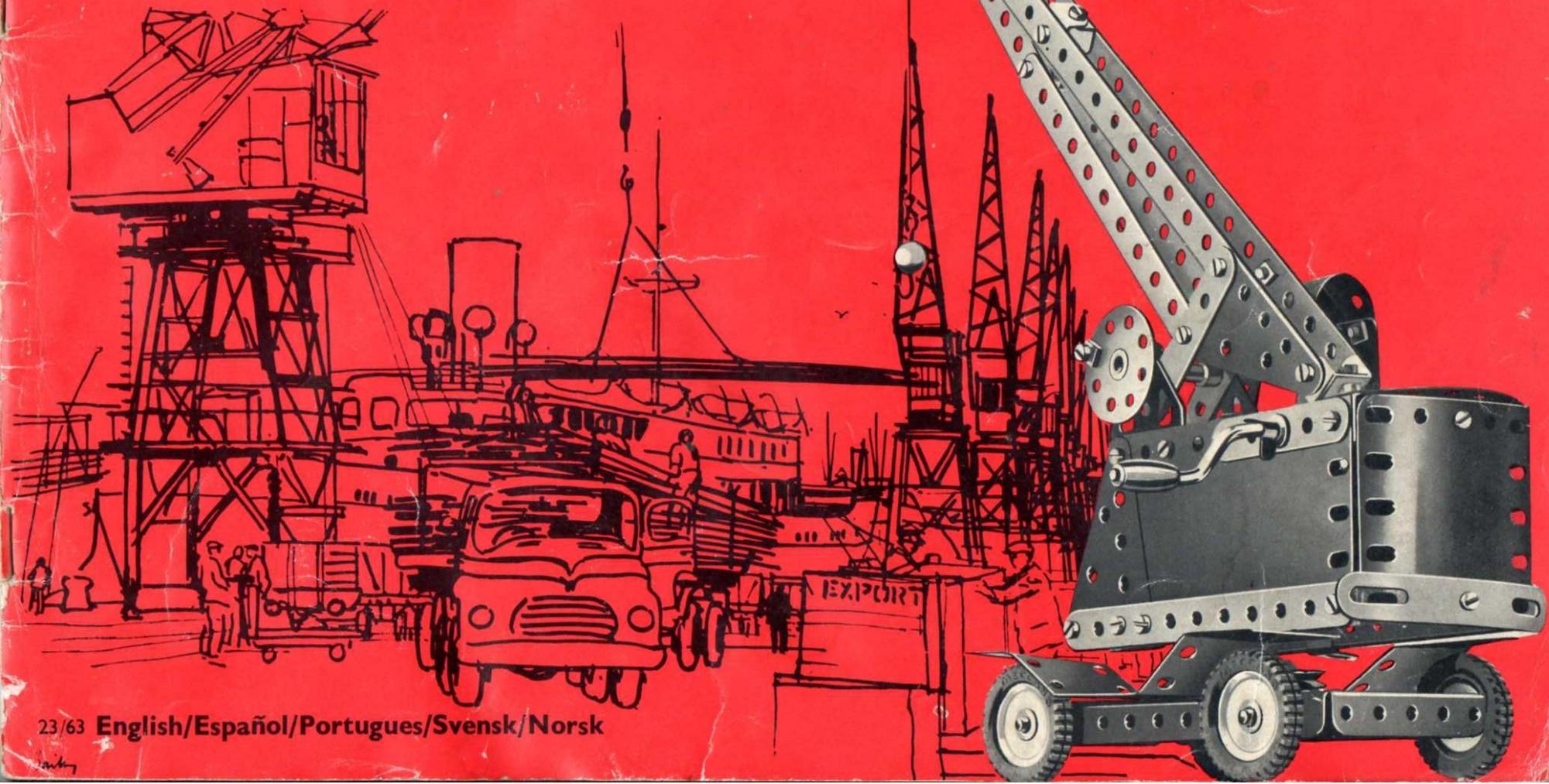


MECCANO®

165
2/3

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23/63 English/Español/Portugues/Svensk/Norsk

How to Use This Book

On the back cover of this Book you will find pictures of the parts in Outfits 2 and 3 together with their names and Part Numbers. Parts used in the assembly of the models shown in this Book generally can be identified by looking at the illustrations, but where the identity of a Part may not be clear, its Part Number is printed in RED on the illustrations.

A list of the Parts needed to build each model also is given. In this list the Part Numbers are printed in RED and quantity required in BLACK.

Some arrangements of Parts are used frequently in model-building. They are called *Basic Meccano Constructions* and are illustrated on pages 15 and 16 of the O/1 Model Book. Each has an identifying Code Mark i.e., BC1, BC2, etc. When one of these Code Marks appears in the illustrations it indicates the principle of construction referred to by the same Code Mark in the O/1 Book.

Some models are constructed in separate units. The points at which these units are bolted together to form the complete model are indicated by red dots. Where red indicating lines pass behind Plates or other parts of a model, they are shown dotted.

Motors also are identified in the illustrations by Code Marks: M1=Meccano Magic Motor; M2=Meccano No. 1 Clockwork Motor; M3=Meccano E15R Electric Motor; M4=Meccano Emebo Electric Motor.

Models for Outfit 2 are shown on pages 1-8; models for Outfit 3 appear on pages 9-24.

Como emplear este Libro

En la cubierta posterior de este libro se hallan las piezas ilustradas de los Equipos Nos. 2 y 3 junto con su nombre y respectivo número. Las piezas usadas en la construcción de los modelos que se ven en este libro pueden reconocerse sencillamente si se estudian las ilustraciones. En caso de que una pieza no pueda reconocerse enseguida, el número se ve en COLORADO en las ilustraciones de modelos.

Se incluye una lista de las piezas que se necesitan para cada modelo. En esta lista el número de las piezas es COLORADO y la cantidad va en número NEGRO. Algunos conjuntos de piezas se emplean una y más veces en toda clase de modelos. Se llaman *Construcciones Básicas Meccano* y se ilustran en las páginas 15 y 16 del Libro de Modelos No. O/1. Cada uno tiene la marca de un Clave especial, por ejemplo: BC1, BC2, etc. Cuando se ve una de estas marcas en las ilustraciones, indica el método de construcción descrito bajo la misma marca en el Libro O/1.

Algunos modelos se construyen en unidades separadas. Los puntos colorados en los dibujos denotan los puntos en los cuales estas unidades se empernan juntas.

Los Motores también se indican en los grabados con las marcas de Clave siguientes:

M1=Motor Meccano Magic; M2=Motor a Resorte Meccano No. 1; M3=Motor Eléctrico Meccano E15R; M4=Motor Eléctrico Emebo.

Modelos para Equipo No. 2—Pág. 1-8. Modelos para Equipo No. 3—Pág. 9-24.

Como usar este Livrete

Na capa de trás deste Livrete, aí encontrará o desenho de todas as peças com nomes e numeros de referencia. As peças usadas na construção dos modelos ilustrados neste livrete podem ser identificadas simplesmente pelas ilustrações, mas quando a identificação de uma peça não é clara o seu número e indicado a VERMELHO no desenho do modelo.

Cada modelo é acompanhado por uma lista de todas as peças necessárias para a sua construção. Nesta lista os números do catalogo das peças são imprimidos a VERMELHO e as quantidades de cada peça a PRETO.

Algunas montagens simples são usadas muitas vezes em todas as especies de modelos. Chamam-se estas *Construções básicas do Meccano* e são ilustradas nas paginas 15 e 16 do Livrete O/1. Cada uma tem um código de identificação, tal como BC1, BC2, etc. Quando se vir um código num desenho, sabe-se que a construção dessa parte do modelo é semelhante ao construção ilustrada no Livrete O/1.

Alguns dos modelos são construídos em unidades separadas. Os pontos nos quais estas unidades são colocadas e aparafusadas juntas para construir o modelo completo são indicados nos desenhos com pontos vermelhos.

O tipo de Motor é indicado nos desenhos por um dos seguintes códigos de identificação.

M1=Motor Meccano Magic; M2=Motor Meccano No. 1 com mecanismo de corda; M3=Motor Meccano Electrico E15R.

Modelos para Estojos 2—pág. 1-8. Modelos para Estojos 3—pág. 9-24.

Att använda denna bok

På bakre omslaget finner Du avbildade delarna i byggglådorna 2 och 3, med beteckning och nummer. Delarnas omvandling för byggandet av modellerna i denna bok kan Du lätt känna igen genom att se på avbildningarna, men där Du inte säkert kan känna igen en viss del är numret tryckt i RÖTT på illustrationen.

Varje modell åtföljes av en lista över alla delar, som behövs för att bygga den. I denna lista är katalognumren tryckta i RÖTT och antalet av varje del som åtgår i SVART.

Några enkla konstruktioner användes gång efter annan i alla slags modeller. Dessa kallas *Meccano grundkonstruktioner* och är avbildade på sidorna 15 och 16 i modellbok O/1. Var och en har ett speciellt kodnummer så som BC1, BC2 o.s.v. När Du t.ex. ser BC1 i en avbildning skall Du veta, att denna sektion bygges som BC1 visar i boken O/1.

Några modeller är konstruerade i separata enheter. Punkterna i vilka dessa enheter sättes samman för att forma en komplett modell visas i ritningarna med röda punkter.

Meccanomotorer är också angivna i ritningarna med ett av följande kodnumren:

M1=Meccano fjädermotor Magisk; M2=Meccano fjädermotor nr. 1; M3=Meccano elektrisk motor; M4=Elektrisk motor Emebo.

Modeller för byggglåda nr. 2 på sidorna 1-8; modeller för byggglåda nr. 3 på sidorna 9-24.

Hvordan denne boken kan brukes

På omslaget bak på denne boken vil du finne bilder av delene i settene 2 og 3 sammen med navn og delnummer. Delene som blir brukt til modell-samlingen som er vist i denne boken, kan i alminnelighet kjennes igjen på illustrasjonene, men hvor du ikke sikkert kan kjenne igjen en viss del, er del-nummeret trykt i RÖDT på tegningen.

En liste over delene som trengs til å bygge hver modell er også med. I denne listen er delnumrene trykt i RÖDT, og antallet som går med er trykt i SORT. Noen konstruksjoner er ofte brukt i modell-byggingen. De blir kalt *Meccano grunnkonstruksjoner* og er vist på sidene 15 og 16 i O/1 modell-boken. Hver har et kodemerke, f.eks. BC1, BC2 o.s.v. Når et av disse kodemerkene forekommer på illustrasjonen, betyr det at konstruksjonsmåten er den samme som vist ved det samme kodemerke i O/1 boken. Noen modeller er konstruert i forskjellige enheter. De punkter som disse blir satt sammen i, for å danne den fullstendige modellen, er vist med røde prikker. Der hvor røde linjer går bak plater eller andre deler på en modell, er de vist ved prikker.

Også motorer blir i illustrasjonene vist ved kode-merker: M1=Meccano Magic Motor; M2=Meccano nr. 1 Urverk motor; M3=Meccano E15R Elektrisk motor; M4=Meccano Elektrisk motor Emebo.

Modeller for byggesett nr. 2 på sidene 1-8; modeller for byggesett nr. 3 på sidene 9-24.

Contents of Outfits 2 and 3

Contenido de los Equipos 2 y 3

Conteúdo dos estojos 2 e 3

Innehåll i byggglådorna 2 och 3

Innhold i sett 2 og 3

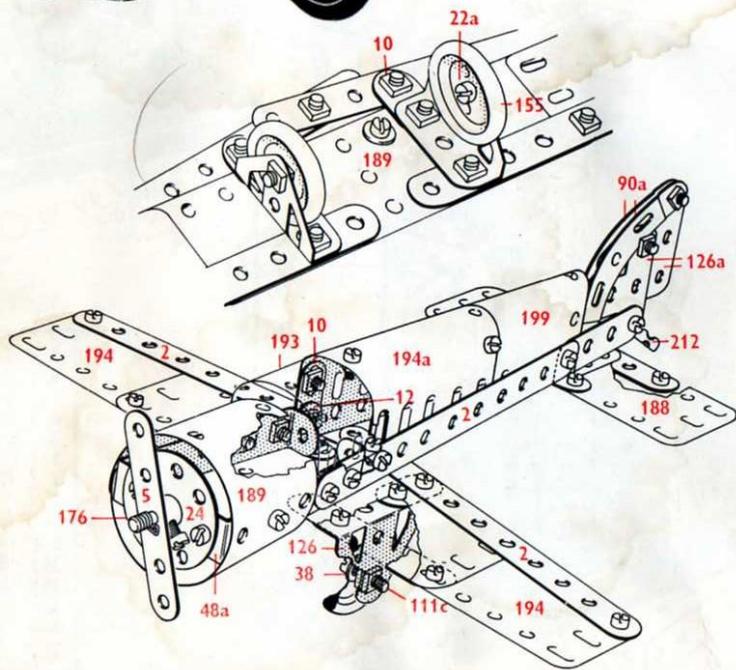
Part No. Pieza No. Peça No. nr.	Outfit Equipo Estajo Byggglåda Byggesett	Part No. Pieza No. Peça No. nr.	Outfit Equipo Estajo Byggglåda Byggesett
	2	3	2
1	—	2	52
2	4	6	57c
5	6	9	90a
10	4	5	111c
11	1	2	125
12	8	10	126
15b	—	2	126a
16	2	3	142c
17	2	2	155
18a	—	1	176
18b	1	1	186
19g	—	1	188
19s	1	—	189
20a	1	1	190
22	4	4	191
22a	2	2	192
23	—	1	193
24	1	2	194
34	2	2	194a
35	6	8	199
36	1	1	200
37a	56	60	212
37b	50	56	213
38	10	10	214
38d	—	2	215
40	1	1	221
48a	2	2	—

2.1 Monoplane/Monoplano
Avião monoplano/Flygplan
Endekket fly

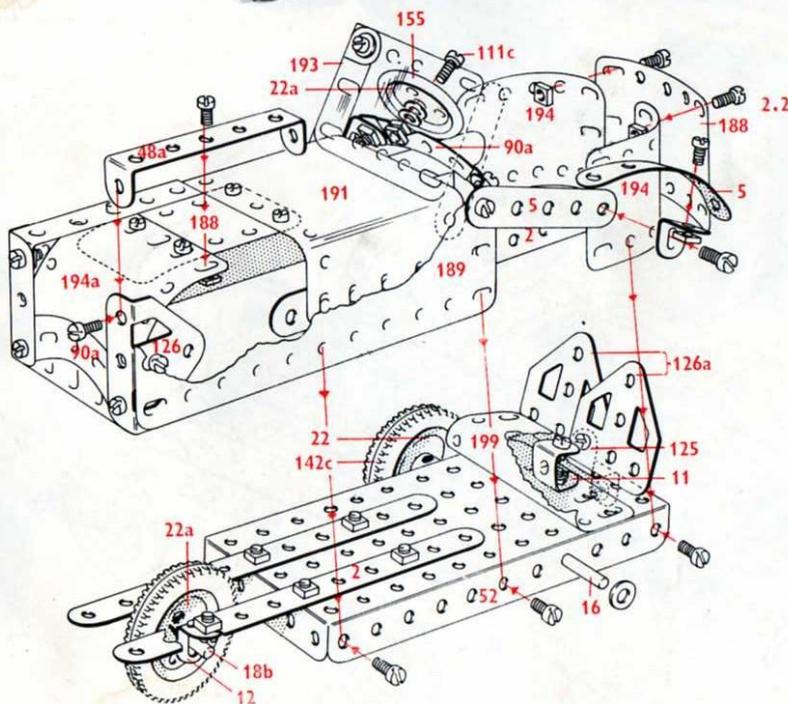


2.1

- 4 - 2
- 6 - 5
- 4 - 10
- 4 - 12
- 1 - 18b
- 2 - 22a
- 1 - 24
- 41 - 37a
- 37 - 37b
- 6 - 38
- 2 - 48a
- 2 - 111c
- 2 - 126
- 2 - 126a
- 2 - 155
- 1 - 176
- 2 - 188
- 2 - 189
- 1 - 193
- 2 - 194
- 1 - 194a
- 1 - 199
- 1 - 212



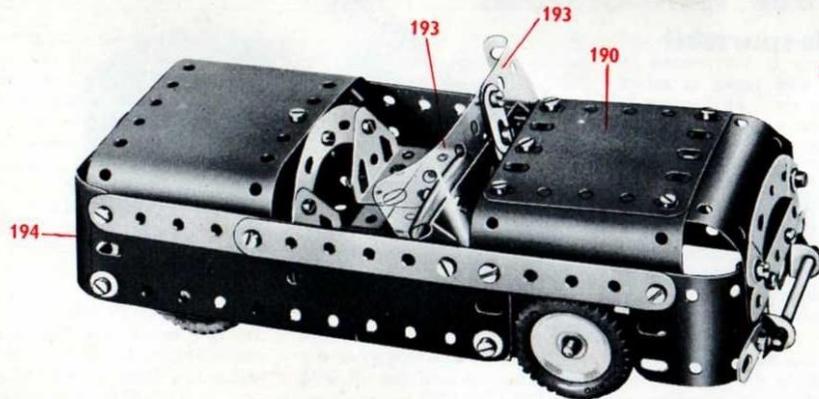
2.2 3-Wheel Sports Car/Coche deportivo
de 3 ruedas/Carro de "sport" de 3 rodas
3 hjulig bil/3-hjuls sportsbil



