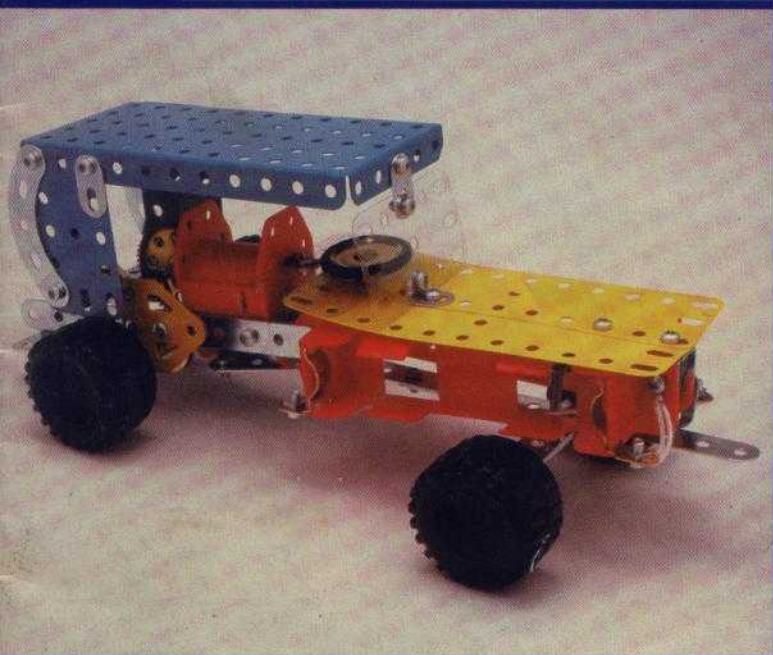
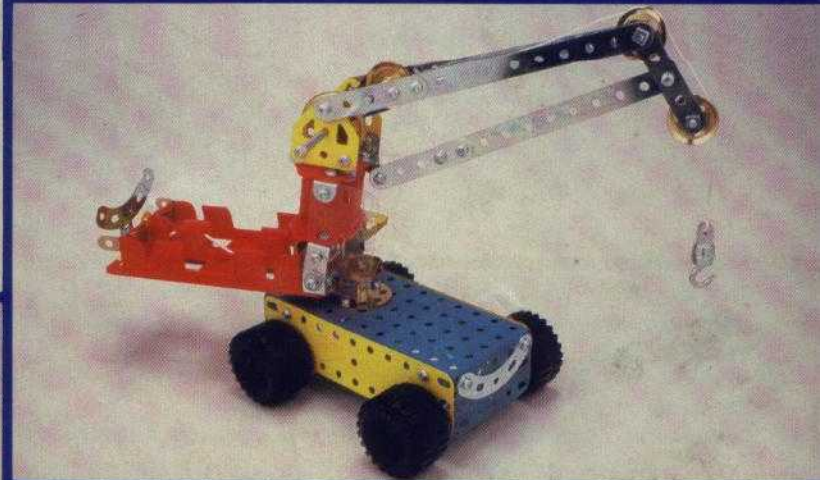
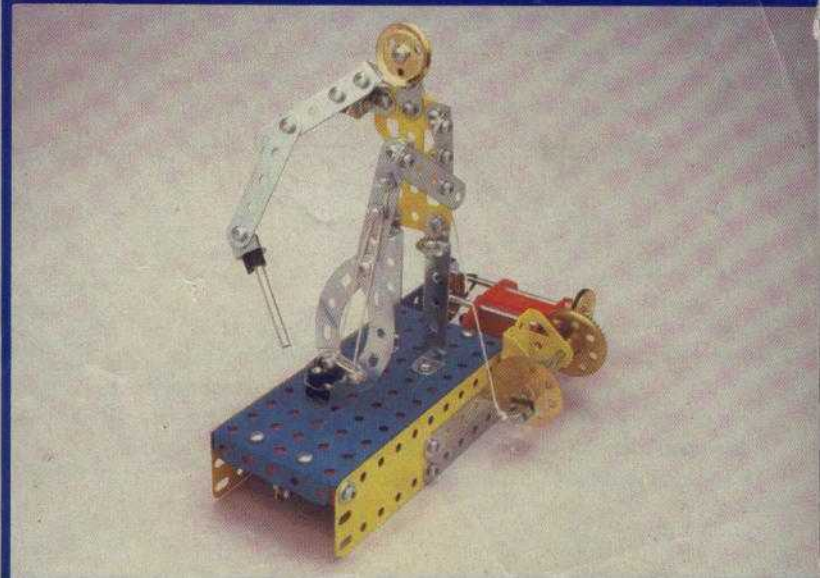
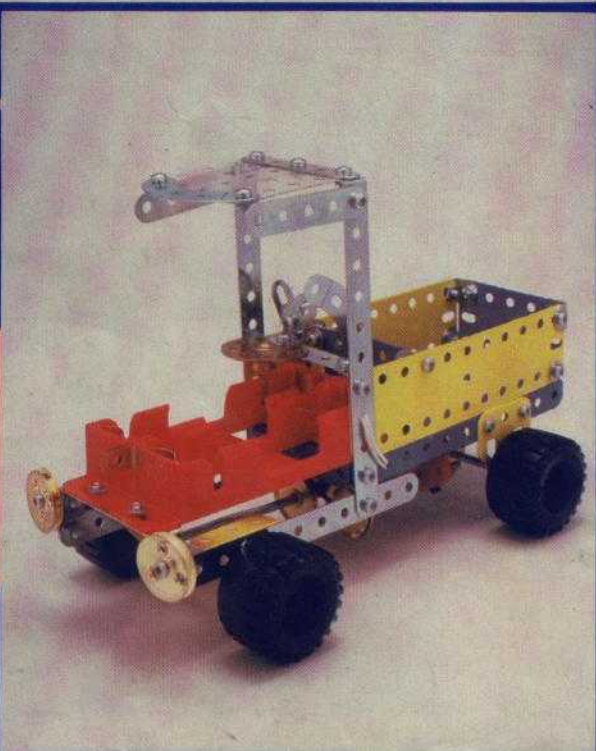


2



MECCANO

Using the electric motor
Motorisation électrique
Motorisierung elektrisch
Elektrische Krachtbron
Motorizzazione elettrica
Motorización eléctrica





A practical box.



Une boîte pratique.



Eine praktische Schachtel.



Een praktische doos.



Una scatola pratica.



Una caja práctica.

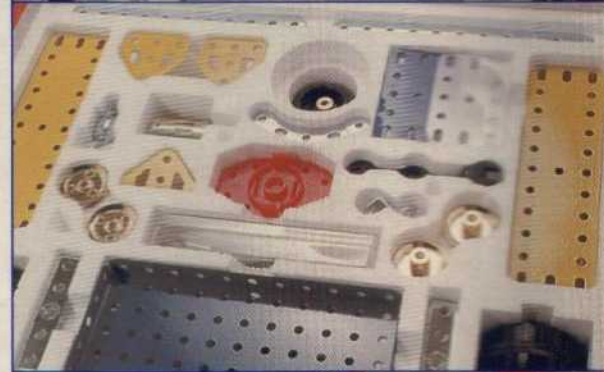
- To store the instruction books.
- Pour ranger les notices.
- Zum Einordnen der Notizen.
- Voor het opbergen van de handleidingen.
- Sistemazione dei manuali d'istruzioni.
- Para guardar las instrucciones o folletos.

- To gain access to the pieces, cut along the dotted line.
- Pour accéder aux pièces, découper en suivant les pointillés.
- Um zu den Teilen zu gelangen auf der gepunkteten Linie ausschneiden Als Zugang zu den Einzelteilen.
- Om bij de onderdelen te komen knippen langs de stippellijnen.
- Per prendere i pezzi ritagliare seguendo la punteggiatura.
- Para tener acceso a las piezas recortar según línea de puntos.

- To store the pieces:
A storage box designed to accommodate complementary boxes 2X and 3X.
- Pour ranger les pièces:
Module de rangement conçu pour recevoir le contenu des boîtes complémentaires 2X et 3X.
- Zum Einordnen der Teile, Ablegemodul welches den Inhalt der Zusatzschachteln 2X und 3X aufnehmen kann.
- Opbergen van de onderdelen:
speciale opbergmodule voor inhoud van aanvullingsdozen 2X en 3X.
- La sistemazione dei pezzi nella scatola e' stata concepita in modo da poter contenere anche i pezzi delle scatole di conversione 2X e 3X.
- Para guardar las piezas:
Módulo de colocación en orden diseñado para guardar el contenido de las cajas complementarias 2X y 3X.

- To keep the lid closed, use the two velcro self-adhesive strips.
- Pour maintenir fermé le couvercle 2 pastilles velcro autocollantes.
- Um den Deckel zu befestigen 2 selbstklebende Velcro-Scheiben.
- Om het deksel sekuur te sluiten 2 zelfklevende "Velcro"-pastilles.
- 2 autoadesive velcro servono per tener chiuso il coperchio.
- Para mantener sujeta la tapa 2 discos velcro autoadhesivos.

- To help carry the box: an adjustable handle on the back.
- Pour transporter la boîte: une poignée adaptable au dos.
- Ein am Rücken zu befestigender Handgriff zum Transportieren der Schachtel.
- Voor transport van de doos een aan de achterkant aan te brengen handvat.
- Una impugnatura per il trasporto adattabile al retro della scatola.
- Para transportar la caja: un asa adaptable al dorso.





How to install the Meccano motor.



Comment monter le moteur Meccano.



Montage-Anleitung für Meccano-Motor.



Hoe de Meccano-motor de monteren.



Come montare il motorino elettrico Meccano.



Cómo montar el motor Meccano.

The Battery case.

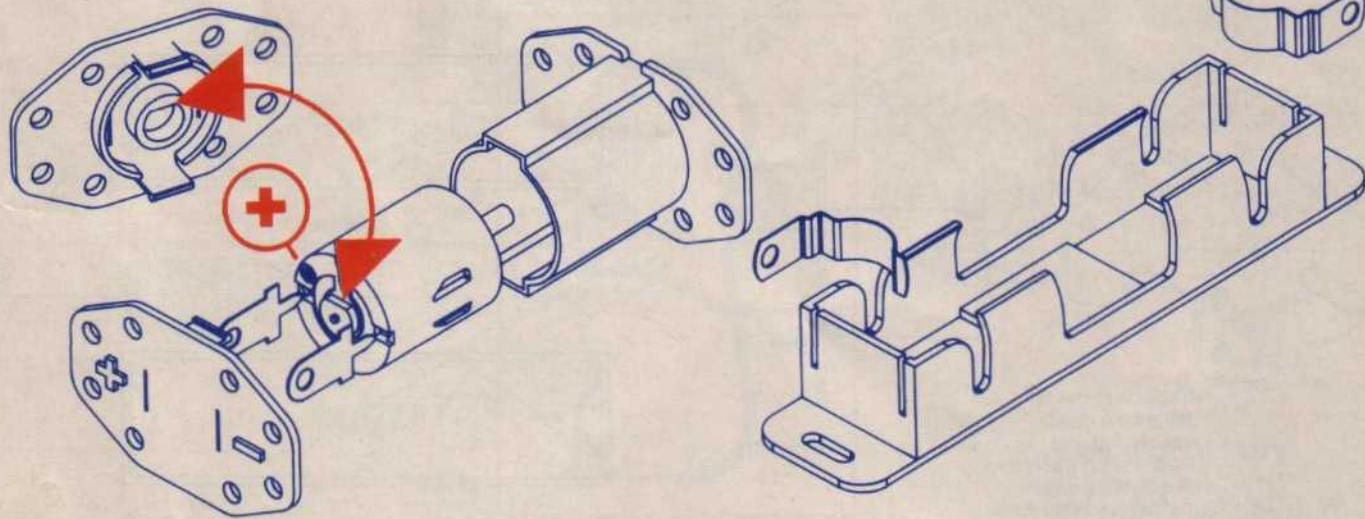
Le boîtier à piles.

Batterie-Gehäuse.

De batterijenkast.

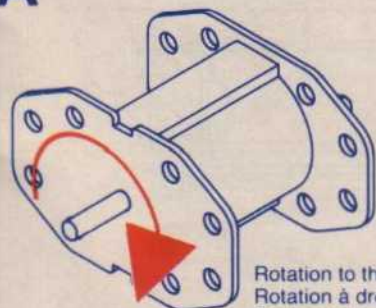
La scatola portapile.

La caja de pilas.

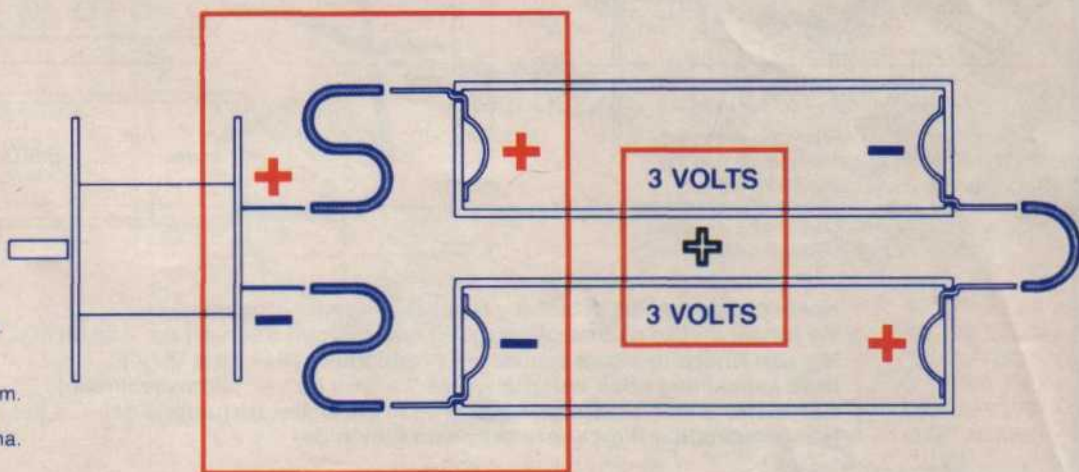


- Two pairs of connections to change the direction of the motor's rotation. Motor speed 12500 Rpm at 6V.
- Deux branchements électriques suivant le sens désiré de rotation du moteur (puissance 6 Volts - 12500 tr/mn).
- Zwei elektrische Anschlüsse, je nach der gewünschten Drehrichtung des Motors (Strom 6 Volt - 12500 Drehungen pro Minute).
- Twee elektrische aansluitmogelijkheden al naar gelang de gewenste draairichting van de motor (vermogen 6 Volt, 12500 tr/mn).
- Due collegamenti elettrici secondo il senso desiderato di rotazione del motorino (6 volt-12500 giri al minuto).
- Dos conexiones eléctricas según el sentido deseado de rotación del motor (potencia 6 voltios - 12500 r.p.m.).

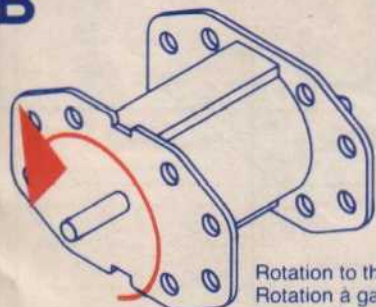
A



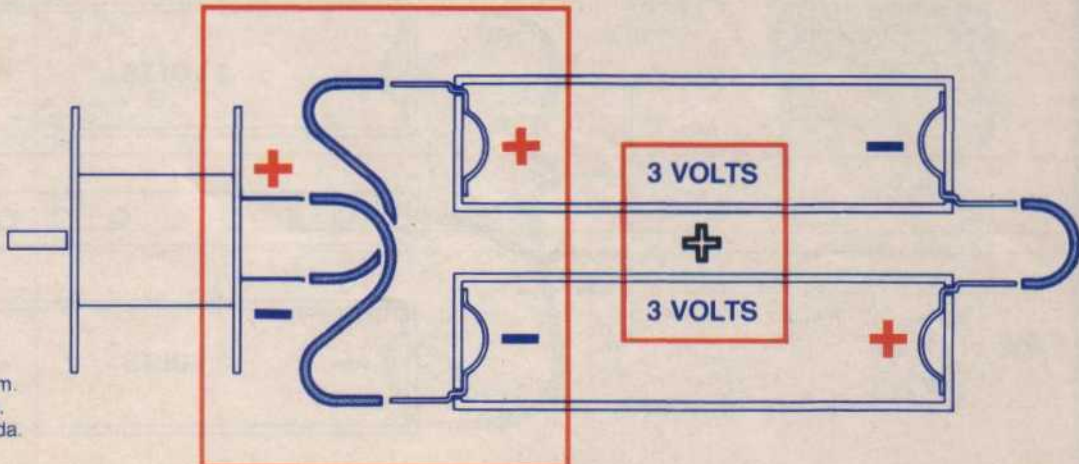
Rotation to the right.
 Rotation à droite.
 Rechtsdrehung.
 Draairichting rechtsom.
 Rotazione a destra.
 Rotación a la derecha.



B



Rotation to the left.
 Rotation à gauche.
 Linksdrehung.
 Draairichting linksom.
 Rotazione a sinistra.
 Rotación a la izquierda.





Forward/reverse drive control. Motor speed 6400 Rpm at 3V.



Branchement électrique pour créer un inverseur de marche (puissance 3V - 6400 tr/mn).



Elektrischer Anschluss für Rückwärtsgang (Strom 3 Volt - 6400 Umdrehungen pro Minute).



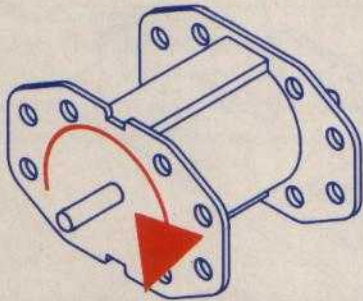
Elektrische aansluiting voor het creëren van een voor- en achteruitschakelaar (vermogen 3 Volt, 6400 tr/mn).



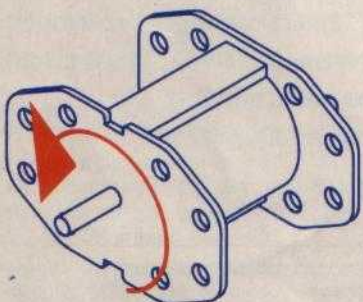
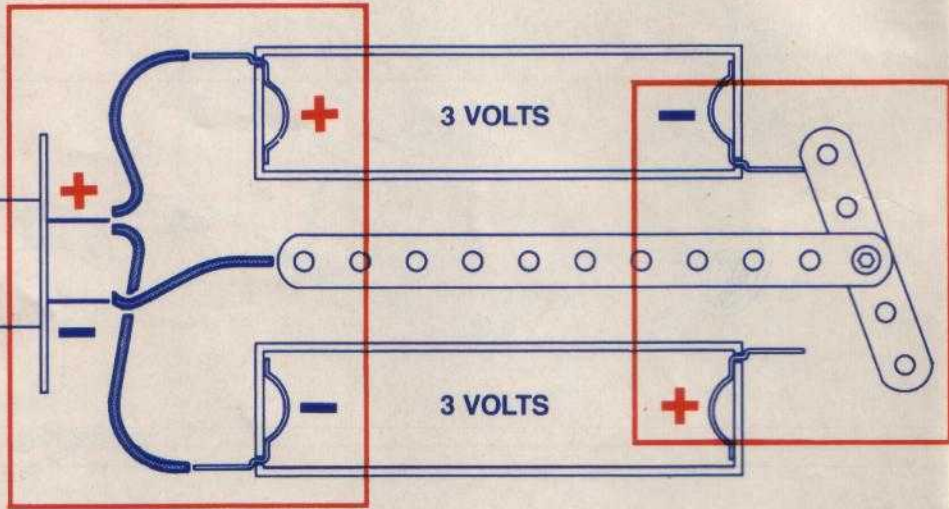
Collegamento elettrico per ottenere l'inversione della marcia (3 Volt - 6400 giri al minuto).



