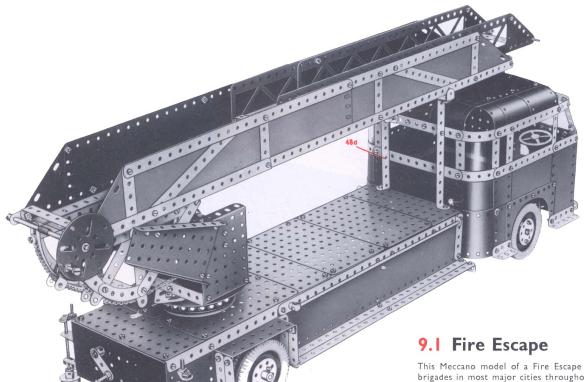
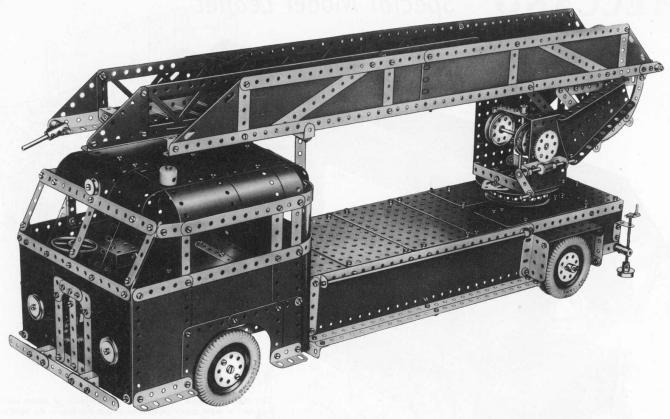
# MECCANO. Special Model Leaflet



This Meccano model of a Fire Escape is typical of those used by fire brigades in most major cities throughout the world. As buildings grow higher the need for equipment of this kind becomes imperative, and it is common to find fire escape vehicles equipped with escapes capable of extending to over 100 ft. Integral with the extending ladder is a hose and adjustable nozzle, from which firemen can direct jets of water into places which would otherwise be inaccessible.

In the Meccano model Fire Escape illustrated here, the ladder extends to a working height of over 3 ft. It is mounted on a ball-bearing turntable which can be swivelled by means of crank-operated worm drive through 360 degrees. The elevation of the escape is similarly crank-operated and the ladder is extended and retracted by means of a pulley system. Steadying jacks are provided at the rear of the chassis to give stability when the escape is in operation.

In the model the spacious cab, which in an actual vehicle houses both the driver and crew, is glazed at both front and sides.



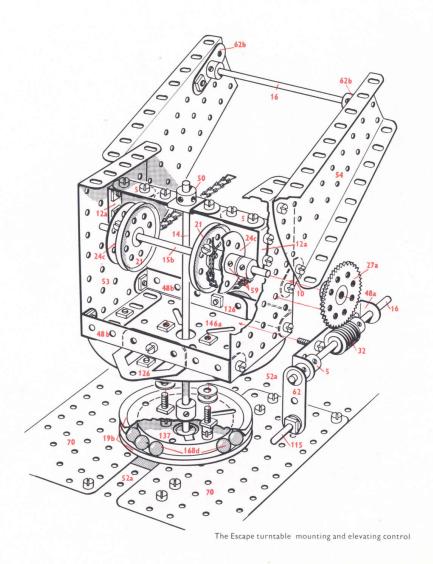
The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the 'knack' of reading the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

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.

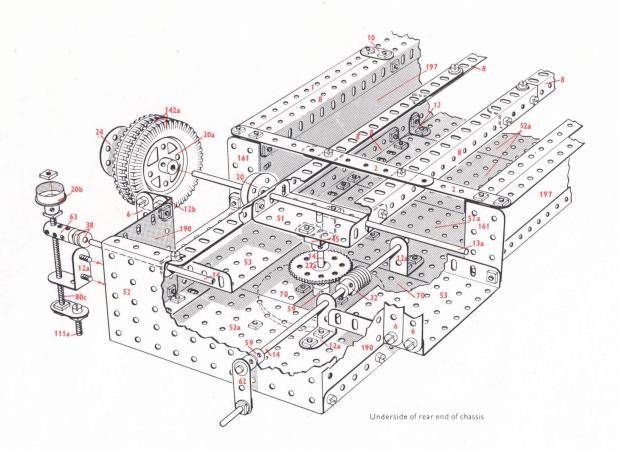
The particular parts used in the assembly of the model can in most cases

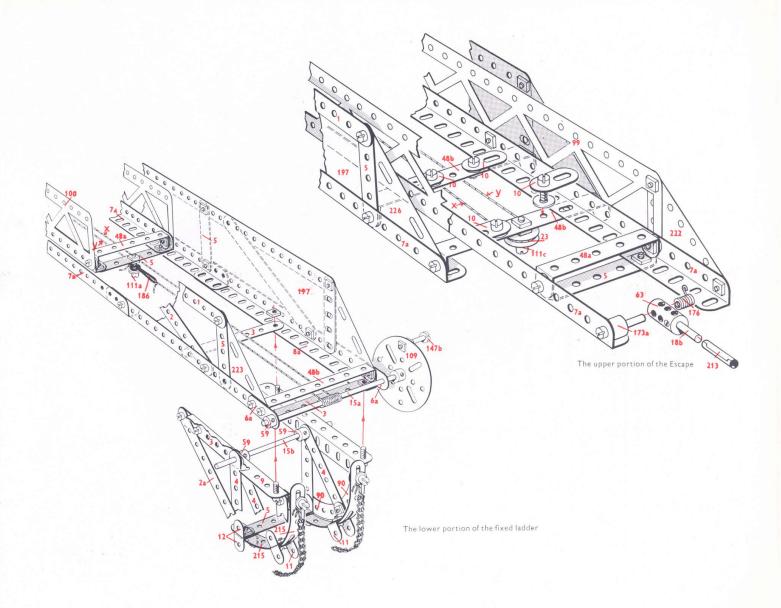
be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that are hidden behind other parts of the structure.

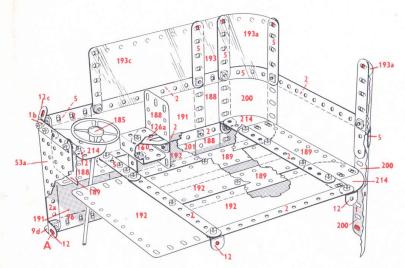
As a further help a list of the parts required to build the model is given in this Leaflet. In this list the catalogue numbers of the parts are printed in RED and the quantity of each part in BLACK.



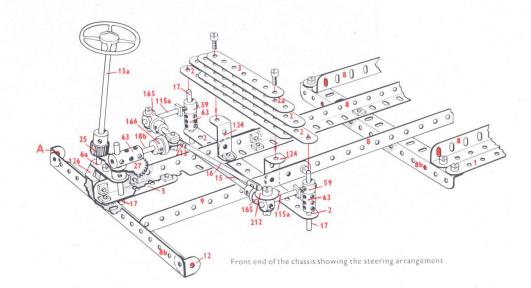
9.1	8 - 1	2 - 24a	2 - 124
7.1		2 - 24c	2 - 124
	2 - 1b 23 - 2 4 - 2a	1 - 25 1 - 27 2 - 27a	4 - 126
	4 - 2a	1 - 27	2 - 133a
	6 - 3	2 - 27a	2 - 136
	8 - 4	2 - 32 334- 37a	1 - 137
	8 - 4 26 - 5	334 - 37a	1 - 137 6 - 142a
4	4 - 6	295 – 37b	1 - 146a
7	5 - 6a	23 - 38	3 - 147b
	8 - 8	2 - 38d	1 - 160
	2 - 8a	1 - 40	2 - 161 1 - 164
	2 - 8b	3 - 45	1 - 164
	4 - 9	295 - 37b 23 - 38 2 - 38d 1 - 40 3 - 45 2 - 48a	2 - 165
	2 - 9d	6 - 48b	1 - 166
	2 - 9f	1 - 48c	21 - 168d
	10 - 10	2 4 48d	1 - 173a 1 - 176
	4 - 11	1 - 50	1 - 176
	4 - 11 24 - 12 6 - 12a 2 - 12b	1 - 51 2 - 52 4 - 52a	1 - 185
	6 - 12a	2 - 52	2 - 186
	2 - 12b	4 - 52a	6 - 188
	2 - 12b 4 - 12c 2 - 13	4 - 53	4 - 189
	4 - 11 24 - 12 6 - 12a 2 - 12b 4 - 12c 2 - 13 1 - 13a 3 - 14 1 - 15 2 - 15b 2 - 16 3 - 17 1 - 18a 1 - 18a 1 - 18b 2 - 19b	4 - 53 2 - 53a 2 - 54 10 - 59	8 - 190 4 - 191 5 - 192
	1 - 13a 3 - 14	2 - 54	4 - 191
	3 - 14	10 - 59	5 - 192
	1 - 15 2 - 15a 2 - 15b 2 - 16	2 - 62 2 - 62b	2 - 193 2 - 193a
	2 - 158	4 - 620	2 - 193a 2 - 193c
	2 - 16	6 - 63 2 - 70	2 - 193c 2 - 193e
	3 - 17	2 - 80c	6 - 197
	1 - 18a	4 - 90	6 - 197 6 - 200 4 - 201
	1 - 18b	1 - 94	4 - 201
	2 - 19b	2 - 99	4 - 201 2 - 212 3 - 214
	2 - 20	2 - 100	3 - 214
	6 - 20a	1 - 109	4 - 215
	2 - 20h	1 - 111	4 - 215 2 - 222
	6 - 20a 2 - 20b 2 - 21 2 - 22a 2 - 23 2 - 24	6 - 48b 1 - 48c 2 - 48d 1 - 50 1 - 51 2 - 52 4 - 53 2 - 53 2 - 53 2 - 54 10 - 59 2 - 62 6 - 63 2 - 70 2 - 80c 4 - 90 1 - 90 1 - 109 1 - 111 5 - 111 5 - 111 1 - 111 1 - 51 1 - 50 1 - 60 1 - 60 1 - 70 1 - 100 1 - 111 5 - 111 5 - 111 5 - 111 1 - 111	2 - 223
	2 - 22a	11 - 111c	2 - 226
	2 - 23	1 - 115	5 - 235 2 - 235a
	2 - 21 2 - 22a 2 - 23 2 - 24	1 - 115 2 115a	5 - 235 2 - 235a