2.2

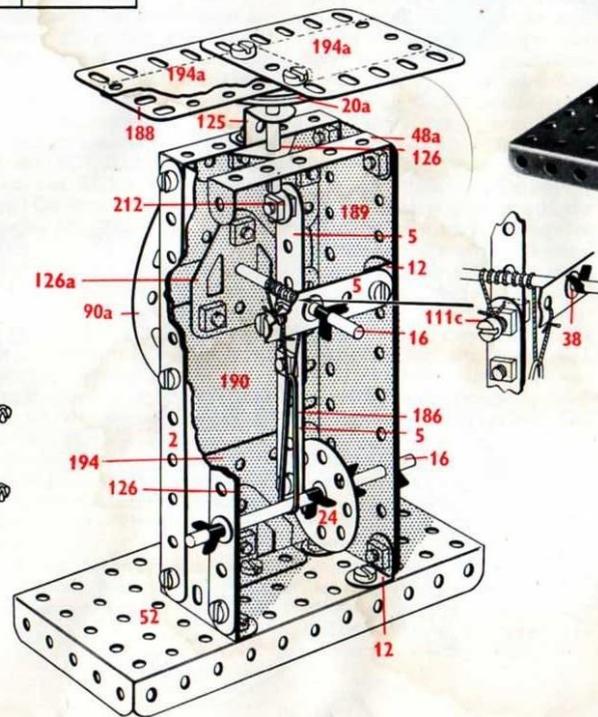
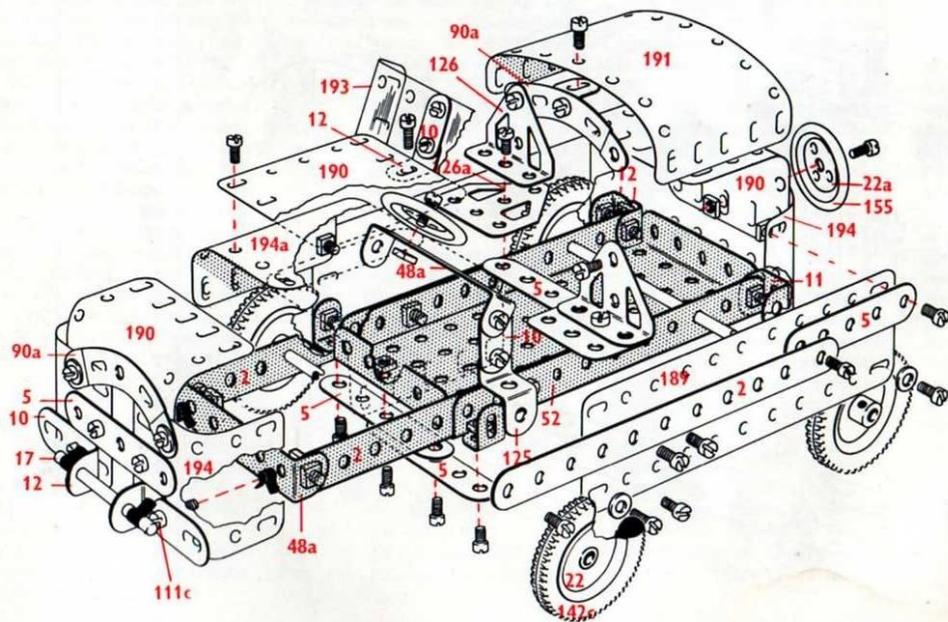
- 4 - 2
- 6 - 5
- 1 - 11
- 8 - 12
- 1 - 16
- 1 - 18b
- 2 - 22
- 2 - 22a
- 2 - 35
- 50 - 37a
- 48 - 37b
- 10 - 38
- 2 - 48a
- 1 - 52
- 2 - 90a
- 1 - 111c
- 1 - 125
- 1 - 126
- 2 - 126a
- 3 - 142c
- 1 - 155
- 2 - 188
- 2 - 189
- 1 - 191
- 1 - 193
- 2 - 194
- 1 - 194a
- 1 - 199

2.3 Sports Car/Automóvil deportivo/Carro de "sport"/Sportbil/Sportsbil



2.3

4	-	2	2	-	90a
6	-	5	4	-	111c
4	-	10	1	-	125
1	-	11	2	-	126
8	-	12	2	-	126a
2	-	16	4	-	142c
1	-	17	2	-	155
4	-	22	2	-	188
2	-	22a	2	-	189
4	-	35	2	-	190
52	-	37a	1	-	191
47	-	37b	2	-	193
10	-	38	2	-	194
2	-	48a	2	-	194a
1	-	52	1	-	199



2.4

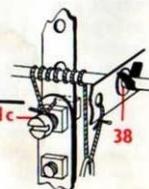
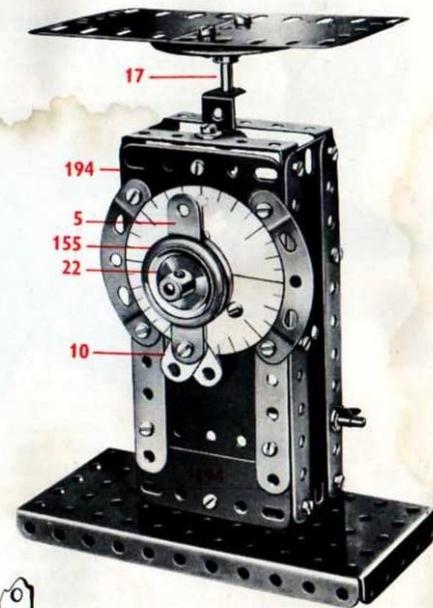
4	-	2	1	-	52
6	-	5	2	-	90a
2	-	10	1	-	111c
6	-	12	1	-	125
2	-	16	2	-	126
1	-	17	1	-	126a
1	-	20a	2	-	155
2	-	22	1	-	186
1	-	24	2	-	188
5	-	35	2	-	189
39	-	37a	1	-	190
35	-	37b	2	-	194
5	-	38	2	-	194a
1	-	40	1	-	212
2	-	48a			

2.4 Letter Balance/Pesa-Cartas

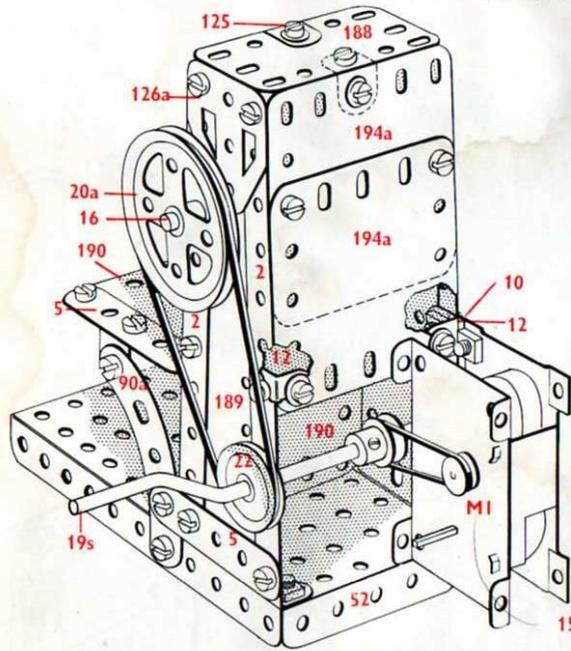
Balança de cartas

Brevvåg

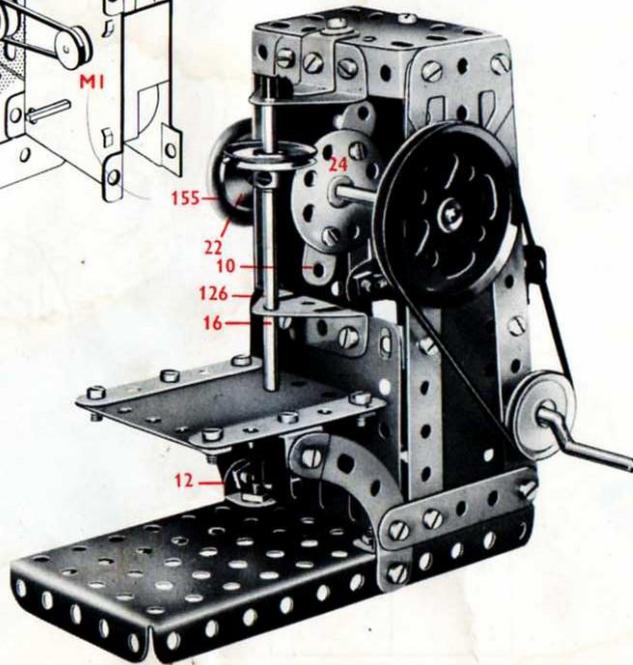
Brev-vekt



2.5 Stamping Mill/Bocarte/Máquina de estampagem Kvarn/Pukkverk

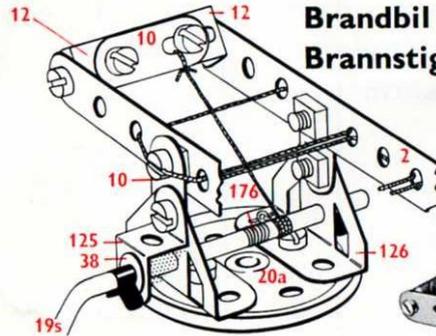


2.5	4 - 2	4 - 38
	6 - 5	2 - 48a
	4 - 10	1 - 52
	1 - 11	2 - 90a
	8 - 12	1 - 125
	2 - 16	2 - 126
	1 - 19s	2 - 126a
	1 - 20a	1 - 155
	4 - 22	1 - 188
	1 - 24	2 - 189
	1 - 35	2 - 190
	42 - 37a	2 - 194a
	42 - 37b	

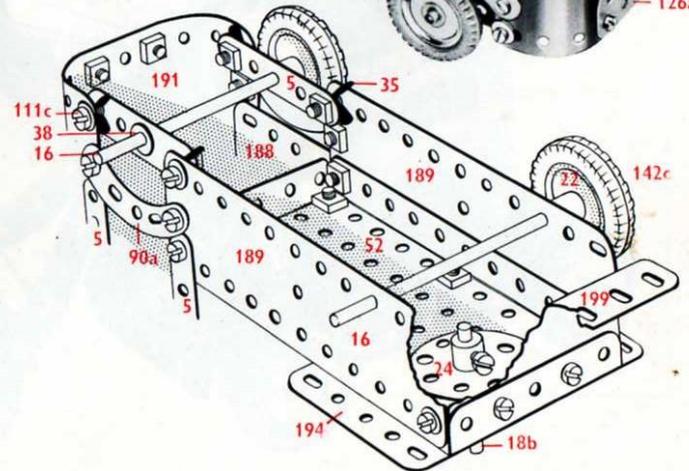
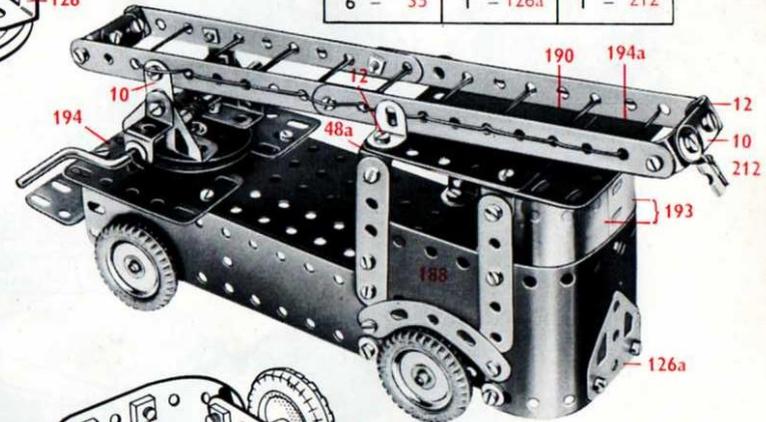


2.6 Fire Escape/Bomba de incendios Bomba de incêndio

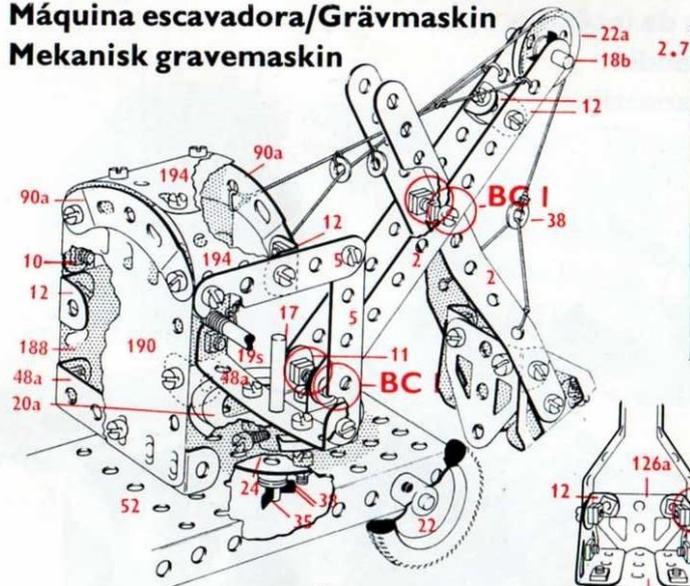
Brandbil Brannstige



2.6	4 - 2	55 - 37a	4 - 142c
	6 - 5	47 - 37b	1 - 176
	4 - 10	9 - 38	2 - 188
	8 - 12	1 - 40	2 - 189
	2 - 16	2 - 48a	1 - 190
	1 - 18b	1 - 52	1 - 191
	1 - 19s	2 - 90a	2 - 193
	1 - 20a	4 - 111c	2 - 194
	4 - 22	1 - 125	1 - 194a
	1 - 24	2 - 126	1 - 199
	6 - 35	1 - 126a	1 - 212

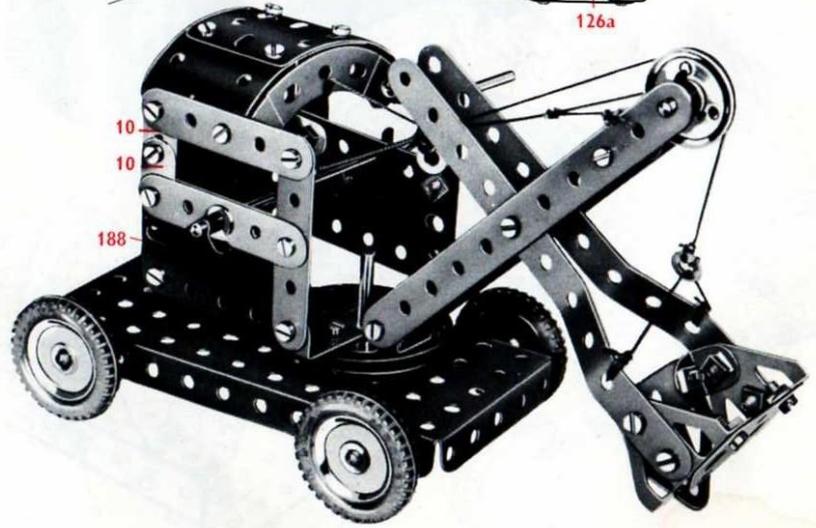
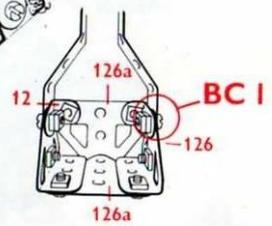


2.7 Mechanical Excavator/Excavadora mecánica Máquina escavadora/Grävmaskin Mekanisk gravemaskin

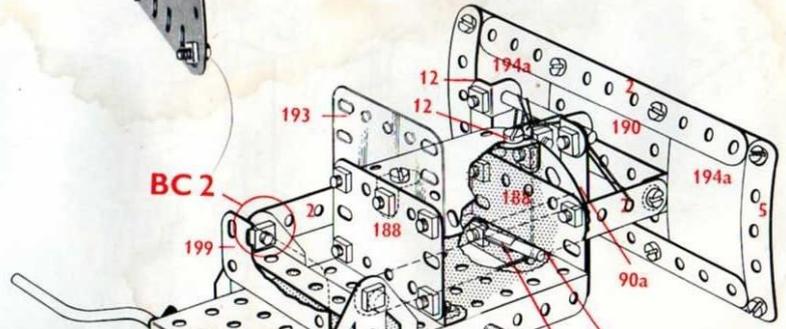
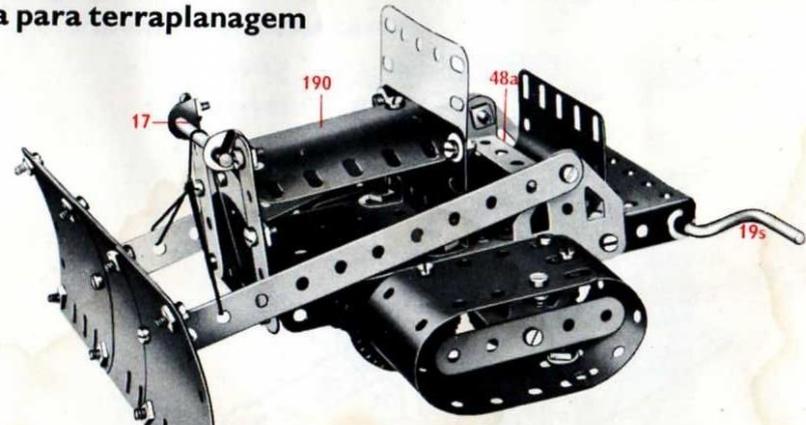


2.7

4 -	2	53 -	37a
6 -	5	47 -	37b
4 -	10	10 -	38
1 -	11	1 -	40
8 -	12	2 -	48a
2 -	16	1 -	52
1 -	17	2 -	90a
1 -	18b	2 -	126
1 -	19s	1 -	126a
1 -	20a	4 -	142c
4 -	22	1 -	176
1 -	22a	2 -	188
1 -	24	1 -	190
5 -	35	2 -	194