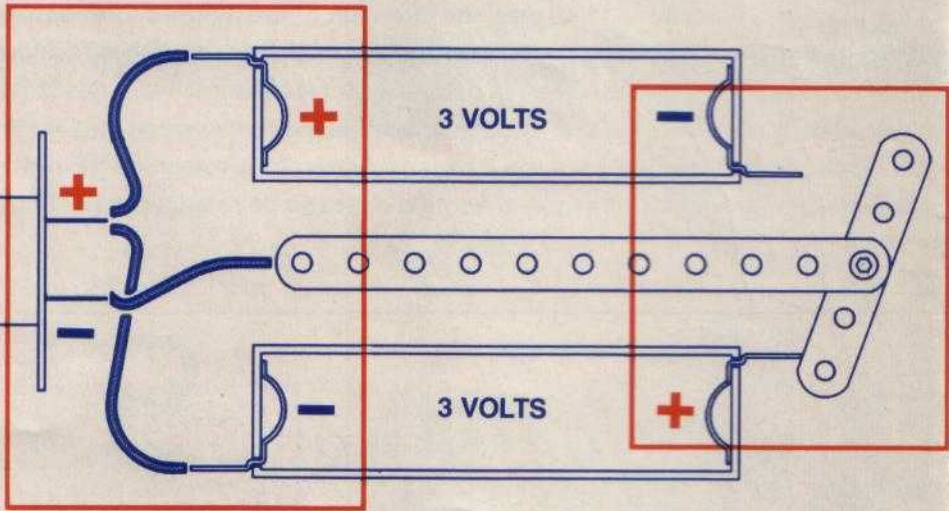
Conexión eléctrica para crear un inversor de marcha (potencia 3 voltios - 6400 r.p.m.).



Rotation to the right.
Rotation à droite.
Rechtsdrehung.
Draairichting rechtsom.
Rotazione a destra.
Rotación a la derecha.

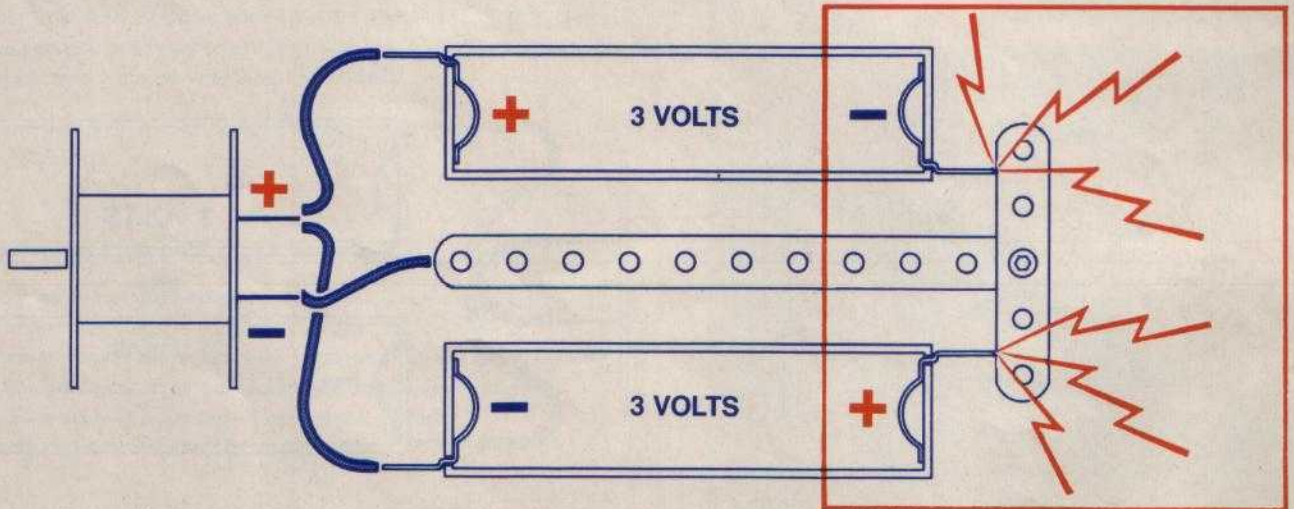


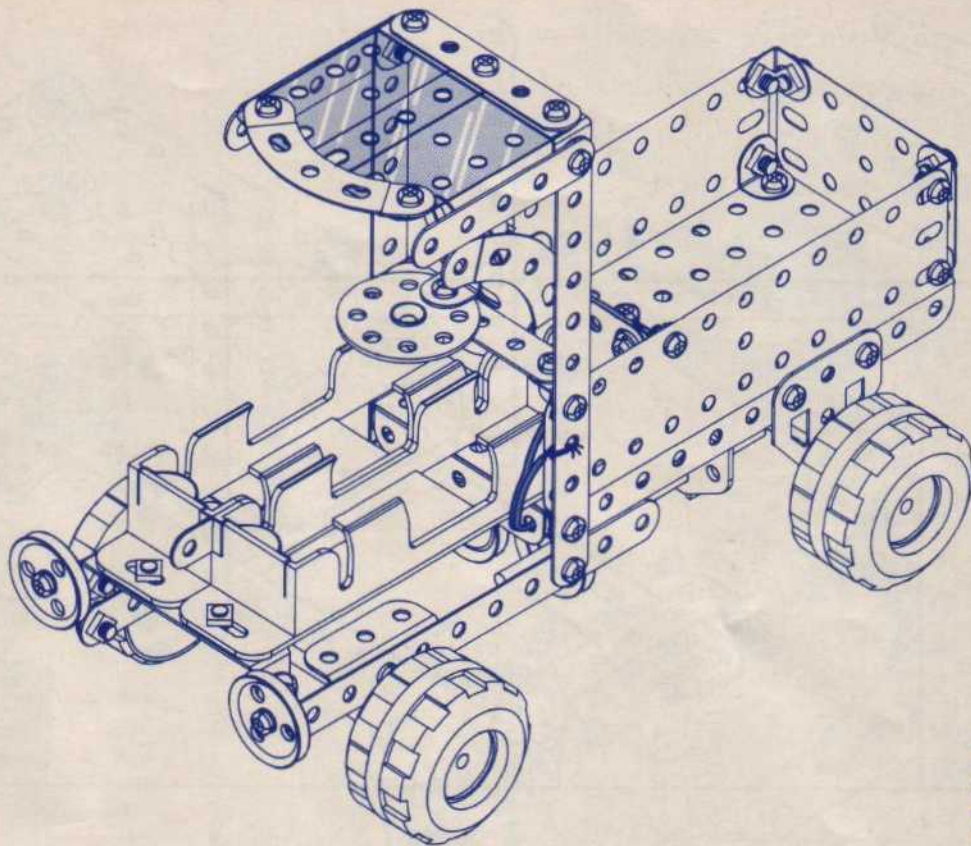
Rotation to the left.
Rotation à gauche.
Linksdrehung.
Draairichting linksom.
Rotazione a sinistra.
Rotación a la izquierda.



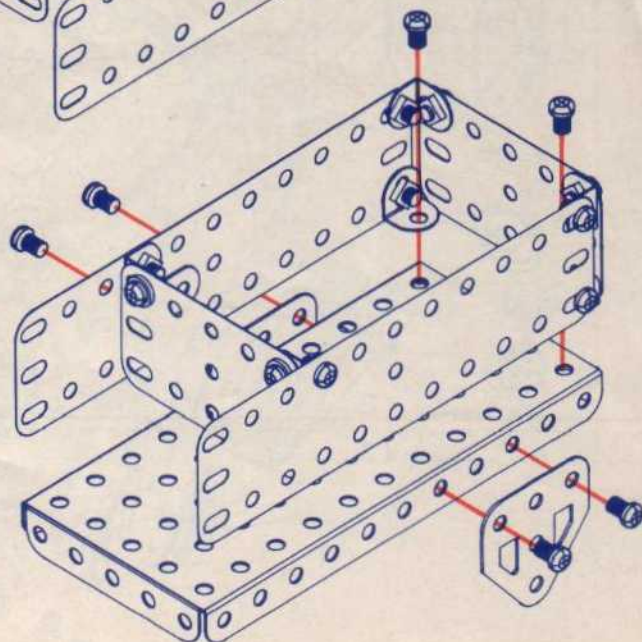
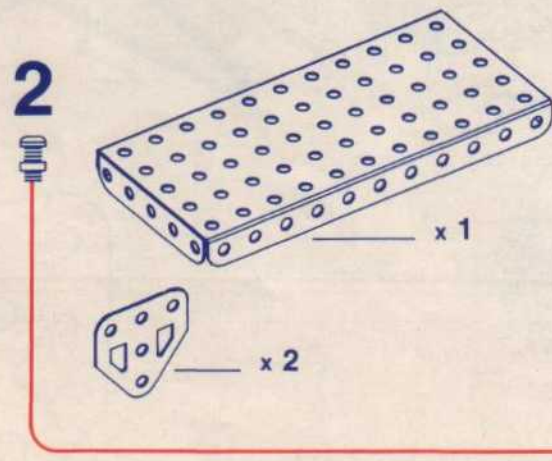
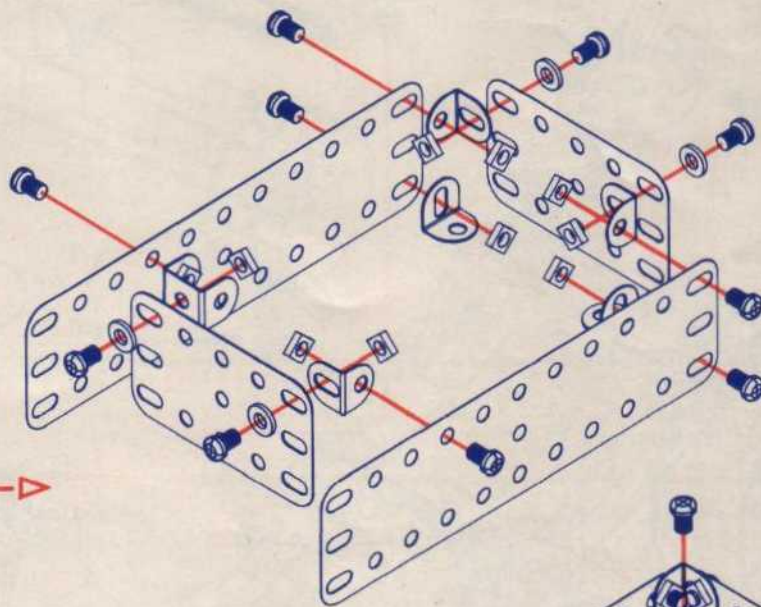
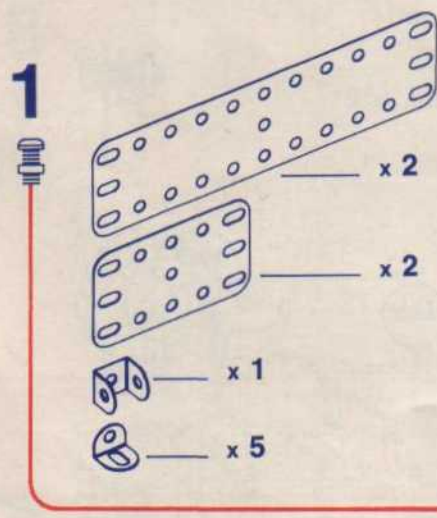
- ATTENTION
- ATTENTION
- ACHTUNG
- LET OP
- ATTENZIONE
- ¡CUIDADO!

Never create a short circuit (by touching + and - together).
Ne jamais mettre ce branchement en court-circuit (réunion du + et du -).
Nie den Anschluss kurz schliessen (Verbindung DU + und DU -).
deze aansluiting nooit kortsluiten (da "+" en de "-" doorverbinden).
Non mettere mai questo collegamento in cortocircuito (unione del + e del -).
No cortocircuitar nunca esta conexión (unión de + y -)



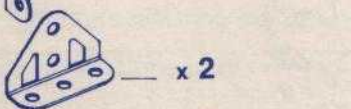
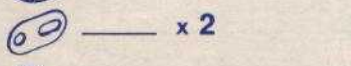
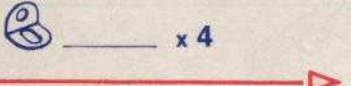


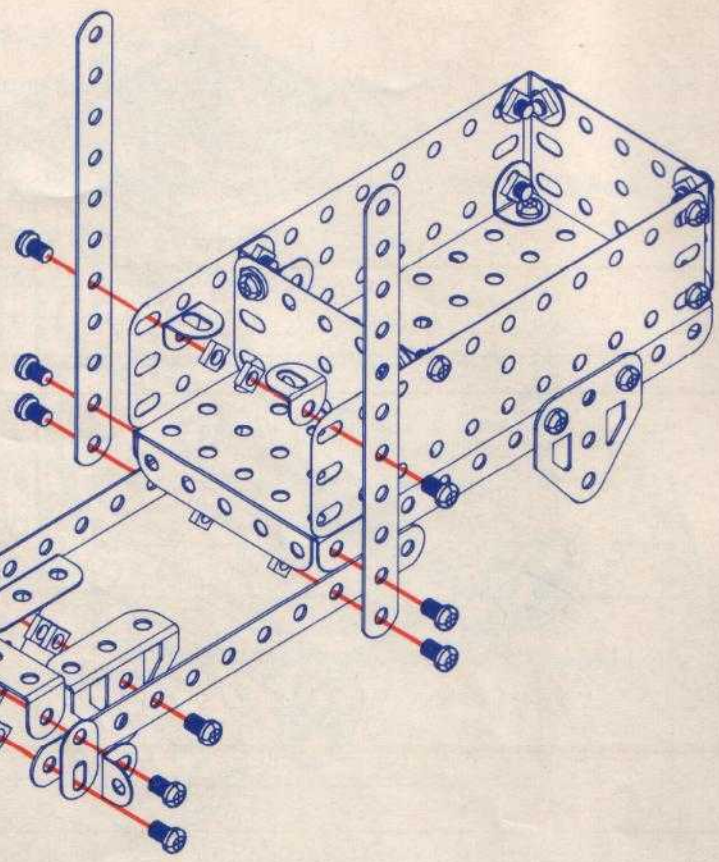


Traditional lorry
Camion ancien
Oldtimer lastwagen
Ouderwetse vrachtauto
Autocarro antico
Camión antiguo


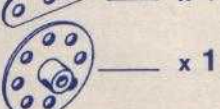

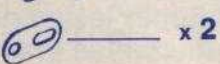


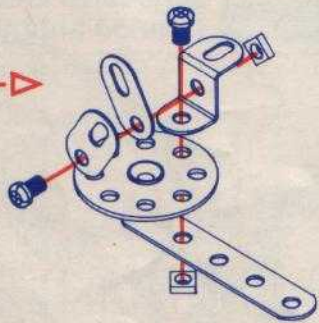
3

-  x 4
-  x 1
-  x 2
-  x 2
-  x 4


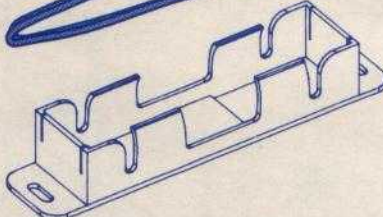

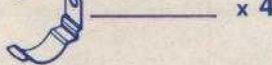


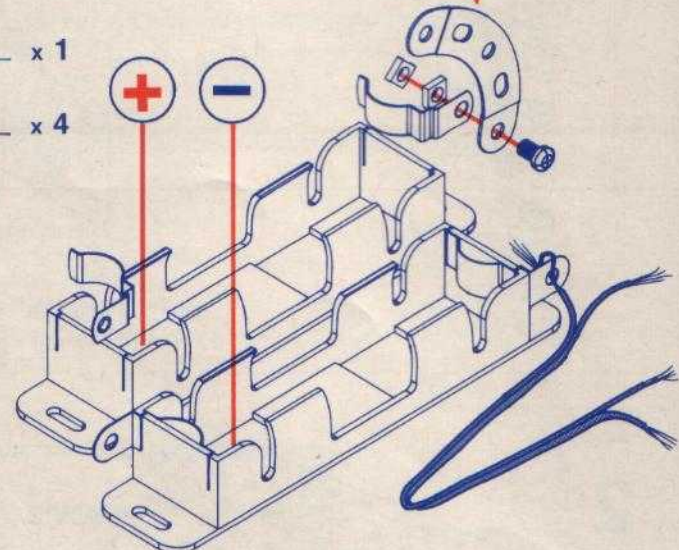
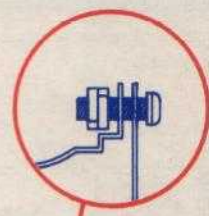
4

