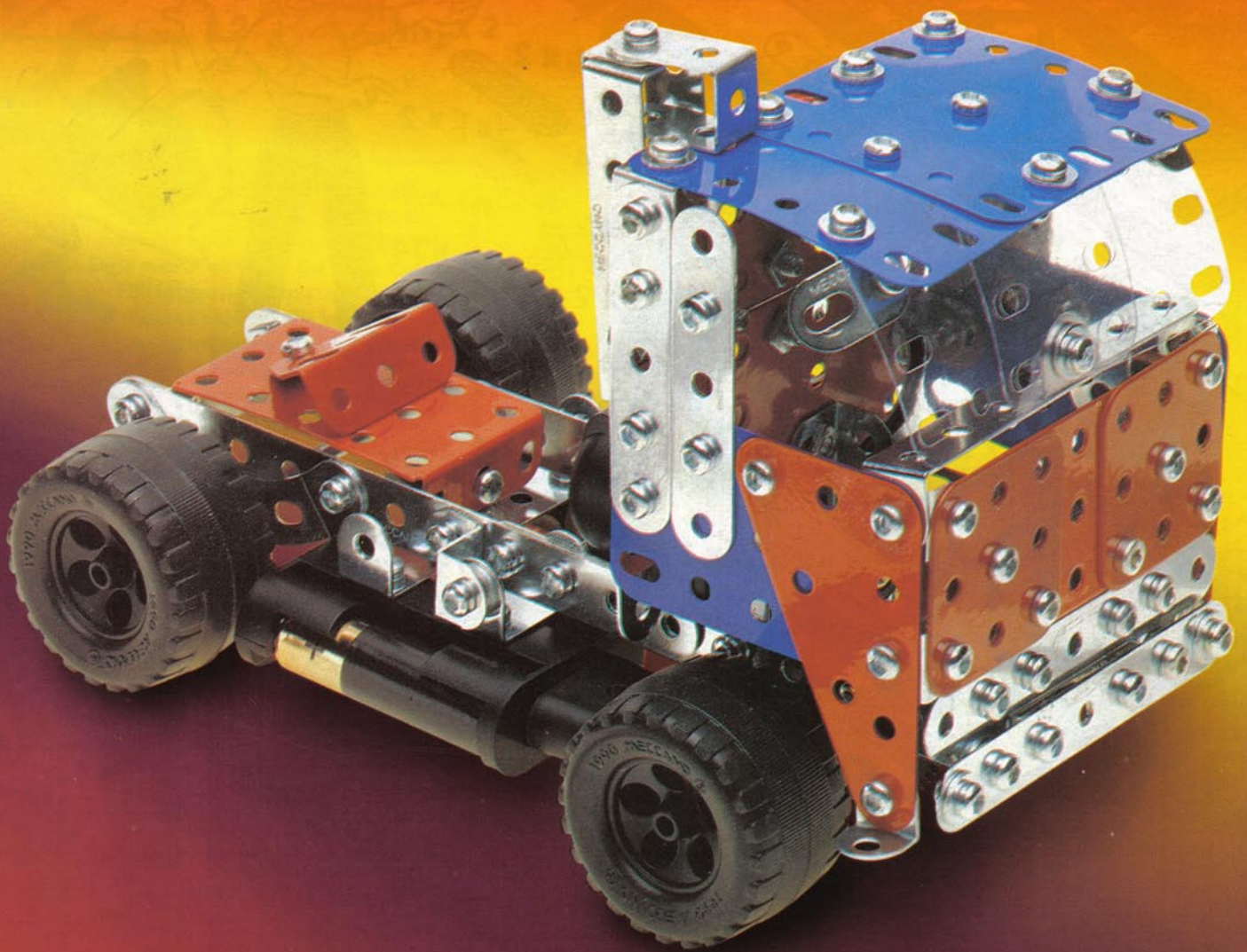


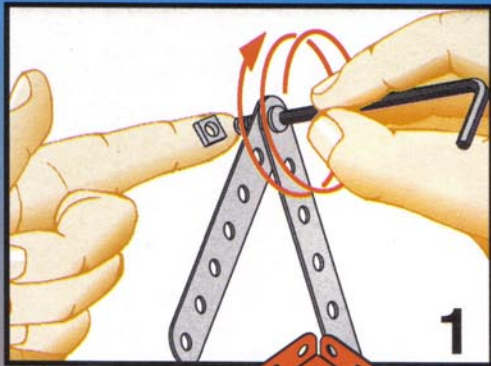
MECCANO®



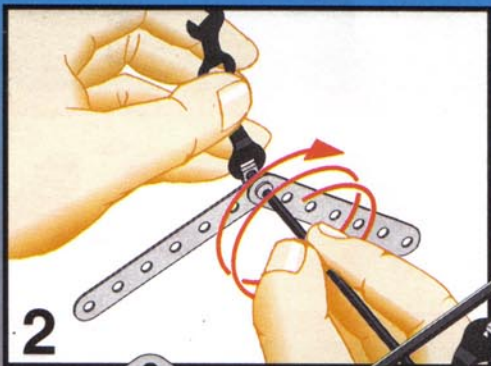
LEAFLET
ANLEITUNG
ISTRUZIONI
BROSCHYR
OHJEET
VEJLEDNING

NOTICE
INSTRUCCIONES
BESCHRIJVINGEN
INSTRUCOES
ΟΔΗΓΙΕΣ
説明書

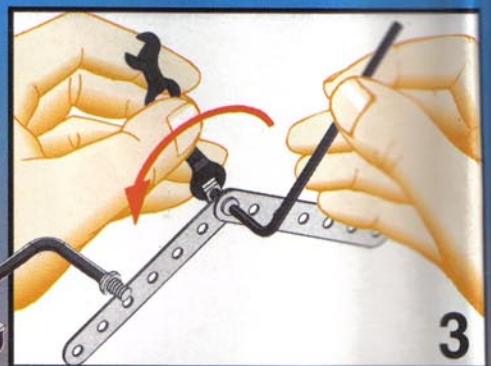
7064



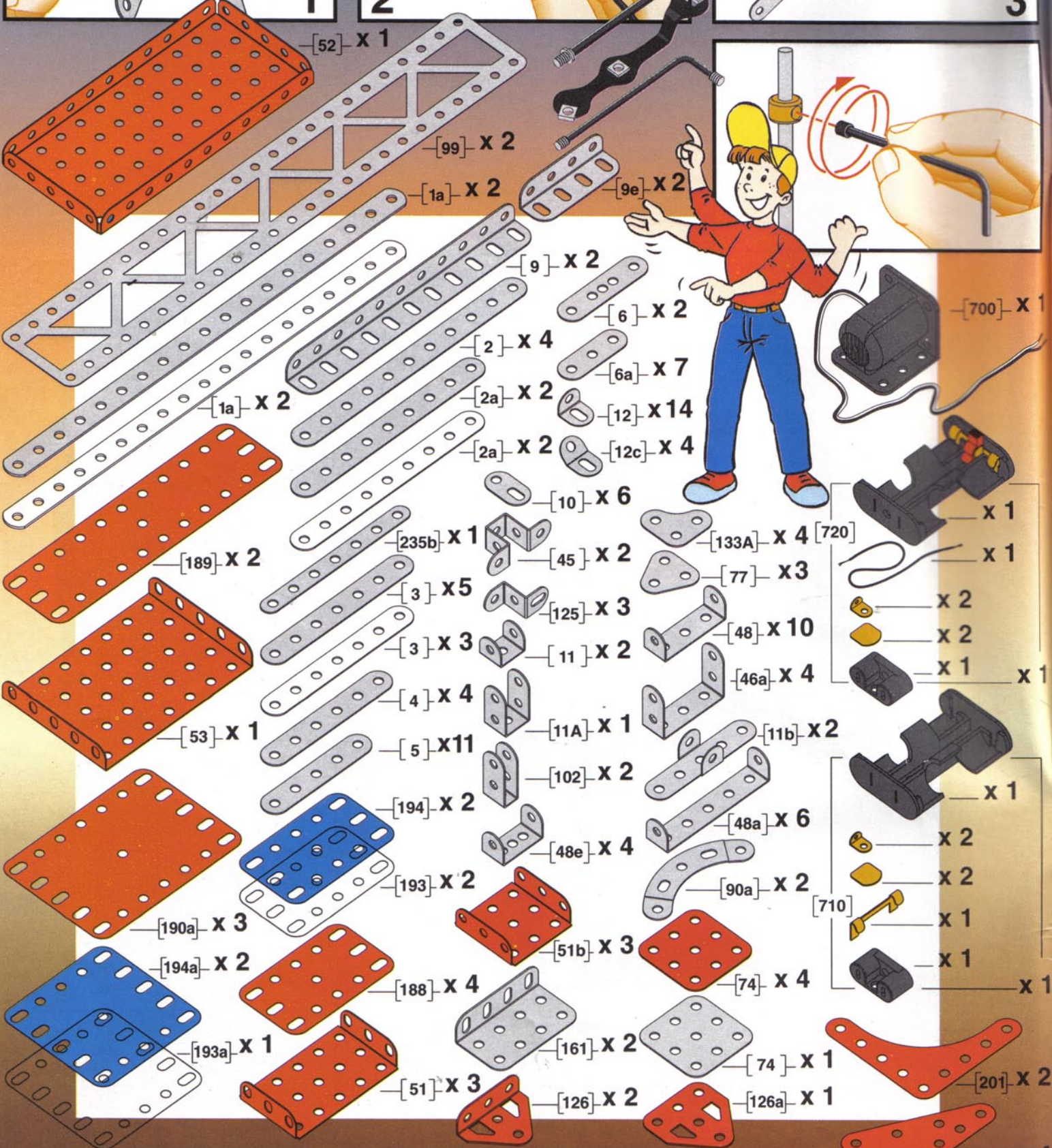
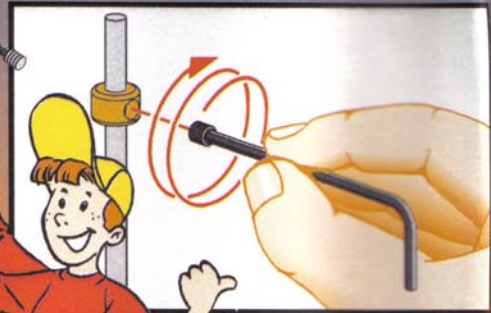
1



2



3



[52] X 1

[99] X 2

[1a] X 2

[9e] X 2

[9] X 2

[6] X 2

[2] X 4

[6a] X 7

[2a] X 2

[12] X 14

[2a] X 2

[12c] X 4

[10] X 6

[235b] X 1

[45] X 2

[3] X 5

[125] X 3

[3] X 3

[11] X 2

[4] X 4

[11A] X 1

[5] X 11

[102] X 2

[48e] X 4

[11b] X 2

[194] X 2

[48a] X 6

[193] X 2

[90a] X 2

[51b] X 3

[74] X 4

[74] X 1

[126] X 2

[126a] X 1

[133A] X 4

[720]

[77] X 3

[48] X 10

[46a] X 4

[11b] X 2

[48a] X 6

[90a] X 2

[51b] X 3

[74] X 4

[74] X 1

[126] X 2

[126a] X 1

[74] X 1

[74] X 1

[20] X 2

[221] X 4

[700] X 1

X 1

X 1

X 2

X 2

X 1

X 1

X 1

X 2

X 2

X 1

X 1

X 1

X 1

X 1

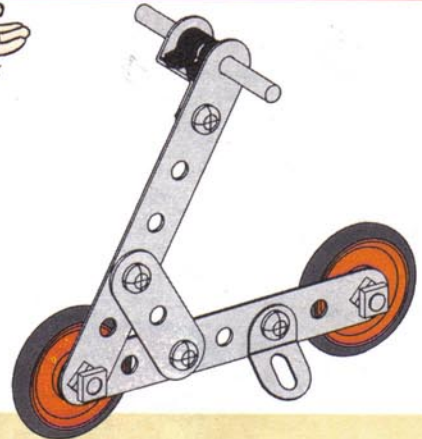
X 1

X 1



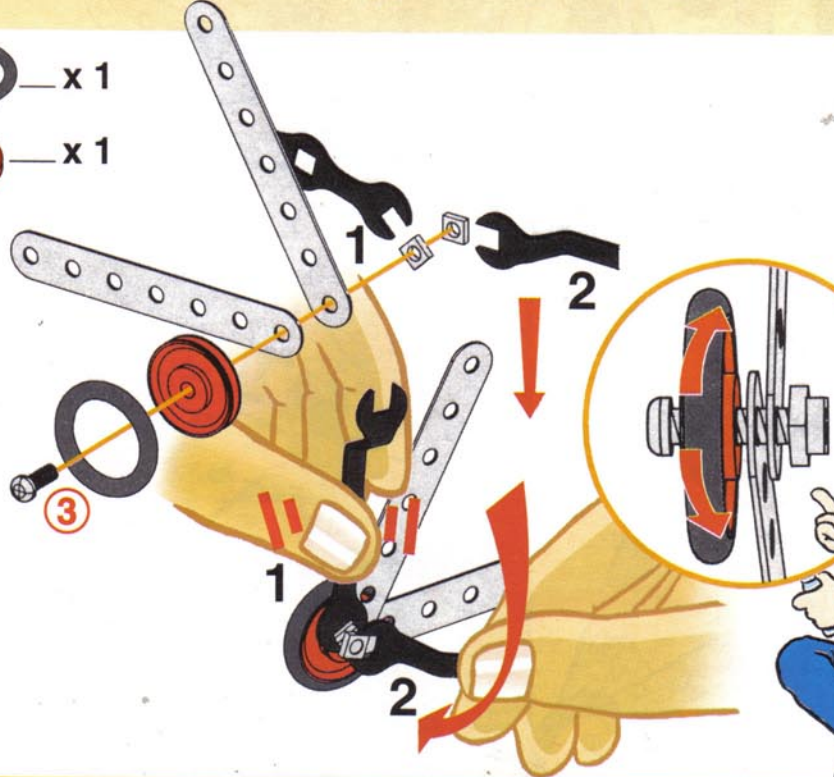
- [19S] X 1
- [11,5 cm / 4 1/2"] [15a] X 3
- [9 cm / 3 1/2"] [16] X 2
- [6 cm / 2 1/2"] [16a] X 4
- [5 cm] [17] X 5
- [4 cm / 1 1/2"] [18a] X 2
- [2,5 cm] [18b] X 2
- [36c] X 1
- [36d] X 1
- [34] X 2
- [37b] X 165
- [69a] X 9
- [38] X 58
- [37a] X 203
- ① 28 mm [111d] X 1
- ② 19 mm [111] X 0
- ③ 12 mm [111a] X 12
- ④ 9,5 mm [111c] X 18
- ⑤ 23 mm [147g] X 2
- [38a] X 22
- [35] X 8
- [23c] X 17
- [213] X 2
- [28] X 1
- [24] X 3
- [27ap] X 1
- [22ap] X 2
- [155] X 2
- [80a] X 1
- [26p] X 1
- [32p] X 1
- [59] X 1
- [63d] X 1
- [63] X 1
- [26N] X 1
- [212] X 1
- [115a] X 1
- [120c] X 2
- [185] X 1
- [331N] X 8
- [40] X 1
- [57b] X 1
- [103h] X 2
- [108] X 2

Follow the instructions step by step.
 Suis le montage étape par étape.
 Folge die Anleitung Schritt für Schritt.
 Segui queste istruzioni punto per punto.
 Följ bygganvisningen steg för steg.
 Seuraa ohjeita vaihe vaiheelta.
 Følg samleanvisningerne skridt for skridt.
 Sigue el montaje paso a paso.
 Volg de montage stap voor stap.
 Segue as instruções passo a passo.
 Ακολουθήσε τις οδηγίες κατά γράμμα
 写真を見て順番に従って、組み立てよう。



1

- [111d] X 1
- [111] X 0
- [111a] X 12
- [111c] X 18
- [147g] X 2
- [38a] X 22
- [35] X 8
- [23c] X 17
- [213] X 2



2

1 +

- x 1
- x 1

3

2 +

- x 1

Rigid assemblies.
Assemblages rigides.
Fester Zusammenbau.
Assemblaggio rigido.
Justera monteringen.
Vahvoja liitoksia.
Faste forbindelser.
Ensamblages rigidos.
Stevige forbindingen.
Uniões rigorosas.
Σταθερή συναρμολόγηση
しっかりした組立て

4

3 +

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

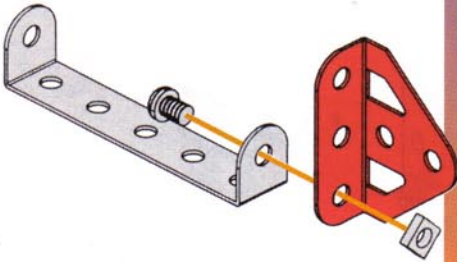
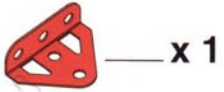
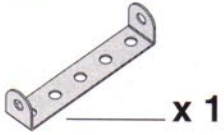
Adjust assembly.
Ajuste l'ensemble.
Richte alles gerade.
Sistema l'assemblaggio.
Montera förstärkning
Säädä liitos.
Samlingen justeres.

Ajusta el montaje.
Controler de constructie.
Ajusta a montagem.
Συναρμολόγησε τα κομμάτια
びったりと合わせよう。

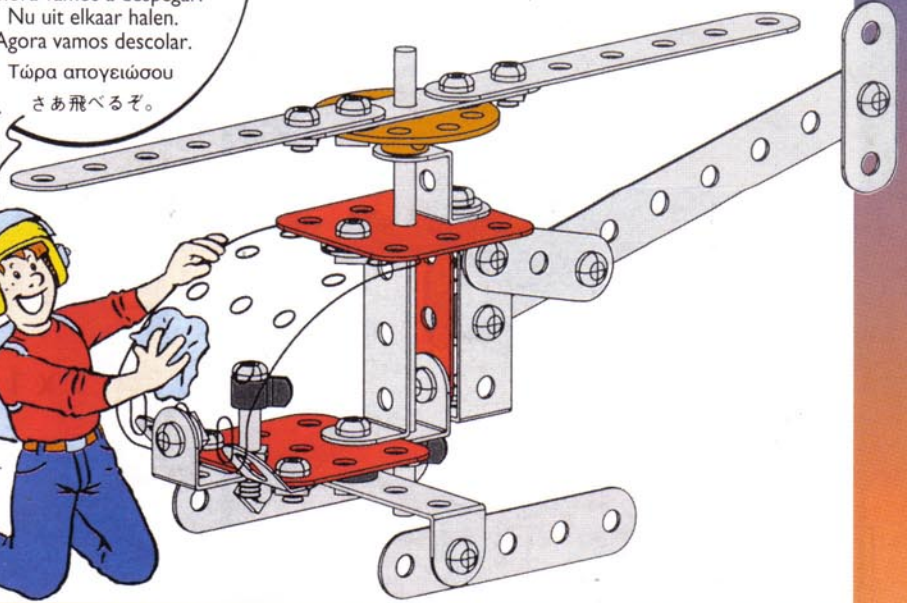
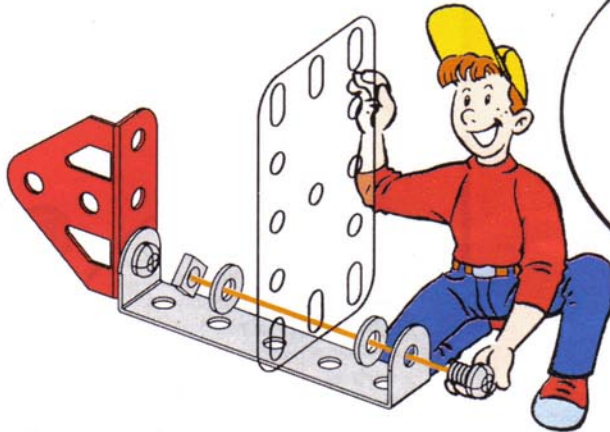
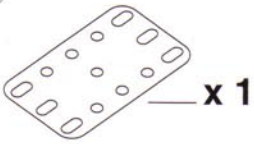
5

4 +

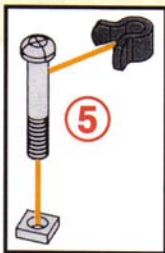
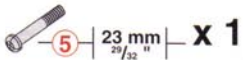
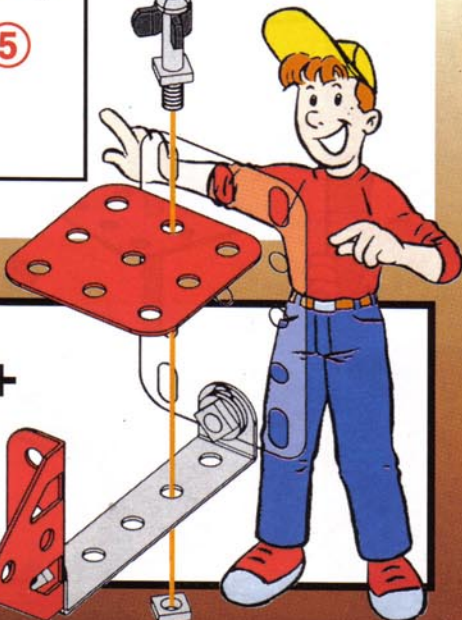
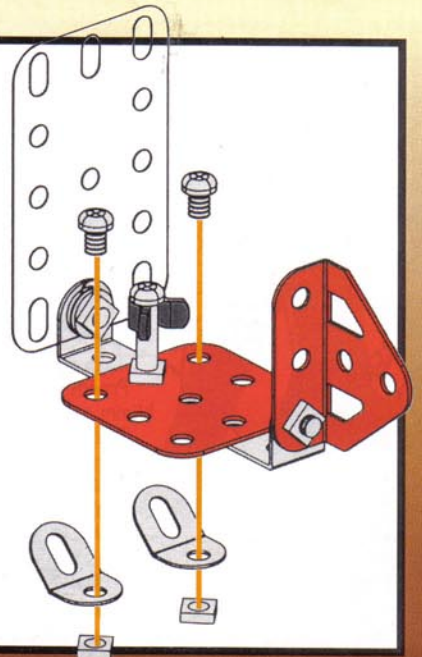
- ①
- ②
- ③ x 1
- ④
- x 1
- x 1

1

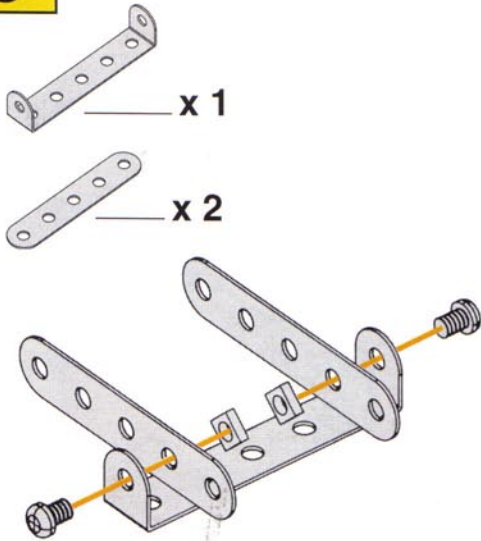
Now take off.
 Maintenant décolle.
 Und jetzt hebe ab.
 Ora decolla.
 Nu startar vi.
 Nyt valmiina nousuun.
 Og nu flyver vi.
 Ahora vamos a despegar.
 Nu uit elkaar halen.
 Agora vamos descolar.
 Τώρα απογειώσου
 さあ飛べるぞ。

**2****1** +

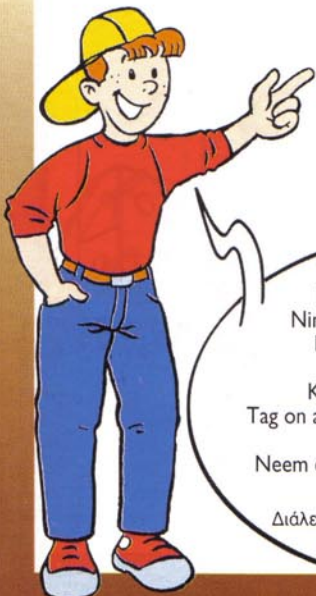
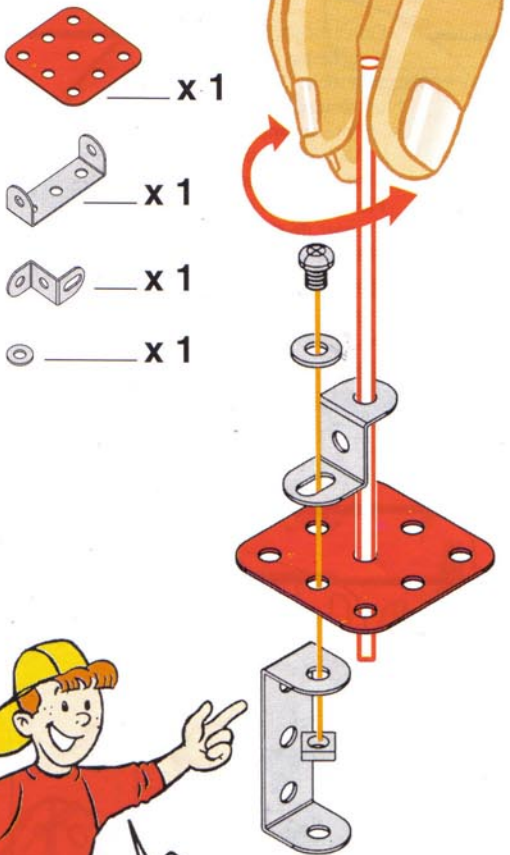
Don't forget the washers.
 N'oublie pas les rondelles.
 Vergesse nicht die Dichtungsringe.
 Non dimenticare le rondelle.
 Glöm inte att anuända brickor.
 Älä unohtda priikkoja.
 Glem ikke de flade skiver.
 No olvides las arandelas.
 Vergeet de ringetjes niet.
 Não esqueças as anilhas.
 Μη ξεχνάς τις ροδέλες
 座金を忘れないように。

3**5****5****4** +**4****2** + **3** +

6



8



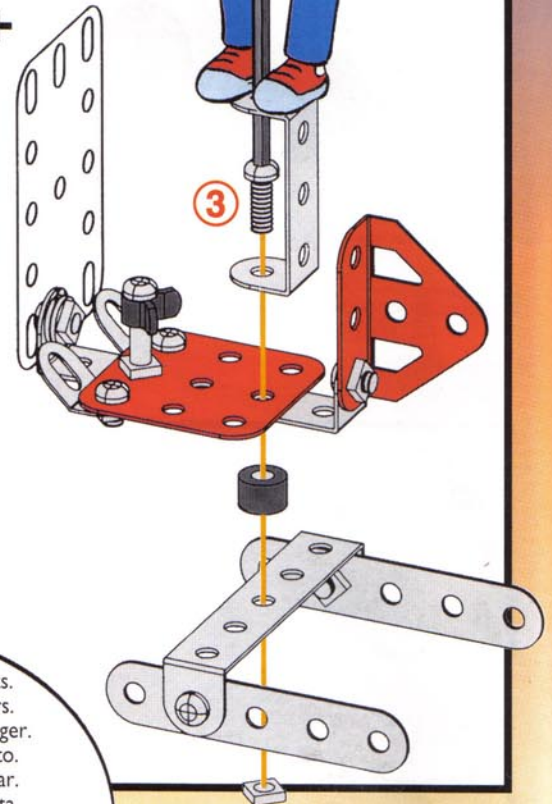
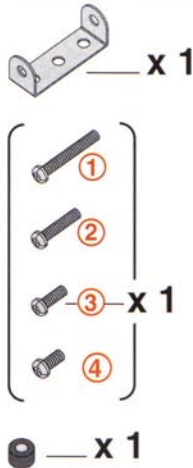
Take an axle for alignment.
 Prends un axe pour aligner.
 Nimm eine Achse und richte aus.
 Prendi un'asse per allineare.
 Rikta med hjälp av en axel.
 Käytä akselia kohdistamiseen.
 Tag on aksel og foretag udreining herefter.
 Usa un eje para alinear.
 Neem een as om het in één lijn te zetten.
 Usa um eixo para alinhar.
 Διάλεξε έναν άξονα και ευθυγράμμισε
 軸に部品をセットしよう。

7

Simple !
 Facile !
 Ganz einfach !
 Facile !
 Busenkelt !
 Yksinkertaista !
 Let !
 ; Facile !
 Gemakkelijk !
 Facile !
 Εύκολο !
 かんたん、
 かんたん！

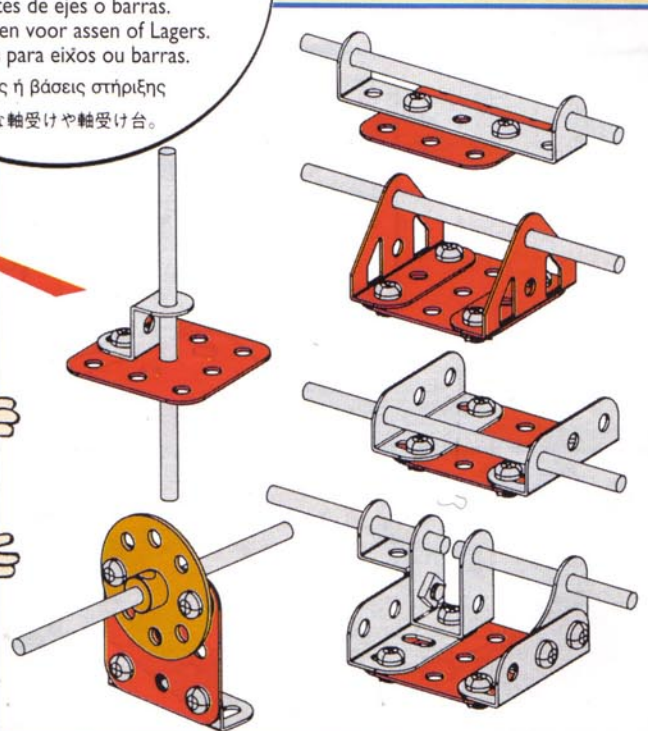


5 + 6 +

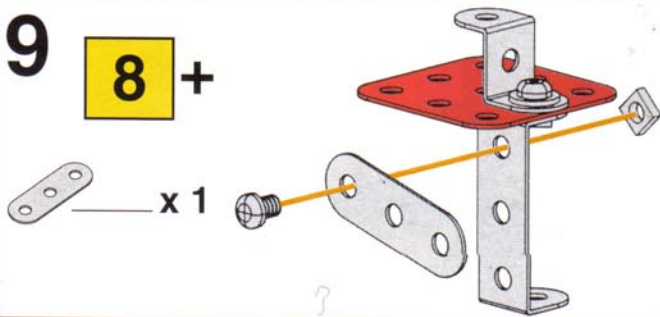


Axles or bearing supports.
 Supports d'axes ou paliers.
 Unterstützt Achsen und Lager.
 Assi o sostegni di supporto.
 Olika typer av axellagringar.
 Akselien ja laakerien tuenta.
 Aksel - og lejestøtter.
 Soportes de ejes o barras.
 Steunstukken voor assen of Lagers.
 Suportes para eixos ou barras.

Άξονες ή βάσεις στήριξης
 色々な軸受けや軸受け台。



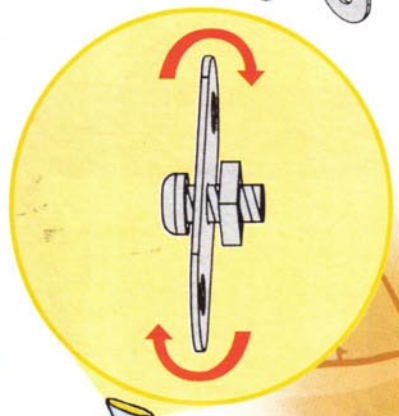
9 **8** +



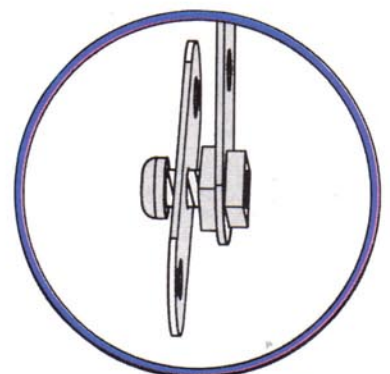
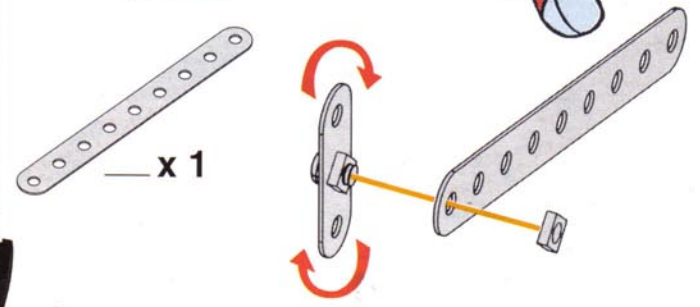
You screw without tightening.
 Tu serres mais sans bloquer.
 Ziehe die Schrauben leicht an.
 Avvita ma senza bloccare.
 Skrúva íhóp men spánn inde fast.
 Ruuvaa kiristämättä.
 Der strammes til, men uden ai blokere.
 Atornilla, pero sin apretar.
 Aandraaien, maar niet te vast.
 Aparafusa, mas sem apertar.
 Βιδώσε χωρίς να μπλοκάρεις
 ビスで留める。だけど、固定はしない。



10

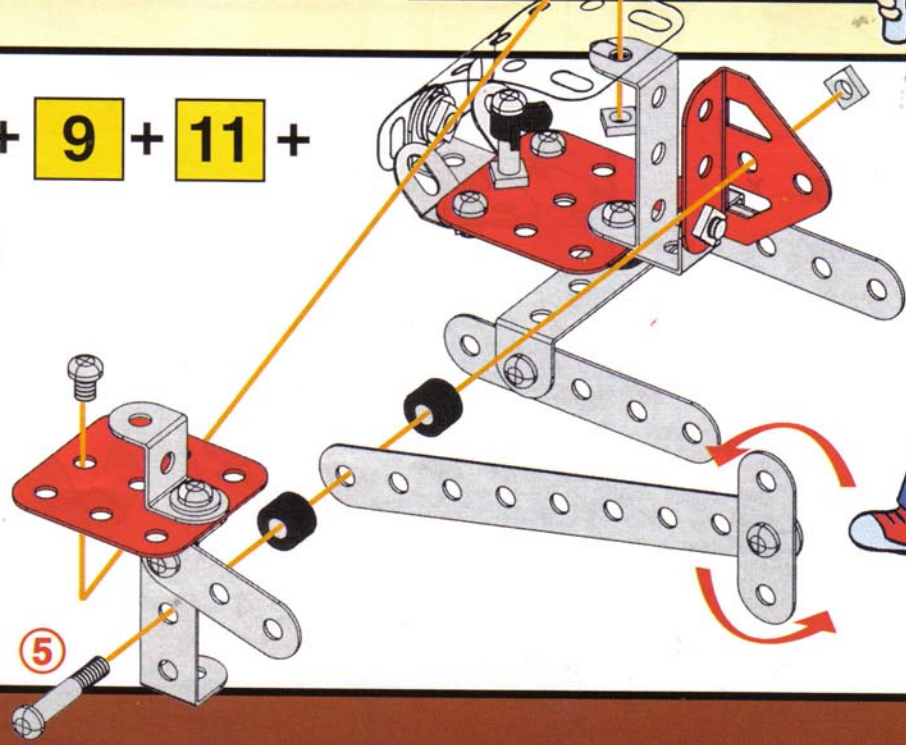


11 **10** +









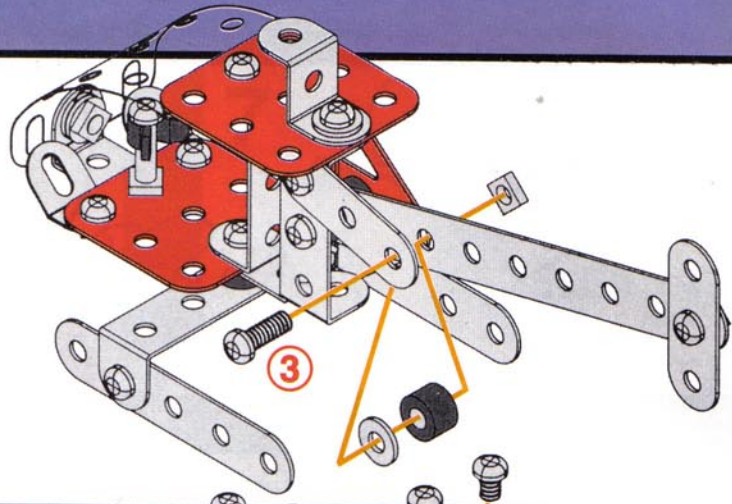
12 **7** + **9** + **11** +

- ⑤ | 23 mm | X 1
- X 1
- X 2

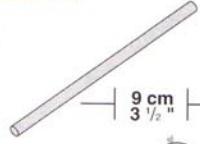
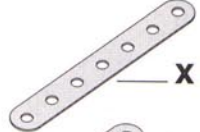
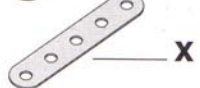
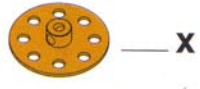



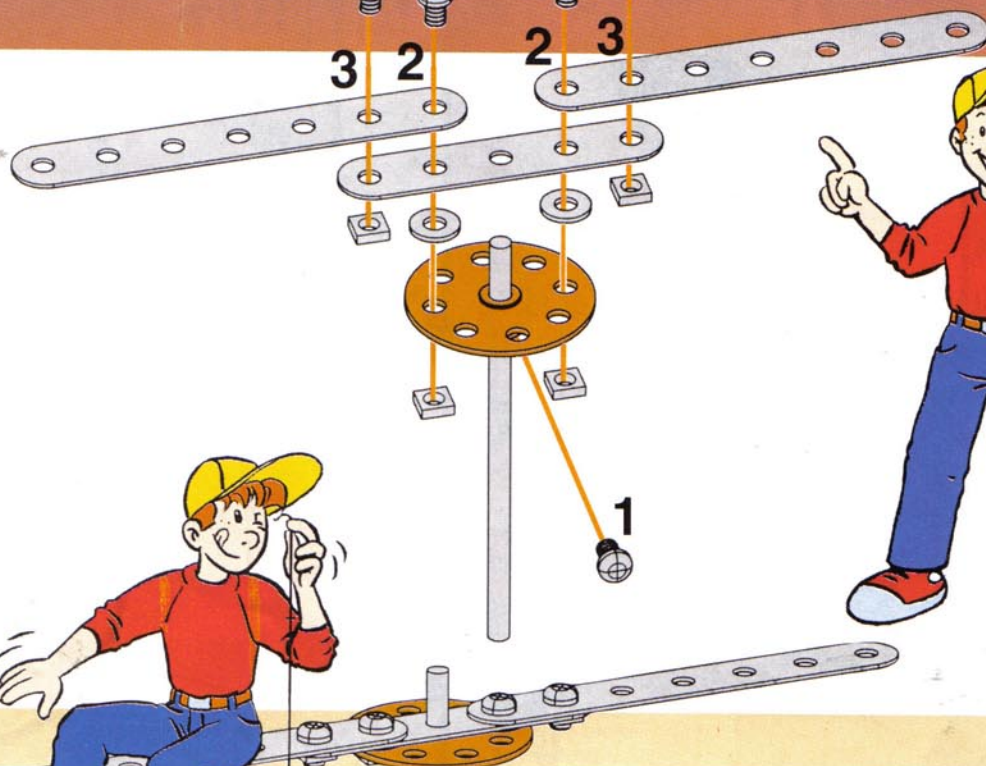
13 12+

-  ①
-  ②
-  ③ x 1
-  ④
-  — x 1
-  — x 1




14

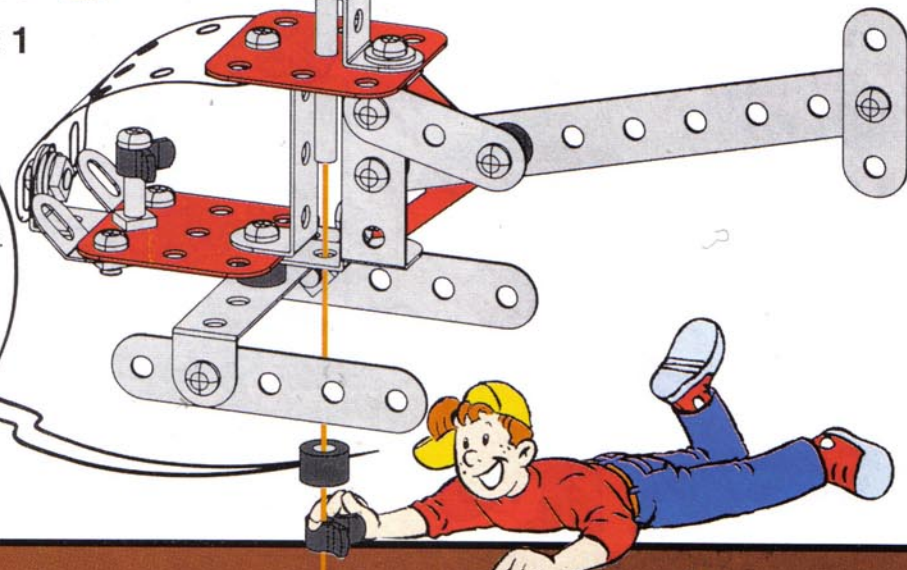
-  9 cm $\frac{3}{8}$ " x 1
-  x 2
-  x 1
-  x 1
-  x 2



15

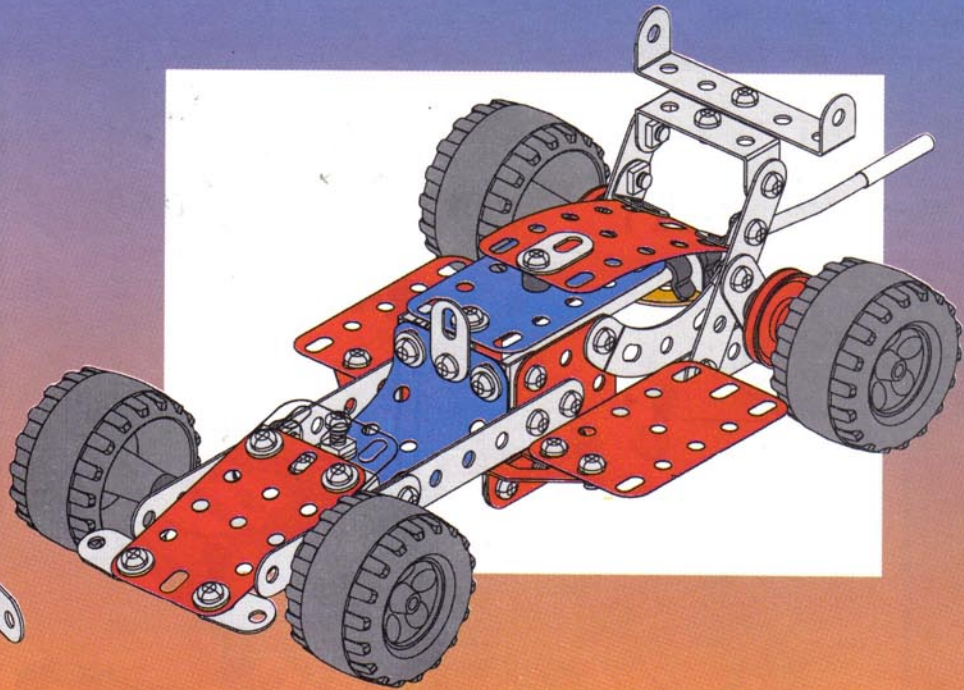
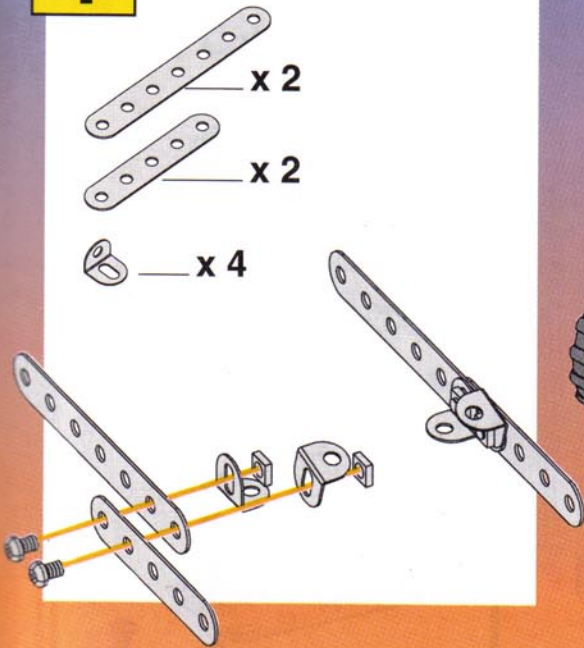
- 13 + 14 +
-  — x 1
-  — x 1

Align, adjust and then lock up the screws and nuts.
 Align, règle et après bloquer les vis et écrous.
 Richte aus, stelle ein und dann ziehst du die Schrauben und Muttern.
 Allinea, sistema e quindi blocca viti e dadi.
 Rikta justera och spänn sedan fast skruv och mutter.
 Kohdisti, säädä ja sitten lukitse ruuvit ja mutterit.
 Der reties ud, reguleres, huorefter skruer og møtrikker spændes til.
 Alinea, ajusta y luego aprieta los tornillos y las tuercas.
 Zet in één lijn, stel af en zet daarna de schroeven (*).
 Ευθυγράμμιση, ρύθμιση και μπλόκαρε τις βίδες και τα παξιμάδια
 並べて、合わせてから、ビスとナットで固定する。