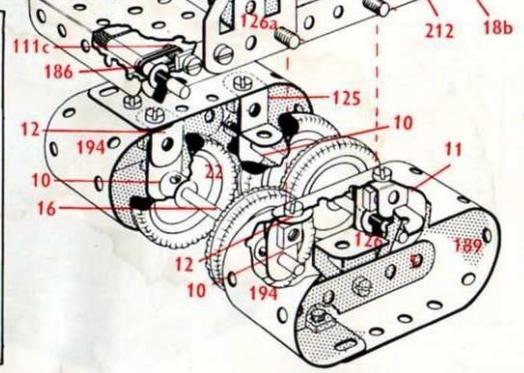


2.8 Bulldozer Escavadora para terraplanagem



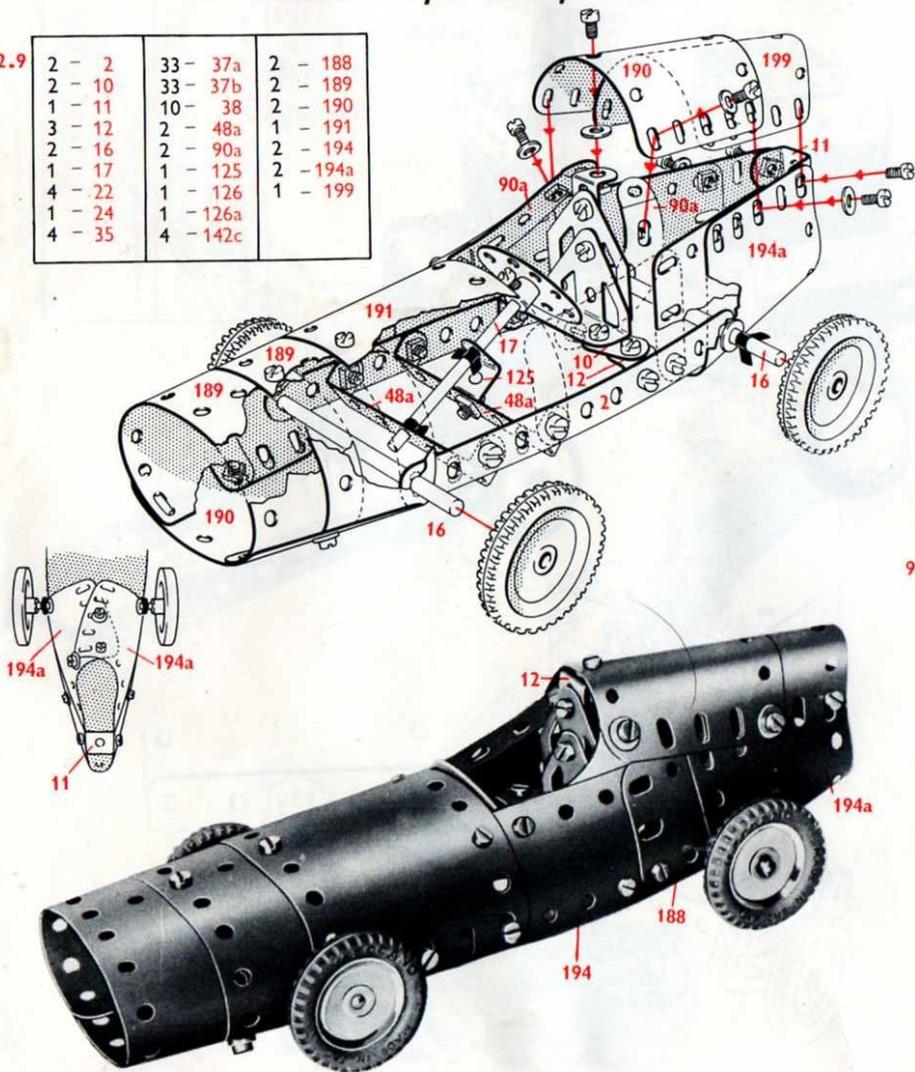
2.8

4 -	2	1 -	52
6 -	5	1 -	90a
4 -	10	3 -	111c
1 -	11	1 -	125
8 -	12	2 -	126
2 -	16	2 -	126a
1 -	17	4 -	142c
1 -	18b	1 -	186
1 -	19s	2 -	188
4 -	22	2 -	189
6 -	35	2 -	190
50 -	37a	1 -	193
45 -	37b	2 -	194
10 -	38	2 -	194a
1 -	40	1 -	199
2 -	48a	1 -	212

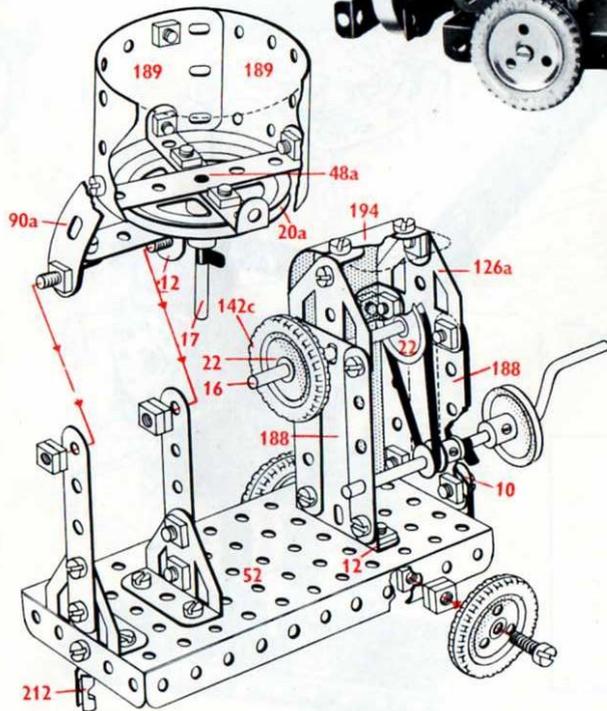
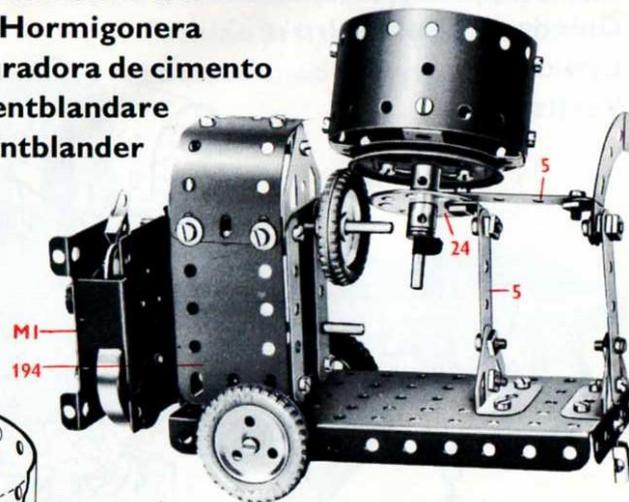


2.9 Racing Car/Automóvil de carrera Carro de corrida/Racerbil/ Racer-bil

2.9	2 - 2	33 - 37a	2 - 188
	2 - 10	33 - 37b	2 - 189
	1 - 11	10 - 38	2 - 190
	3 - 12	2 - 48a	1 - 191
	2 - 16	2 - 90a	2 - 194
	1 - 17	1 - 125	2 - 194a
	4 - 22	1 - 126	1 - 199
	1 - 24	1 - 126a	
	4 - 35	4 - 142c	

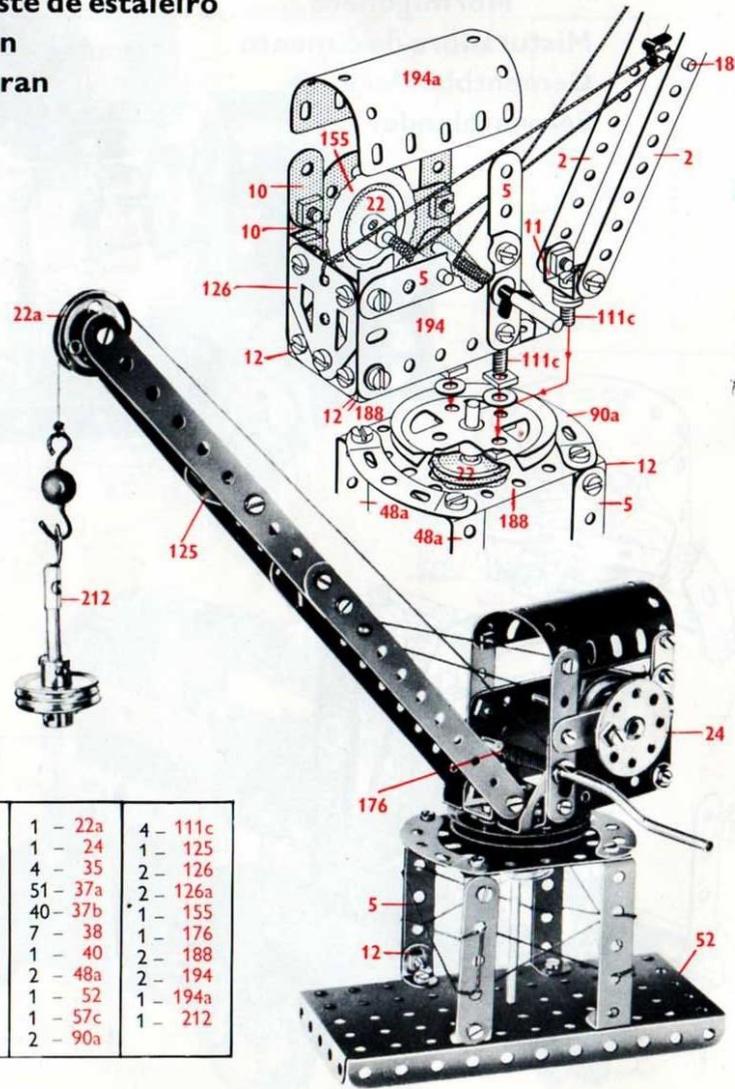


2.10 Cement Mixer Hormigonera Misturadora de cimento Cementblandare Sementblander



2.10	6 - 5	12 - 38
	2 - 10	2 - 48a
	8 - 12	1 - 52
	1 - 16	1 - 90a
	1 - 17	3 - 111c
	1 - 19s	2 - 126
	1 - 20a	2 - 126a
	3 - 22	3 - 142c
	2 - 22a	1 - 186
	1 - 24	2 - 188
	3 - 35	2 - 189
	46 - 37a	2 - 194
	36 - 37b	1 - 212

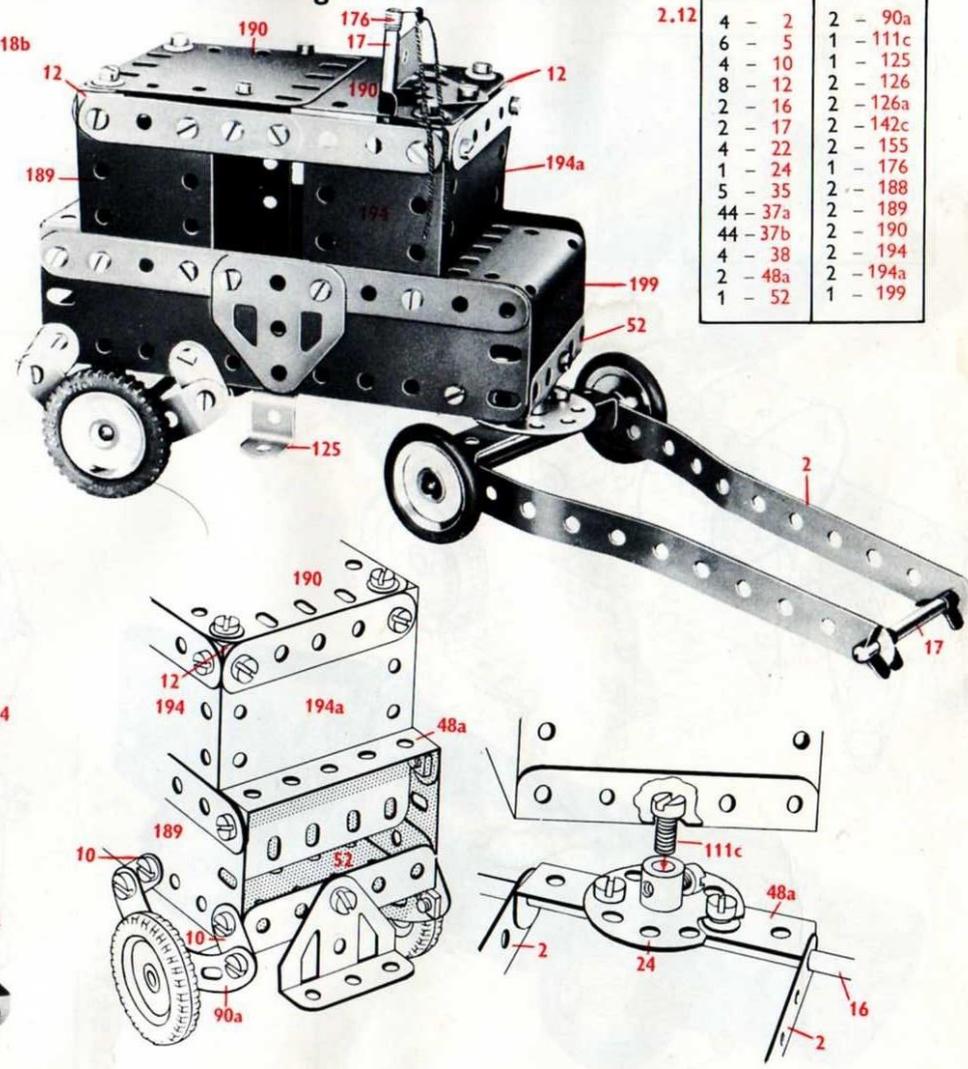
2.11 Shipyard Crane/Grúa de astillero Guindaste de estaleiro Lyftkran Verftskran



2.11

4 - 2	1 - 22a	4 - 111c
6 - 5	1 - 24	1 - 125
4 - 10	4 - 35	2 - 126
1 - 11	51 - 37a	2 - 126a
8 - 12	40 - 37b	1 - 155
1 - 16	7 - 38	1 - 176
2 - 17	1 - 40	2 - 188
1 - 18b	2 - 48a	2 - 194
1 - 19s	1 - 52	1 - 194a
1 - 20a	1 - 57c	1 - 212
4 - 22	2 - 90a	

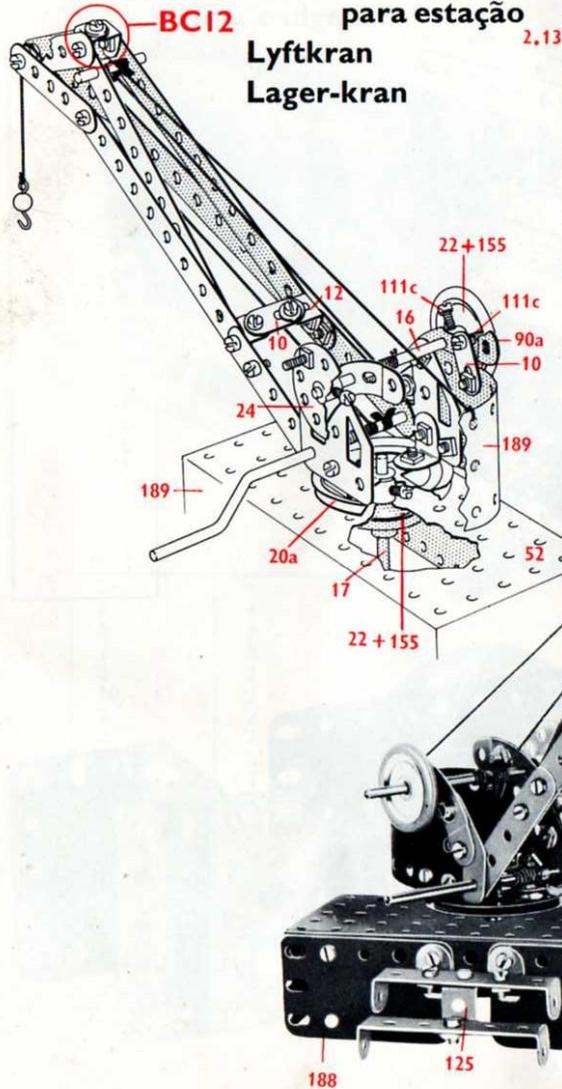
2.12 Stage Coach/Diligencia/Diligência/Diligens Diligense



2.12

4 - 2	2 - 90a
6 - 5	1 - 111c
4 - 10	1 - 125
8 - 12	2 - 126
2 - 16	2 - 126a
2 - 17	2 - 142c
4 - 22	2 - 155
1 - 24	1 - 176
5 - 35	2 - 188
44 - 37a	2 - 189
44 - 37b	2 - 190
4 - 38	2 - 194
2 - 48a	2 - 194a
1 - 52	1 - 199

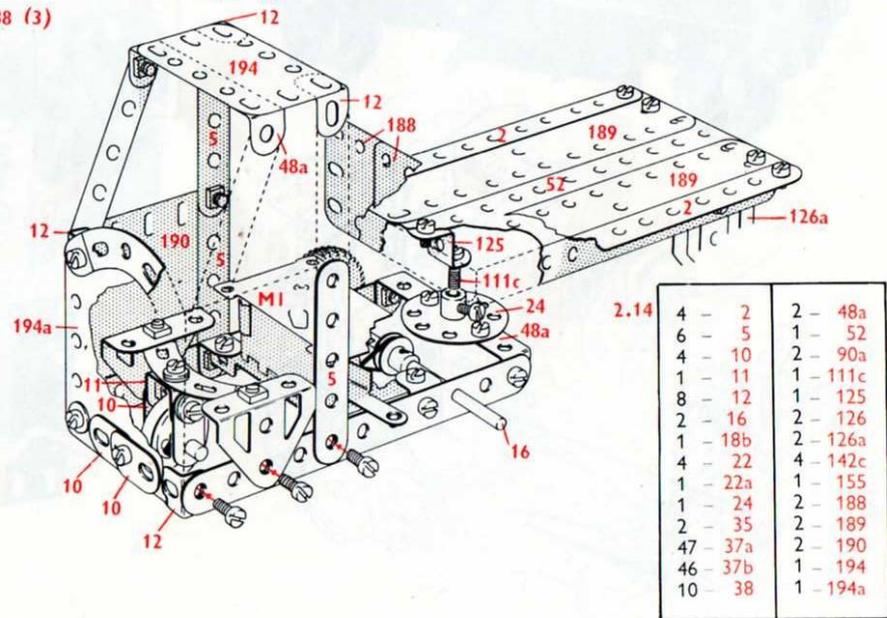
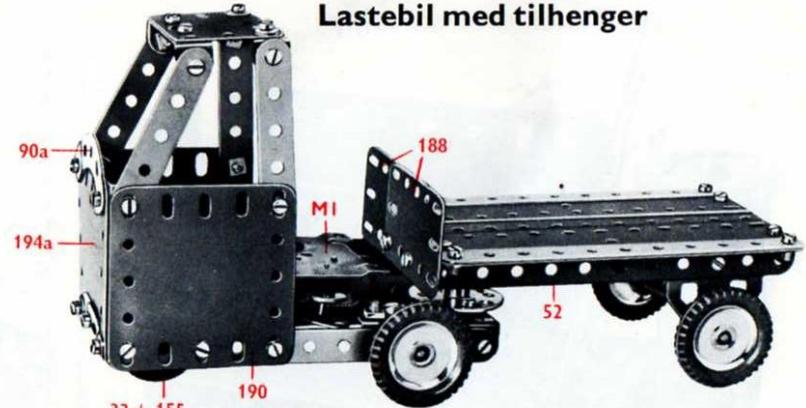
2.13 Goods Yard Crane/Grúa depósito de mercancías
Guindaste de carga
para estação