-  x 1
-  x 1
-  x 1
-  x 2


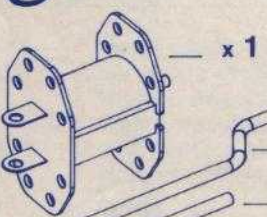




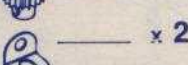




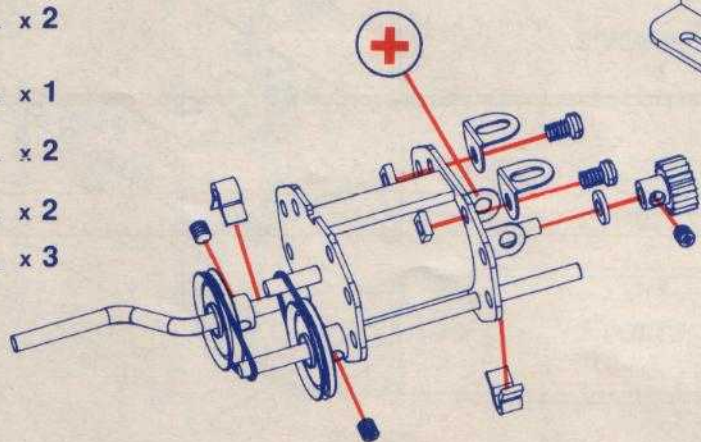
5

-  20 CM
-  x 2
-  x 1
-  x 4









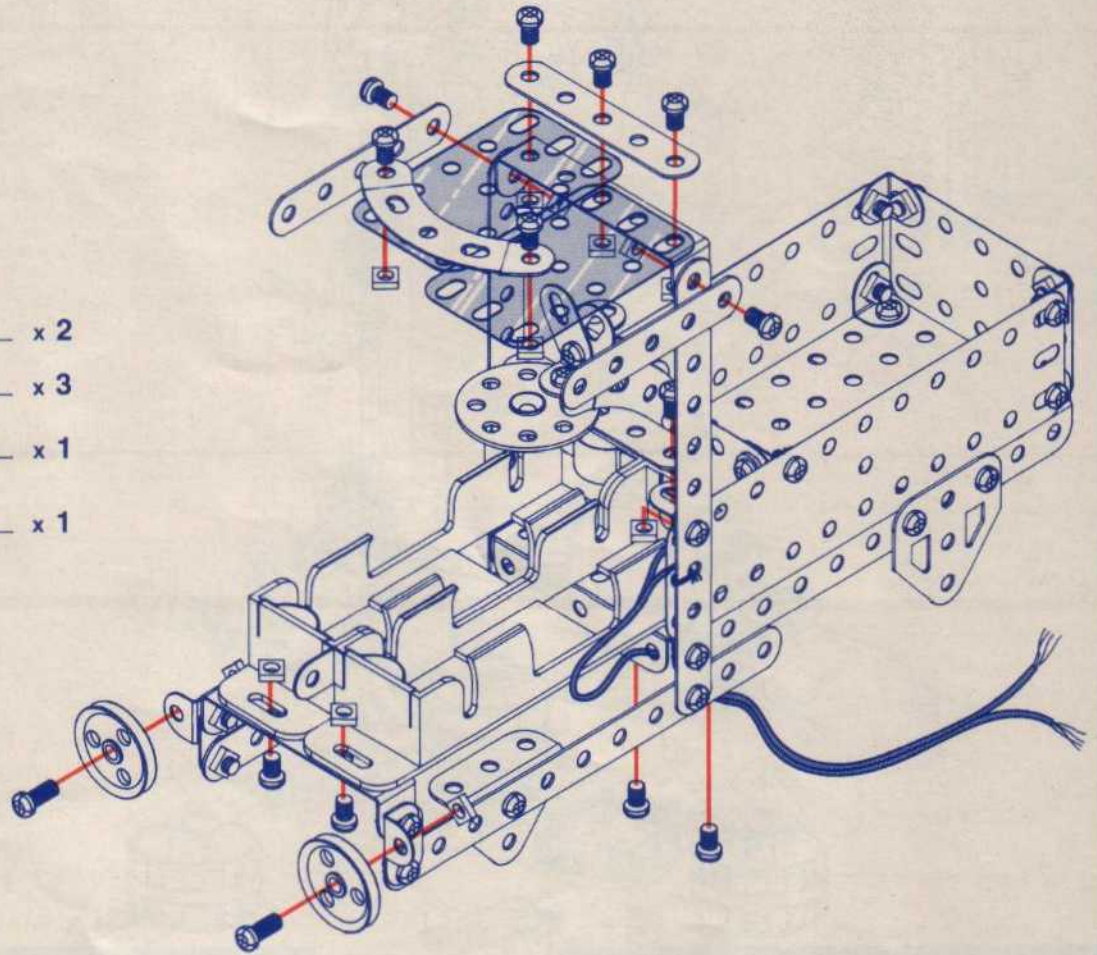
6

-  x 2
-  x 1
-  x 1
-  x 1
-  x 2
-  x 1
-  x 2
-  x 2
-  x 3




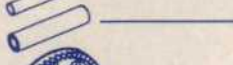





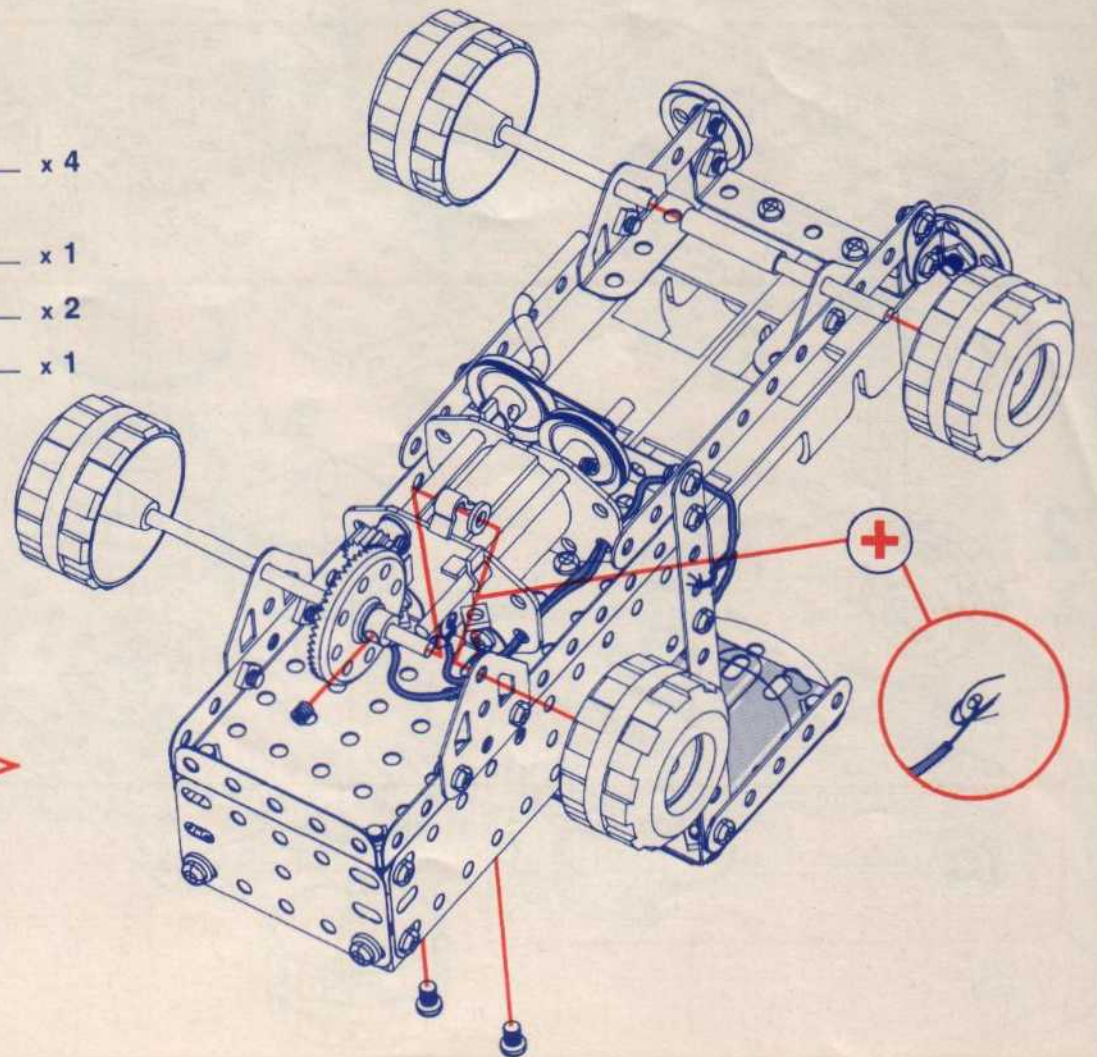
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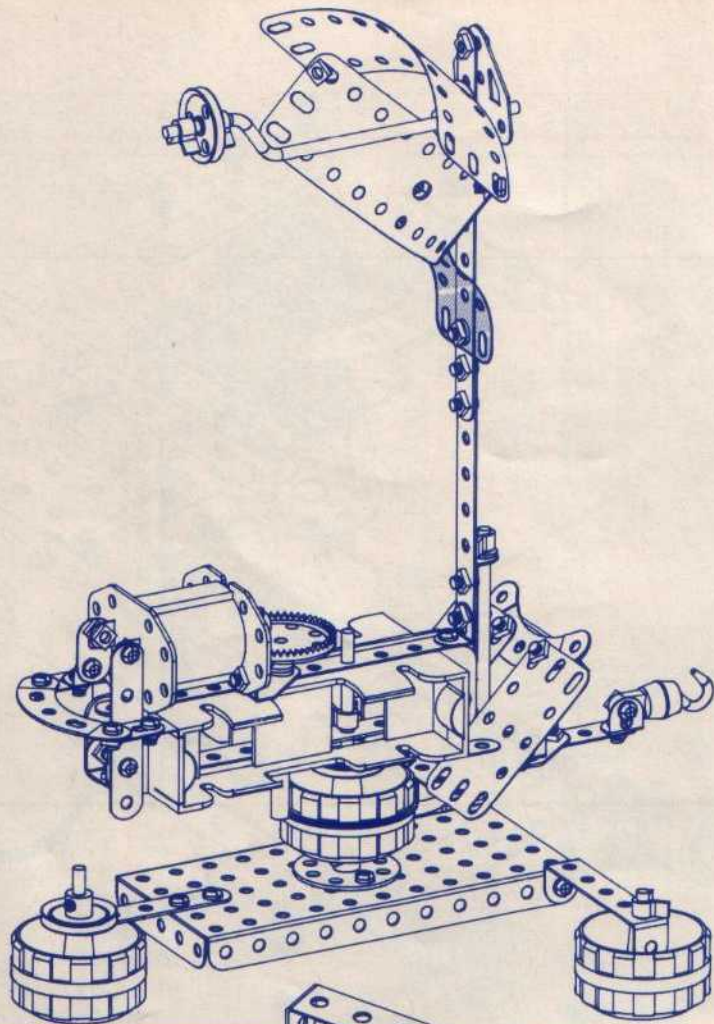
- 3 + 4 + 5 +
-  x 2
-  x 3
-  x 1
-  x 1
-  x 2
-  x 2



8

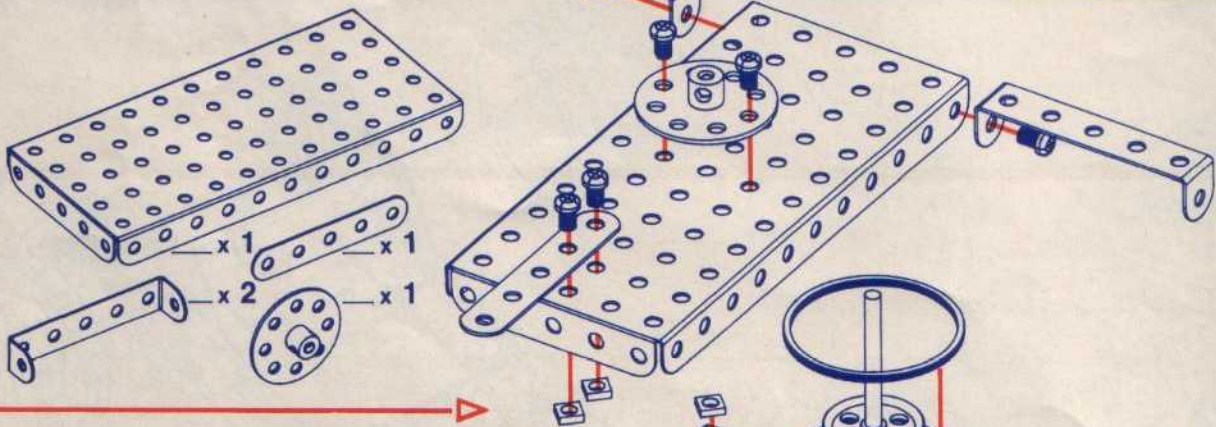
- 6 + 7 +
-  x 4
-  x 1
-  x 2
-  x 1
-  x 1
-  x 1
-  x 1



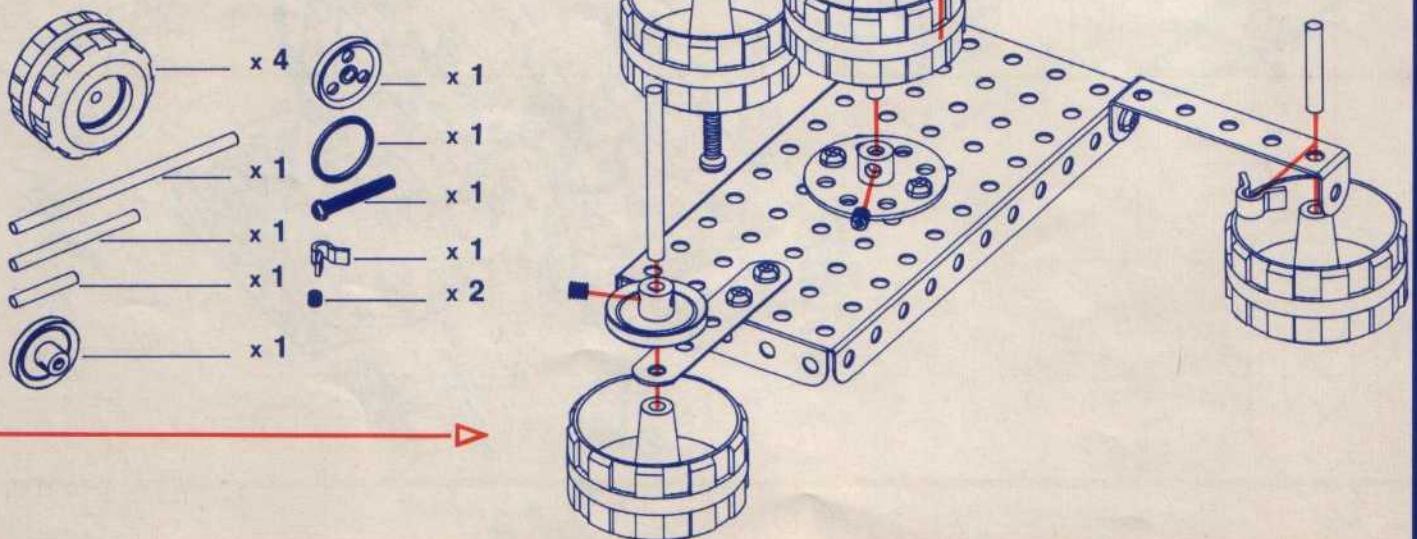






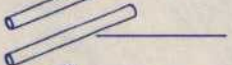

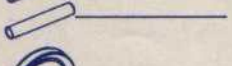

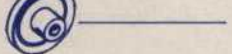


Radar

1


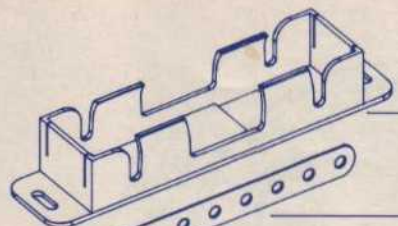







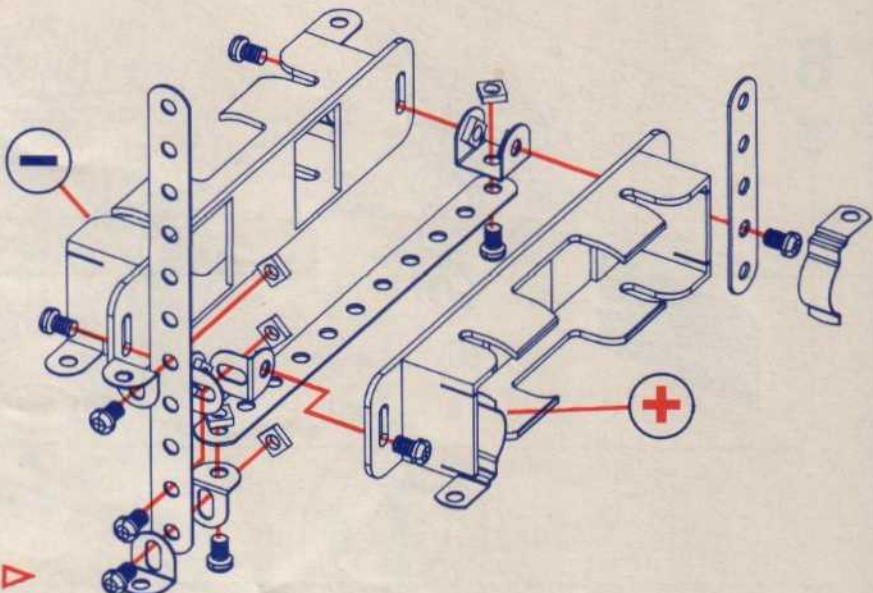
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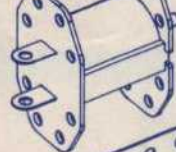
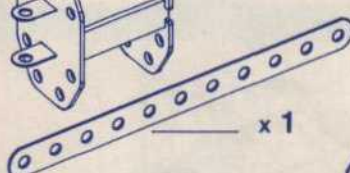






-  x 4
-  x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 2
-  x 1

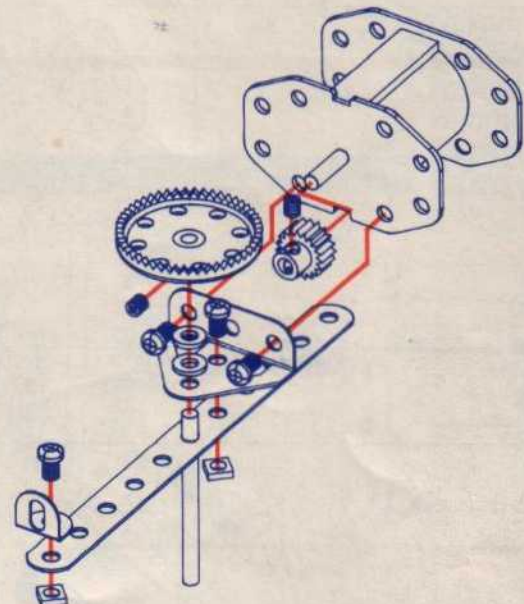
3

-   x 2
-  x 2
-  x 1
-  x 4
-  x 1
-  x 5








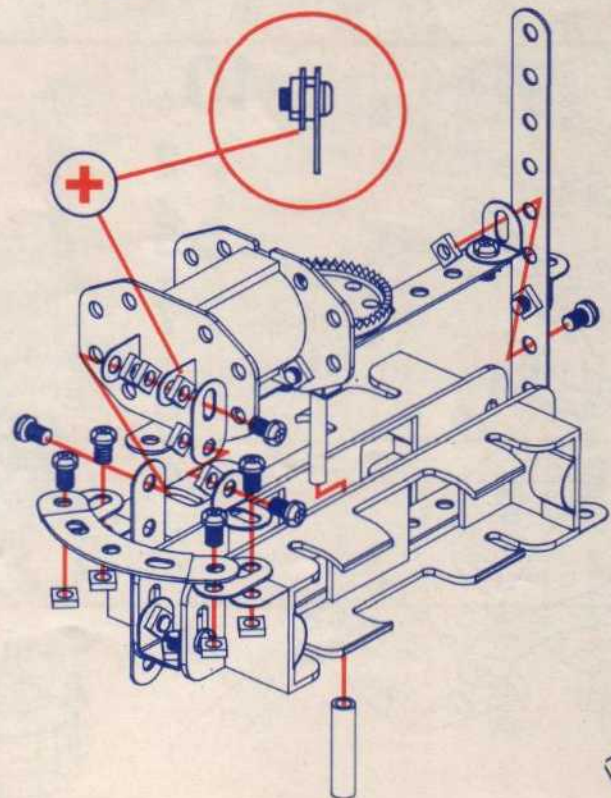
4

-   x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 1
-  x 2

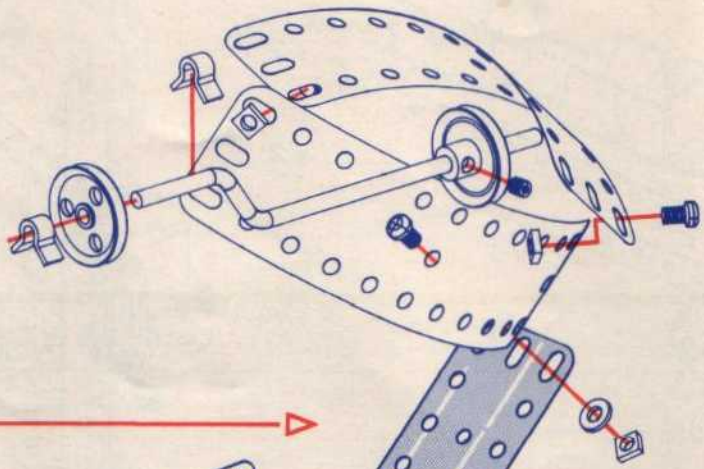
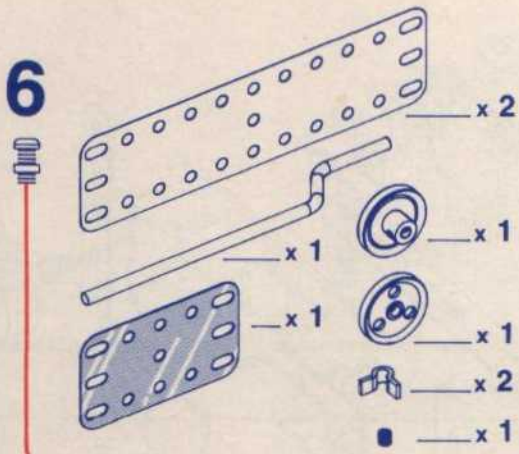


