

# MECCANO®

**BOOK OF MODELS**

**VOORBEELDENBOEK**

**LIVRE DES MODÈLES**

**LIBRO DEI MODELLI**

**MODELLBUCH**

**MODELLBOK**

**LIBRO DE MODELOS**

**LIVRO DE MODELOS**

**MODELLBOK**

**4**

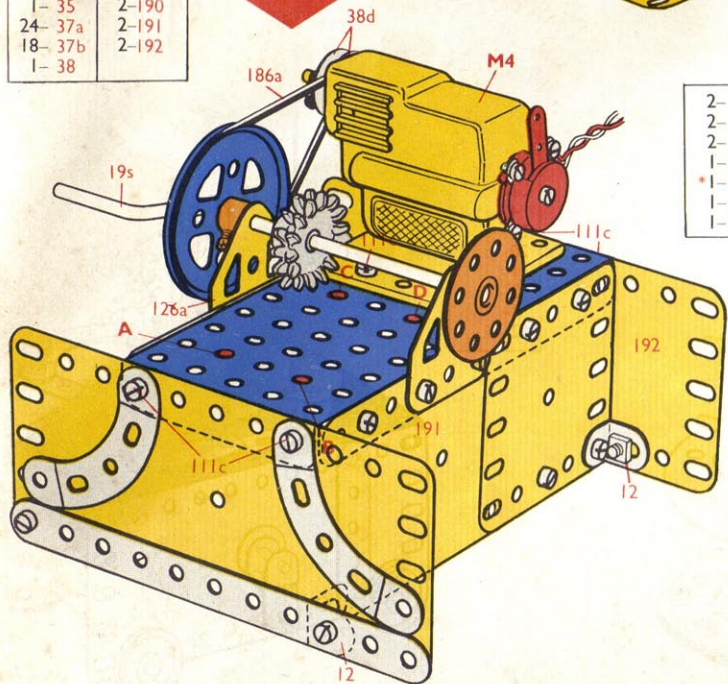
**Complete list of Meccano Parts**  
**Komplete lijst van Meccano-onderdelen**  
**Liste complète des pièces Meccano**  
**Distinta delle componenti del Corredo Meccano**  
**Vollständige Liste der Meccano-Teile**  
**Fullständig förteckning över Meccanodelar**  
**Lista completa de piezas de Meccano**  
**Lista completa de peças do Meccano**  
**Komplett liste over Meccanodeler**

<p><b>5 PERFORATED STRIPS</b></p> <p>1 - 12½"; 32 cm          1a - 9½"; 24 cm          1b - 7½"; 19 cm          2 - 5½"; 14 cm          2a - 4½"; 11½ cm</p> <p><b>6</b></p> <p>3 - 3½"; 9 cm          4 - 3"; 7½ cm          5 - 2½"; 6 cm          6 - 2"; 5 cm          6a 1½"; 38 mm</p>	<p><b>9c ANGLE GIRDERS</b></p> <p>7 - 24½"; 62 cm          7a - 18½"; 47 cm          8 - 12½"; 32 cm          8a - 9½"; 24 cm          8b - 7½"; 19 cm          9 - 5½"; 14 cm</p> <p>9a - 4½"; 11½ cm          9b - 3½"; 9 cm          9c - 3"; 7½ cm          9d - 2½"; 6 cm          9e - 2"; 5 cm          9f - 1½"; 38 mm</p>	FISHPLATE 10	DOUBLE BRACKET 11 - ½" × ½"; 12 × 12 mm	DOUBLE BRACKET 12 - 1" × ½"; 25 × 12 mm	<p><b>12 ANGLE BRACKETS</b></p> <p>12 - ½" × ½"; 12 × 12 mm          12a - 1" × 1"; 25 × 25 mm          12b - 1" × ½"; 25 × 12 mm</p>	<p><b>ANGLE BRACKET (OBTUSE)</b></p> <p>12c - ½" × ½"; 12 × 12 mm</p>	<p><b>AXLE RODS</b></p> <p>13 - 11½"; 29 cm          13a - 8"; 20 cm          14 - 6½"; 16½ cm          14a - 5½"; 14 cm          15 - 5"; 13 cm          15a - 4½"; 11½ cm          15b - 4"; 10 cm</p> <p>16 - 3½"; 9 cm          16a - 2½"; 6 cm          16b - 3"; 7½ cm          17 - 2"; 5 cm          18a - 1½"; 38 mm          18b - 1"; 25 mm</p>	
SPOKED WHEEL 19a - 3"; 75 mm	PULLEYS 19b - 3"; 75 mm 20a - 2"; 5 cm	PULLEY 19c - 6"; 15 cm	CRANK HANDLE 19h - 5"; 13 cm 19s - 3½"; 9 cm	FLANGED WHEELS 20 - 1½"; 28 mm 20b - ¾"; 19 mm	PULLEY 21 - 1½"; 38 mm	PULLEY 22 - 1"; 25 mm		
<p><b>22a</b> - 1"; 25 mm  <b>23</b> plastic - ½"; 12 mm  <b>23a</b> - ½"; 12 mm  <b>23b</b> metal - ½"; 12 mm</p> <p><b>PULLEYS</b></p>	BUSH WHEEL 24 - 1½"; 34 mm	WHEEL DISC 24a - 1½"; 34 mm	BUSH WHEEL 24b - 1½"; 34 mm	WHEEL DISC 24c - 1½"; 34 mm	<p><b>PINIONS</b></p> <p>25 - ½" × ½"; 19 × 6 mm          25a - ¾" × ½"; 19 × 12 mm          25b - ¾" × ¾"; 19 × 19 mm          26 - ¾" × ¾"; 12 × 6 mm          26a - ¾" × ¾"; 12 × 12 mm          26b - ¾" × ¾"; 12 × 19 mm          26c - 7⁄8" × ½"; 11 × 6 mm</p>	<p><b>GEAR WHEELS</b></p> <p>27 - 1½"; 32 mm          27a - 1½"; 38 mm          27d - 1½"; 41 mm</p>	<p><b>GEAR WHEELS</b></p> <p>27b - 3½"; 9 cm          27c - 2½"; 6 cm</p>	
<p><b>27f MULTI-PURPOSE GEAR WHEEL</b></p> <p><b>BOLT</b> 37b - ¾"; 5 mm</p>	<p><b>CONTRATE WHEEL</b></p> <p>28 - 1½"; 38 mm          29 - ¾"; 19 mm</p>	<p><b>BEVEL GEARS</b>          For use in pairs. can only be used together.</p> <p>30a - ½"; 12 mm          30b - ¾"; 19 mm          30c - 1½"; 38 mm</p>	<p><b>GEAR WHEEL</b></p> <p>31 - 1" × ½" 25mm × 6mm</p>	<p><b>WORM</b></p> <p>32 - ½"; 12 mm</p>	<p><b>BOX SPANNER</b></p> <p>34b</p>	<p><b>SPRING CLIP</b></p> <p>35</p>	<p><b>SCREWDRIVERS</b></p>	<p><b>DRIFT</b></p> <p>36c</p>
<p><b>NUT</b> 37a  <b>NUT AND BOLT</b> 37</p>	<p><b>WASHERS</b></p> <p>38 - ¾"; 10 mm          38d - ¾"; 19 mm</p>	<p><b>HANK OF CORD</b></p> <p>40</p>	<p><b>PROPELLER BLADE</b></p> <p>41</p>	<p><b>TENSION SPRING</b></p> <p>43 - 2"; 5 cm</p>	<p><b>BENT STRIP STEPPED</b></p> <p>44</p>	<p><b>DOUBLE BENT STRIP</b></p> <p>45</p>	<p><b>DOUBLE ANGLE STRIPS</b></p> <p>46 - 2½" × 1"; 60 × 25 mm          47 - 2½" × 1½"; 60 × 38 mm          47a - 3" × 1½"; 75 × 38 mm          48 - 1½" × ½"; 38 × 12 mm          48a - 2½" × ½"; 60 × 12 mm          48b - 3" × ½"; 90 × 12 mm          48c - 4" × ½"; 115 × 12 mm          48d - 5" × ½"; 140 × 12 mm</p>	<p><b>SLIDE PIECE</b></p> <p>50</p>

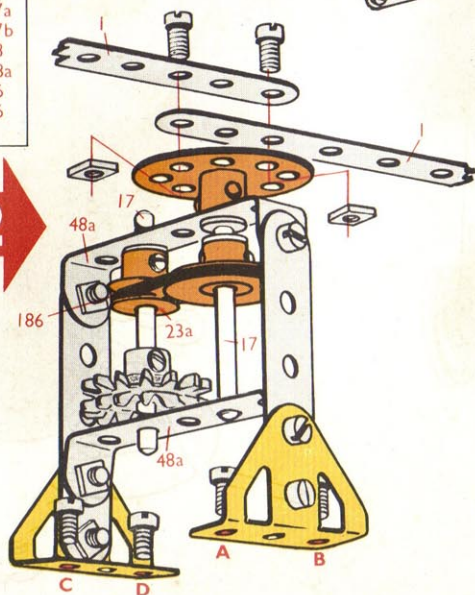
# 4.1.

**Flying Jets**  
**Vliegende straalvliegtuigen**  
**Avions à réaction en vol**  
**Aviogetti in volo**  
**Düsenflieger**  
**Flygande jetplan**  
**Aviones reactores**  
**Aviões de jacto**  
**Jetfly**

2- 2	2- 38d
2- 12	1- 52
1- 19s	4- 90a
1- 20a	6-111c
1- 24	2-126a
1- 27f	*1-186a
1- 35	2-190
24- 37a	2-191
18- 37b	2-192
1- 38	

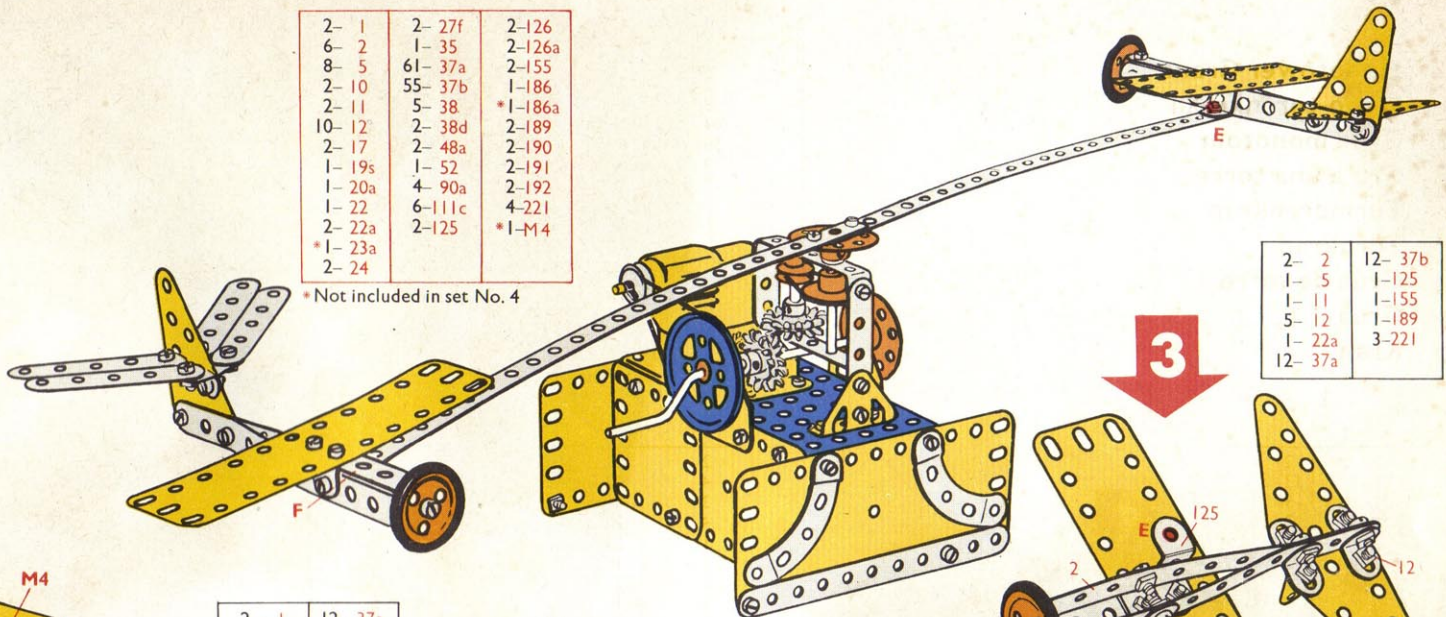


2- 1	12- 37a
2- 5	12- 37b
2- 17	4- 38
1- 22	2- 48a
*1- 23a	2-126
1- 24	*1-186
1- 27f	



\*Not included in set No. 4

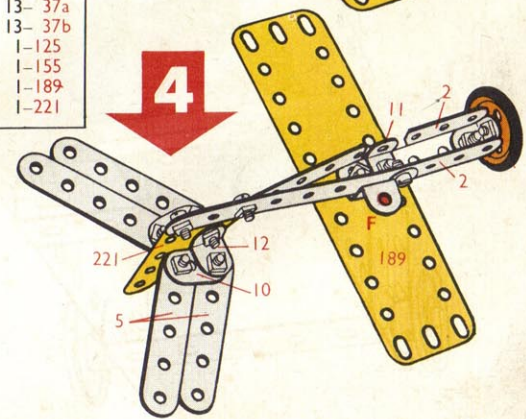
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6- 2	1- 35	2-126a
8- 5	61- 37a	2-155
2- 10	55- 37b	1-186
2- 11	5- 38	*1-186a
10- 12	2- 38d	2-189
2- 17	2- 48a	2-190
1- 19s	1- 52	2-191
1- 20a	4- 90a	2-192
1- 22	6-111c	4-221
2- 22a	2-125	*1-M4
*1- 23a		
2- 24		