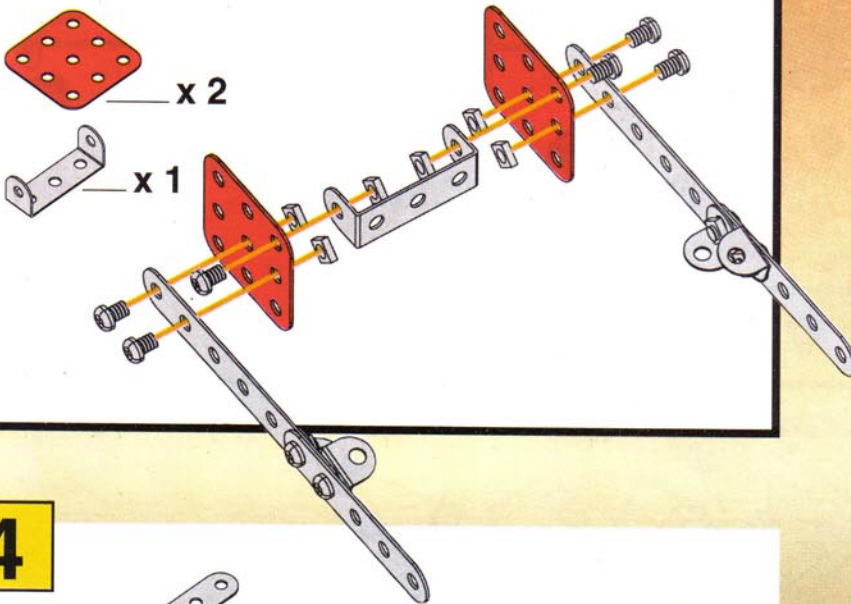
(* en de moeren vast

1



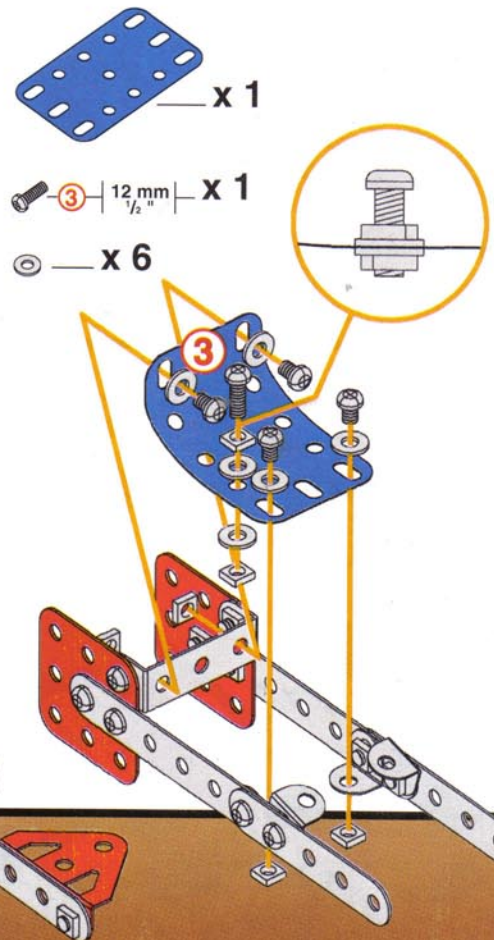
2

1 +

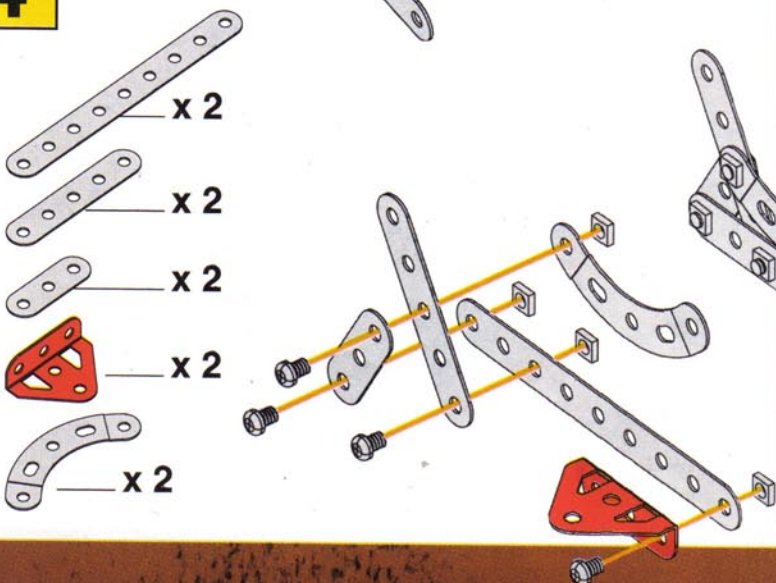


3

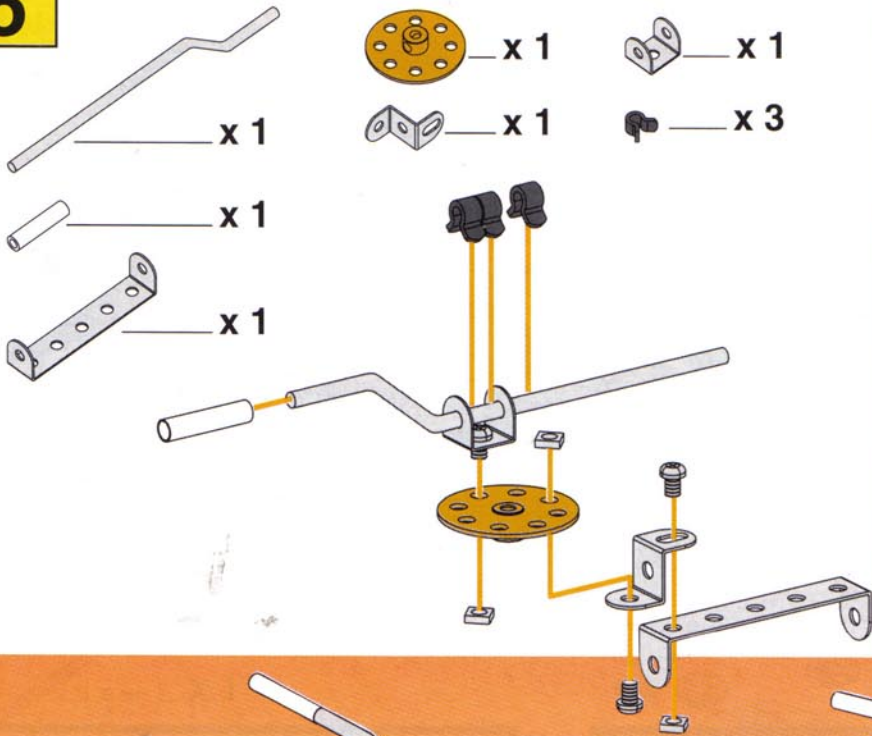
2 +



4

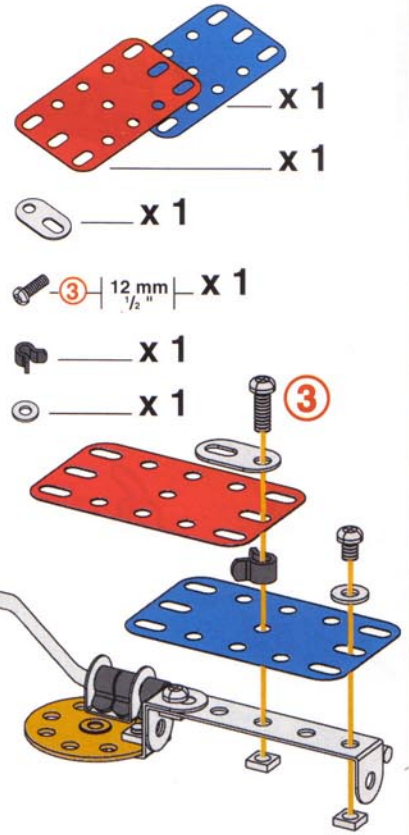


5



6

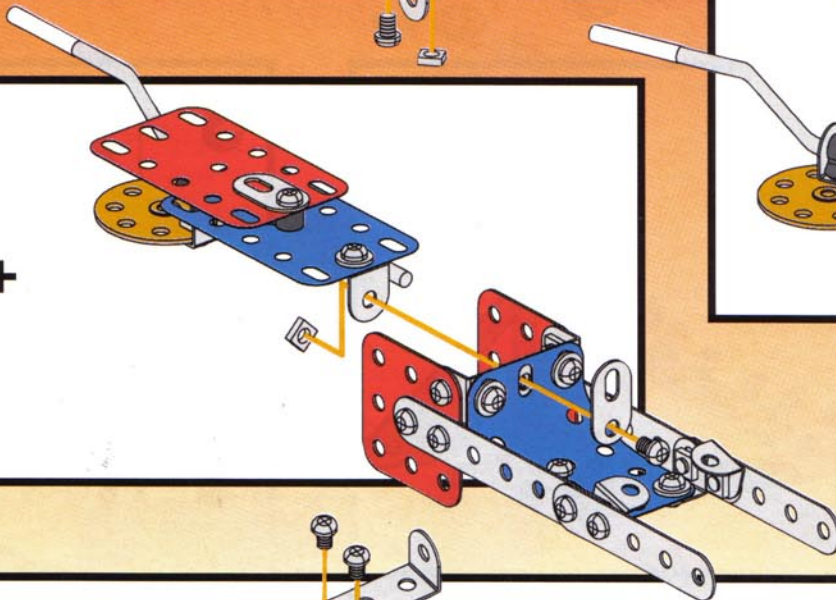
5+



7

3 + 6 +

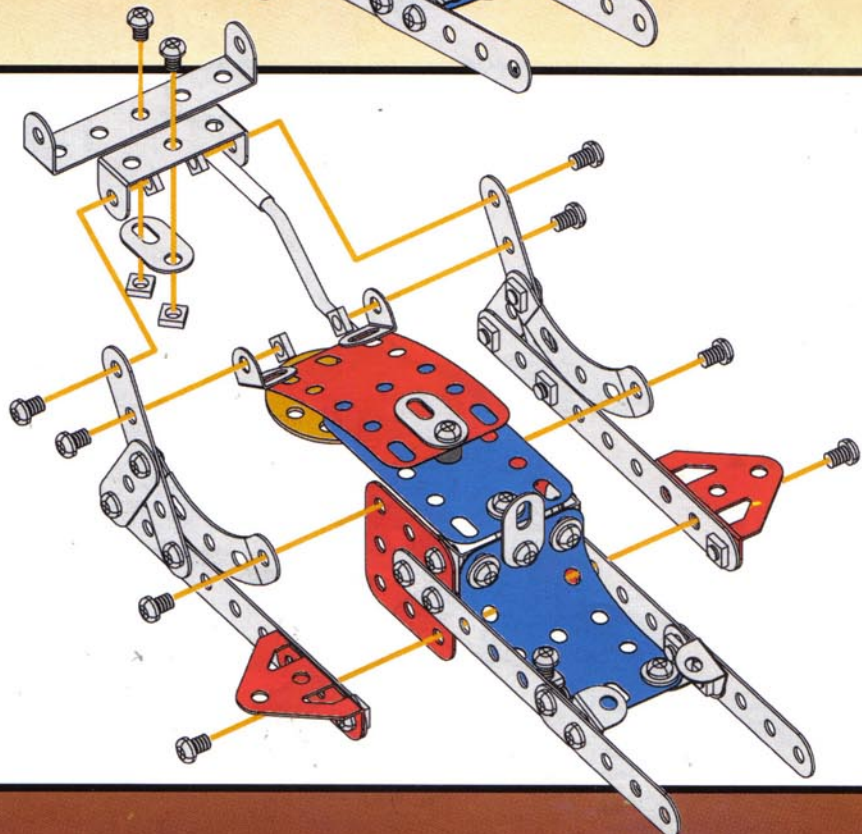
x 1



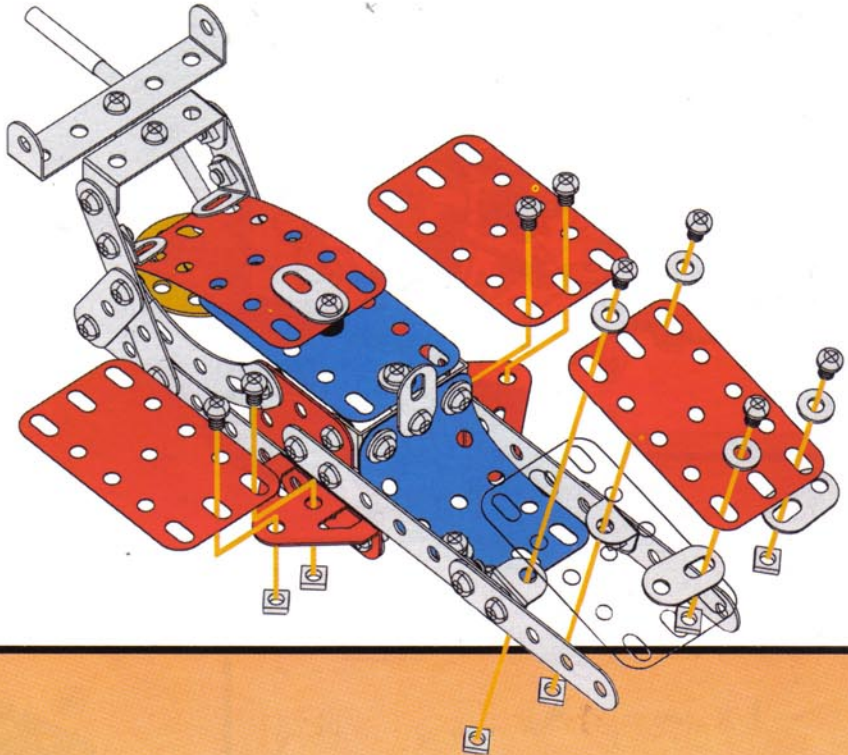
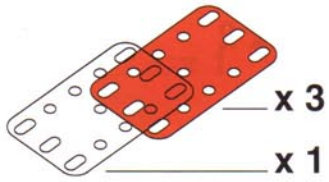
8

4 + 7 +

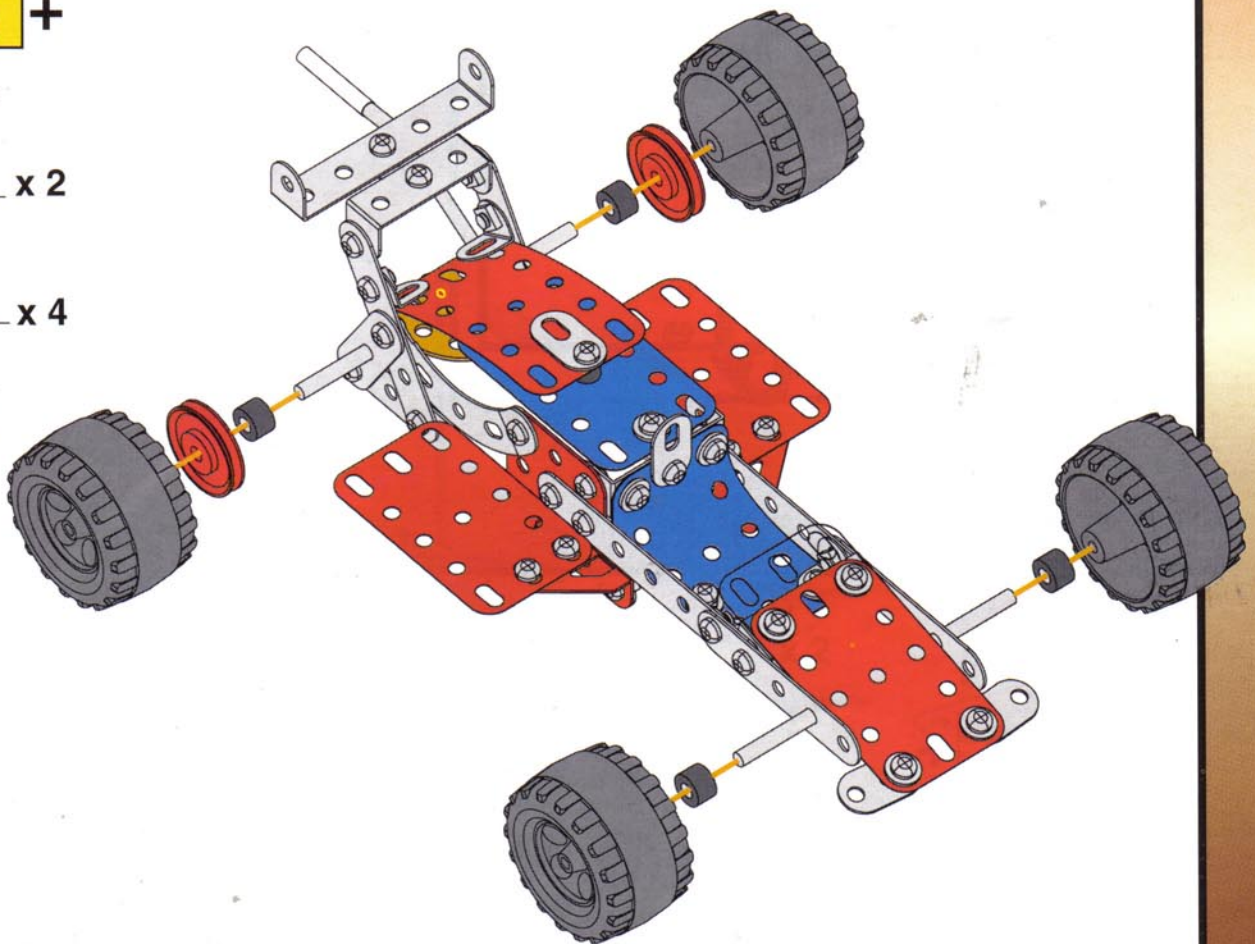
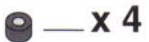
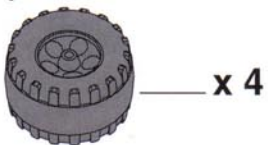
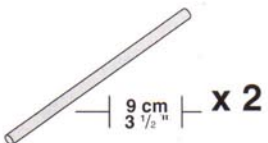
x 1
 x 1
 x 1
 x 2

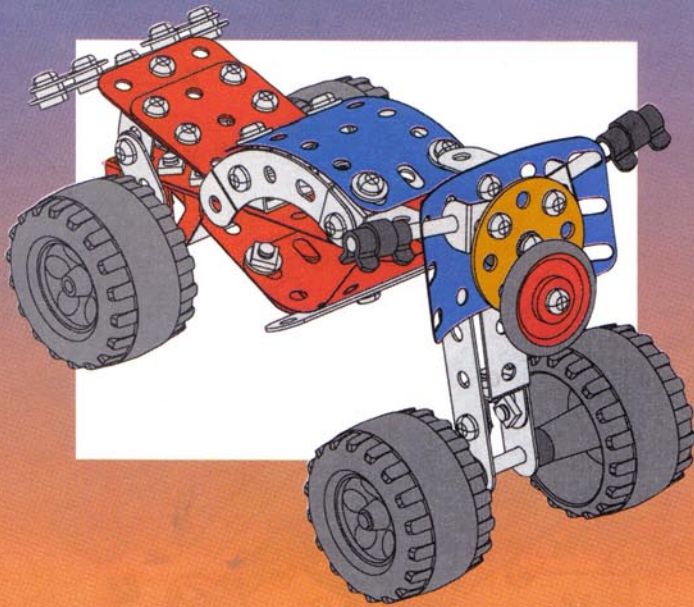


9 **8** +

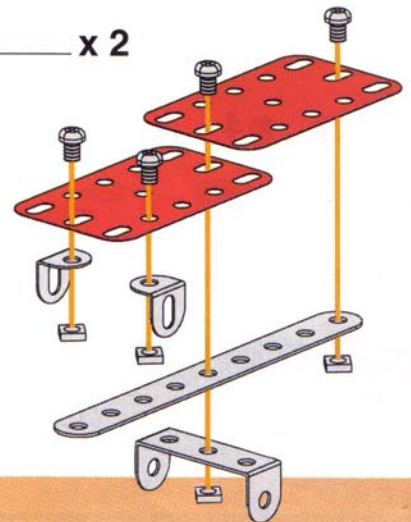
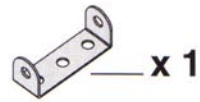
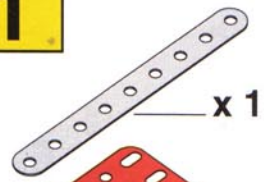


10 **9** +



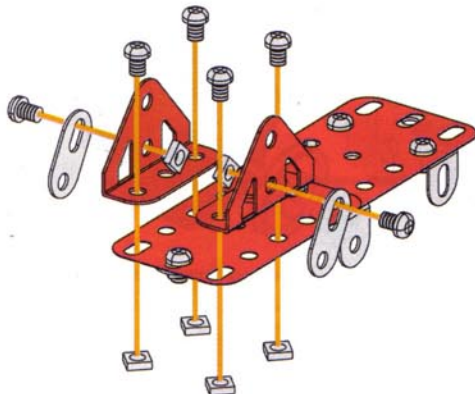
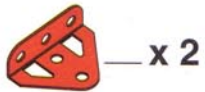


1

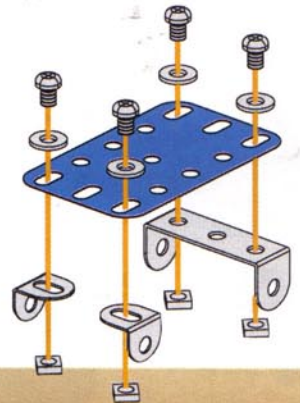
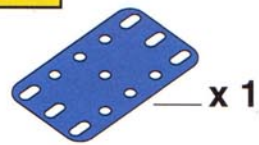


2

1 +

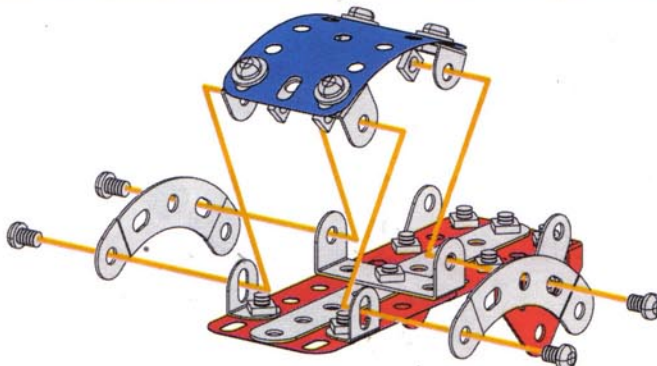


3

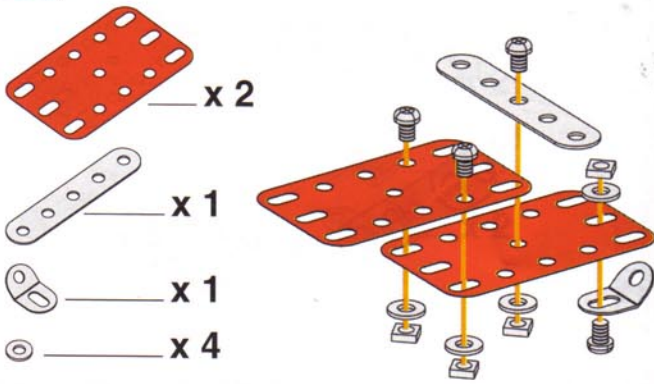


4

2 + **3** +

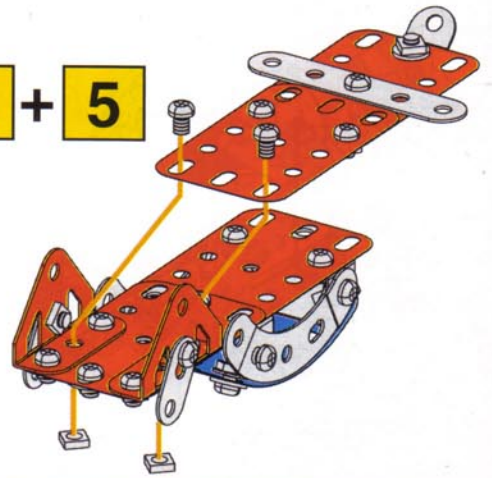


5

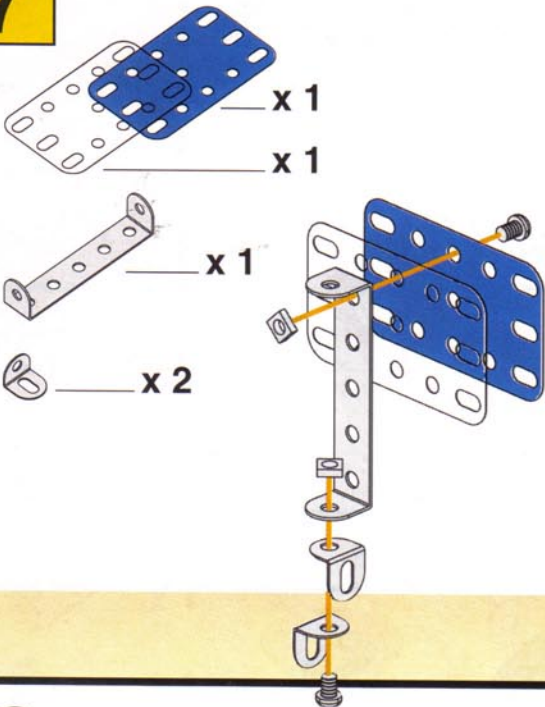


6

4 + 5



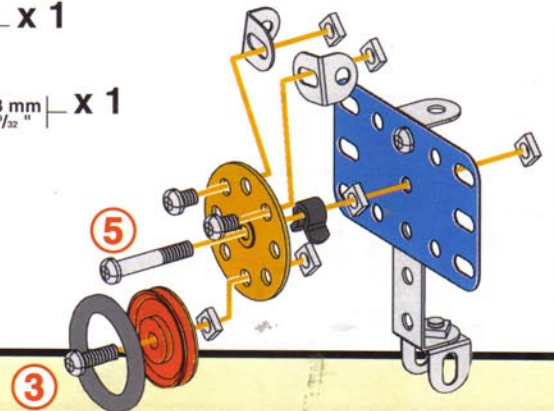
7



8

7 +

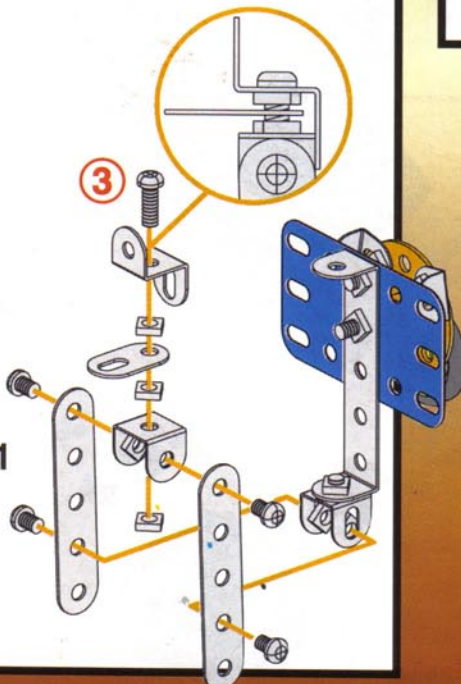
- x 1
- x 1
- x 1
- x 1
- x 2
- x 1
- x 1



9

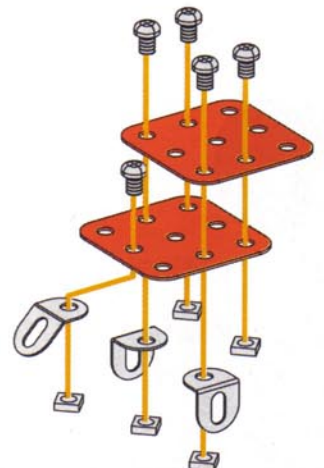
8 +

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

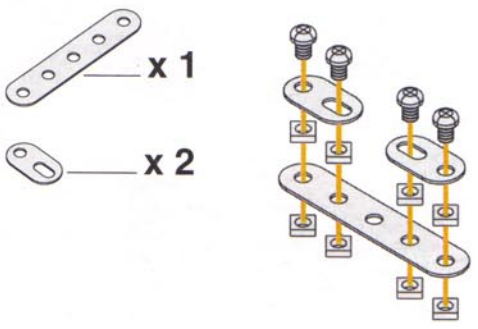


10

- x 2
- x 1
- x 2



11



12

10 + 11

The diagram shows a red Technic plate being attached to a white Technic beam assembly from step 11 using a yellow Technic pin.

13

6 + 9 + 12 +

x 3

The diagram shows a sub-assembly from step 12 being attached to a larger blue and red Technic frame. Three yellow Technic pins are used to secure the connection.

14

13 +

9 cm | x 2
3 1/2"

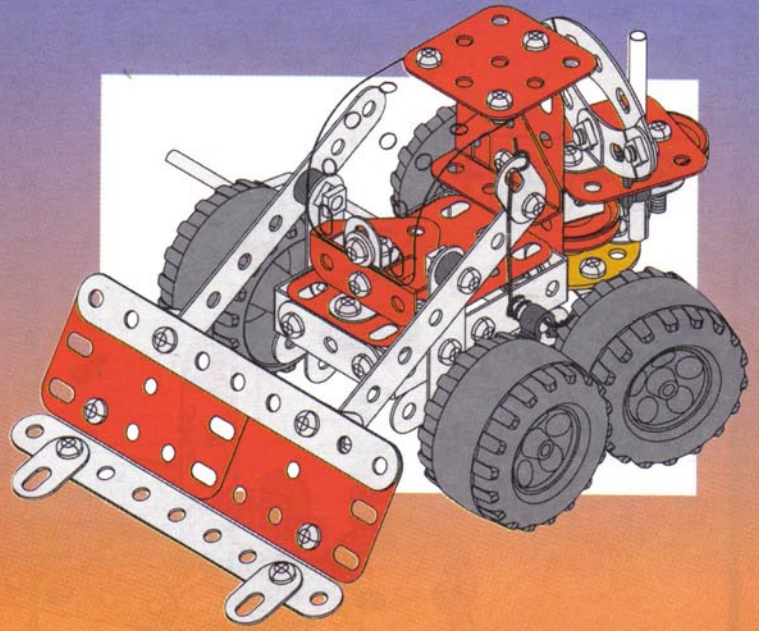
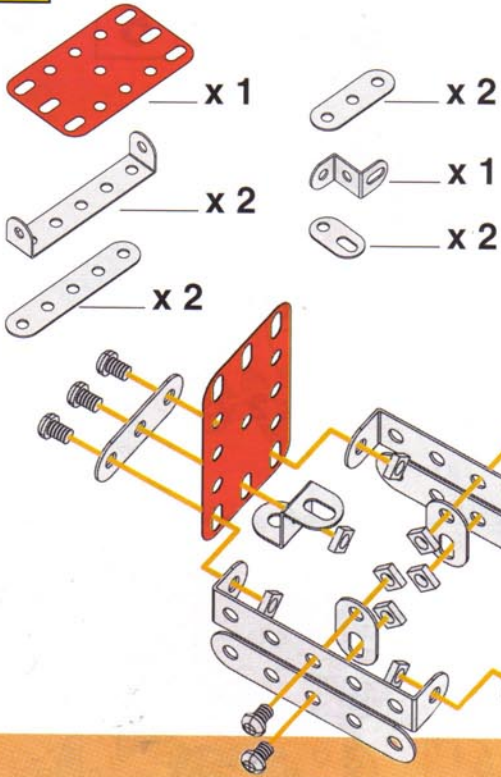
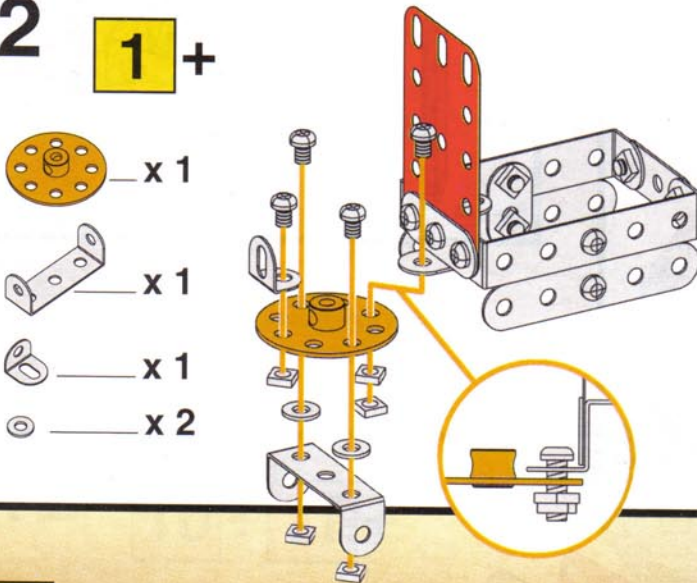
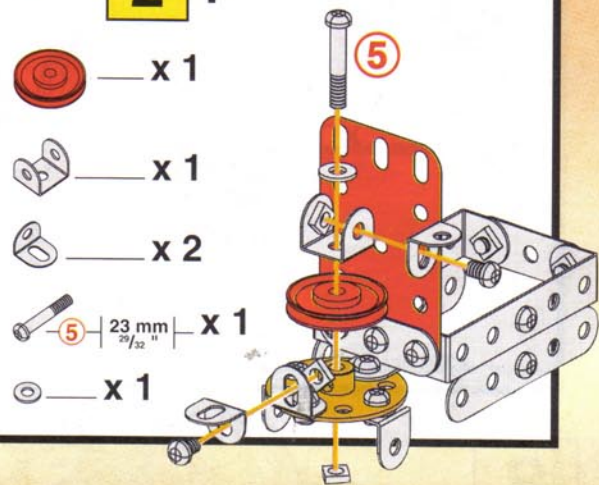
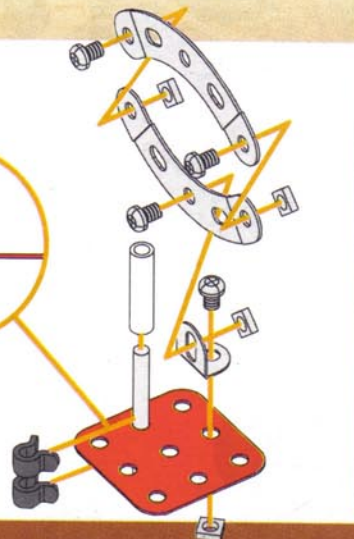
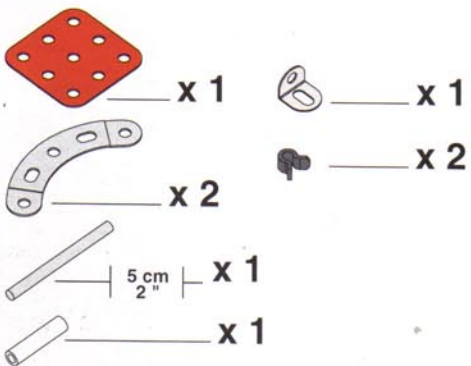
5 cm | x 2
2"

x 4

x 4

x 4


The diagram shows the final assembly with four grey wheels being mounted onto the frame. Two long white axles (9 cm) and two shorter white axles (5 cm) are used. Four black axles with pins are also shown.

1**2** **1**+**3** **2**+**4**

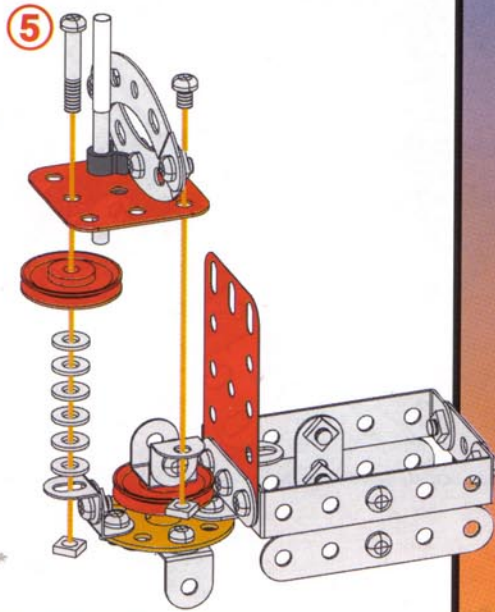
5

3 + 4 +

 x 1

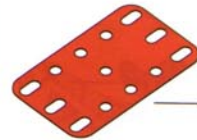
 23 mm x 1


 x 6



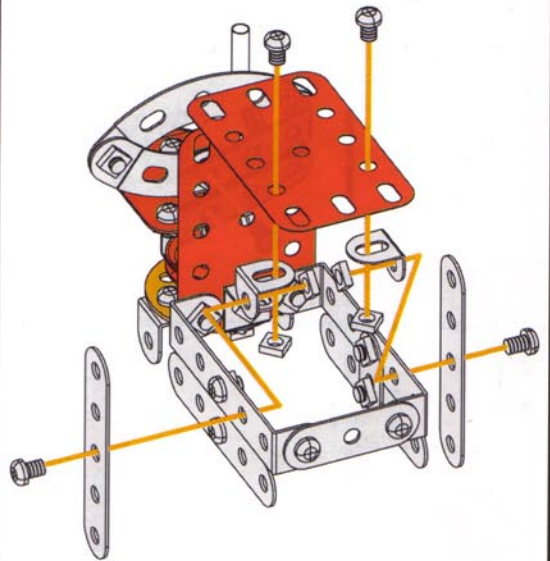
6

5 +

 x 1

 x 2


 x 2

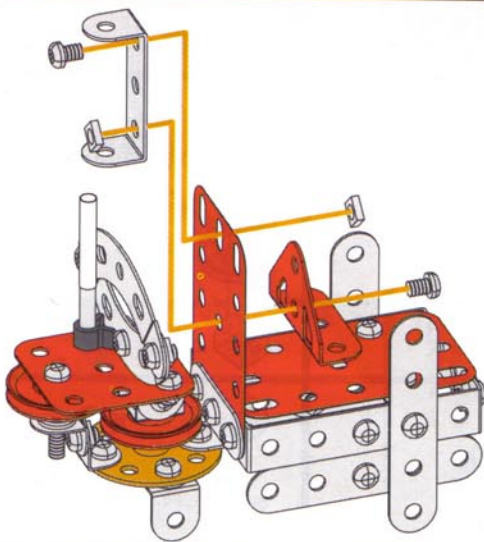


7

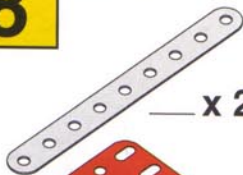
6 +

 x 1

 x 1




8

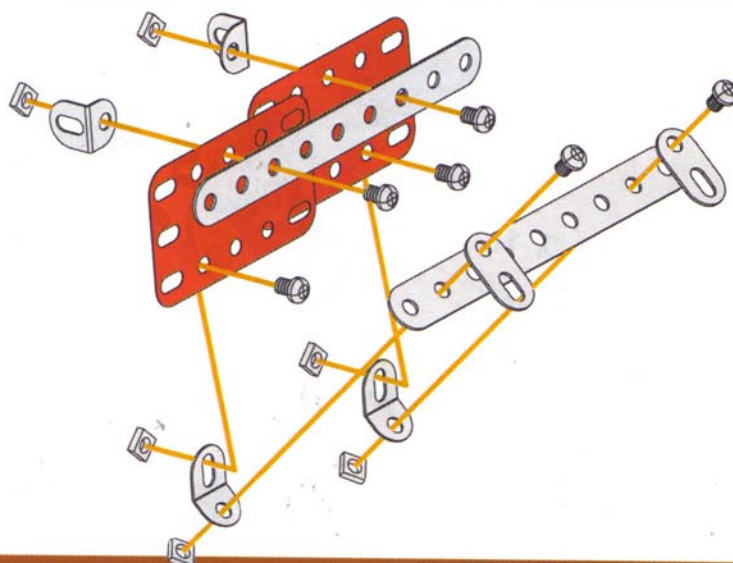
 x 2

 x 2

 x 2

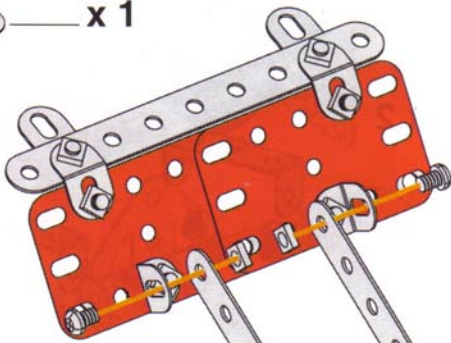
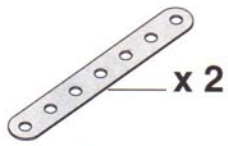
 x 2

 x 2



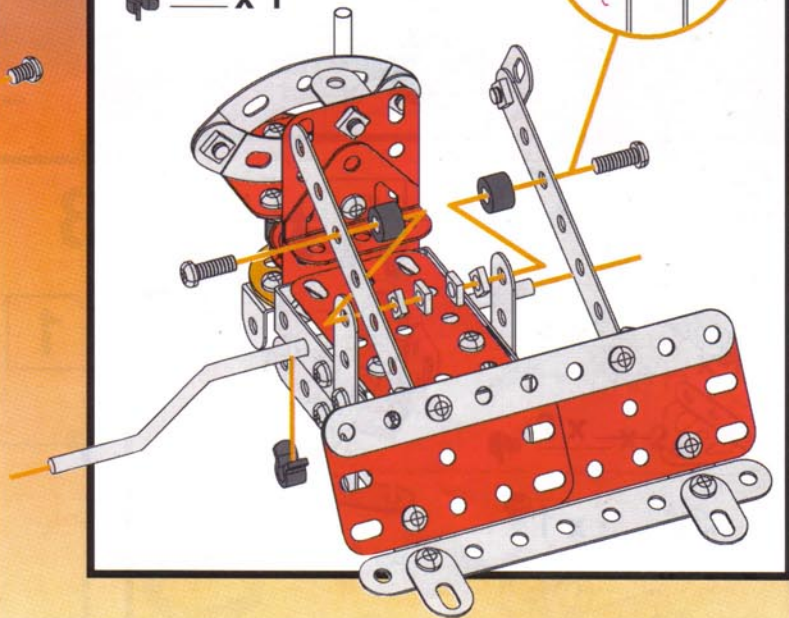
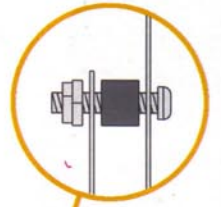
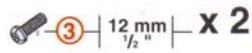
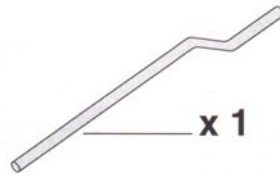
9

8+

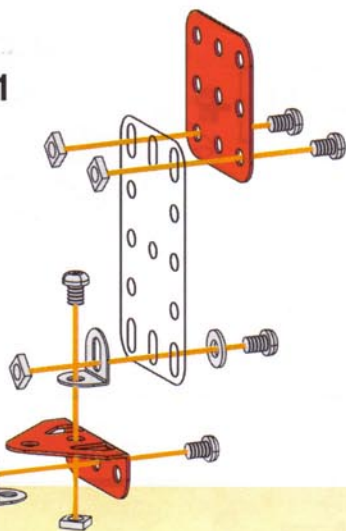
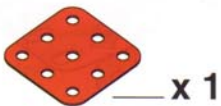
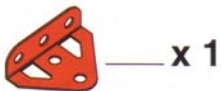
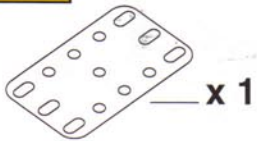


10

7+9+

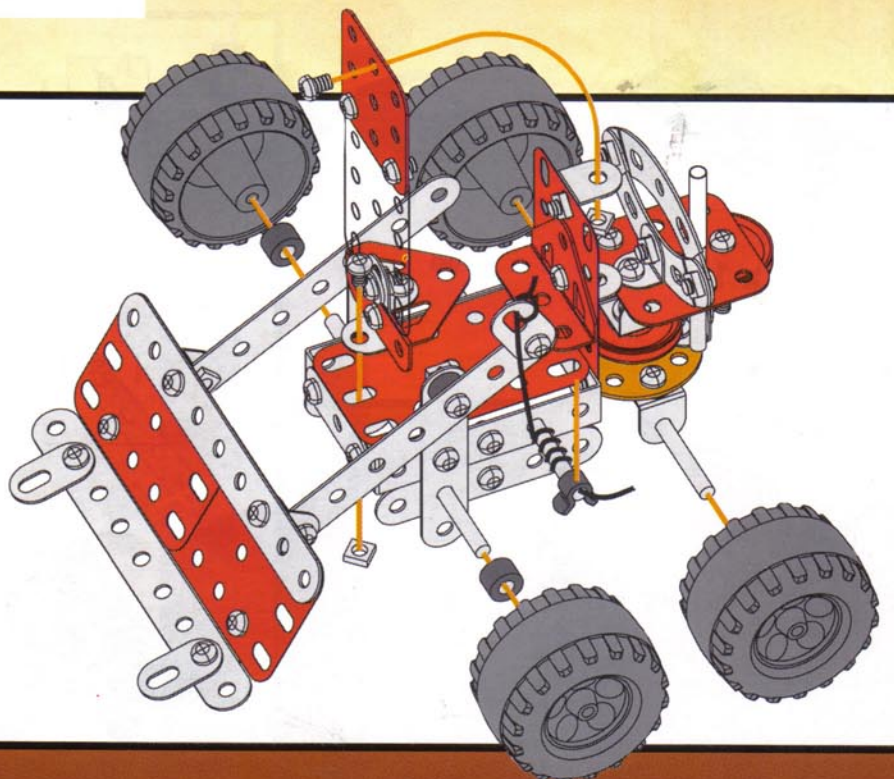
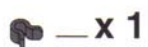
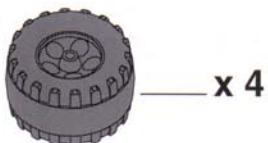
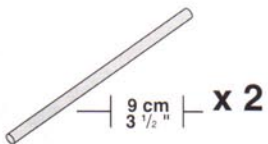


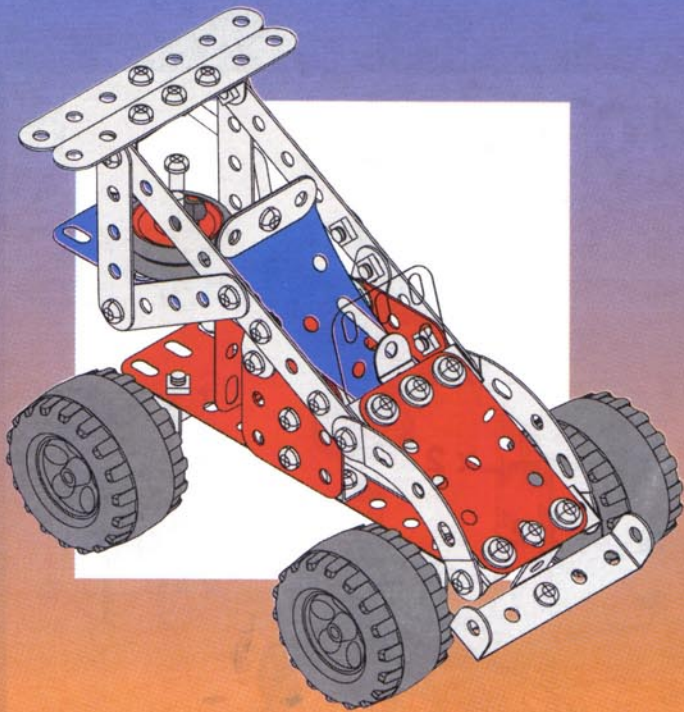
11



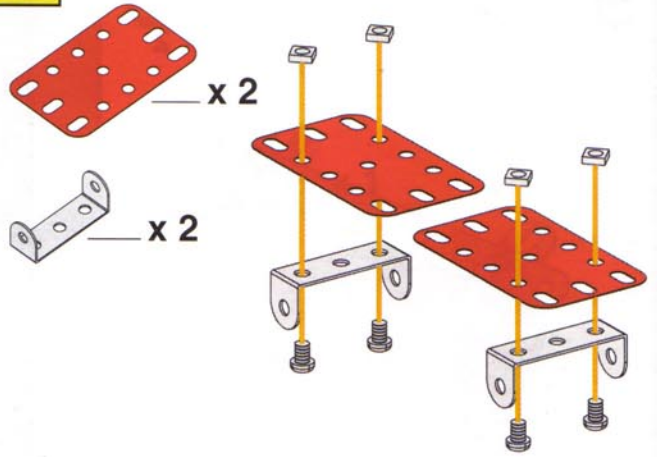
12

10+11+

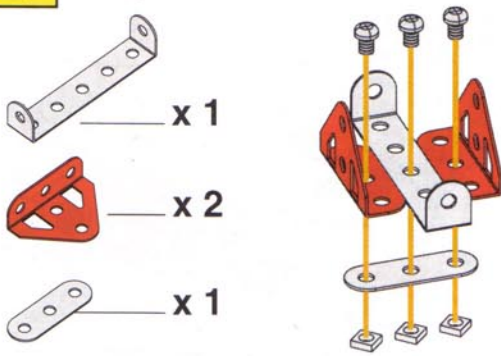




1



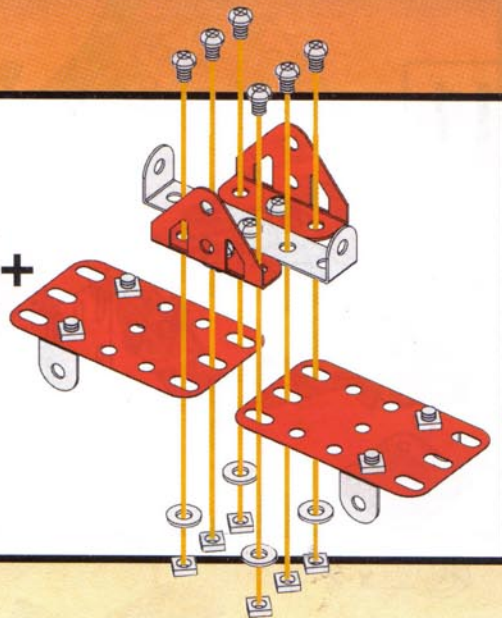
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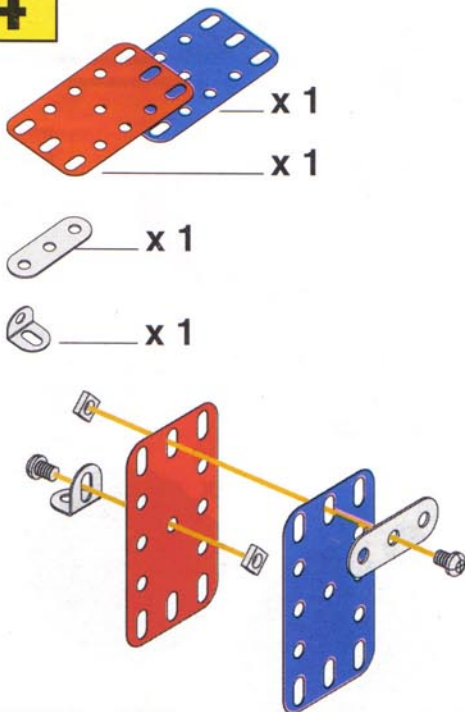
3