Interior construction of the cab



## 9.2 Wharf Crane

Dockland provides many fascinating subjects for the Meccano builder and chief among these are the numerous types of crane, large and small, to be seen in any up-to-date and well-equipped port. One of these cranes forms the prototype of the attractive model illustrated with detail constructional plans in this Leaflet. This is one of several types of Wharf Crane, a feature of which is its long slender jib pivoted to a swivelling superstructure mounted on a tall tower. The radius of operation of this particular type of crane is relatively small but, on the other hand, bulky and heavy loads can be raised and lowered through a considerable vertical distance. This is particularly necessary in loading and unloading large ocean-going vessels at quaysides, where it is necessary to be able to clear the hull and superstructure of the ship, which itself may be rising and falling through as much as 20 ft., according to the state of the tide. Such Wharf Cranes are usually of the travelling type and run on rails laid along the quay or wharf side.

In this Meccano model Wharf Crane the power for operating the load-hoisting mechanism is provided by an Meccano E15R Electric Motor housed with the load-hoisting and jib-elevating mechanism in the operator's cab. The cabin itself is mounted on ball bearings and slewing is carried out manually by a simple system of gearing from a handwheel located at the top of the tower structure.

#### How to use this leaflet

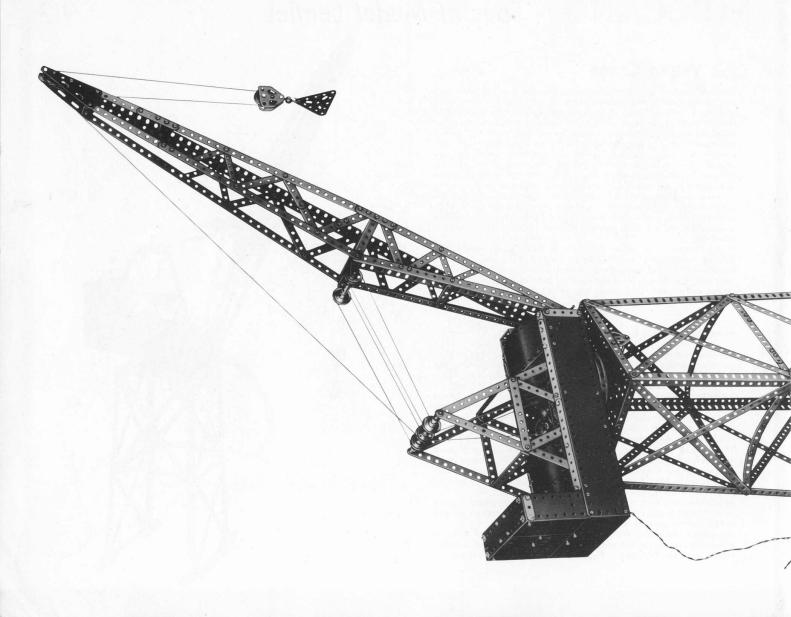
The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the 'knack' of reading the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

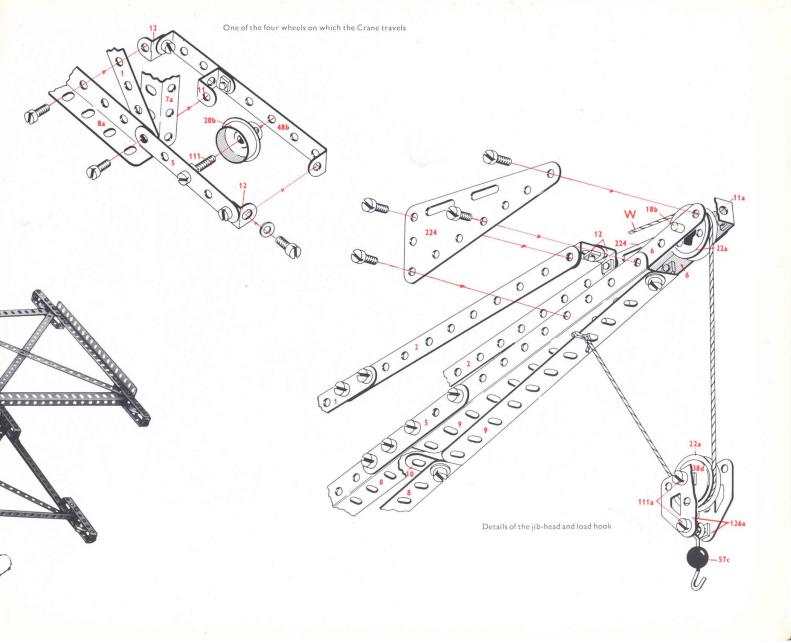
Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever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

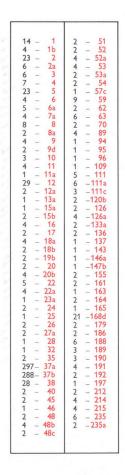
The particular parts used in the assembly of the model can in most cases be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that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

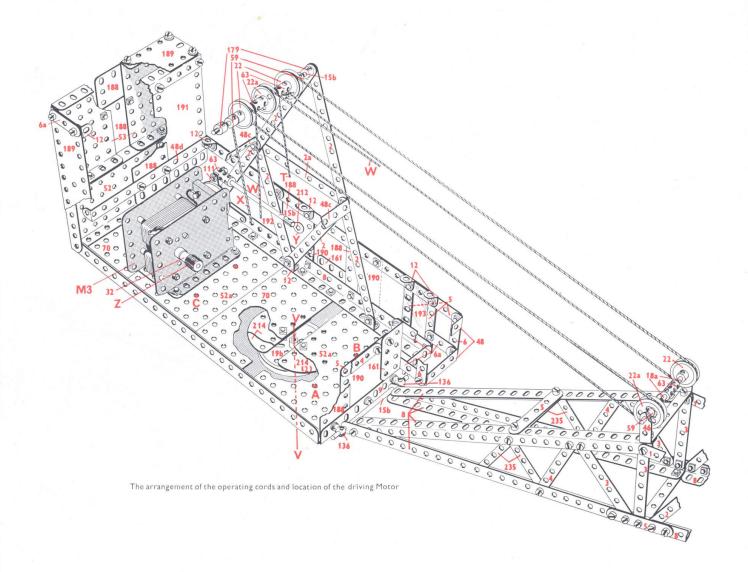


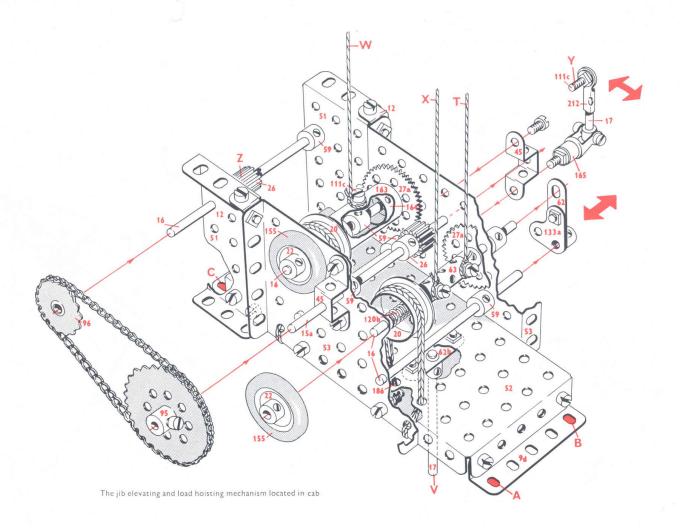


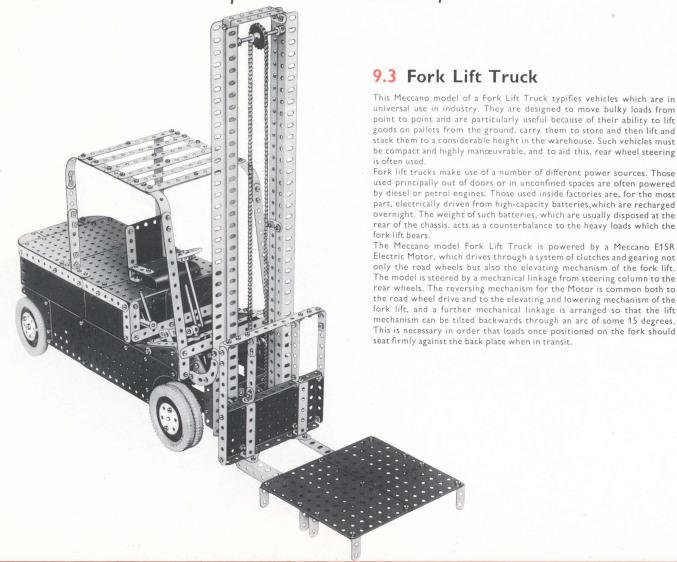




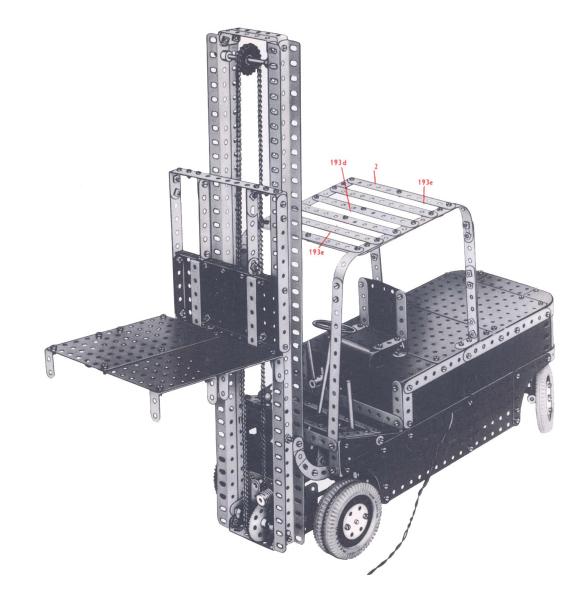
The top of the tower showing the ball bearing on which the superstructure swivels  $\,$ 