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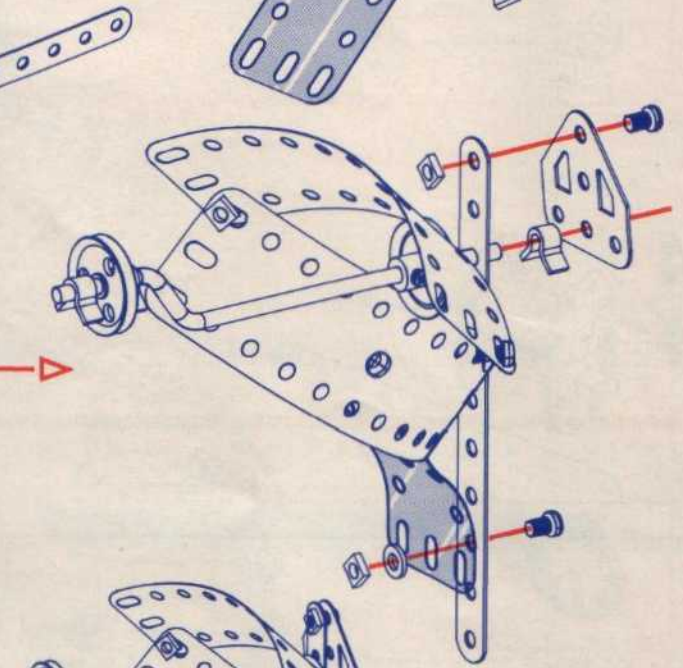
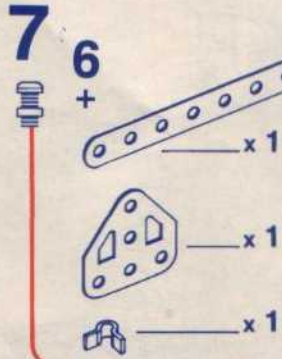
-   x 1
-  x 1
-  x 3
-  x 1



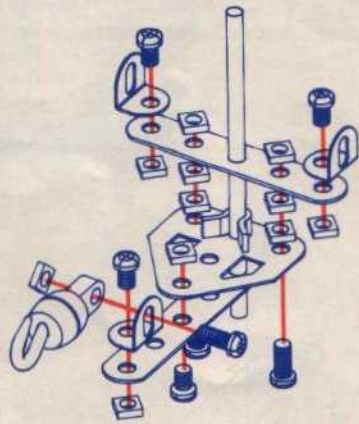
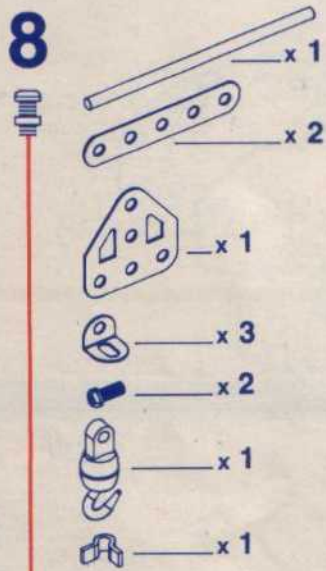
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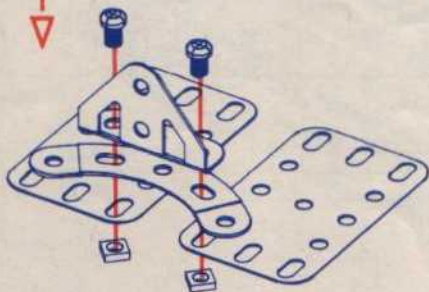
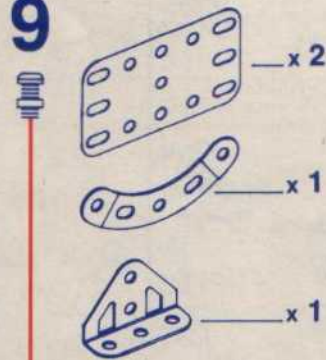
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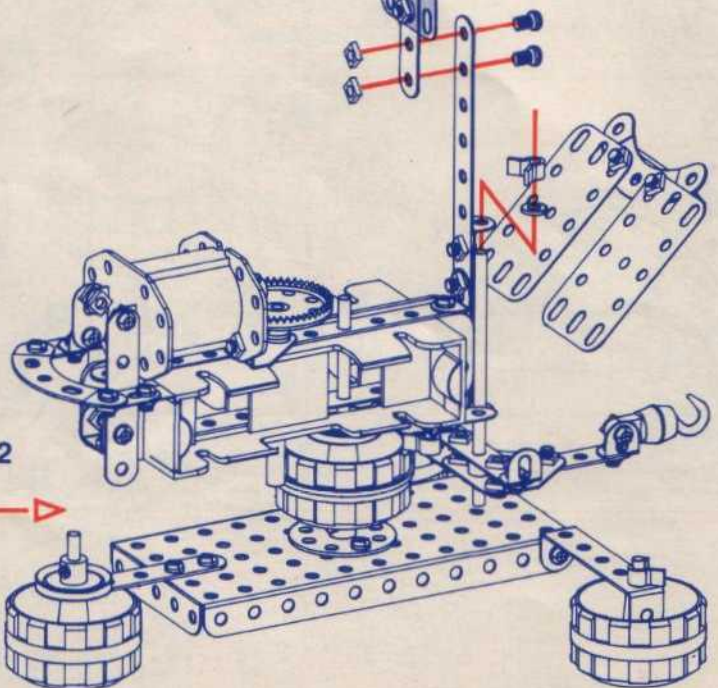
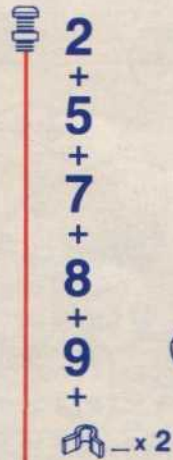
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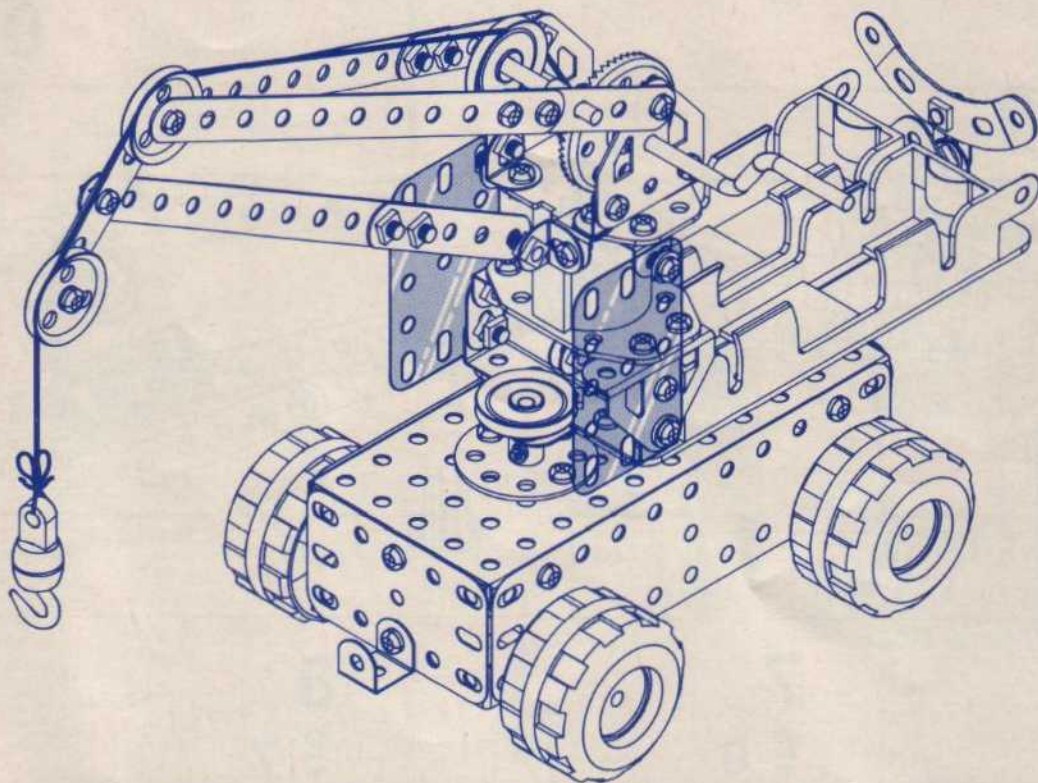


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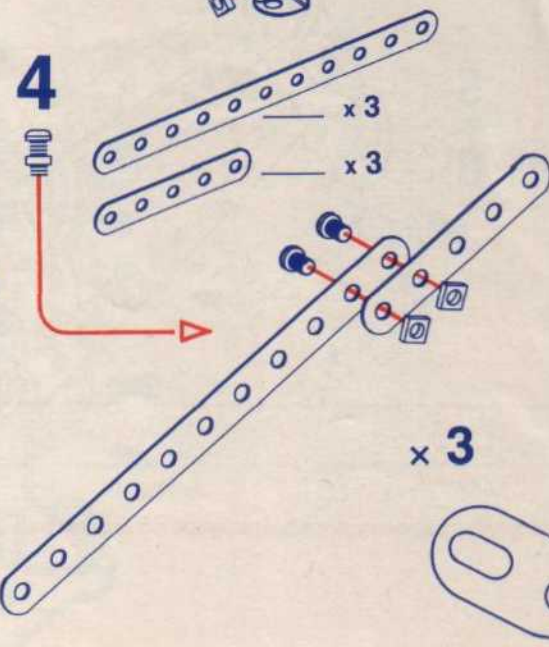
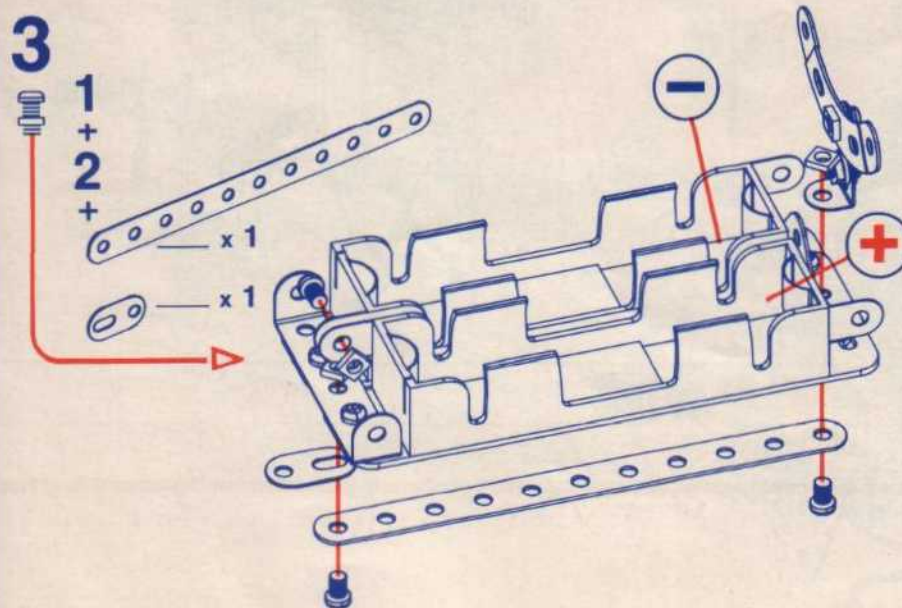
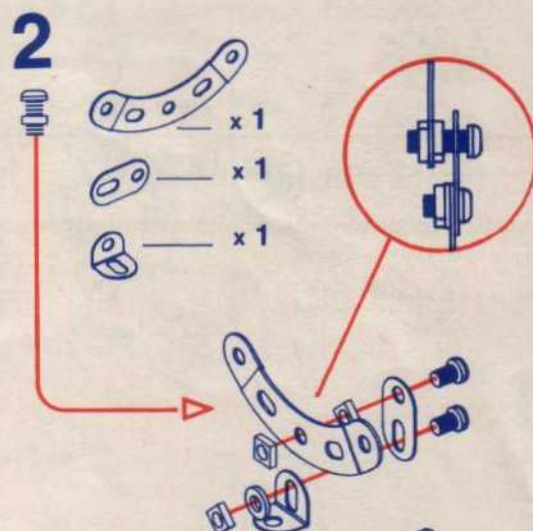
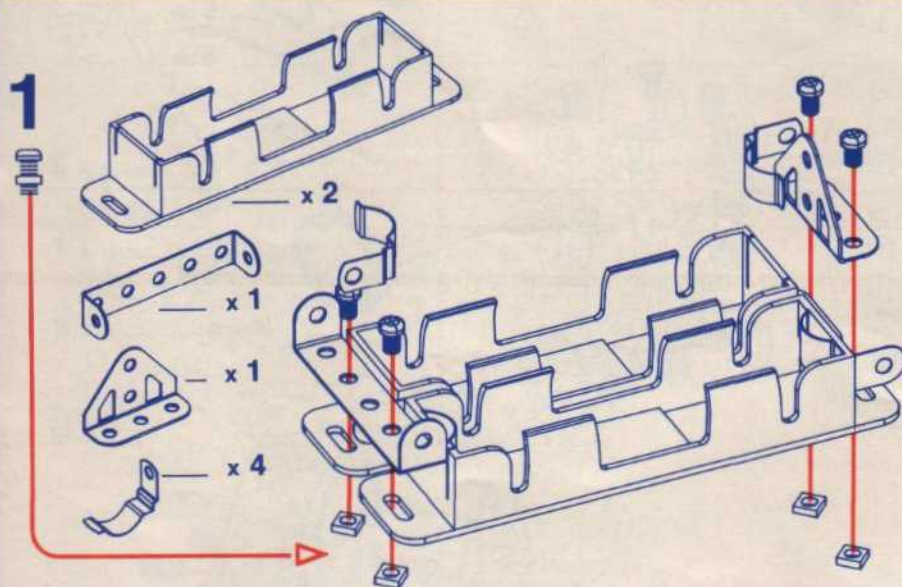


10

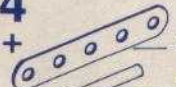








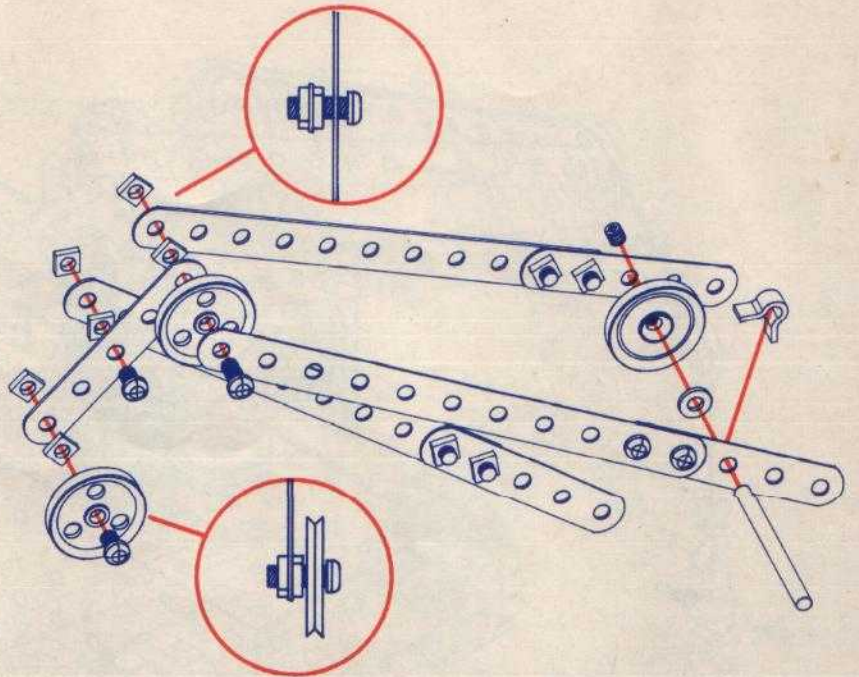


Crane
 Chariot grue
 Kranwagen
 Rijdende kraan
 Carro gru
 Carro grúa

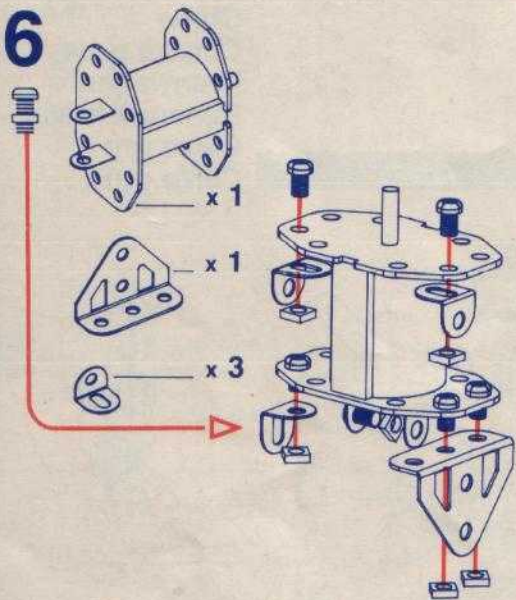


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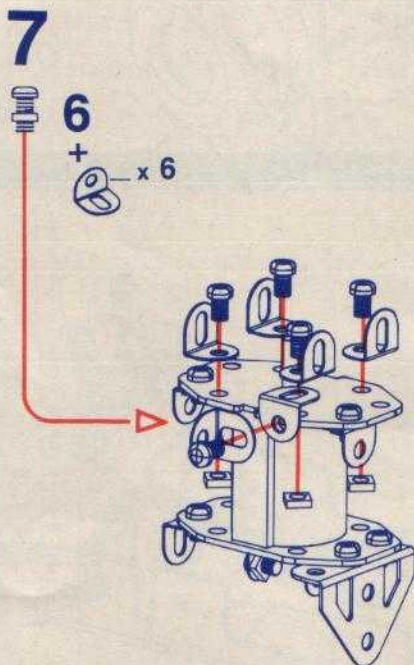
- 4 +
-  x 1
-  x 1
-  x 2
-  x 1
-  x 1
-  x 1
-  x 1