2- 2	12- 37b
1- 5	1-125
1- 11	1-155
5- 12	1-189
1- 22a	3-221
12- 37a	



2- 2
5- 5
2- 10
1- 11
3- 12
1- 22a
13- 37a
13- 37b
1-125
1-155
1-189
1-221



## 4.2.

Monotower Crane

Mono-torénkraan

Grue monotour

Gru a una torre

Turmdrehkran

Tornkran

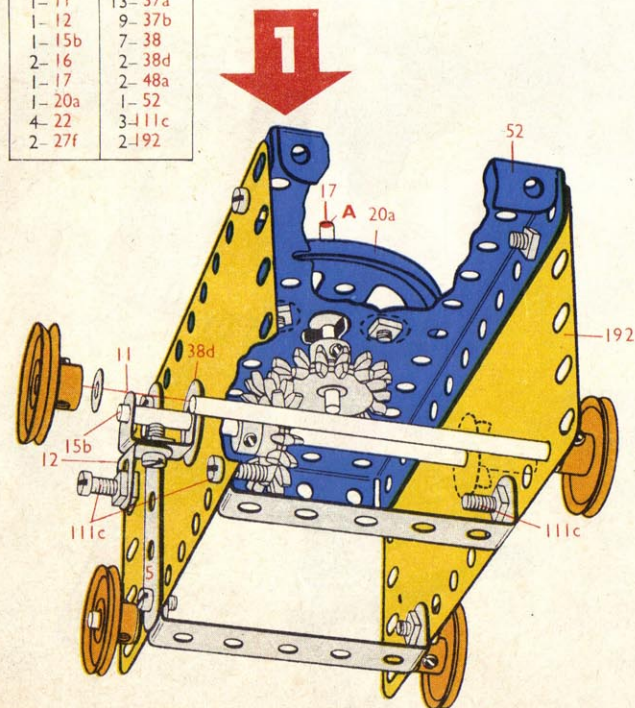
Grúa de torre

Grua

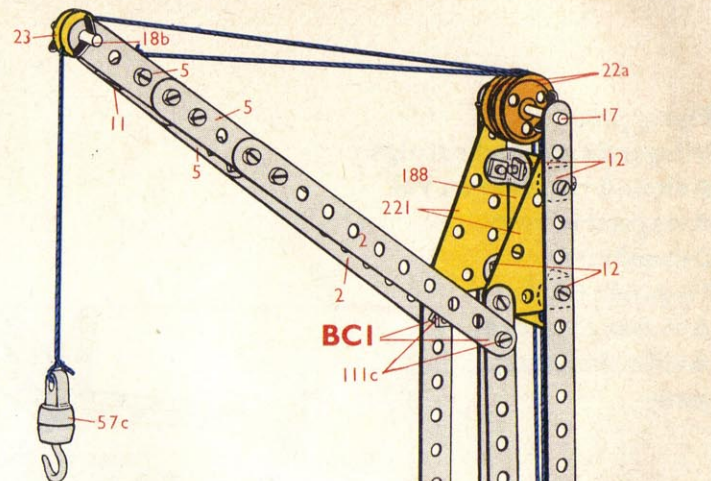
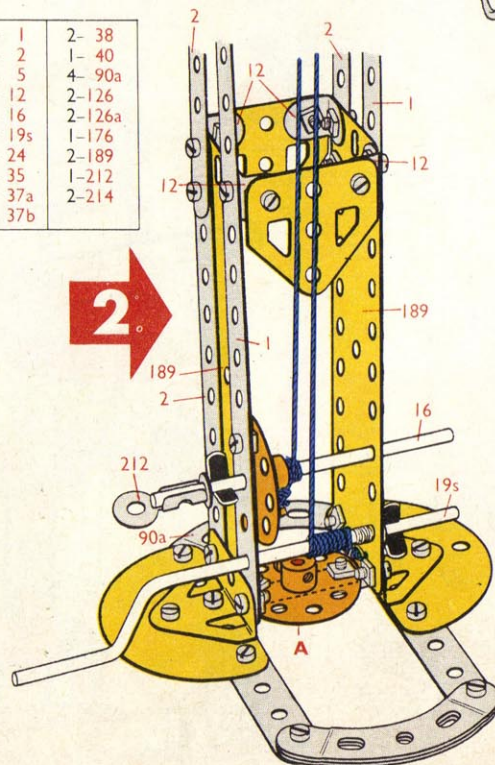
Kran

2- 1	2- 22a	1- 57c
6- 2	1- 23	4- 90a
9- 5	2- 24	5-111c
2- 11	2- 27f	2-126
9- 12	8- 35	2-126a
1- 15b	64- 37a	1-176
3- 16	56- 37b	1-188
2- 17	9- 38	2-189
1- 18b	2- 38d	2-192
1- 19s	1- 40	1-212
1- 20a	2- 48a	2-214
4- 22	1- 52	2-221

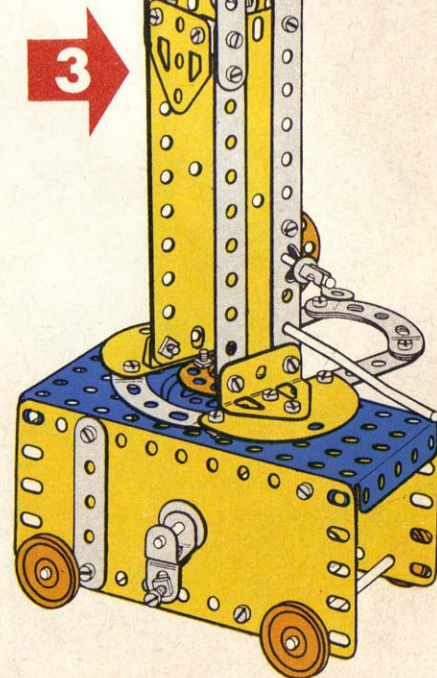
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1- 11	13- 37a
1- 12	9- 37b
1- 15b	7- 38
2- 16	2- 38d
1- 17	2- 48a
1- 20a	1- 52
4- 22	3-111c
2- 27f	2-192



2- 1	2- 38
4- 2	1- 40
3- 5	4- 90a
4- 12	2-126
1- 16	2-126a
1- 19s	1-176
2- 24	2-189
2- 35	1-212
27- 37a	2-214
27- 37b	



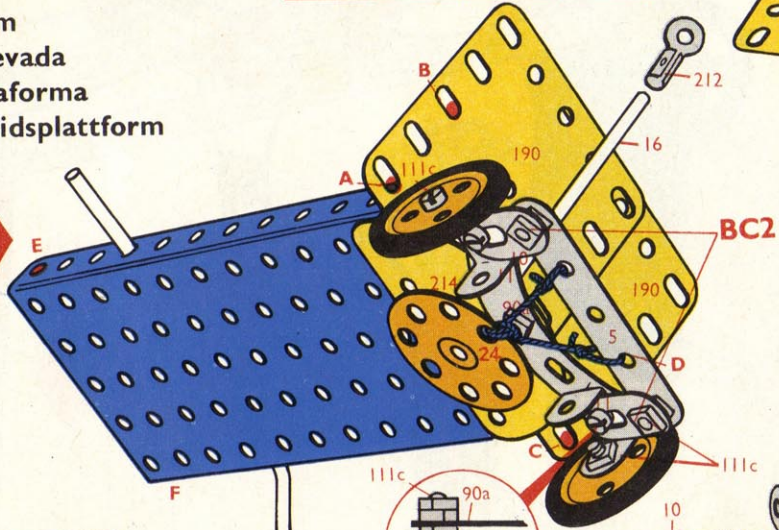
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4- 5
1- 11
4- 12
1- 17
1- 18b
2- 22a
1- 23
4- 35
24- 37a
20- 37
1- 57c
2-111c
1-188
2-221



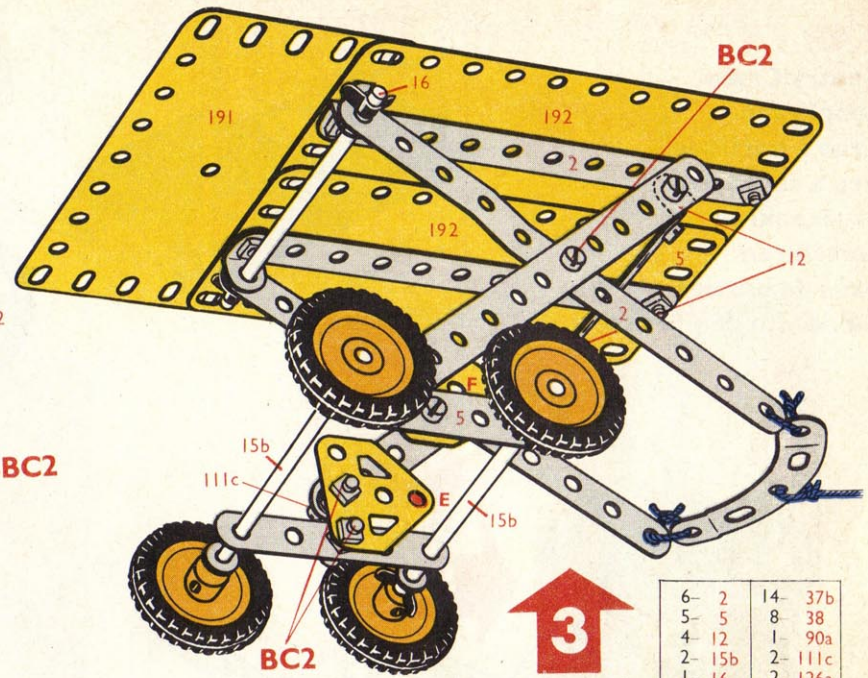
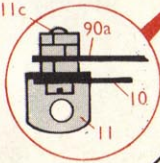
### 4.3.

**Elevated Platform Lorry**  
**Vrachtwagen met laadplatform**  
**Camion à plateforme surélevée**  
**Autocarro a pianale elevato**  
**Hochlader**  
**Lastbil med höjd plattform**  
**Camión de plataforma elevada**  
**Grande Camião com plataforma**  
**Lastebil med hevbar arbeidsplattform**

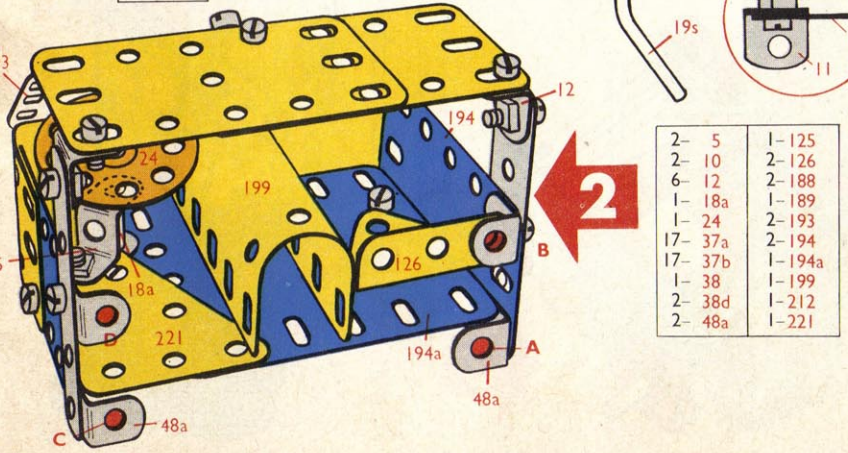
6- 2	2- 22a	2- 90a	1-191
8- 5	2- 24	6-111c	2-192
4-10	6- 35	1-125	2-193
2-11	57- 37a	2-126	2-194
10-12	39- 37b	2-126a	1-194a
2-15b	9- 38	4-142c	1-199
2-16	2- 38d	2-155	1-212
1-18a	1- 40	2-188	1-214
1-19s	2- 48a	1-189	1-221
4-22	1- 52	2-190	



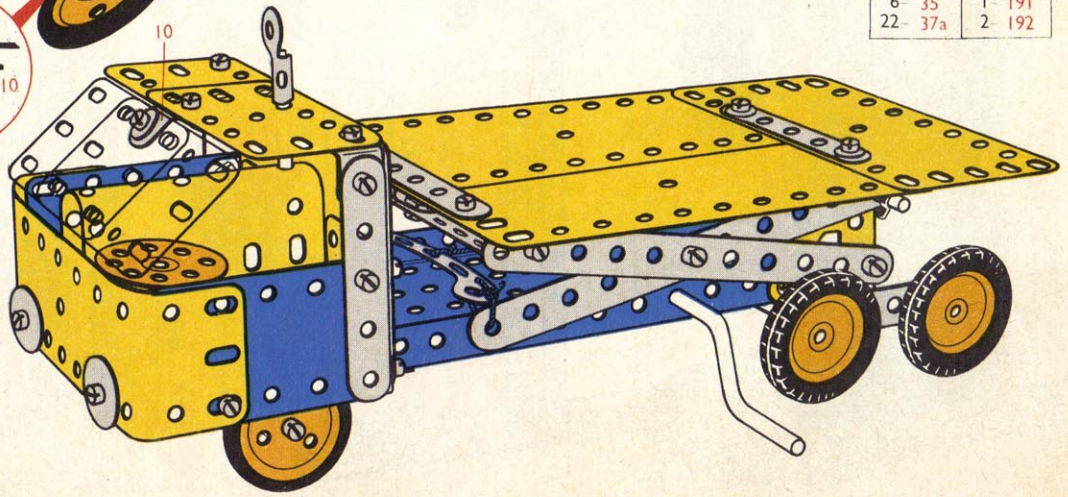
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2-10
2-11
1-16
1-19s
2-22a
1-24
18-37a
6-37b
1-40
1-52
1-90a
4-111c
2-155
1-176
2-190
1-214



6- 2	14- 37b
5- 5	8- 38
4-12	1- 90a
2-15b	2-111c
1-16	2-126a
4-22	4-142c
6-35	1-191
22-37a	2-192



2- 5	1-125
2-10	2-126
6-12	2-188
1-18a	1-189
1-24	2-193
17-37a	2-194
17-37b	1-194a
1-38	1-199
2-38d	1-212
2-48a	1-221



# 4.4.

Gantry Crane

Loopkraan

Grue à portique

Gru a cavalletto

Brückenkran

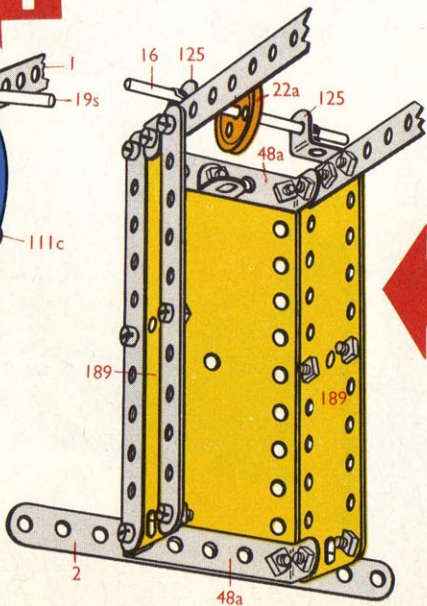
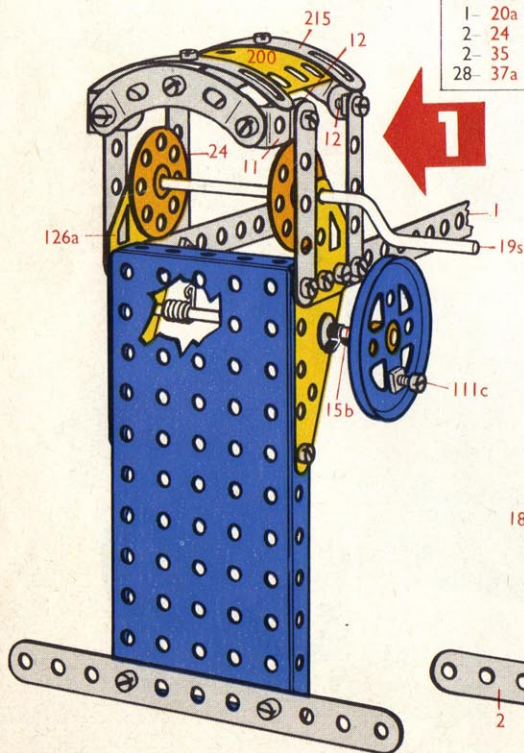
Portalkran