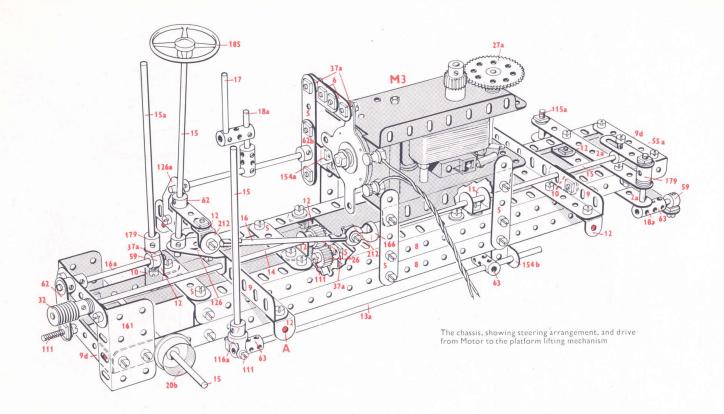






```
2
      16
             2 - 53
17 –
5 –
       2
             2 - 53a
       2a
3
4
             1 - 55a
2 -
             11 - 59
             2 - 62
31 -
             1 - 62b
             6 - 63
       6a
             2 - 70
       7a
             2 - 77
       8
             1 - 79a
4
       9
             4 - 90
2 - 9d
2 - 9f
15 - 10
3 - 11
             4 - 90a
             1 - 94
             2 - 96
             6 - 111
29 - 12
             6 -111c
4 - 12a
             2 - 115
2
   - 12b
             1 - 115a
1 - 13a
3 - 14
2 - 15
             1 - 116a
             1 - 126
             4 - 126a
4 - 15a
3 - 16
             1 - 128
             2 - 133a
3
   - 16a
             2 - 136
   - 17
              6 - 142a
3 - 18a
             2 -147b
2 - 18b
             1 - 154a
6 - 20a
             2 - 161
2 - 20b
              2 - 165
1 - 23
             1 - 166
1
   - 23a
             2 - 179
             1 - 185
2 - 188
1 - 189
2 - 190
3 - 191
2 - 192
2
   - 24
   - 24a
2
   - 24c
- 25
   - 26
- 27
5
2 - 27a
             1 -193d
1 - 28
2 - 32
              2 - 193e
             1 - 199
286- 37a
             2 - 200
4 - 201
262- 37b
             2 - 212
2 - 214
6 - 215
26 - 38
2 - 38d
1 - 45
1 - 46
              2 - 222
2 - 224
2 - 225
   - 48a
- 52
 6
 2
 2 - 52a
              3 - 235
```





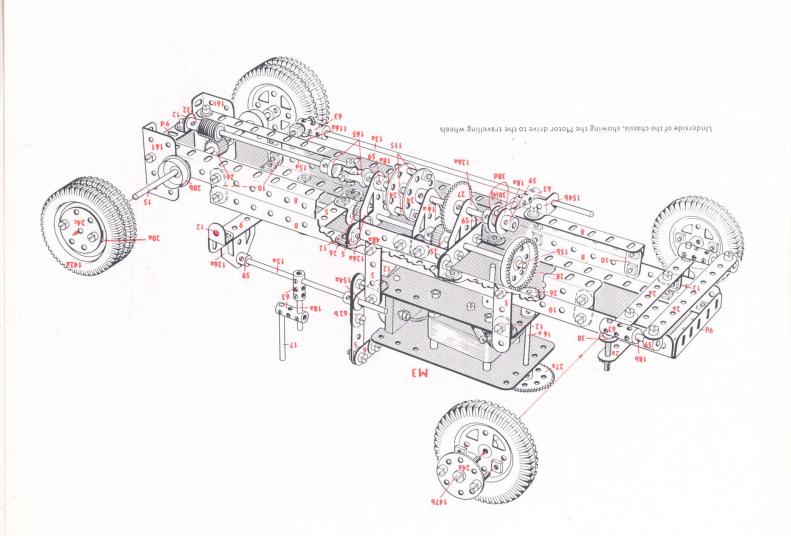
The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the knack of 'reading' the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

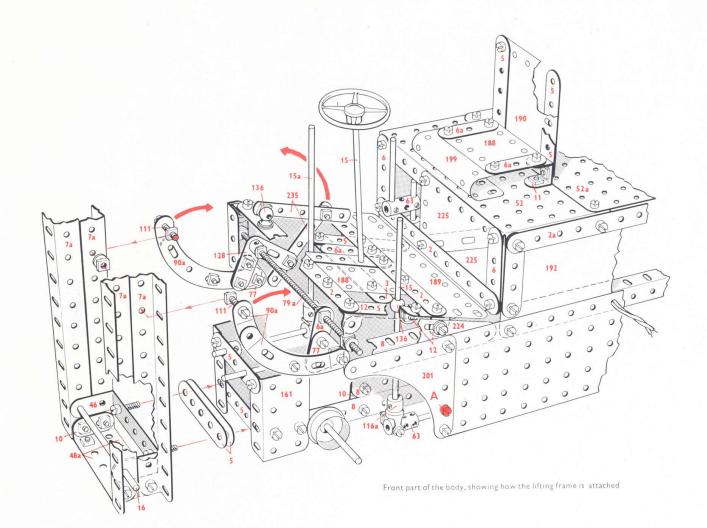
Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever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

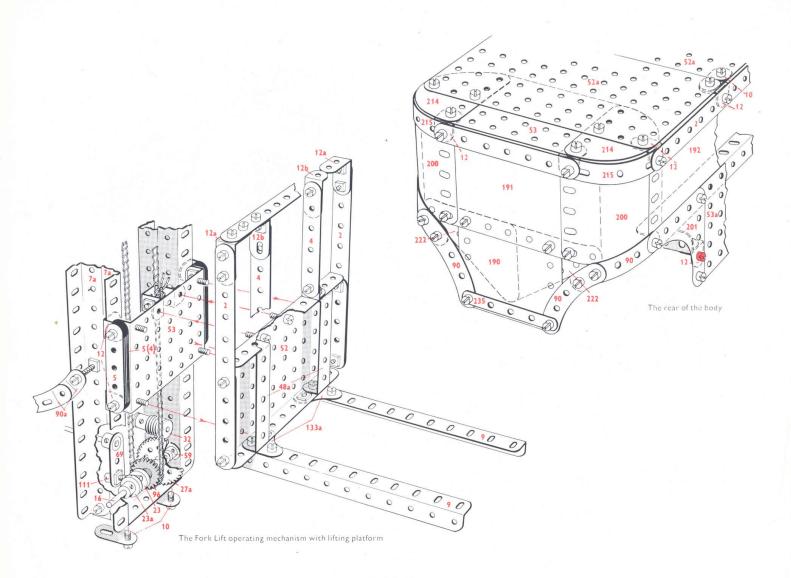
The particular parts used in the assembly of the model can in most cases

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.

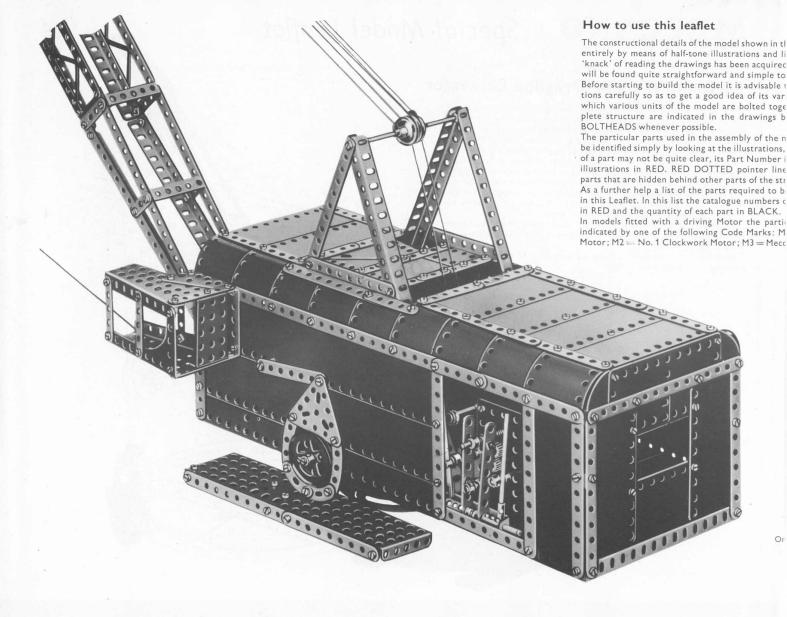
As a further help a list of the parts required to build the model is given in this Leaflet. In this list the catalogue numbers of the parts are printed in RED and the quantity of each part in BLACK.