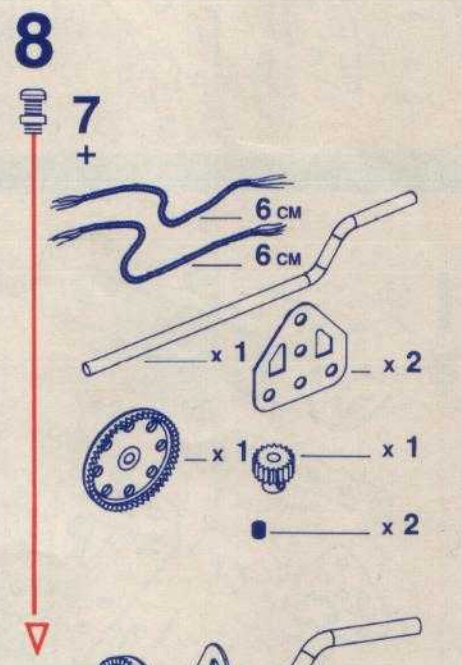
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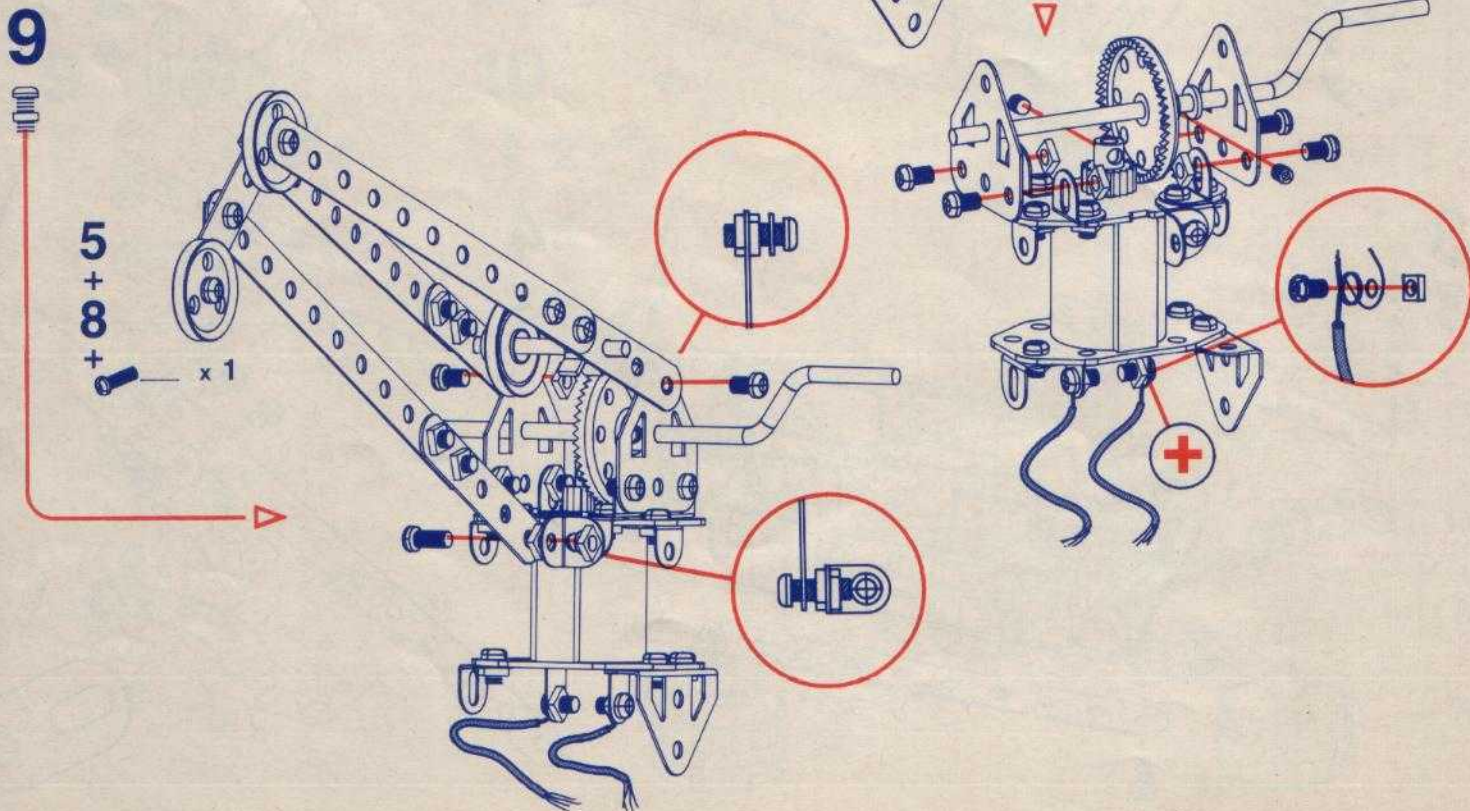
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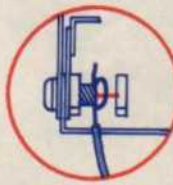
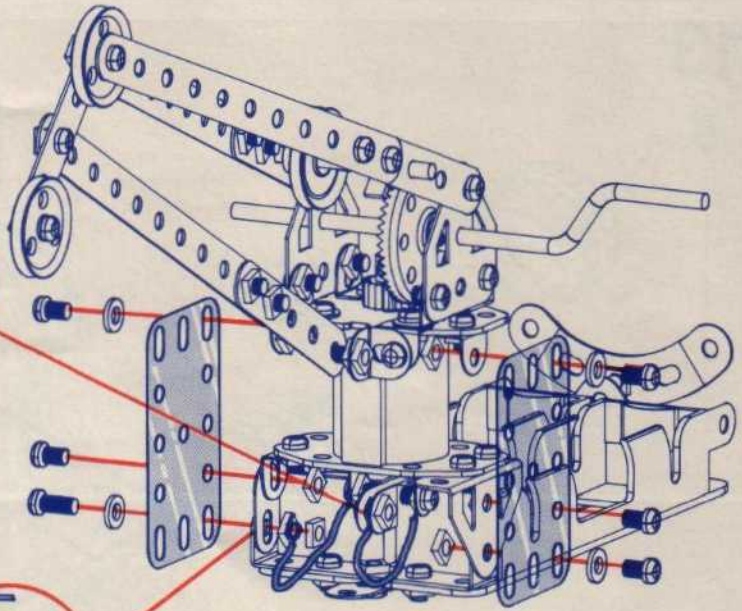
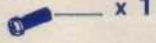
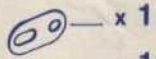
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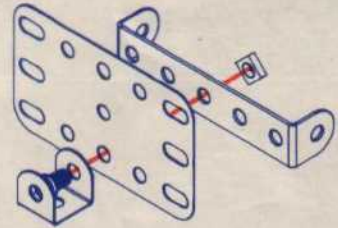
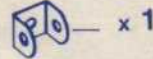
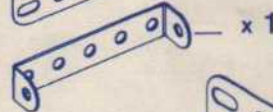
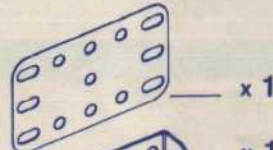
10



3
+
9
+



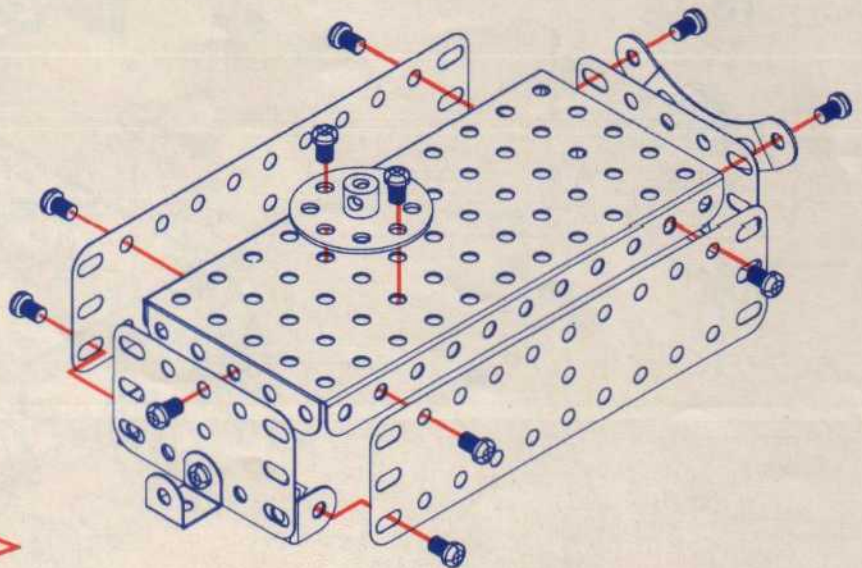
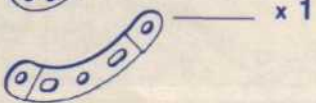
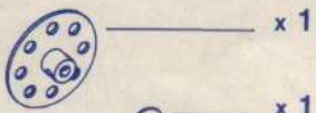
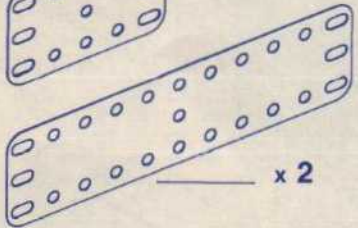
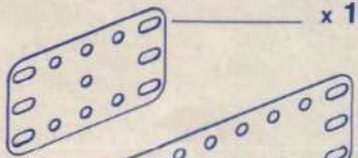
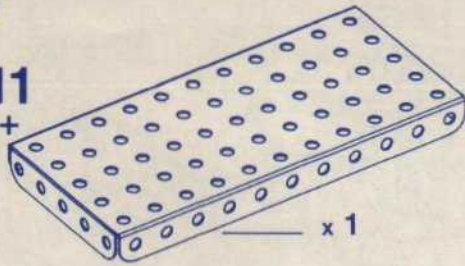
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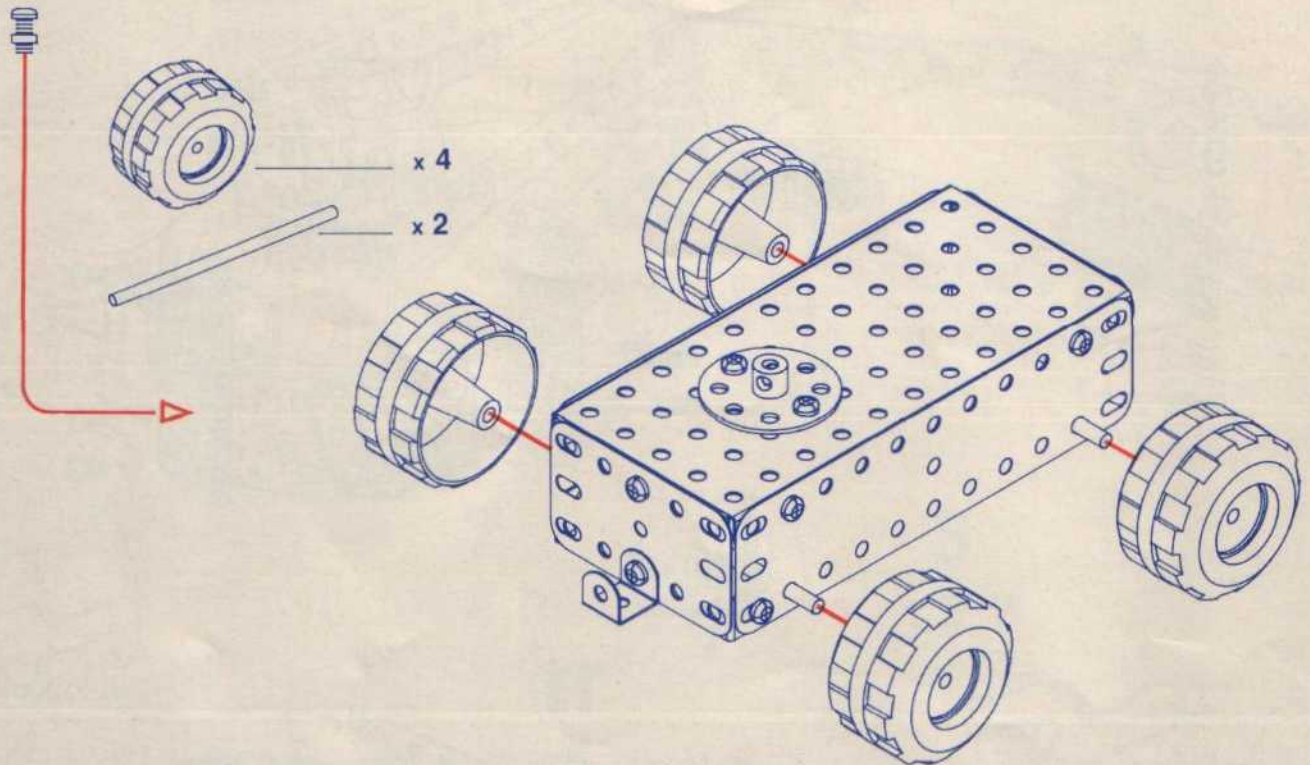
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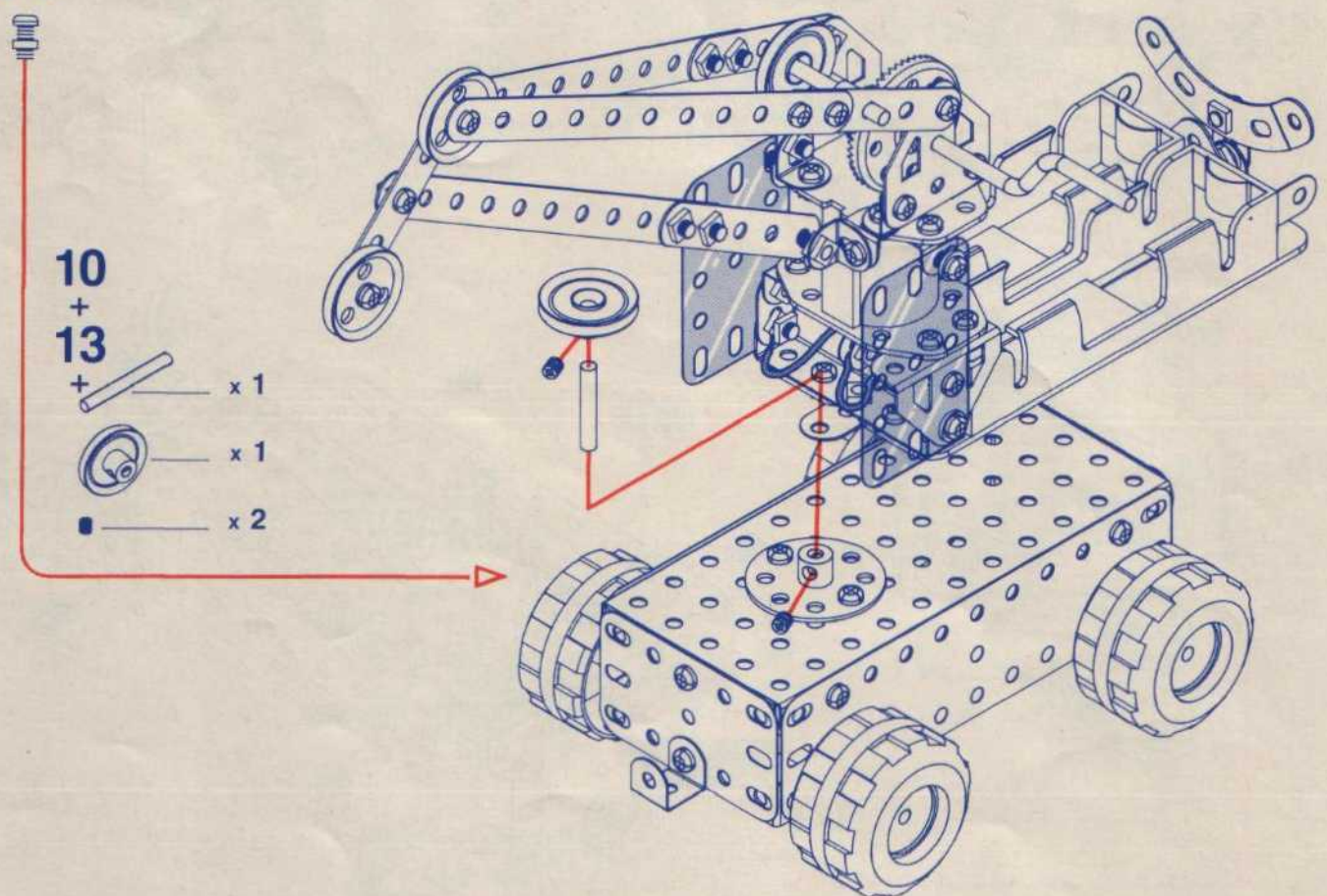
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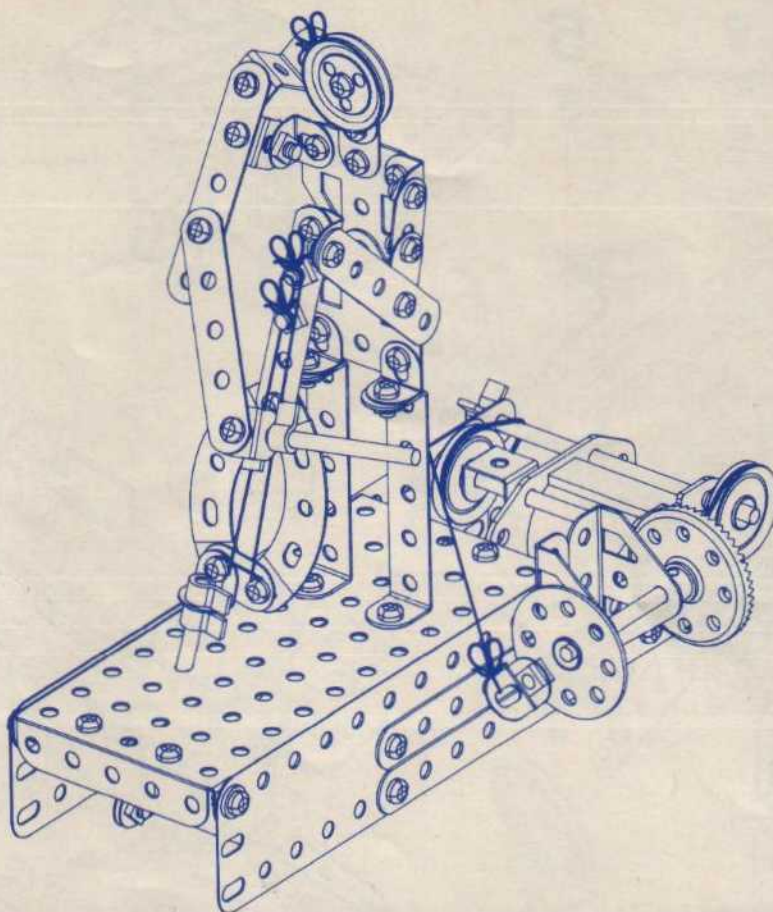


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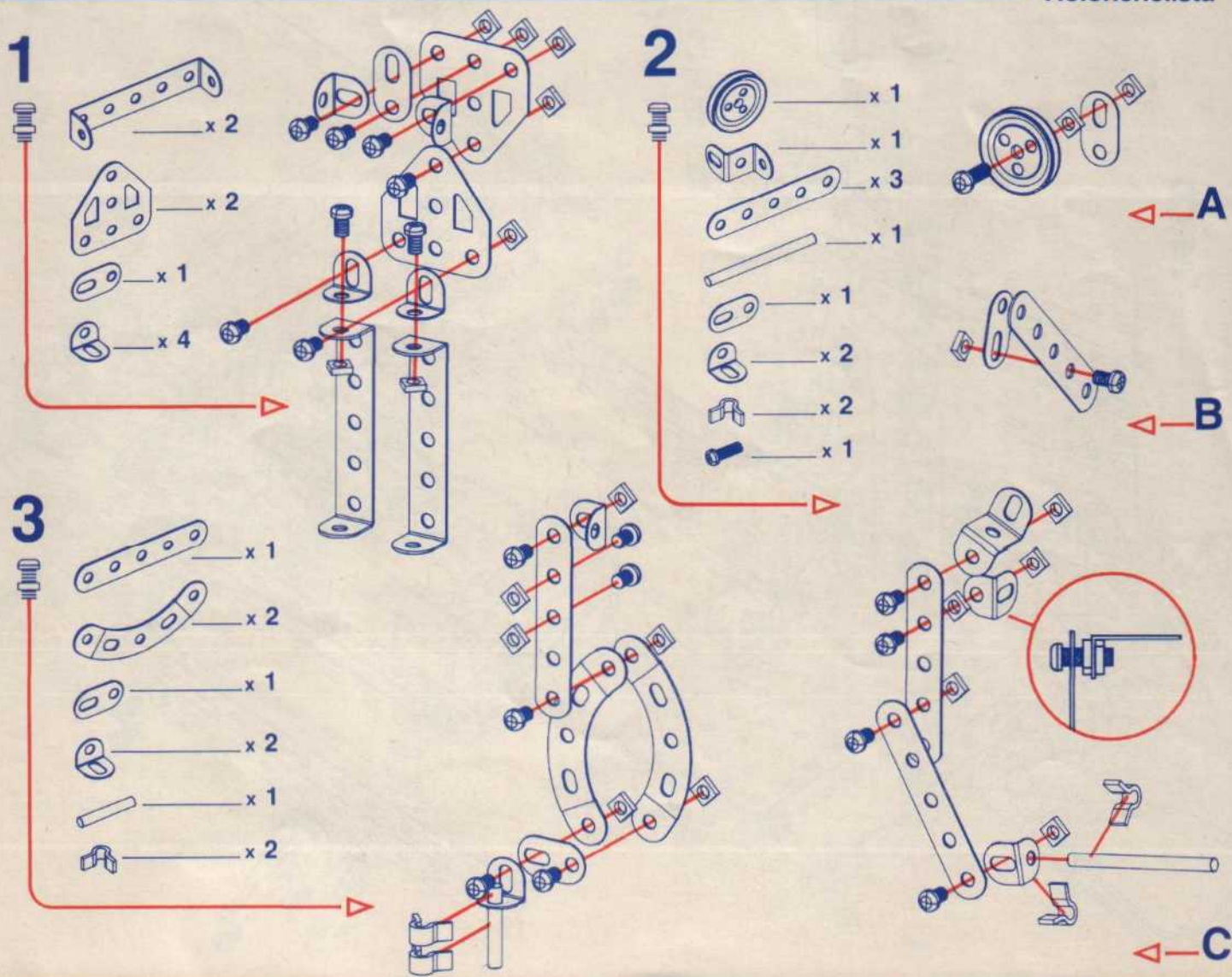