2.13

4 - 2	10 - 38
6 - 5	1 - 40
3 - 10	2 - 48a
8 - 12	1 - 52
1 - 16	1 - 57c
1 - 17	2 - 90a
1 - 18b	4 - 111c
1 - 19s	1 - 125
1 - 20a	2 - 126a
2 - 22	2 - 155
1 - 24	1 - 176
3 - 35	2 - 188
42 - 37a	2 - 189
39 - 37b	2 - 194

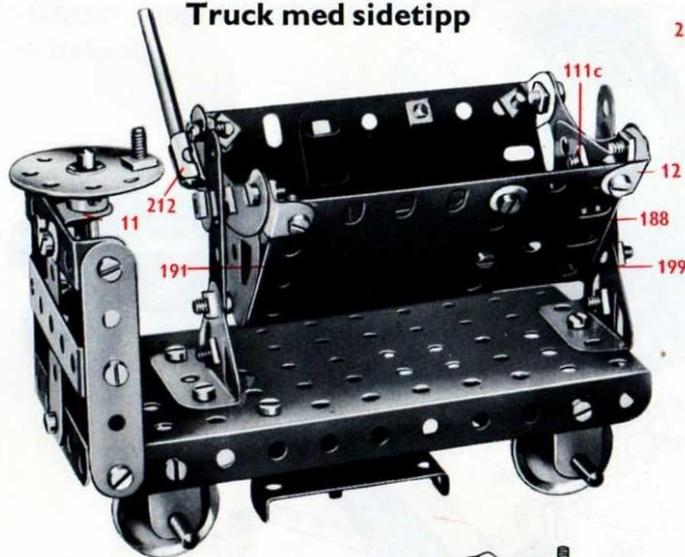
2.14 Articulated Lorry/Camión articulado
Camião articulado/Semitrailer
Lastebil med tilhenger



2.14

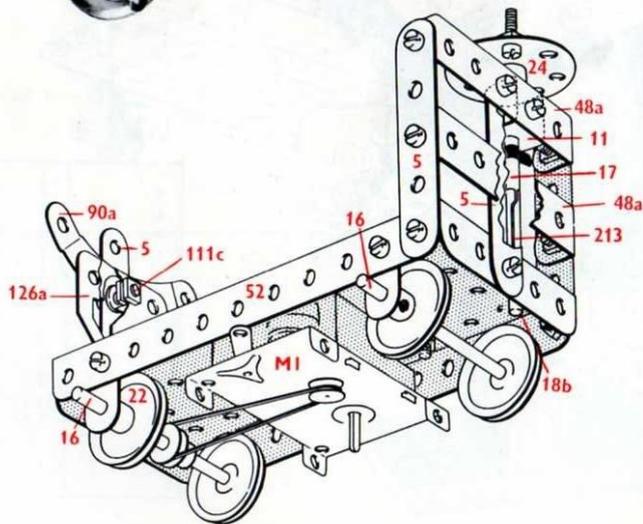
4 - 2	2 - 48a
6 - 5	1 - 52
4 - 10	2 - 90a
1 - 11	1 - 111c
8 - 12	1 - 125
1 - 16	2 - 126
1 - 18b	2 - 126a
2 - 22	4 - 142c
1 - 22a	1 - 155
1 - 24	2 - 188
2 - 35	2 - 189
47 - 37a	2 - 190
46 - 37b	1 - 194
10 - 38	1 - 194a

2.15 Side-tipping Truck/Vagoneta de volquete
Vagão basculante/Tiptruck
Truck med sidetipp

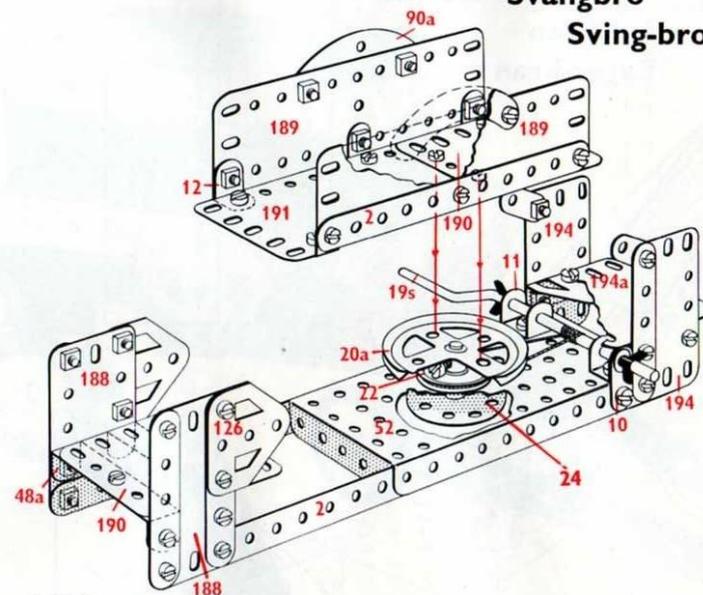


2.15

5	-	5
4	-	10
1	-	11
4	-	12
2	-	16
2	-	17
1	-	18b
4	-	22
1	-	24
1	-	35
38	-	37a
32	-	37b
5	-	38
2	-	48a
1	-	52
2	-	90a
3	-	111c
2	-	126
2	-	126a
2	-	188
1	-	191
1	-	199
1	-	212
1	-	213

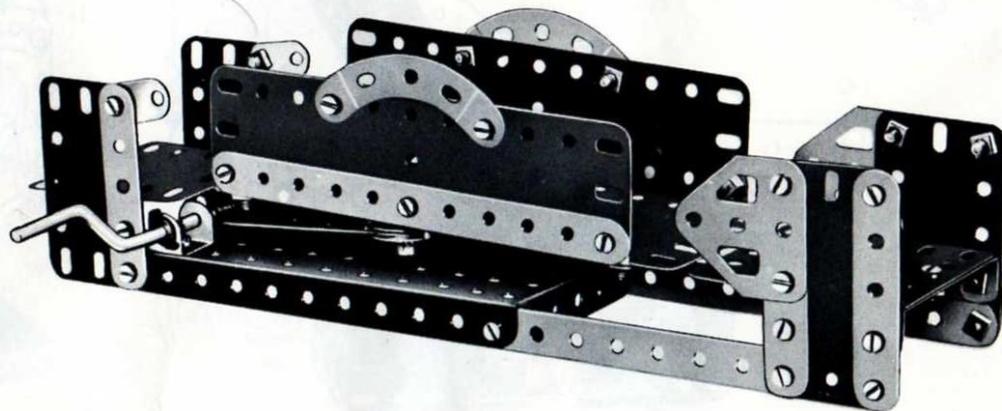


2.16 Swing Bridge/Puente giratorio
Ponte giratória
Svängbro
Sving-bro

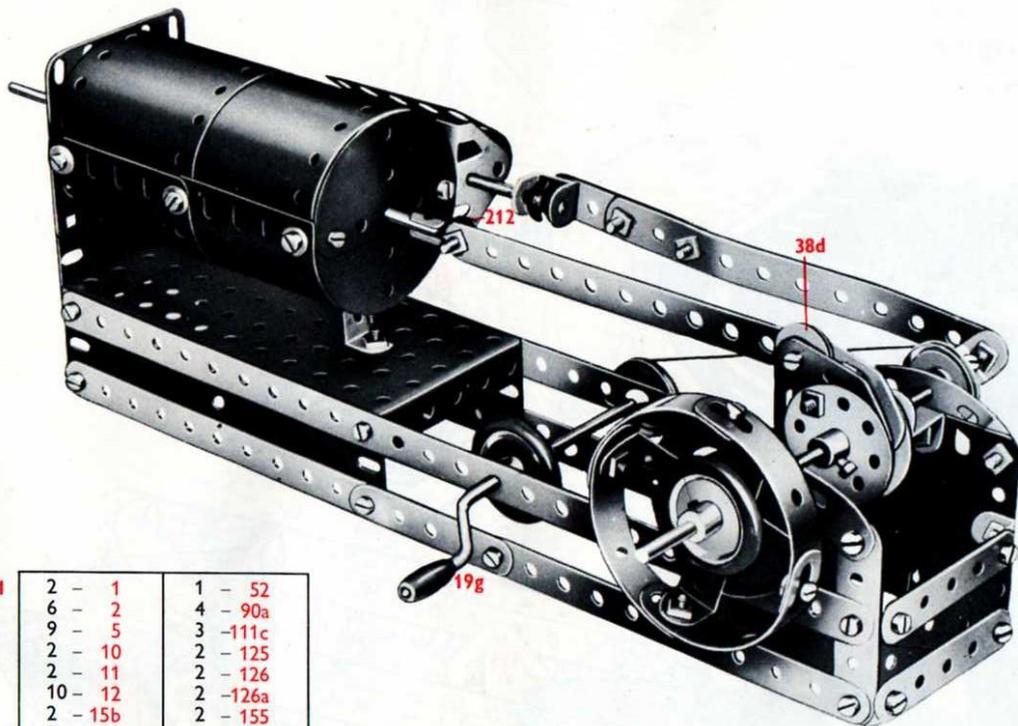


2.16

4	-	2
6	-	5
3	-	10
1	-	11
6	-	12
1	-	18b
1	-	19s
1	-	20a
1	-	22
1	-	24
2	-	35
50	-	37a
50	-	37b
2	-	38
1	-	40
2	-	48a
1	-	52
2	-	90a
1	-	125
2	-	126
2	-	126a
2	-	188
2	-	189
2	-	190
1	-	191
2	-	194
1	-	194a

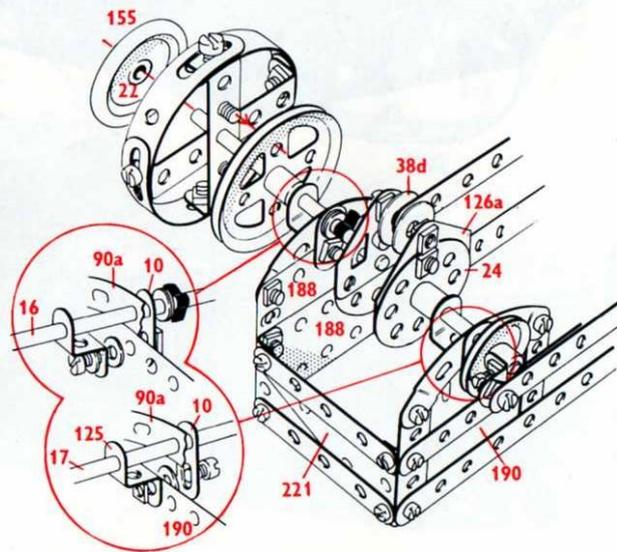
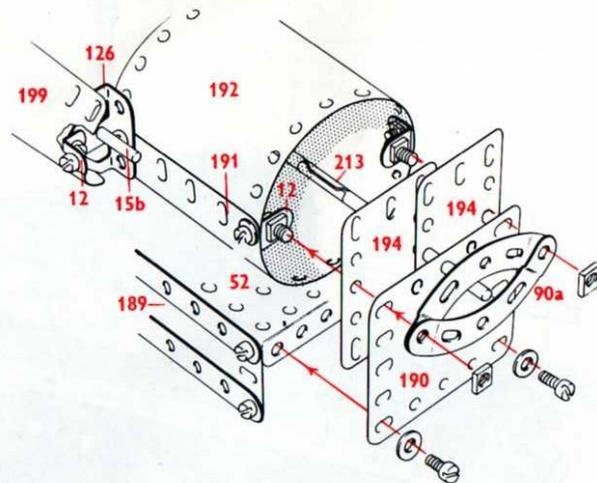


3.1 Horizontal Steam Engine/Máquina horizontal a vapor Ångmaskin/Horizontal dampmaskin

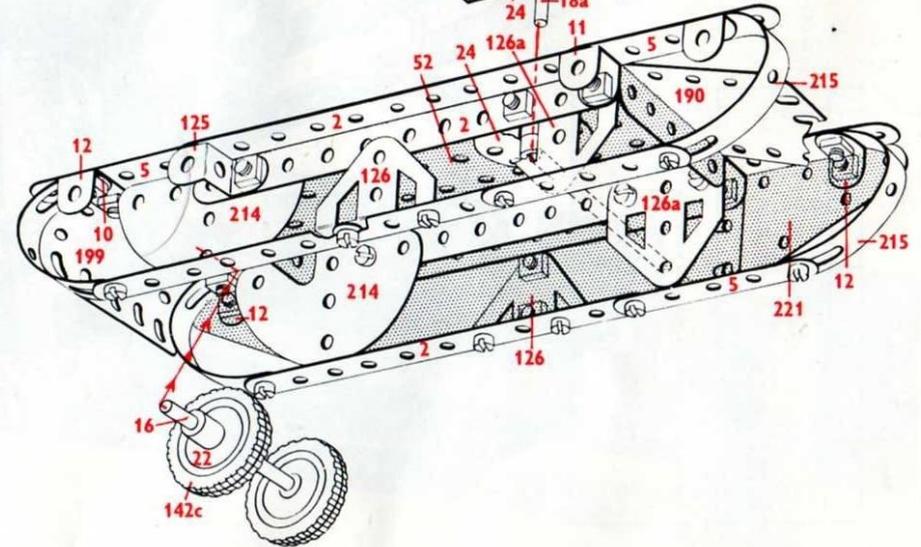
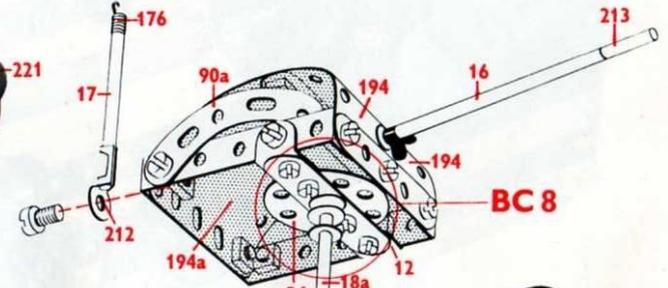
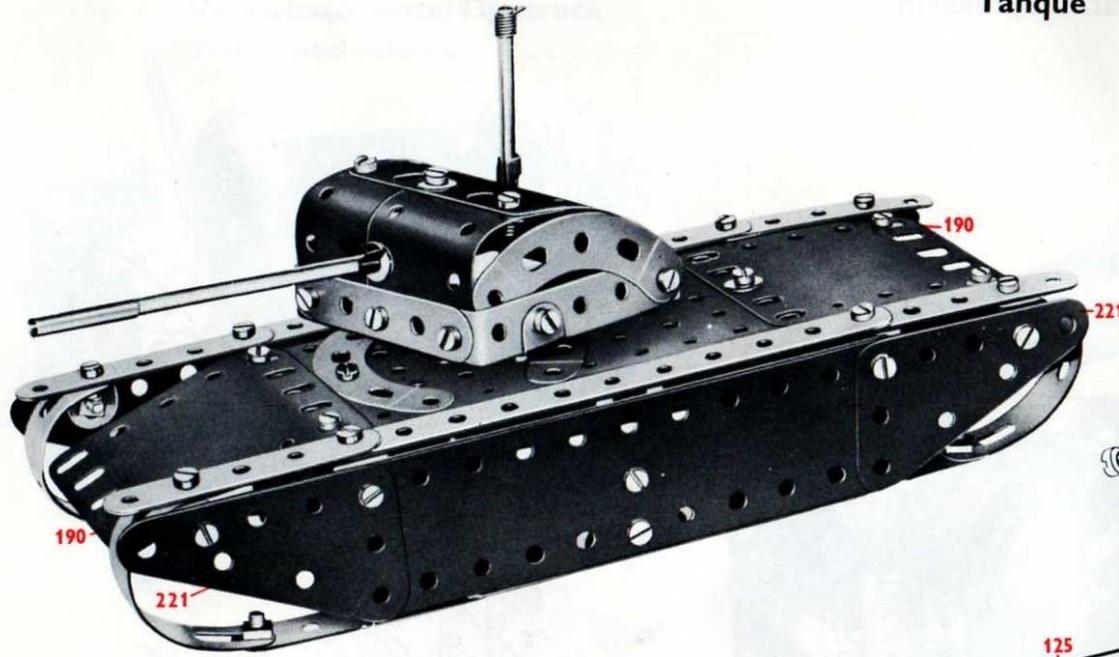


3.1

2 - 1	1 - 52
6 - 2	4 - 90a
9 - 5	3 - 111c
2 - 10	2 - 125
2 - 11	2 - 126
10 - 12	2 - 126a
2 - 15b	2 - 155
2 - 16	2 - 188
1 - 17	2 - 189
1 - 19g	2 - 190
1 - 20a	2 - 191
4 - 22	2 - 192
2 - 24	2 - 194
4 - 35	1 - 199
60 - 37a	1 - 212
53 - 37b	1 - 213
9 - 38	2 - 214
2 - 38d	4 - 215
1 - 40	2 - 221
2 - 48a	