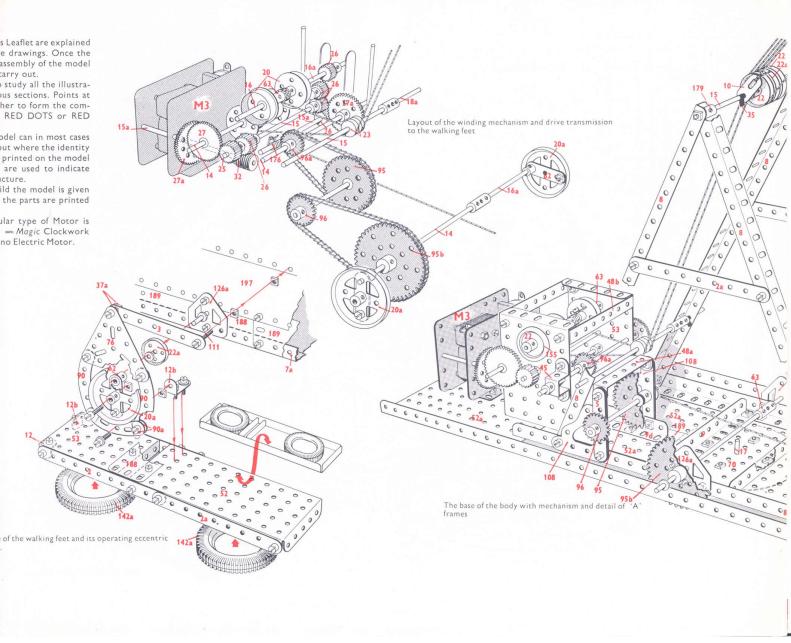


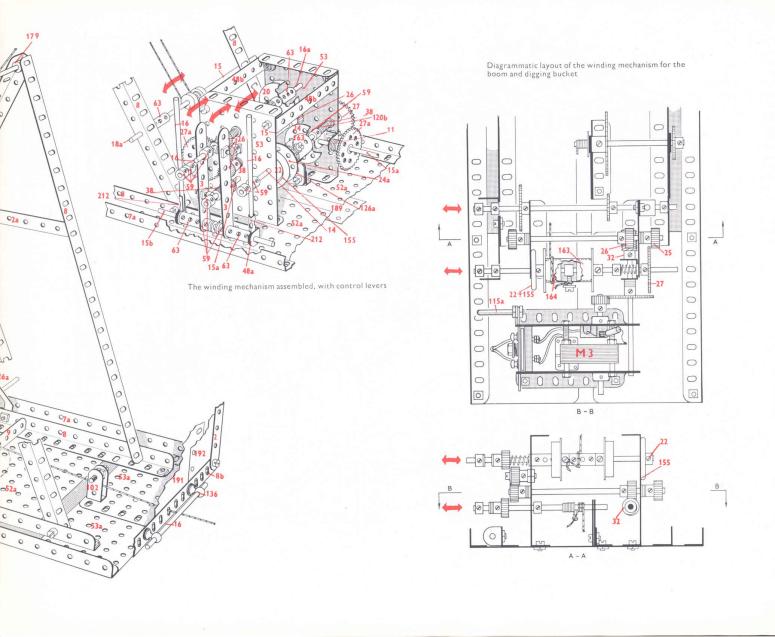












9.4 00 000 0 0890 0100 WO 01 0 0 0 The jib-head and pulley assembly 0 0 224 225 0 0 161 0 225 0 0 (1) 0

00

3 - 111a 32 10 - 111c 16 - 35 1 - 115a 24 -329 - 37a 2 - 120b 2a 299- 37b 6 - 126a 31 -38 2 - 133a 13 -- 38d 2 - 136 2 4 - 142a 45 1 - 143 1 - 146a 9 -147b 486 2 - 155 2 - 161 1 - 163 90 2 4 10 52a 165 4 -53 2 - 176 11 2 53a 2 - 179 - 11a 12 - 12 5 - 188 12 - 59 2 - 62 2 - 62b 6 2 - 12b 189 12 - 190 14 3 -3 - 15 191 6 2 - 15a 63 12 - 192 1 - 156 2 70 1 1933 76 2 - 193c 2 - 193e 16 1 - 80c - 16a 2 2 - 194 17 - 18a 4 90 3 - 194d 4 -90a 6 - 197 20 94 20a 6 -200 95 1 -201 20ь 5 95b 212 4 -214 22a 2 -2 -2 -2 -96a 221 2 - 99 2 - 100 224 23a 225 1 - 102 2 - 108 2 - 109 - 102 - 108 24a 226 235 25 5 -26 27 2 - 111 1 -

Bucket and operating cords

of the

s Leaf

e dra

assem

arry

stud

us se

her to

RED

odel c

ut wh

print

are

cture

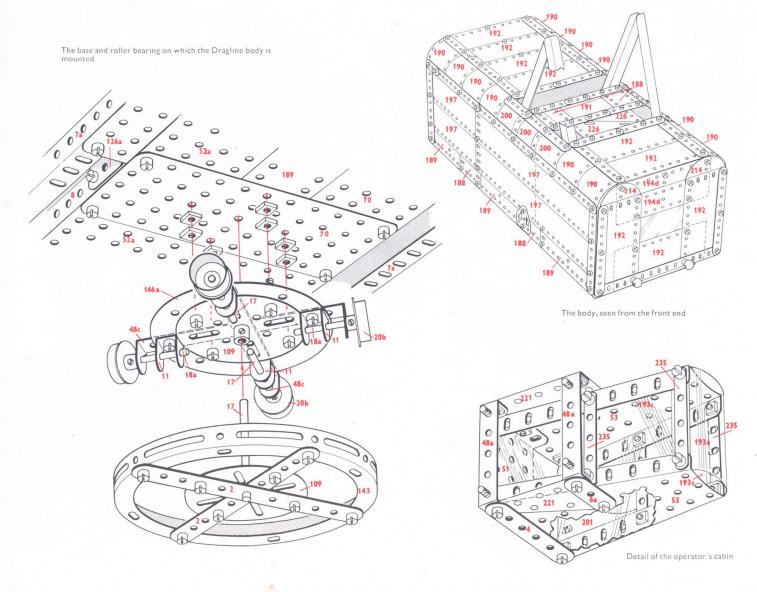
ild the

the p

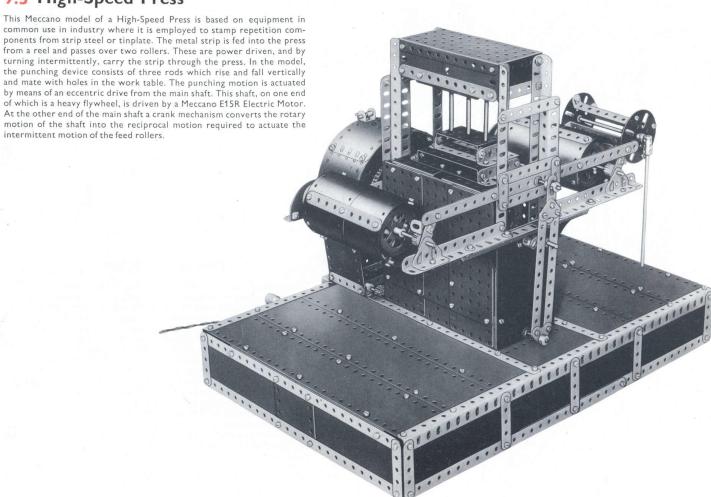
ılar t

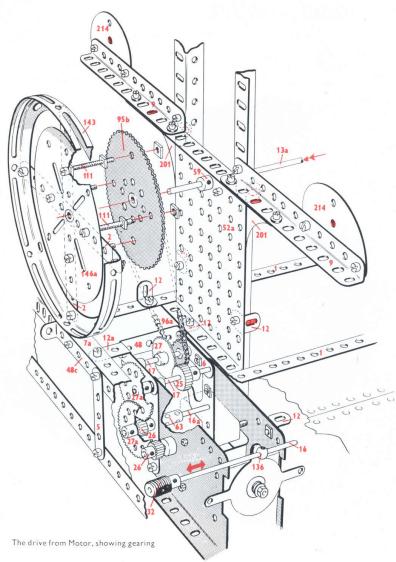
= M

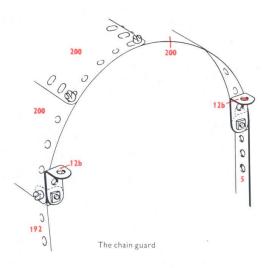
no Ele



# 9.5 High-Speed Press





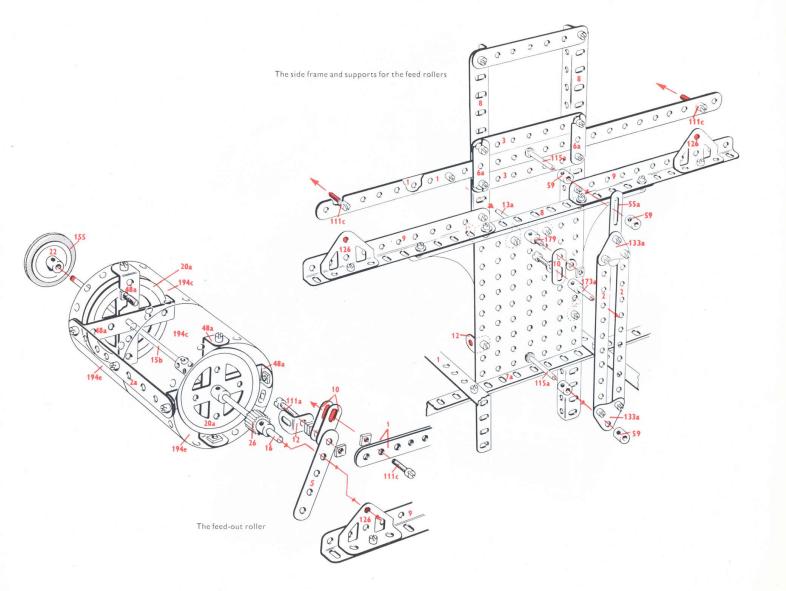


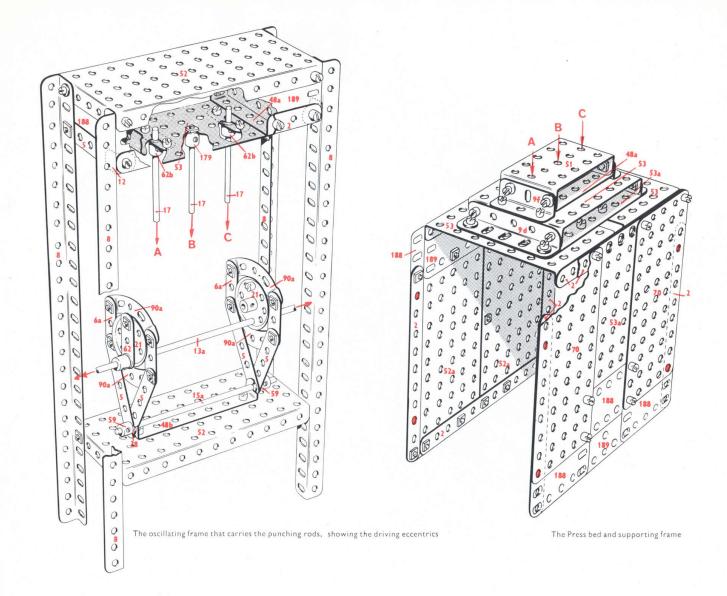
The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the 'knack' of reading the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