1 + **2** +

○ — x 4

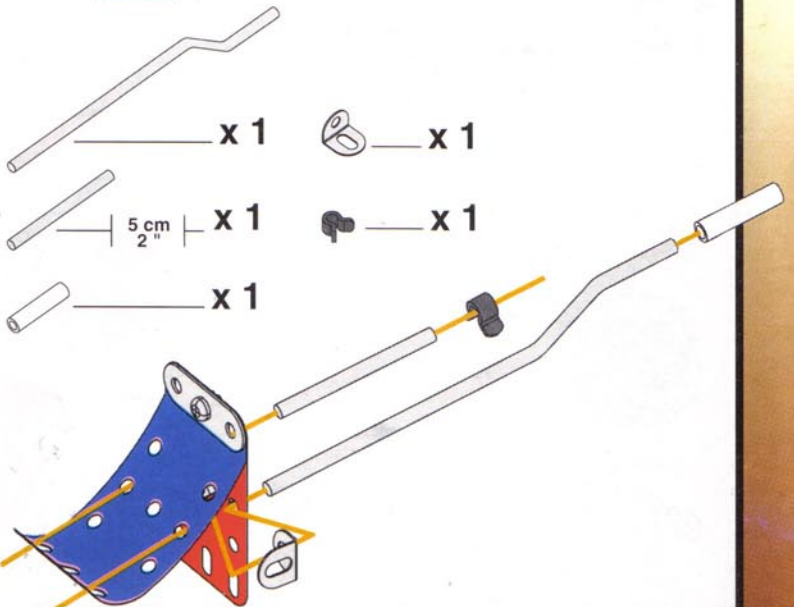


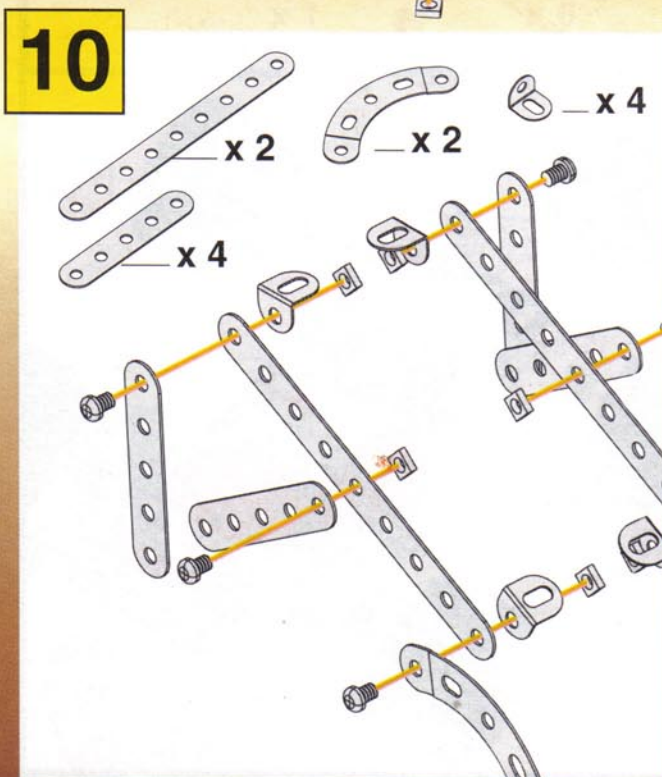
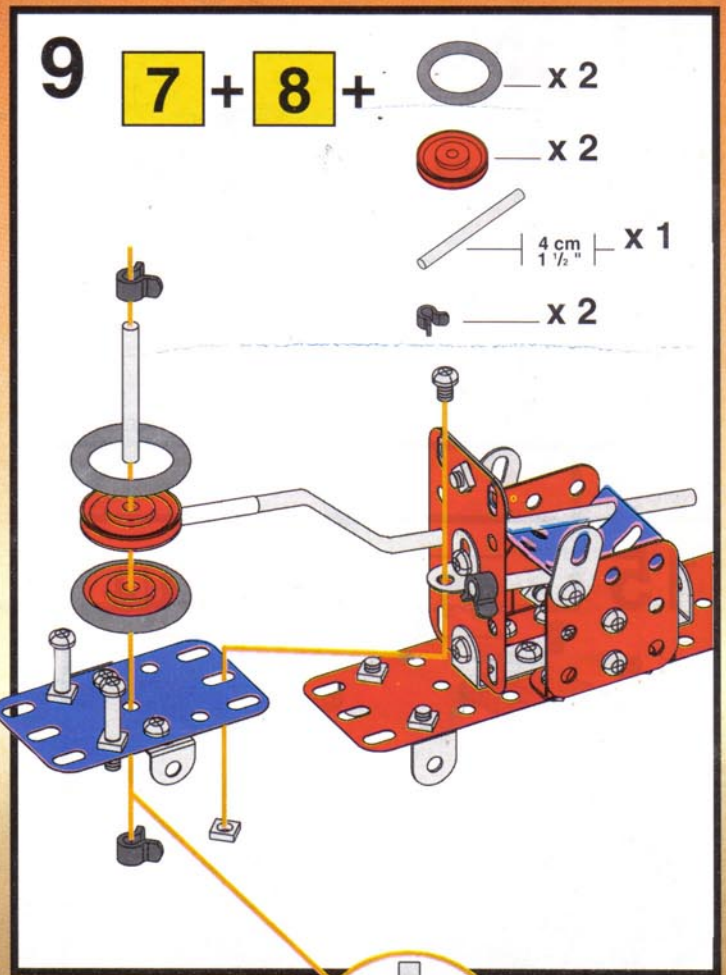
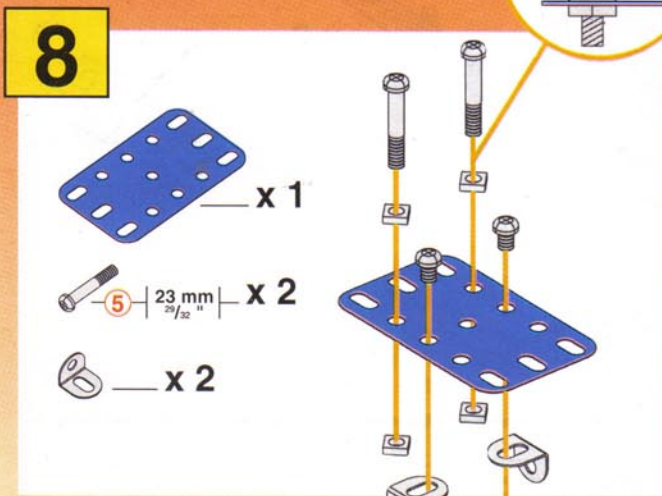
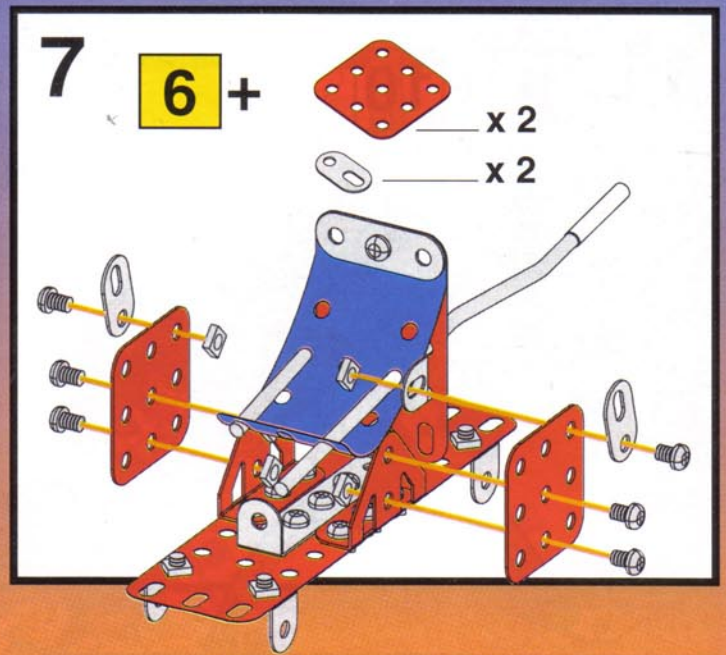
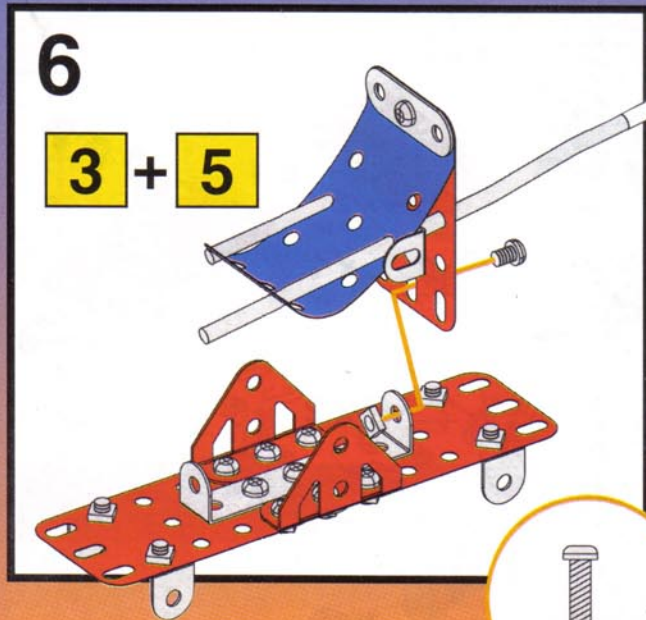
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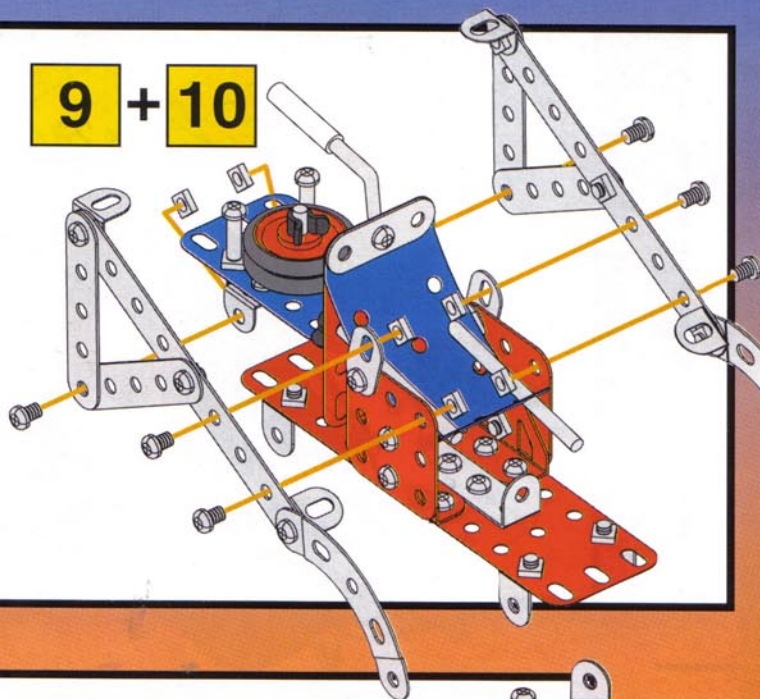
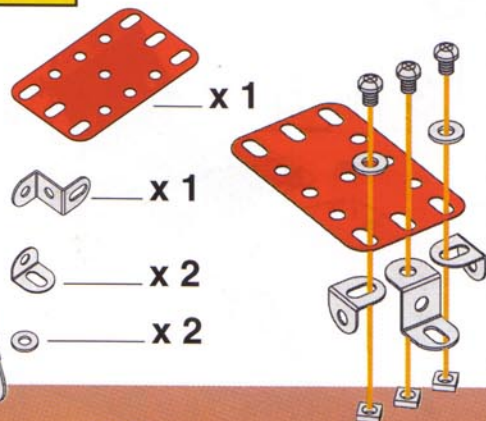
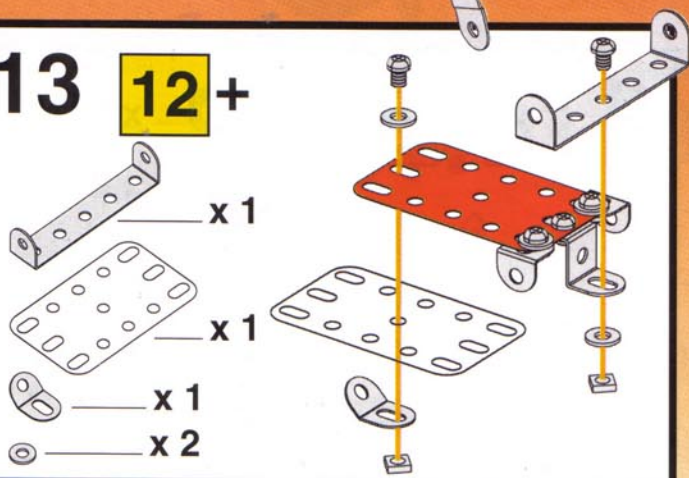
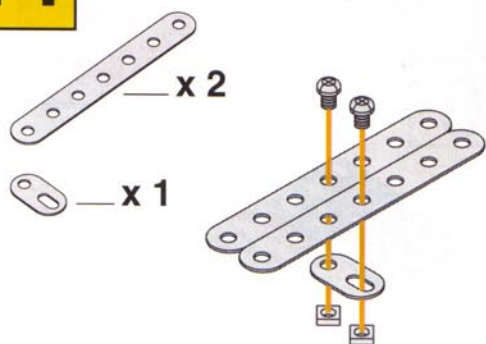
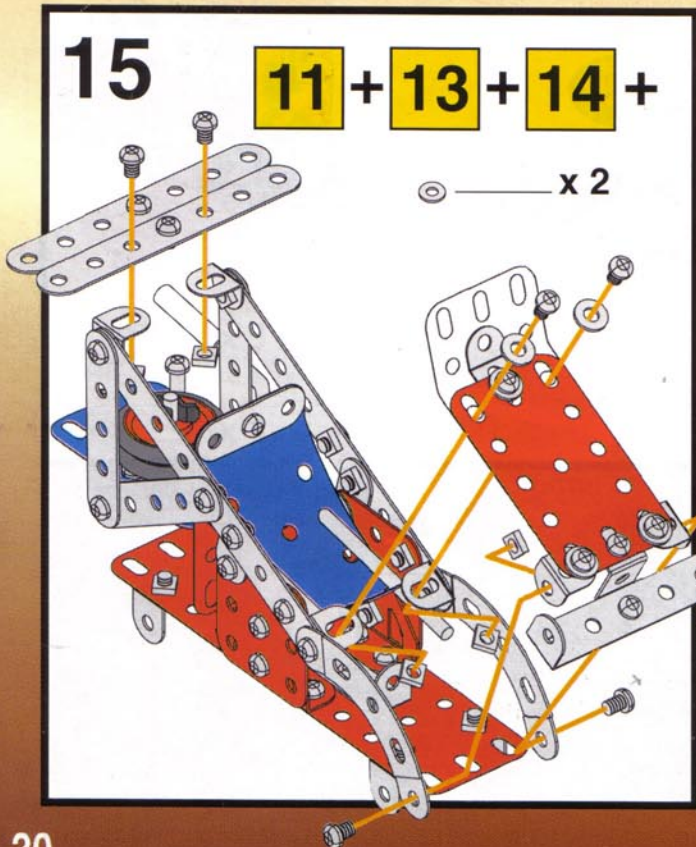
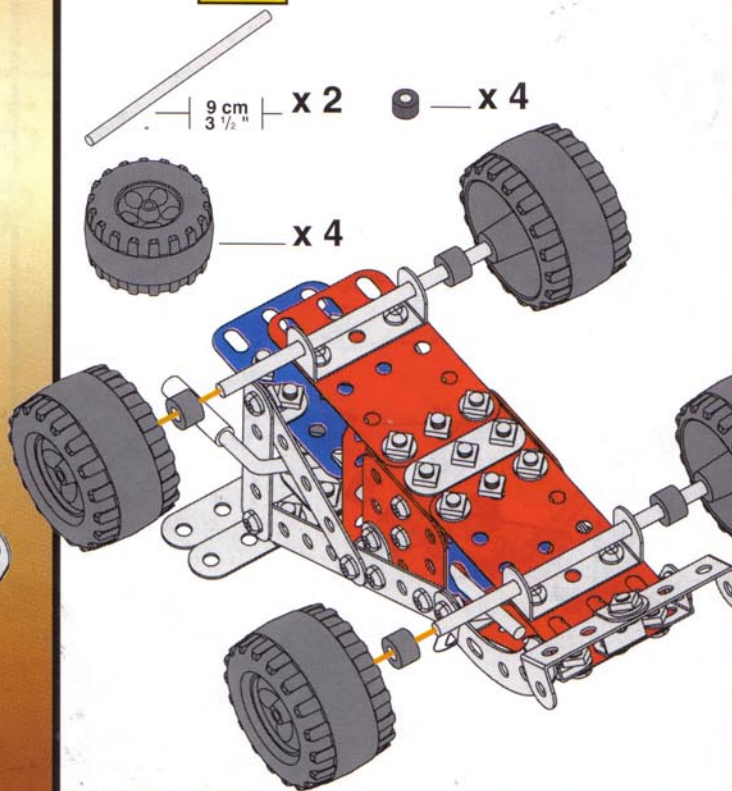


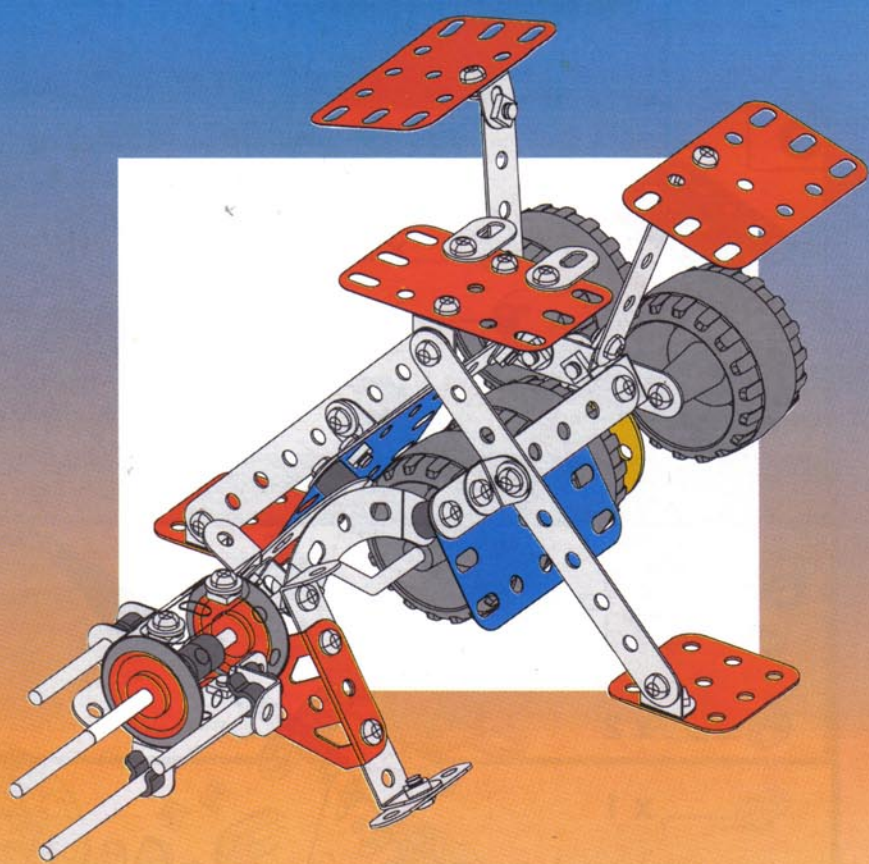
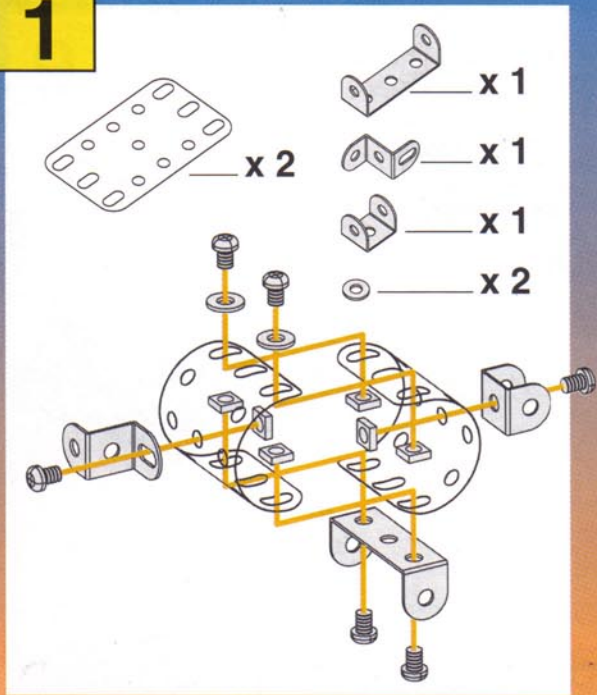
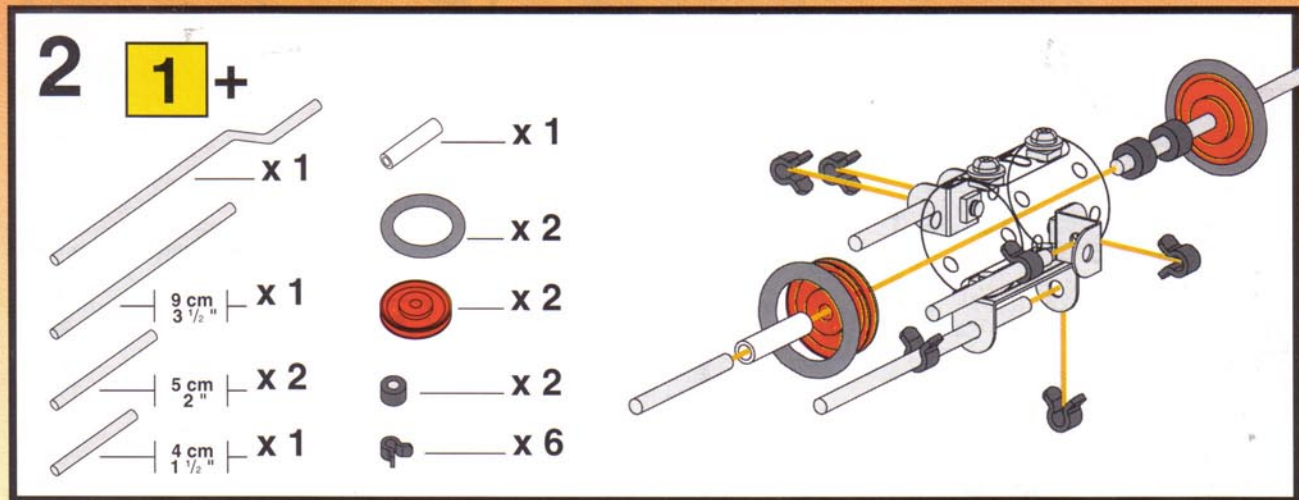
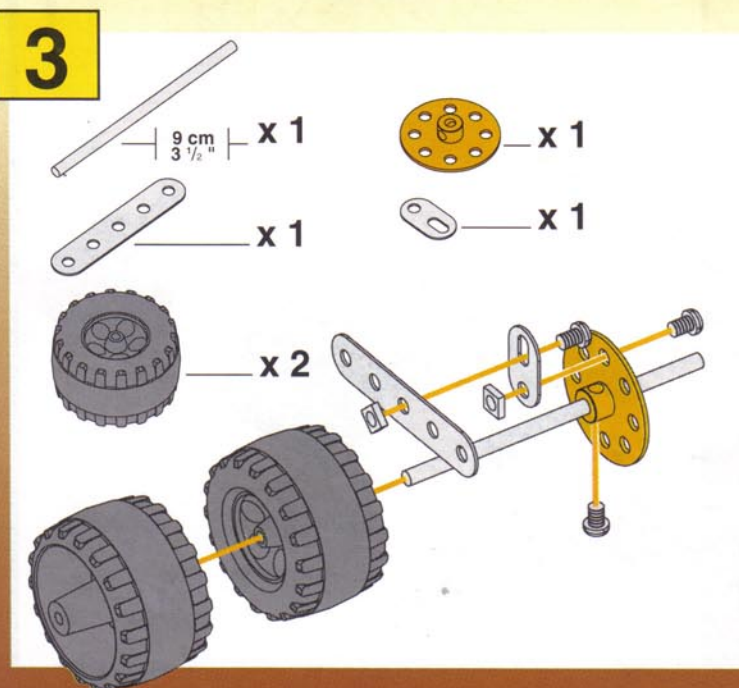
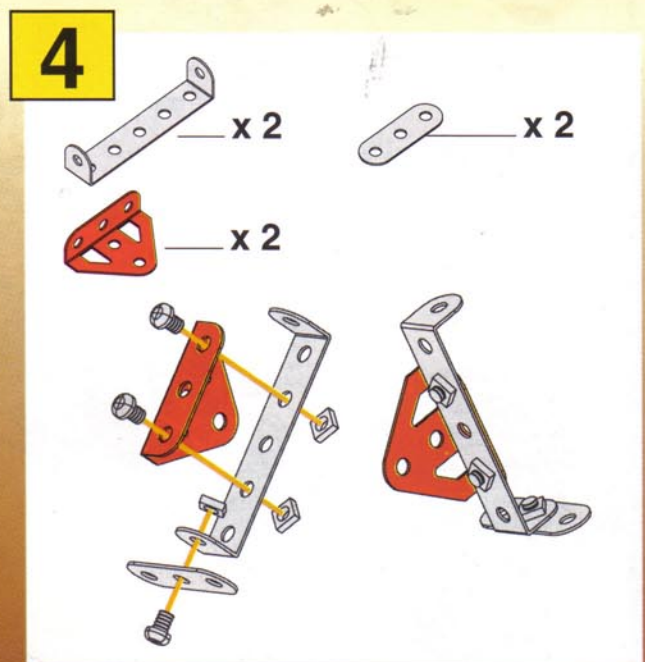
5

4 +


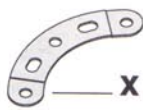




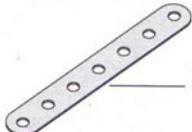


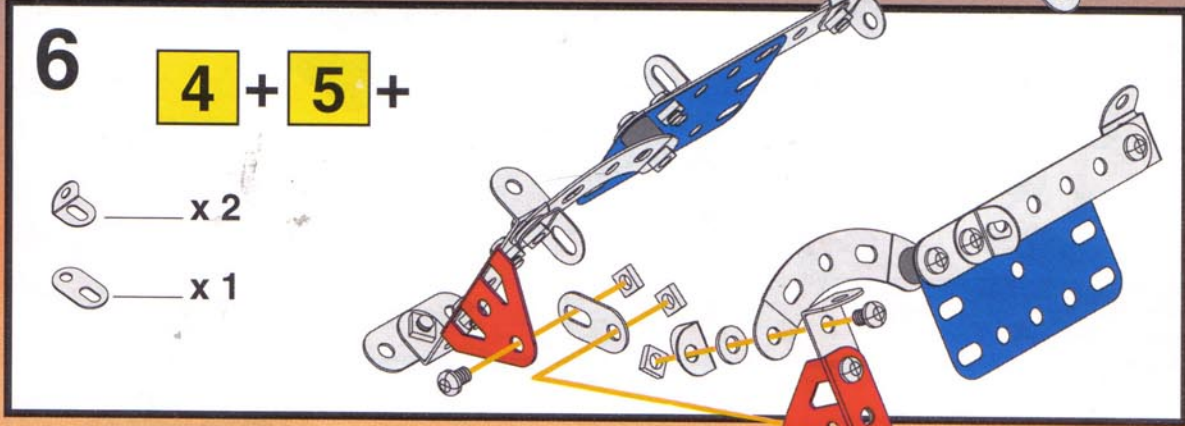
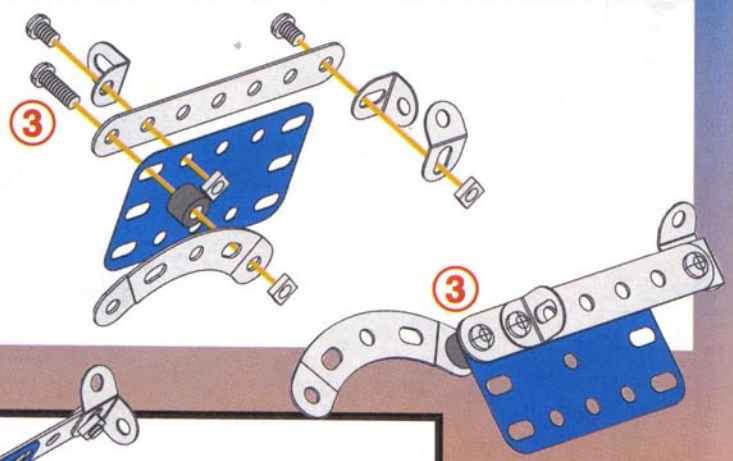


11**9 + 10****12****13****12 +****14****15****11 + 13 + 14 +****16****15 +**

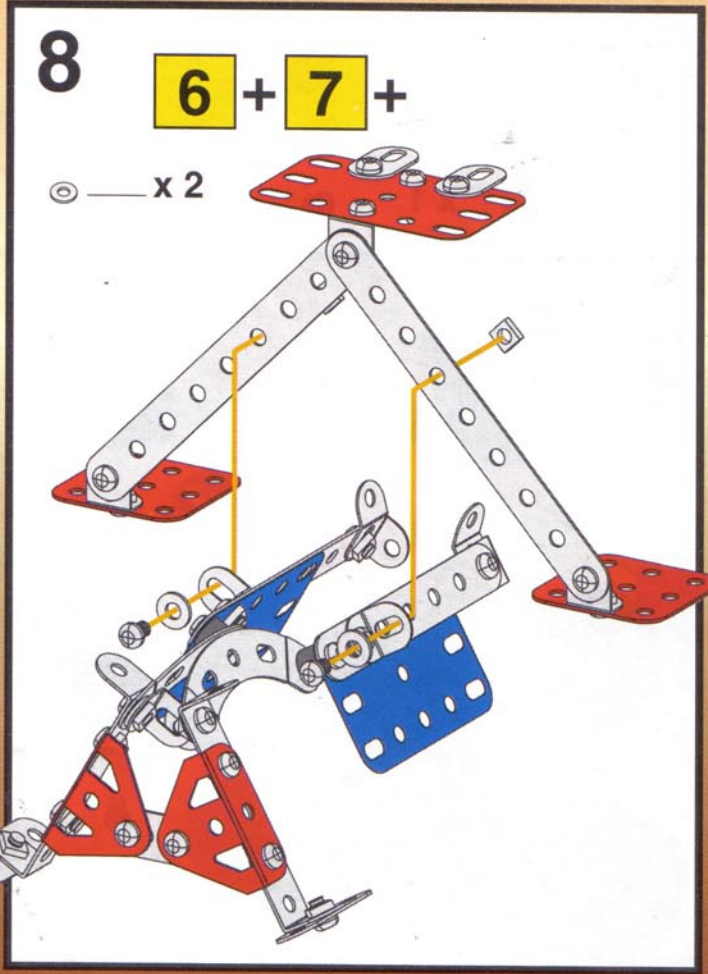
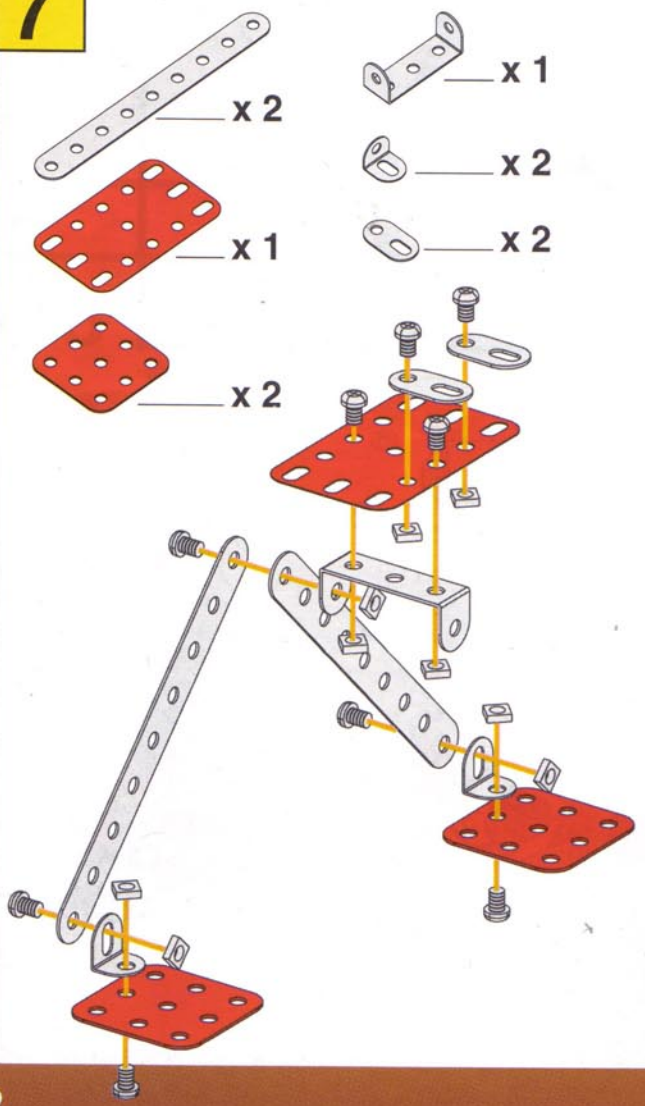
1**2** **1**+**3****4**

5

-  x 2
-  x 2
-  x 4
-  x 2
-  x 2
-  (3) | 12 mm | 1/2" | x 2
-  x 2

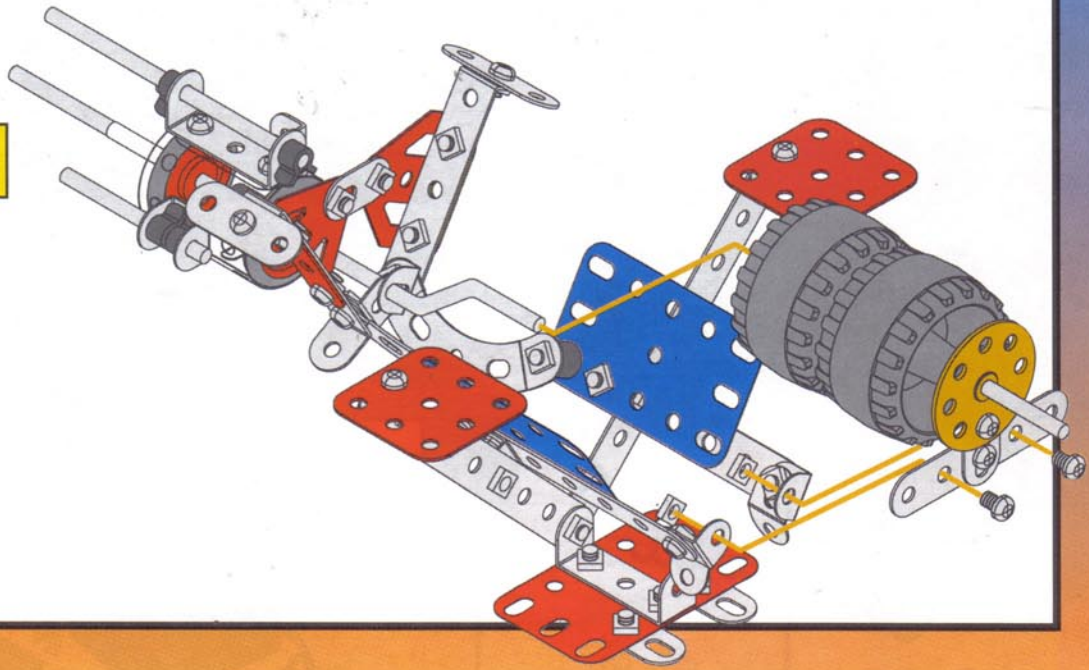


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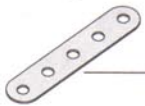



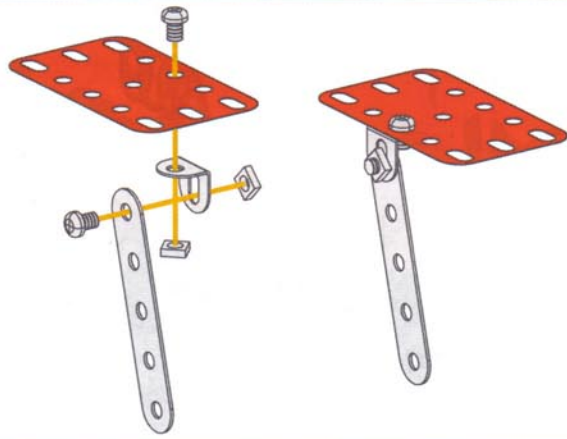
9

2 + 3 + 8





10

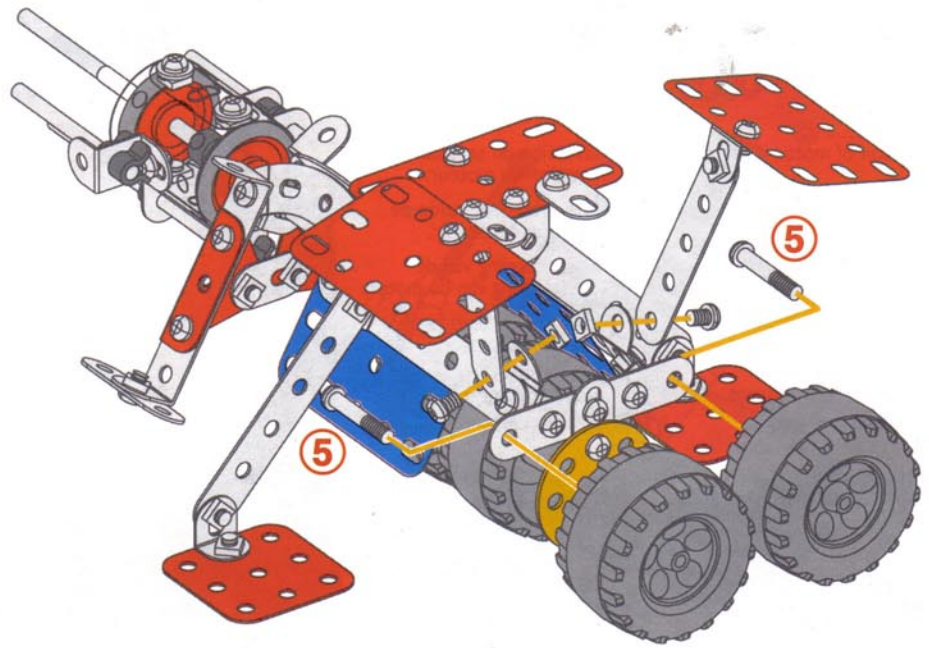
-  x 2
-  x 2
-  x 2



11

9 + 10 +

-  23 mm $\frac{29}{32}$ " x 2
-  x 2



GB Set up of the contact tongues on batteries housing.

D Montagen der Kontaktfedern auf Batteriekasten.

I Montaggio dei contatti sul portapile.

S Placering av batterikontakter i batterihallären.

SF Paristojen kontaktin säätö.

DK Samling af pladerne på batteriholdere.

F Montage des lames sur boîtier de piles.

E Montar las lenguetas en la caja de pilas.

NL Montage van de contac punten op de batterijdoos.

P Montagen dos contactos na caixa vas pilhas.

GR Σύνδεση τις επαφές στο κιβώτιο με τις μπαταρίες

JPN 電池ボックスの薄板の組付け

GB Connexion of the electric motor.

D Motorisierung anleitung.

I Montaggio dell'insieme motorizzazione.

S Anslutning av elmotor.

SF Moottorin kytkentä.

DK Samling af motordel.

F Montage de l'ensemble motorisation.

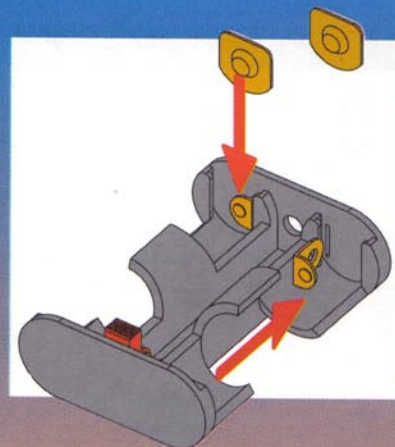
E Montaje de la junta de motorización.

NL Montage van de gemotoriseerde set.

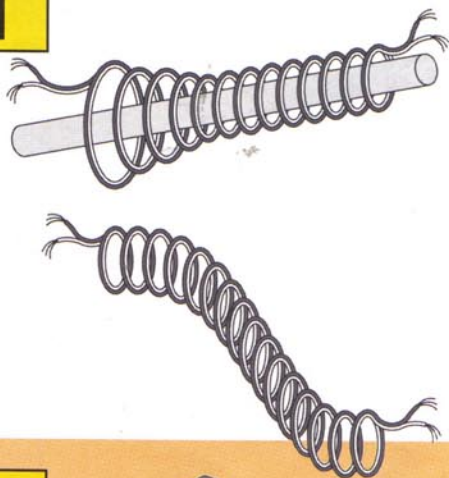
P Montagen das ligacões de motor electrico.

GR Συναρμολόγηση τον κινητήρα

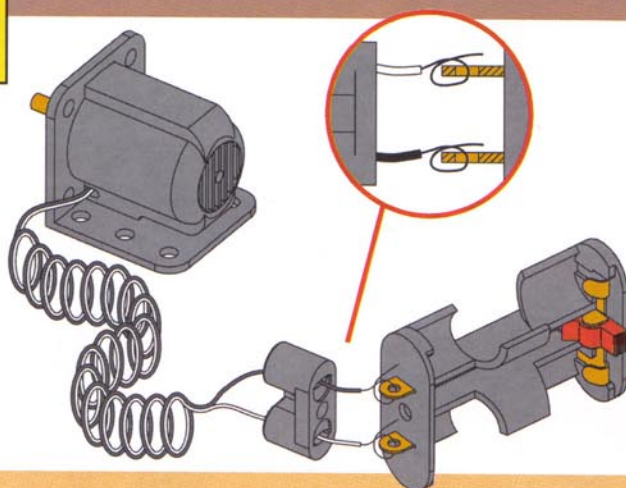
JPN モーターの組付け



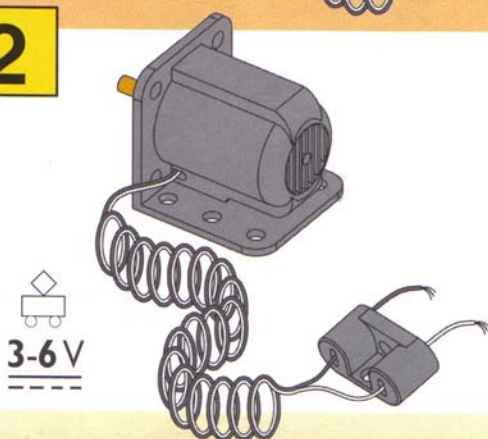
1



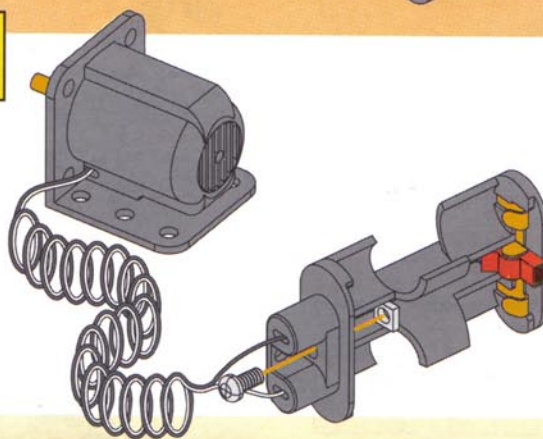
3



2



4



GB Inversion of motor direction.

D Laufrichtungs - Umschalter.

I Inversione del senso di rotazione del motorino.

S Förändring av rörelseriktning.

SF Moottorin pyörimissuunnan muuttaminen.

DK Omvendning af motorens omdrejningsreining.

F Inversion du sens de rotation du moteur.

E Inversion del sentido de rotación del motor.

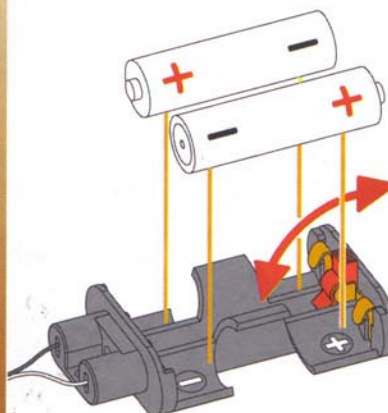
NL Omschakeling van de draairichting van de motor.

P Inversão do sentido de rotação do motor.

GR Αναστροφή της φοράς περιστροφής του κινητήρα

JPN モーター反転

5

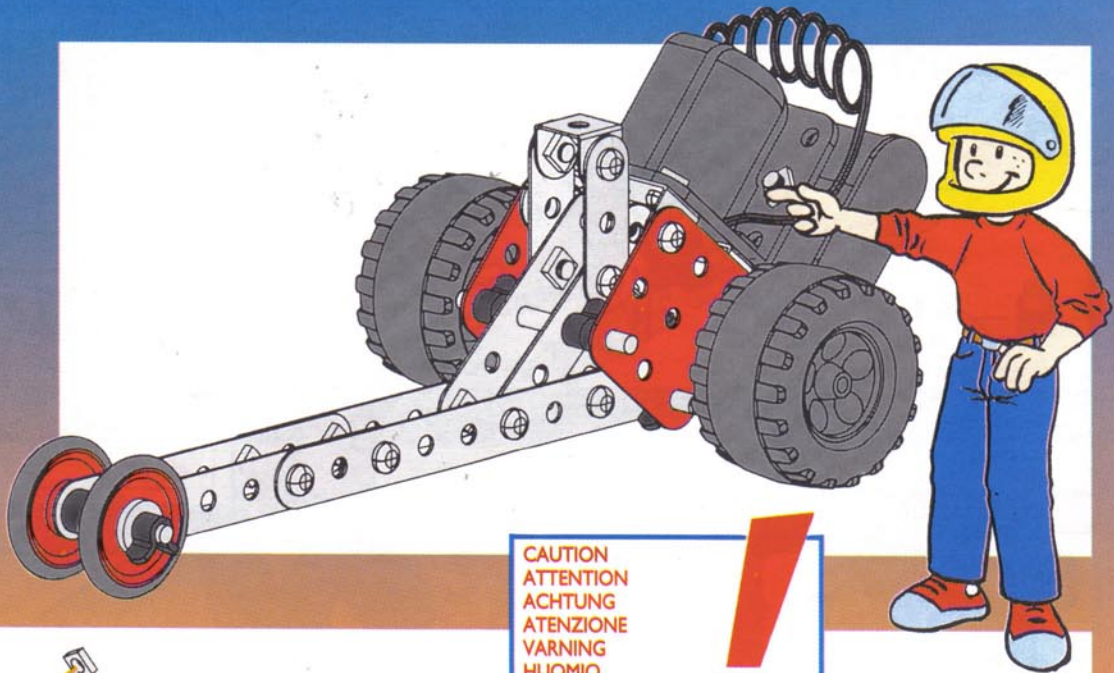
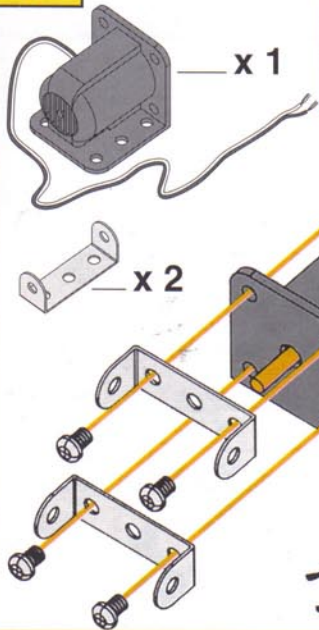


CAUTION
ATTENTION
ACHTUNG
ATENZIONE
VARNING
HUOMIO
UDVIS FORSIGTJGHED
ICUIDADO
WAARSCHUWING
CUIDADO
ΠΡΟΣΟΧΗ
電気に注意!

R6
MIGNON
AM3
x 2



1



CAUTION
 ATTENTION
 ACHTUNG
 ATENZIONE
 VARNING
 HUOMIO
 UDVIS FORSIGTJGHED
 ICUIDADO
 WAARSCHUWING
 CUIDADO
 ΠΡΟΣΟΧΗ
 電気 to 注意!