Grúa de pórtico

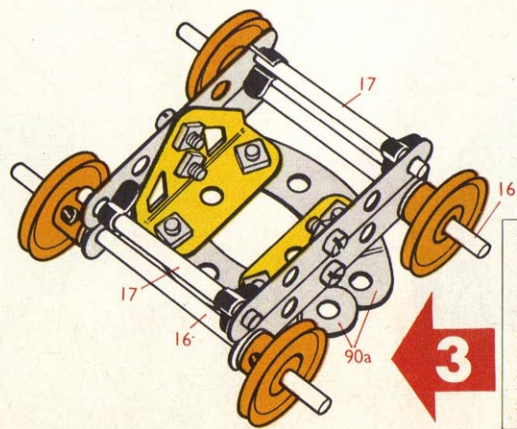
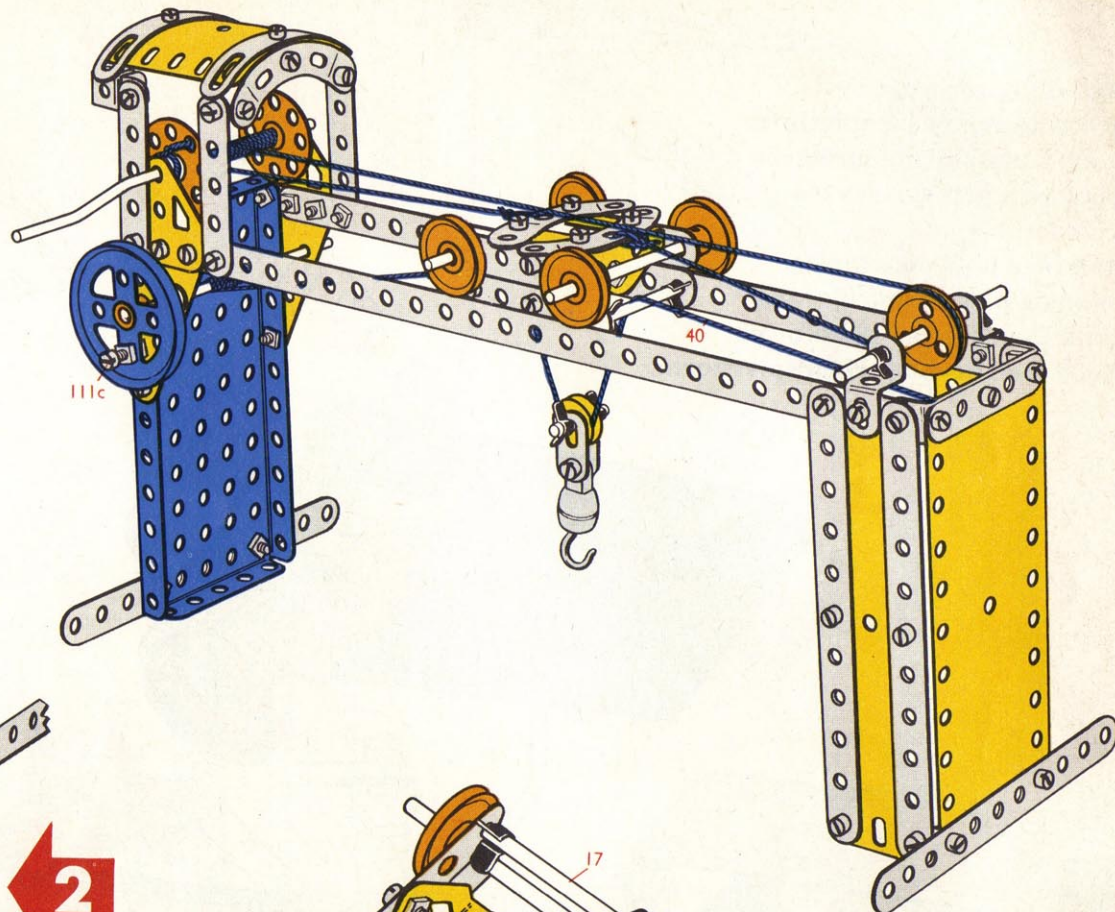
Guindaste de pórtico

2- 1	4- 22	4- 90a
6- 2	1- 22a	2- 111c
9- 5	1- 23	2- 125
2- 10	2- 24	2- 126
2- 11	10- 35	2- 126a
7- 12	57- 37a	1- 176
1- 15b	53- 37b	2- 189
3- 16	10- 38	1- 192
2- 17	1- 40	1- 200
1- 18b	2- 48a	2- 215
1- 19s	1- 52	2- 221
1- 20a	1- 57c	

2- 1	26- 37b
1- 2	2- 38
4- 5	1- 52
2- 11	2- 90a
6- 12	1- 111c
1- 15b	2- 126a
1- 19s	1- 176
1- 20a	1- 200
2- 24	2- 215
2- 35	2- 221
28- 37a	



5- 2
1- 5
1- 12
1- 16
1- 22a
2- 35
19- 37a
19- 37b
2- 48a
2- 125
2- 189
1- 192



4- 5
2- 16
2- 17
4- 22
4- 35
8- 37a
8- 37b
8- 38
2- 90a
2- 126



2- 10
1- 18b
1- 23
2- 35
2- 37a
1- 57c
1- 111c

## 4.5.

## Platform Weighing Machine

Bascule

Pont à bascule

Bascala

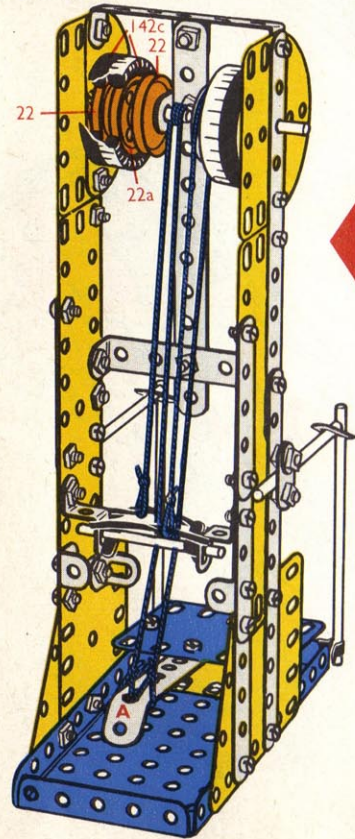
Plattformwaage

Plattformsvåg

Báscula de plataforma

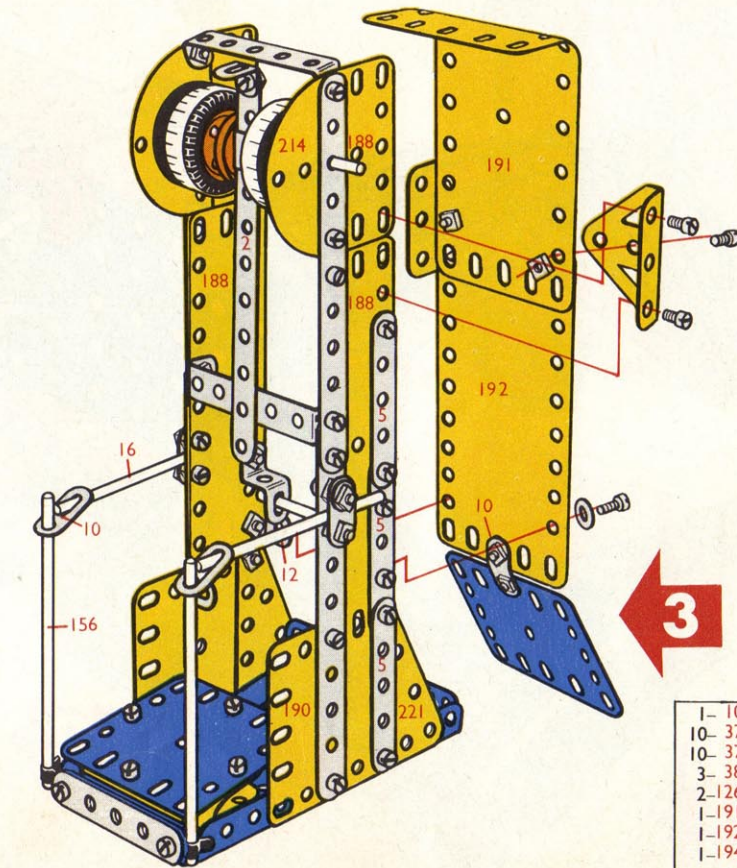
Báscula com plataforma

Plattformvekt



2

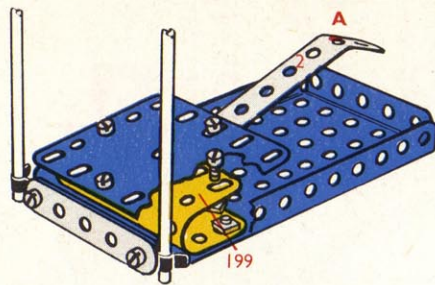
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- 6- 5
- 4- 10
- 1- 11
- 5- 12
- 2- 16
- 2- 17
- 1- 18a
- 4- 22
- 2- 22a
- 2- 35
- 35- 37a
- 27- 37b
- 2- 38
- 1- 40
- 2- 48a
- 4- 111c
- 2- 125
- 4- 142c
- 1- 186
- 2- 188
- 2- 189
- 2- 190
- 2- 214
- 2- 221



3

- 1- 10
- 10- 37a
- 10- 37b
- 3- 38
- 2- 126
- 1- 191
- 1- 192
- 1- 194a

6- 2	62- 37a	2- 189
8- 5	54- 37b	2- 190
5- 10	5- 38	2- 191
1- 11	1- 40	1- 192
6- 12	2- 48a	2- 193
2- 15b	1- 52	2- 194a
2- 16	4- 111c	1- 199
2- 17	2- 125	1- 200
1- 18a	2- 126	2- 214
4- 22	4- 142c	2- 221
2- 22a	1- 186	
4- 35	2- 188	

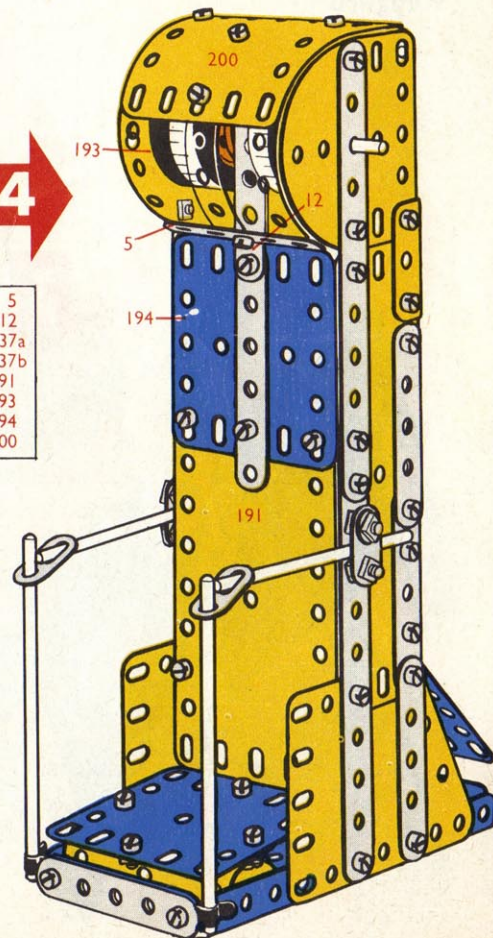


1

- 1- 2
- 1- 5
- 2- 15b
- 2- 35
- 8- 37a
- 8- 37b
- 1- 52
- 1- 194a
- 1- 199

4

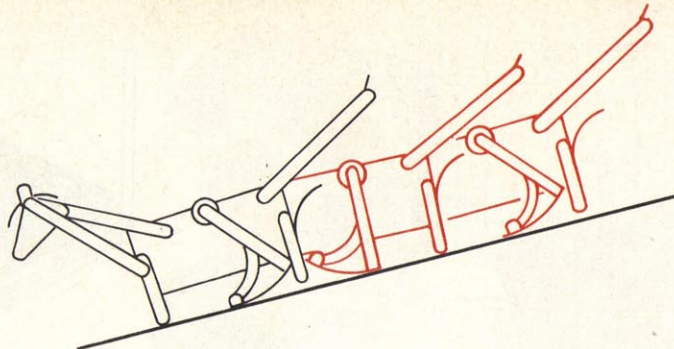
- 1- 5
- 1- 12
- 9- 37a
- 9- 37b
- 1- 191
- 2- 193
- 2- 194
- 1- 200



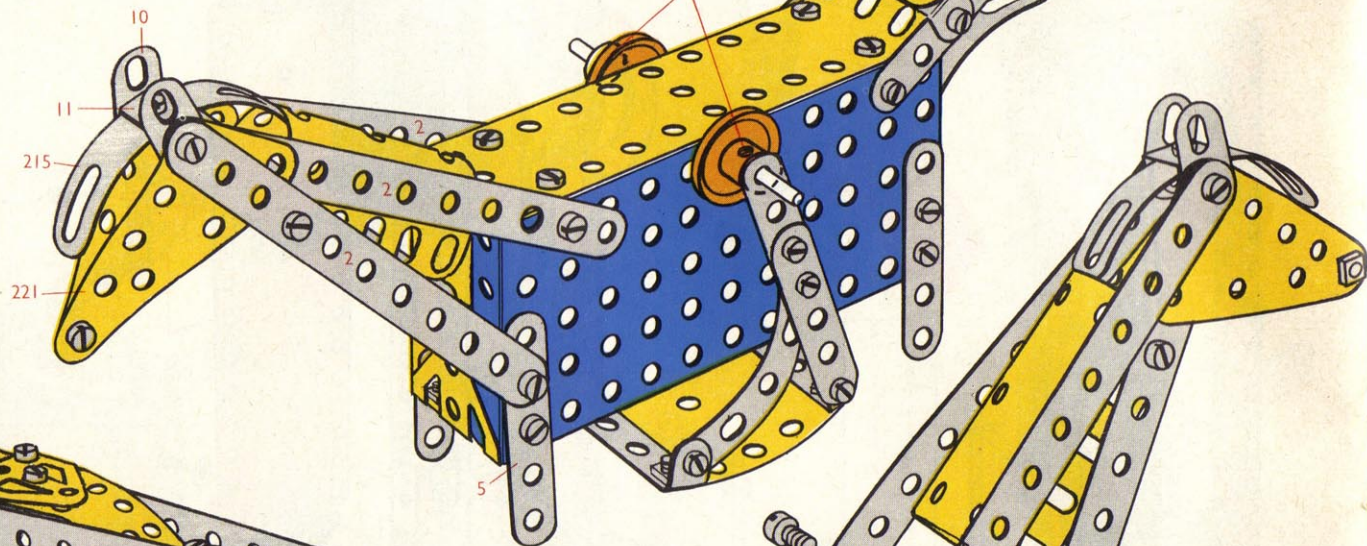
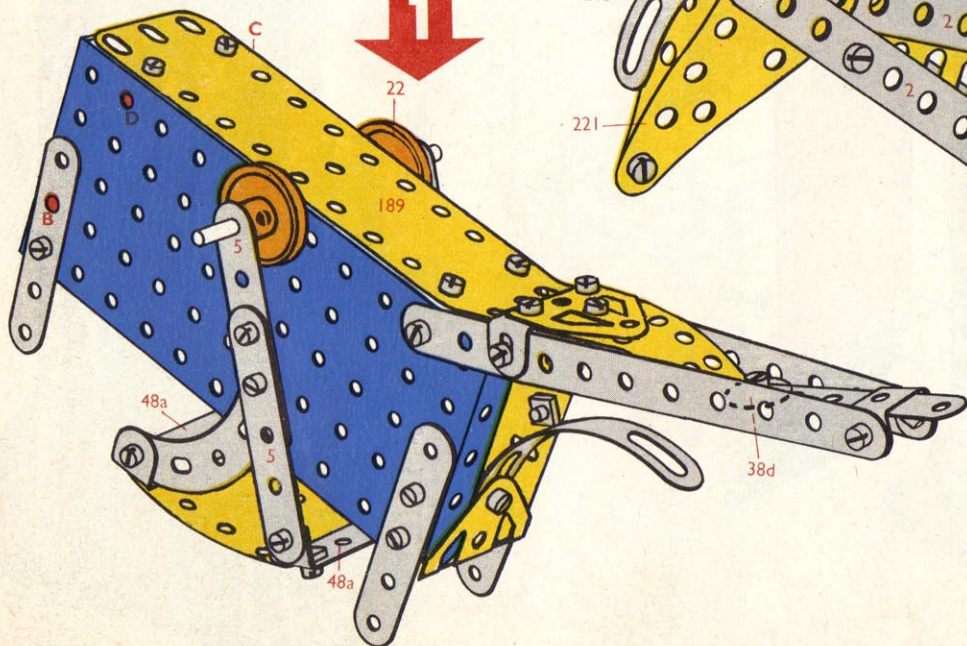
## 4.6.