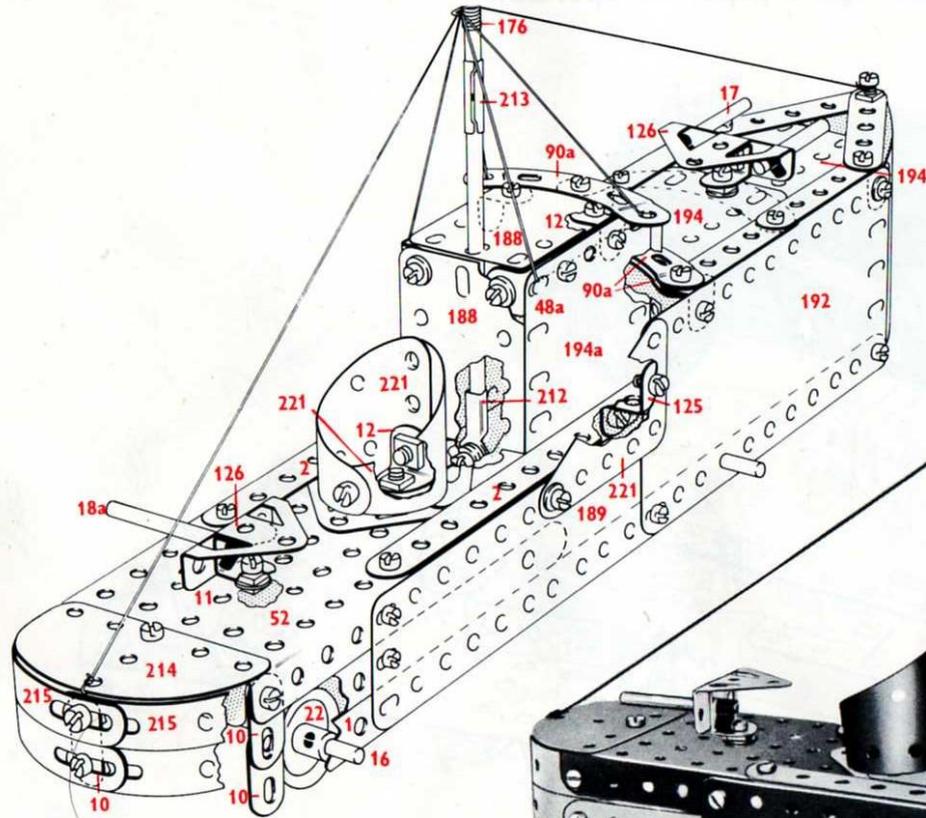
3.2 Tank Tanque



3.2

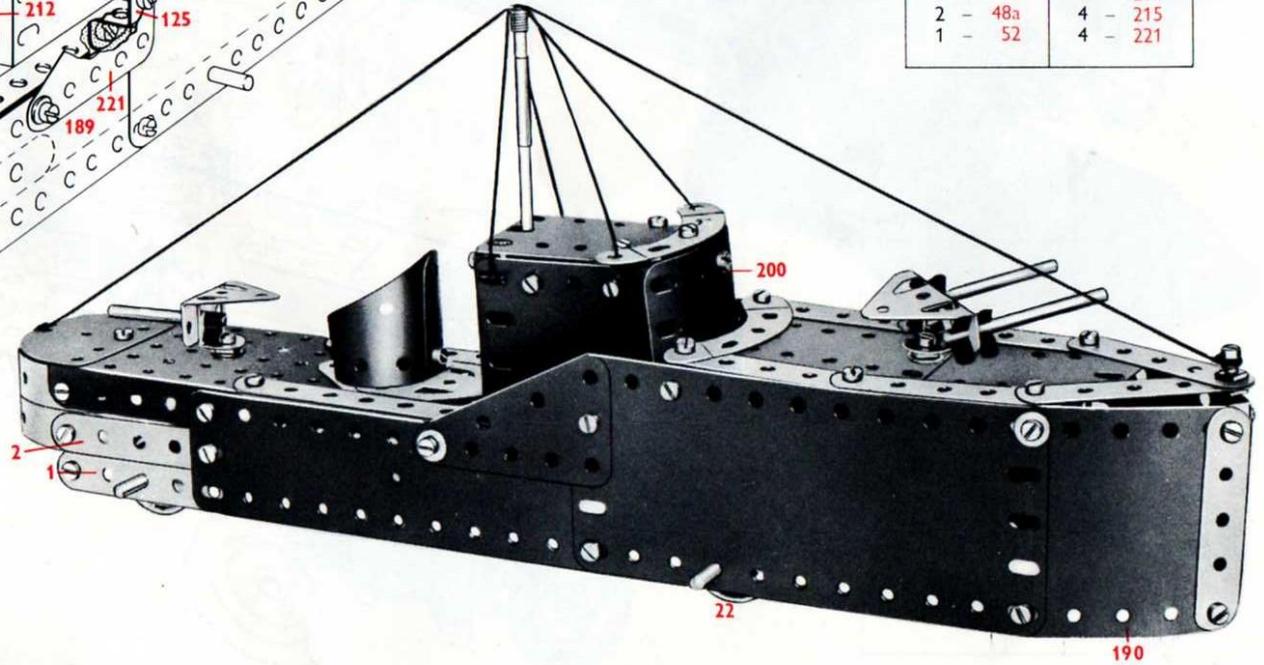
6 - 2	59 - 37a	2 - 189
9 - 5	56 - 37b	2 - 190
3 - 10	8 - 38	2 - 194
2 - 11	2 - 48a	1 - 194a
8 - 12	1 - 52	1 - 199
3 - 16	4 - 90a	1 - 212
1 - 17	3 - 111c	1 - 213
1 - 18a	2 - 125	2 - 214
4 - 22	2 - 126	4 - 215
1 - 23	2 - 126a	4 - 221
2 - 24	4 - 142c	
2 - 35	1 - 176	

3.3 Gun Boat
Cañonero
Canhoneira
Krigsfartyg
Kanonbåt

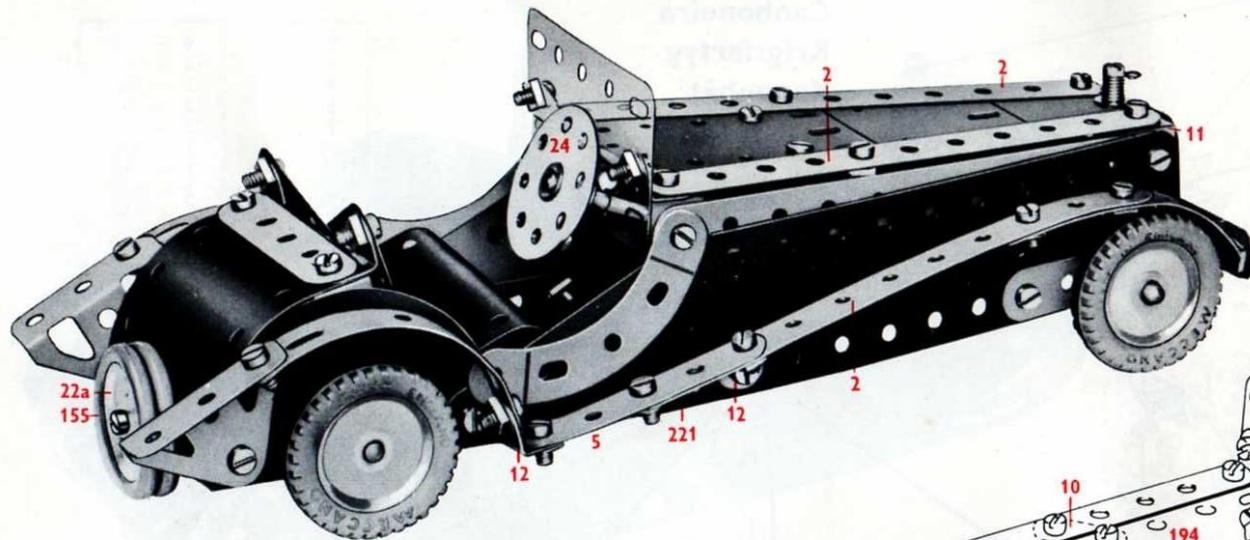


3.3

2 - 1	4 - 90a
4 - 2	3 - 111c
8 - 5	2 - 125
5 - 10	2 - 126
2 - 11	2 - 126a
10 - 12	1 - 176
3 - 16	2 - 188
2 - 17	2 - 189
1 - 18a	2 - 190
1 - 18b	2 - 192
4 - 22	2 - 194
6 - 35	2 - 194a
60 - 37a	1 - 200
54 - 37b	1 - 212
10 - 38	1 - 213
1 - 40	1 - 214
2 - 48a	4 - 215
1 - 52	4 - 221

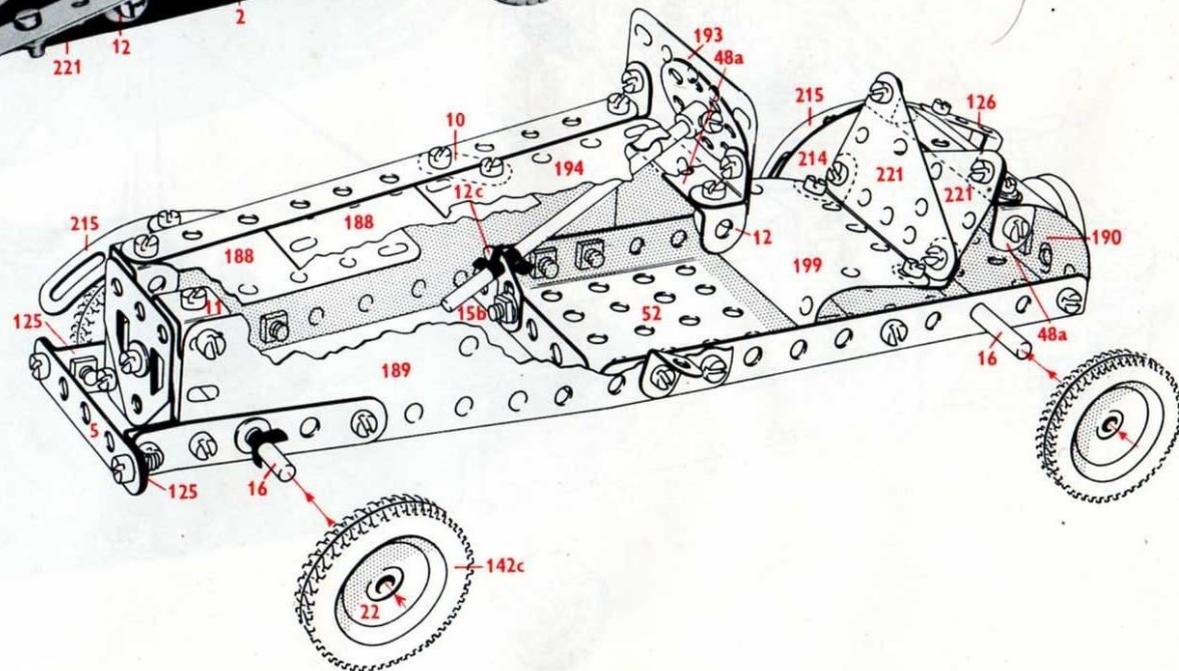


3.4 Sports Car/Automóvil deportivo Carro de "sport"/Sportbil/Sportsbil

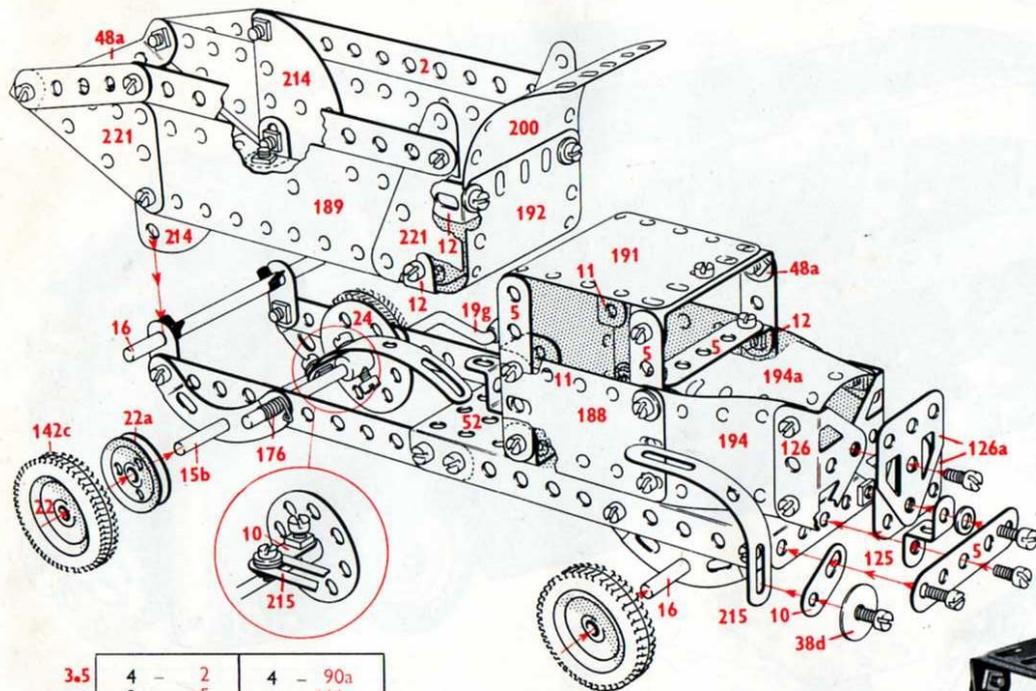


3.4

6 - 2	4 - 111c
6 - 5	2 - 125
3 - 10	2 - 126
2 - 11	2 - 126a
10 - 12	4 - 142c
1 - 15b	2 - 155
2 - 16	1 - 176
4 - 22	2 - 188
2 - 22a	2 - 189
1 - 24	1 - 193
4 - 35	1 - 194
60 - 37a	1 - 199
56 - 37b	1 - 200
5 - 38	2 - 214
2 - 48a	4 - 215
1 - 52	4 - 221
2 - 90a	