R6
 MIGNON
 AMS
 単 III

x 2



2

1 +

x 1

3

2 +

x 1

4

3 +

9 cm
 3 1/2"

x 1



x 1

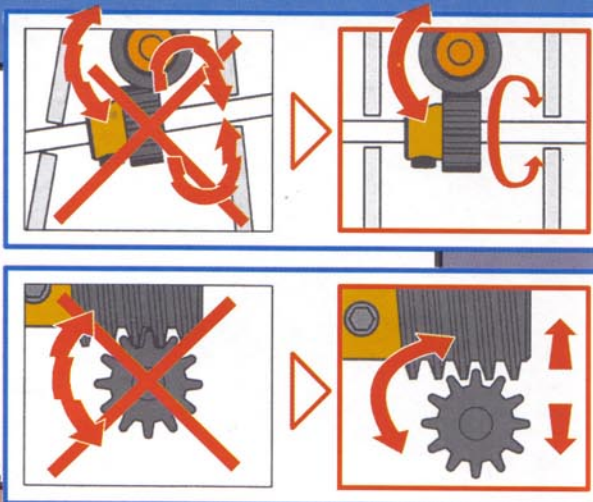
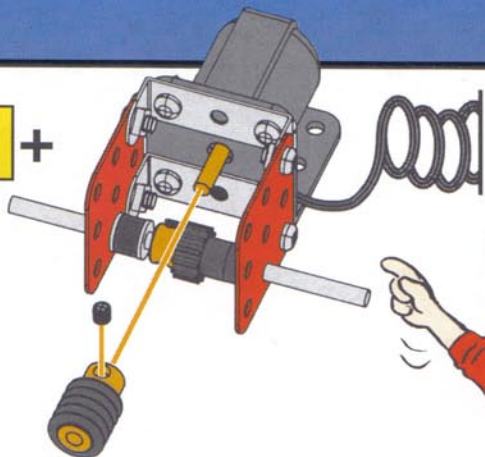
x 3

x 3



5 **4** +

-  x 1
-  x 1



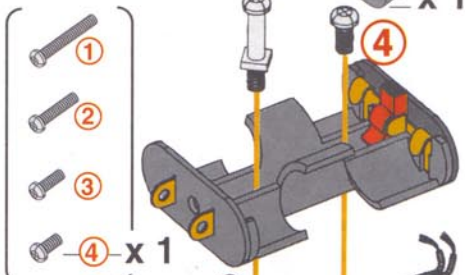
6



 23 mm $\frac{29}{32}$ x 1


7

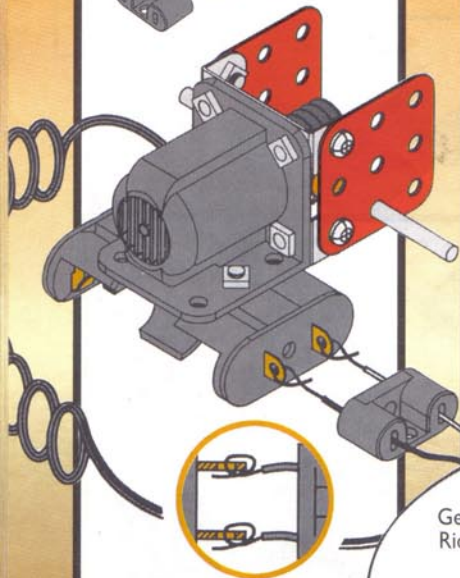
5 + **6** +



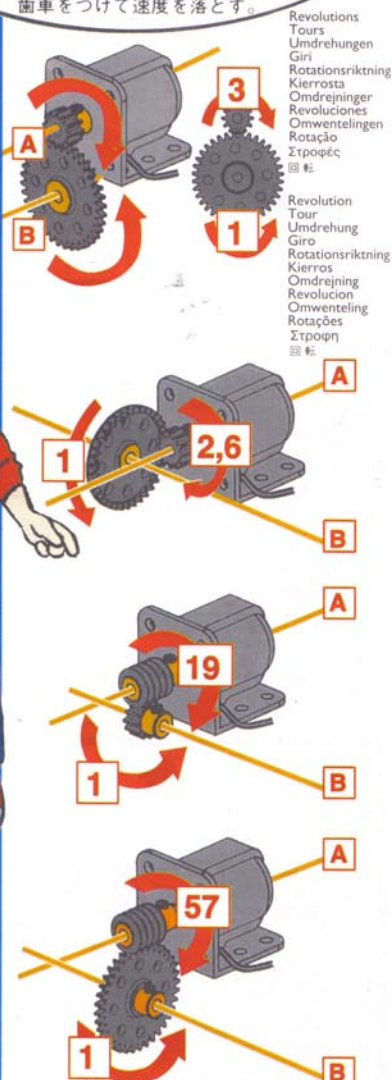
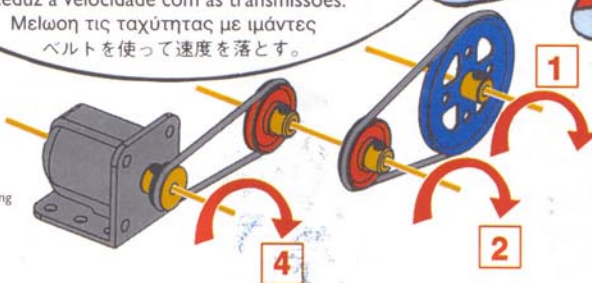
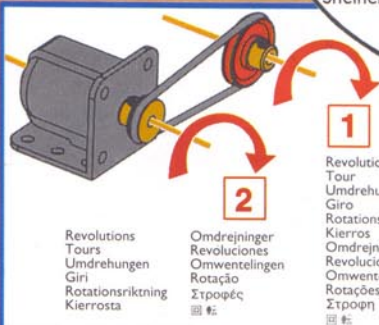
Speed reduction by gears.
 Réduction de vitesse par engrenages.
 Geschwindigkeitsverminderung durch Gangeinstellung.
 Riduzione di velocità con gli ingrangi.
 Sänk motorsn hastighet med kuggdrev.
 Nopeudensääto hammaspyörien avulla.
 Fartnedsættelse ved hjælp af tandhjulene.
 Reduce la velocidad con los engranajes.
 Snelheidsvermindering door middel van tanwielen.
 Reduz a velocidade com as engrenagens.
 Μελωση της ταχύτητας με γρανάζια
 歯車をつけて速度を落とす。

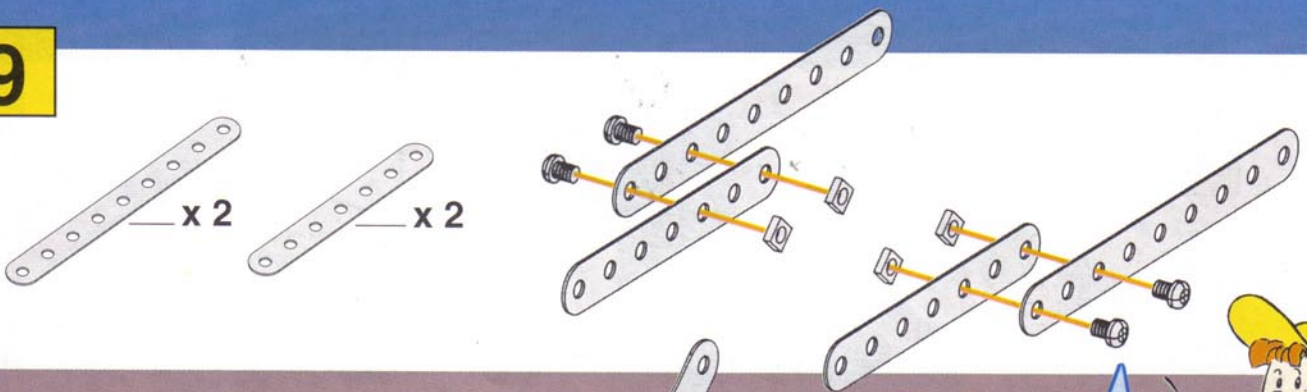
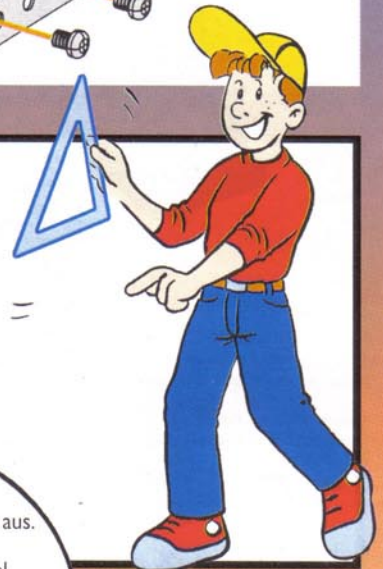
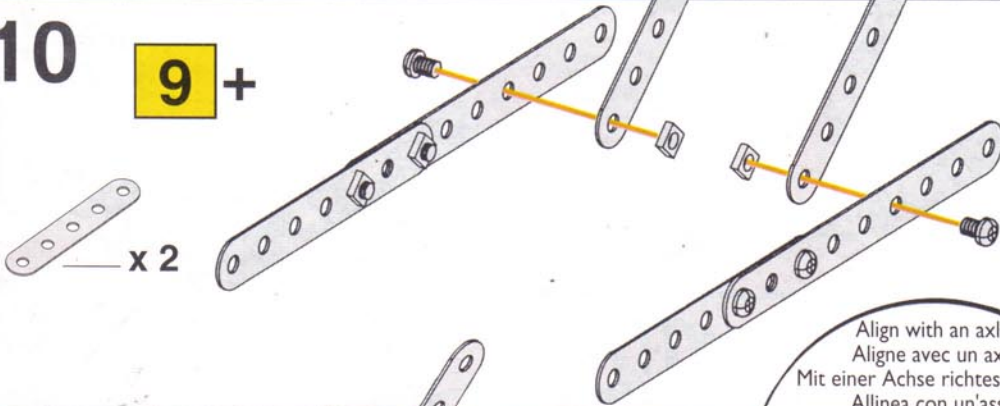
8 **7** +

 x 1



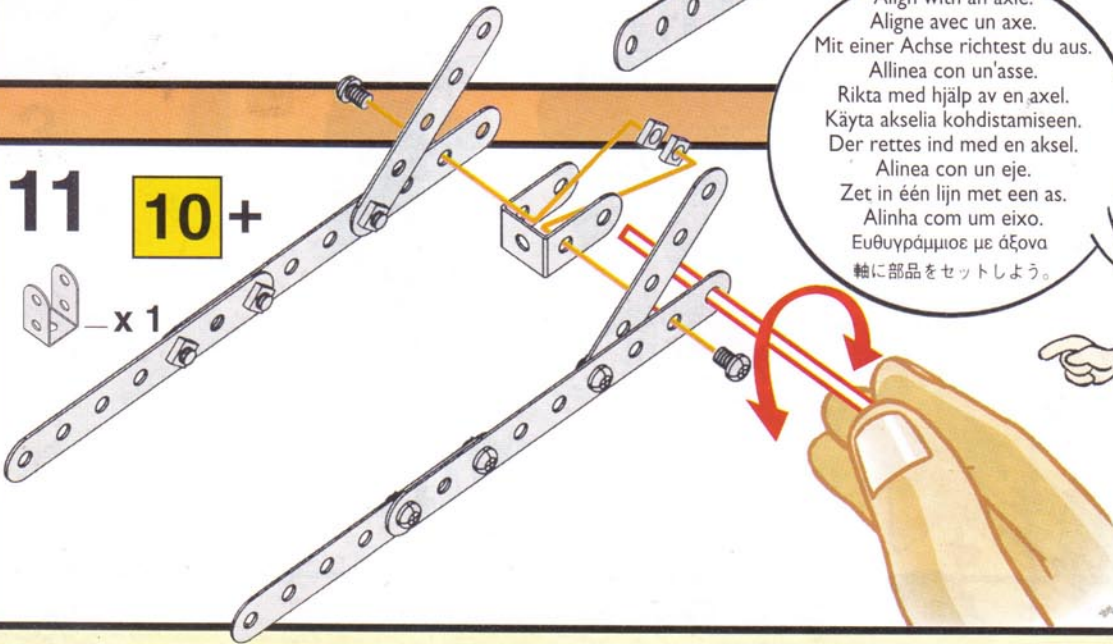
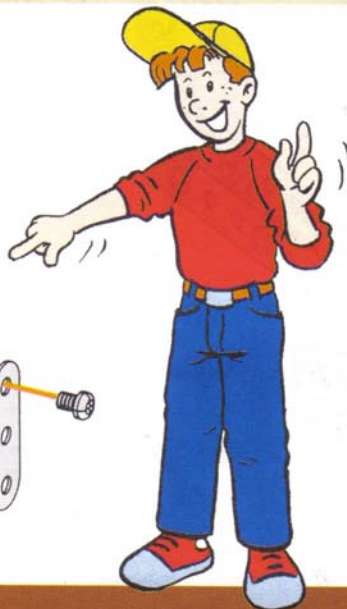
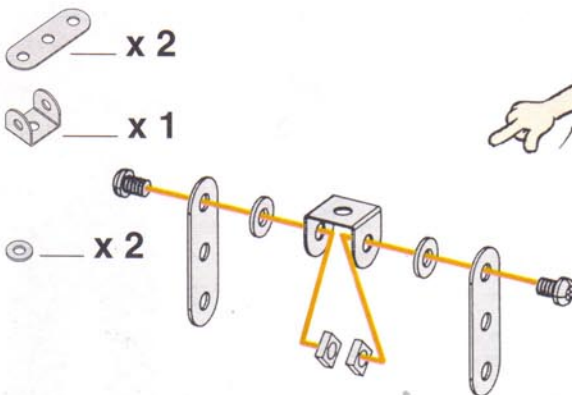
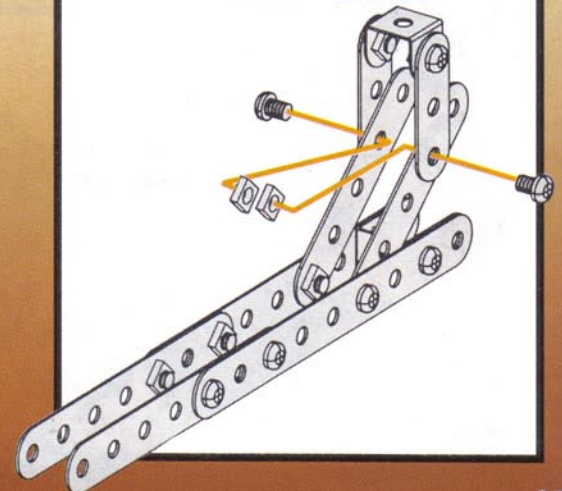
Speed reduction by transmission belts.
 Réduction de vitesse par courroies.
 Geschwindigkeitsverminderung durch keilriehen.
 Riduzione di velocità con la cinghia di trasmissione.
 Sänk motorsn hastighet med drivrem.
 Nopeudensääto vaihteistohihnojen avulla.
 Fartnedsættelse ved hjælp af remmene.
 Reduce la velocidad con las transmisiones.
 Snelheidsvermindering door middel van overbrengingsriemen.
 Reduz a velocidade com as transmissões.
 Μελωση της ταχύτητας με μιάντες
 ベルトを使って速度を落とす。



9**10****9+**


Align with an axle.
 Aline avec un axe.
 Mit einer Achse richtest du aus.
 Allinea con un'asse.
 Rikta med hjälp av en axel.
 Käytä akselia kohdistamiseen.
 Der rettes ind med en aksel.

Alinea con un eje.
 Zet in één lijn met een as.
 Alinha com um eixo.
 Ευθυγράμμιση με άξονα
 軸に部品をセットしよう。

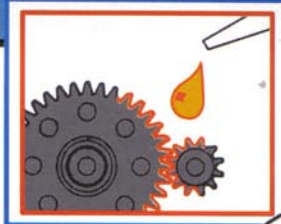
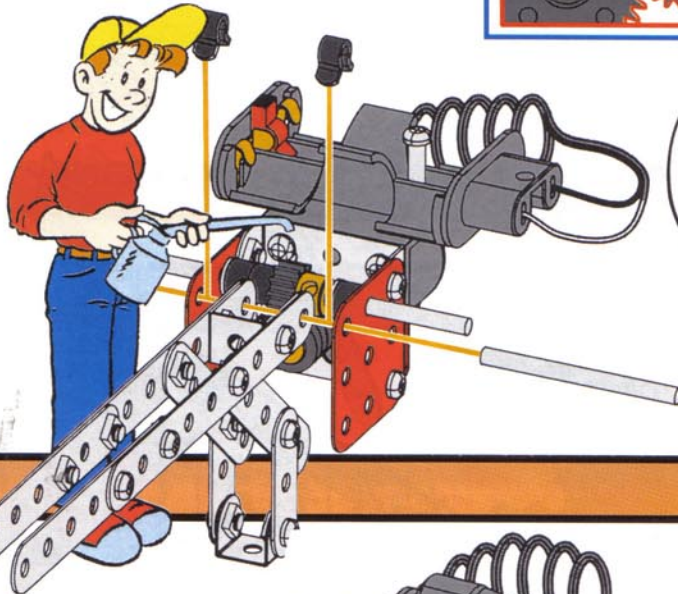
11**10+****12****13****11+12**

14

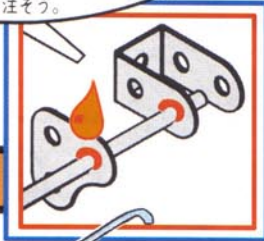
8 + **13** +

 $\frac{5\text{ cm}}{2}$ X 1

 X 2



Oil the axles or bearing supports.
 Huile les supports d'axes ou paliers.
 Öle die Achsen oder Lager.
 Lubrifica le assi o sostegni di supporto.
 En droppe olja i lagren.
 Öljyä akselit tai laakerit.
 Aksel- eller lejestøtter smøres.
 Pon aceite en los soportes para ejes o barras.
 Olie de assen of de lagersteunstukken.
 Lubrifica os suportes para eixos ou barras.
 Λάδωσε τους άξονες και τις βάσεις στήριξης
 軸受けや軸受け台にも
 油を注そう。

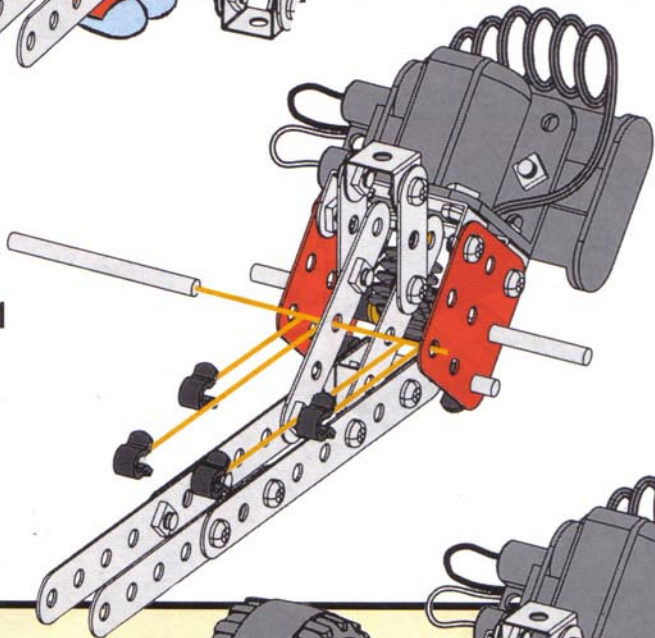


15

14 +

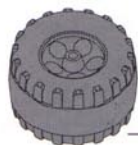
 $\frac{5\text{ cm}}{2}$ X 1

 X 4



16

15 +

 X 2

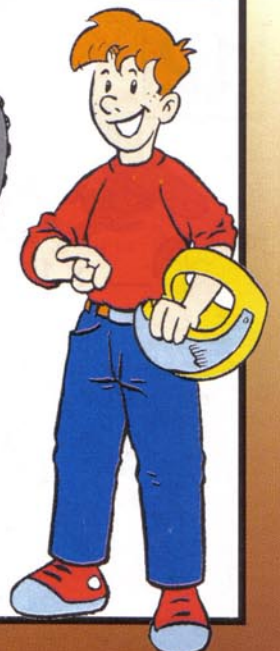
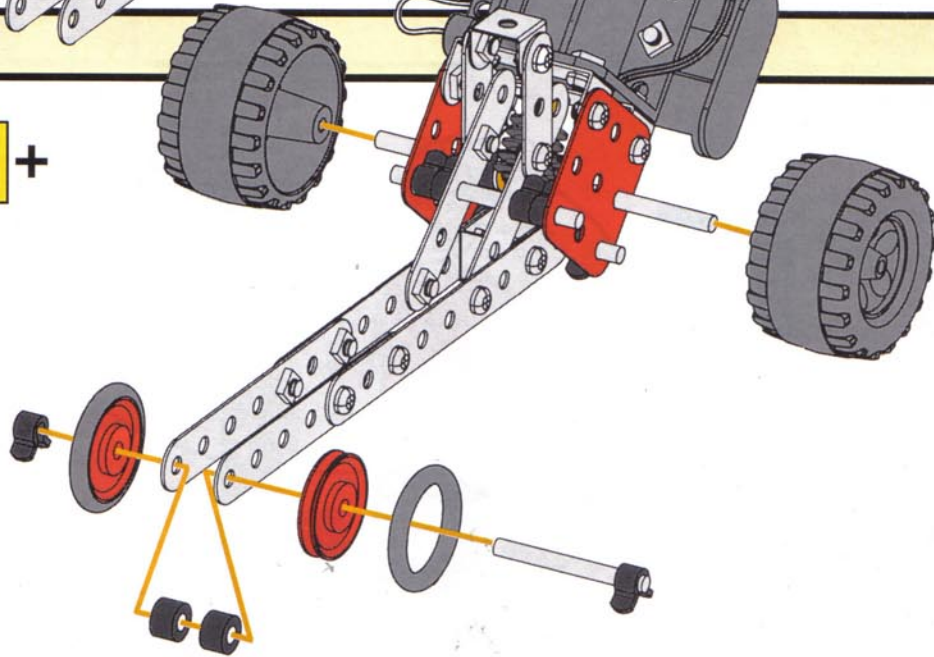
 X 2

 X 2

 $\frac{4\text{ cm}}{1\frac{1}{2}}$ X 1

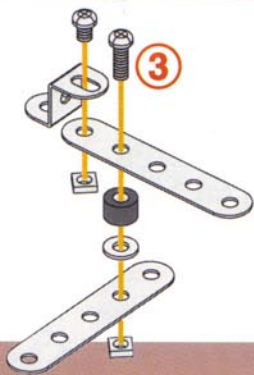
 X 2

 X 2



5

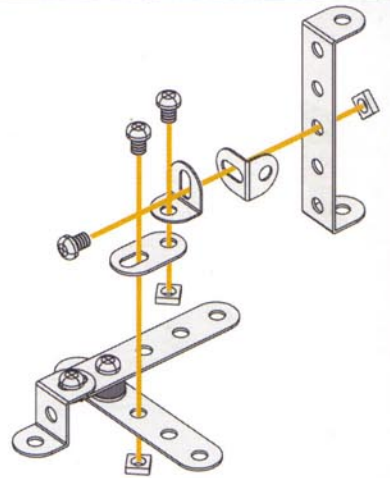
- x 2
- x 1
- x 1
- x 1



6

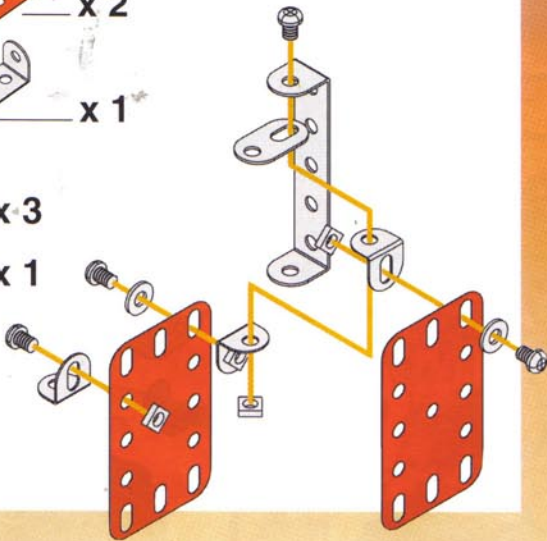
5 +

- x 1
- x 2
- x 1



7

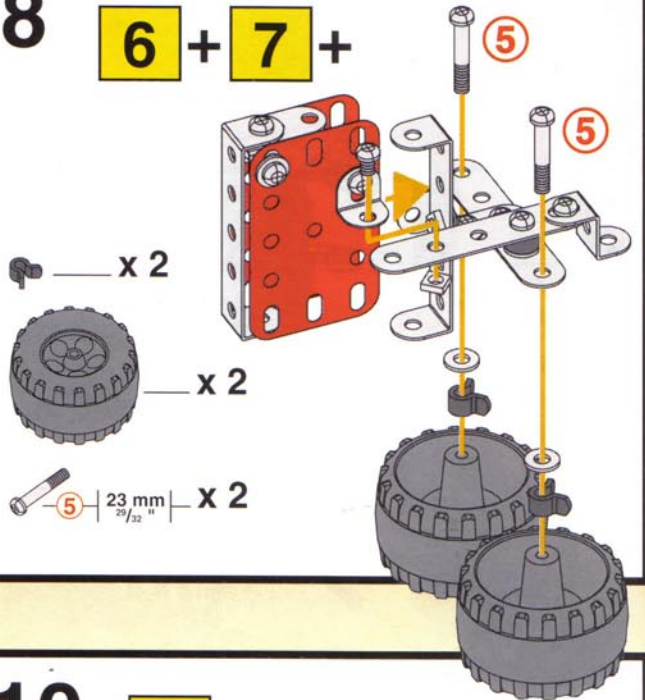
- x 2
- x 1
- x 3
- x 1



8

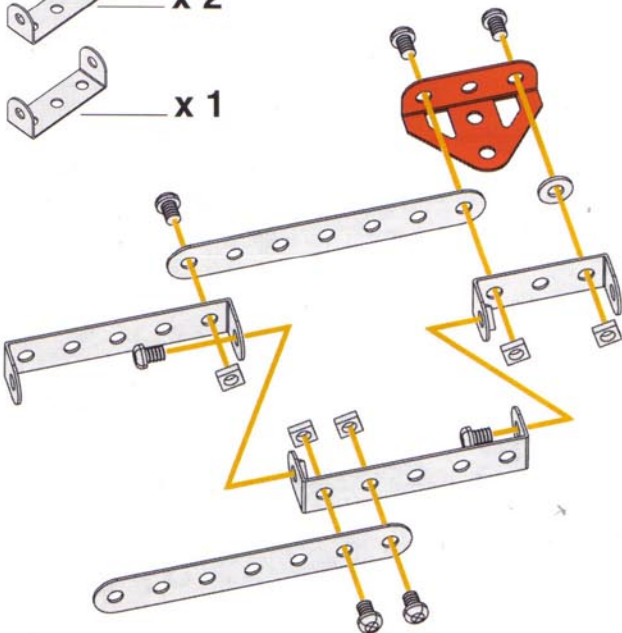
6 + 7 +

- x 2
- x 2
- x 2



9

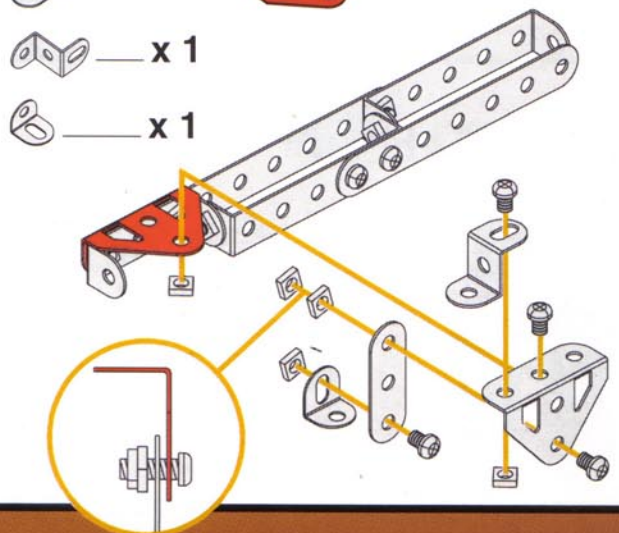
- x 2
- x 2
- x 1
- x 1



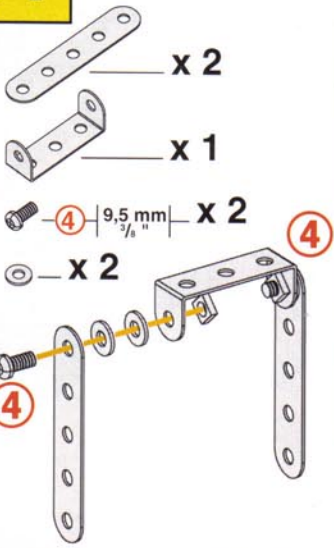
10

9 +

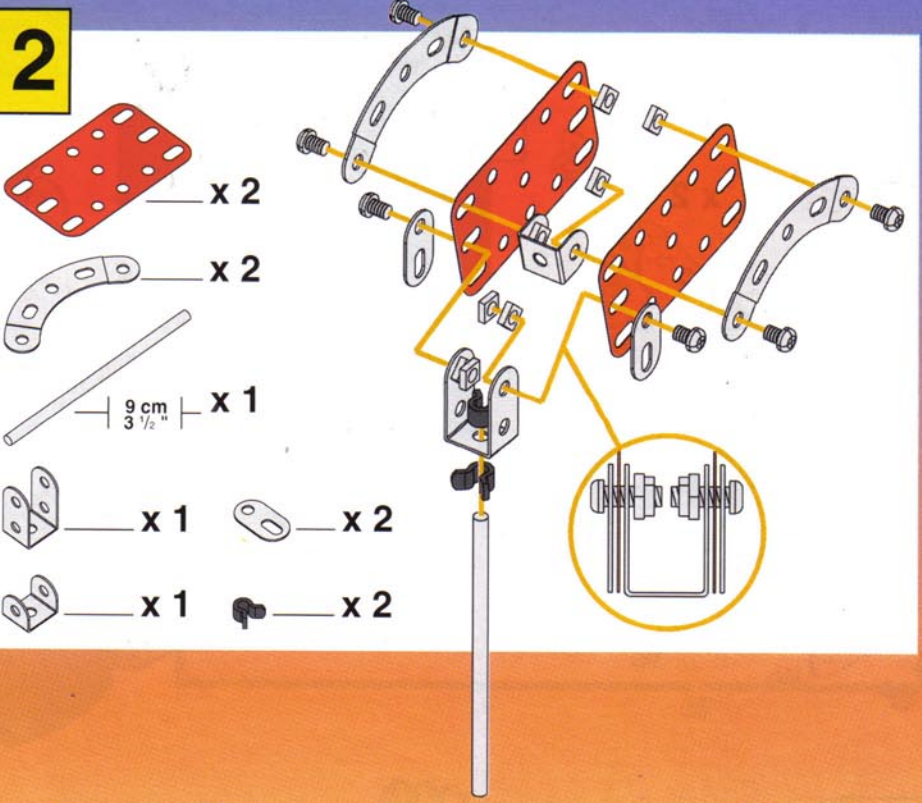
- x 1
- x 1
- x 1



11

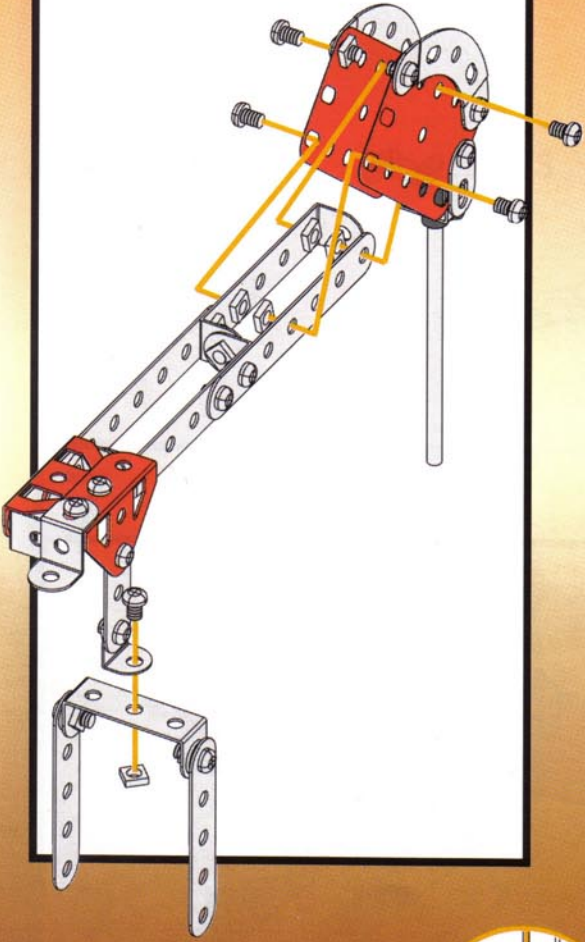


12



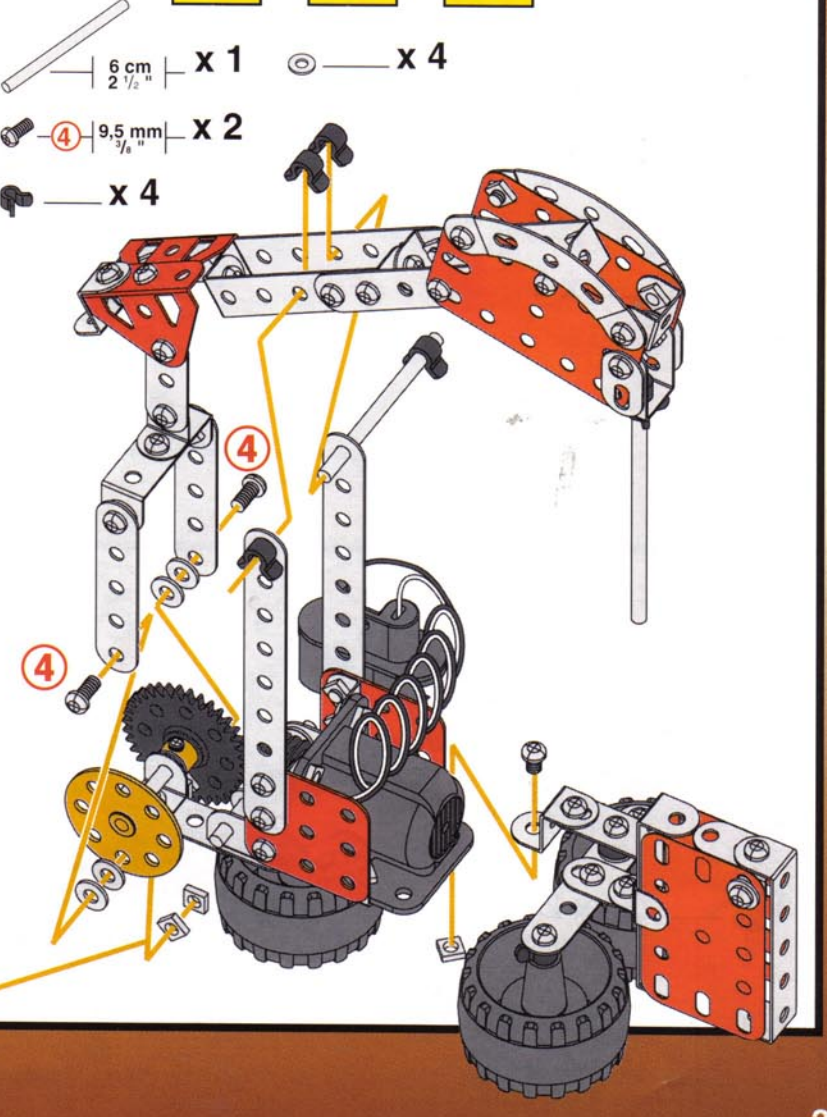
13

10 + 11 + 12

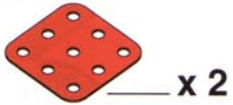


14

4 + 8 + 13 +



1



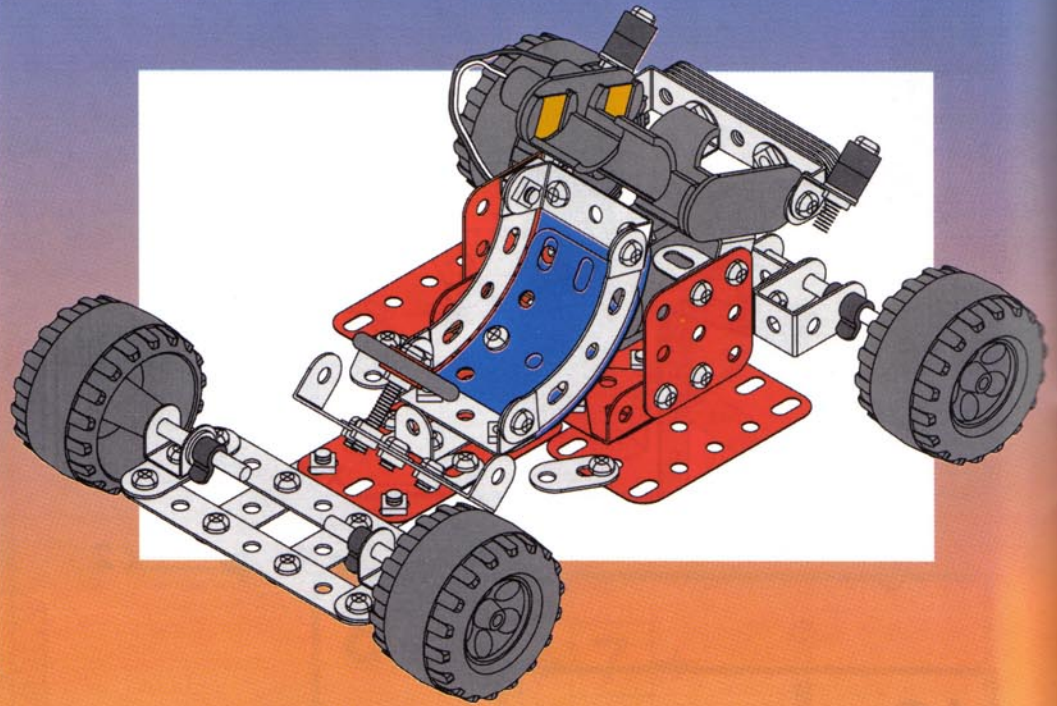
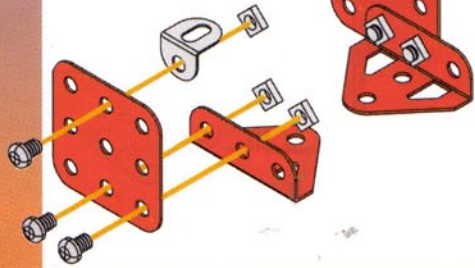
x 2



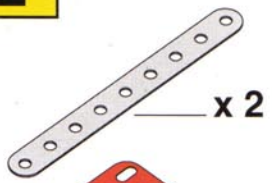
x 2



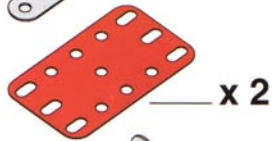
x 2



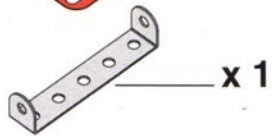
2



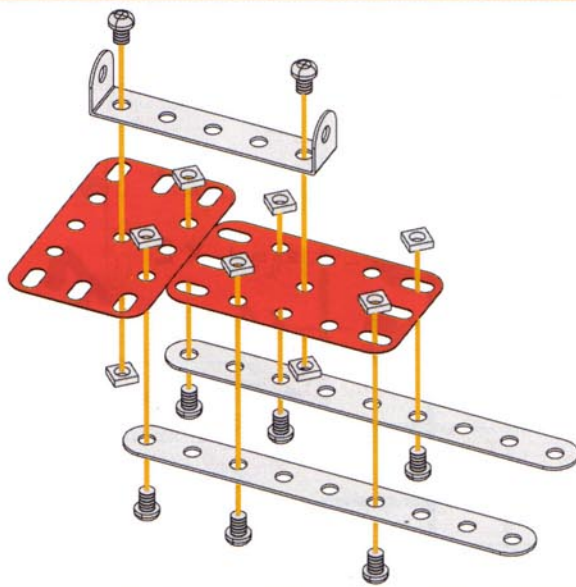
x 2



x 2

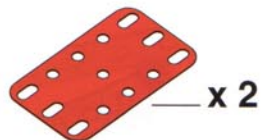


x 1



3

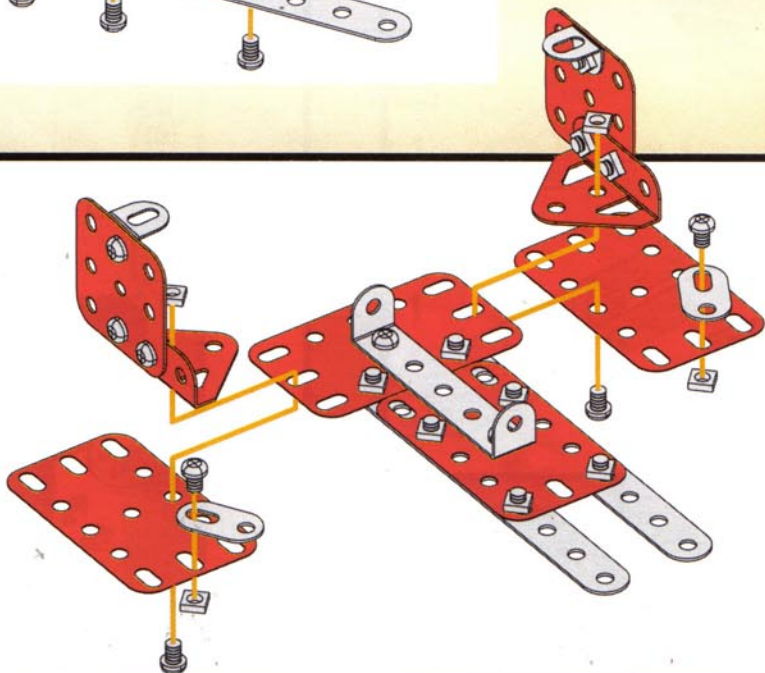
1 + 2 +

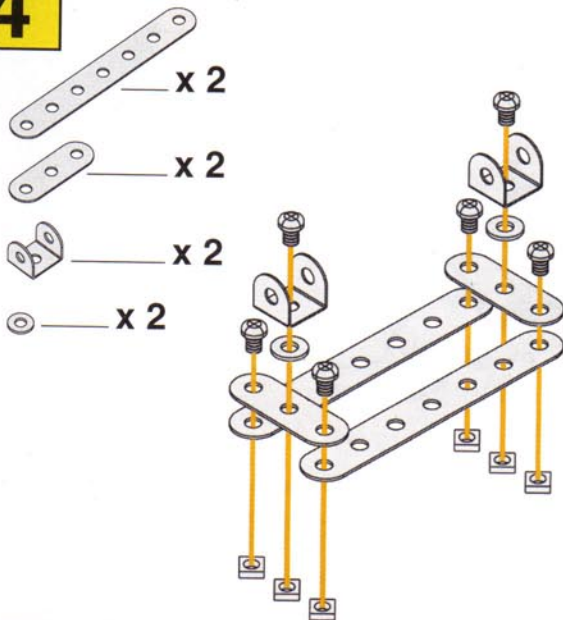
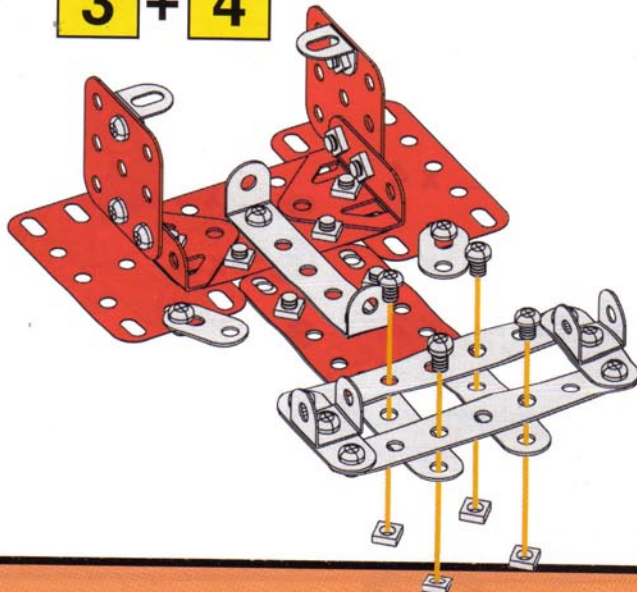
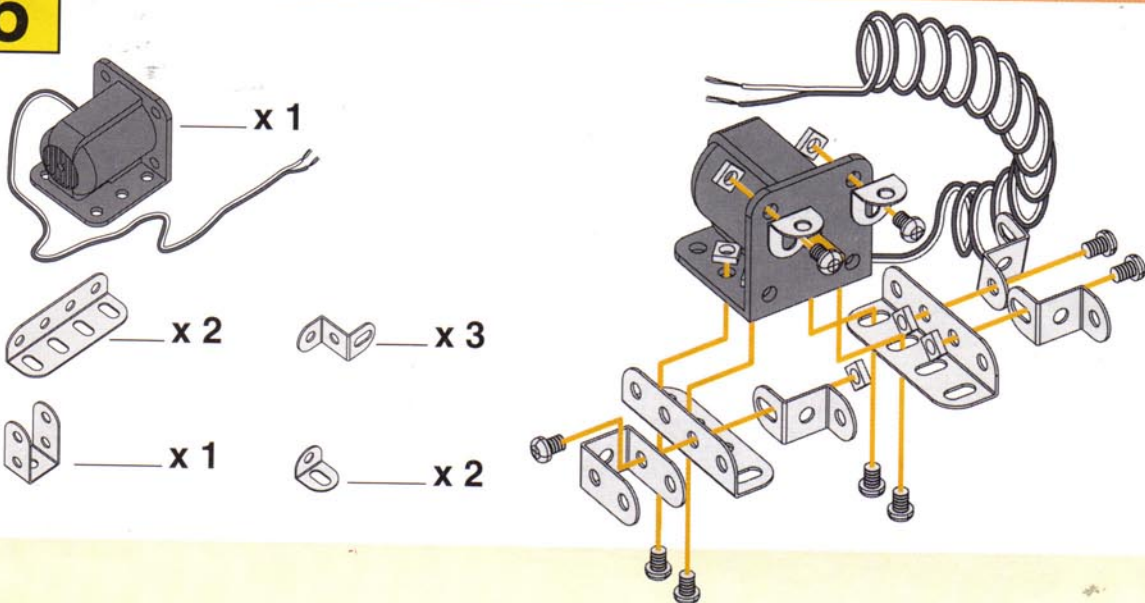
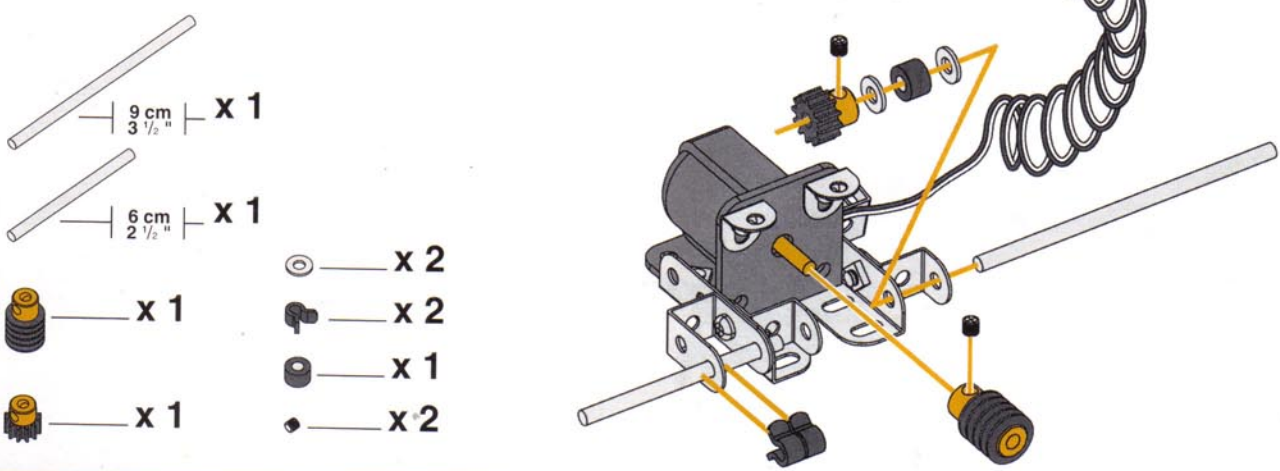


x 2

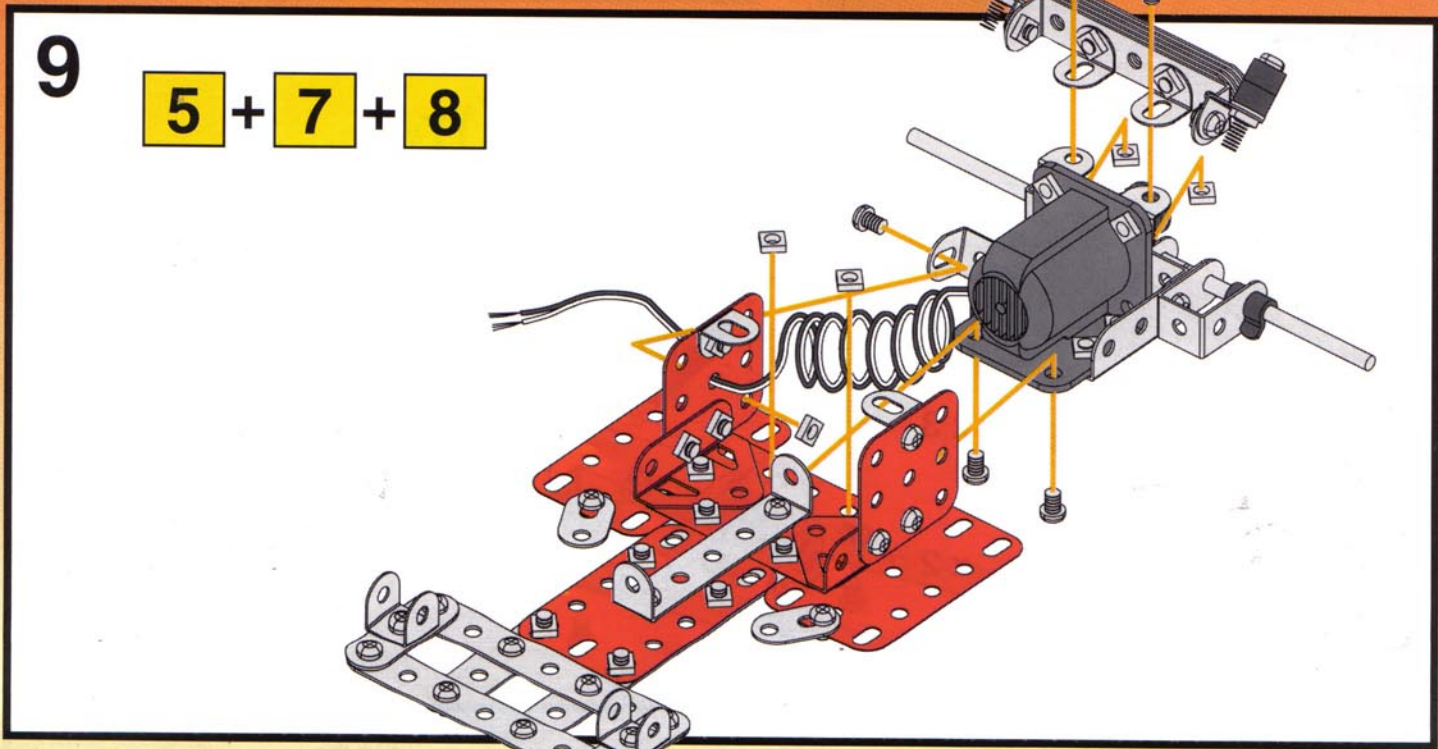
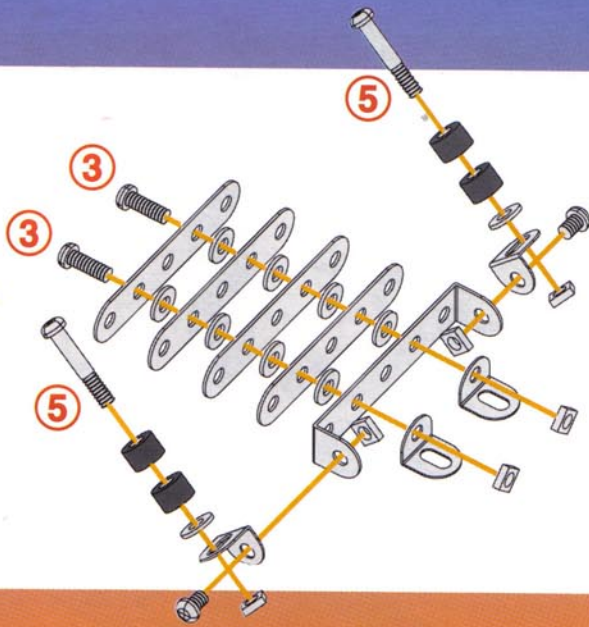
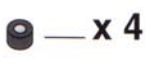
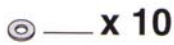
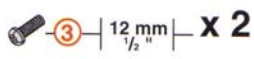
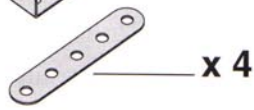
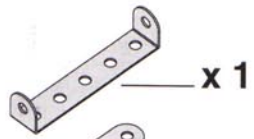


x 2

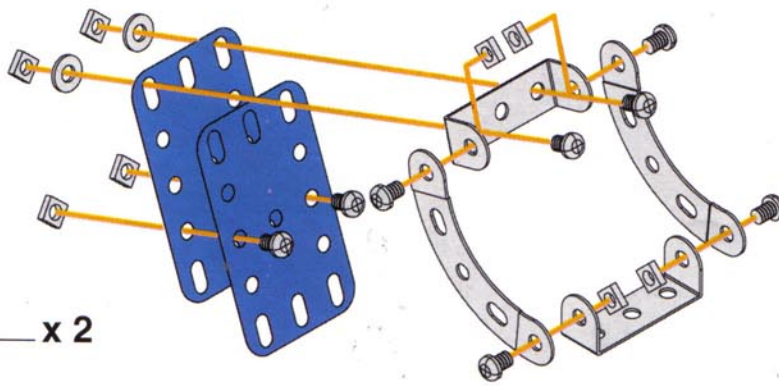
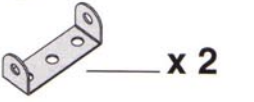
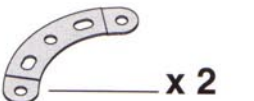
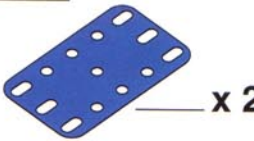