Kangaroo  
Kangoeroe  
Kangourou  
Canguro  
Känguruh  
Canguru  
Kenguru

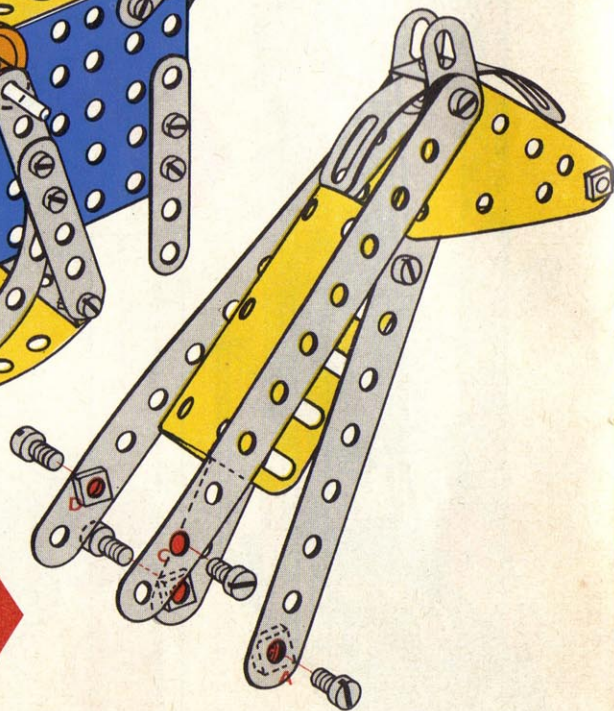
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2-	11	2-	48a	1-	199
6-	12	1-	52	1-	200
1-	16	2-	90a	2-	215
2-	22	2-	126	3-	221



2-	2	2-	48a
9-	5	1-	52
1-	11	2-	90a
6-	12	2-	126
1-	16	1-	126a
2-	22	1-	189
34-	37a	1-	192
34-	37b	1-	200
2-	38	1-	215
1-	38d	1-	221



4-	2
2-	10
1-	11
10-	37a
10-	37b
1-	199
1-	215
2-	221







# 4.8.

Heavy Tipping Lorry

Zware kipwagen

Camion poids lourd

à benne basculante

Ribaltabile per servizio pesante

Schwerkipplaster

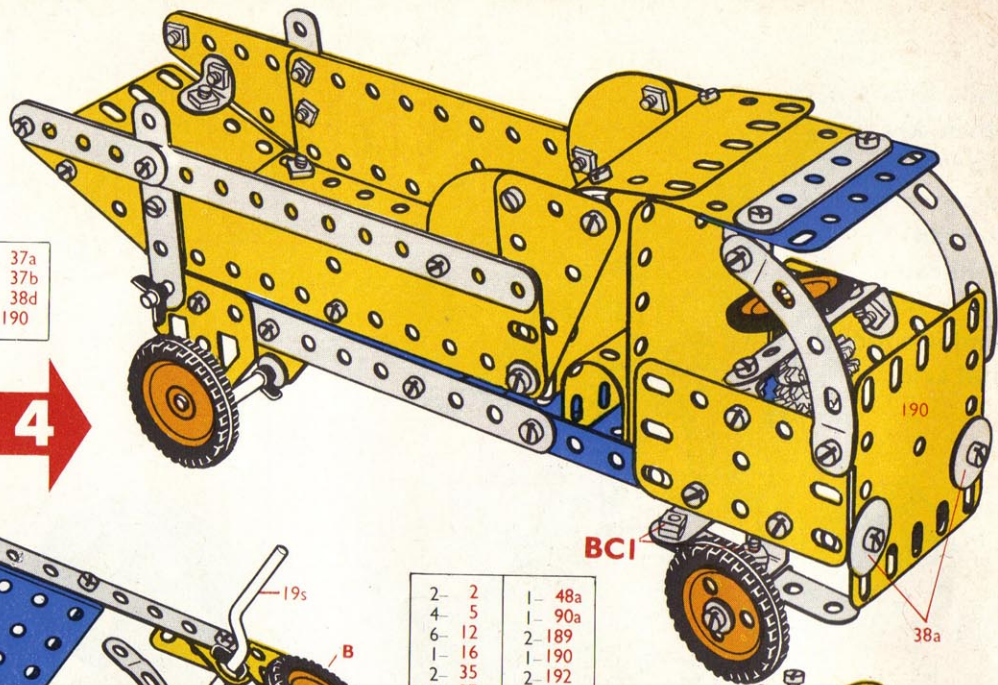
Tung tipplastvagn

Camión basculante pesado

Grande Camião basculante

Tung tipplastebil

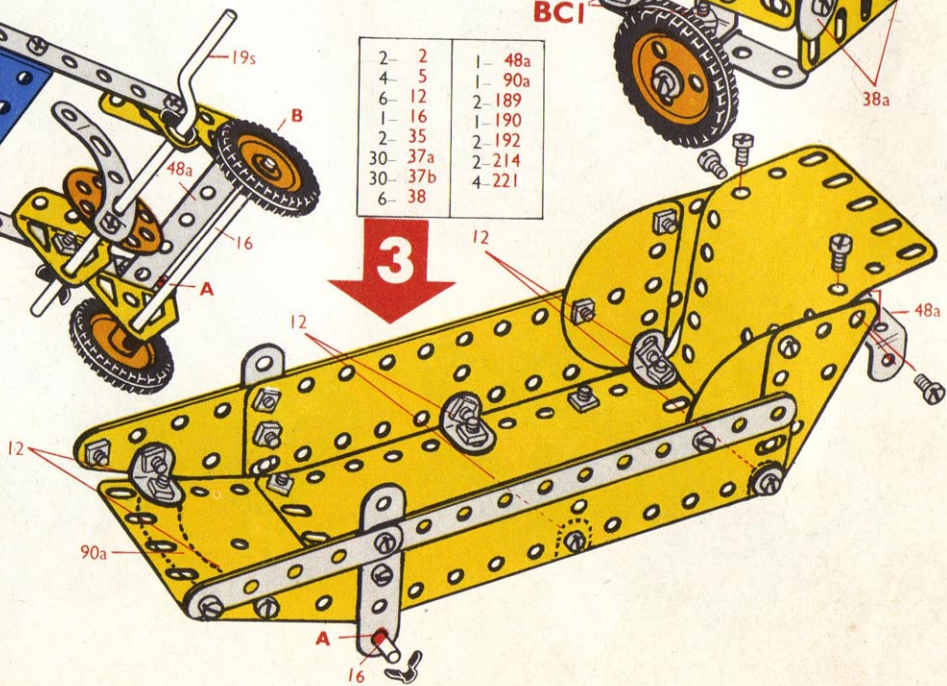
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2	11	61	37b	2	189
10	12	10	38	2	190
2	16	2	38d	1	191
1	18a	2	48a	2	192
1	18b	1	52	1	194
1	19s	4	90a	1	199
1	20a	6	111c	2	214
3	22	2	125	4	221
2	22a	2	126		
2	24	2	126a		



2	37a
2	37b
2	38d
1	190

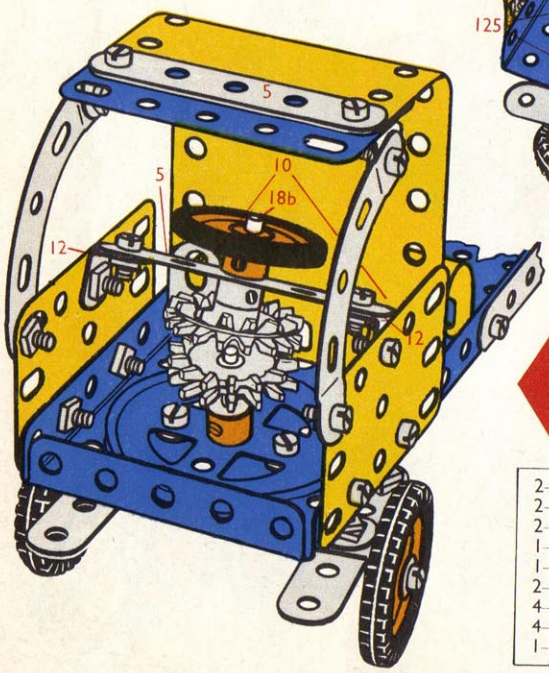


2	2	1	48a
4	5	1	90a
6	12	2	189
1	16	1	190
2	35	2	192
30	37a	2	214
30	37b	4	221
6	38		



2	2	25	37b
3	5	4	38
1	10	1	48a
2	11	1	52
2	12	3	90a
1	16	6	111c
1	18a	2	125
1	19s	2	126
1	20a	2	126a
2	22	4	142c
2	22a	2	188
2	24	1	191
2	35	1	194
37	37a	1	199

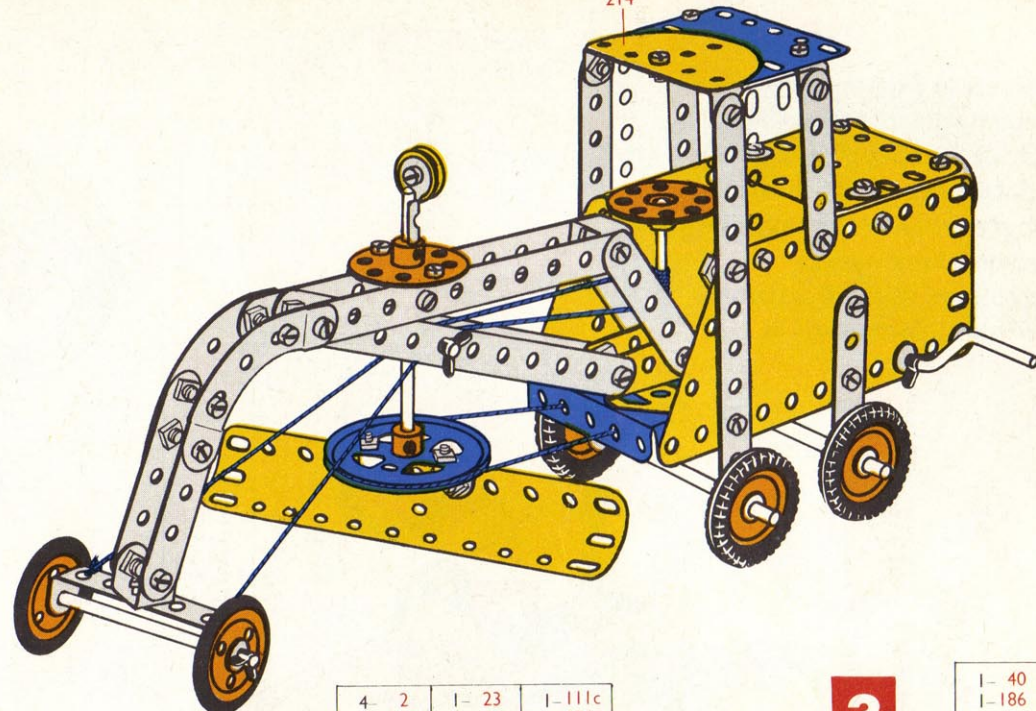
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2	10
2	12
1	18b
1	22
2	27f
4	37a
4	37b
1	155



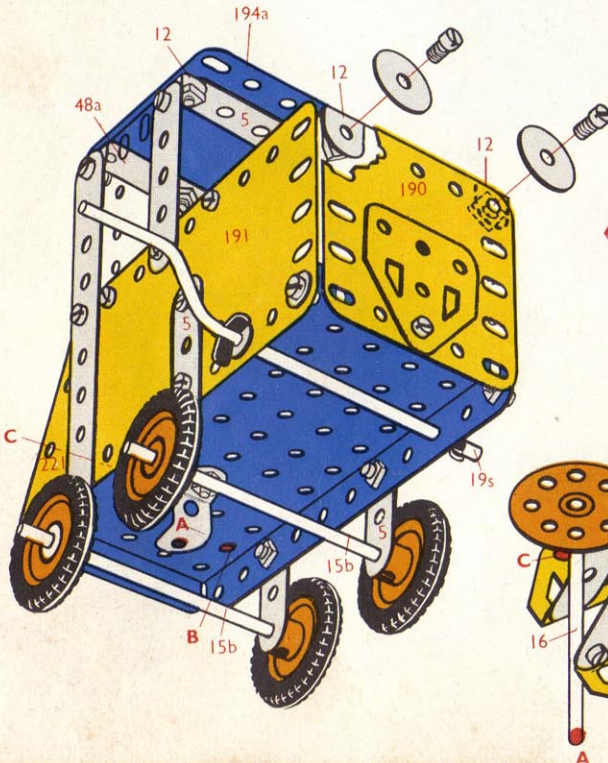
4.9.