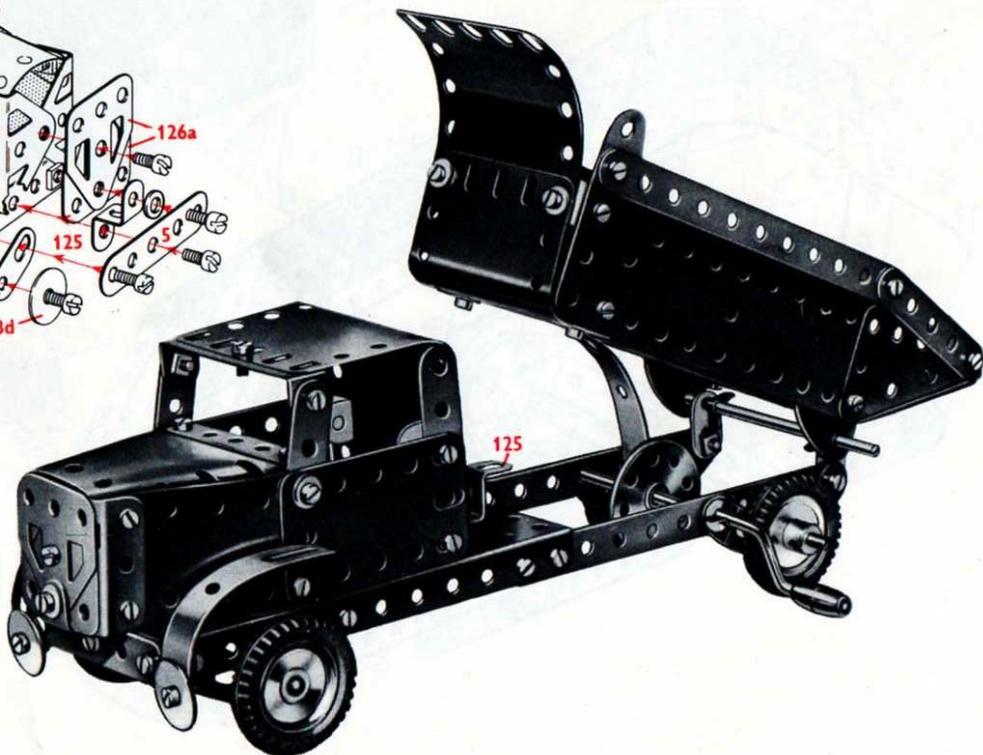


Dumper Truck
Camión volcador
Camião basculante
Truck
Renovasjonsbil

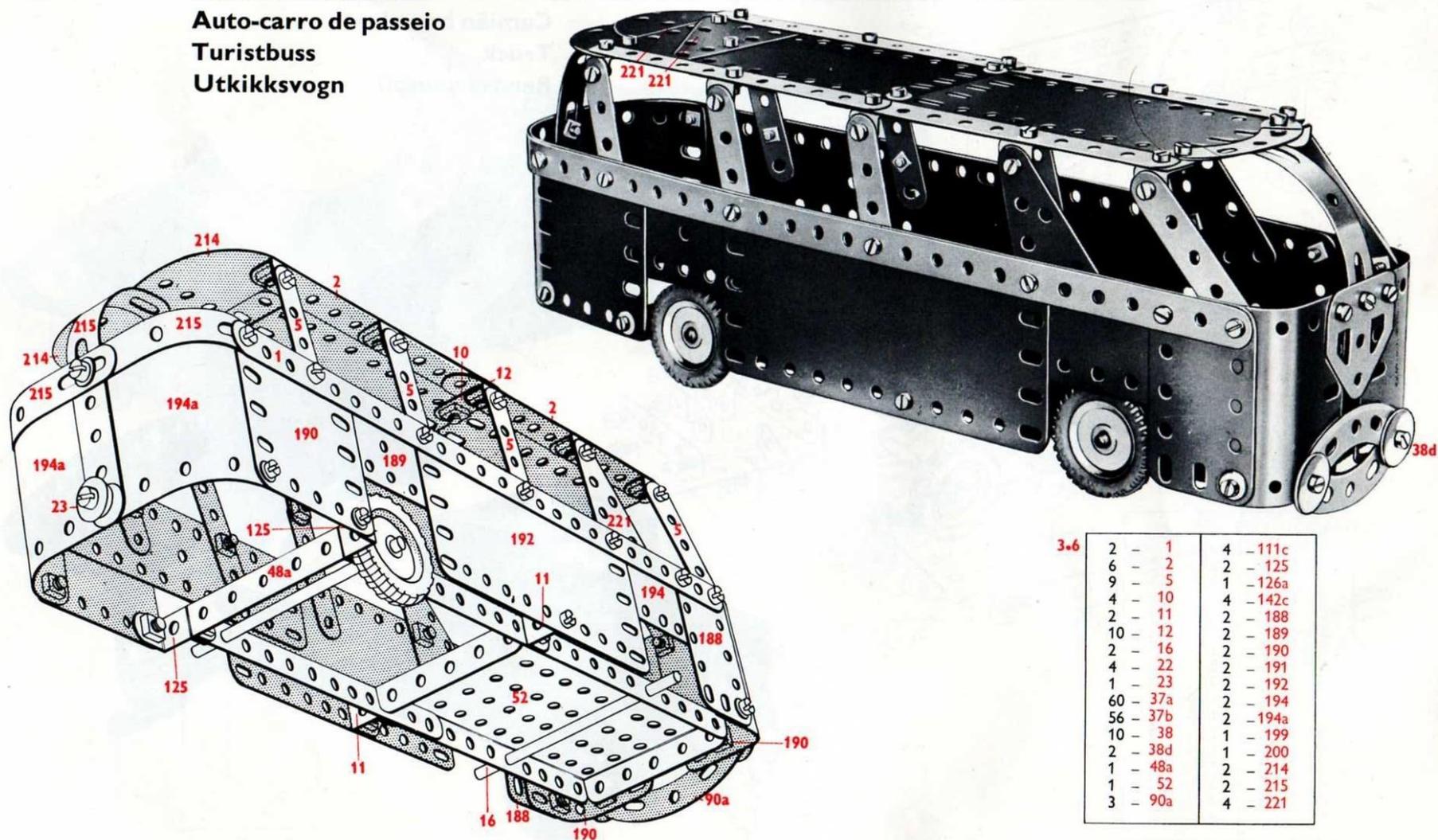


3.5

4 - 2	4 - 90a
8 - 5	4 - 111c
5 - 10	2 - 125
2 - 11	2 - 126
10 - 12	2 - 126a
1 - 15b	4 - 142c
2 - 16	1 - 176
1 - 19g	2 - 188
4 - 22	2 - 189
2 - 22a	2 - 190
1 - 24	1 - 191
3 - 35	1 - 192
60 - 37a	2 - 194
56 - 37b	1 - 194a
10 - 38	1 - 200
2 - 38d	2 - 214
2 - 48a	3 - 215
1 - 52	4 - 221



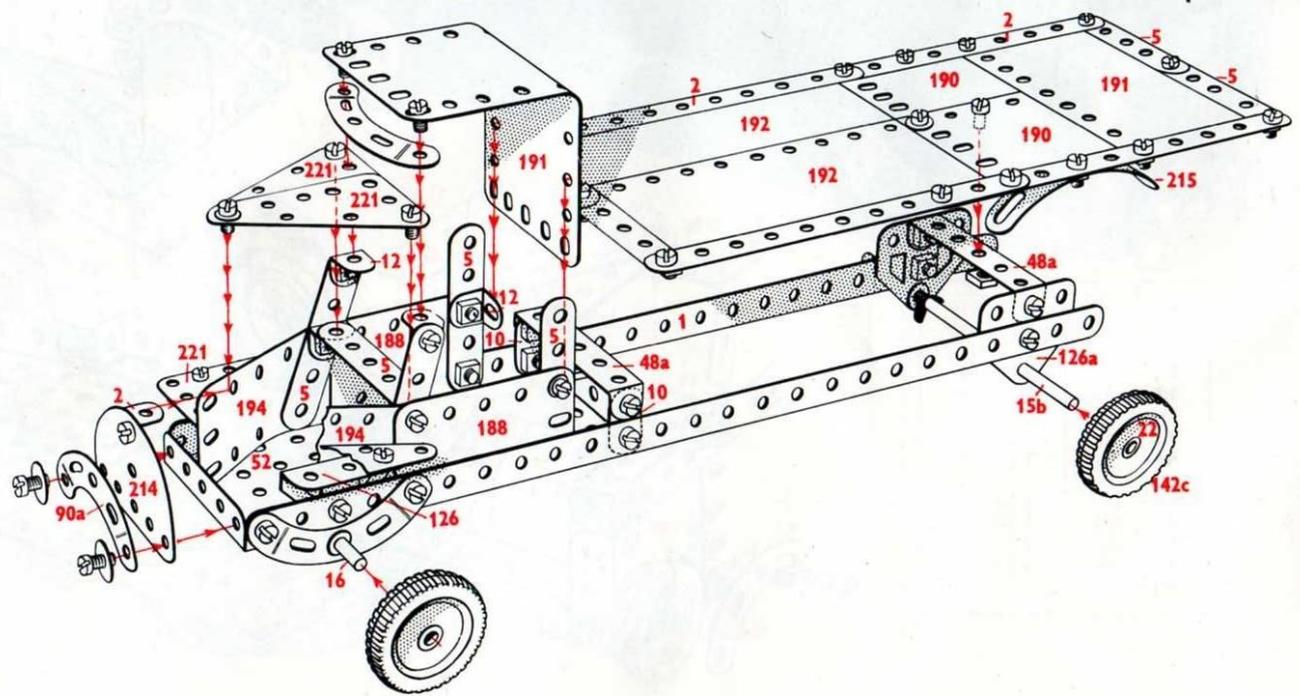
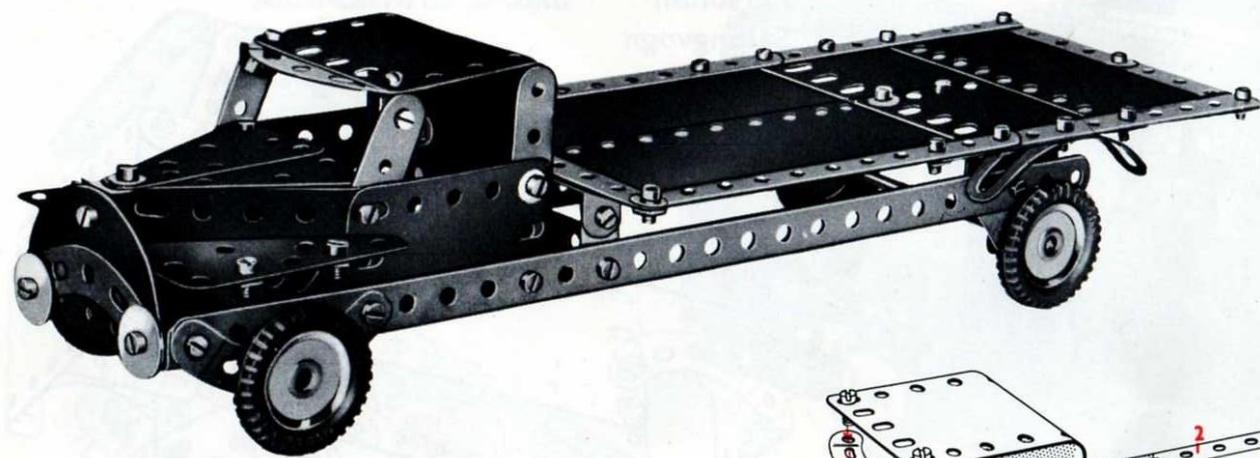
3.6 Observation Coach
Coche observatorio
Auto-carro de passeio
Turistbuss
Utkikksvogn



3-6

2	-	1	4	-	111c
6	-	2	2	-	125
9	-	5	1	-	126a
4	-	10	4	-	142c
2	-	11	2	-	188
10	-	12	2	-	189
2	-	16	2	-	190
4	-	22	2	-	191
1	-	23	2	-	192
60	-	37a	2	-	194
56	-	37b	2	-	194a
10	-	38	1	-	199
2	-	38d	1	-	200
1	-	48a	2	-	214
1	-	52	2	-	215
3	-	90a	4	-	221

3.8 Motor Lorry/Camión/Camião/Lastbil/Motorvogn



3.8

2 - 1	1 - 52
4 - 2	4 - 90a
9 - 5	2 - 126
2 - 10	2 - 126a
7 - 12	4 - 142c
1 - 15b	2 - 188
1 - 16	2 - 190
4 - 22	2 - 191
2 - 35	2 - 192
53 - 37a	2 - 194
53 - 37b	1 - 214
8 - 38	2 - 215
2 - 38d	4 - 221
2 - 48a	

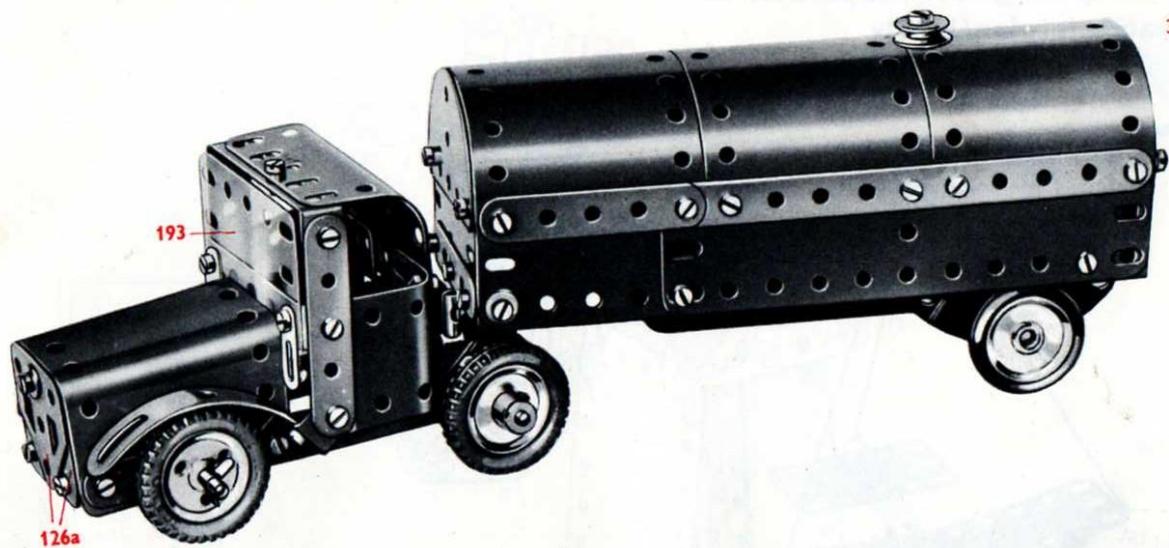
3.9

Articulated Petrol Tanker/Tanque de gasolina articulado

Carro tanque articulado para gasolina

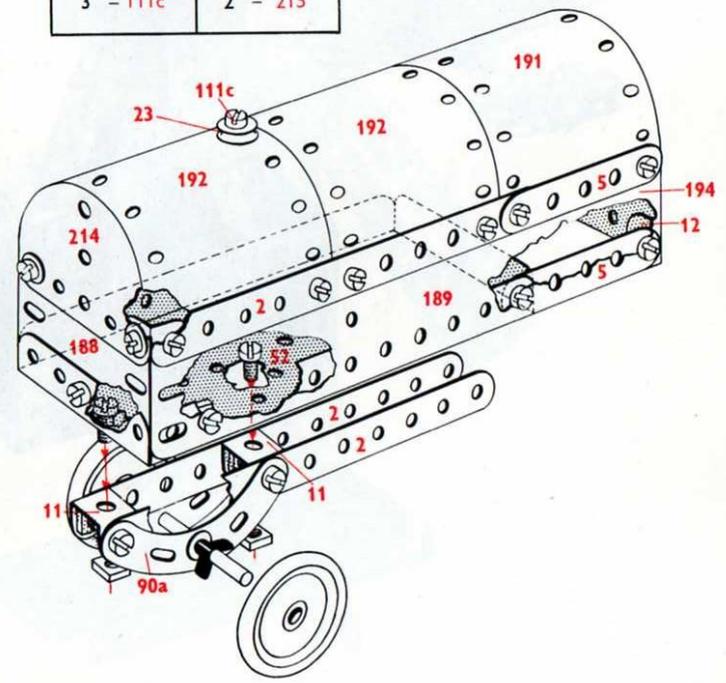
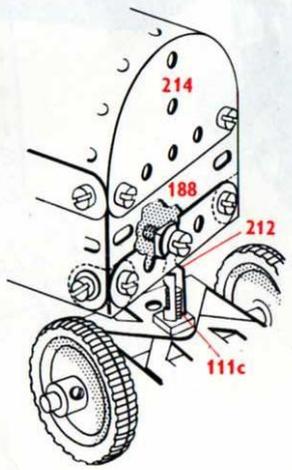
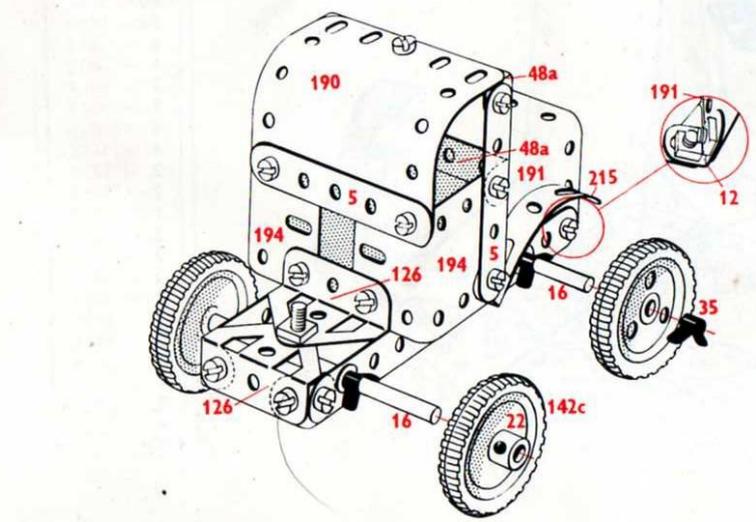
Bensinbil, semitrailer

Bensinbil med tilhenger

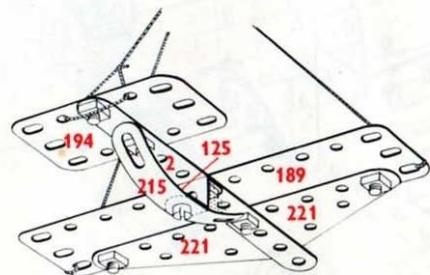
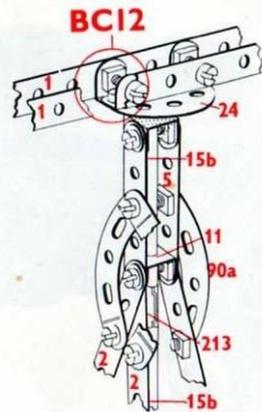
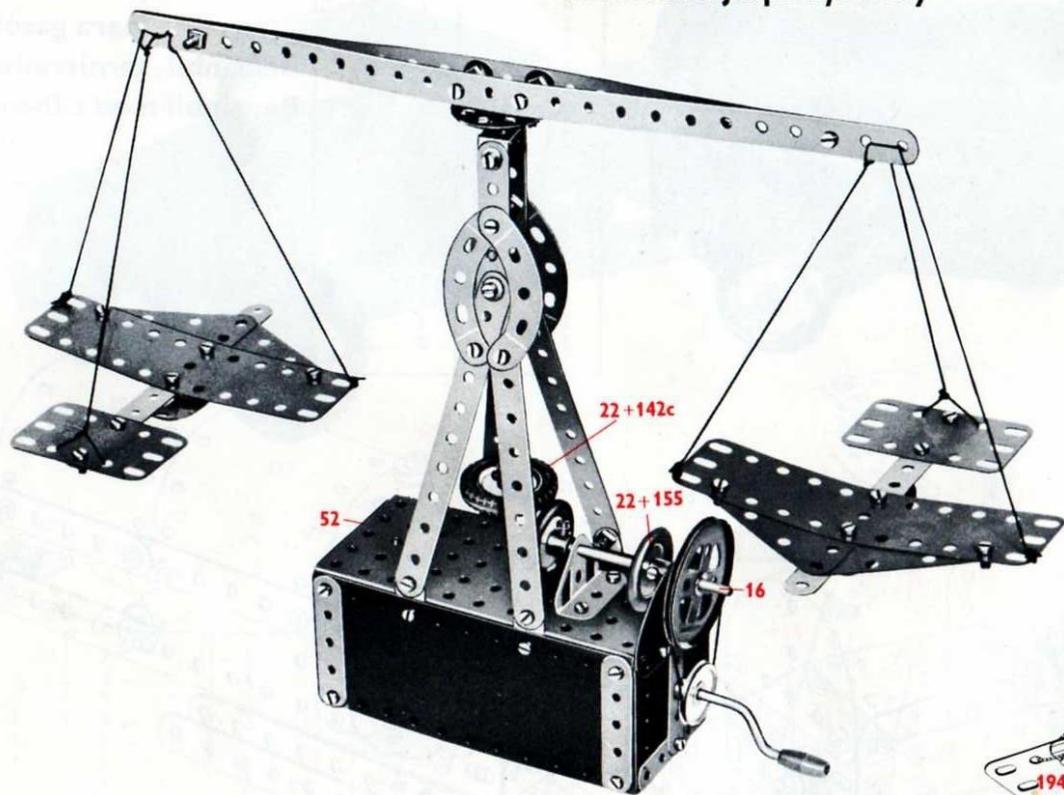


3.9

6 - 2	2 - 125
8 - 5	2 - 126
2 - 10	2 - 126a
2 - 11	4 - 142c
8 - 12	2 - 155
2 - 16	1 - 176
1 - 17	2 - 188
4 - 22	2 - 189
2 - 22a	1 - 190
1 - 23	2 - 191
7 - 35	2 - 192
60 - 37a	1 - 193
56 - 37b	2 - 194
10 - 38	2 - 194a
2 - 48a	1 - 199
1 - 52	1 - 212
2 - 90a	2 - 214
3 - 111c	2 - 215