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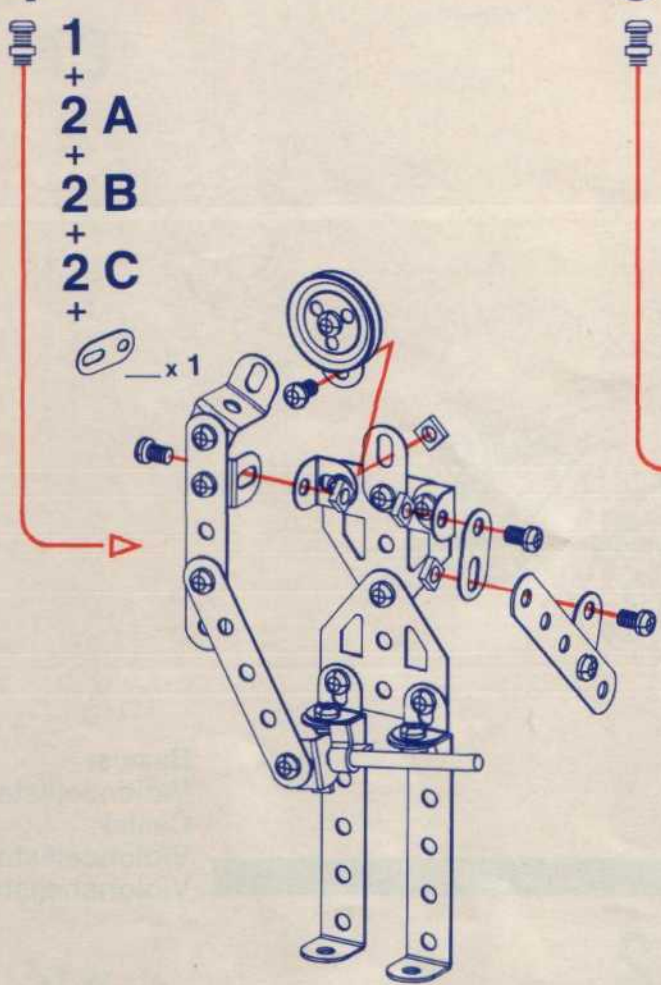


Bassist
Violoncelliste
Cellist
Violoncellista
Violonchelista

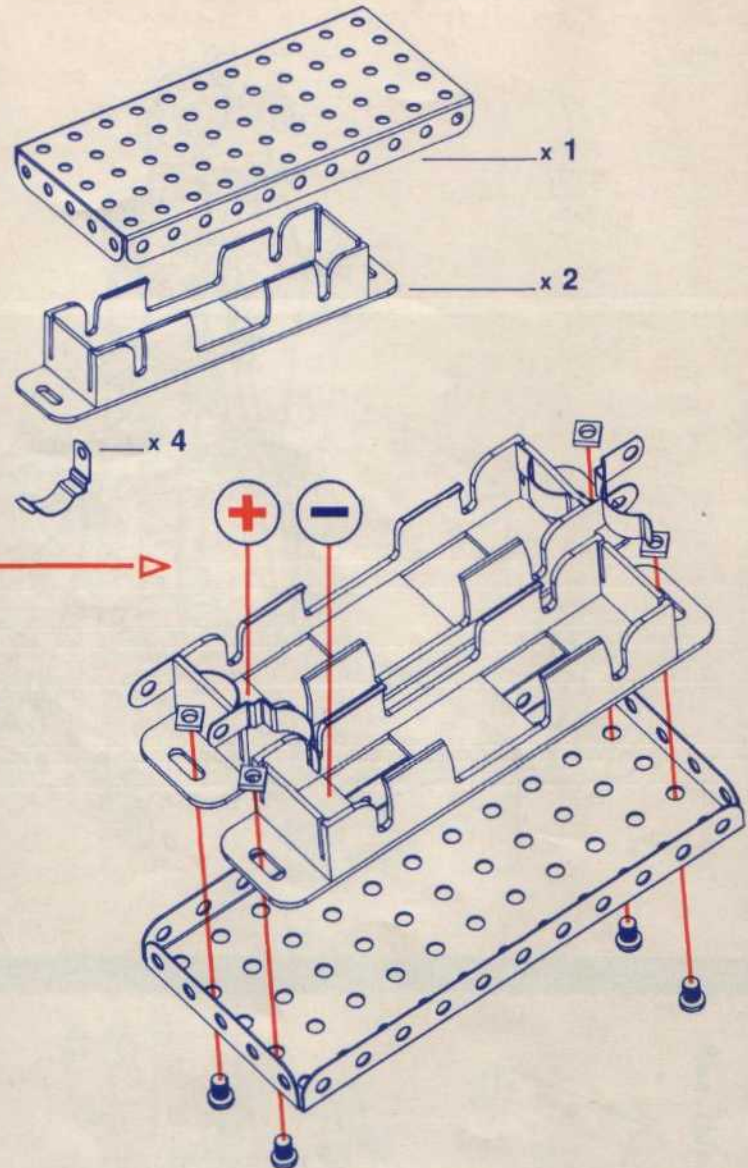


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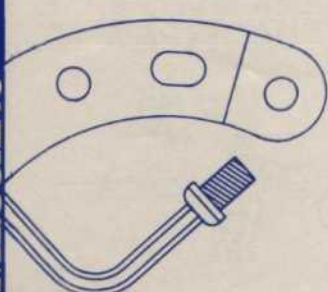
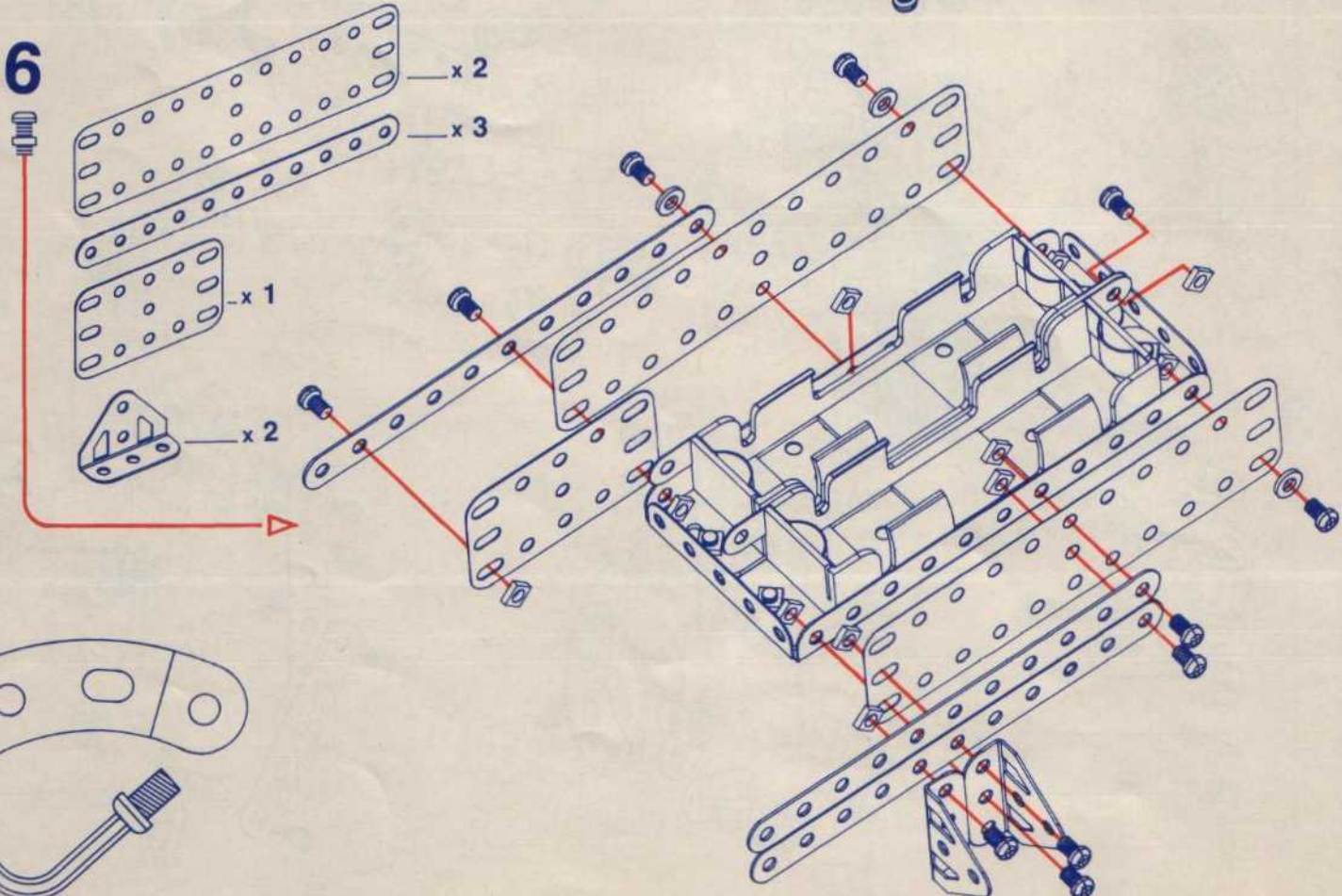
- 1
- + 2A
- + 2B
- + 2C
- +






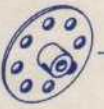
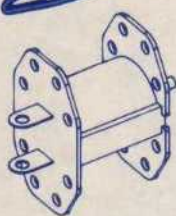



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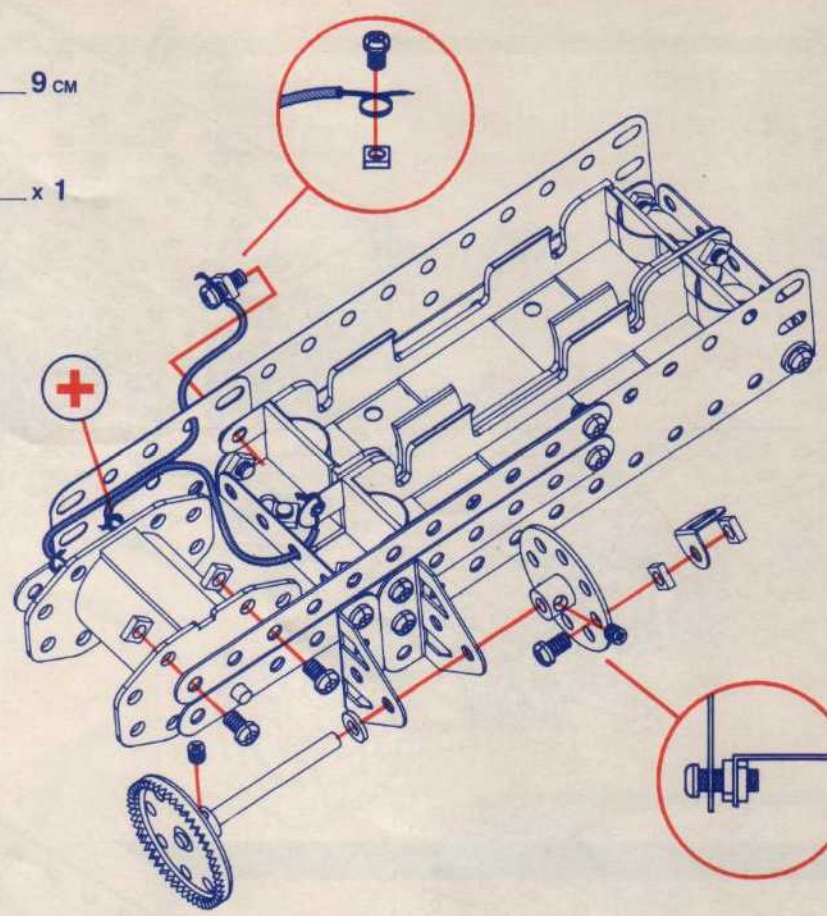


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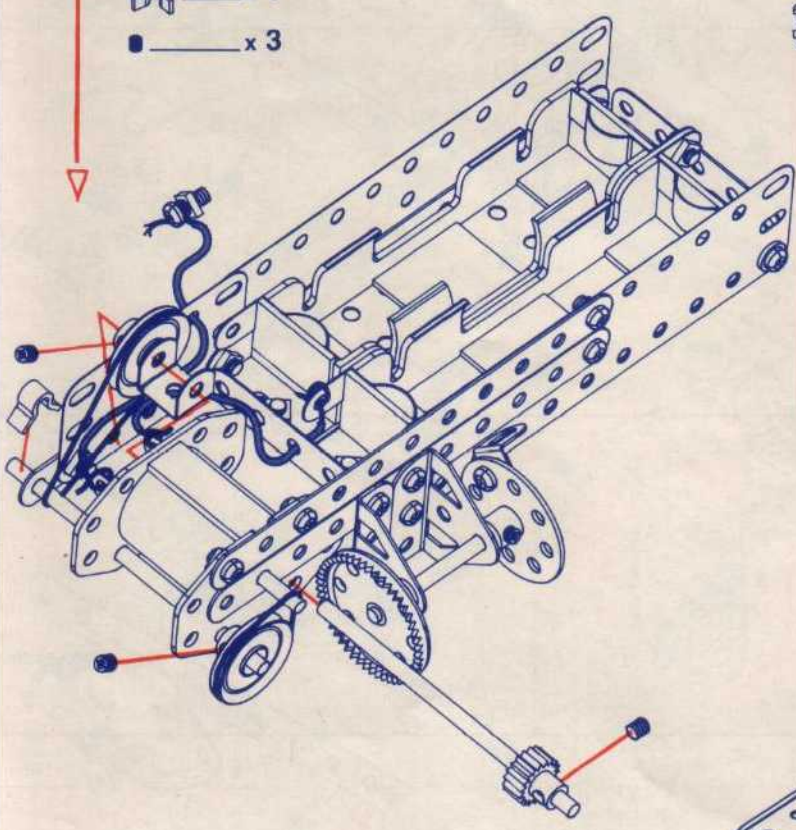
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-  x 1
-  9 cm
-  x 1
-  x 1
-  x 1
-  x 1
-  x 2
-  x 1



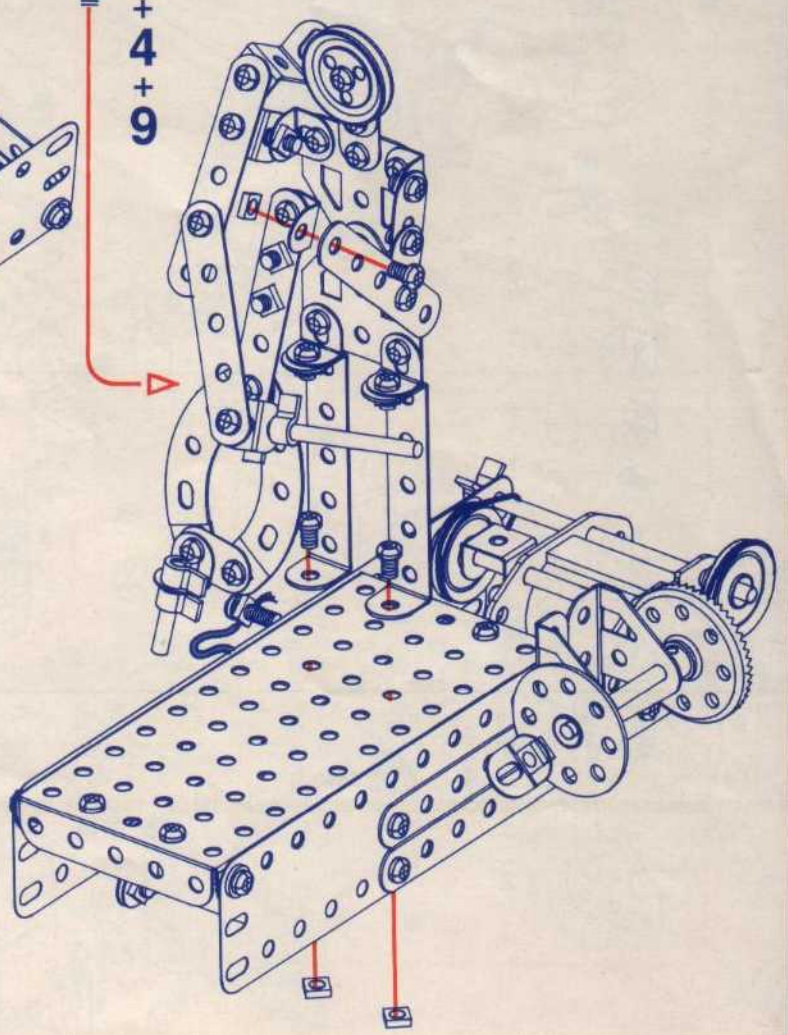
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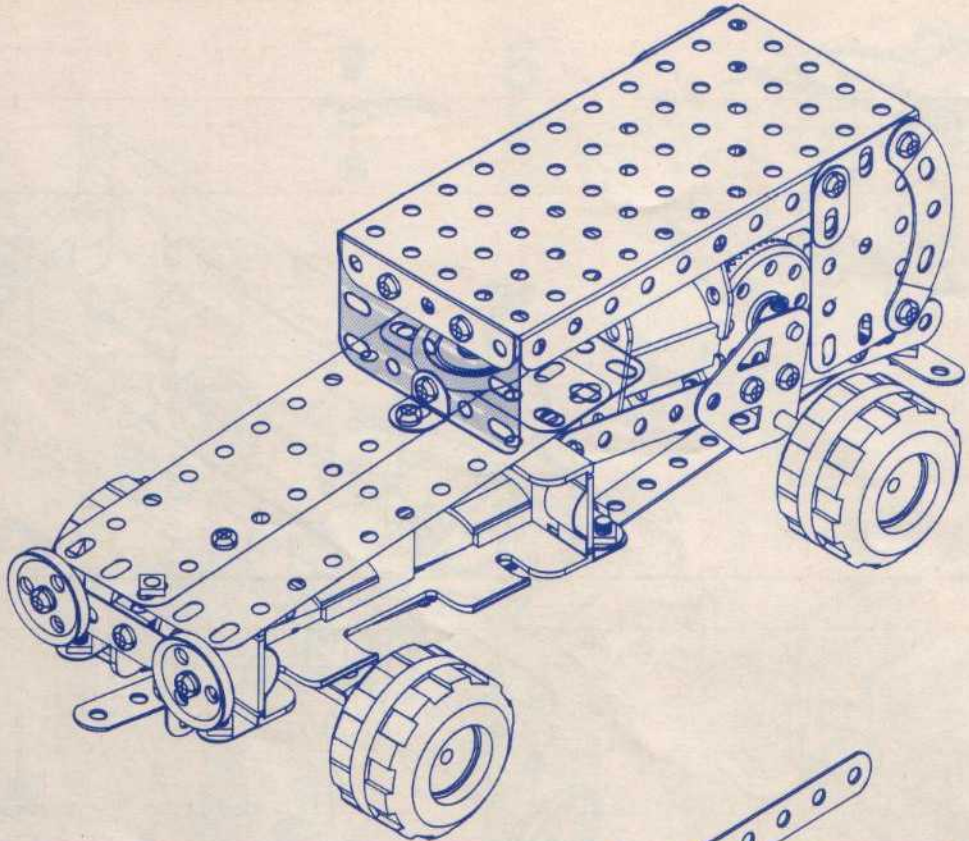
-  x 2
-  x 2
-  x 2
-  x 1
-  x 1
-  x 1
-  x 3