Grader  
 Mechanische schop  
 Niveleuse  
 Motolivellatore  
 Planierfahrzeug  
 Väghyvel  
 Niveladora  
 Veiskrape

6- 2	7- 35	4- 142c
9- 5	60- 37a	2- 155
2- 11	58- 37b	1- 176
10- 12	10- 38	1- 186
2- 15b	2- 38d	1- 189
3- 16	1- 40	2- 190
1- 18b	2- 48a	2- 191
1- 19s	1- 52	2- 193
1- 20a	2- 90a	1- 194a
4- 22	1- 111c	1- 212
2- 22a	1- 125	1- 214
1- 23	2- 126	2- 221
2- 24	1- 126a	

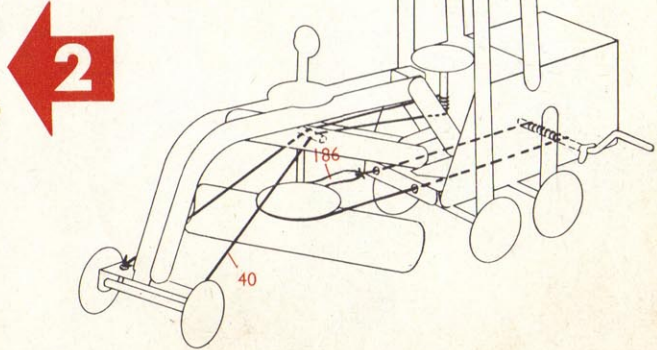
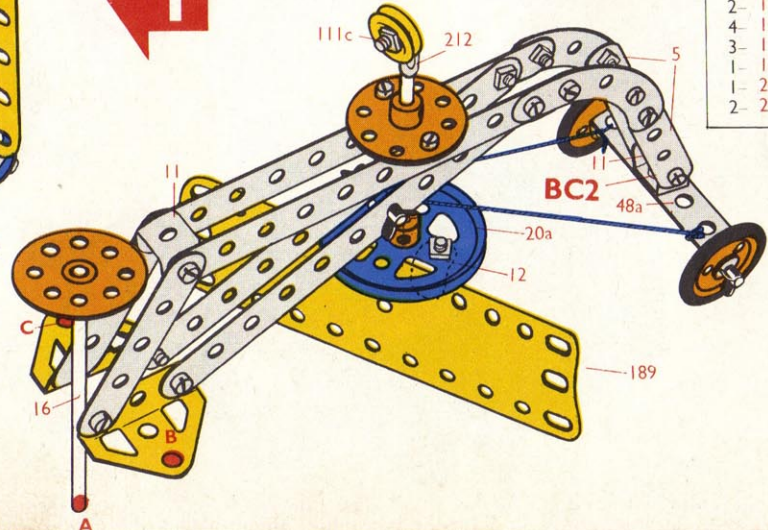


2- 2	1- 48a
5- 5	1- 52
6- 12	1- 125
2- 15b	1- 126a
1- 19s	4- 142c
4- 22	2- 190
2- 35	2- 191
31- 37a	2- 193
31- 37b	1- 194a
6- 38	1- 214
2- 38d	2- 221



4- 2	1- 23	1- 111c
4- 5	2- 24	2- 126
2- 11	5- 35	2- 155
4- 12	29- 37a	1- 176
3- 16	27- 37b	1- 189
1- 18b	4- 38	1- 212
1- 20a	1- 48a	
2- 22a	2- 90a	

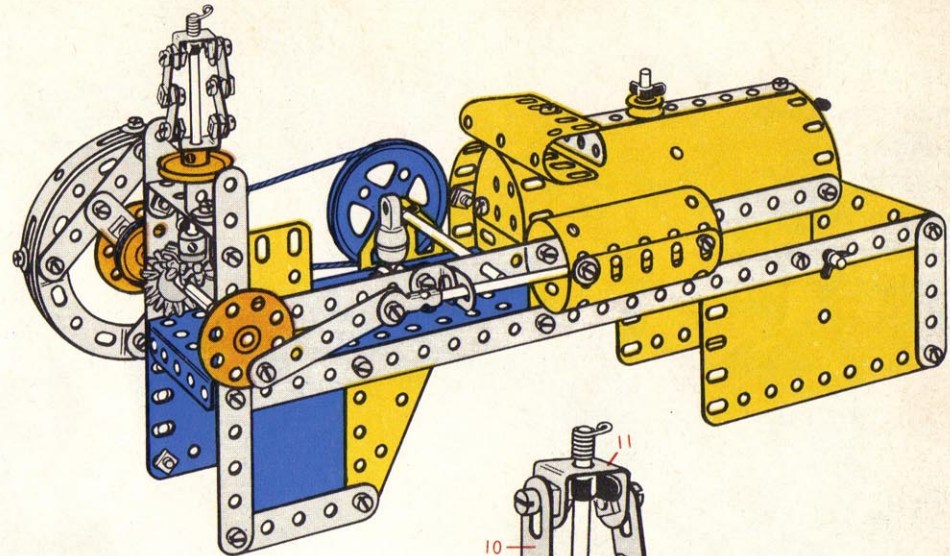
1- 40
1- 186



# 4.10.

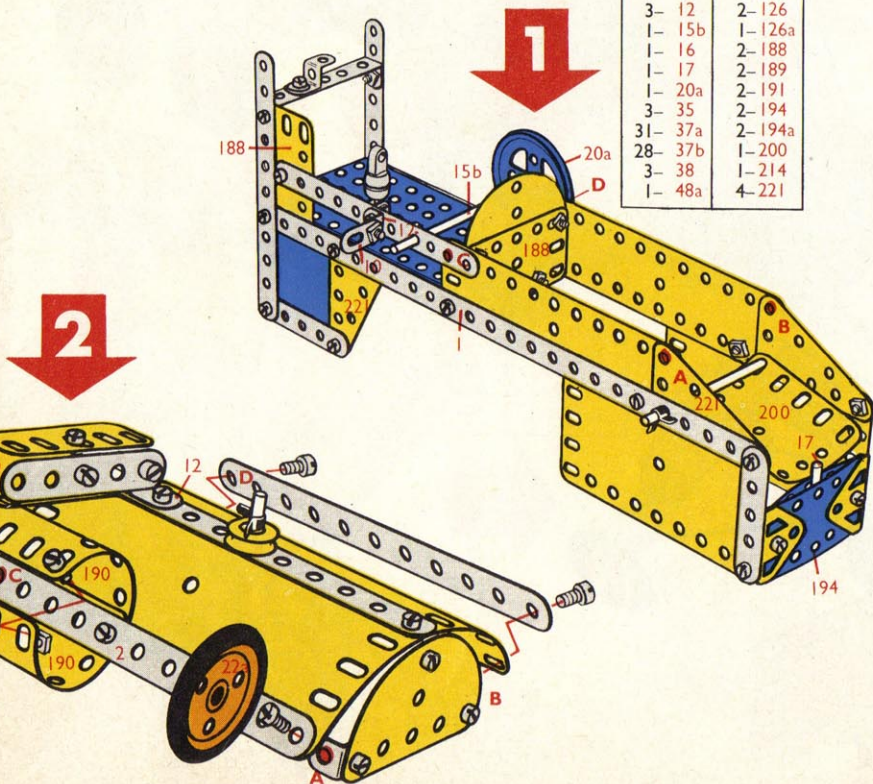
**Horizontal Steam Engine**  
**Horizontale stoommachine**  
**Machine à vapeur horizontale**  
**Caldaia a vapore orizzontale**  
**Waagrechte Dampfmachine**  
**Horisontalångmaskin**  
**Máquina de vapor horizontal**  
**Horisontal dampmaskin**

2- 1	1- 20a	1- 52	2- 191
6- 2	3- 22	1- 57c	2- 192
9- 5	1- 22a	4- 90a	2- 194
5- 10	1- 23	3- 111c	2- 194a
2- 11	2- 24	1- 125	1- 199
8- 12	2- 27f	2- 126	1- 200
2- 15b	7- 35	1- 126a	1- 212
2- 16	71- 37a	1- 155	1- 213
1- 17	60- 37b	1- 176	2- 214
1- 18a	9- 38	2- 188	4- 215
1- 18b	1- 40	2- 189	4- 221
1- 19s	2- 48a	2- 190	

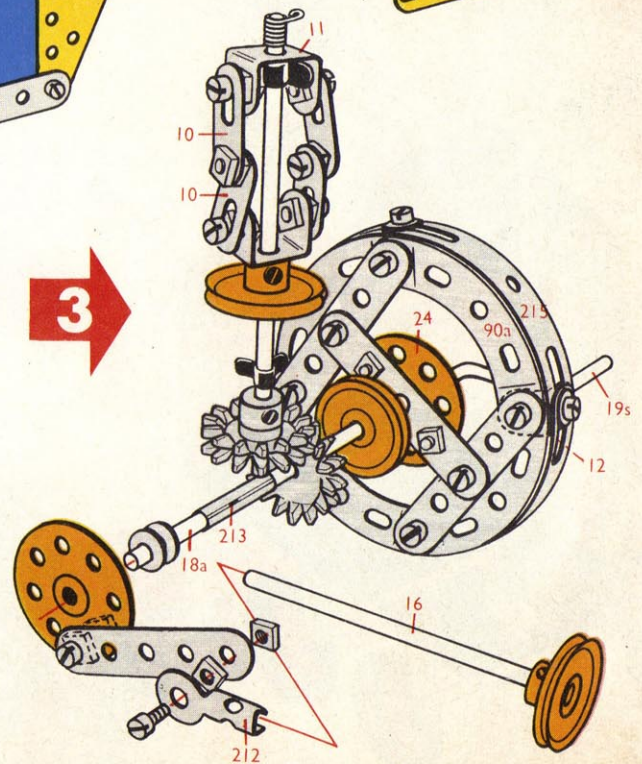


3- 2.
1- 5
3- 12
1- 18b
1- 22a
1- 23
2- 35
12- 37a
12- 37b
1- 48a
1- 155
2- 190
2- 192
1- 199
1- 214

2- 1	1- 52
3- 2	1- 57c
4- 5	3- 111c
1- 10	1- 125
3- 12	2- 126
1- 15b	1- 126a
1- 16	2- 188
1- 17	2- 189
1- 20a	2- 191
3- 35	2- 194
31- 37a	2- 194a
28- 37b	1- 200
3- 38	1- 214
1- 48a	4- 221



4- 5
4- 10
2- 11
2- 12
1- 15b
1- 16
1- 18a
1- 19s
3- 22
2- 24
2- 27f
2- 35
28- 37a
20- 37b
6- 38
4- 90a
1- 176
1- 212
1- 213
4- 215

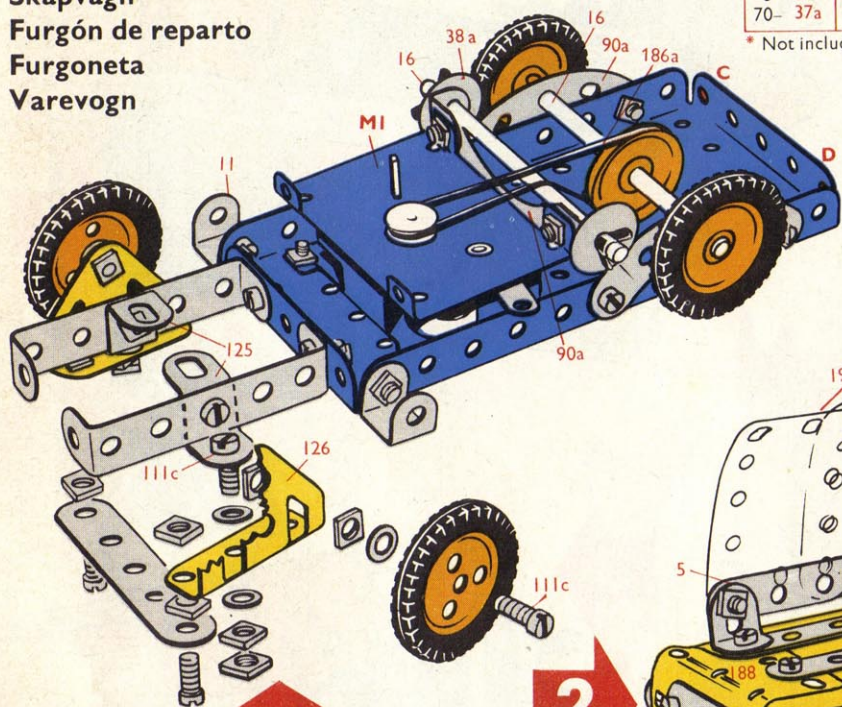


## 4.11.

Delivery Van  
 Bestelwagen  
 Camionnette  
 Furgoncino  
 Lieferfahrzeug  
 Skåpvagn  
 Furgón de reparto  
 Furgoneta  
 Varevogn

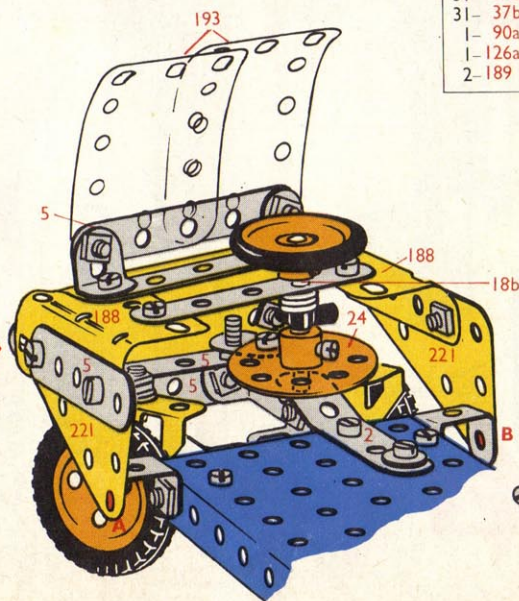
6- 2	62- 37b	2-188
9- 5	10- 38	2-189
3-10	2- 38d	2-190
2-11	2- 48a	2-191
4-12	1- 52	2-192
2-16	4- 90a	2-193
1-18a	4-111c	2-194
1-18b	2-125	2-194a
4-22	2-126	1-199
2-22a	2-126a	1-212
1-24	4-142c	1-214
3-35	1-155	2-221
70-37a	*1-186a	*1-M1

\* Not included in set

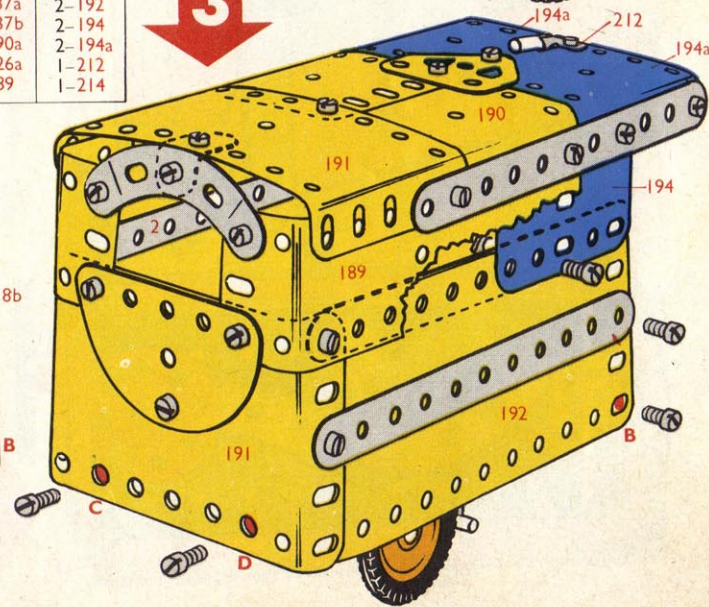
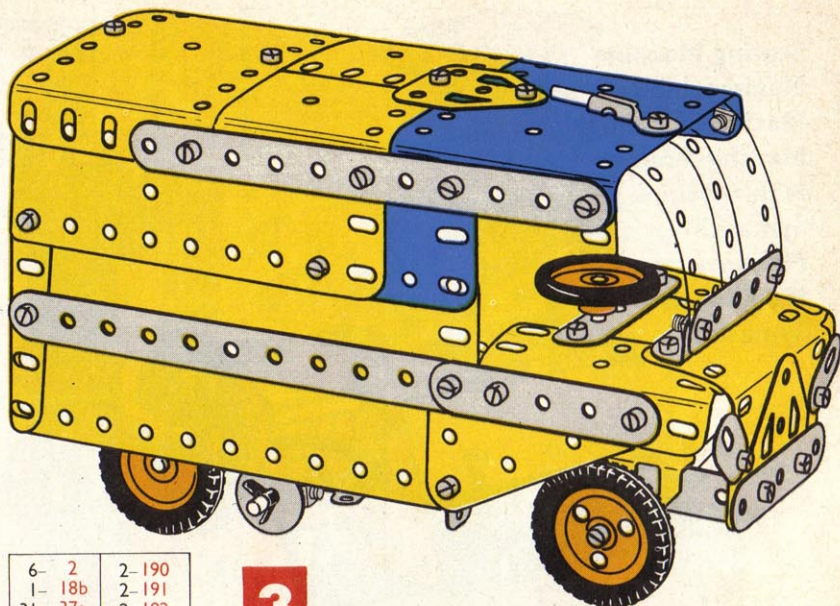