3.10 Revolving Jet Planes/Aviones de propulsión Aviões de jacto giratorios para feiras Roterande jetplan/Jet-fly



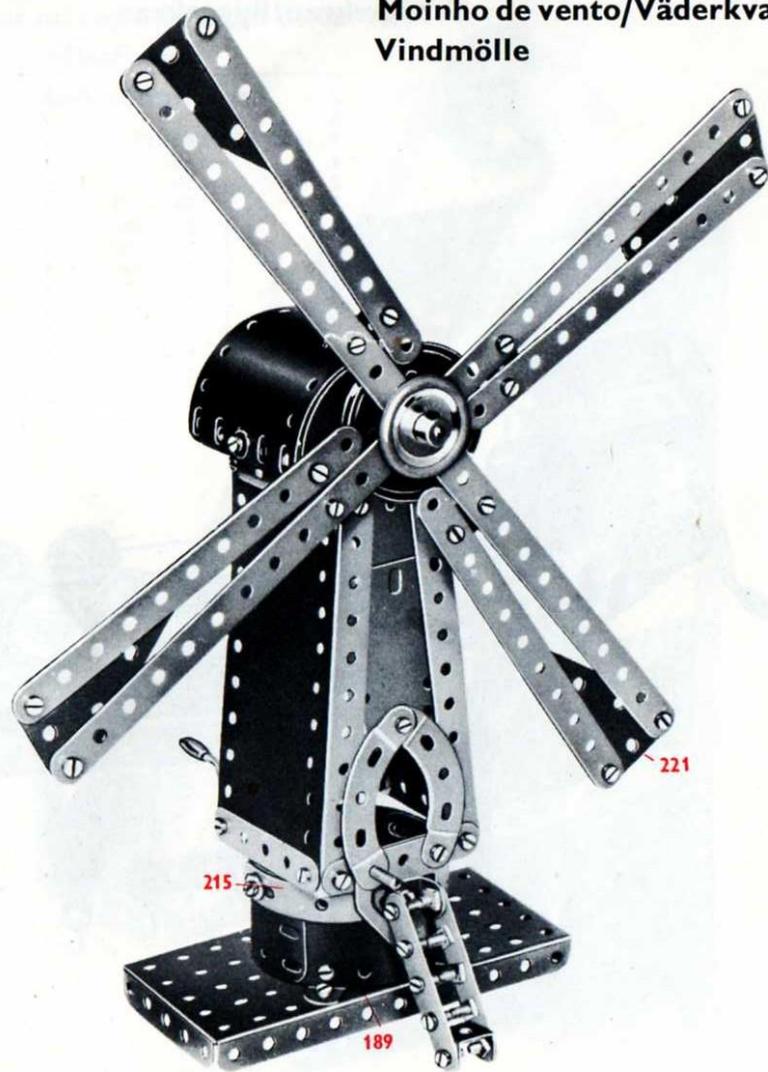
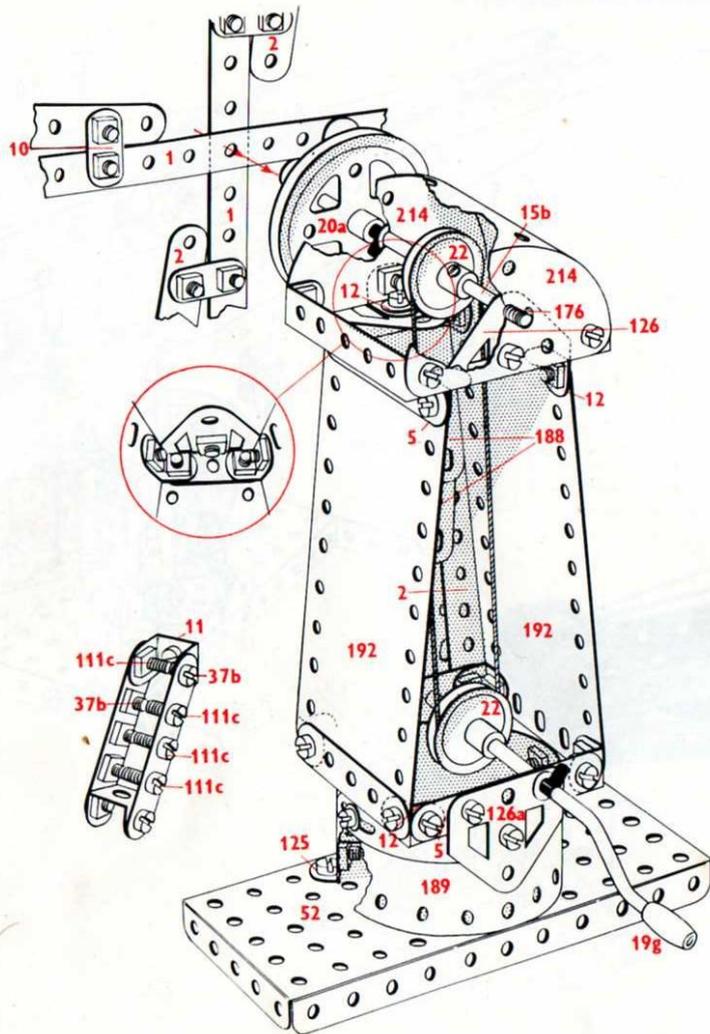
3.10

2	-	1
6	-	2
9	-	5
4	-	10
2	-	11
4	-	12
2	-	15b
1	-	16
1	-	19g
1	-	20a
4	-	22
2	-	24
60	-	37a
56	-	37b
6	-	38
1	-	40
2	-	48a
1	-	52
4	-	90a
4	-	111c
2	-	125
2	-	126
1	-	142c
2	-	155
2	-	188
2	-	189
1	-	190
2	-	192
2	-	194
1	-	213
1	-	214
2	-	215
4	-	221

**3.11 Windmill/Molino de viento
Moinho de vento/Väderkvarn
Vindmölle**

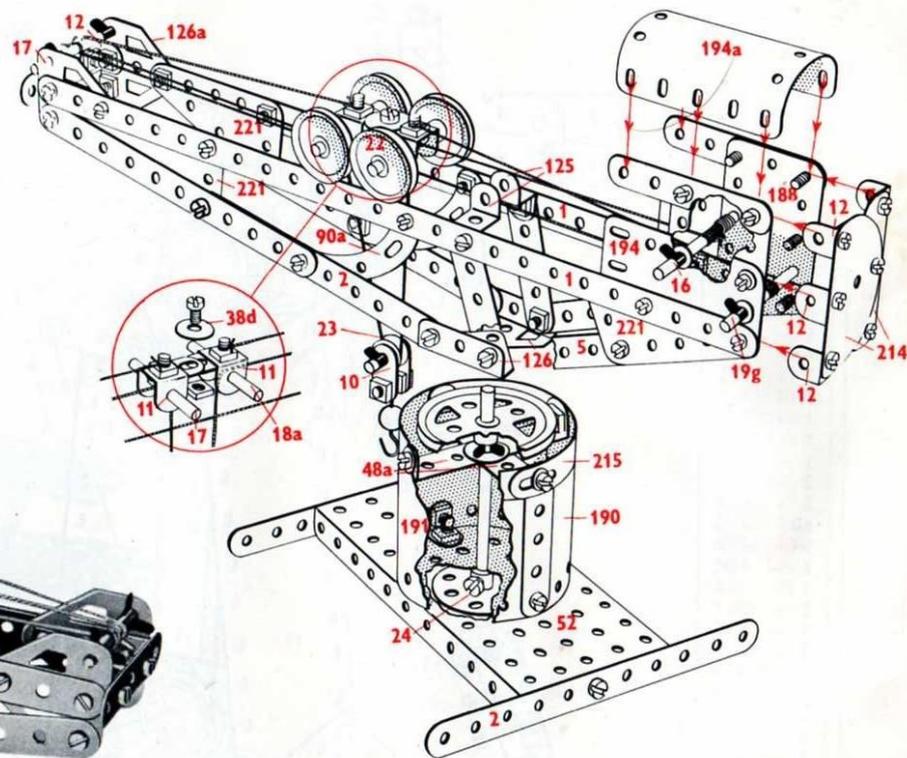
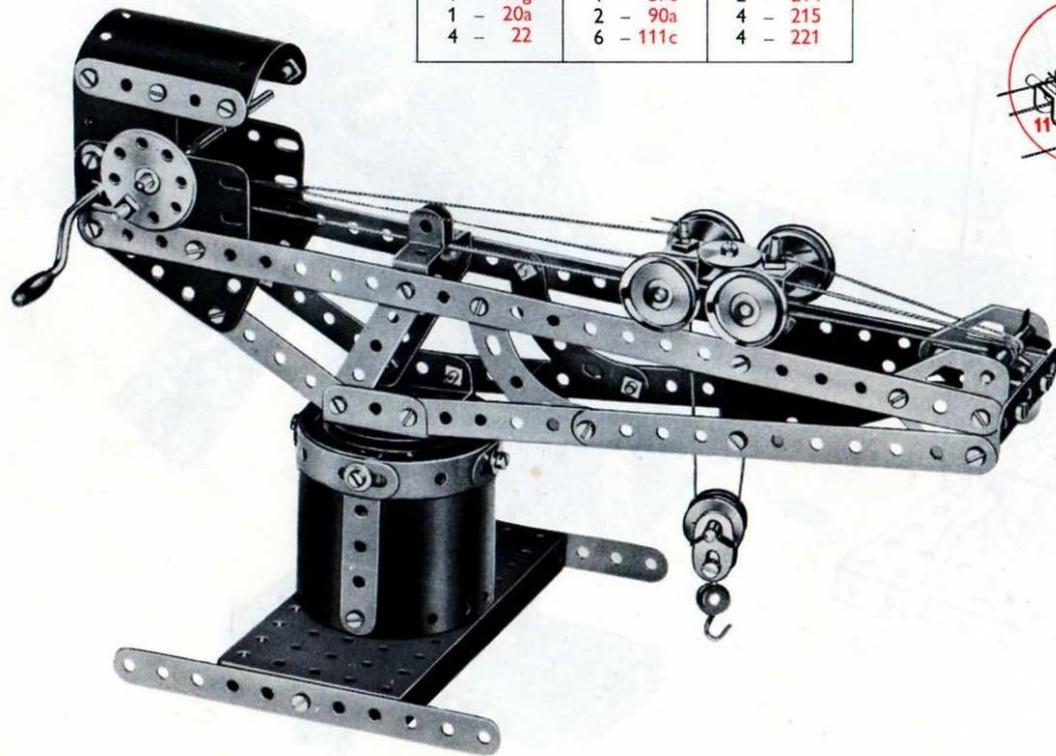
3.11

2	-	1
6	-	2
8	-	5
4	-	10
2	-	11
9	-	12
1	-	15b
1	-	19g
1	-	20a
3	-	22
2	-	35
60	-	37a
54	-	37b
6	-	38
1	-	40
2	-	48a
1	-	52
2	-	90a
6	-	111c
2	-	125
2	-	126
2	-	126a
1	-	155
1	-	176
2	-	188
2	-	189
1	-	191
2	-	192
2	-	214
4	-	215
4	-	221



3.12 Block-setting Crane/Grúa asentadora de hormigón/Guindaste para colocação de blócos Traverskran/Byggekran

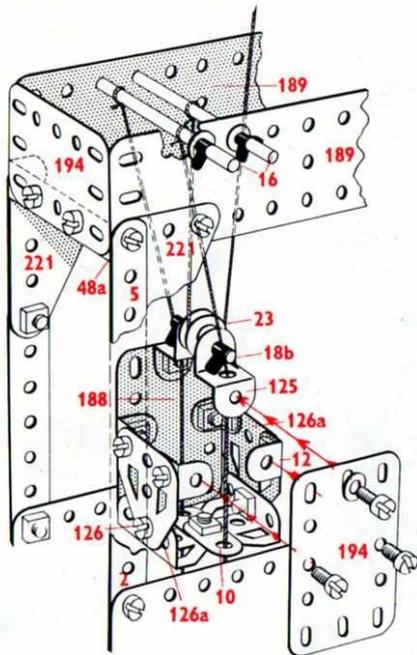
3.12	2 - 1	1 - 23	2 - 125
	6 - 2	2 - 24	2 - 126
	9 - 5	8 - 35	2 - 126a
	4 - 10	60 - 37a	1 - 176
	2 - 11	52 - 37b	2 - 188
	10 - 12	10 - 38	1 - 190
	2 - 16	2 - 38d	1 - 191
	2 - 17	1 - 40	2 - 194
	1 - 18a	2 - 48a	1 - 194a
	1 - 18b	1 - 52	1 - 200
	1 - 19g	1 - 57c	2 - 214
	1 - 20a	2 - 90a	4 - 215
	4 - 22	6 - 111c	4 - 221



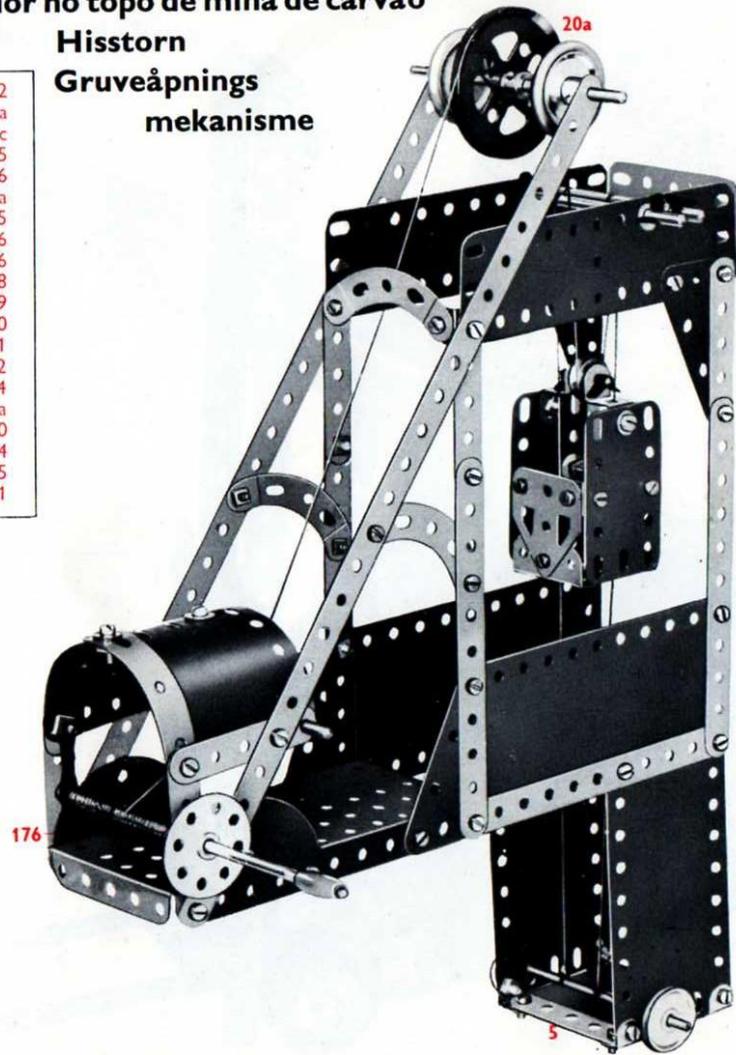
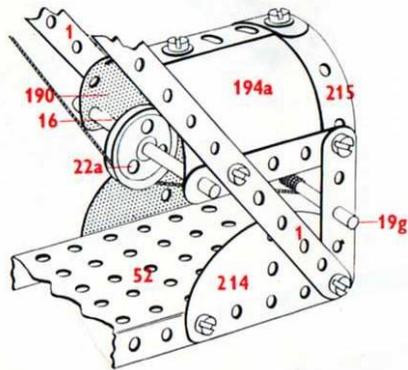
3.13

Pit-head Gear/ Maquinaria de boca minera
Equipamento elevador no topo de mina de carvão