4**5****3 + 4****6****7****6 +**

8

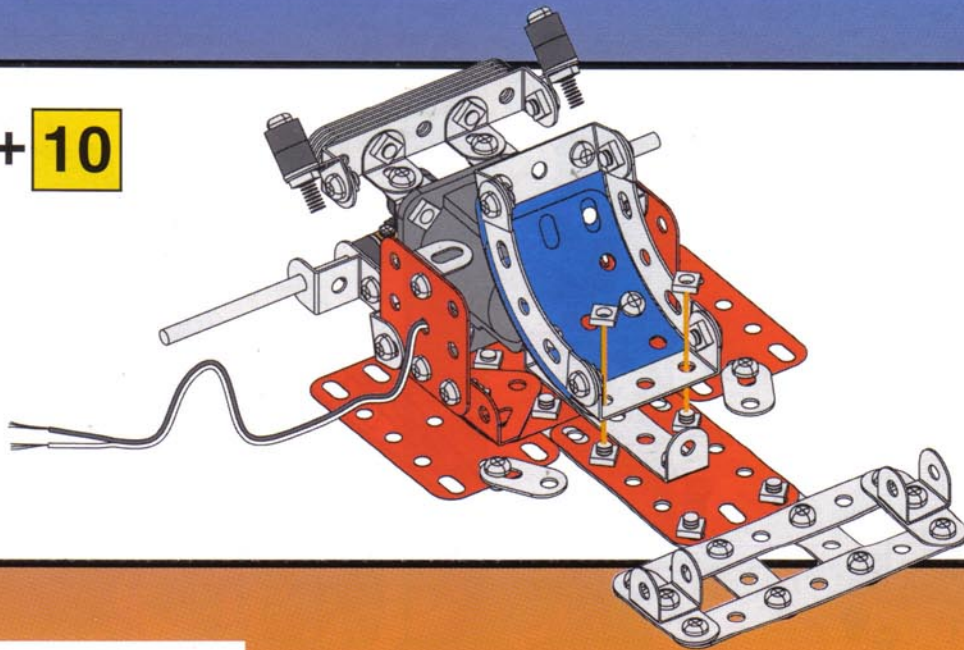


10

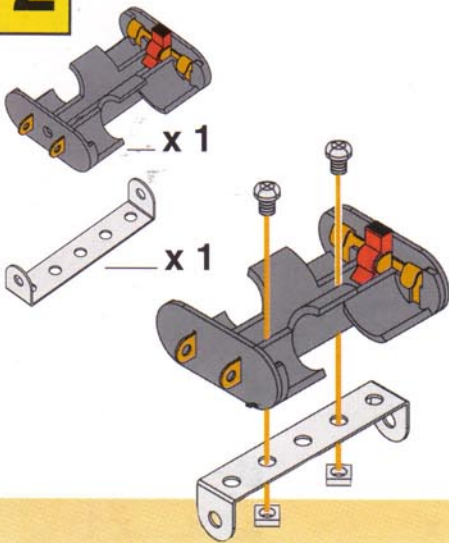


11

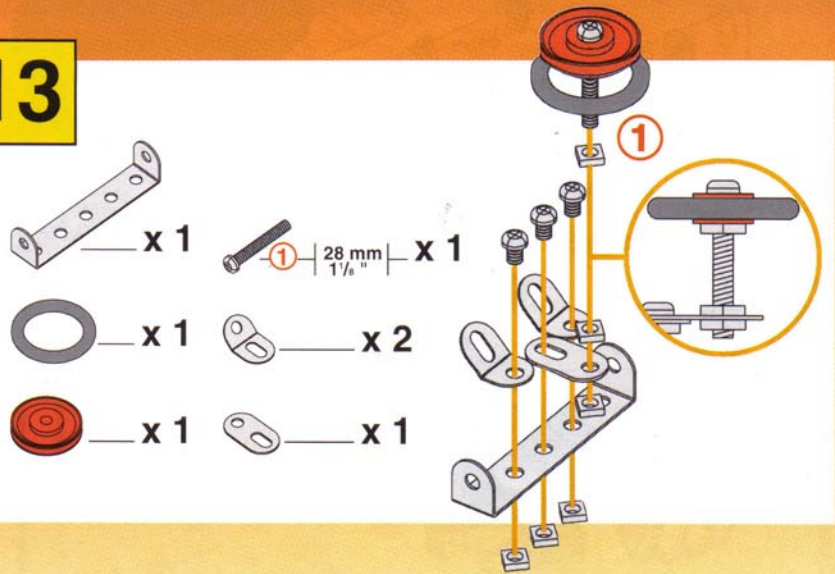
9 + 10



12

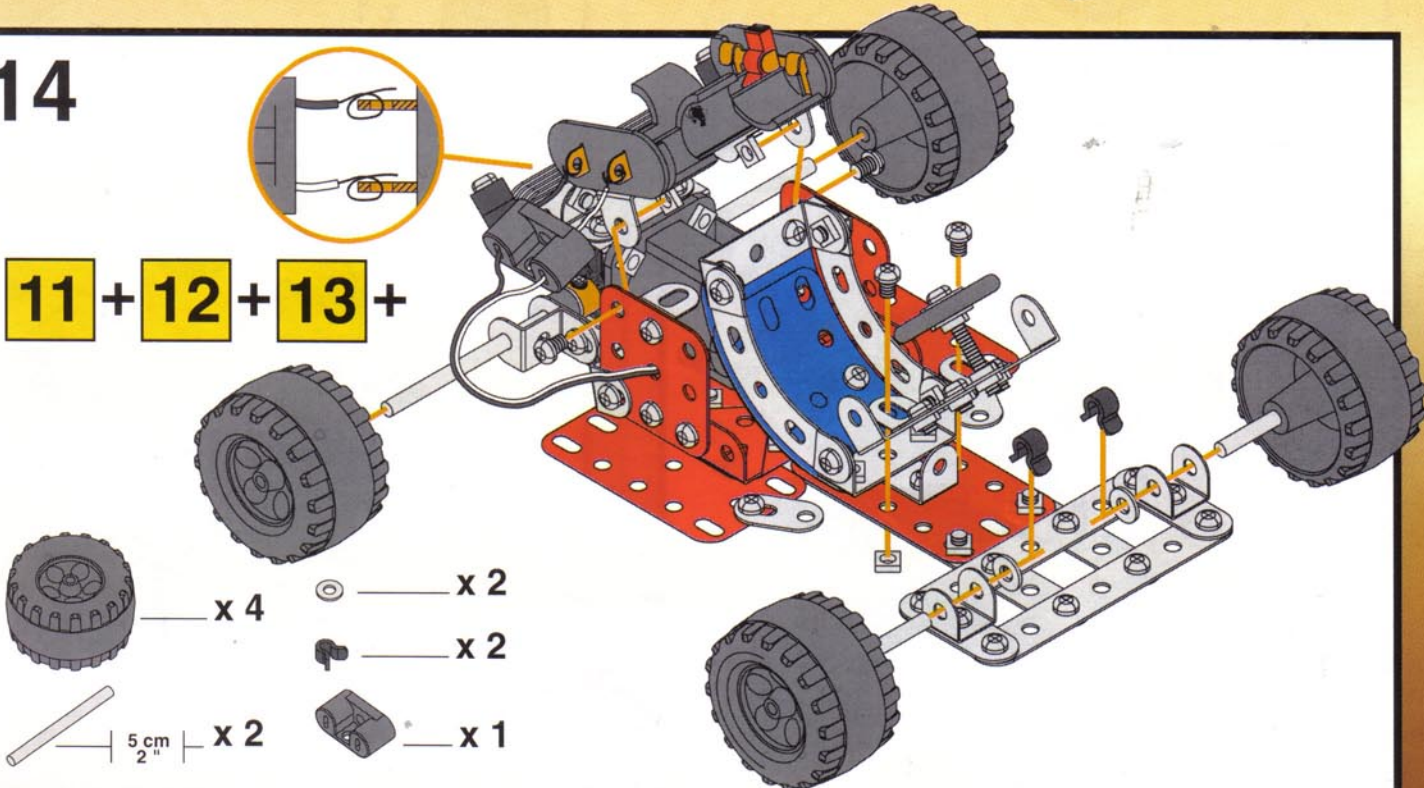


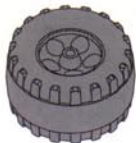




13

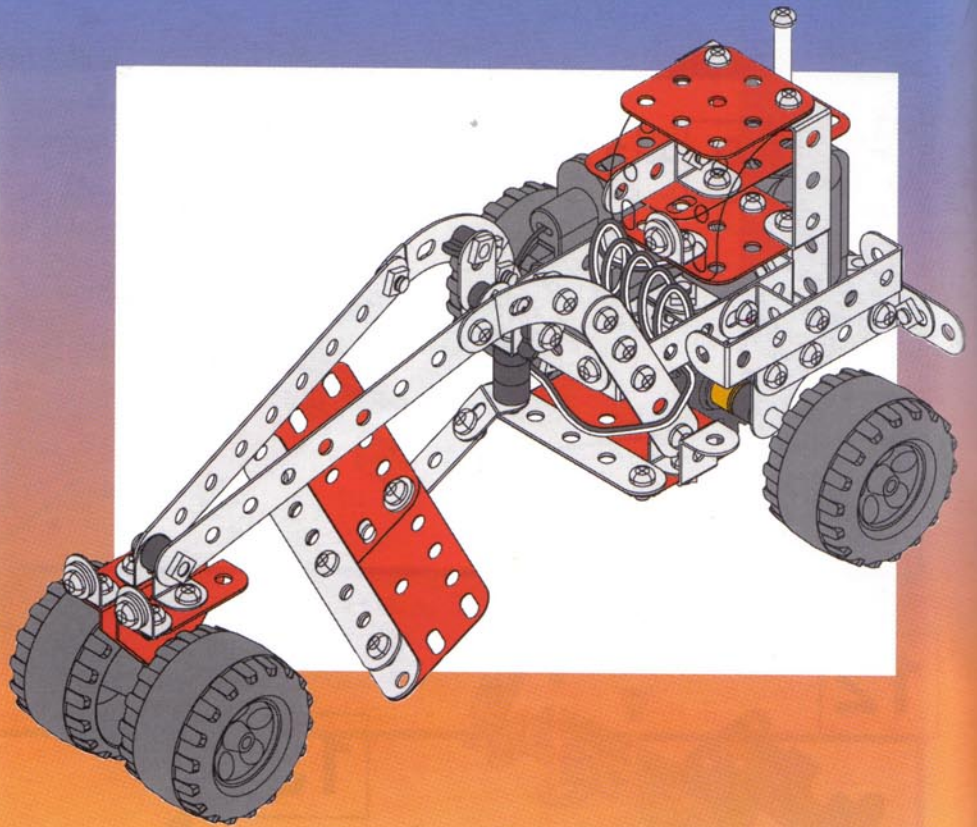
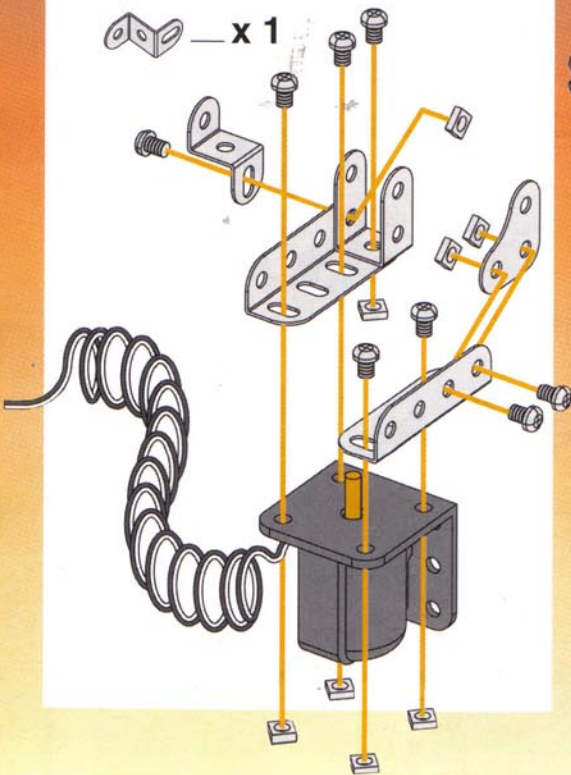
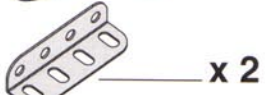
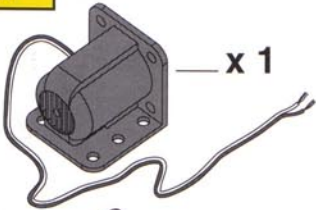
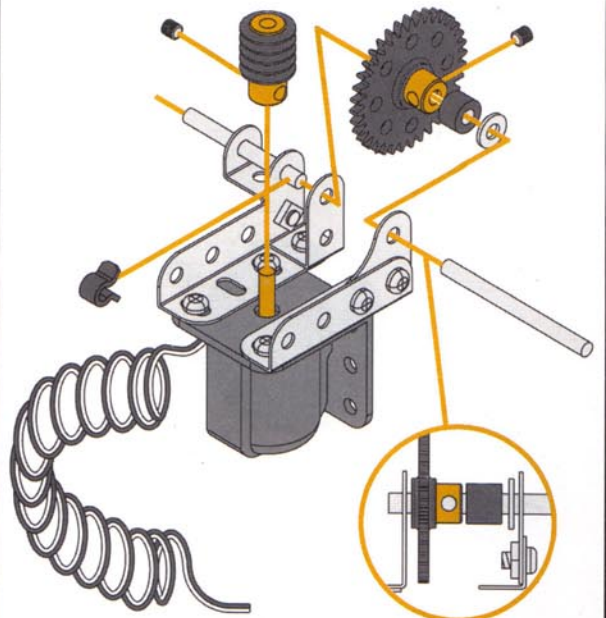
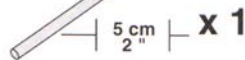
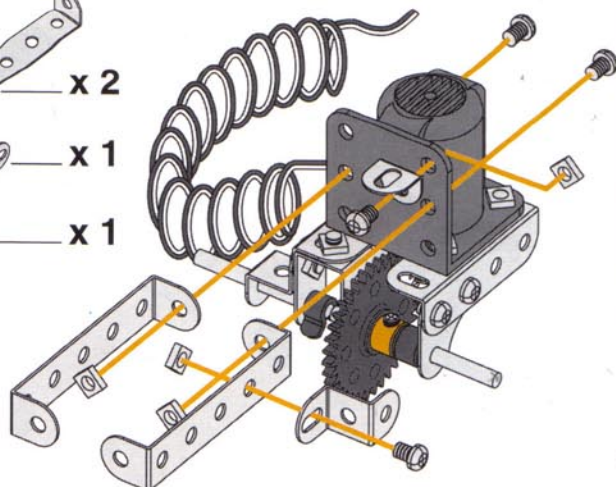
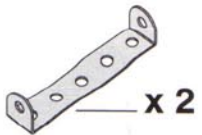


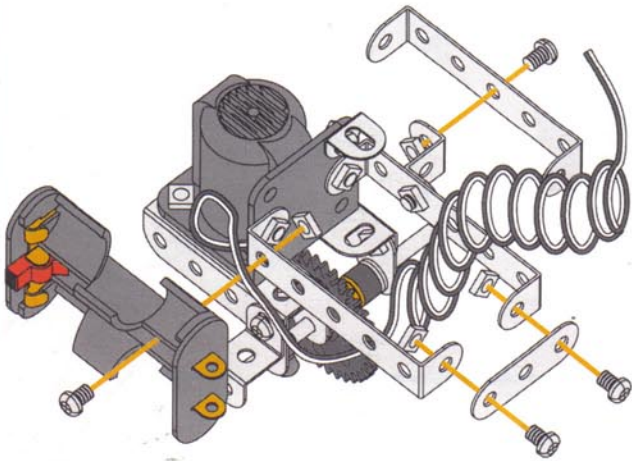
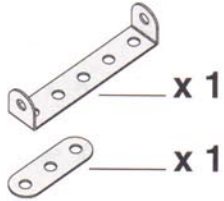
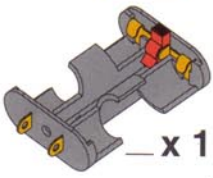
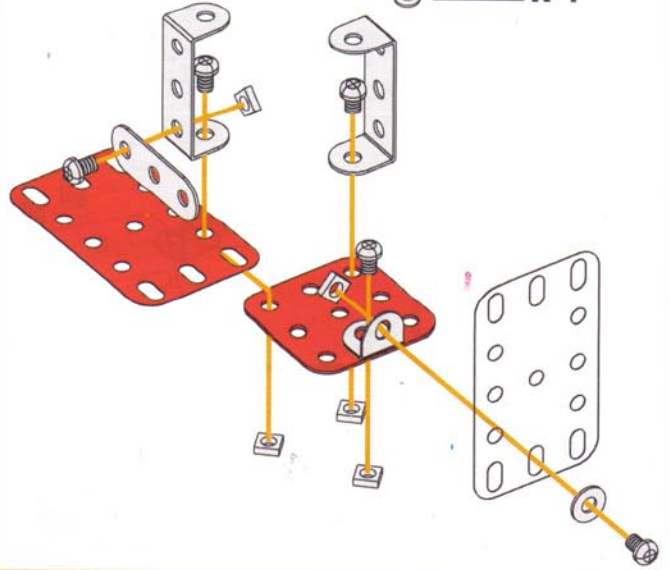
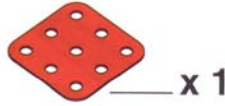
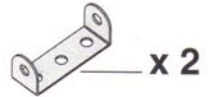
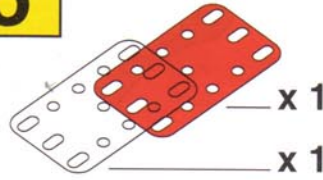
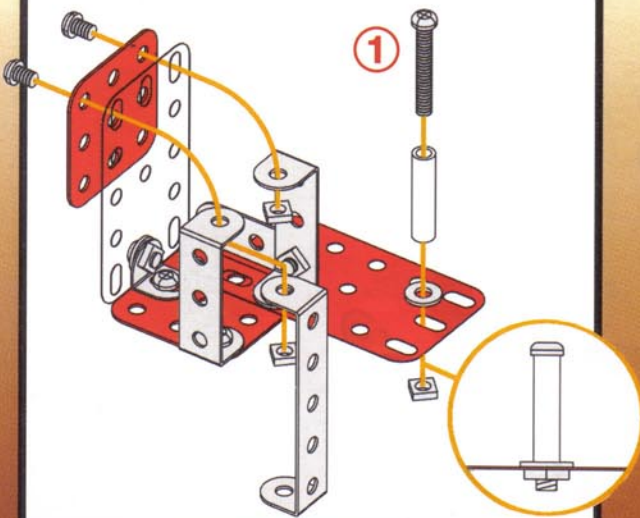
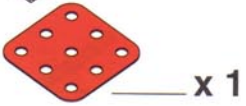
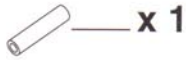
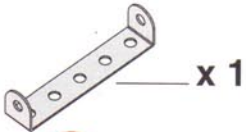
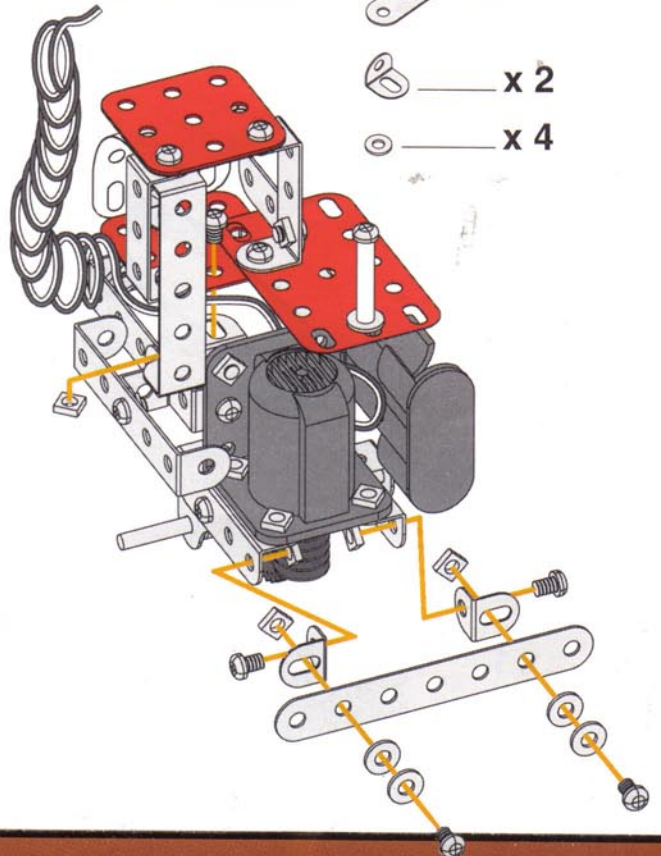
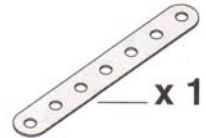
14

11 + 12 + 13 +

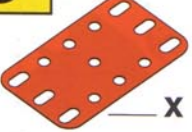






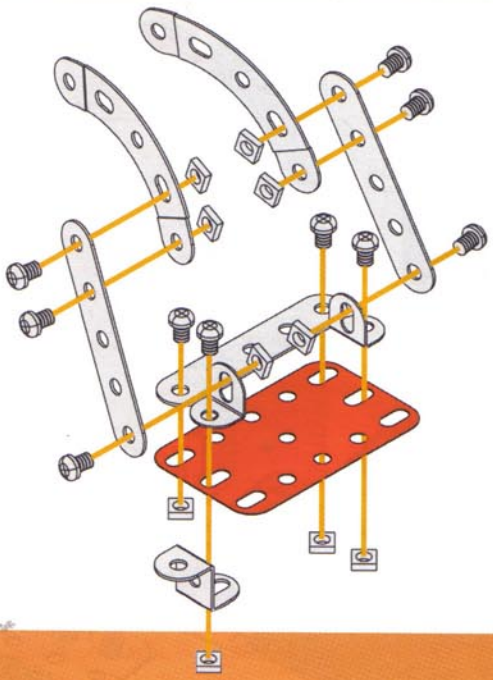
-  x 4
-  x 2
-  x 2
-  x 1
-  x 2

1**2****1+****3****2+**





4**3** +**5****6****5** +**7****4** + **6** +

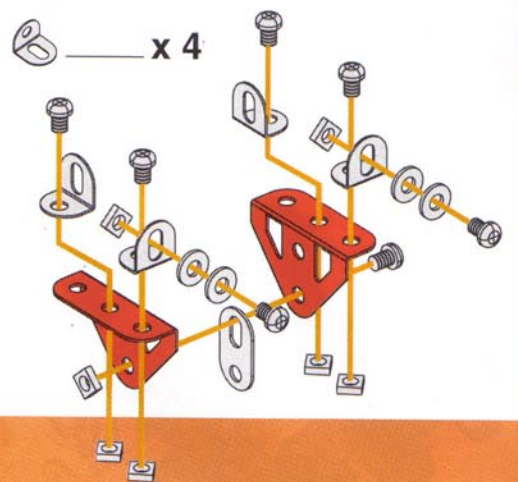
8

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



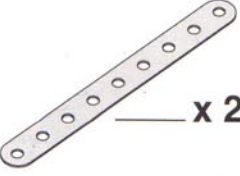


9

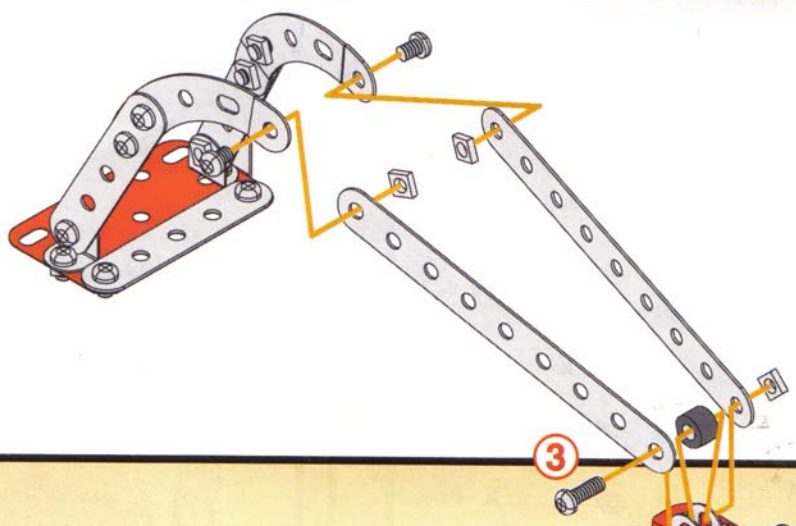
-  x 2
-  x 4
-  x 1
-  x 4



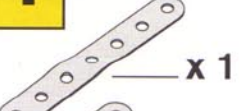

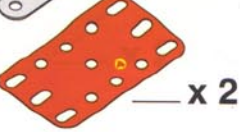





10

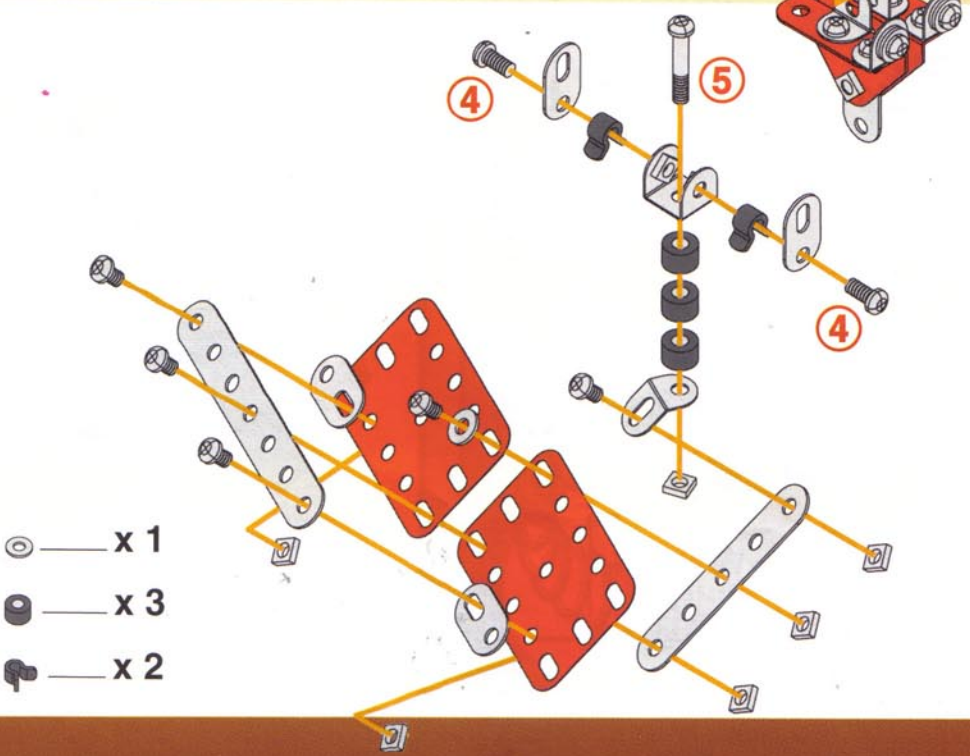
8 + 9 +

-  x 2
-  | 12 mm | $\frac{1}{2}$ " | x 1
-  x 1



11

-  x 1
-  x 1
-  x 2
-  | 23 mm | $\frac{7}{32}$ " | x 1
-  | 9,5 mm | $\frac{3}{8}$ " | x 2
-  x 1
-  x 1
-  x 4

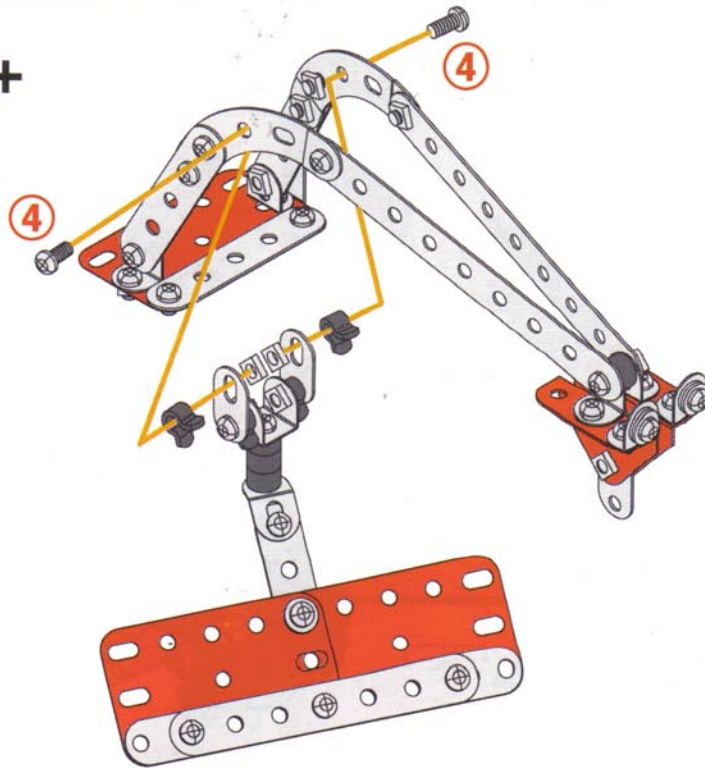


12

10 + **11** +

④ | 9,5 mm | x 2

— x 2



13

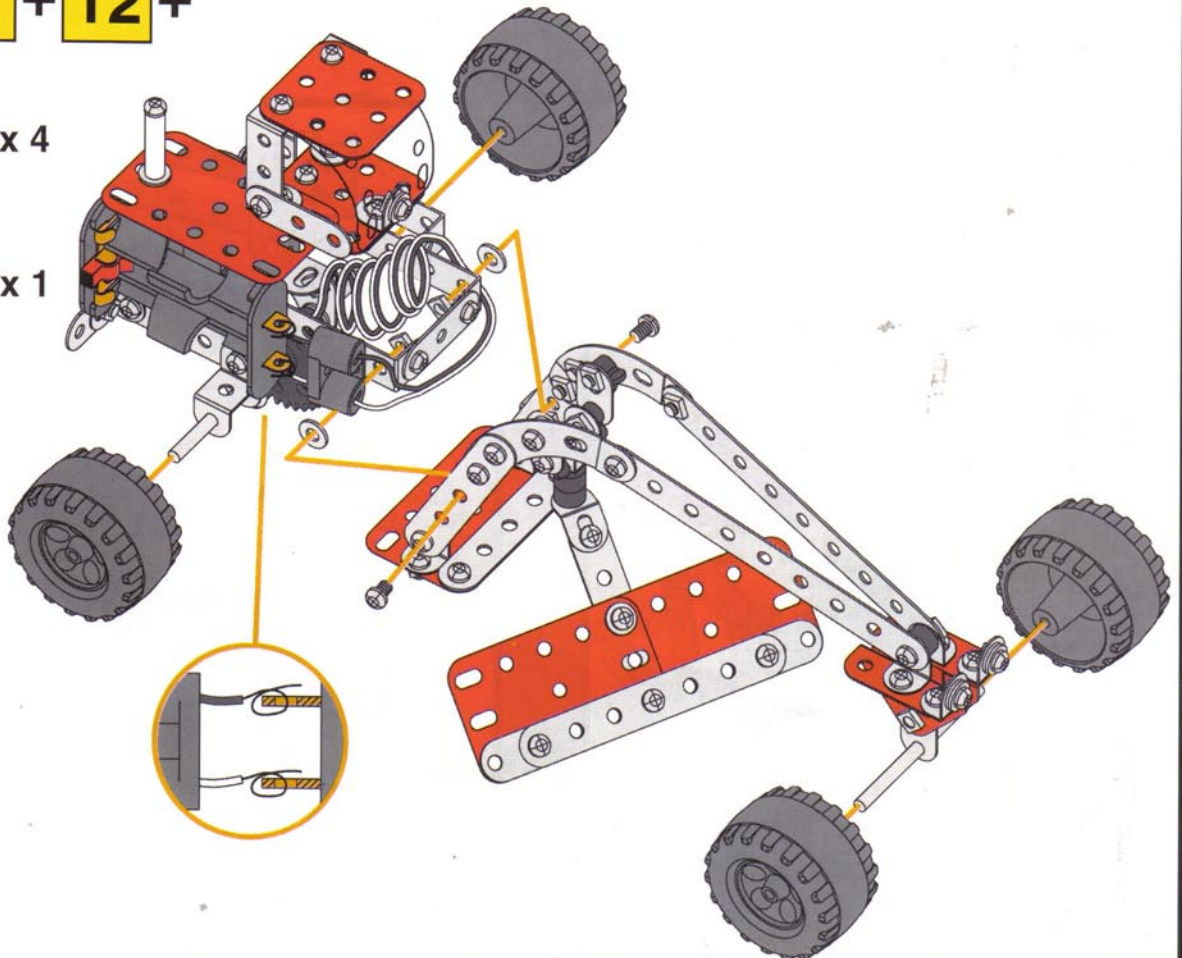
7 + **12** +

x 4

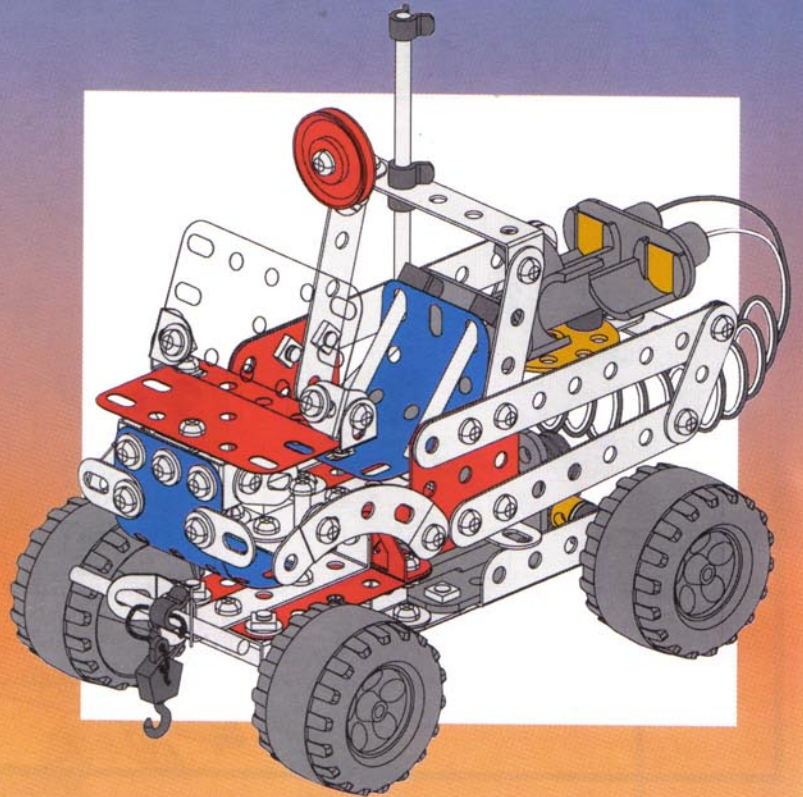
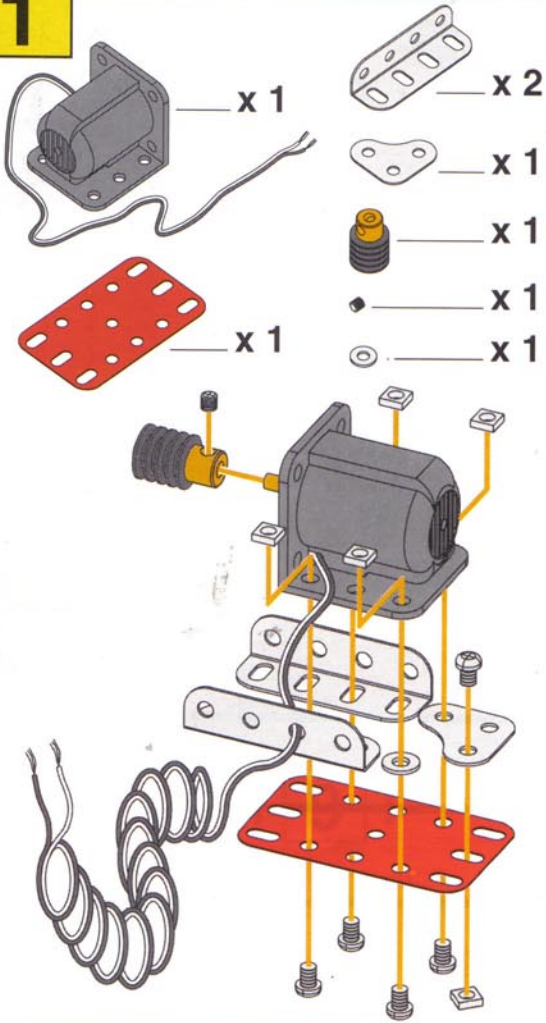
5 cm
2" | x 1