1- 5	2- 38d
2-11	2- 48a
2-12	1- 52
2-16	3- 90a
3-22	4-111c
2-22a	2-125
2-35	2-126
24-37a	4-142c
16-37b	*1-186a
6- 38	

8- 5	15- 37b
3-10	4- 38
2-12	1-126a
1-18a	1-155
1-22	2-188
1-24	2-193
1-35	1-199
15-37a	2-221



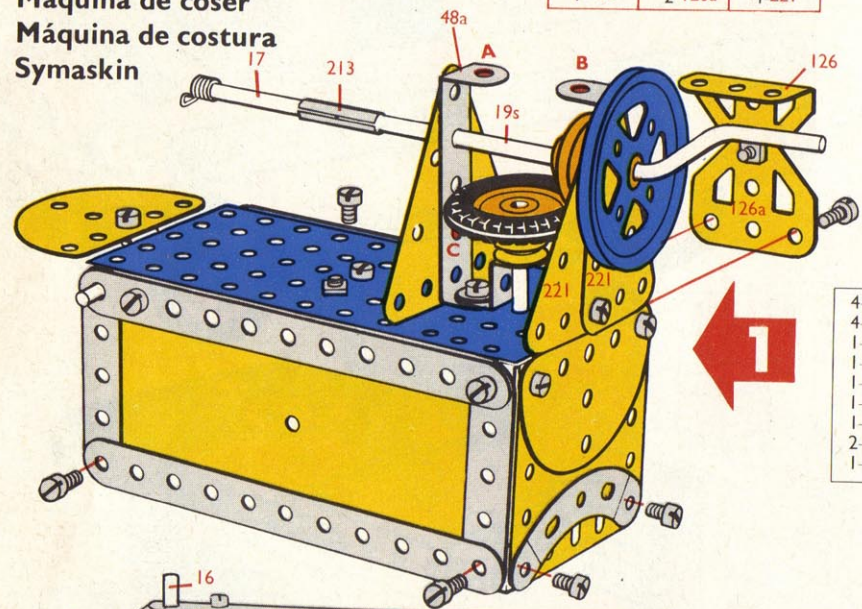
6- 2	2-190
1-18b	2-191
31-37a	2-192
31-37b	2-194
1- 90a	2-194a
1-126a	1-212
2-189	1-214



# 4.12.

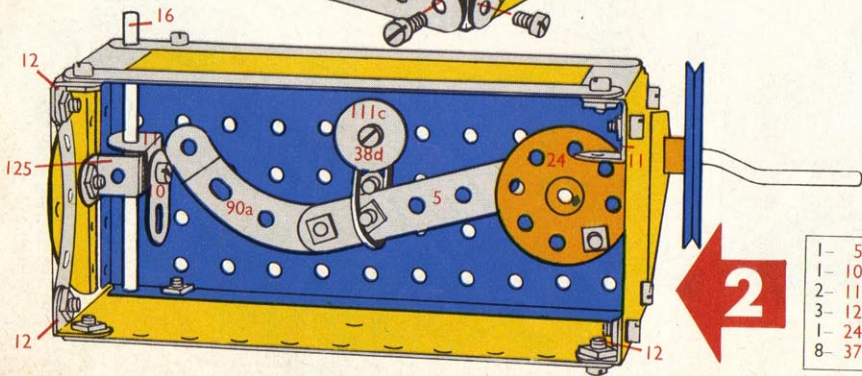
**Sewing Machine**  
**Naaimachine**  
**Machine à coudre**  
**Macchina per cucire**  
**Nähmaschine**  
**Symaskin**  
**Máquina de coser**  
**Máquina de costura**  
**Symaskin**

5- 2	1- 24	1-142c
7- 5	5- 35	1-176
5-10	45-37a	2-188
2- 11	38-37b	1-189
10-12	10-38	1-190
2- 16	1- 38d	2-192
2- 17	2- 48a	1-193
1- 18a	1- 52	2-194
1- 18b	3- 90a	1-199
1- 19s	5-111c	1-212
1- 20a	2-125	1-213
3- 22	2-126	2-214
1- 23	2-126a	4-221



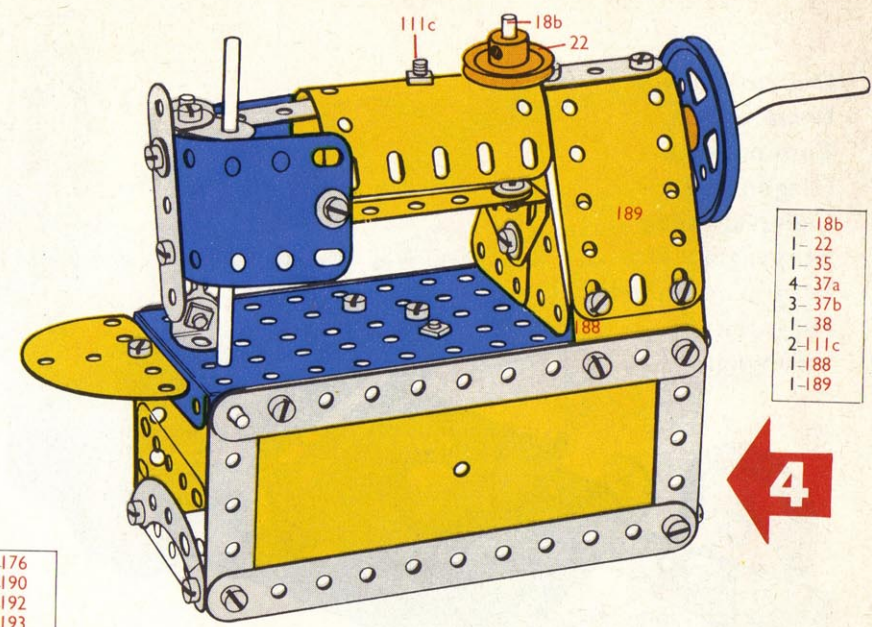
**1**

4- 2	19- 37a	1-176
4- 5	19- 37b	1-190
1-16	2- 48a	2-192
1-17	1- 52	1-193
1-18a	2- 90a	1-213
1-19s	2-125	2-214
1-20a	1-126	4-221
2- 22	1-126a	
1- 23	1-142c	



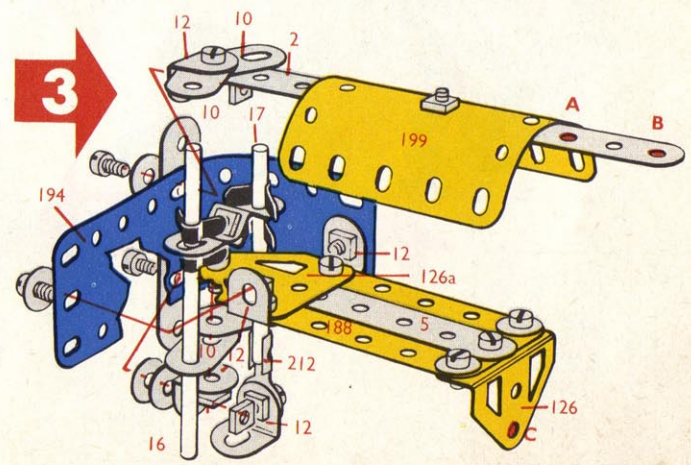
**2**

1- 5	2- 37b
1-10	2- 38
2- 11	1- 38d
3- 12	1- 90a
1- 24	4-111c
8- 37a	1-186



**4**

1-18b
1-22
1-35
4-37a
3-37b
1-38
2-11c
1-188
1-189



**3**

1- 2
2- 5
4-10
7-12
1-16
1-17
4-35
14-37a
14-37b
7-38
1-126
1-126a
1-188
2-194
1-199
1-212

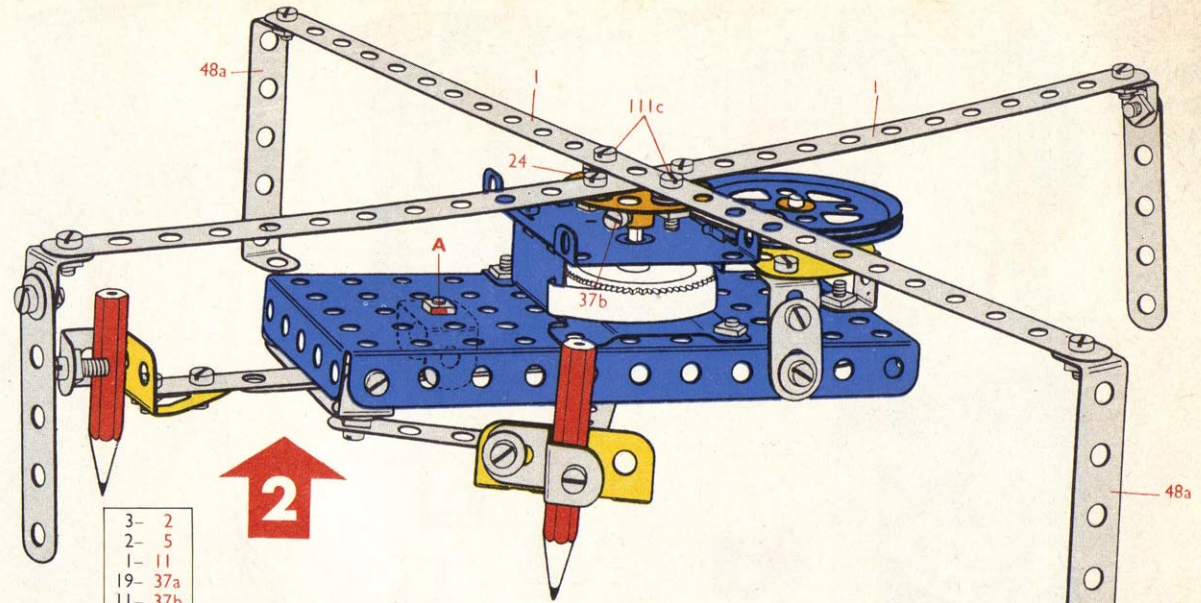


# 4.14.

Meccanograph  
 Meccanograaf  
 Mécanographe  
 Meccanografo  
 "Meccanograph"  
 Mecanografo  
 Meccanograf

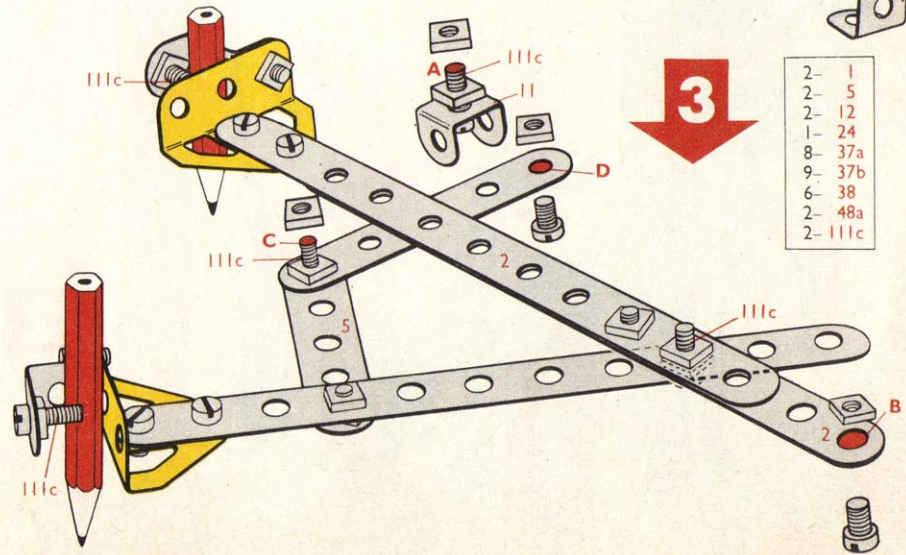
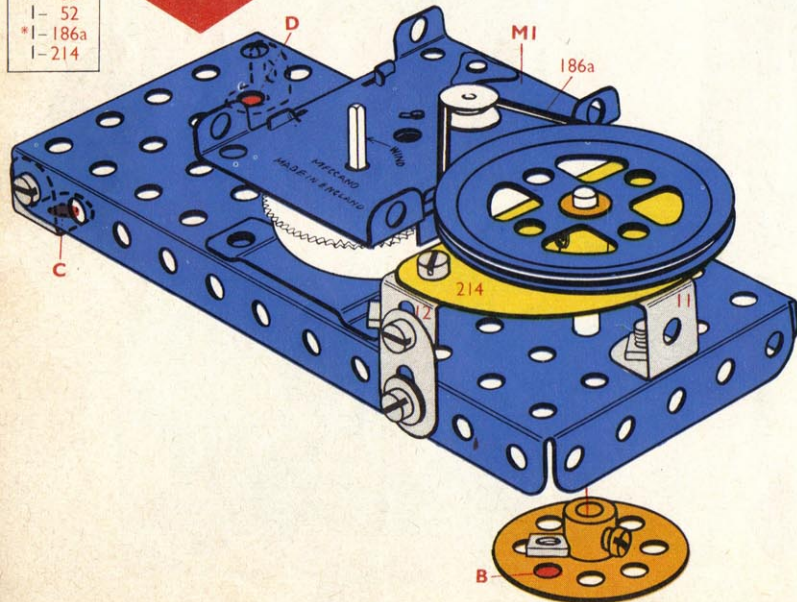
2-	1	32-	37b
3-	2	10-	38
4-	5	2-	48a
2-	10	1-	52
2-	11	6-	111c
6-	12	2-	125
1-	18a	2-	126
1-	20a	*1-	186a
2-	24	1-	214
39-	37a	*1-	M1

\* Not included in set



3-	2
2-	5
1-	11
19-	37a
11-	37b
2-	38
4-	111c
2-	125
2-	126

2-	10
1-	11
4-	12
1-	18a
1-	20a
1-	24
12-	37a
12-	37b
2-	38
1-	52
*1-	186a
1-	214



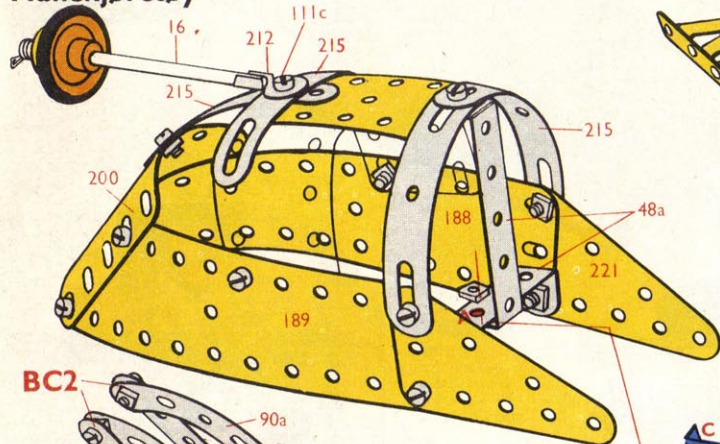
2-	1
2-	5
2-	12
1-	24
8-	37a
9-	37b
6-	38
2-	48a
2-	111c



**4.15.**  
**Lunar Vehicle**  
**Maanvoertuig**  
**Véhicule lunaire**  
**Veicolo lunare**  
**Mondfahrzeug**  
**Månfordon**  
**Vehículo lunar**  
**Veículo lunar**  
**Månekjøretøy**