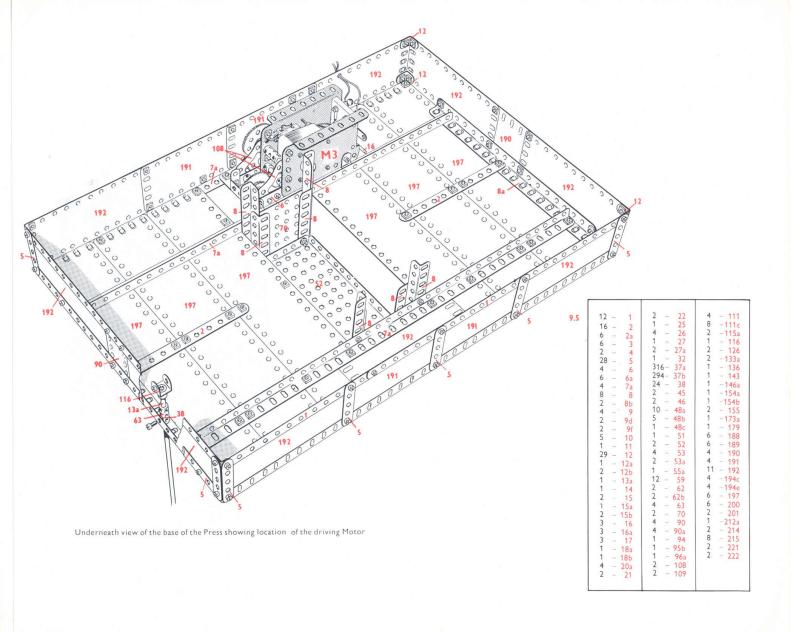
Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever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

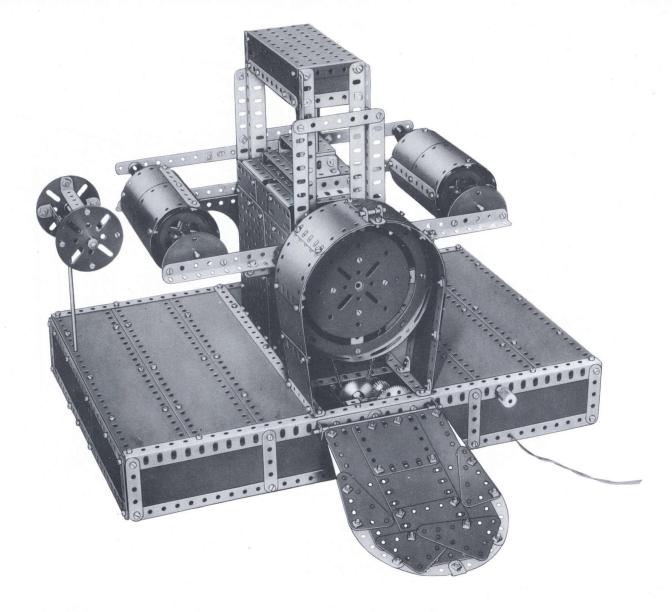
The particular parts used in the assembly of the model can in most cases be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that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

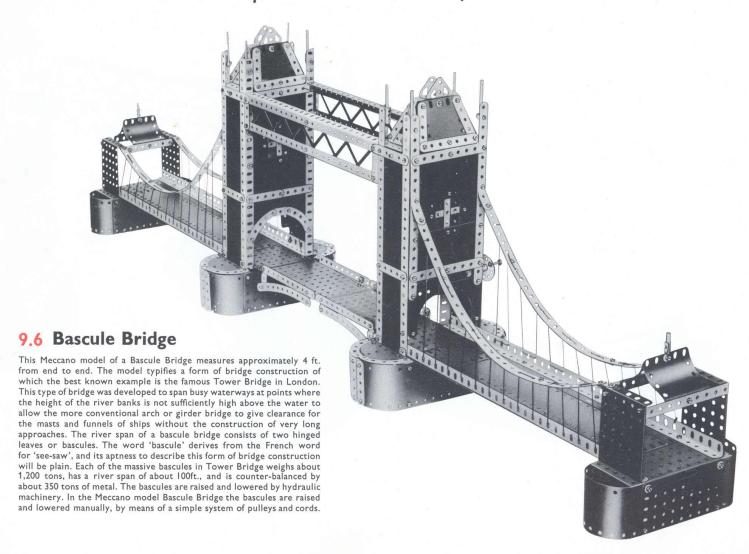
As a further help a list of the parts required to build the model is given in this Leaflet. In this list the catalogue numbers of the parts are printed in RED and the quantity of each part in BLACK.

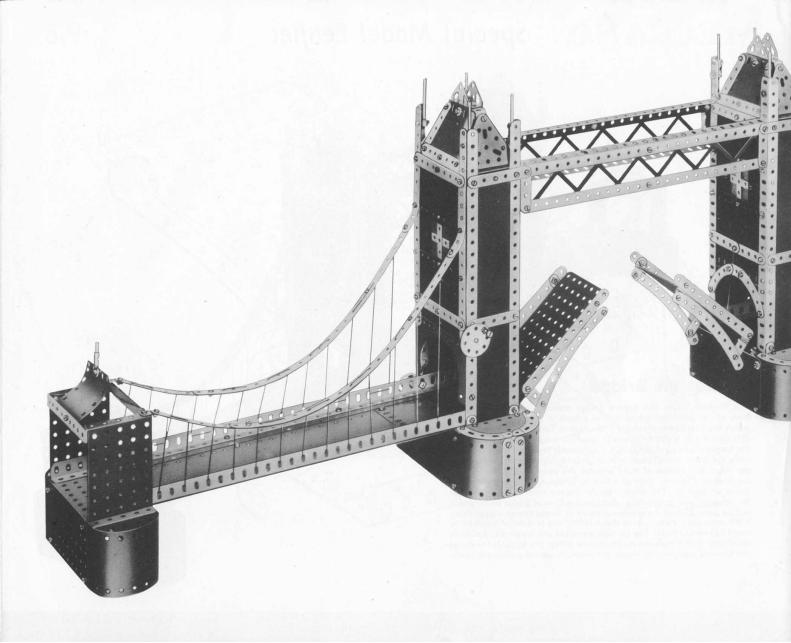


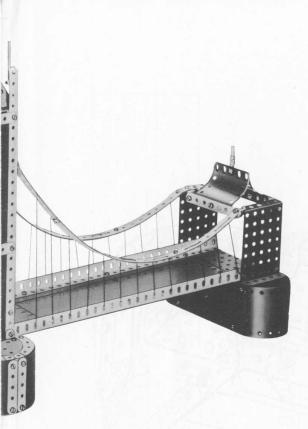


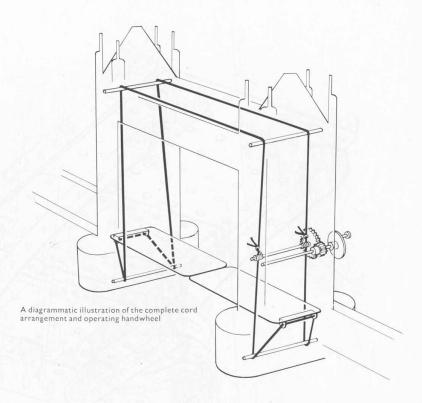












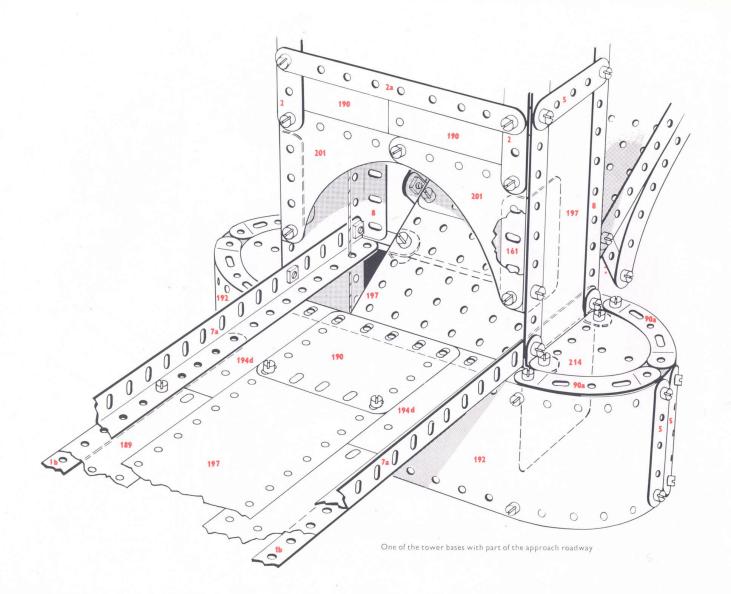
The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the 'knack' of reading the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

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.