x 1

x 2

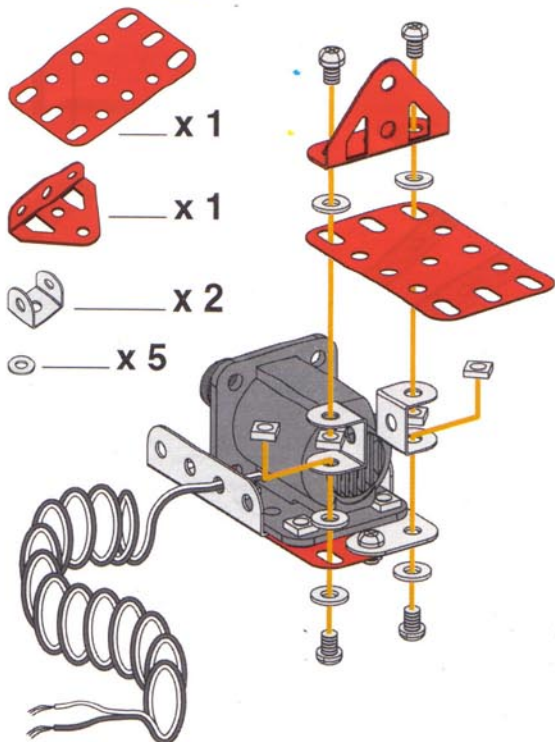


1



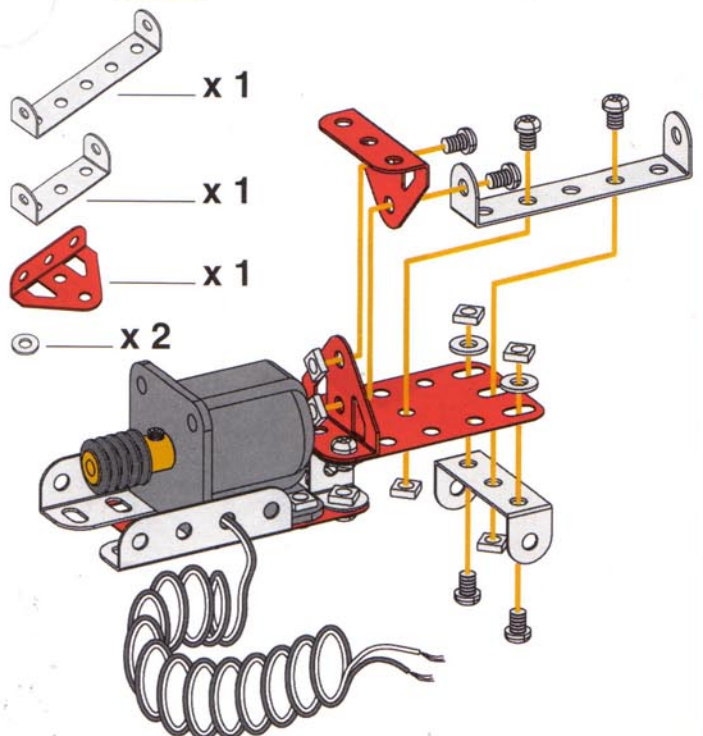
2

1+



3

2+



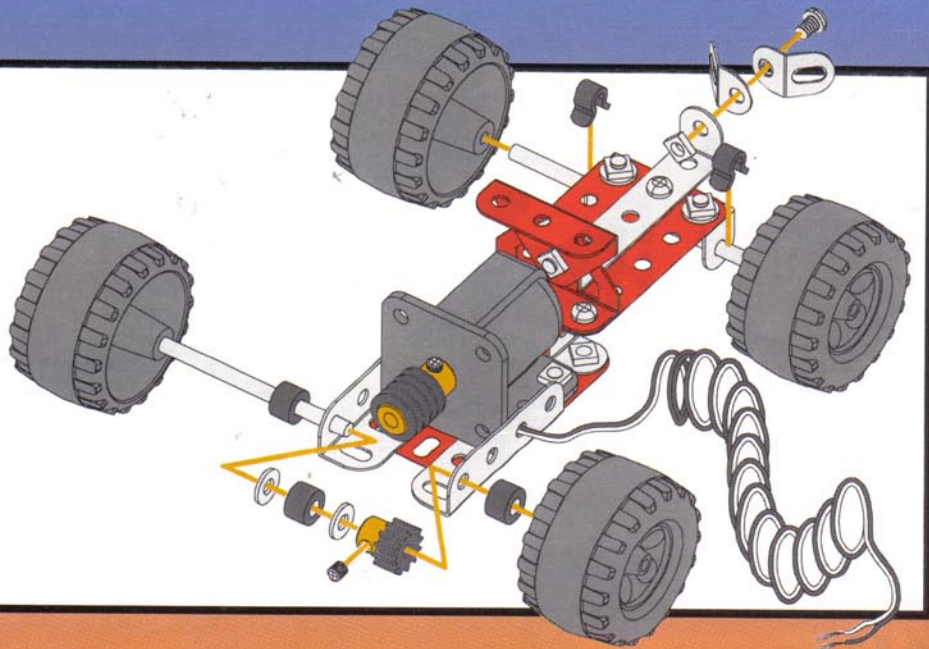
4

3+

9 cm
3 1/2" x 2

x 4

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



5

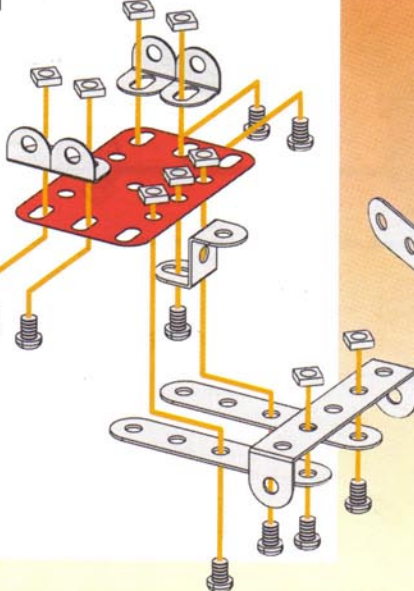
x 1

x 2

x 1

x 1

x 4



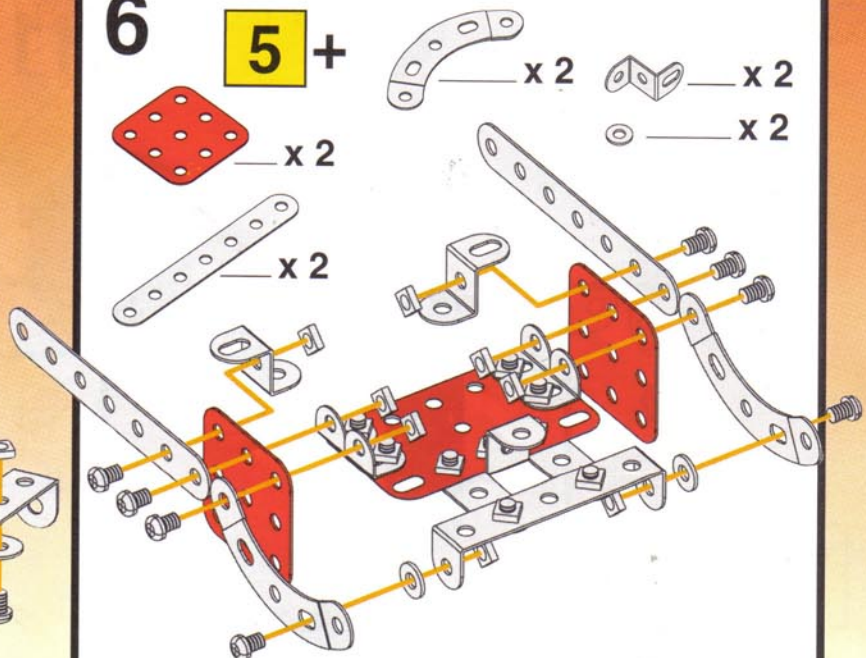
6

5+

x 2

x 2

- x 2
- x 2
- x 2



7

6+

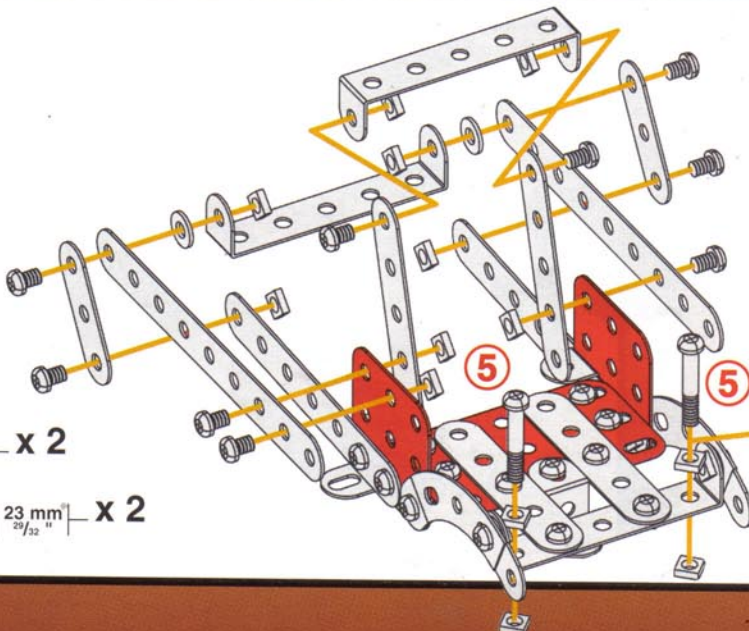
x 2

x 2

x 2

x 2

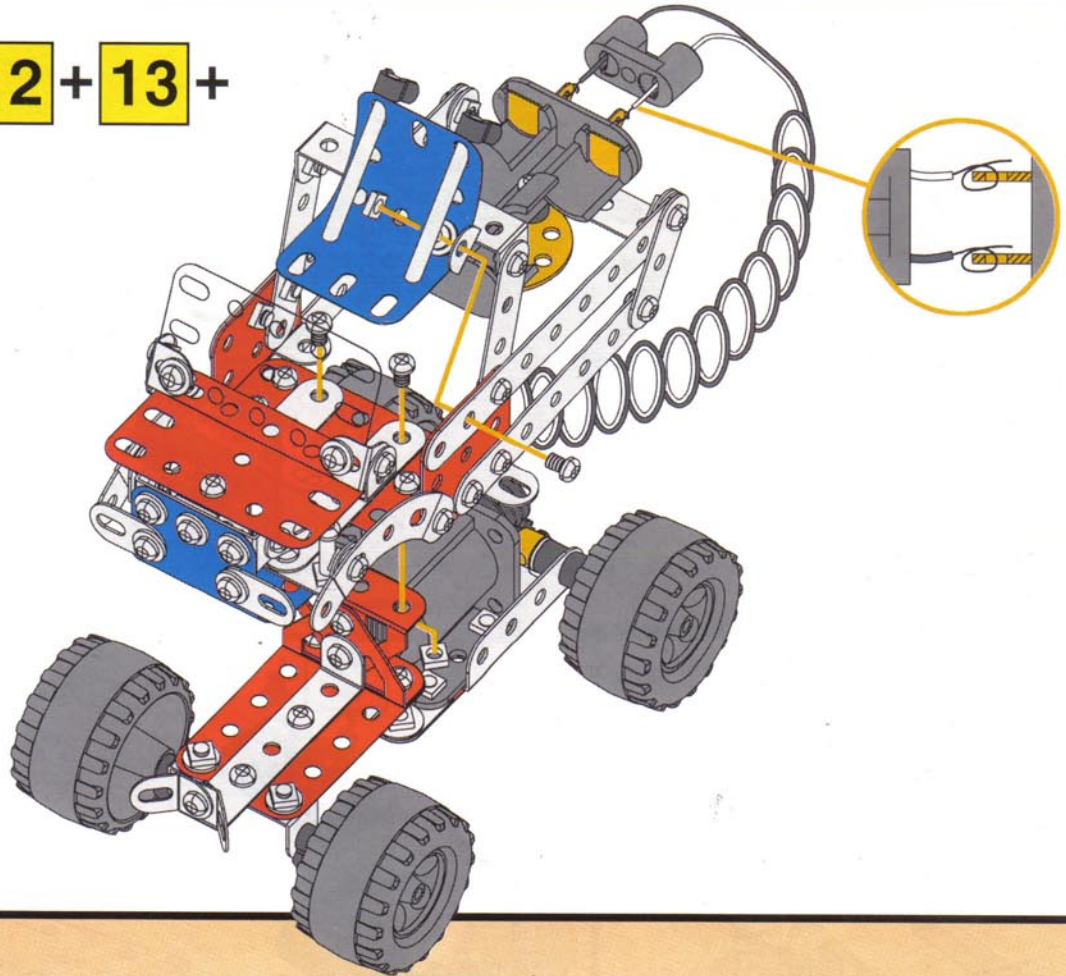
x 2
23 mm
29/32" x 2



14

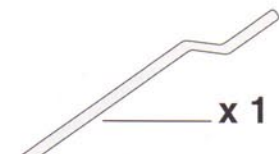
4 + **12** + **13** +

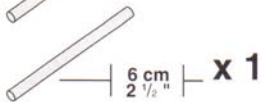
 x 1



15

14 +

 x 1

 $\frac{6 \text{ cm}}{2 \frac{1}{2} \text{ ''}}$ x 1

 x 1

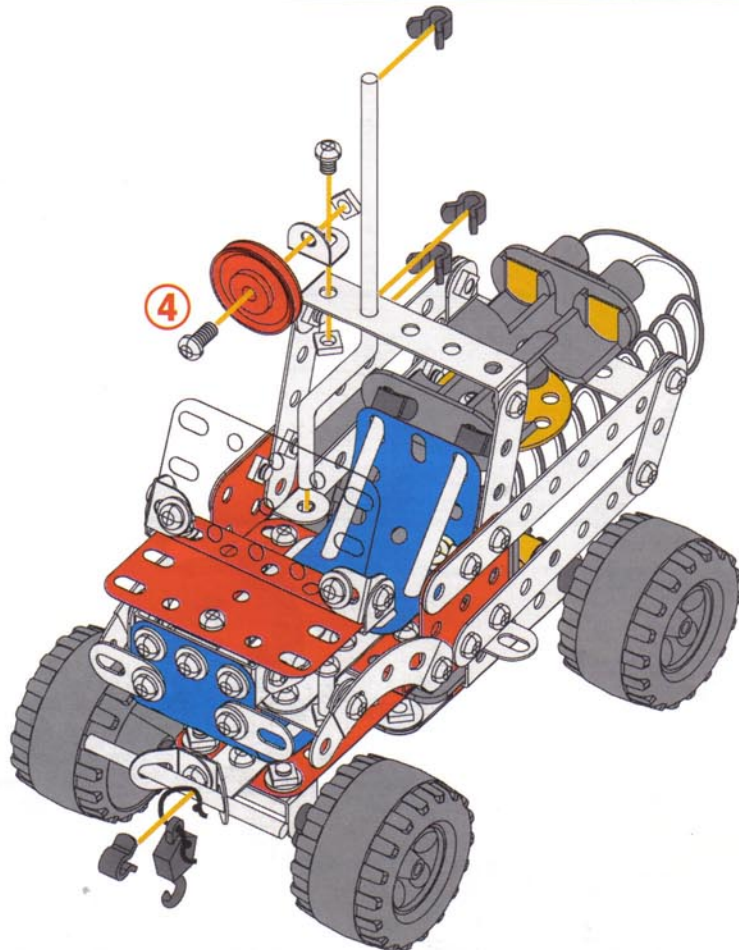
 x 1

 x 1

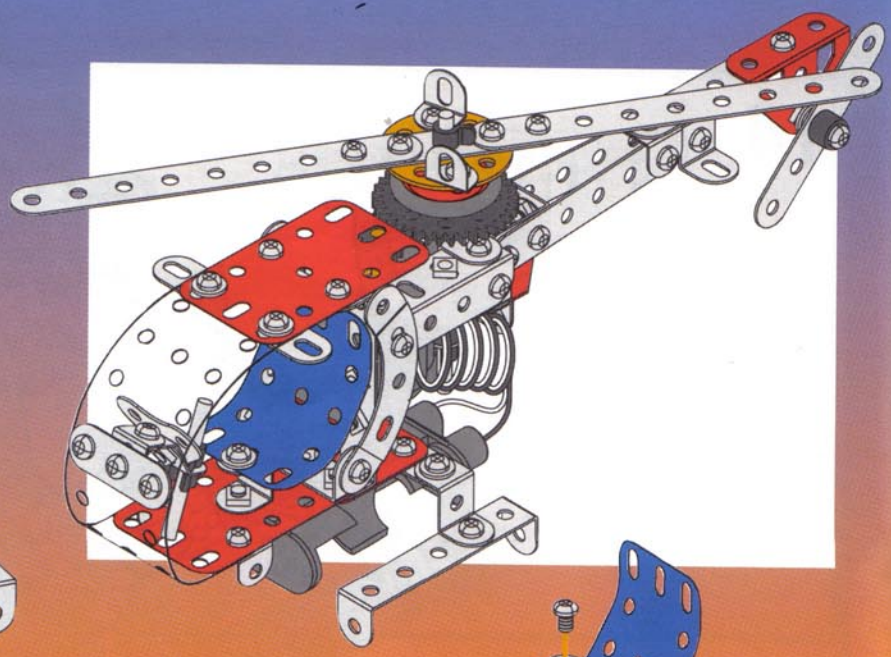
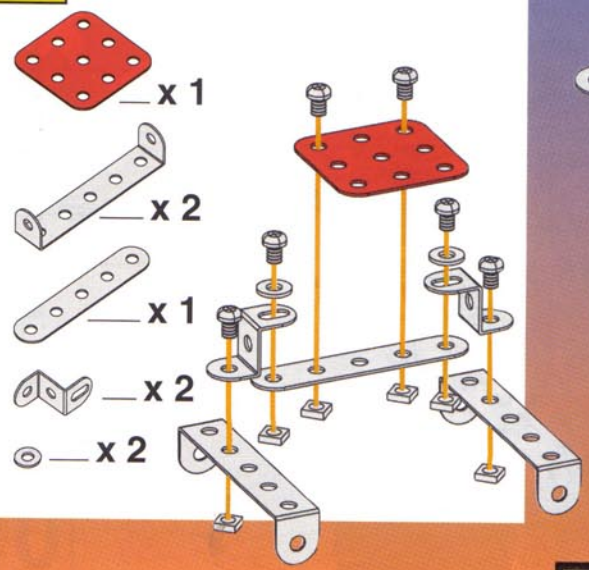
 x 1

 $\frac{9.5 \text{ mm}}{\frac{3}{8} \text{ ''}}$ x 1

 x 4

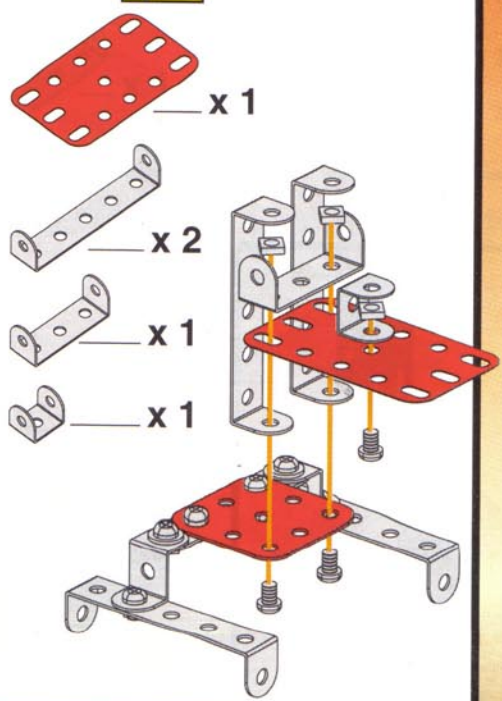


1



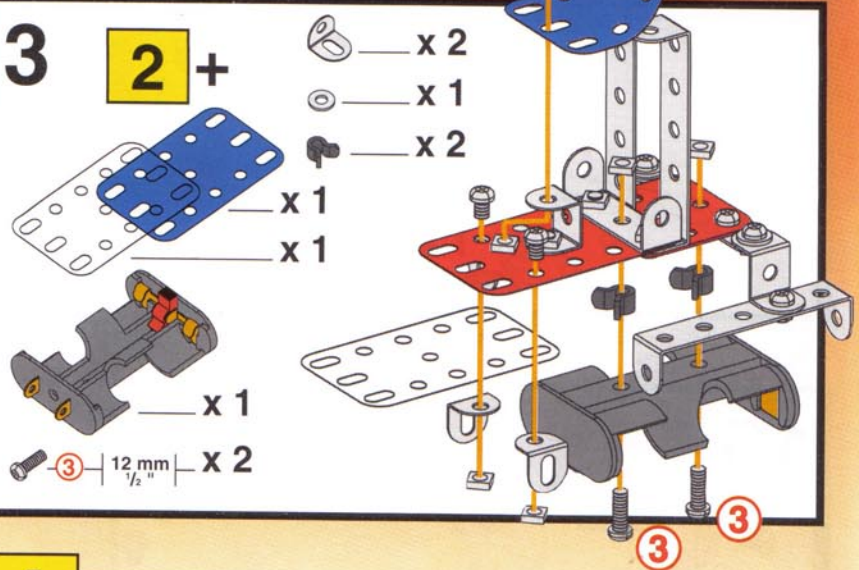
2

1 +

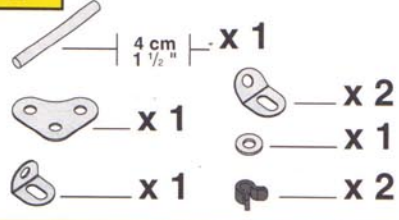


3

2 +

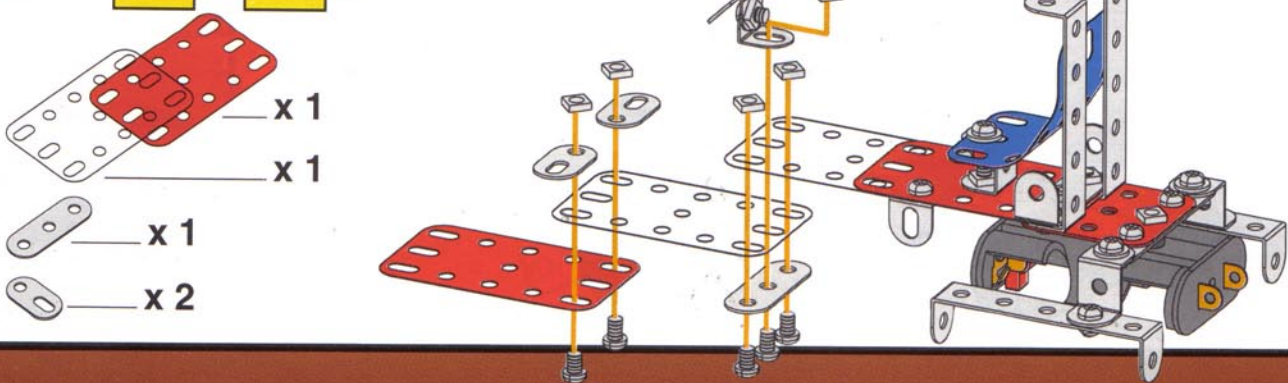


4

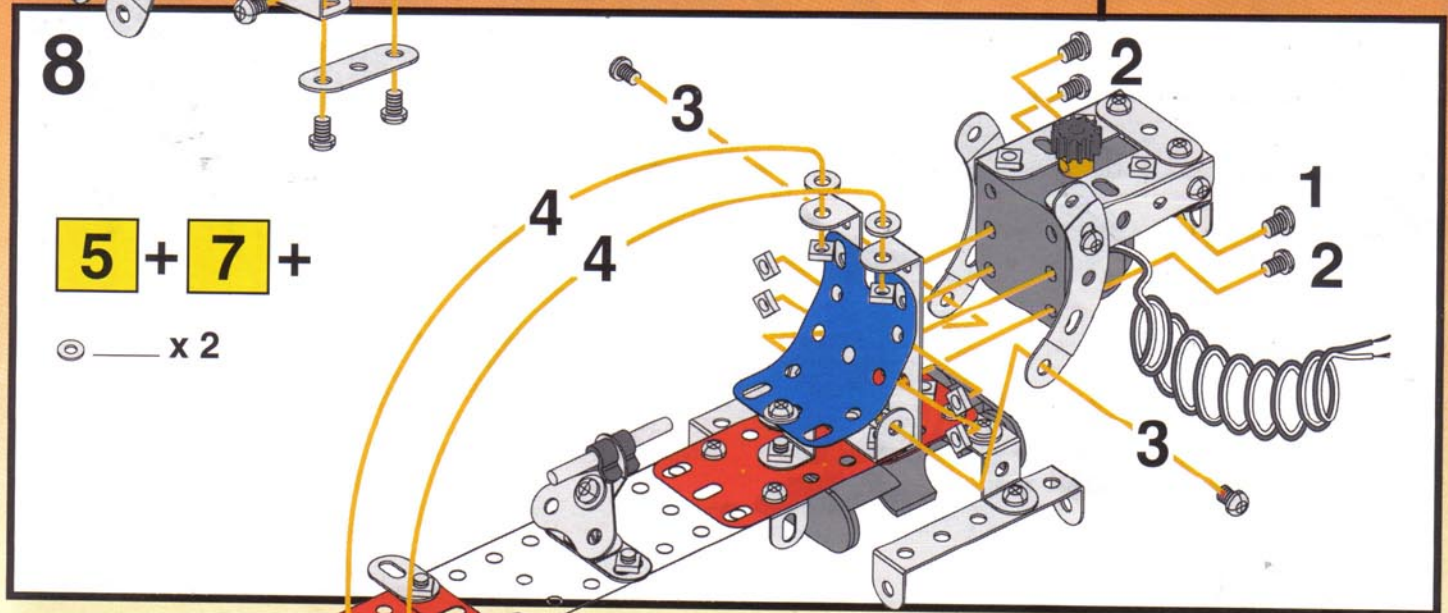
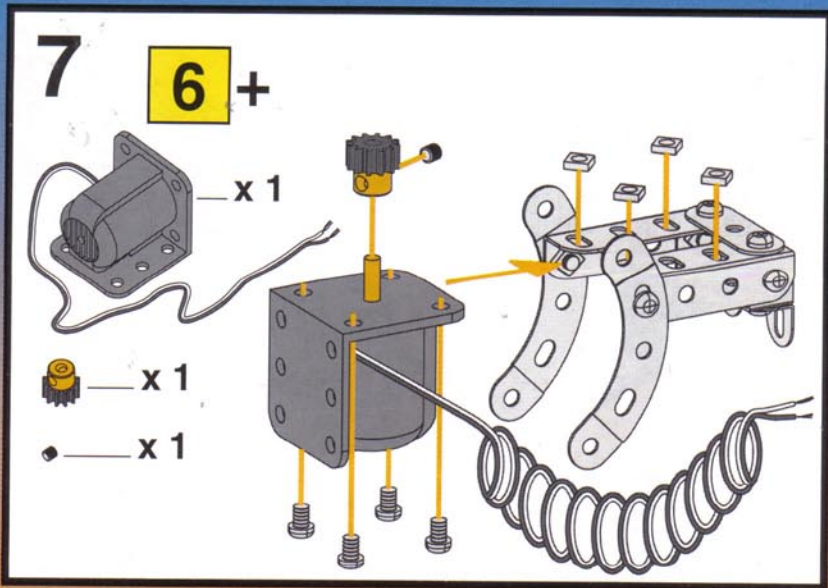
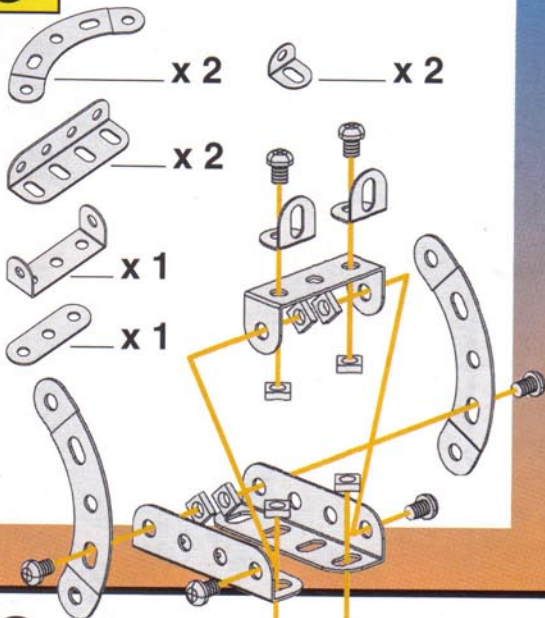


5

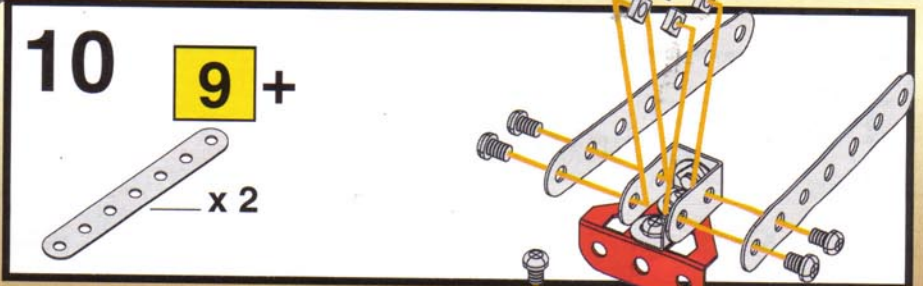
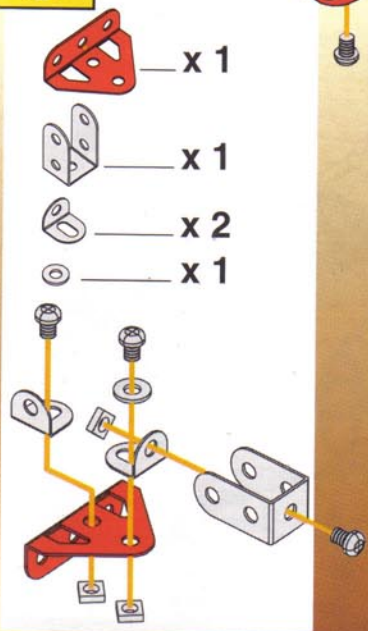
3 + **4** +



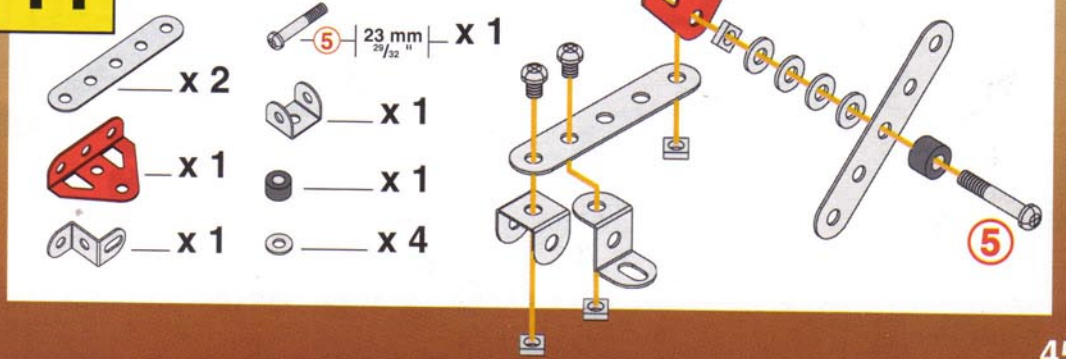
6



9

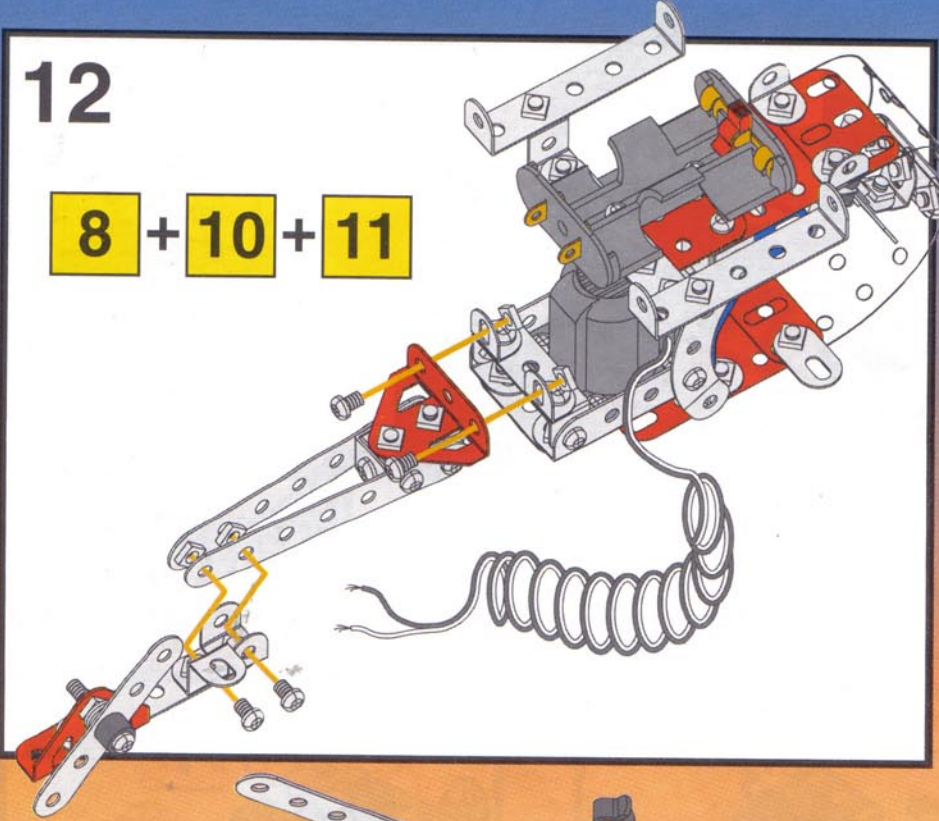


11

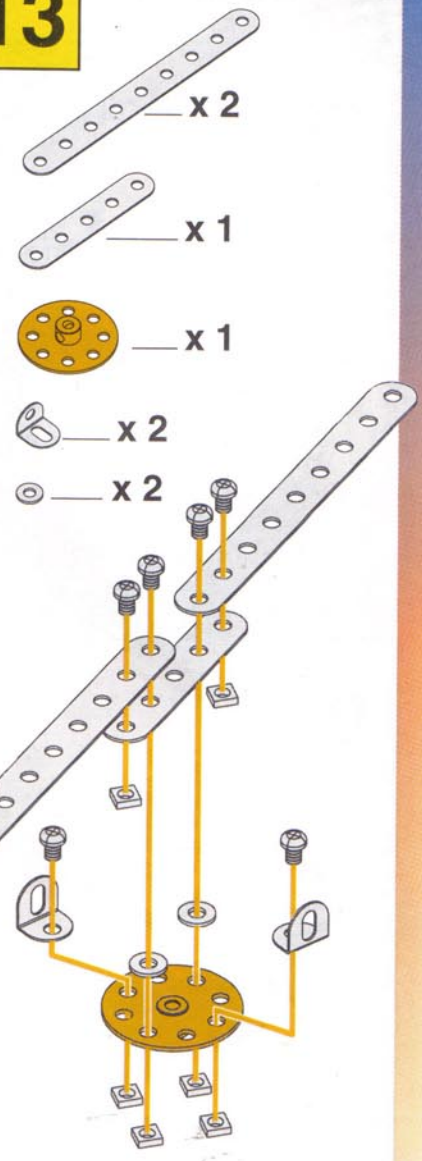


12

8 + 10 + 11

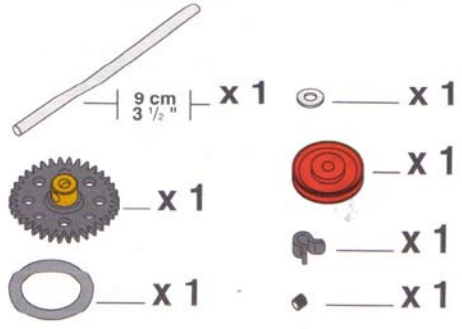


13



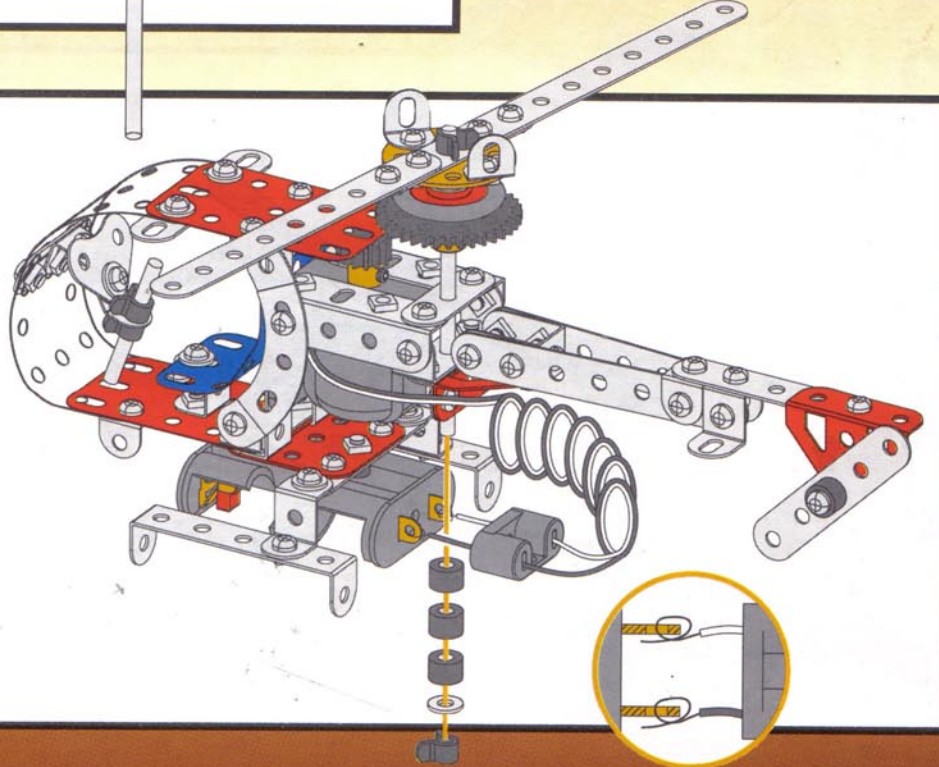
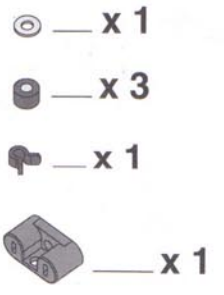
14

13 +



15

12 + 14 +



GB Connexion of the electric motor.

D Motorisierung anleitung.

I Montaggio dell'insieme motorizzazione.

S Anslutning av elmotor.

SF Mootorin kytkentä.

DK Samling af motordel.

F Montage de l'ensemble motorisation.

E Montaje de la junta de motorización.

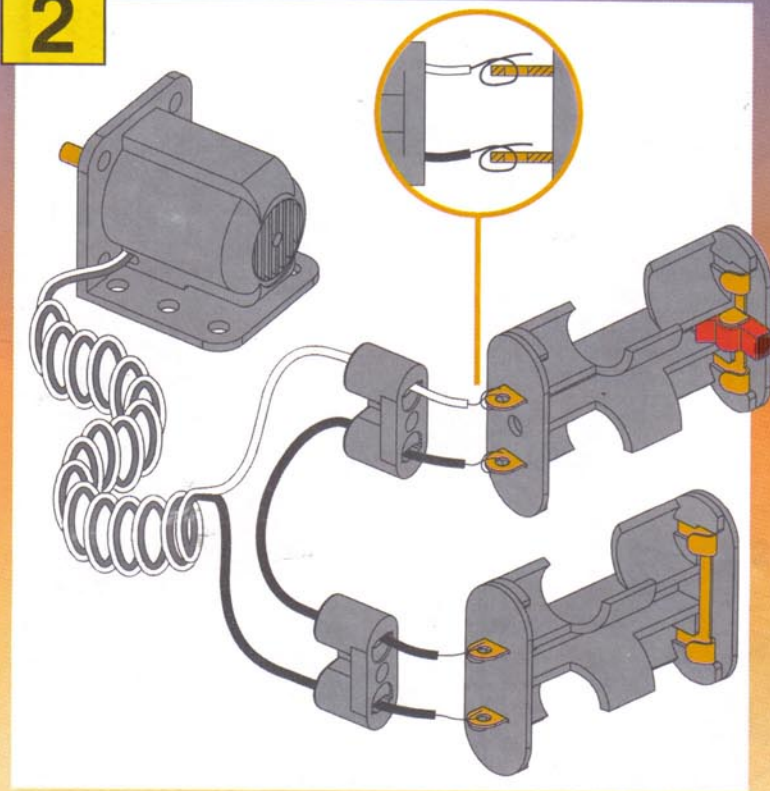
NL Montage van de gemotoriseerde set.

P Montagen das ligacões de motor electrico.

GR Συναρμολόγηση των κινητήρα

JPN モーターの組付け

2



GB Inversion of motor direction.

D Laufrichtungs - Umschalter.

I Inversione del senso di rotazione del motorino.

S Förändring av rörelseriktning.

SF Mootorin pyörimissuunnan muuttaminen.

DK Omvendning af motorens omdrejningsretning.

F Inversion du sens de rotation du moteur.

E Inversion del sentido de rotación del motor.

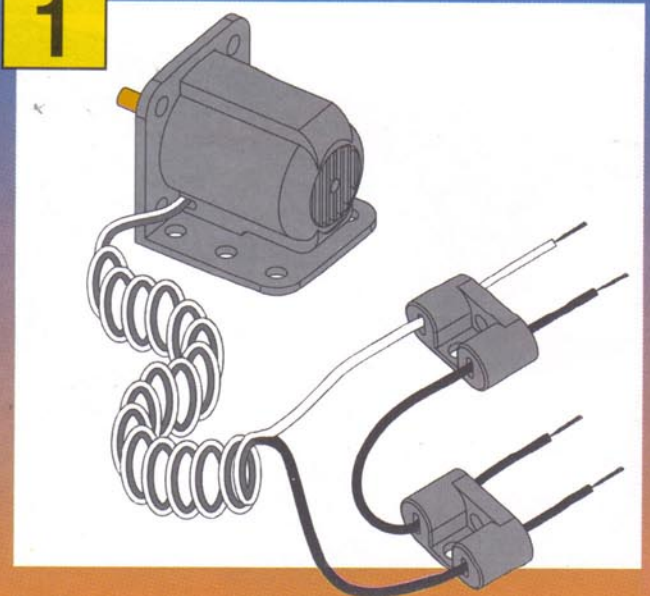
NL Omschakeling van de draairichting van de motor.

P Inversão do sentido de rotação do motor.

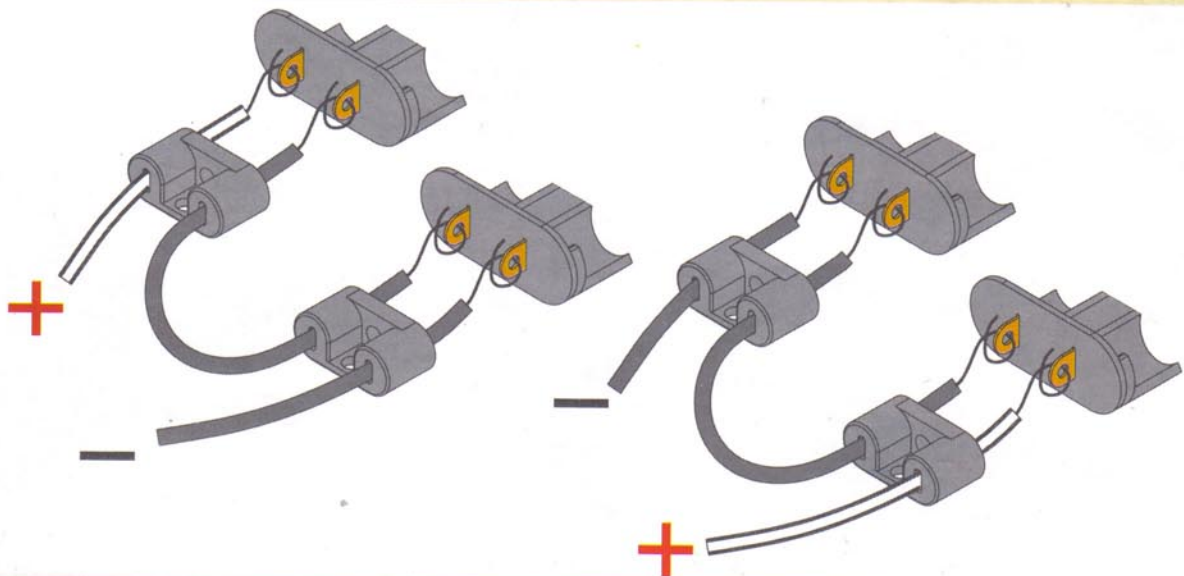
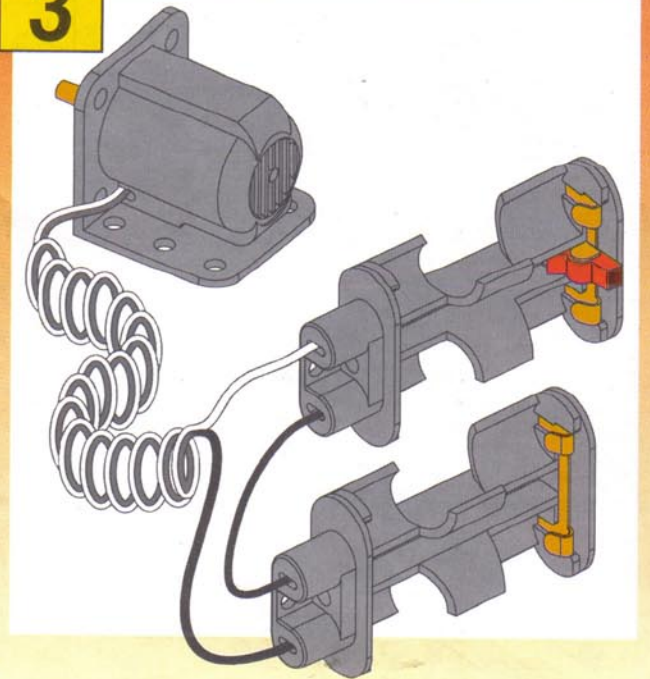
GR Αναστροφή της φοράς περιστροφής του κινητήρα

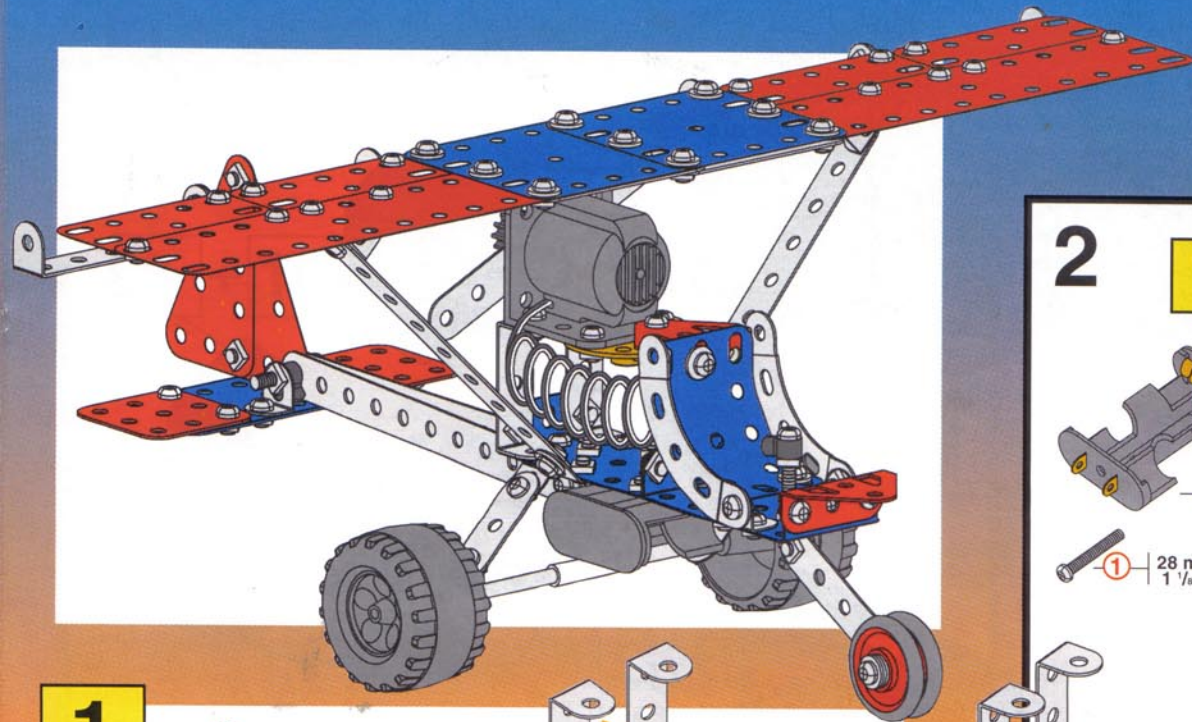
JPN モーター反転

1



3



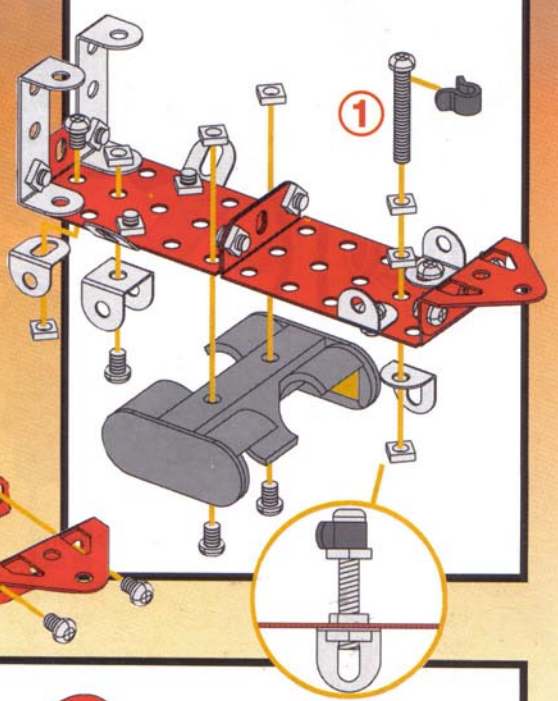
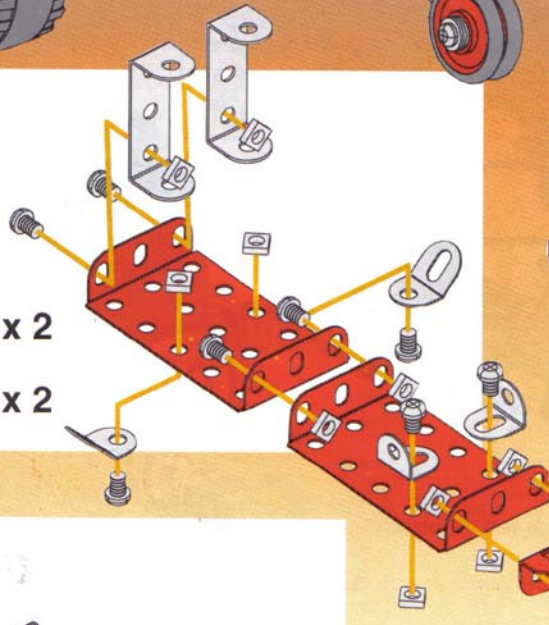


