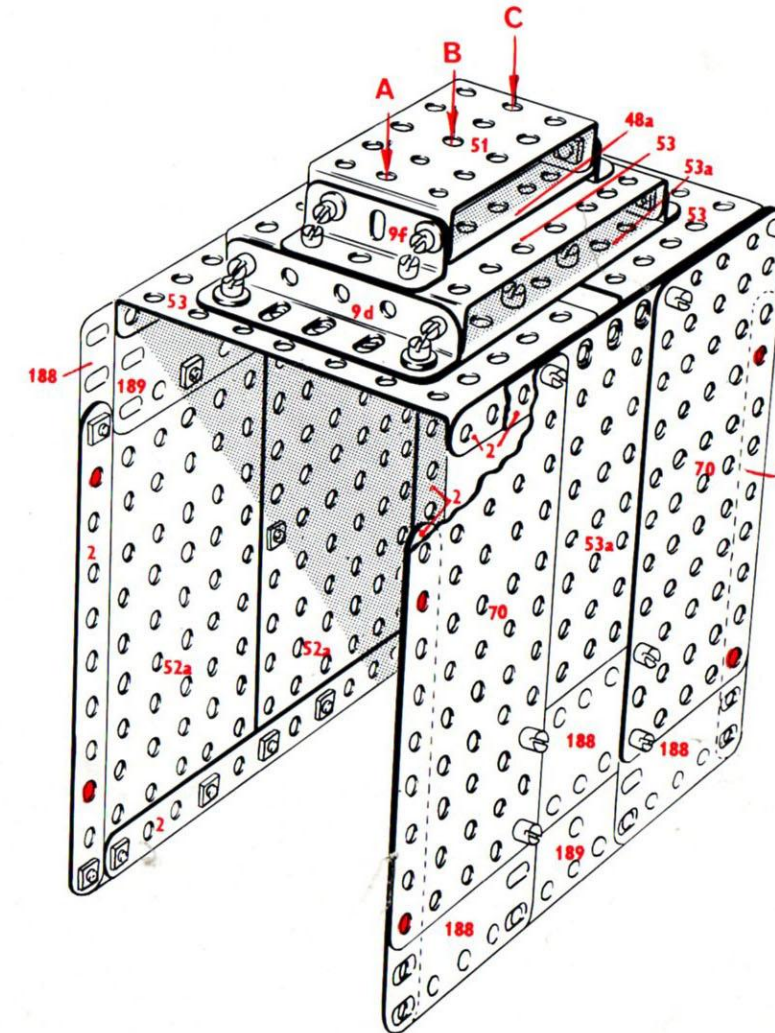
The feed-out roller



The side frame and supports for the feed rollers



The oscillating frame that carries the punching rods, showing the driving eccentrics



The Press bed and supporting frame