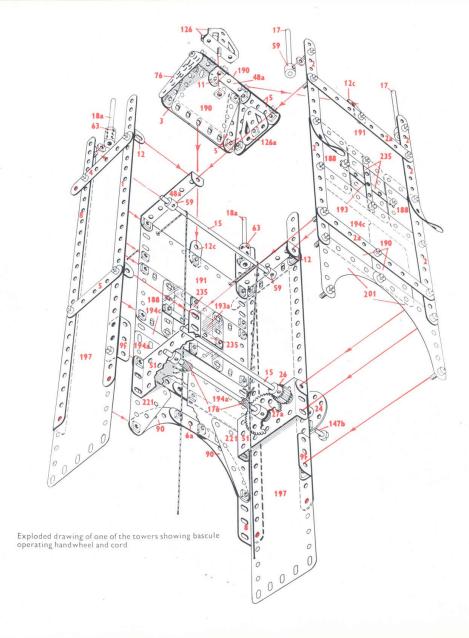
The particular parts used in the assembly of the model can in most cases

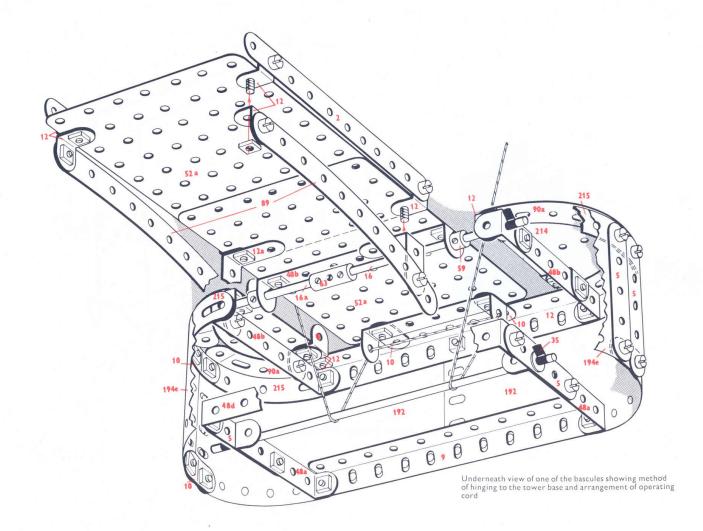
be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that are hidden behind other parts of the structure.

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.



```
2 - 52
4 - 52d
            2 - 53a
                   59
                   63
70
                   76
                   89
                   90
                  90a
                   99
      9f
      10
12 -
      11
               - 126
30 - 12
               - 126a
4 - 12a
            1 - 147b
   - 12b
            1 - 154a
   - 12c
            1 -154b
      14
               - 161
               - 165
   - 15a
               - 176
               - 188
   - 15b
               - 189
      16
               - 190
   - 16a
               - 191
                - 192
                - 193
   - 18b
               - 193a
                - 194
                - 194a
               - 194c
      35
331 - 37a
               -194d
321 - 37b
               - 194e
25 - 38
                - 197
   - 40
                  200
                  201
               - 212
   - 48a
               - 214
               - 215
- 221
   - 48b
  - 48c
            6 - 235
2 - 235a
  - 48d
```





# MECCANO. Special Model Leaflet

### 9.7 Robot Man

This Meccano model of a Robot or Mechanical Man stands over 3 ft. high. It is powered by, a Meccano E15R Electric Motor, which by an ingenious series of linkages, causes the Robot to walk slowly along, swinging his arms and turning his head from side to side.

From a mechanical point of view the model is of particular interest in that it provides an excellent illustration of how a single power source can be harnessed by means of gear and chain drives and the use of cranks and levers, to operate no less than five separate but synchronized reciprocal motions.

#### How to use this leaflet

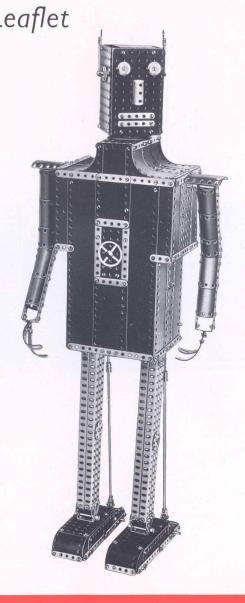
The constructional details of the model shown in this Leaflet are explained entirely by means of half-tone illustrations and line drawings. Once the knack of 'reading' the drawings has been acquired assembly of the model will be found quite straightforward and simple to carry out.

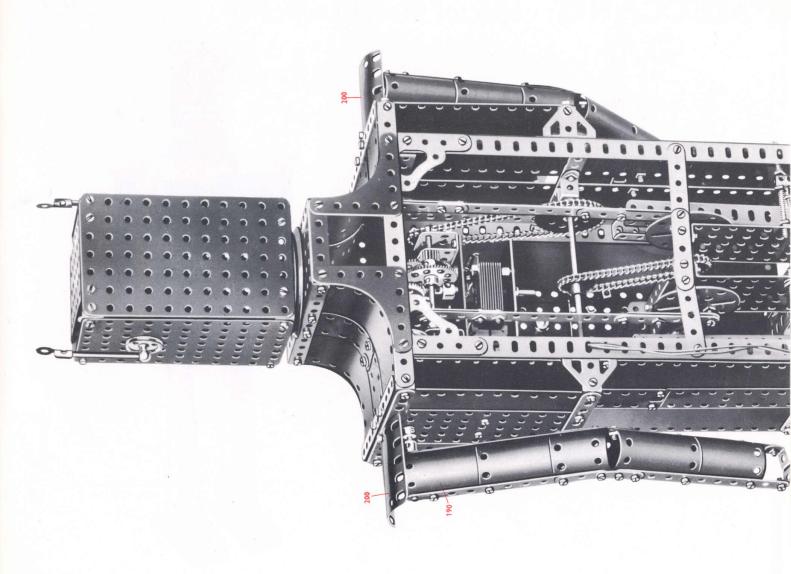
Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever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

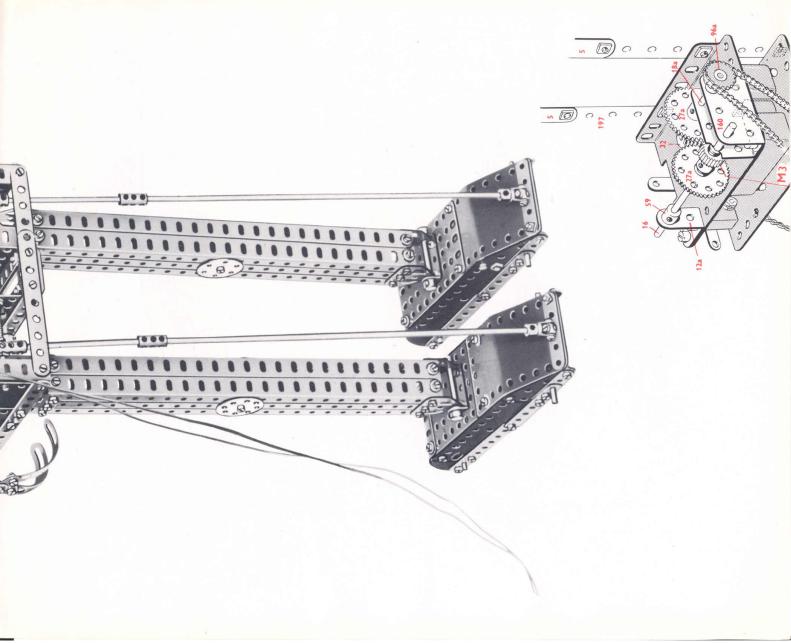
The particular parts used in the assembly of the model can in most cases be identified simply by looking at the illustrations, but where the identity of a part may not be quite clear, its Part Number is printed on the model illustrations in RED. RED DOTTED pointer lines are used to indicate parts that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

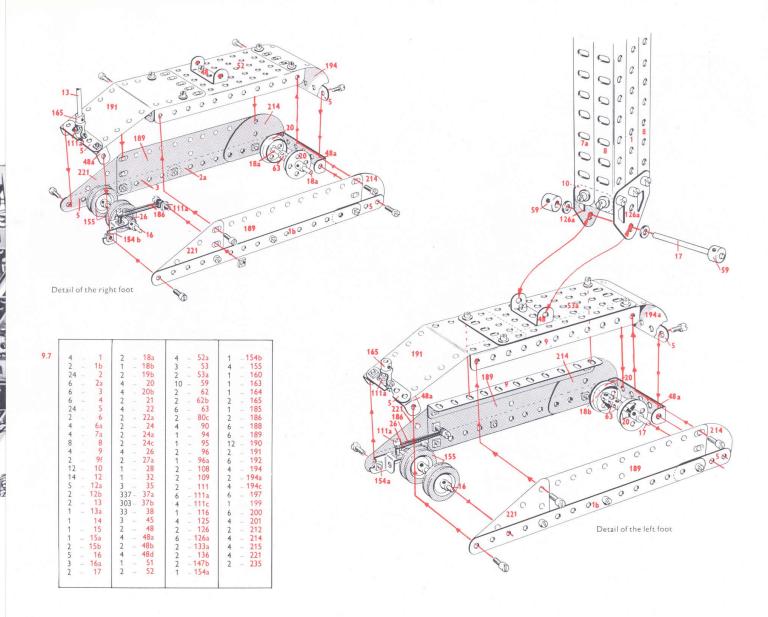
As a further help a list of the parts required to build the model is given in this Leaflet. In this list the catalogue numbers of the parts are printed in RED and the quantity of each part in BLACK.