9

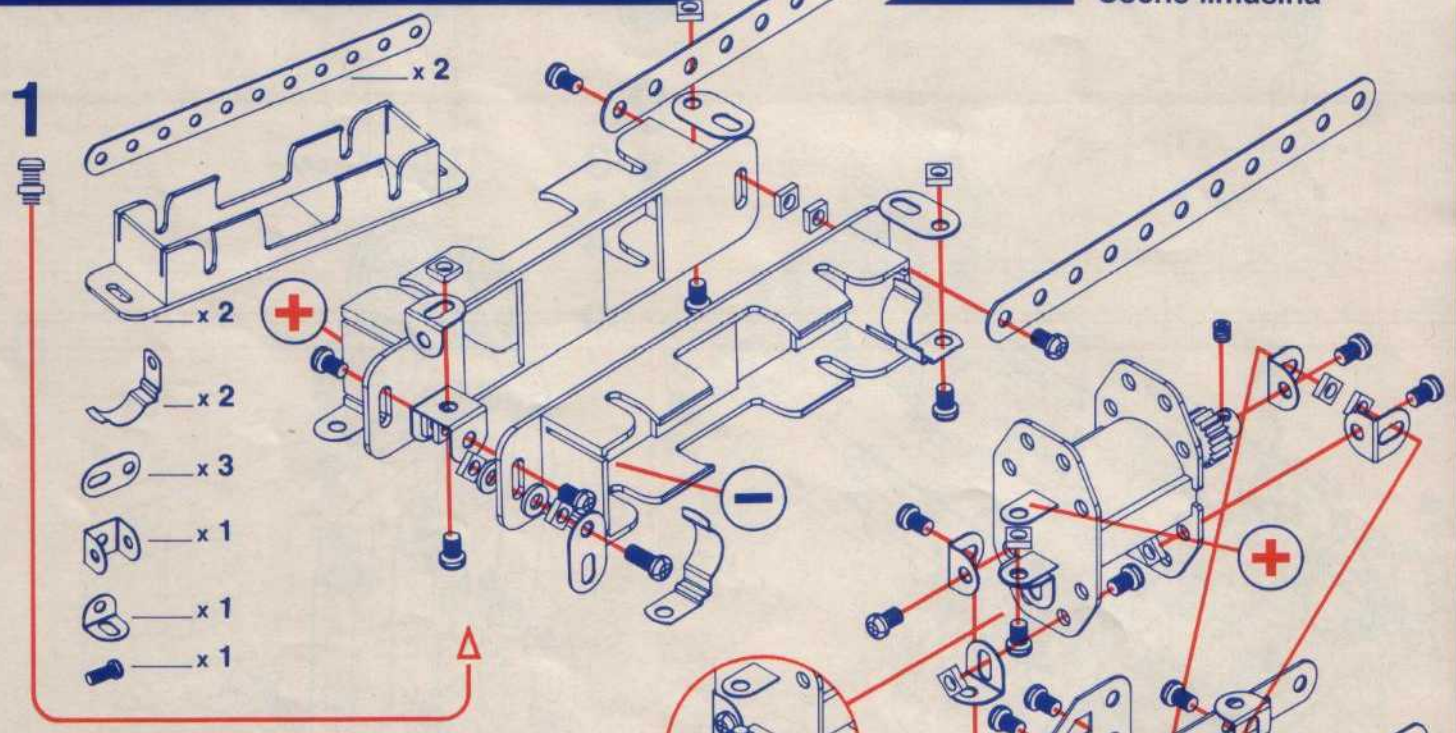
3 + 4 + 9



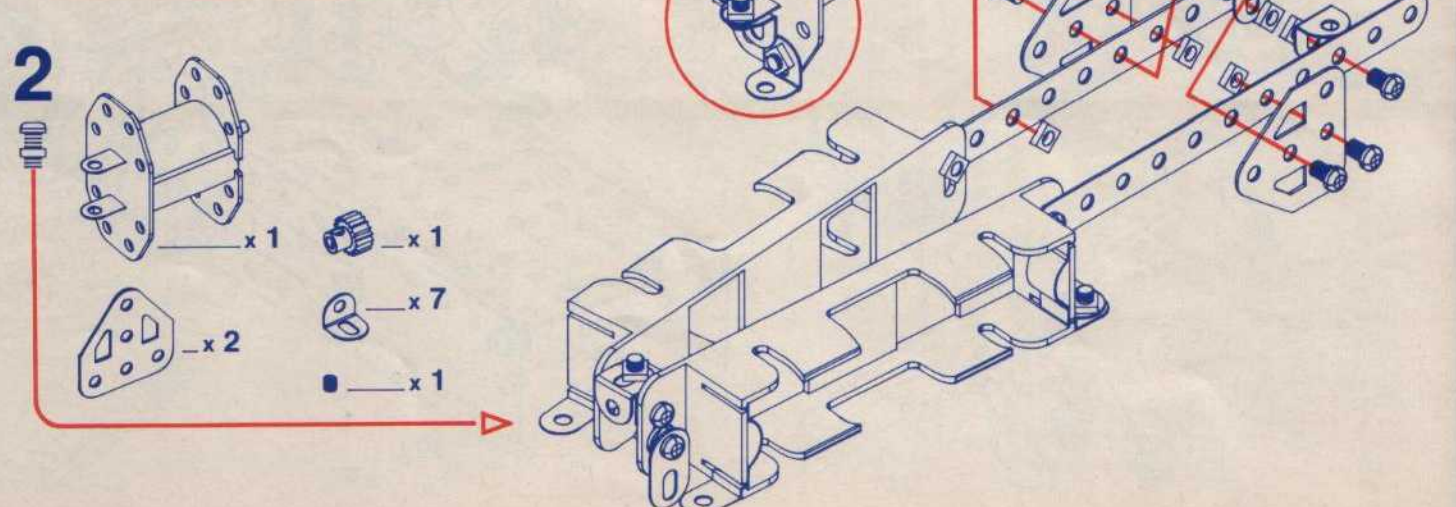


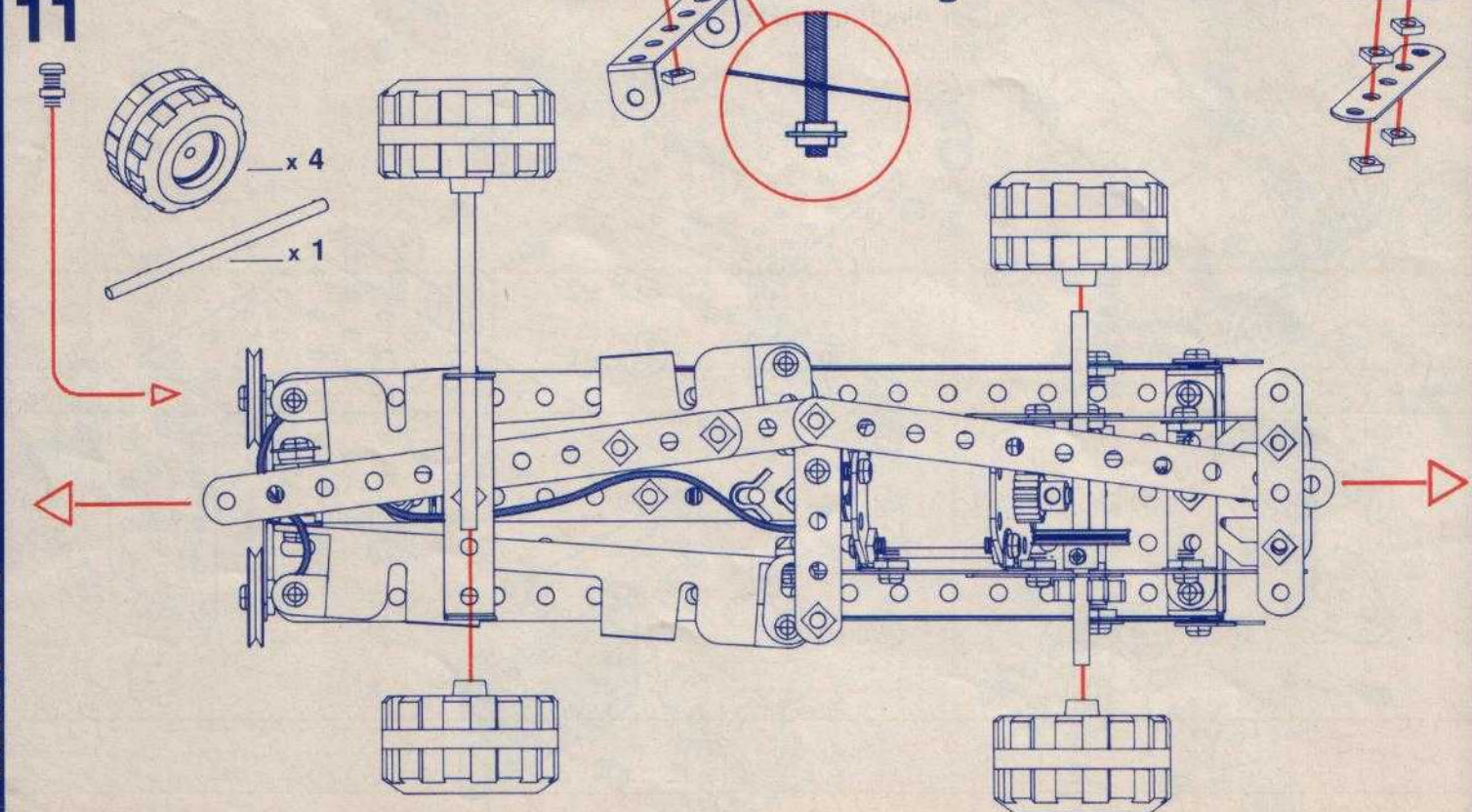
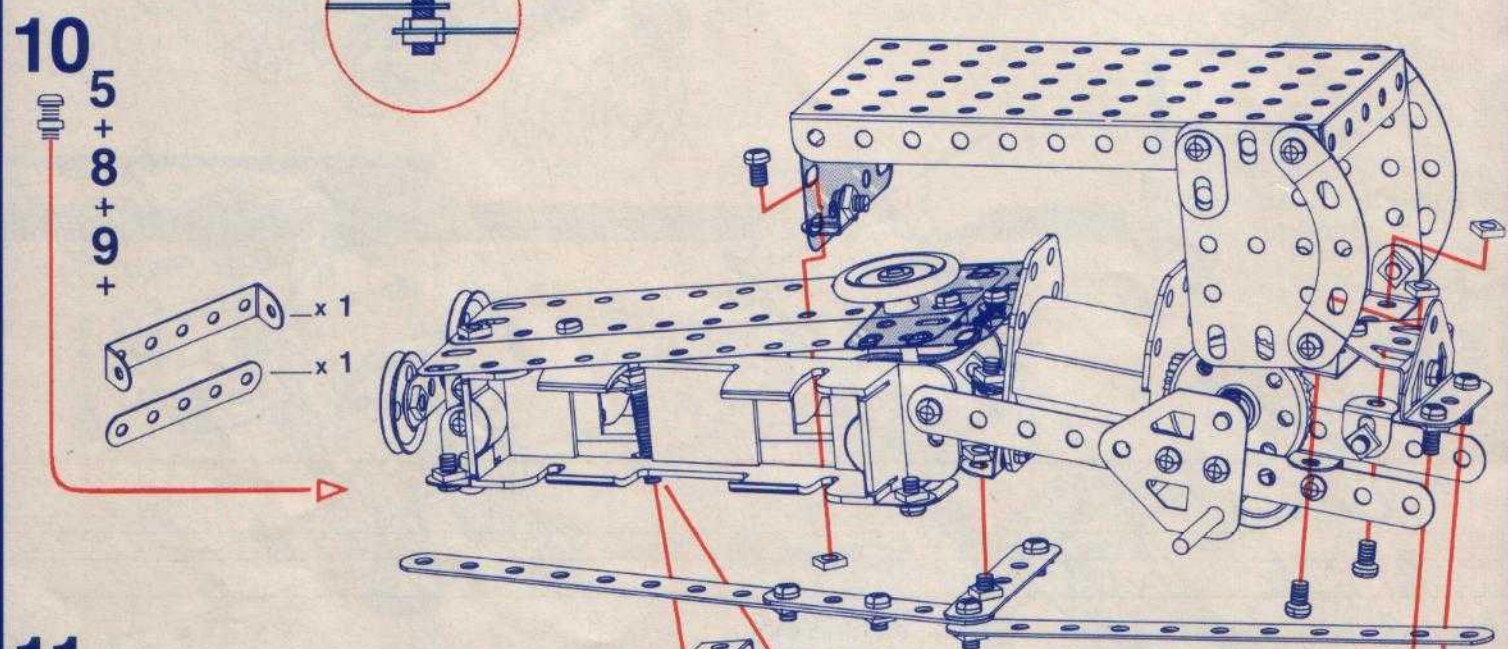
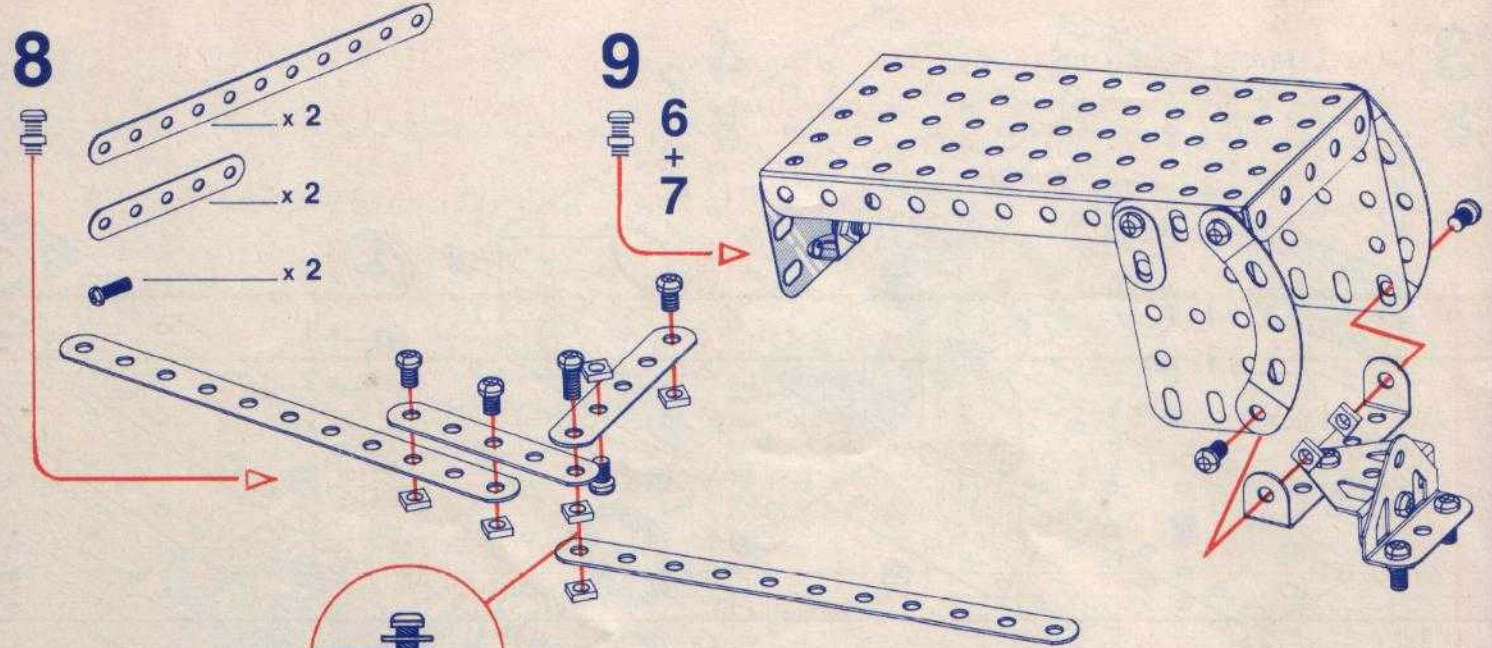
Limousine car
 Limousine
 Automobile limousine
 Coche limusina

1



2







The different Meccano motors.



De diverse "Meccano"-motoren.



Les différents moteurs Meccano.



I motorini elettrici Meccano.



Die verschiedenen Meccano-Motoren.



Los diferentes motores Meccano.

Six speeds motor M.
Moteur M (6 vitesses).
Motor M (6 Geschwindigkeiten).
Motor M (6 snelheden).
Motorino elettrico M a 6 velocita invertibili.
Motor M (6 velocidades).



Geared motor 9-12 volt.
Moteur réducteur 9-12 volts.
Elektrischer Motor 9 bis 12 Volt.
Elektromotor 9a 12 volt.
Motorino con riduttore 9a 12 volt.
Motor reductor 9a 12 voltios.



6 volt electric motor.
Moteur électrique 6 volts.
Elektrischer Motor 6 Volt.
Elektromotor 6 volt.
Motorino elettrico a 6 volt.
Motor eléctrico 6 voltios.



Engineering set.



Technische doos.



Boîte mécanismes.



Scatola meccanismi.



Getriebe-Zusatzkasten.



Caja de mecanismos.