2 **1** +

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

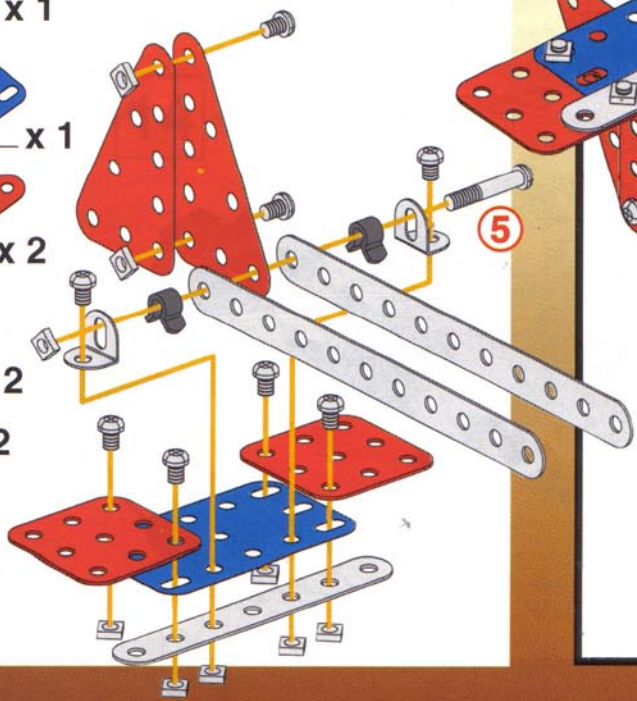
1

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



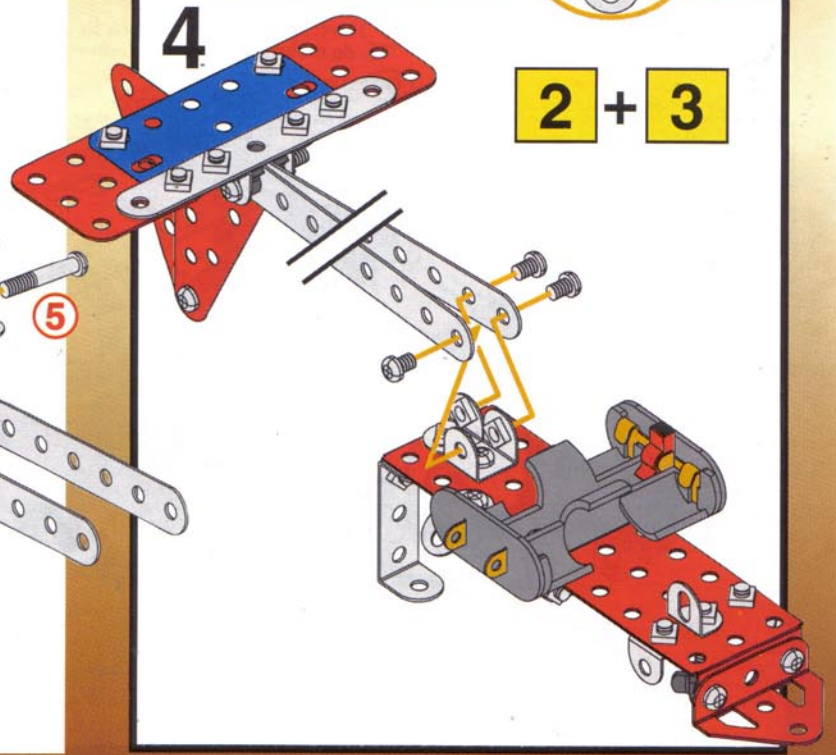
3

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








4

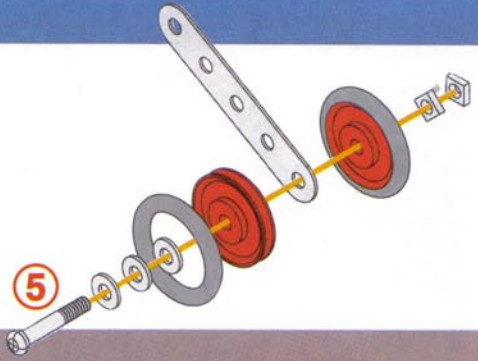
2 + **3**



10





-  x 1
-  (5) | 23 mm | $\frac{29}{32}$ " | x 1



-  x 2
-  x 2
-  x 3

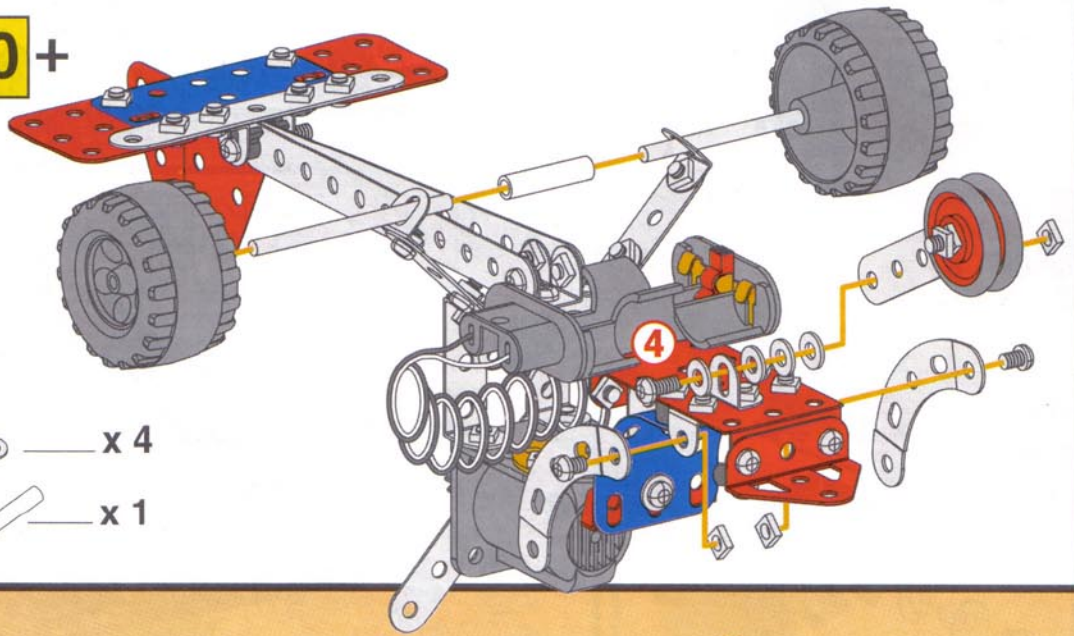


11

8 + 10 +

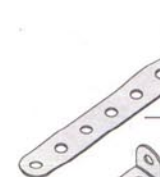
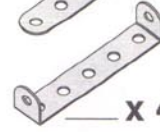


-  | 6 cm | $2\frac{1}{2}$ " | x 2
-  x 2
-  x 2
-  (4) | 9,5 mm | $\frac{3}{8}$ " | x 1

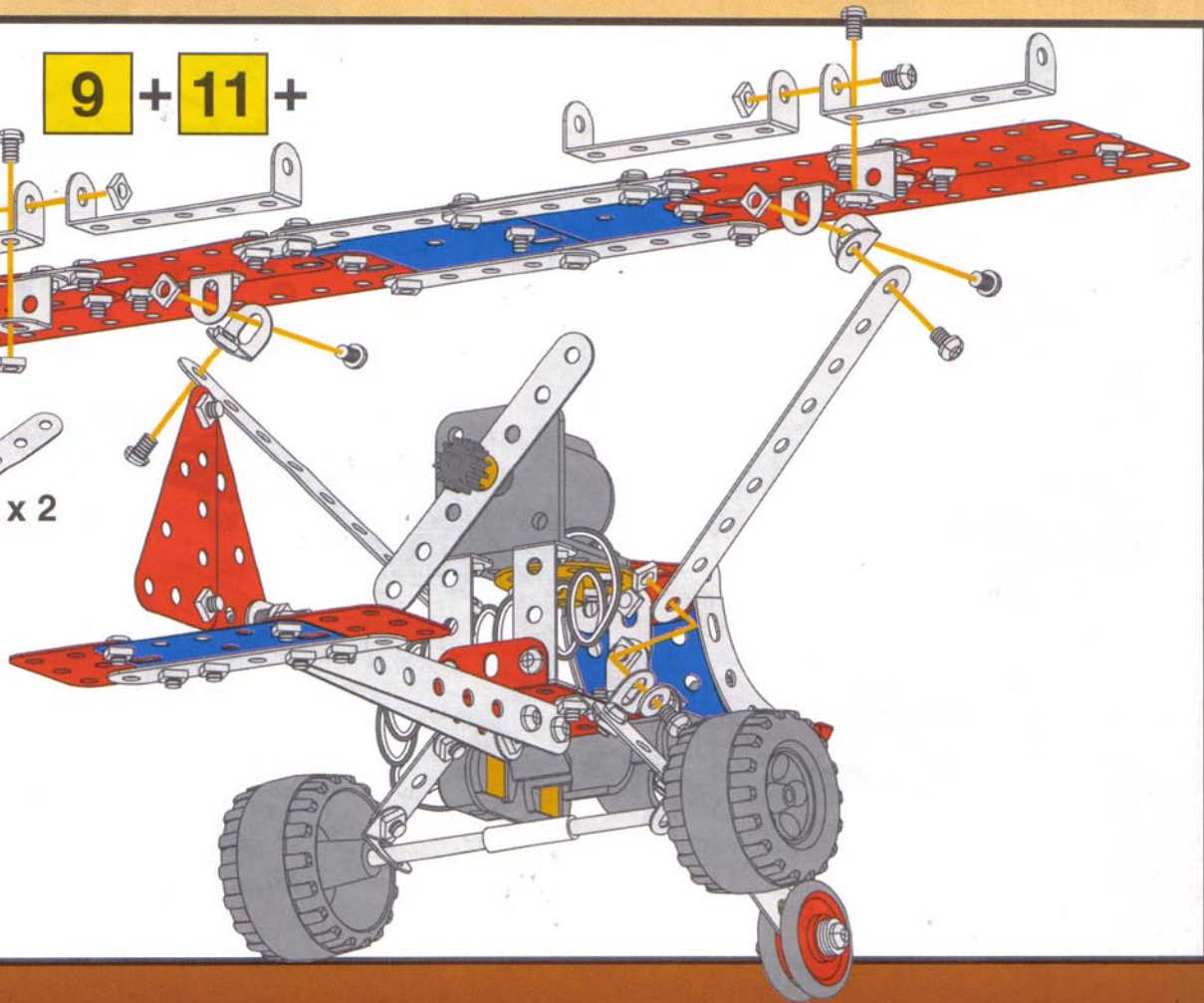
-  x 4
-  x 1



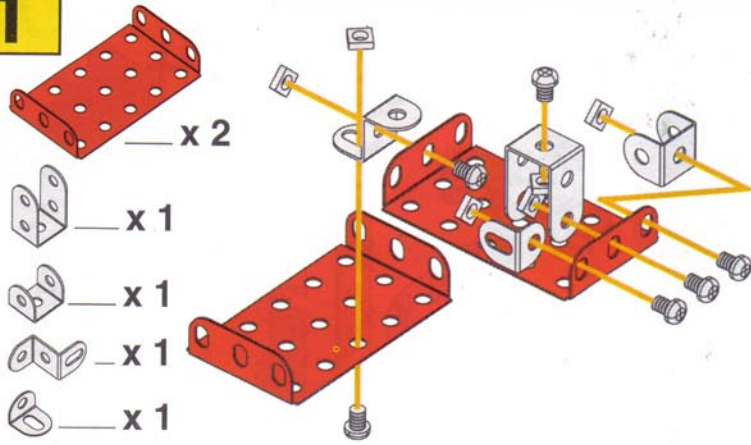
12

9 + 11 +

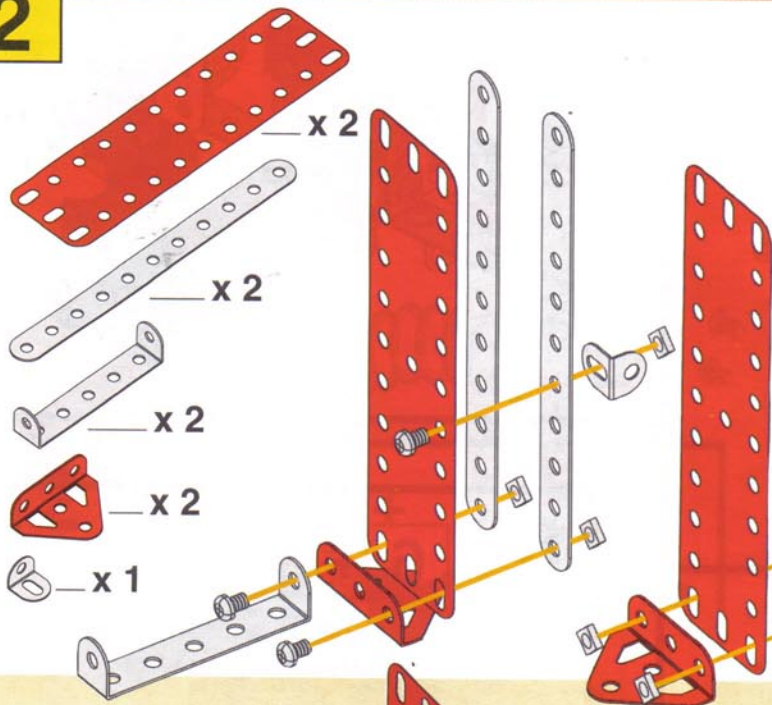
-  x 2
-  x 4
-  x 2
-  x 2



1

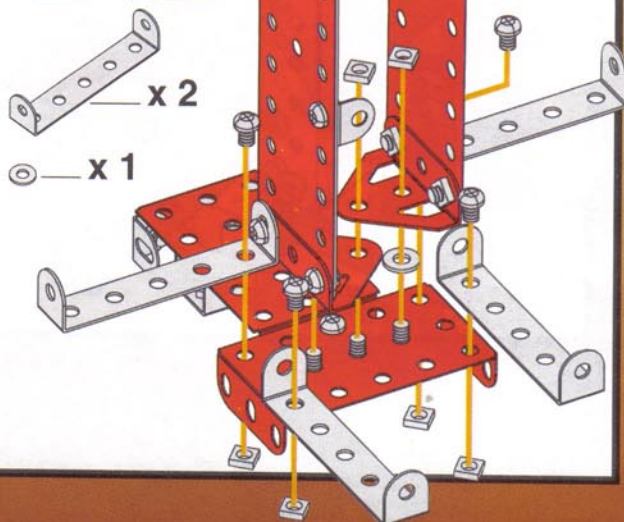


2

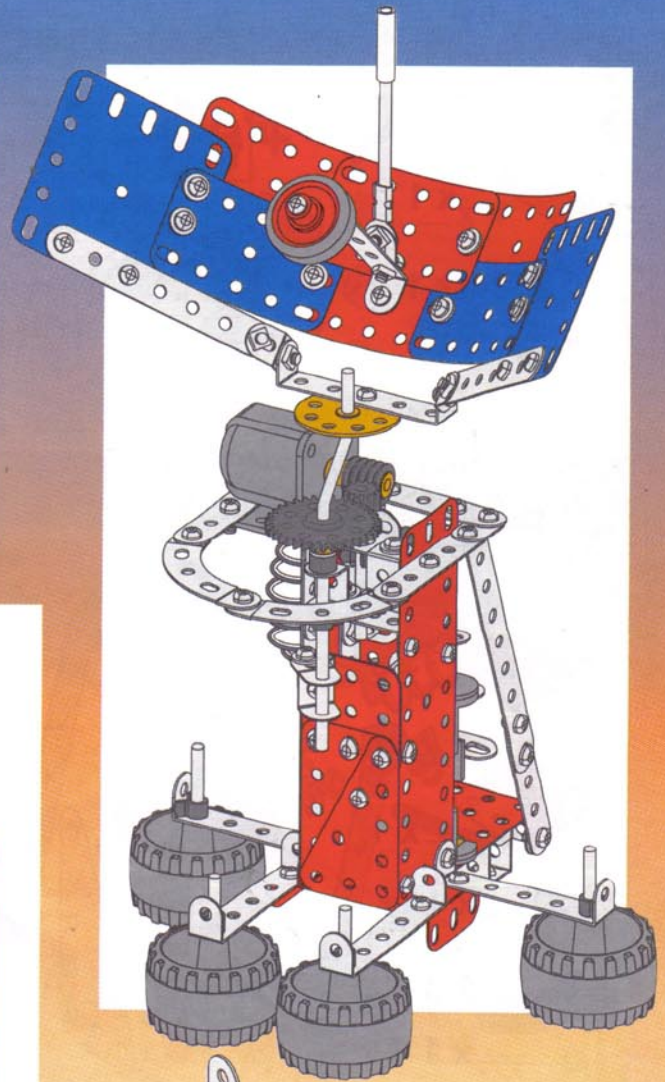
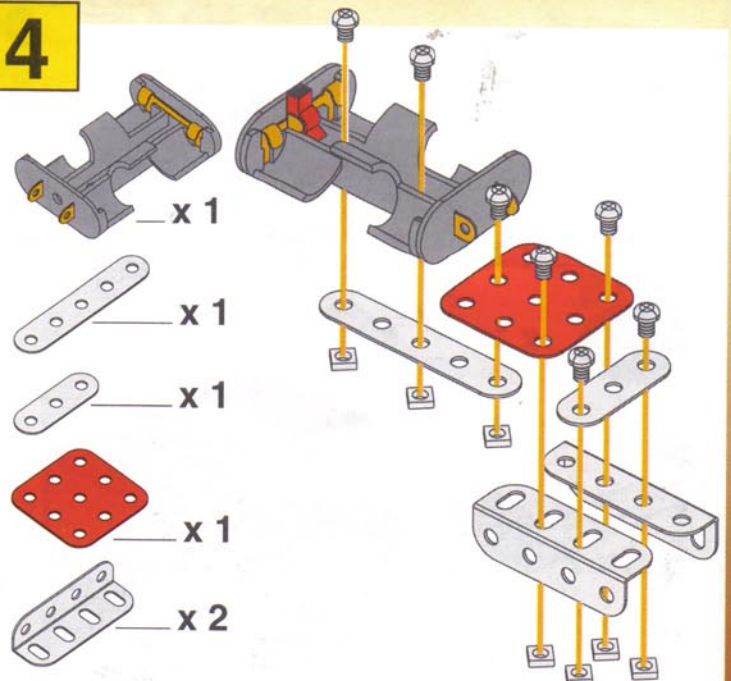


3

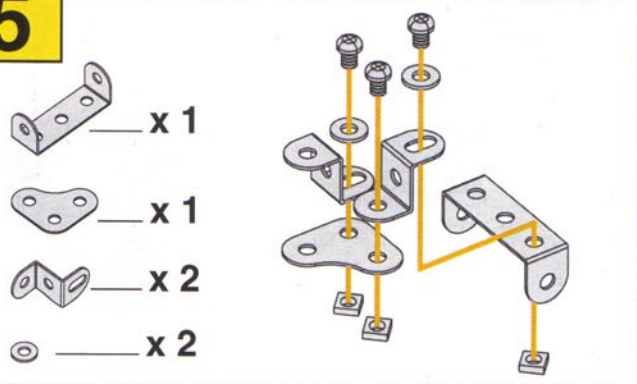
1 + 2 +



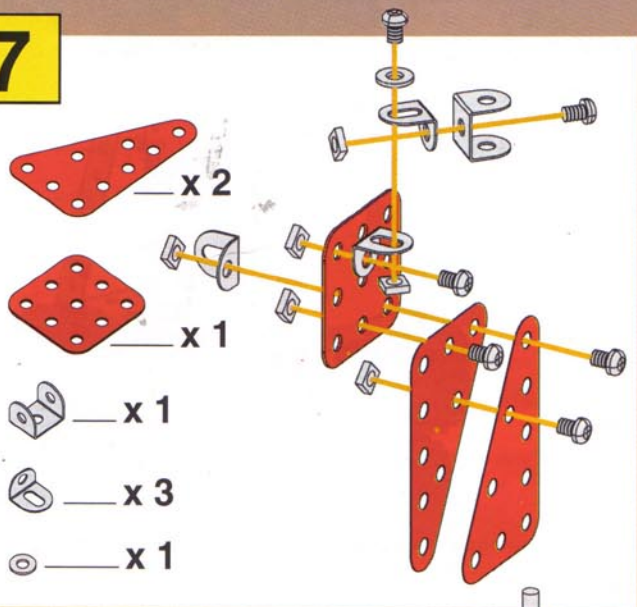
4



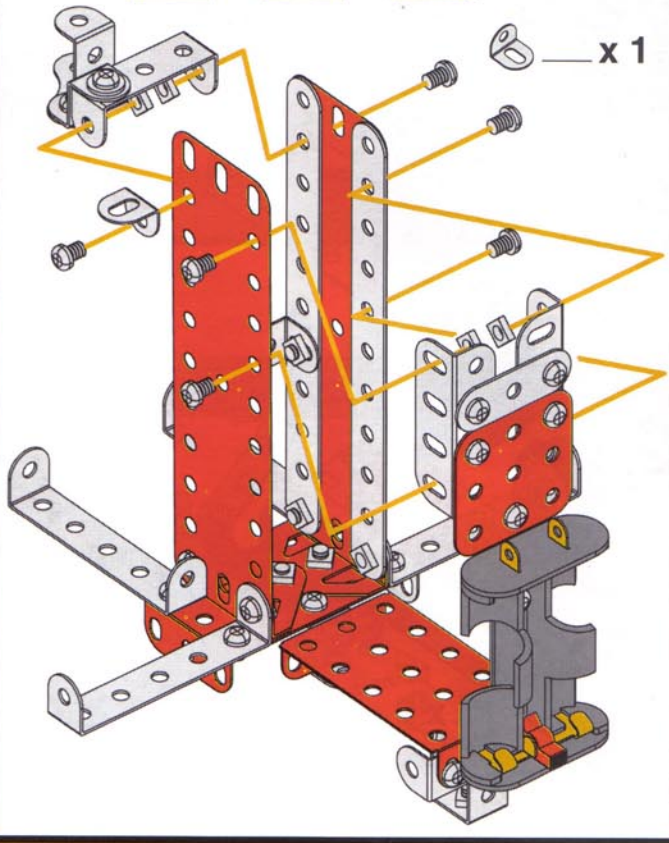
5



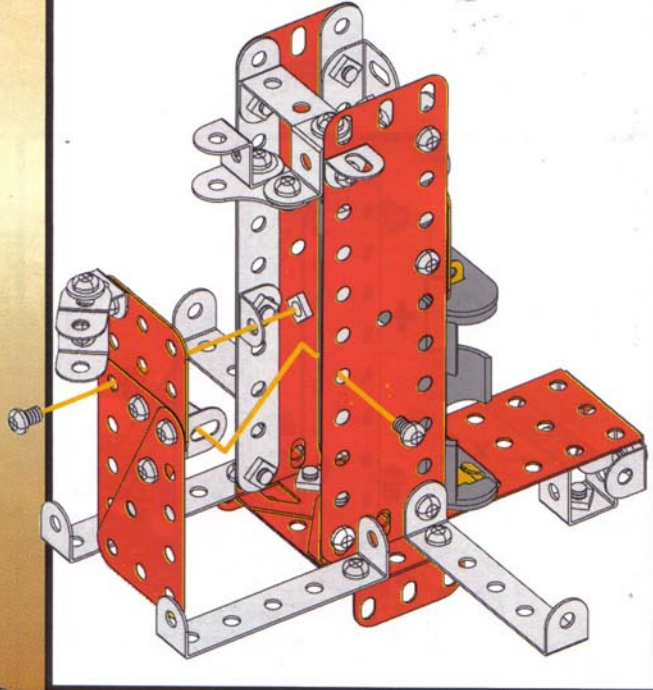
7



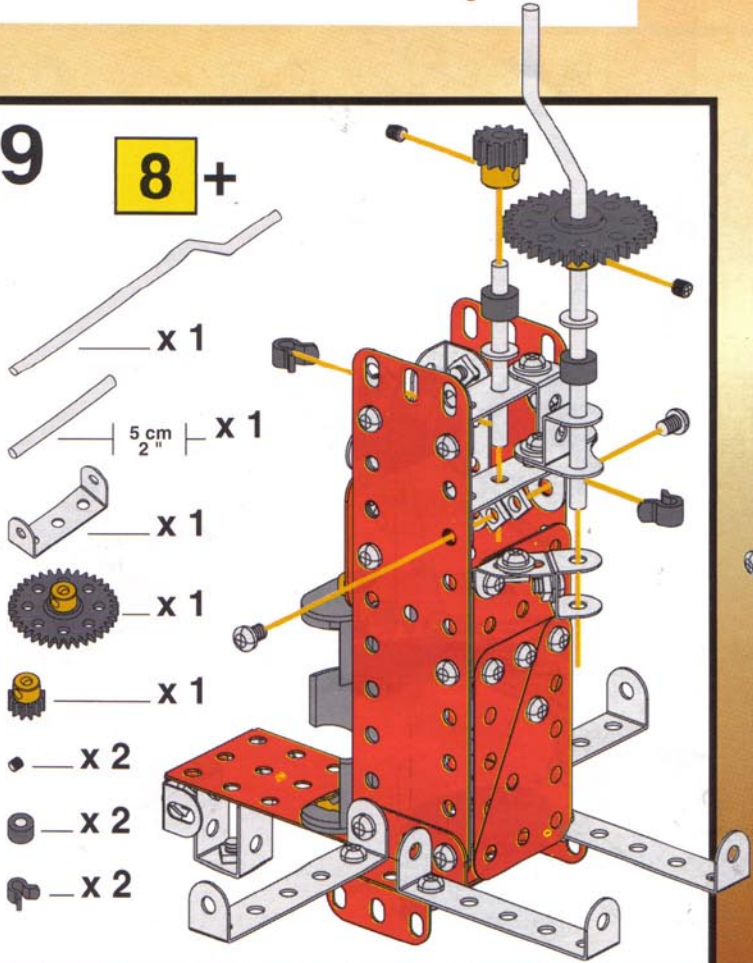
6 **3** + **4** + **5** +



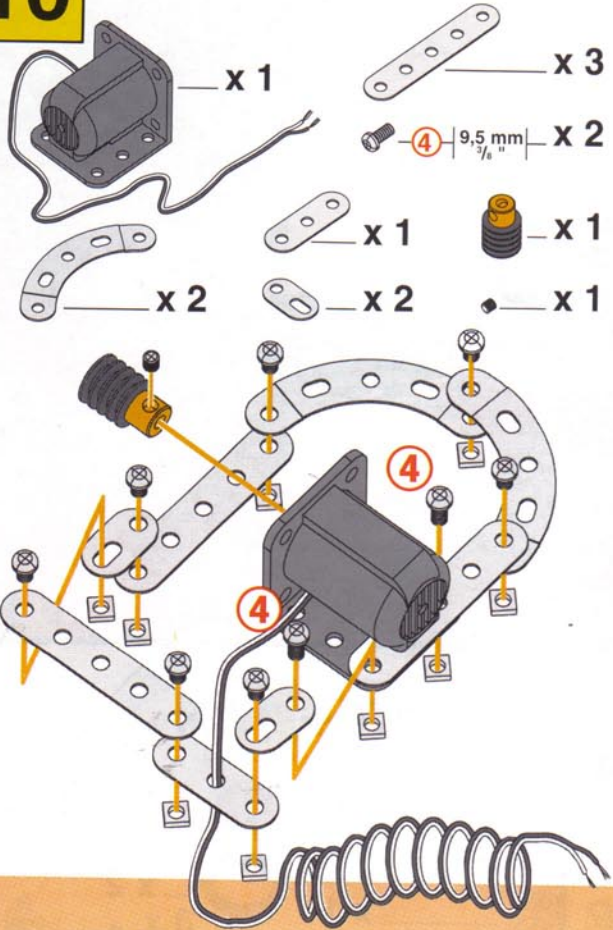
8 **6** + **7**



9 **8** +

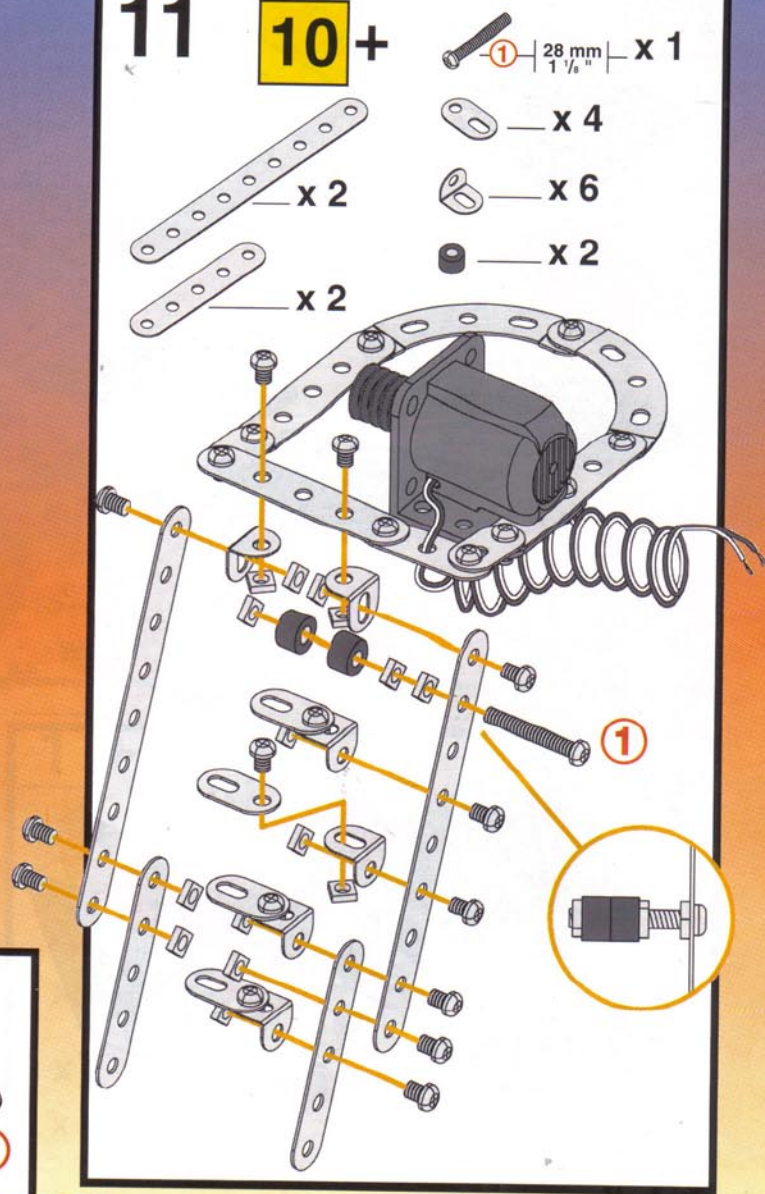


10



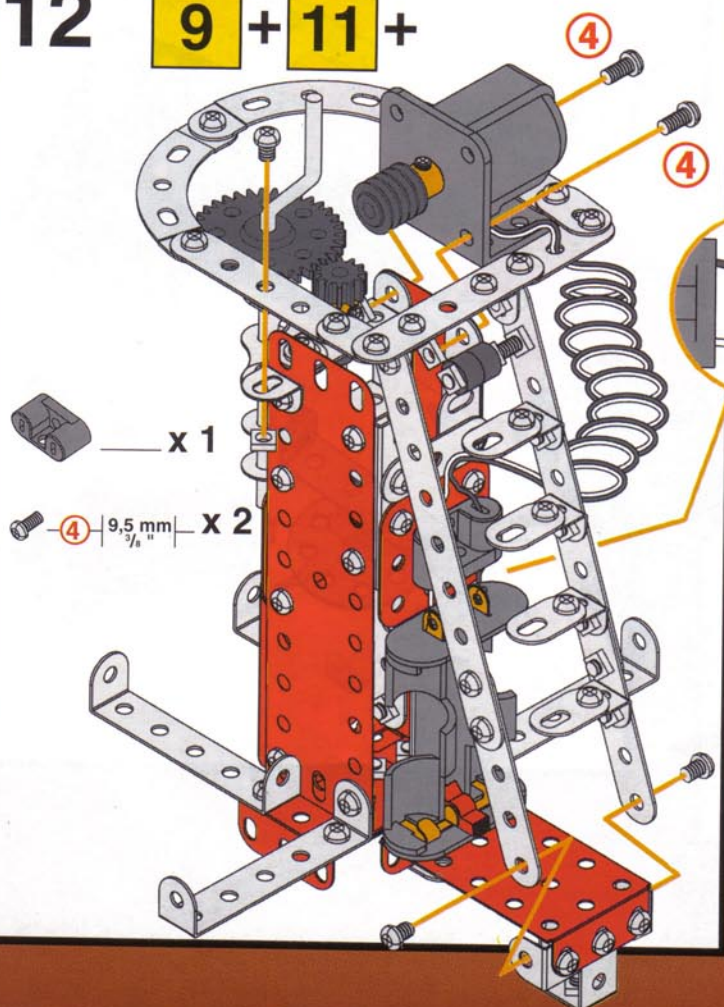
11

10+

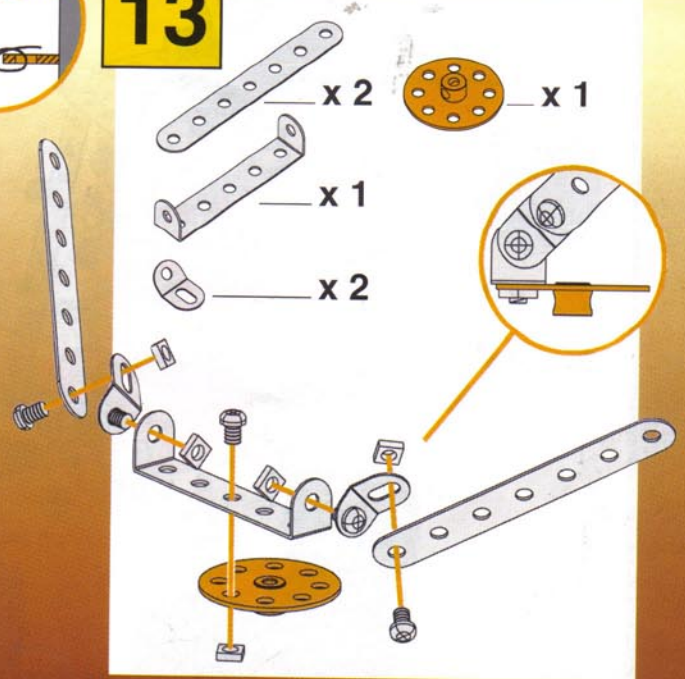


12

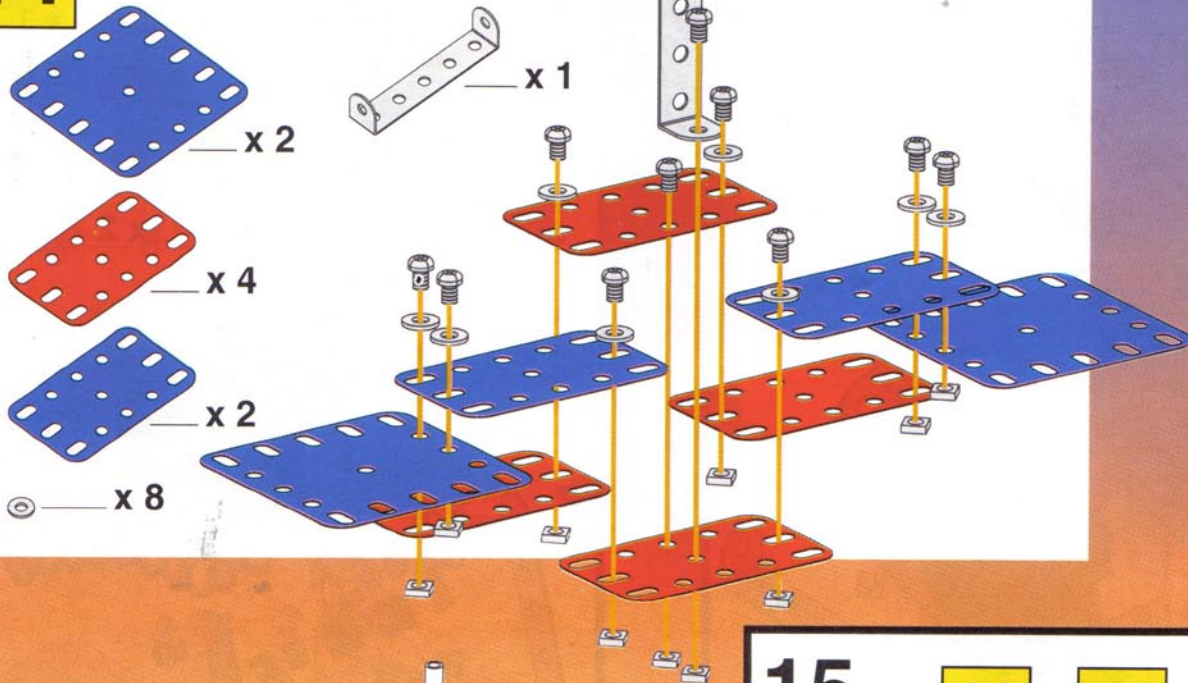
9 + 11 +



13



14



16

12 + 15 +

6 cm / 2 1/2" x 1

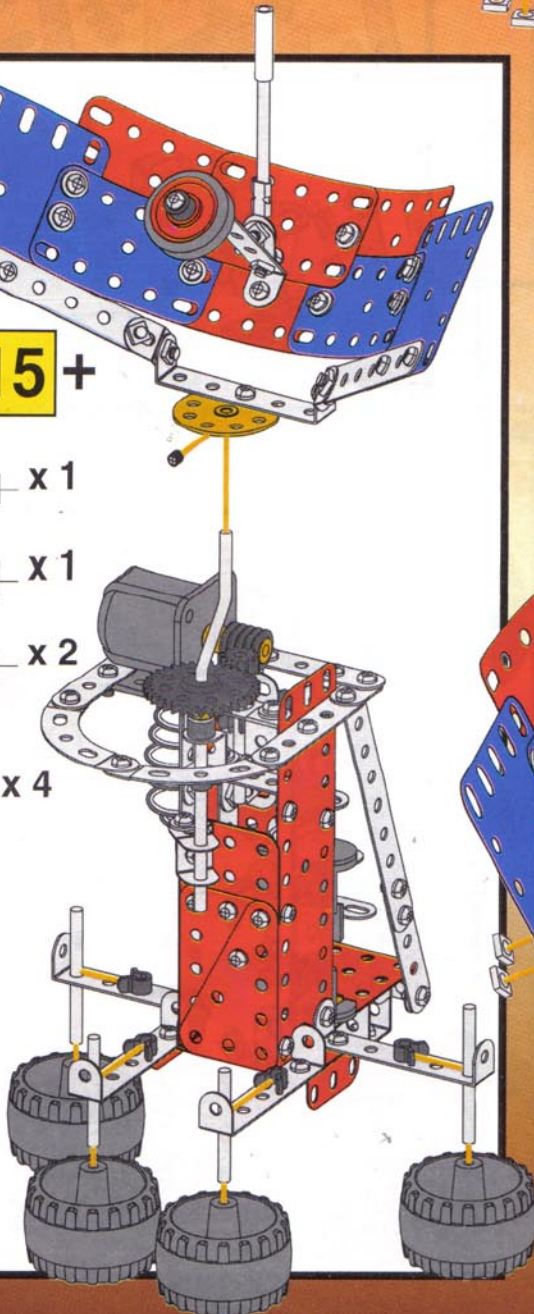
5 cm / 2" x 1

4 cm / 1 1/2" x 2

x 4

x 1

x 4



15

13 + 14 +

6 cm / 2 1/2" x 1

x 1

23 mm / 29/32" x 1

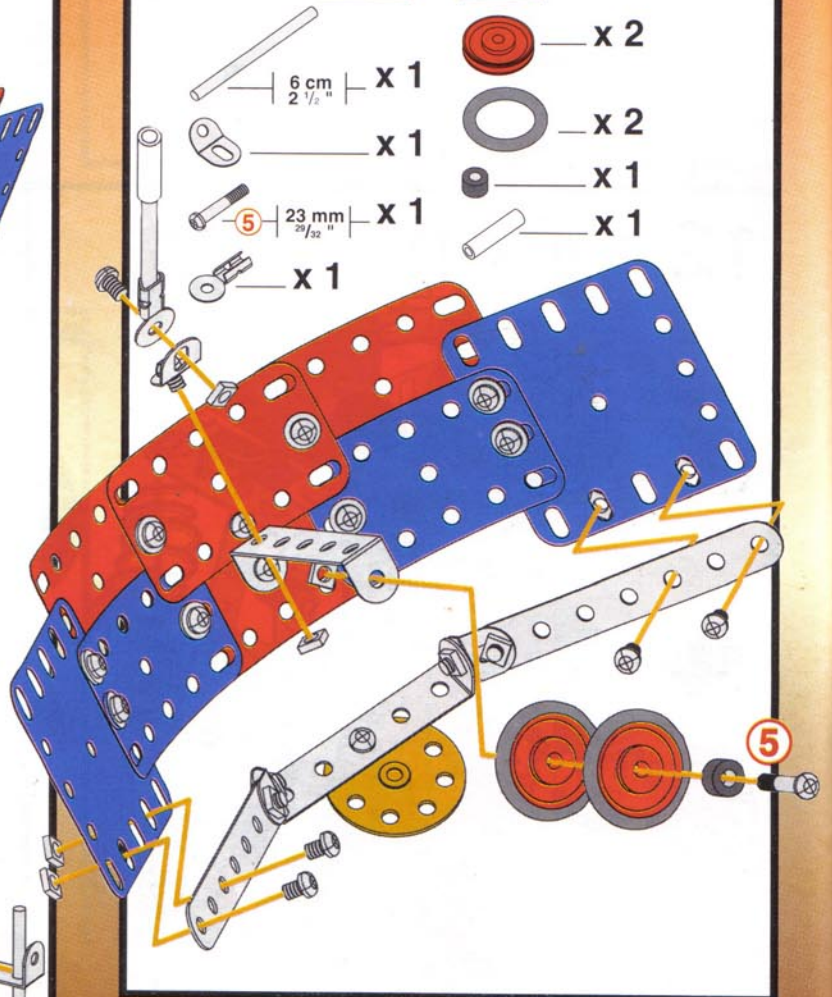
x 1

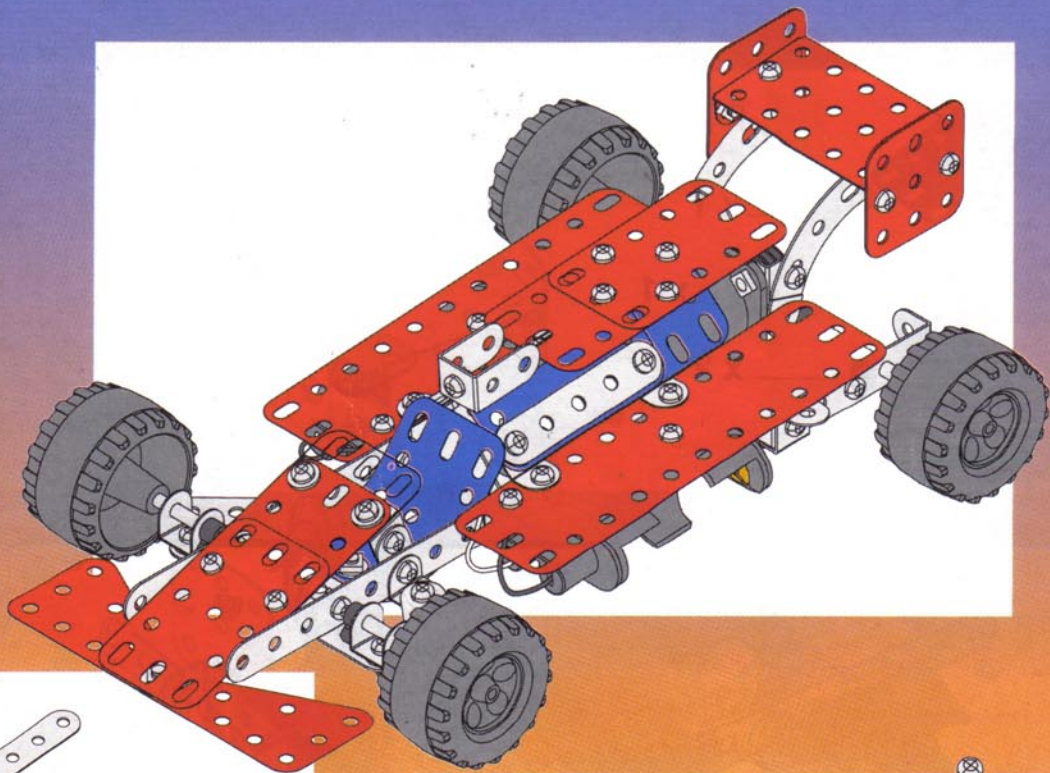
x 2

x 2

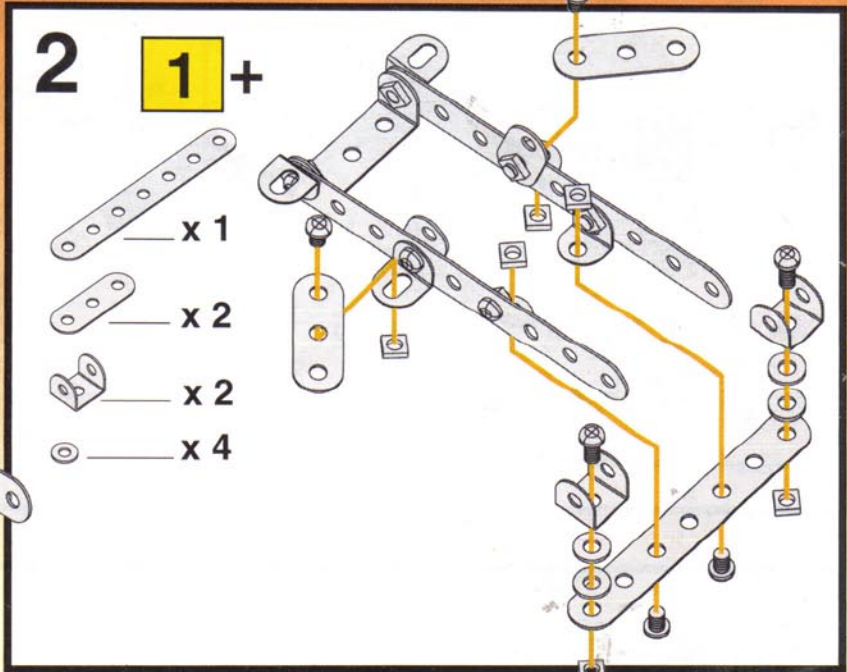
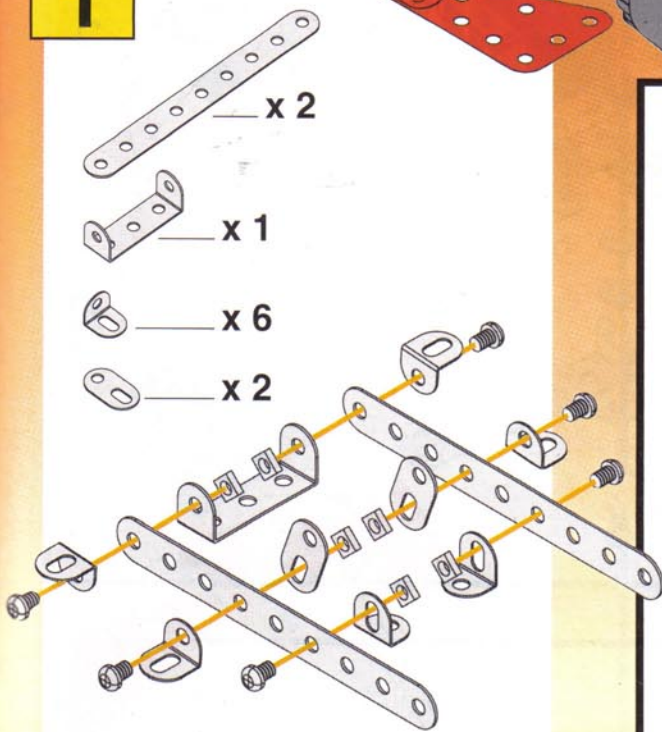
x 1

x 1

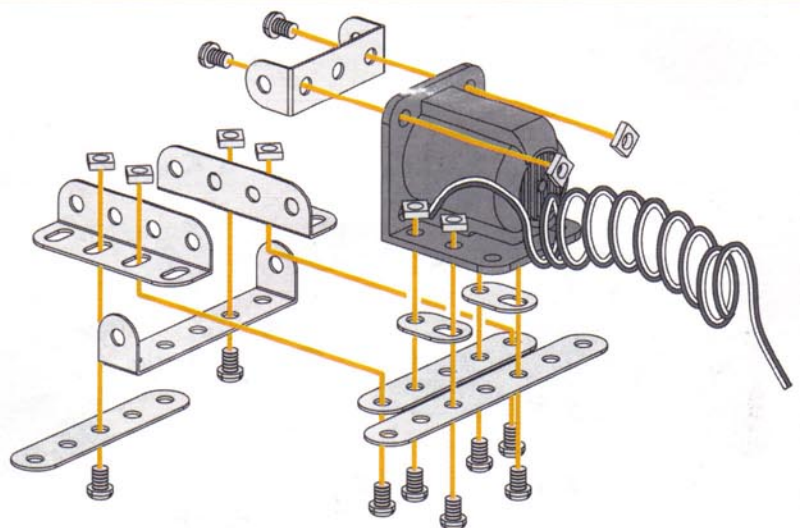
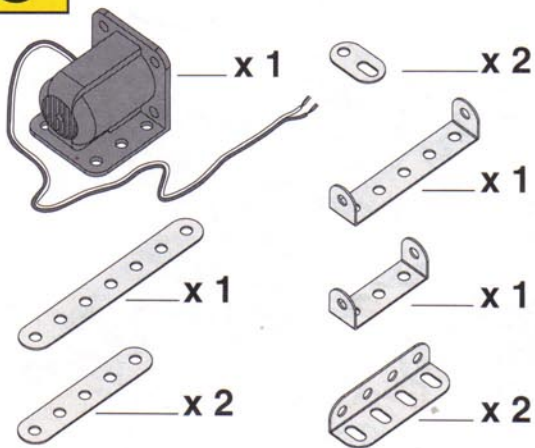