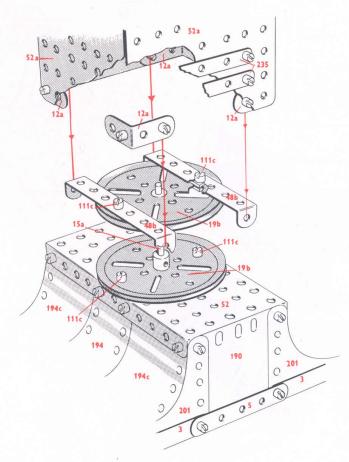
In models fitted with a driving Motor the particular type of Motor is indicated by one of the following Code Marks: M1 = Magic Clockwork Motor; M2 = No. 1 Clockwork Motor; M3 = Meccano Electric Motor.



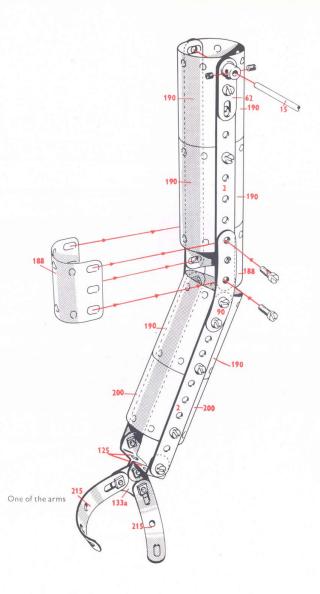


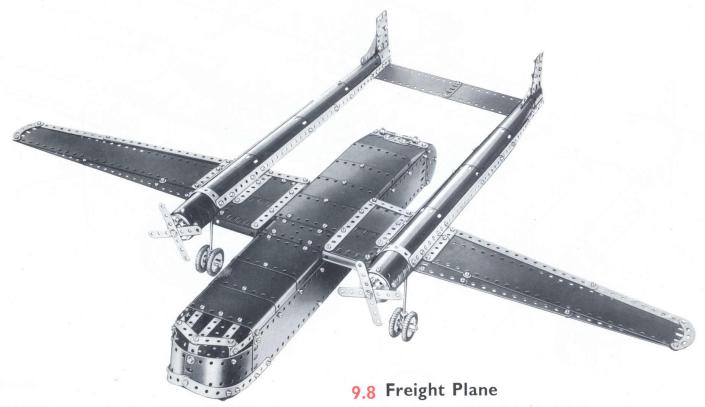






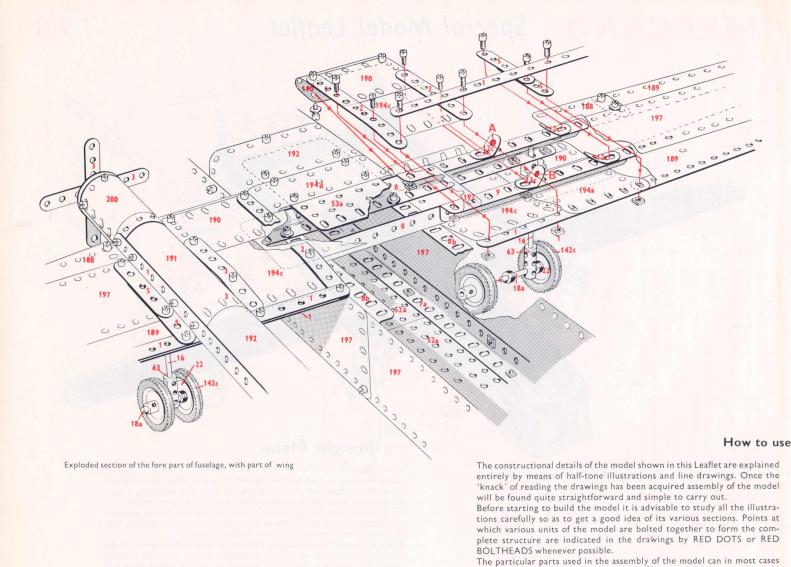
Shoulders of the Robot showing bearing on which the head swivels

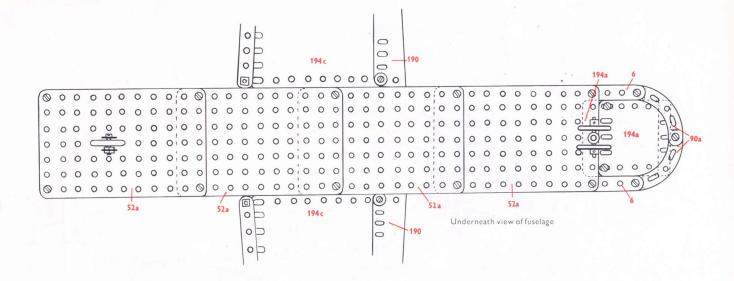


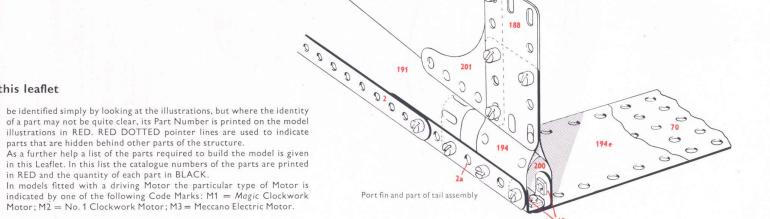


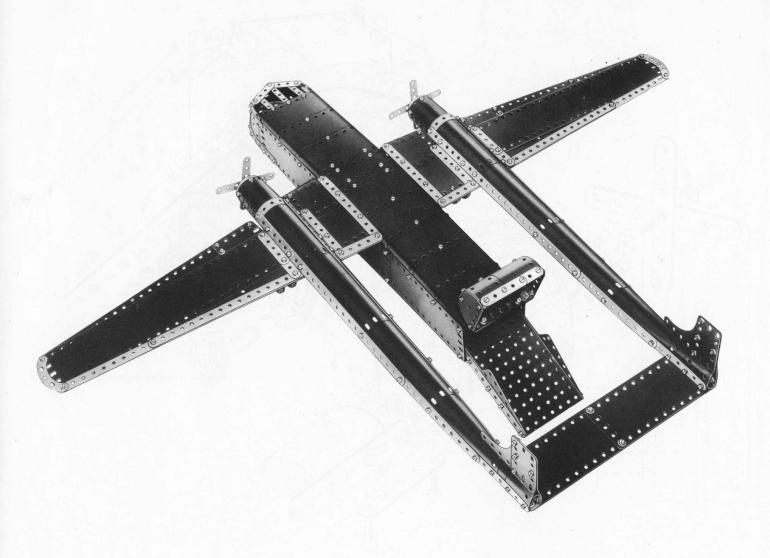
This Meccano model is based on a type of aircraft of somewhat unusual design. Powered by two engines housed in long nacelles, which extend backwards to support the tail structure, the aircraft is essentially a box-like structure designed to accommodate bulky and weighty freight. This type of aircraft was first developed for military use and the hinged door and extending ramp at the rear of the fuselage allow such items as field guns and military vehicles to be easily hoisted aboard.

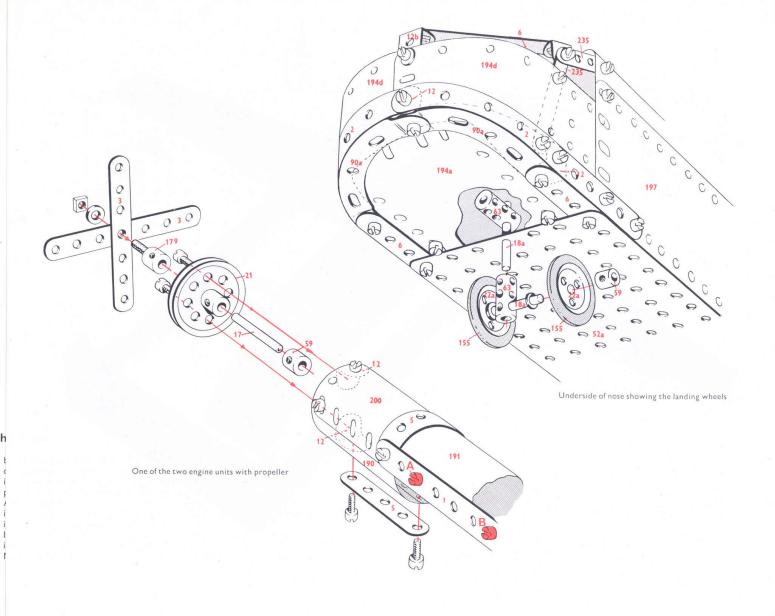
In recent years airlines throughout the world have become aware of the commercial application of aircraft of this type and to meet the growing demand for airfreight services, a number of aircraft manufacturers in Britain have developed aircraft for the specific purpose of carrying freight.