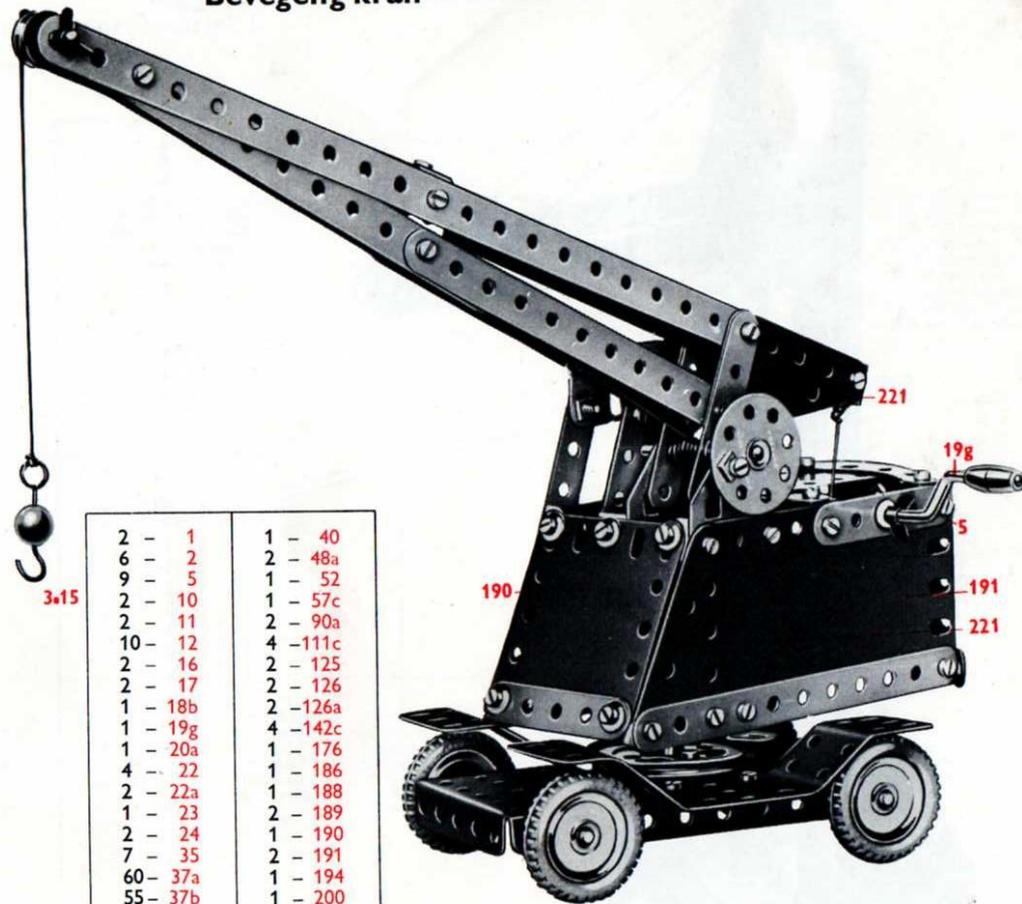
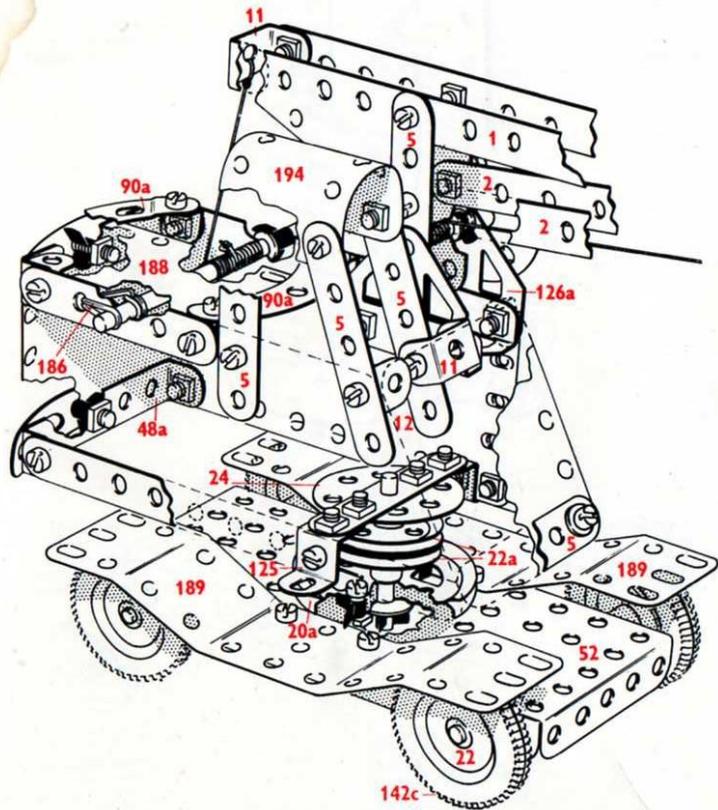
Historn
Gruveåpnings
mekanisme



3.13	2 - 1	1 - 52
	6 - 2	4 - 90a
	9 - 5	4 - 111c
	2 - 10	2 - 125
	10 - 12	2 - 126
	2 - 15b	2 - 126a
	3 - 16	2 - 155
	1 - 18b	1 - 176
	1 - 19g	1 - 186
	1 - 20a	2 - 188
	4 - 22	2 - 189
	1 - 22a	1 - 190
	1 - 23	2 - 191
	1 - 24	2 - 192
	8 - 35	2 - 194
	60 - 37a	1 - 194a
	56 - 37b	1 - 200
	10 - 38	2 - 214
	1 - 40	4 - 215
	2 - 48a	4 - 221

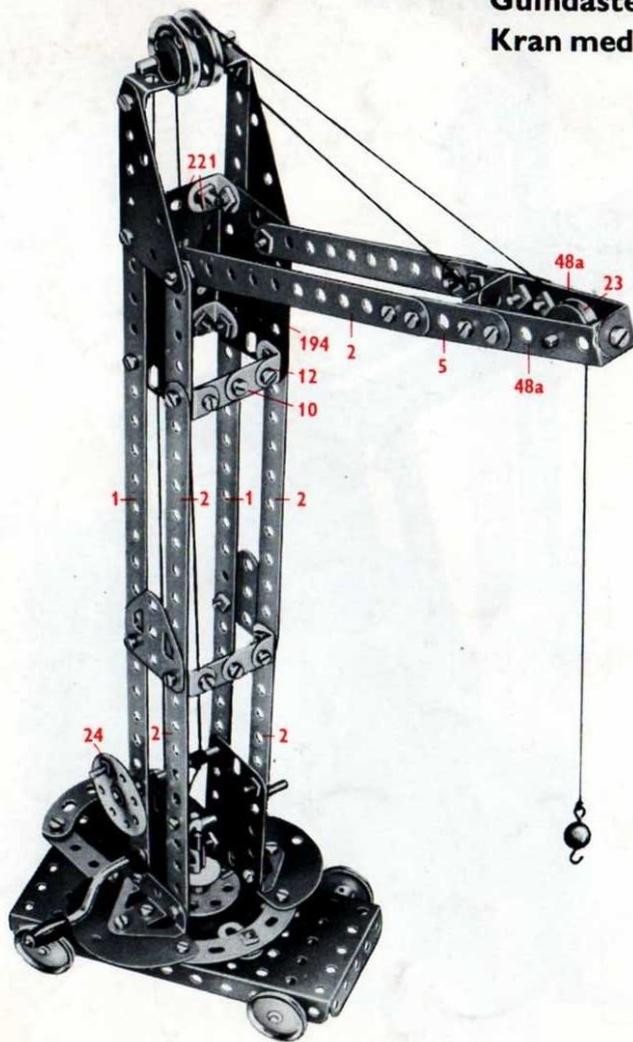


3.15 Mobile Crane/Grúa ambulante Guindaste móvel/Rörlig kran Bevegelig kran



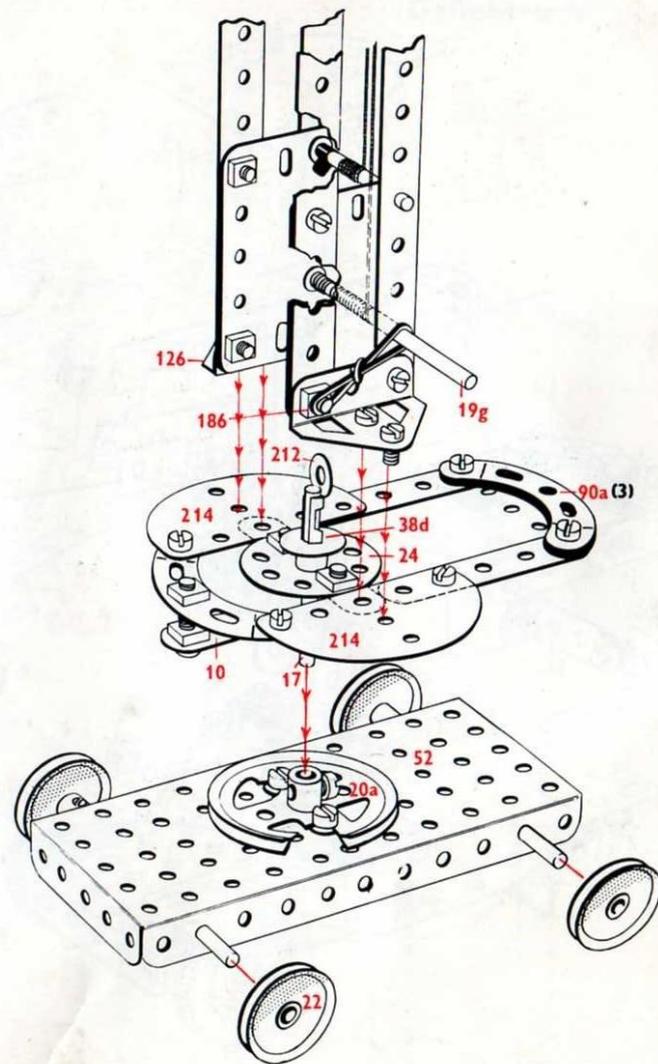
2 - 1	1 - 40
6 - 2	2 - 48a
9 - 5	1 - 52
2 - 10	1 - 57c
2 - 11	2 - 90a
10 - 12	4 - 111c
2 - 16	2 - 125
2 - 17	2 - 126
1 - 18b	2 - 126a
1 - 19g	4 - 142c
1 - 20a	1 - 176
4 - 22	1 - 186
2 - 22a	1 - 188
1 - 23	2 - 189
2 - 24	1 - 190
7 - 35	2 - 191
60 - 37a	1 - 194
55 - 37b	1 - 200
8 - 38	4 - 221
1 - 38d	

3.16 **Monotower Crane/Grúa de torre**
Guindaste de torre/Kran
Kran med enkel utligger



3.16

2	-	1
6	-	2
9	-	5
5	-	10
8	-	12
2	-	16
2	-	17
1	-	18a
1	-	18b
1	-	19g
1	-	20a
4	-	22
2	-	22a
1	-	23
2	-	24
7	-	35
59	-	37a
48	-	37b
9	-	38
1	-	38d
1	-	40
2	-	48a
1	-	52
1	-	57c
4	-	90a
6	-	111c
2	-	125
2	-	126
2	-	126a
1	-	176
1	-	186
2	-	188
1	-	190
2	-	194
1	-	212
2	-	214
4	-	221



Names and numbers of Meccano parts used in No. 2 and No. 3 Outfit models

Nombres y números de las piezas Meccano que se usan en los modelos de los Equipos No. 2 y No. 3

Nomes e números das peças de Meccano incluídas nos Estojos Nos. 2 e 3

Namn och nummer på Meccanodelar som används i grundbyggglådor nr. 2 och nr. 3

Navn og nummer på Meccano deler brukt til modeller i sett nr. 2 og nr. 3

Perforated Strip
Tiras perforadas
Tiras perforadas
Perforerade remso
Perforert bånd

Fishplate
Soporte plano
Soporte plano
Flat hållare
Skilleplate

Double Bracket
Soporte doble
Soporte duplo
Dubbelhållare
Dobbelbrakett

Angle Bracket
Soporte angular
Soporte angular
Vinkelhållare
Vinkelbrakett

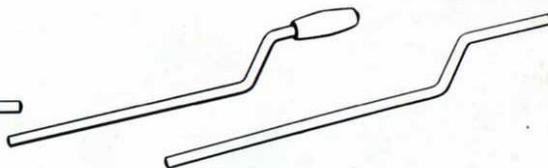
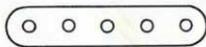
Rods
Varillas
Varetas de eixo
Axelstänger
Stenger

Crank Handle (with grip)
Mango de cigüeña (con puño)
Manivela (com cabo)
Vev (med handtag)
Sveivhåndtak (med grep)

Crank Handle (without grip)
Mango de cigüeña (sin puño)
Manivela sem cabo
Vev (utan handtag)
Sveivhåndtak (uten grep)

Pulley 2" diameter
Polea 5 cm diámetro
Polia diámetro 5 cm
Linhjul - 5 cm diameter
Remskive 51 mm diameter

Pulley (with boss) 1" diameter
Polea (con cubo)
25 mm diámetro
Polia (com cubo)
diámetro 25 mm
Linhjul (med nav)
- 25 mm diameter
Remskive (med bøsning)
25 mm diameter



1 - 12 1/2"; 32 cm
2 - 5 1/2"; 14 cm
5 - 2 1/2"; 6 cm

10

11

12

15b - 4"; 10 cm
16 - 3 1/2"; 9 cm
17 - 2"; 5 cm
18a - 1 1/2"; 4 cm
18b - 1"; 2,5 cm

19g

19s

20a - 2"; 5 cm

22 - 1"; 2,5 cm

Pulley (without boss)
Polea (sin cubo)
Polia (sem cubo)
Linhjul (utan nav)
Remskive (uten bøsning)

Pulley (with boss)
Polea (sin cubo)
Polia (sem cubo)
Linhjul (utan nav)
Remskive (uten bøsning)

Bush Wheel
Rueda con buje
Roda de bucha
Centerskiva
Bössinghjul

Spring Clip
Abrazadera
de resorte
Grampo de mola
Fjærklamme
Fjærklammer

Nut
Tuerca
Porca
Mutter
Mutter

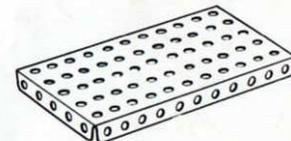
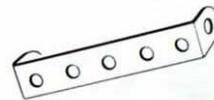
Bolt
Perno
Parafuso
Bult
Bolt

Washer
Arandela
Arruela
Bricka
Mellomleggskive

Washer
Arandela
Arruela
Bricka
Mellomleggskive

Double Angle Strip
Tira doblada
Tira dobrada
Dubbelvinkelremsa
Dobbelbøyd barre

Flanged Plate
Placa rebordeada
Placa rebordeada
Flänsplåt
Plate med ombøyd kant



22a - 1"; 2,5 cm

23 - 1/2"; 1 cm

24

35

37a

37b

38

38d - 3/4"; 2 cm

48a - 2 1/2" x 1/2"; 6 cm x 1 cm

52 - 5 1/2" x 2 1/2"; 14 cm x 6 cm

Names and numbers of Meccano parts used in No. 2 and No. 3 Outfit models

Nombres y números de las piezas Meccano que se usan en los modelos de los Equipos No. 2 y No. 3

Nomes e números das peças de Meccano incluídas nos Estojos Nos. 2 e 3

Namn och nummer på Meccanodelar som används i grundbygglådor nr. 2 och nr. 3

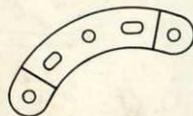
Navn og nummer på Meccano deler brukt til modeller i sett nr. 2 og nr. 3

Loaded Hook
Gancho cargado
Gancho
chumbado
(pequeno)
Belastad krok
Krok med lodd



57c

Curved Strip (Stepped)
Tira curva (acodada)
Tira curva (de cotovelo)
Bågremsa, bockad
Buet barre



90a

Bolt
Perno
Parafuso
Bult
Bolt



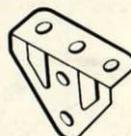
111c - 3/8"; 1 cm

Reversed Angle
Bracket
Soporte angular
inverso
Suporte angular
invertido
Omvänd
vinkelhållare
Tilbakebøyd
vinkelbrakett



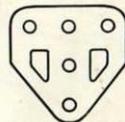
125

Trunnion
Muñón
Cantoneira
Vinkelbockad
fästplåt
Svingstykke, bøyd



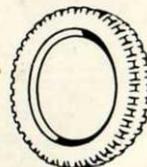
126

Flat Trunnion
Muñón plano
Aleta
Flat fästplåt
Svingstykke, flatt



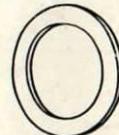
126a

Motor Tyre
Neumático para rueda
Pneu de auto
Däck
Bilring



142c

Rubber Ring
Anillo de caucho
Aro de borracha
Gummiring
Gummiring



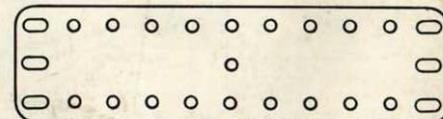
155

Cord Anchoring
Spring
Resorte de
enganche
para cuerda
Mola de
prender cordel
Förankrings-
fjäder för
Meccano-snöre
Ankerfjær
for Snor



176

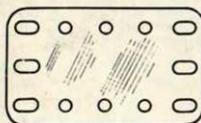
Flexible Plate
Placa flexible
Placa flexível
Bøjlig plåt
Bøyelig plate



188 - 2 1/2" x 1 1/2"; 60 x 38 mm
189 - 5 1/2" x 1 1/2"; 140 x 38 mm
190 - 2 1/2" x 2 1/2"; 60 x 60 mm

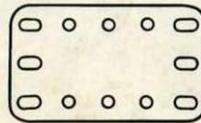
191 - 4 1/2" x 2 1/2"; 11.5 x 6 cm
192 - 5 1/2" x 2 1/2"; 14 x 6 cm

Plastic Plate (transparent)
Placa plástica
(transparente)
Placa de plástico
(transparente)
Plastplåt (transparent)
Plastplate
(gjennomsiktig)



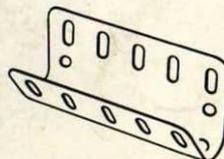
193 - 2 1/2" x 1 1/2"; 6 x 4 cm

Plastic Plate, (red)
Placa plástica (roja)
Placa de plástico
(vermelha)
Plastplåt (röd)
Plastplate (röd)



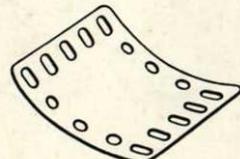
194a - 2 1/2" x 1 1/2"; 6 x 4 cm
194a - 2 1/2" x 2 1/2"; 6 x 6 cm

Curved Plate, U Section
Placa curva en U
Placa curva em U
Bågplåt
Buet plate, U-profile



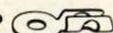
199

Curved Plate
Placa curva
Placa curva
Bågplåt
Buet plate



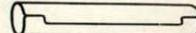
200

Rod and Strip
Connector
Pieza de
conexión para
varillas y tiras
Junção de
vareta e tira
Stång- och
remsa-
förbindning
Stang- og
barreforbinder



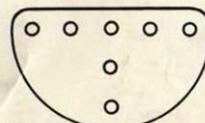
212

Rod Connector
Pieza de conexión
para varillas
Luva de varetas
Stångförbindning
Stangforbinder



213

Semi-circular Plate
Placa semi-circular
Placa semi-circular
Halvcirkelplåt
Halvsirkelformet plate



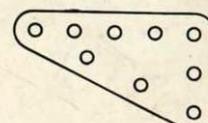
214

Formed Slotted Strip
Tira curvada de 75 mm
con muesca
Tira curvada com
ranhuras
Formad remsa med
springor
Tilformet barre



215

Triangular Flexible Plate
Placa flexible triangular
Placa flexível triangular
Trekantig bøjlig plåt
Trekantet bøyelig plate



221