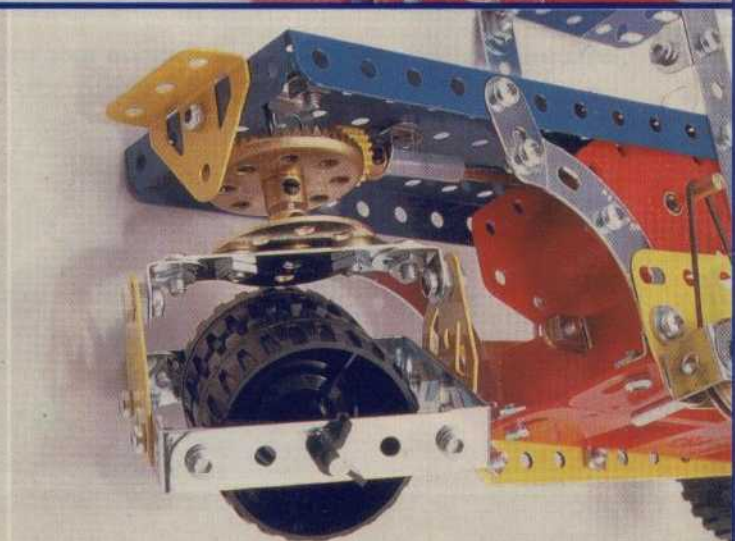
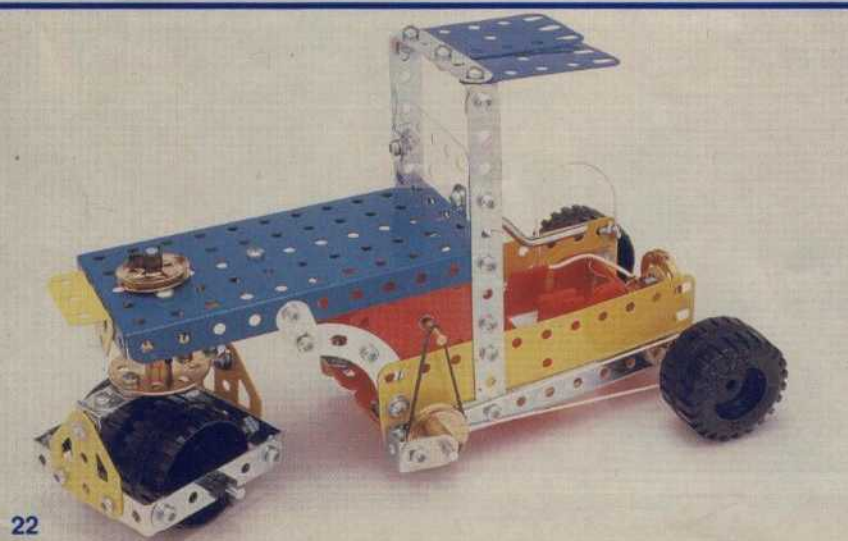
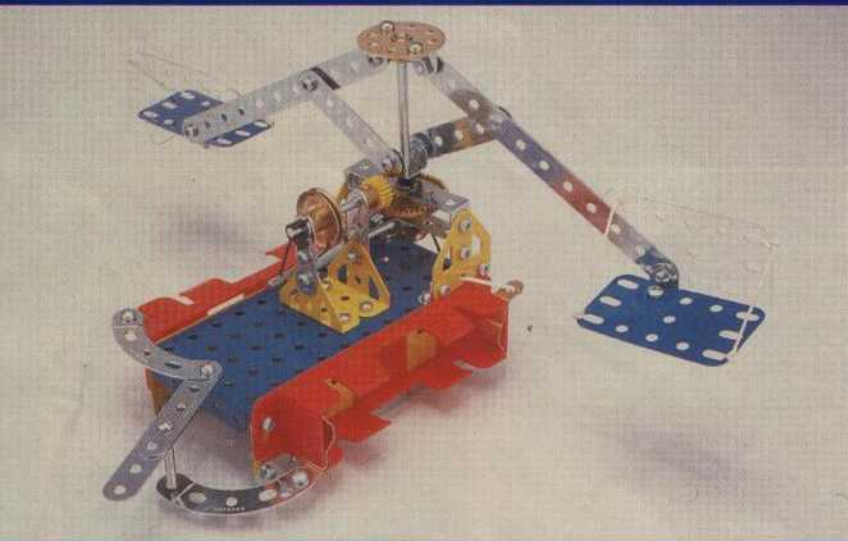
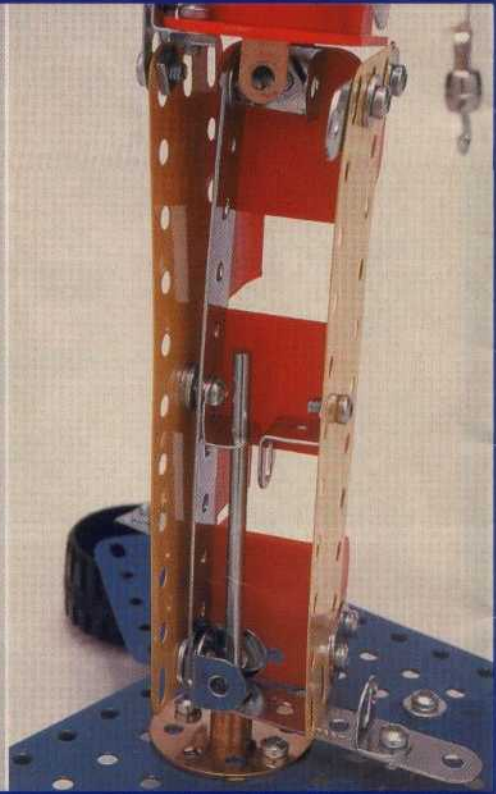
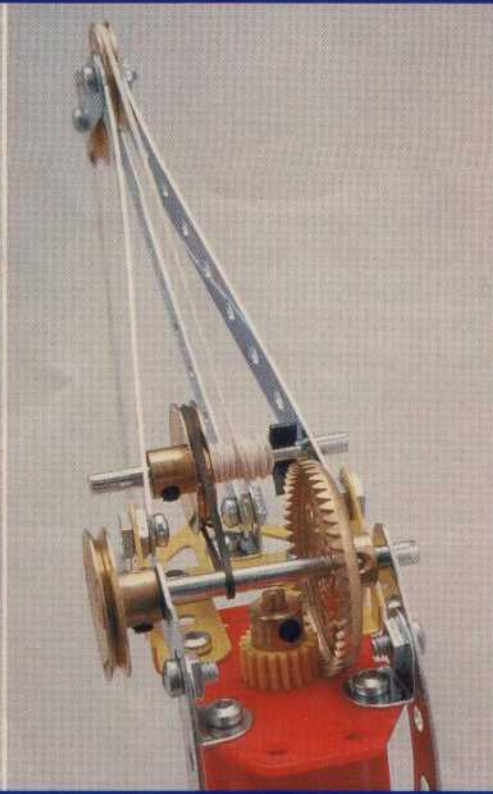
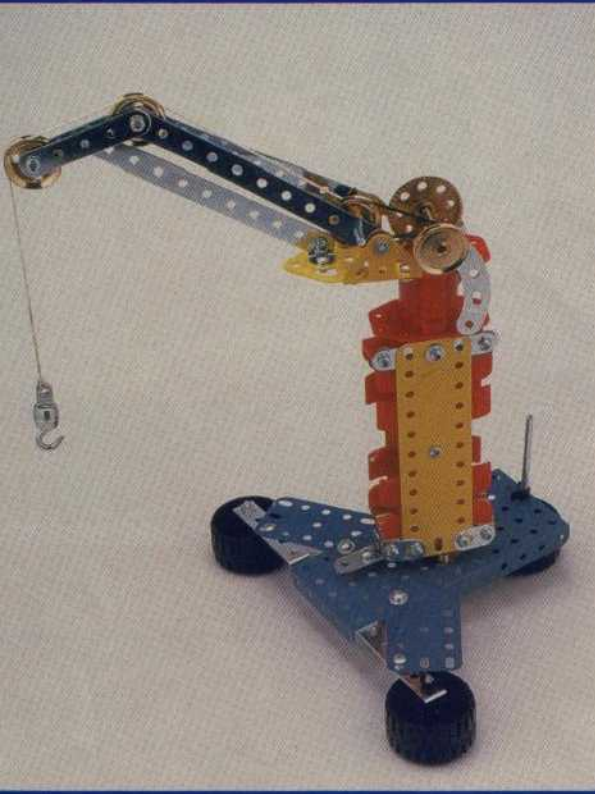
Suggestions for models to build yourself.



Propositions de modèles pour constructions personnelles.



Vorschläge für Modelle zum Selberbauen.





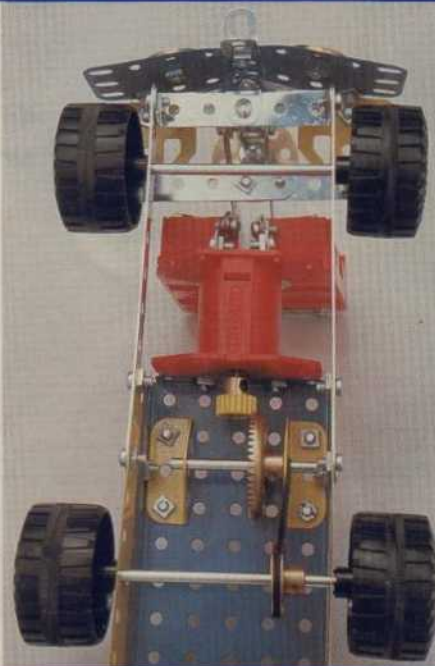
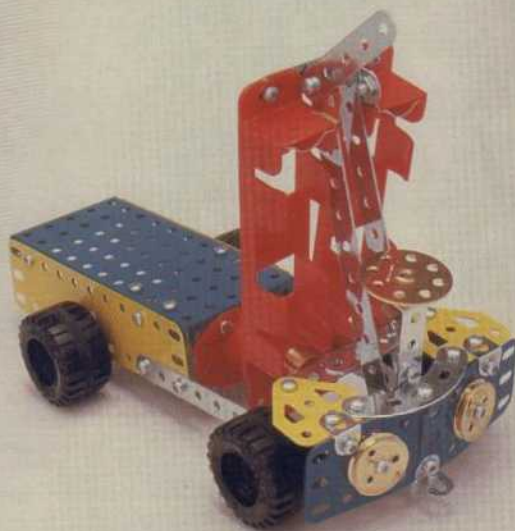
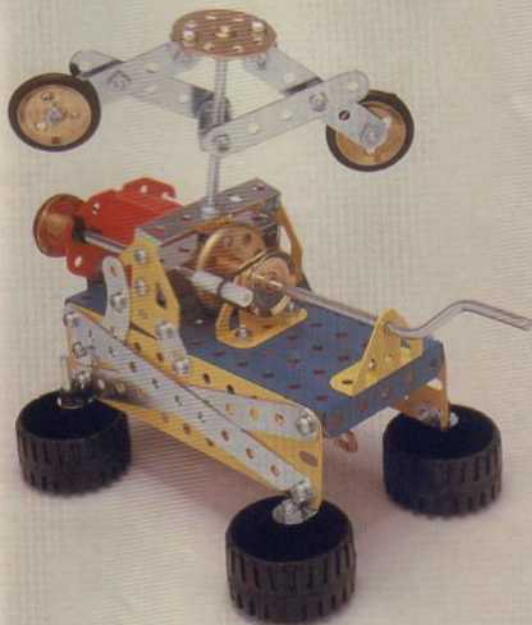
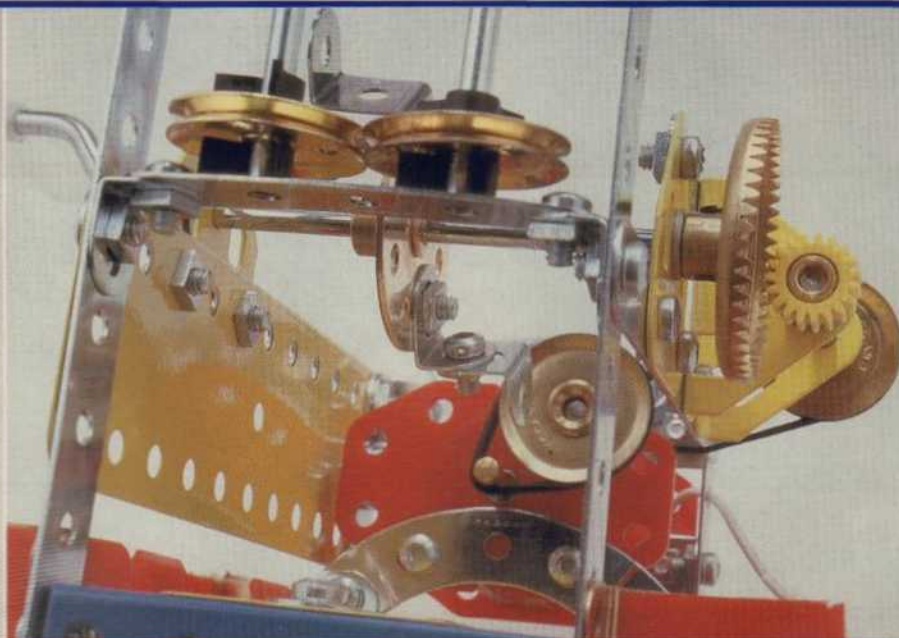
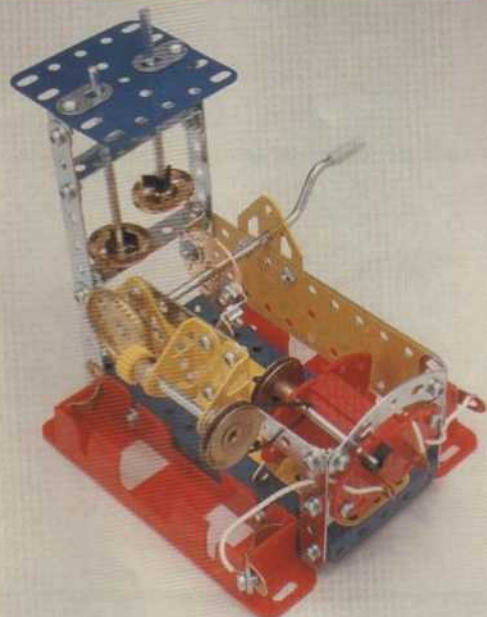
Ideëen voor zelfbouw-modellen.



Proposte di modelli per costruzioni personali.



Propuestas de modelos para construcciones personales.





Models to build yourself.



Modèles pour constructions personnelles.



Modelle zum Selberbauen.



Zelfbouw-modellen.

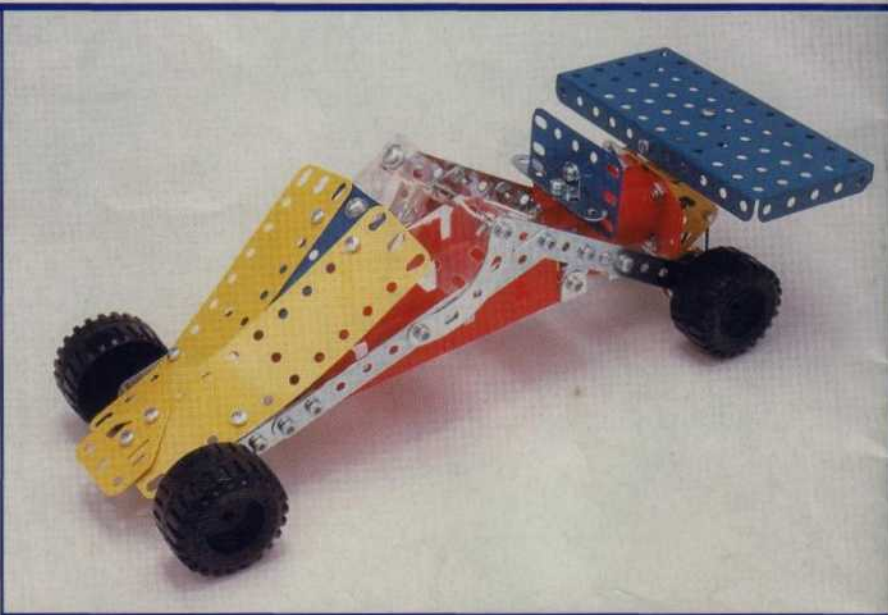
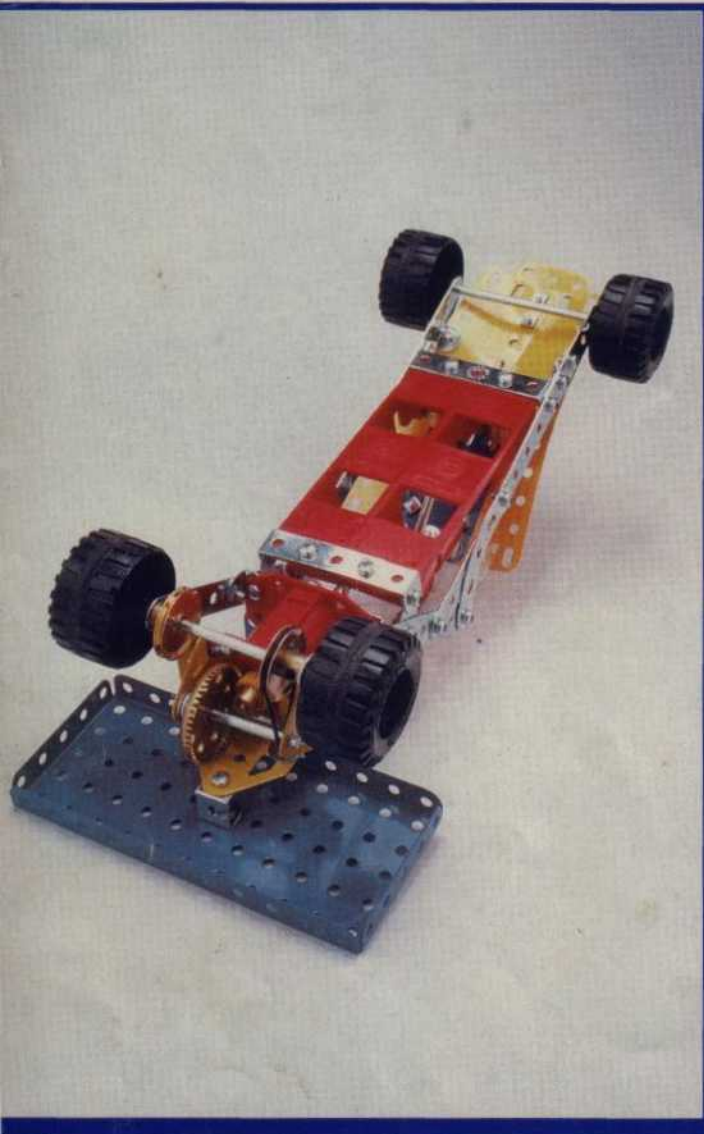


Modelli per costruzioni personali.



Modelos para construcciones personales.

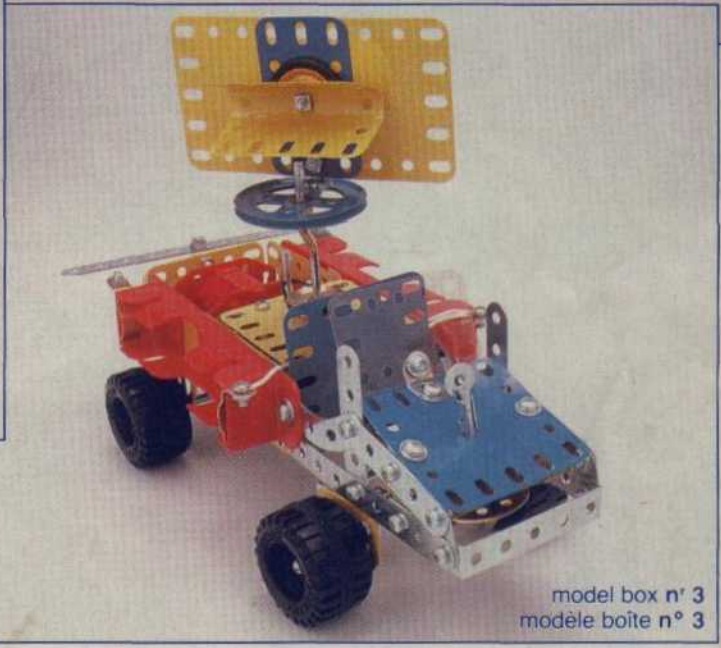
2



$$n^{\circ} 2 + n^{\circ} 2x = n^{\circ} 3$$



model box n° 3
modèle boîte n° 3



model box n° 3
modèle boîte n° 3



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Imp. CACHE & FILLE - GUINES