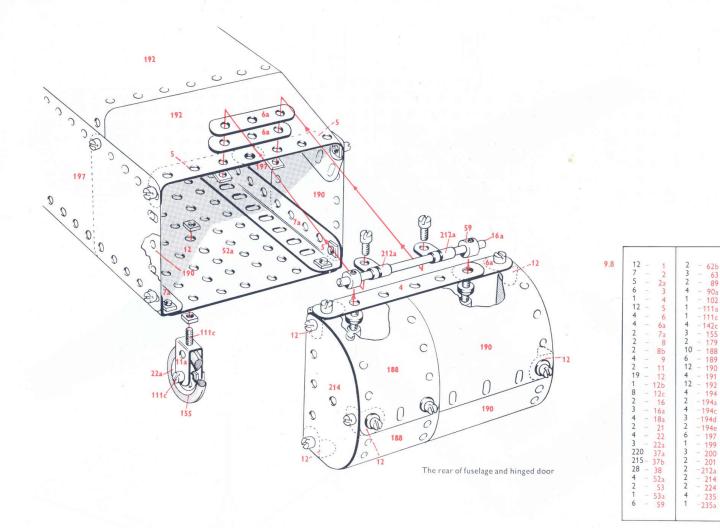








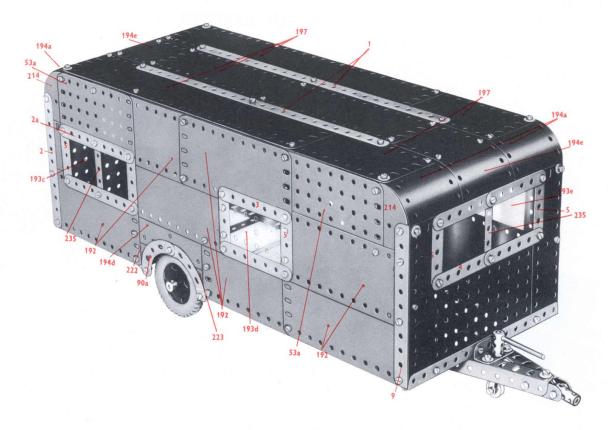






This Meccano model of a Sports Car and Caravan is, driven by a Meccano No. 1 Clockwork Motor. The Motor is mounted at the rear of the car and drives through a contrate wheel and pinion reduction gearing on to the rear wheels of the car. Steering is effected through a system of gears and levers controlled from the steering wheel. There is also a reversing control, which is located conveniently in the dash board, and a glazed wind-screen.

The Caravan, which incorporates glazed windows and an opening door, is attached to the car by means of a towing bar and swivelling linkage gear. A small third pilot wheel on a swivel mounting is built into the chassis of the caravan so that when detached from the towing vehicle, the caravan can be manœuvred by hand.



#### 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.

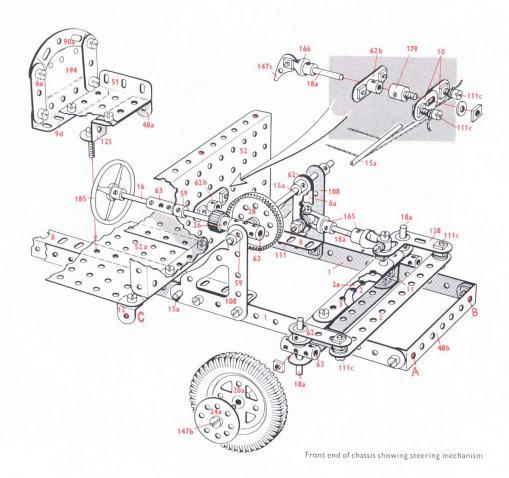
Before starting to build the model it is advisable to study all the illustrations carefully so as to get a good idea of its various sections. Points at which various units of the model are bolted together to form the complete structure are indicated in the drawings by RED DOTS or RED BOLTHEADS whenever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





2

2 2 3

2

9 -

1 -

337 - 37a

314- 37b

35 - 38

2 - 48a 2 - 48b 2 - 48c 2 - 48d 2 - 51 2 - 52

4 - 52a

12 - 59

2 - 62

2 - 62b

6 -

3

51 52

53a

8 - 188

8 - 189

10 - 190

20

20a 23 24 24a 26

27a 28 35

16

2a 3

6a 7a 8

8a 8b 9

90

9f

11

13a 14

- 15

2 - 15a 2 - 15b 3 - 17

4 - 18a

23 -

6

5

27

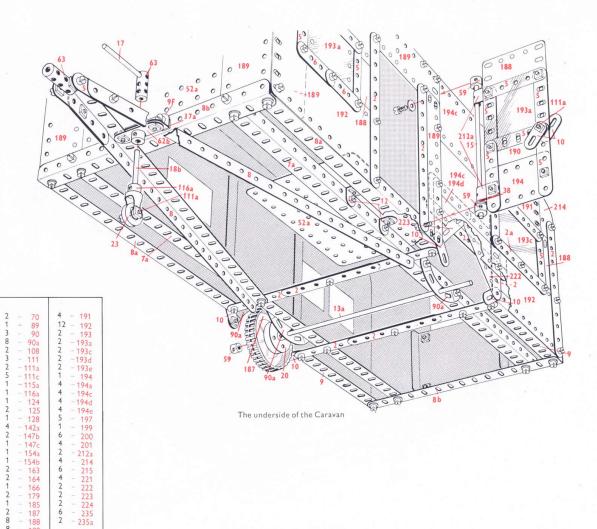
2

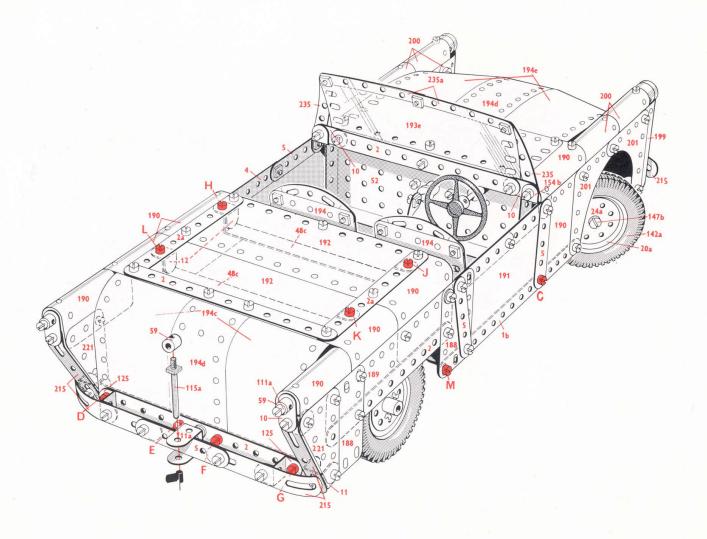
2

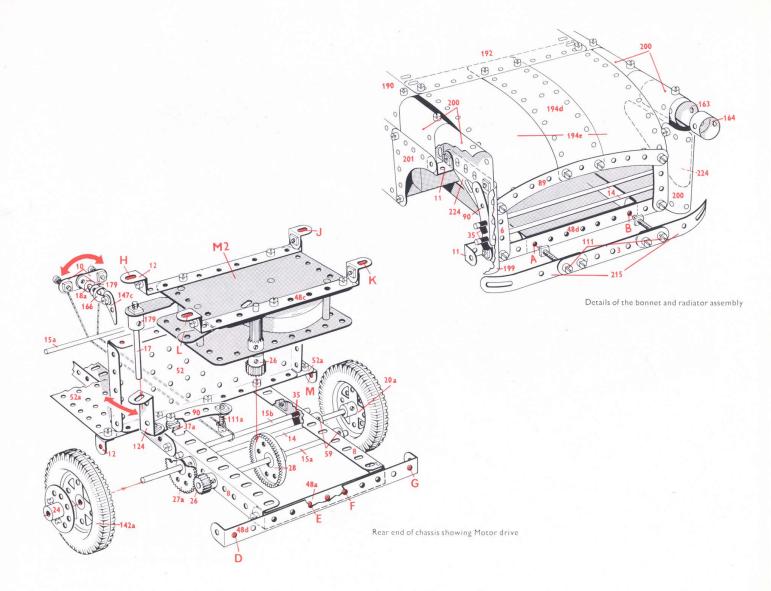
16 - 10

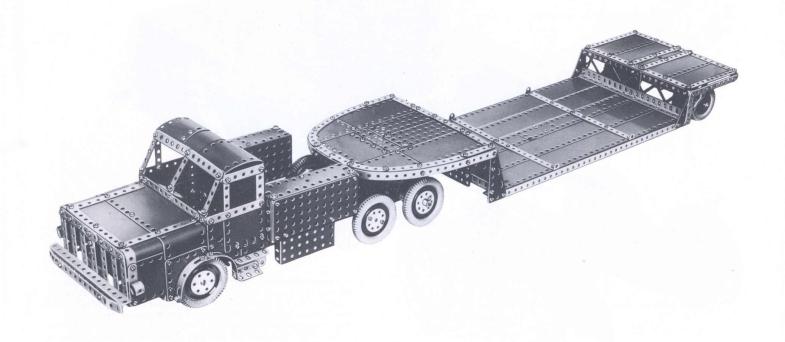
18

8







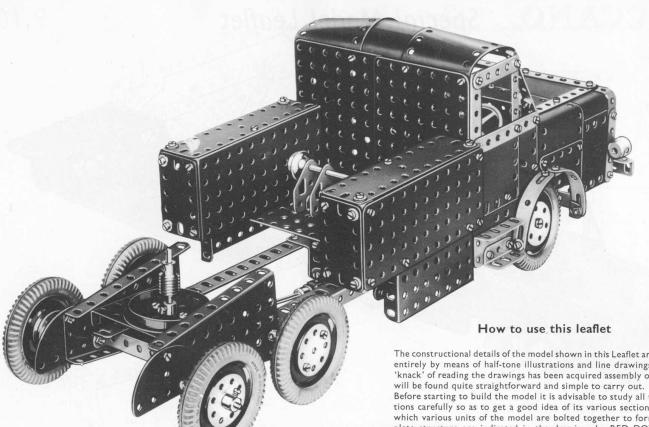


## 9.10 Articulated Lorry

This Meccano model of an Articulated Lorry is based on vehicles which have been designed to move exceptionally heavy and bulky loads. Such vehicles are frequently to be seen on the roads carrying large electrical transformers, ship components, boilers, earth-moving equipment and similar heavy loads. The loads may weigh anything up to 100 tons and the routes the vehicles follow have to be carefully planned in order to ensure that the roads are wide enough, and any bridges that have to be crossed strong enough, to accommodate them.

The Meccano Model is powered by a Meccano No. 1 Clockwork Motor that drives the leading pair of rear wheels of the tractor through a two-speed gear-box.

The rear wheels of the tractor are independently suspended. The rear end of the load platform is supported by four load-bearing tyred wheels, and its front end is pivotally attached to the tractor at a point centrally above the rear tractor wheels.



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

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.