2- 1	2- 24	1-155
6- 2	5- 35	1-176
8- 5	72- 37a	* 1-186a
1- 11	47- 37b	* 1-186b
4- 12	6- 38	1-188
1- 15b	2- 48a	2-189
2- 16	1- 57c	2-193
2- 17	4- 90a	1-200
1- 20a	3-111c	1-212
4- 22	1-125	4-215
2- 22a	1-126	3-221
1- 23	1-126a	* 1-M1
* 1- 23a	4-142c	

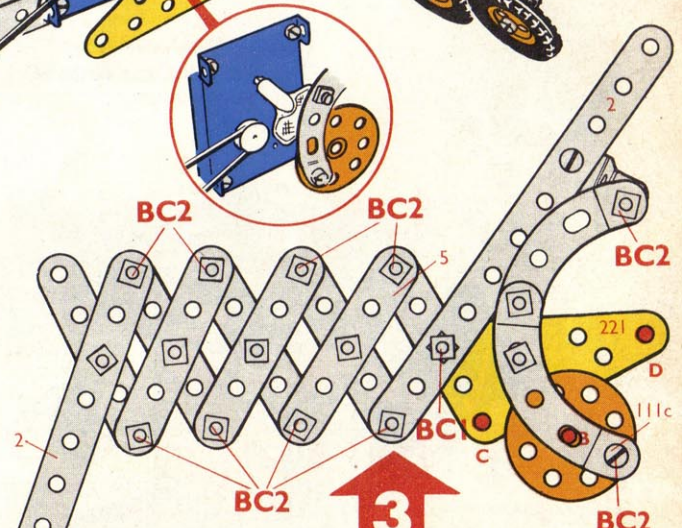
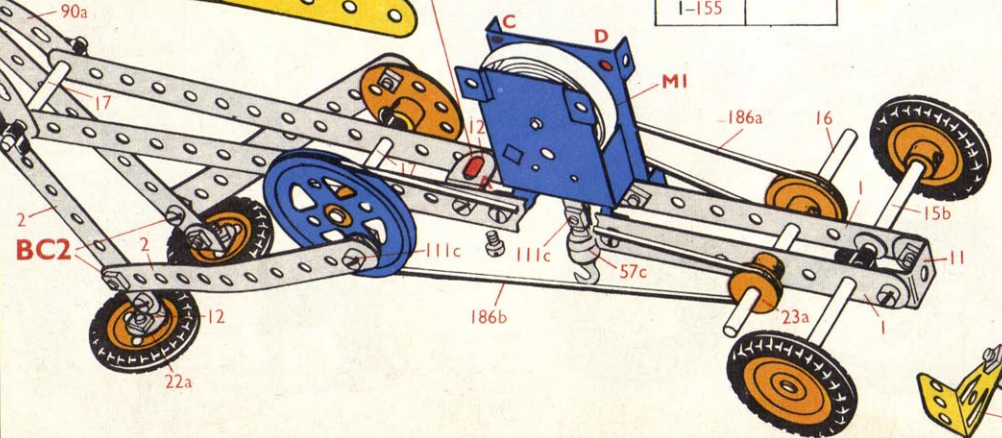
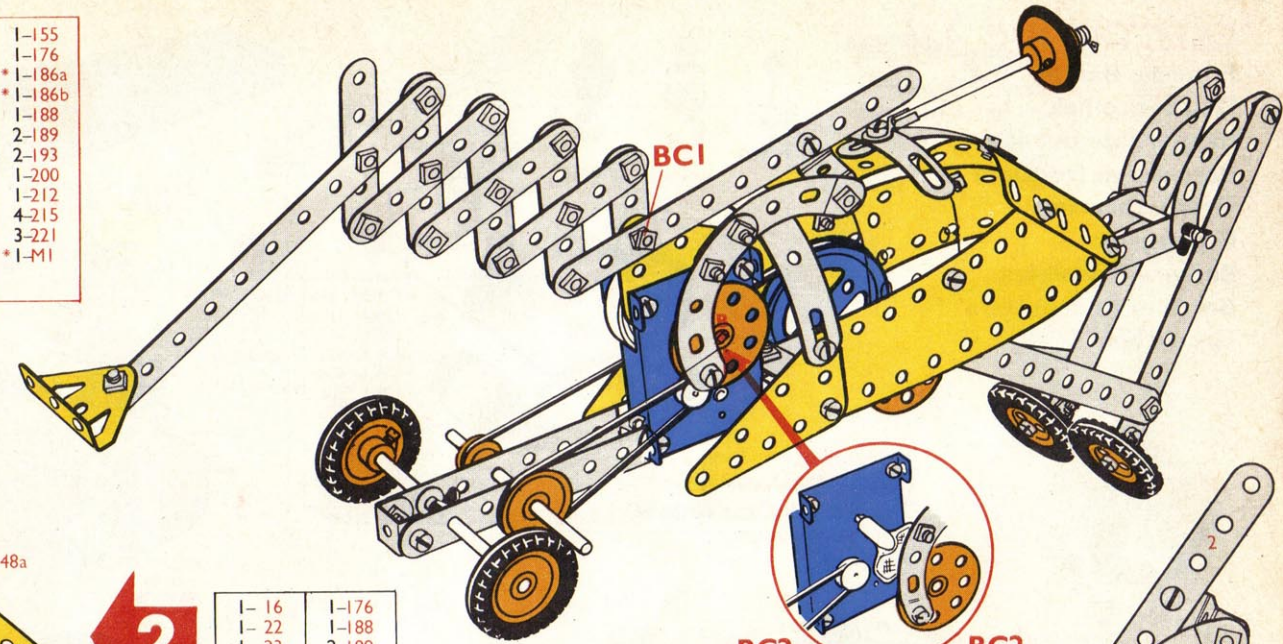
\* Not included in set



2- 1	1- 24
4- 2	5- 35
1- 11	24- 37a
3- 12	16- 37b
1- 15b	6- 38
1- 16	1- 57c
2- 17	2- 90a
1- 20a	2-111c
3- 22	4-142c
2- 22a	* 1-186a
* 1- 23a	* 1-186b



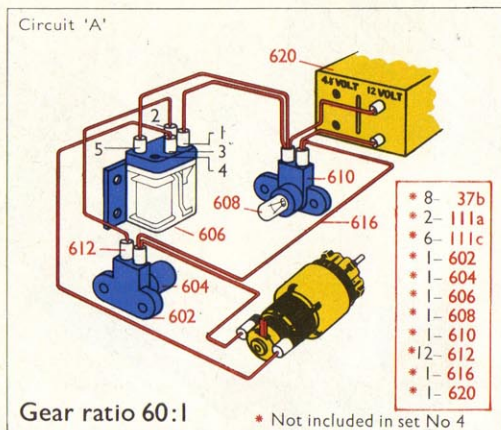
1- 16	1-176
1- 22	1-188
1- 23	2-189
13- 37a	2-193
12- 37b	1-200
2- 48a	1-212
1-111c	4-215
1-126a	2-221
1-155	



2- 2
8- 5
1- 12
1- 24
35- 37a
19- 37b
2- 90a
1-125
1-126
1-221

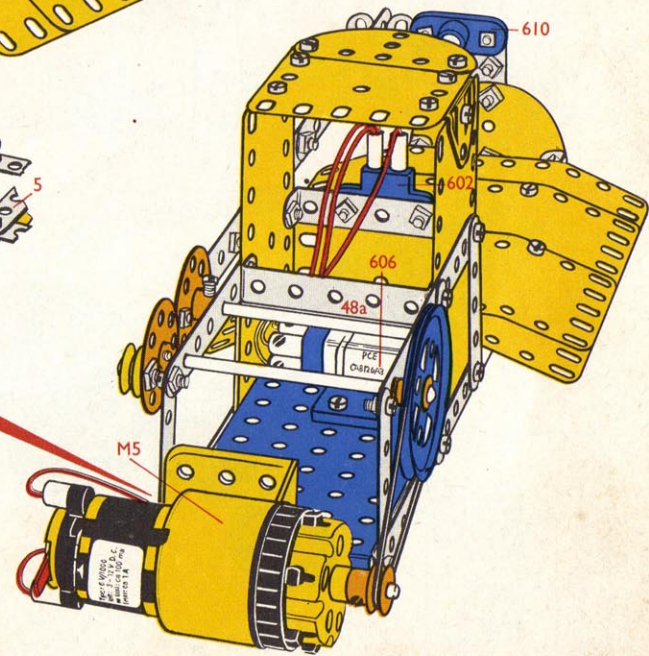
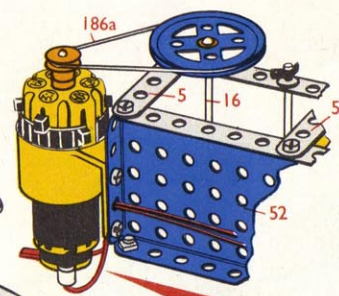
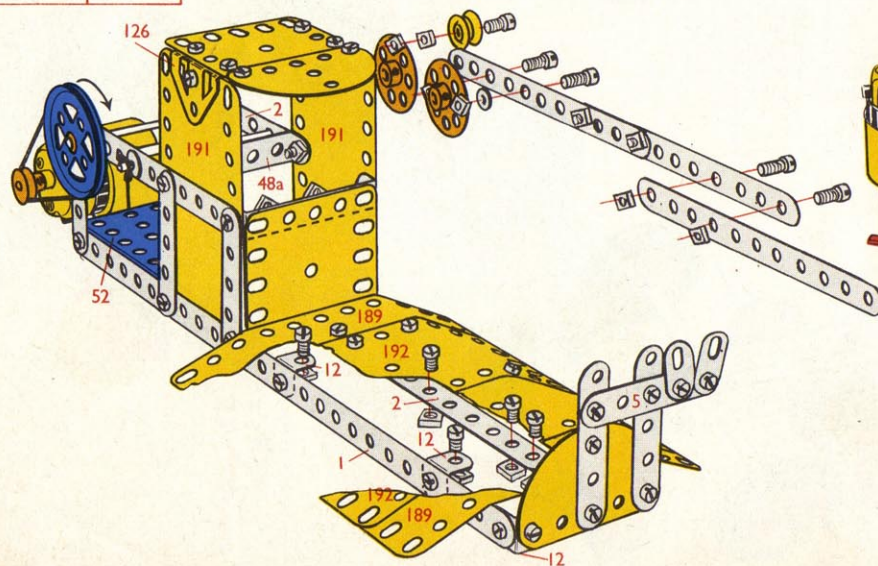
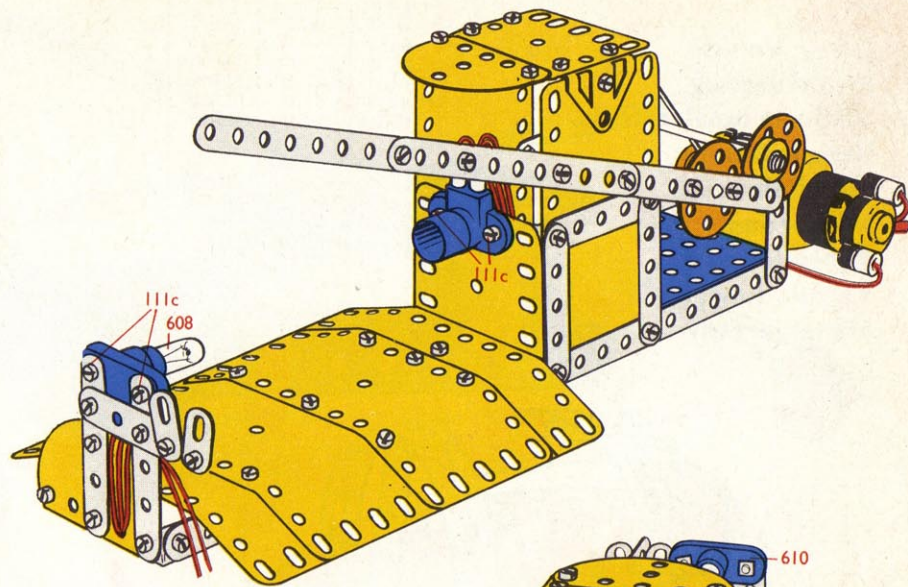
# ELECTRONIC 4.16

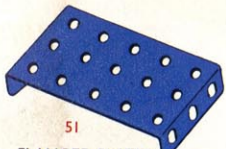
Frontier Barrier  
 Douane-tolhek  
 Barrière de douane  
 Barriera di frontiera  
 Grenzschanke  
 Granssparr  
 Barrera fronteriza  
 Barreira de fronteira  
 Grensebom



\*Not included in set 4

2- 1	2- 24	*1- 186a
6- 2	1- 35	2- 189
9- 5	56- 37a	2- 190
2- 10	55- 37b	2- 191
6- 12	5- 38	2- 192
2- 16	2- 48a	2- 214
1- 20a	1- 52	*1- M5
1- 23	1- 111c	
*1- 23a	2- 126	

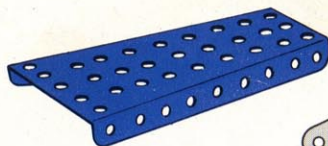




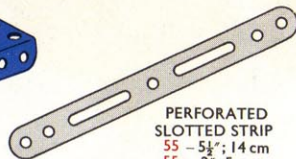
**51**  
**FLANGED PLATES**  
 51 -  $2\frac{1}{2}'' \times 1\frac{1}{2}''$ ; 60 x 38 mm  
 52 -  $5\frac{1}{2}'' \times 2\frac{1}{2}''$ ; 14 x 6 cm  
 53 -  $3\frac{1}{2}'' \times 2\frac{1}{2}''$ ; 9 x 6 cm



**52**  
**FLAT PLATES**  
 52a -  $5\frac{1}{2}'' \times 3\frac{1}{2}''$ ; 14 x 9 cm  
 53a -  $4\frac{1}{2}'' \times 2\frac{1}{2}''$ ; 11 x 6 cm



**54** -  $4\frac{1}{2}''$ ; 115 mm



**PERFORATED SLOTTED STRIP**  
 55 -  $5\frac{1}{2}''$ ; 14 cm  
 55a - 2"; 5 cm



**HOOK**  
 57b



**HOOK**  
 57c



**WIRE HOOK**  
 57d



**58** **SPRING CORD** - 40"; 1 metre



**COLLAR WITH SCREW**  
 59



**COUPLING SCREW FOR 58**  
 58a



**HOOK FOR 58**  
 58b



**WINDMILL SAIL**  
 61



**62**  
**CRANK**  
 62a **THREADED CRANK**



**DOUBLE ARM CRANK**  
 62b



**COUPLING**  
 63



**63b** **STRIP COUPLING**



**THREADED COUPLING**  
 63c



**63d** **SHORT COUPLING**



**THREADED BOSS**  
 64



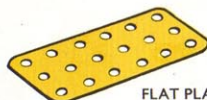
**CENTRE FORK**  
 65



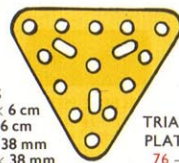
**SET SCREW**  
 69 -  $\frac{3}{8}''$ ; 4 mm



**GRUB SCREWS**  
 69a -  $\frac{3}{8}''$ ; 4 mm  
 69b -  $\frac{3}{8}''$ ; 5 mm  
 69c -  $\frac{3}{8}''$ ; 3 mm



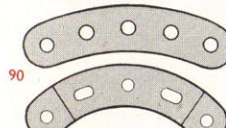
**FLAT PLATES**  
 70 -  $5\frac{1}{2}'' \times 2\frac{1}{2}''$ ; 14 x 6 cm  
 72 -  $2\frac{1}{2}'' \times 2\frac{1}{2}''$ ; 6 x 6 cm  
 73 -  $3'' \times 1\frac{1}{2}''$ ; 75 x 38 mm  
 74 -  $1\frac{1}{2}'' \times 1\frac{1}{2}''$ ; 38 x 38 mm



**TRIANGULAR PLATES**  
 76 -  $2\frac{1}{2}''$ ; 6 cm  
 77 - 1"; 25 mm



**SCREWED RODS**  
 78 -  $1\frac{1}{2}''$ ; 29 cm  
 79 - 8"; 20 cm  
 79a - 6"; 15 cm  
 80 - 5"; 12 x 1 cm  
 80a -  $3\frac{1}{2}''$ ; 9 cm  
 80b -  $4\frac{1}{2}''$ ; 11 x 1 cm  
 80c - 3"; 7 x 1 cm  
 81 - 2"; 5 cm  
 82 - 1"; 25 mm



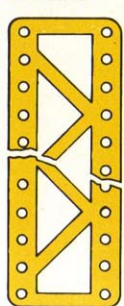
**90**  
**90a** **CURVED STRIP**  
 89 -  $5\frac{1}{2}''$ ; 14 cm  
 90 -  $2\frac{1}{2}''$ ; 6 cm  
**CURVED STRIP STEPPED**  
 89a -  $3''$ ;  $7\frac{1}{2}''$  cm  
 89b - 4"; 10 cm  
 90a -  $2\frac{1}{2}''$ ; 6 cm



**SPROCKET CHAIN**  
 94 - 40"; 1 metre



**SPROCKET WHEELS**  
 95 -  $2''$ ; 5 cm  
 95a -  $1\frac{1}{2}''$ ; 38 mm  
 95b -  $3''$ ; 75 mm  
 96 - 1"; 25 mm  
 96a -  $\frac{3}{4}''$ ; 19 mm



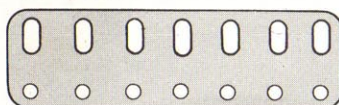
**HEALD FOR LOOM**  
 101



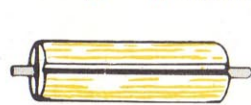
**SINGLE BENT STRIP**  
 102

**BRACED GIRDERS**

97 -  $3\frac{1}{2}''$ ; 9 cm  
 99 -  $12\frac{1}{2}''$ ; 32 cm  
 99a -  $9\frac{1}{2}''$ ; 24 cm  
 99b -  $7\frac{1}{2}''$ ; 19 cm  
 100 -  $5\frac{1}{2}''$ ; 14 cm



**FLAT GIRDERS**  
 103 -  $5\frac{1}{2}''$ ; 14 cm  
 103a -  $9\frac{1}{2}''$ ; 24 cm  
 103b -  $12\frac{1}{2}''$ ; 32 cm  
 103c -  $4\frac{1}{2}''$ ; 11 x 1 cm  
 103d -  $3\frac{1}{2}''$ ; 9 cm  
 103e -  $3''$ ; 7 x 1 cm  
 103f -  $2\frac{1}{2}''$ ; 6 cm  
 103g - 2"; 5 cm  
 103h -  $1\frac{1}{2}''$ ; 38 mm  
 103k -  $7\frac{1}{2}''$ ; 19 cm



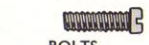
**WOOD ROLLER**  
 106



**FACE PLATE**  
 109 -  $2\frac{1}{2}''$ ; 6 cm



**RACK STRIPS**  
 110 -  $3\frac{1}{2}''$ ; 9 cm  
 110a -  $6\frac{1}{2}''$ ; 16 x 1 cm



**BOLTS**  
 111 -  $\frac{3}{8}''$ ; 19 mm  
 111a -  $\frac{1}{2}''$ ; 12 mm  
 111c -  $\frac{3}{8}''$ ; 9 x 1 mm  
 111d -  $1\frac{1}{8}''$ ; 28 x 1 mm



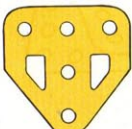
**CONE PULLEY**  
 123 -  $1\frac{1}{2}'' \times 1'' \times \frac{3}{8}''$ ;  
 32 x 25 x 19 mm



**REVERSED ANGLE BRACKETS**  
 124  
 125 -  $1''$ ; 25 mm  
 12mm



**TRUNNION**  
 126



**FLAT TRUNNION**  
 126a



**BELL CRANK**  
 128



**ECCENTRIC TRIPLE THROW**  
 130 -  $\frac{1}{4}'' \times \frac{3}{8}'' \times \frac{1}{2}''$ ;  
 6 x 9 x 12 mm



**ECCENTRIC SINGLE THROW**  
 130a -  $\frac{1}{4}''$ ; 6 mm



**CAM**  
 131



**HINGE**  
 114



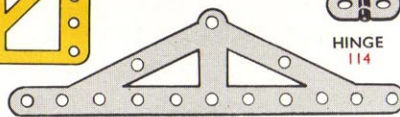
**115a**  
**THREADED PINS**  
 115 -  $\frac{3}{8}''$ ; 15 mm  
 115a long.  $1\frac{1}{8}''$ ; 34 mm



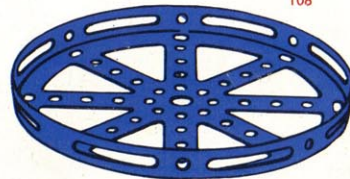
**116a**  
**FORK PIECE LARGE**



**116a**  
**FORK PIECE SMALL**



**GIRDER FRAME**  
 113



**HUB DISC**  
 118 -  $5\frac{1}{2}''$ ; 14 cm



**COMPRESSION SPRING**  
 120b -  $\frac{7}{8}''$ ; 14 mm



**LOADED SACK**  
 122



**CRANK SHAFT**  
 134 - 1"; 25 mm



**HANDRAIL SUPPORT COUPLING**  
 136



**WHEEL FLANGE**  
 137



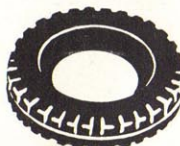
**SHIP'S FUNNEL**  
 138



**FLANGED BRACKET**  
 139 (right)  
 139a (left)



**UNIVERSAL COUPLING**  
 140



**MOTOR TYRES**  
 142a - 2"; 5 cm  
 142b - 3"; 7 x 1 cm  
 142c - 1"; 25 mm  
 142d -  $1\frac{1}{2}''$ ; 38 mm



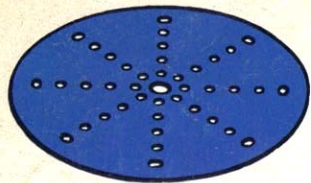
**CIRCULAR GIRDER**  
 143 -  $5\frac{1}{2}''$ ; 14 cm



**DOG CLUTCH**  
 144



**CIRCULAR STRIP**  
 145 -  $7\frac{1}{2}''$ ; 19 cm



**CIRCULAR PLATES**  
146a - 4"; 10 cm  
146 - 6"; 15 cm



**PAWL WITH PIVOT BOLT & NUTS**  
147



**PAWL**  
147a



**PIVOT BOLT**  
147b



**147c PAWL WITHOUT BOSS**



**RATCHET WHEEL**  
148



**PULLEY BLOCKS**  
153 TRIPLE  
151 SINGLE



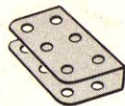
**CORNER ANGLE BRACKET**  
154a - 1/2"; 12 mm (right)  
154b - 1/2"; 12 mm (left)



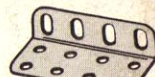
**RUBBER RING**  
155 - 1"; 25 mm



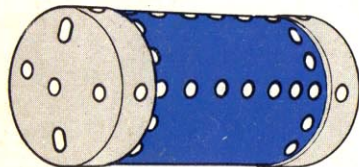
**FAN**  
157 - 2"; 5 cm



**CHANNEL BEARING**  
160 - 1 1/2" x 1" x 1/2";  
38 x 25 x 12 mm



**GIRDER BRACKET**  
161 - 2" x 1" x 1/2";  
50 x 25 x 12 mm



**BOILER**  
162 BOILER COMPLETE - 5" x 2 1/2"; 12 1/2 x 5 cm  
162a BOILER END - 2 1/8" x 3/4"; 50 x 19 mm



**SLEEVE PIECE**  
163 - 1 1/2" x 1 1/2";  
38 x 17 mm



**CHIMNEY ADAPTOR**  
164 - 3/4" x 1/2";  
16 x 12 mm



**SWIVEL BEARING**  
165



**END BEARING**  
166



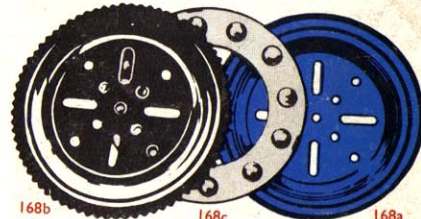
**LARGE TOOTHED QUADRANT PINION**  
167c



**FLANGED RING**  
167b - 9 3/8"; 25 cm



**LARGE TOOTHED QUADRANT**  
167a



**168 BALL THRUST BEARING COMPLETE** 4"; 10 cm  
168a AND 168b BALL THRUST RACES  
168c BALL CRUST



**168d BALL**  
3/8"; 9 1/2 mm



**173a ADAPTOR FOR SCREWED ROD**



**171 SOCKET COUPLING**



**176 ANCHORING SPRING**



**175 FLEXIBLE COUPLING UNIT**



**179 ROD SOCKET**



**GEAR RING**  
180 - 3 1/2"; 9 cm



**STEERING WHEELS**  
185 - 1 1/2"; 4 1/2 cm  
185a - 2 1/2"; 60 mm



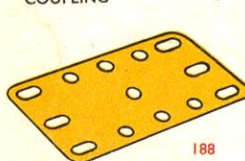
**DRIVING BANDS**  
light 186 - 2 1/2"; 6 cm 186c - 10"; 25 cm  
heavy 186a - 6"; 15 cm 186d - 15"; 37 1/2 cm  
186b - 10"; 25 cm 186e - 20"; 50 cm



**ROAD WHEELS**  
187 - 2 1/2"; 60 mm  
187b - 4 1/2"; 108 mm



**CONICAL DISC**  
187a - 1 3/8"; 47 mm

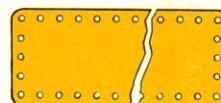


**FLEXIBLE PLATES**  
188 - 2 1/2" x 1 1/2"; 60 x 38 mm  
189 - 3 1/2" x 1 1/2"; 140 x 38 mm  
190 - 2 1/2" x 2 1/2"; 6 x 6 cm  
190a - 2 1/2" x 2 1/2"; 9 x 6 cm  
191 - 3 1/2" x 2 1/2"; 11 1/2 x 6 cm  
192 - 5 1/2" x 2 1/2"; 14 x 6 cm

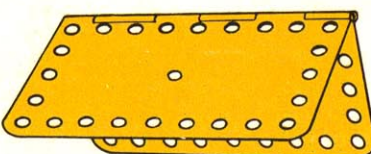
**TRANSPARENT PLATES**  
193 - 2 1/2" x 1 1/2"; 60 x 38 mm  
193a - 2 1/2" x 2 1/2"; 60 x 60 mm

**193b - 3 1/2" x 2 1/2"; 90 x 60 mm**  
**193c - 4 1/2" x 2 1/2"; 115 x 60 mm**  
**193d - 5 1/2" x 1 1/2"; 140 x 38 mm**  
**193e - 5 1/2" x 2 1/2"; 140 x 60 mm**

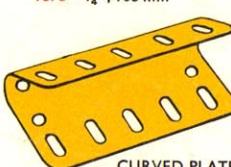
**BLUE PLASTIC PLATES**  
194 - 2 1/2" x 1 1/2"; 60 x 38 mm  
194a - 2 1/2" x 2 1/2"; 60 x 60 mm  
194b - 3 1/2" x 2 1/2"; 90 x 60 mm  
194c - 4 1/2" x 2 1/2"; 115 x 60 mm  
194d - 5 1/2" x 1 1/2"; 140 x 38 mm  
194e - 5 1/2" x 2 1/2"; 140 x 60 mm



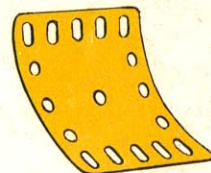
**STRIP PLATES**  
195 - 7 1/2" x 2 1/2"; 19 x 6 cm  
196 - 9 1/2" x 2 1/2"; 24 x 6 cm  
197 - 12 1/2" x 2 1/2"; 32 x 6 cm



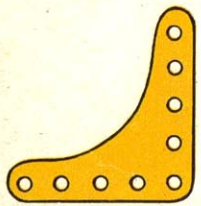
**HINGED FLAT PLATE**  
198 - 4 1/2" x 2 1/2"; 11 1/2 x 6 cm



**CURVED PLATE U SECTION**  
199 - 2 1/2" x 2 1/2" x 3/8";  
60 x 60 x 7 mm



**CURVED PLATE**  
200 - 2 1/2" x 2 1/2" x 1 1/8";  
60 x 60 x 43 mm



**FLEXIBLE GUSSET PLATE**  
201 - 2 1/2" x 2 1/2";  
60 x 60 mm



**HELICAL GEARS**  
211a - 1/2"; 12 mm  
211b - 1 1/2"; 38 mm  
can only be used together.



**212 ROD AND STRIP CONNECTOR**



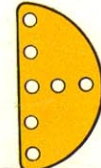
**212a ROD AND STRIP CONNECTOR RIGHT ANGLE**



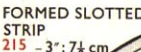
**213 ROD CONNECTORS**



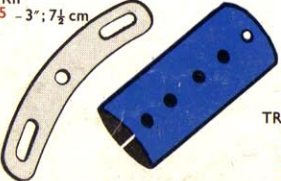
**213b**



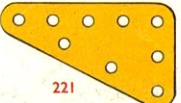
**SEMI-CIRCULAR PLATE**  
214 - 2 1/2"; 6 cm



**FORMED SLOTTED STRIP**  
215 - 3"; 7 1/2 cm



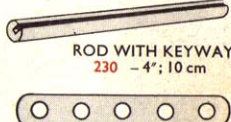
**CYLINDER**  
216 - 2 1/2" x 1 1/2";  
60 x 30 mm



**TRIANGULAR FLEXIBLE PLATES**  
221 - 2 1/2" x 1 1/2"; 60 x 38 mm  
222 - 2 1/2" x 2"; 60 x 50 mm  
223 - 2 1/2" x 2 1/2"; 60 x 60 mm  
224 - 3 1/2" x 1 1/2"; 90 x 38 mm  
225 - 3 1/2" x 2"; 90 x 50 mm  
226 - 3 1/2" x 2 1/2"; 90 x 60 mm



**223 KEY BOLT**  
231



**ROD WITH KEYWAY**  
230 - 4"; 10 cm



**NARROW STRIPS**  
235 - 2 1/2" x 1 1/2"; 60 mm x 9 mm  
235a - 3" x 1 1/2"; 75 mm x 9 mm  
235b - 3 1/2" x 1 1/2"; 90 mm x 9 mm  
235d - 4 1/2" x 1 1/2"; 115 mm x 9 mm  
235f - 5 1/2" x 1 1/2"; 140 mm x 9 mm