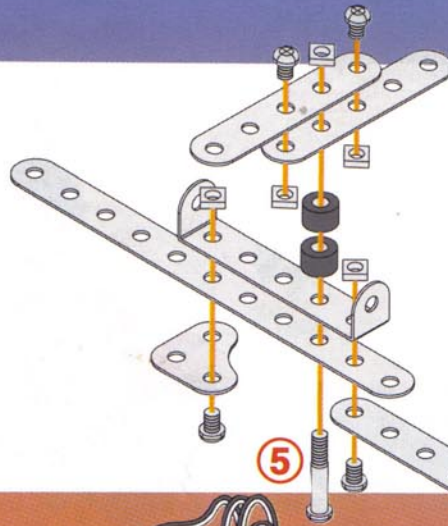
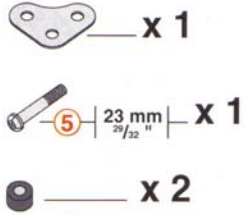
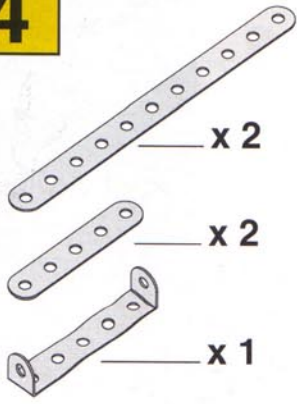
1



3

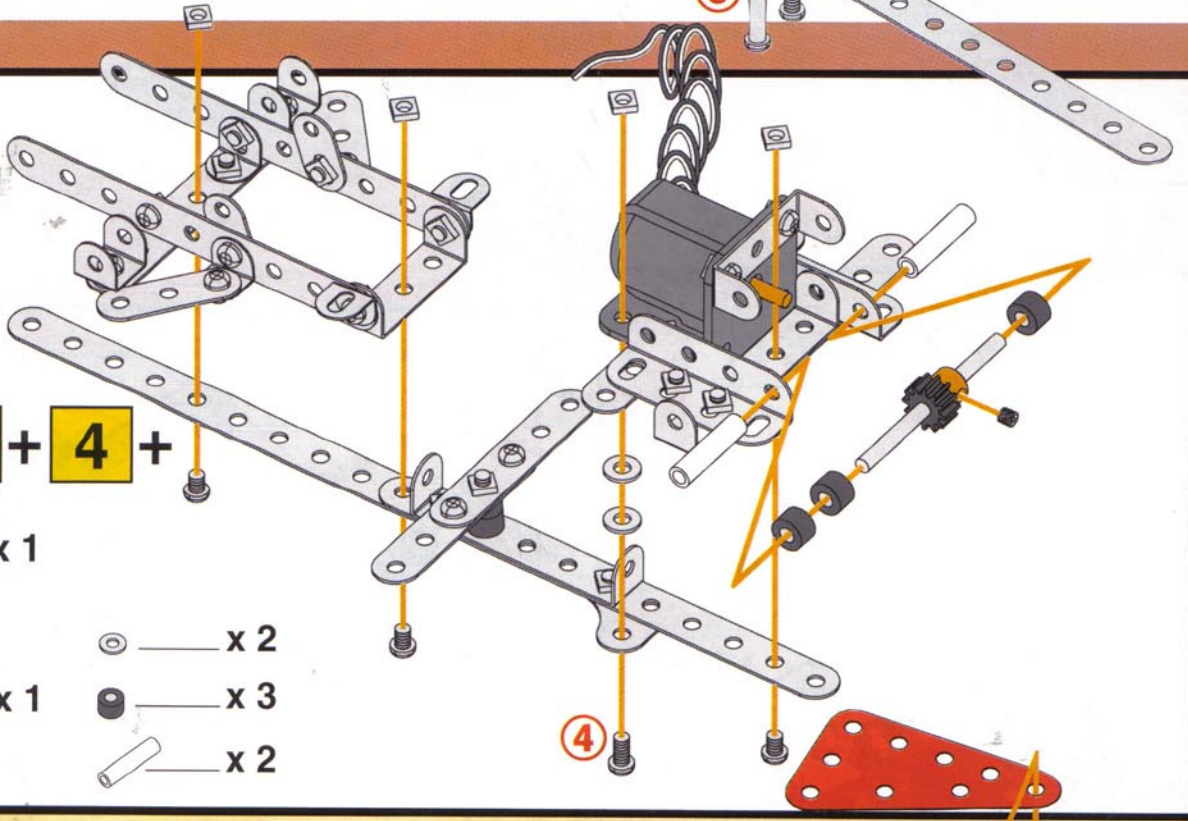
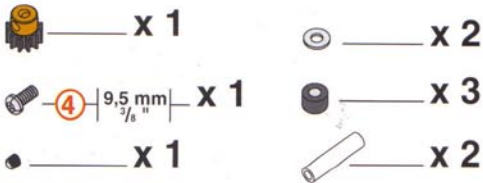
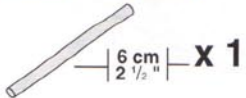


4



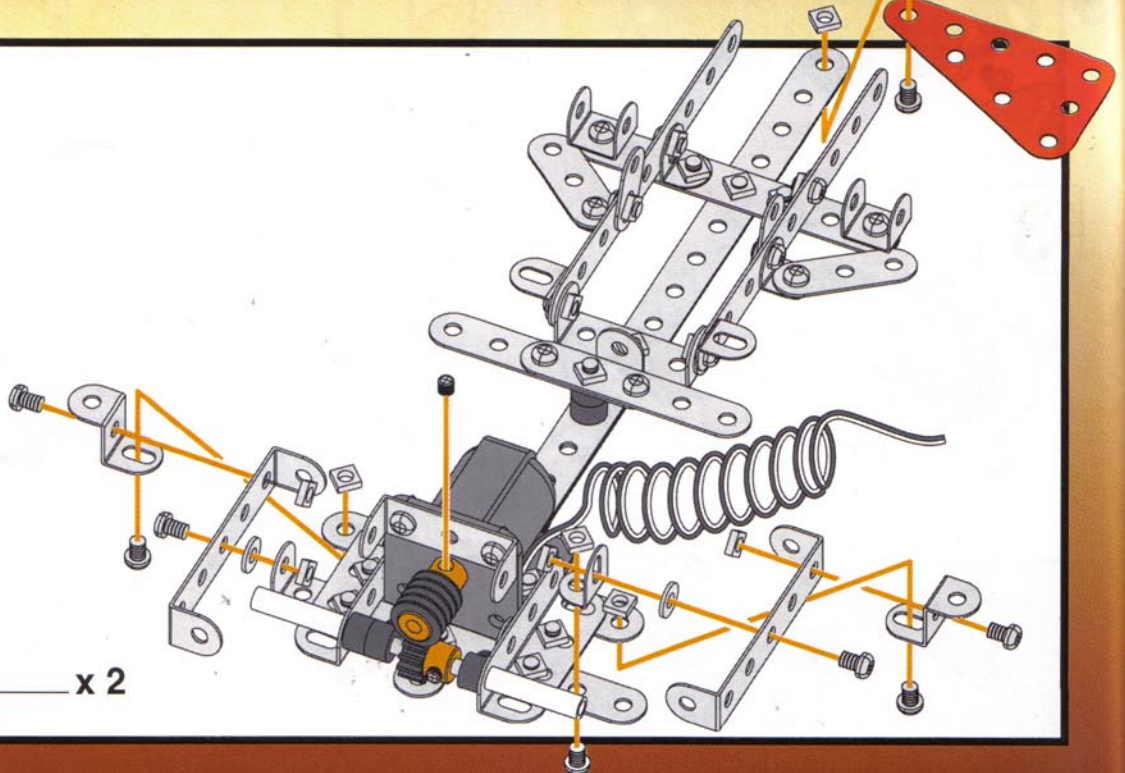
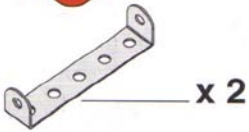
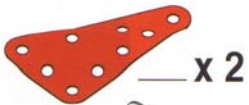
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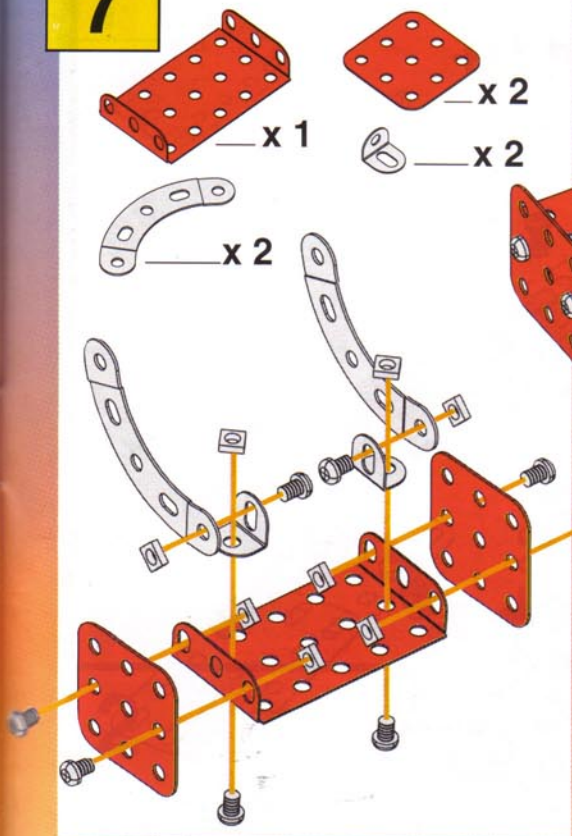
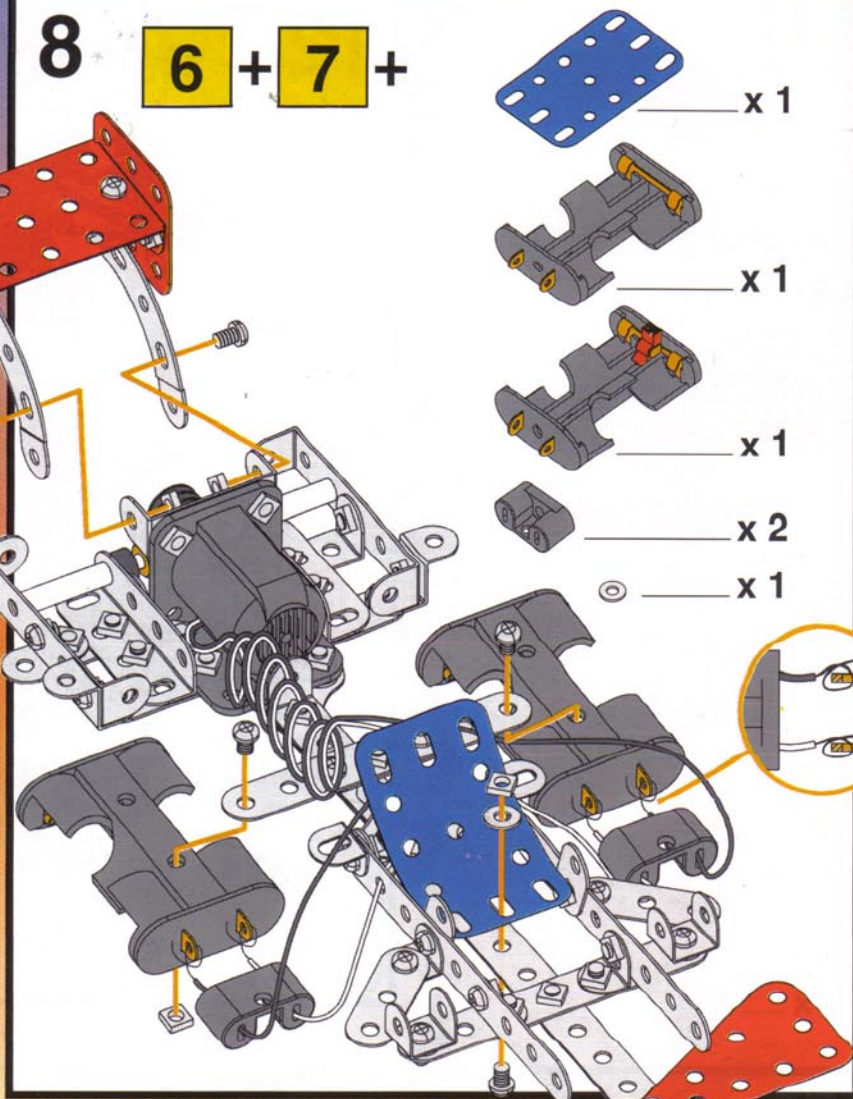
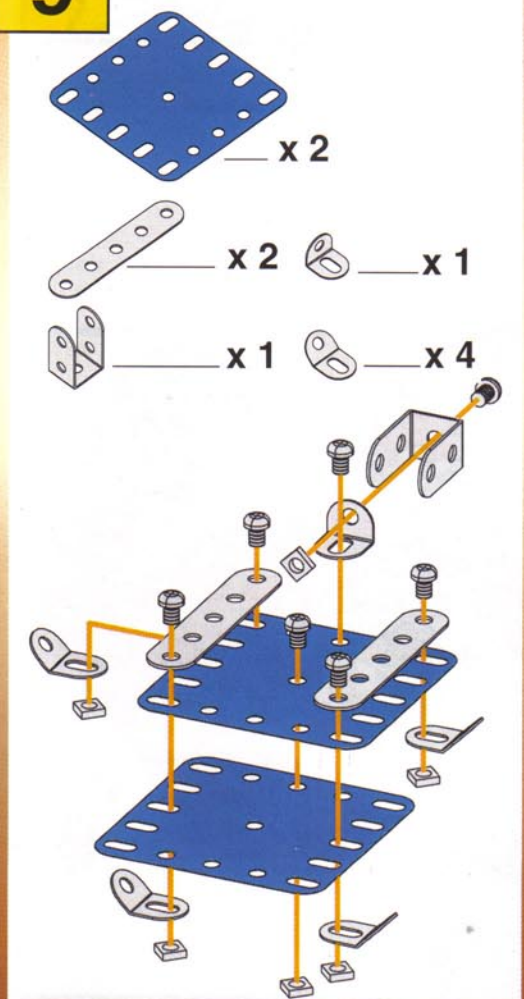
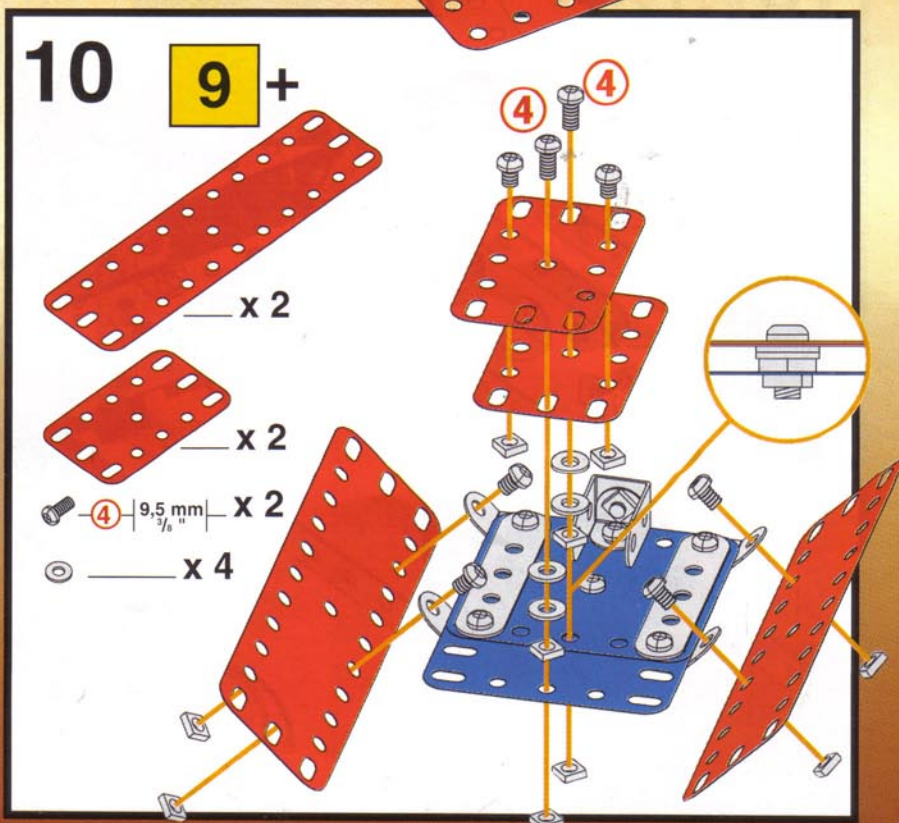
2 + 3 + 4 +



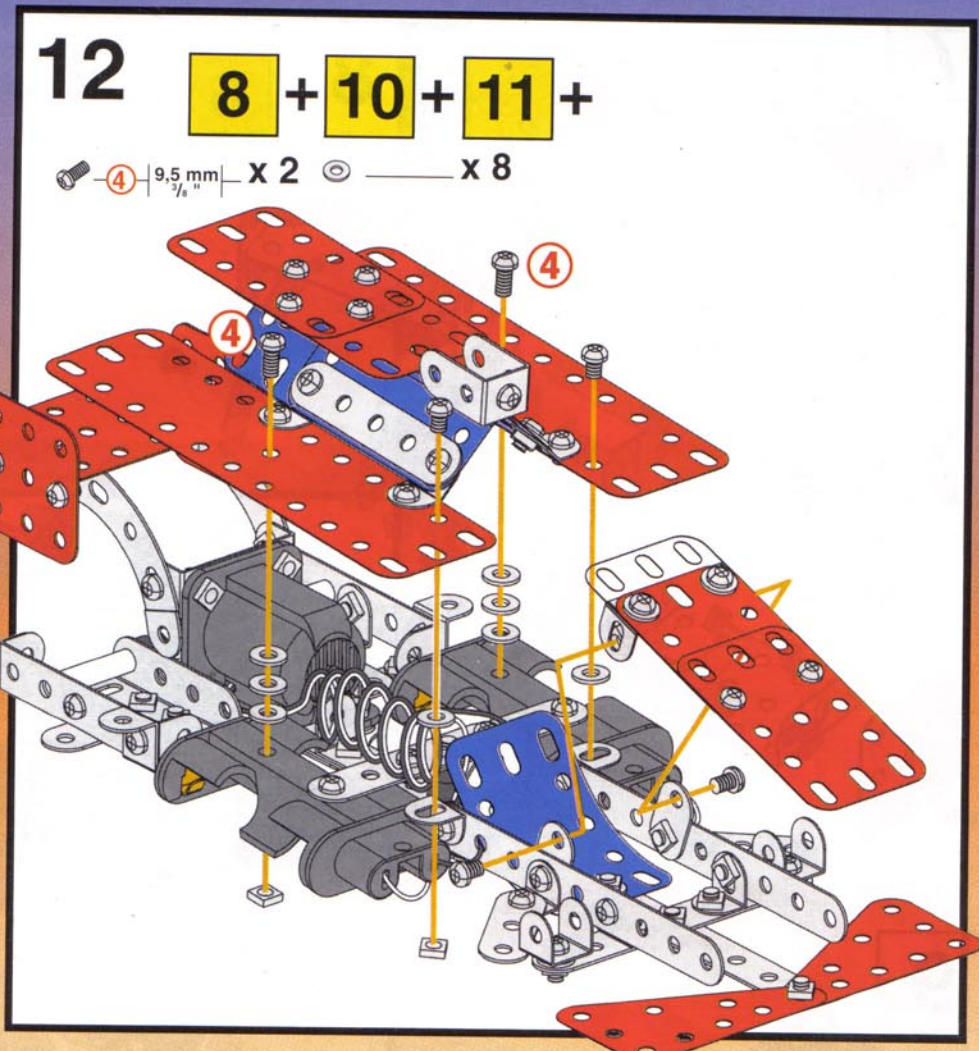
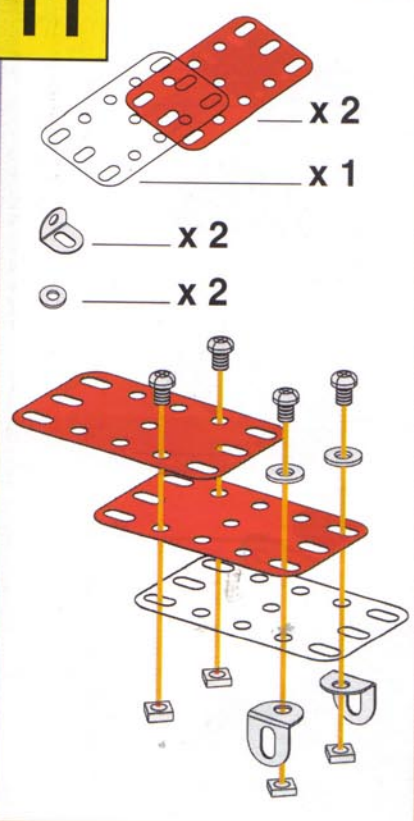
6

5 +







7**8****6 + 7 +****9****10****9 +**

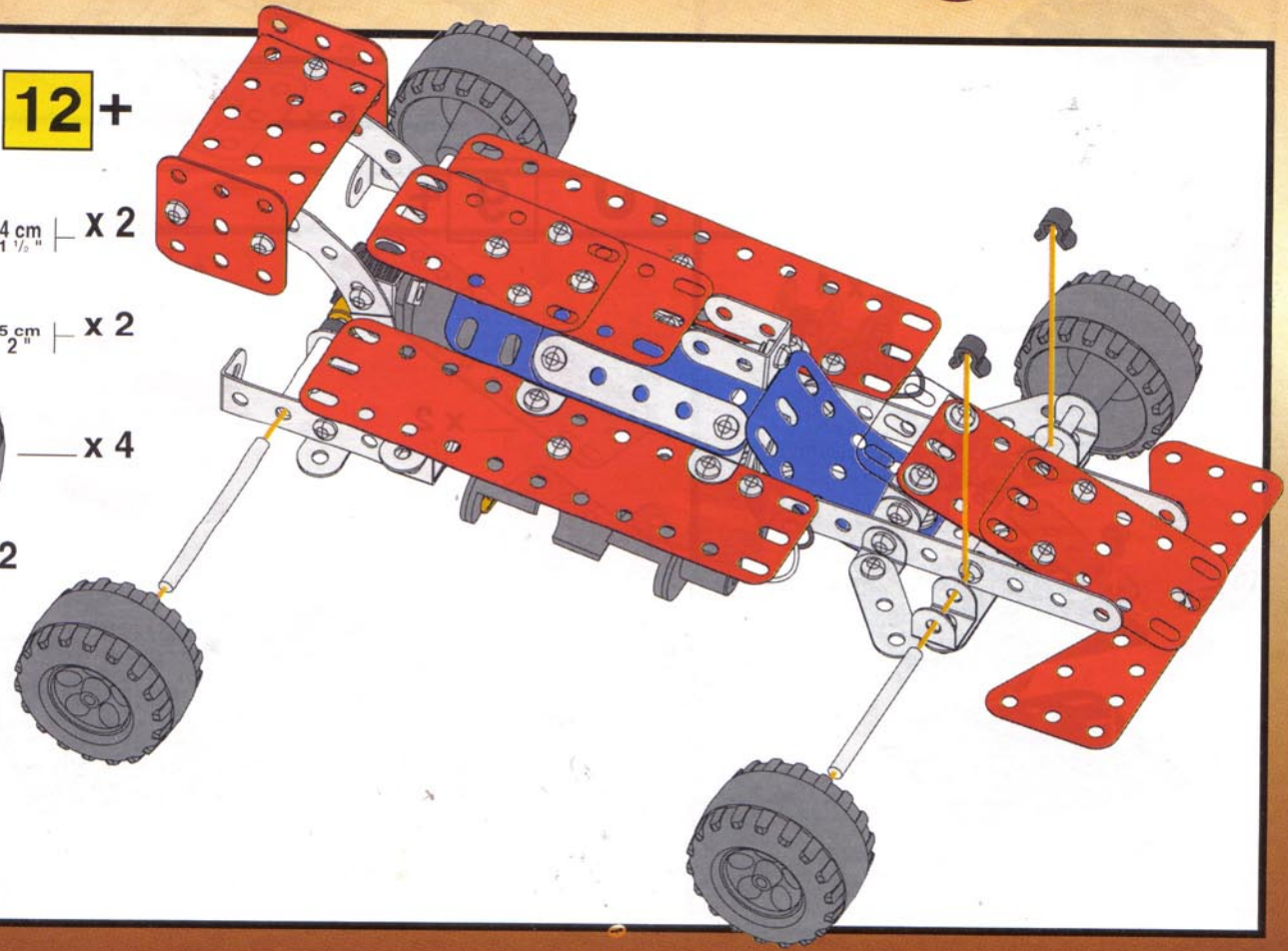
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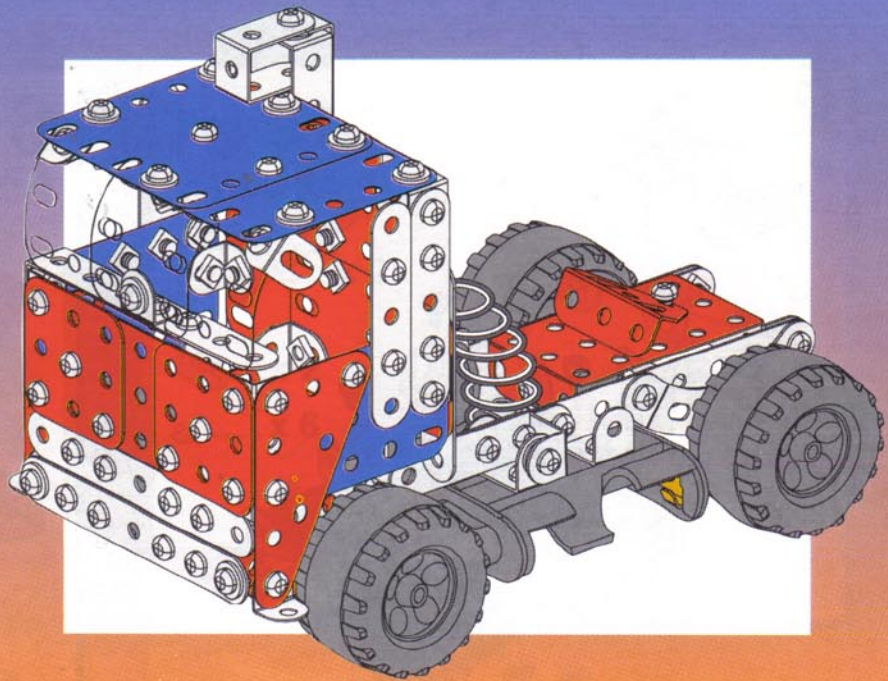
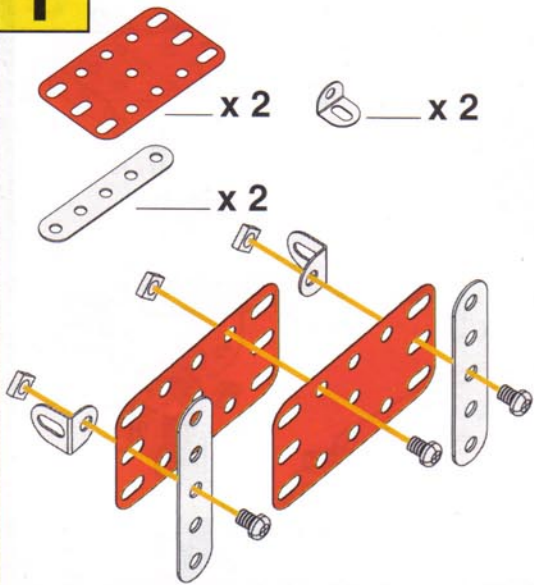
13

12 +

-  4 cm 1 1/2" x 2
-  5 cm 2" x 2
-  x 4
-  x 2

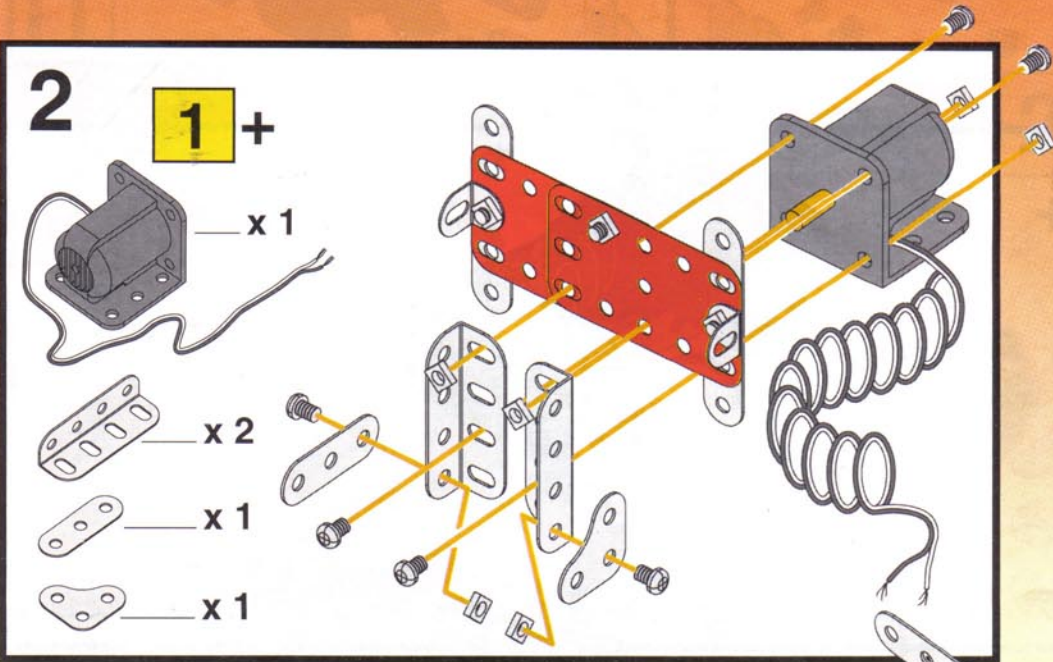


1

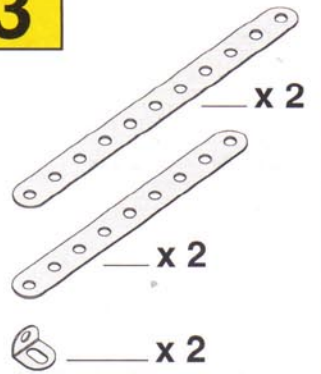


2

1 +

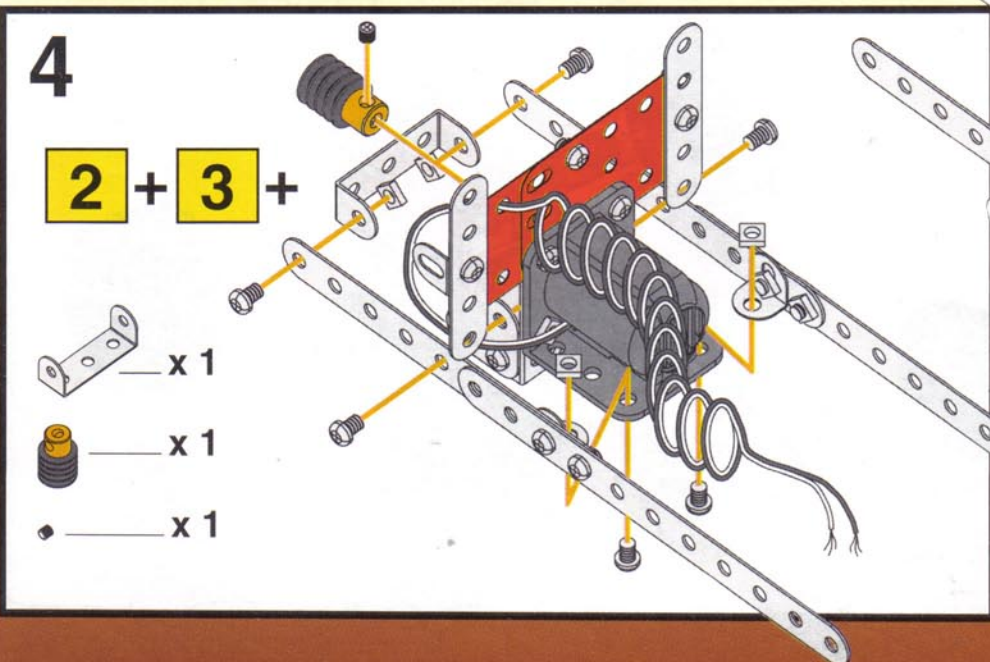


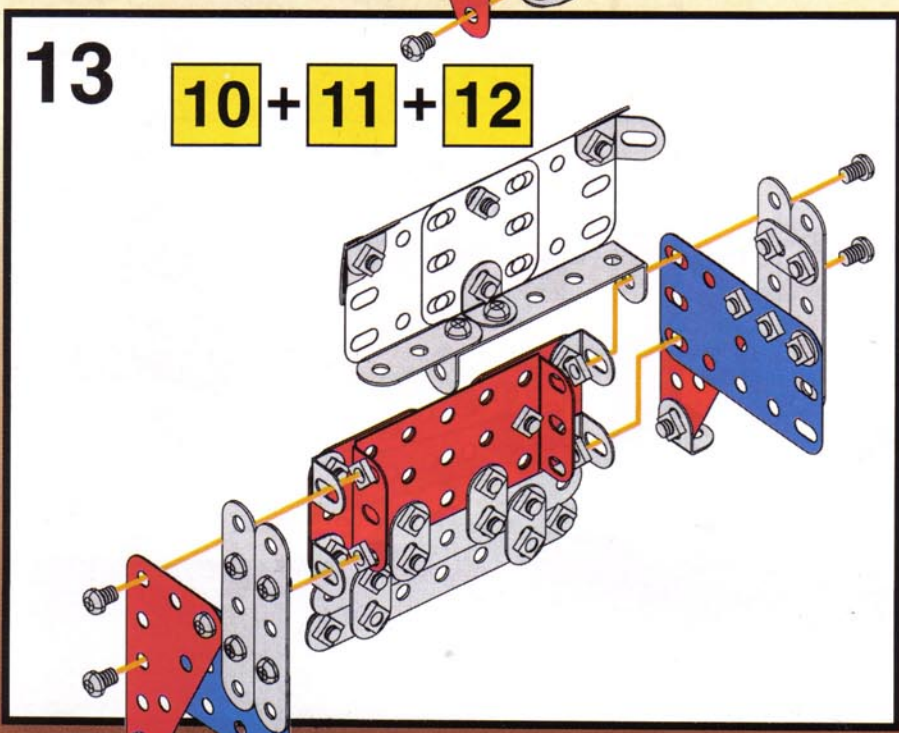
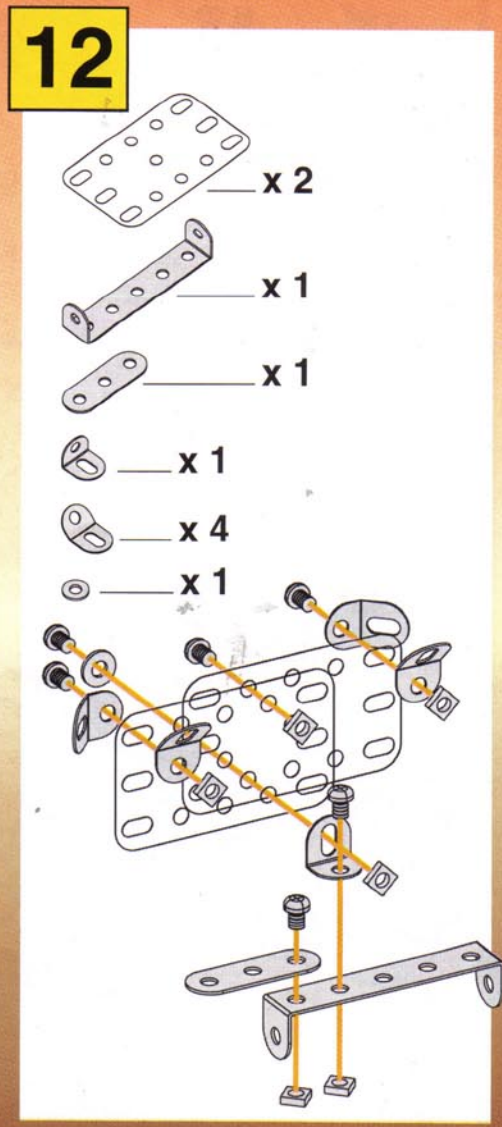
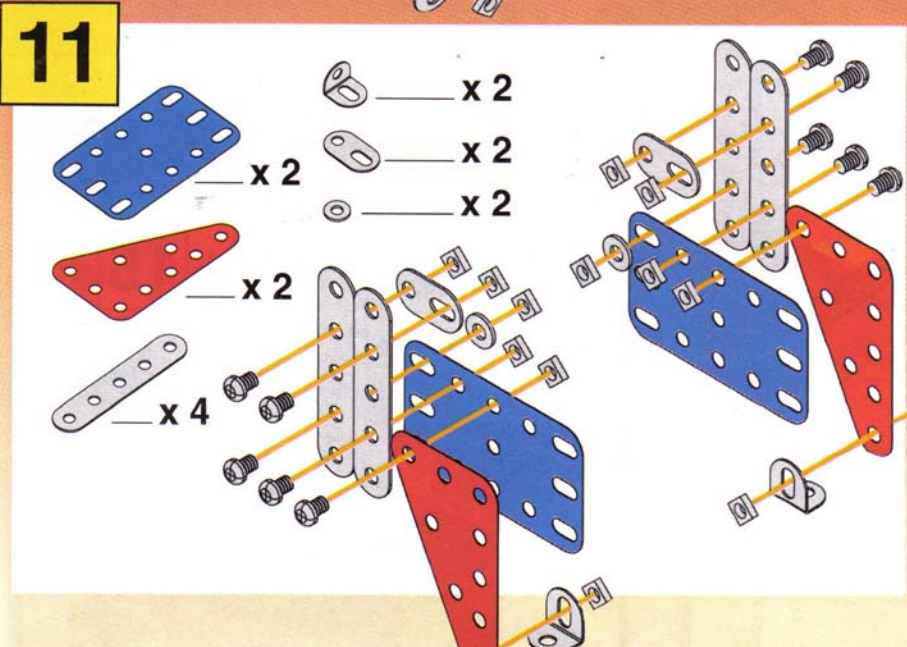
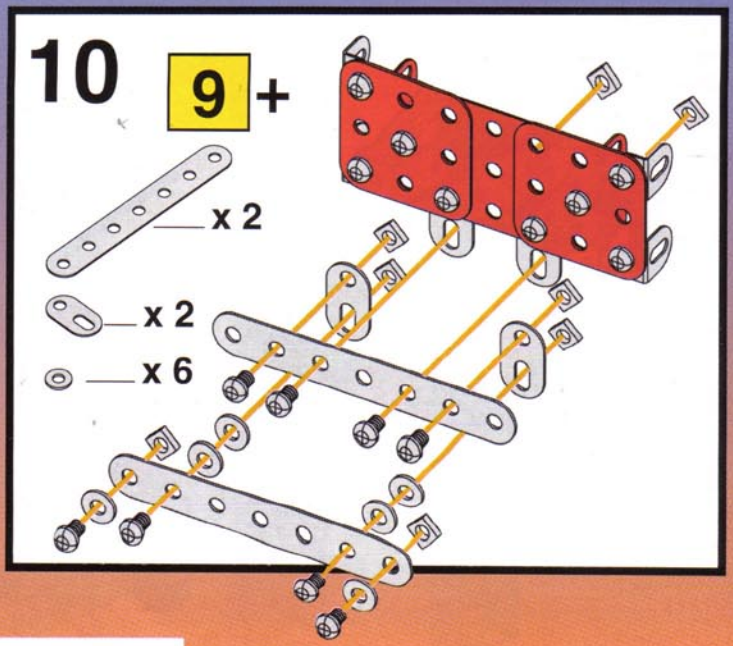
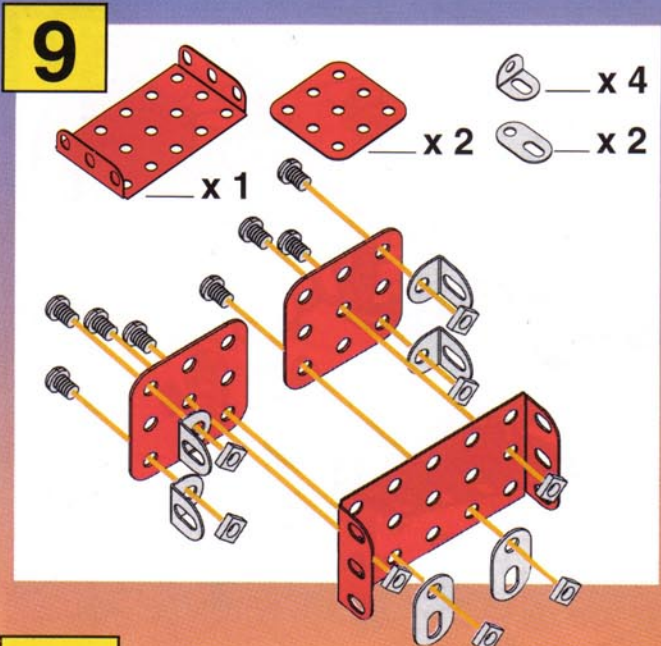
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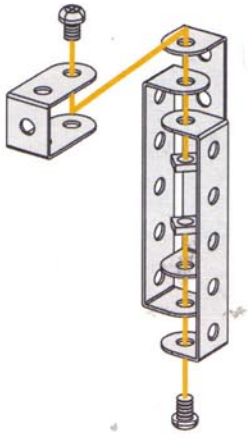
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2 + **3** +

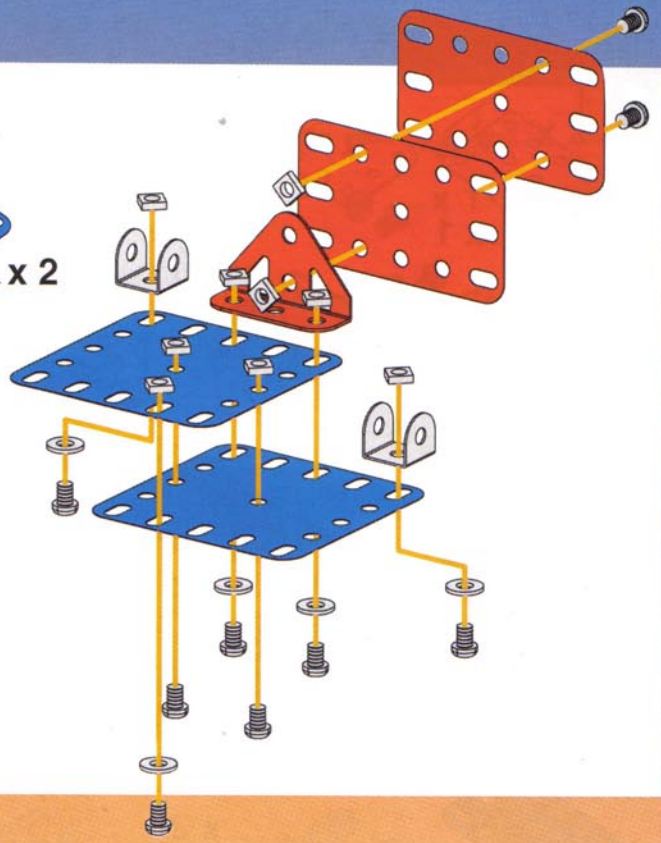
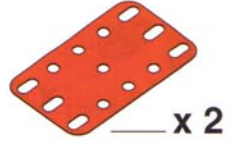
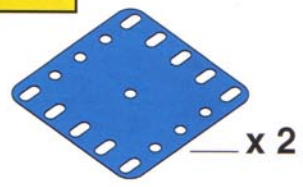




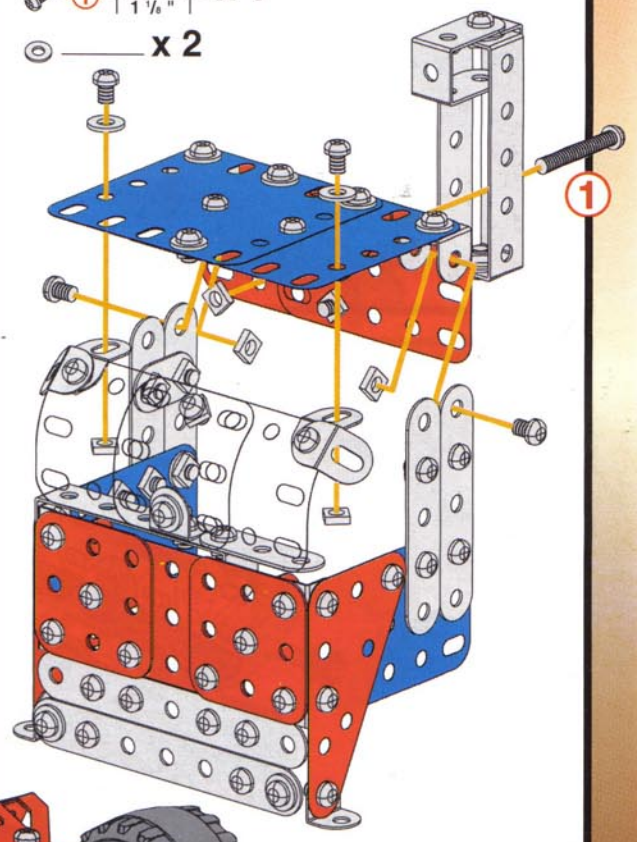
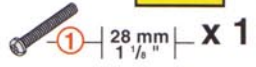
14



15

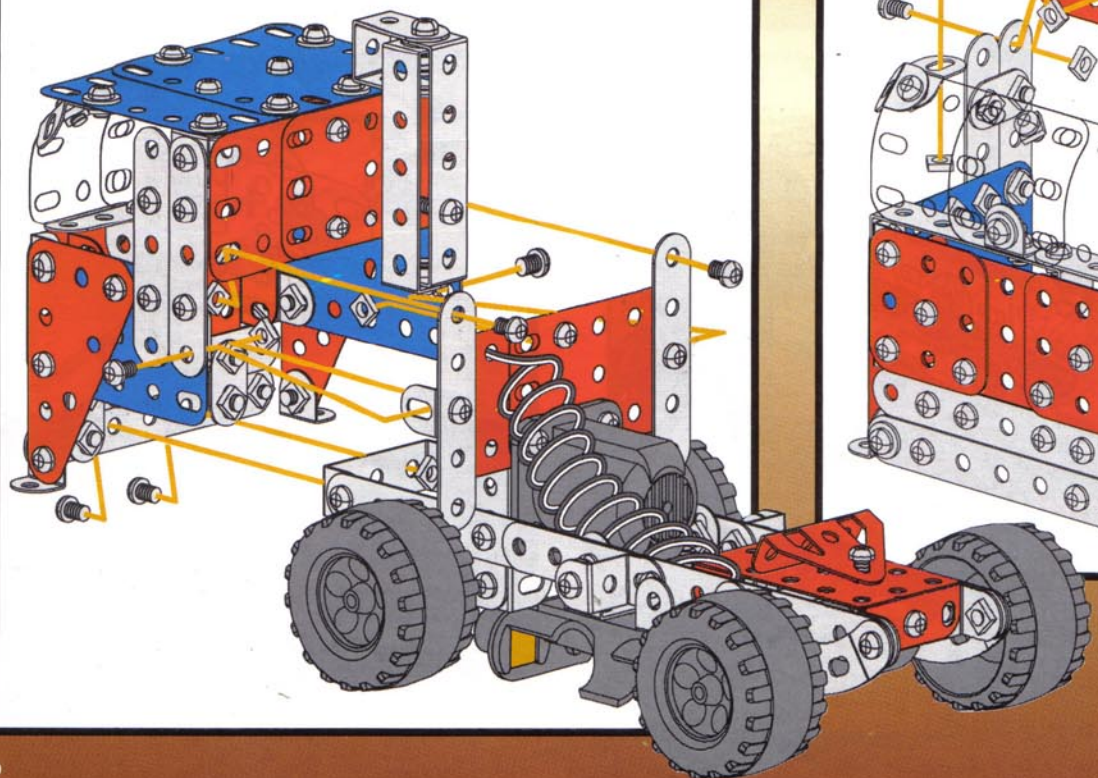


16 13 + 14 + 15 +

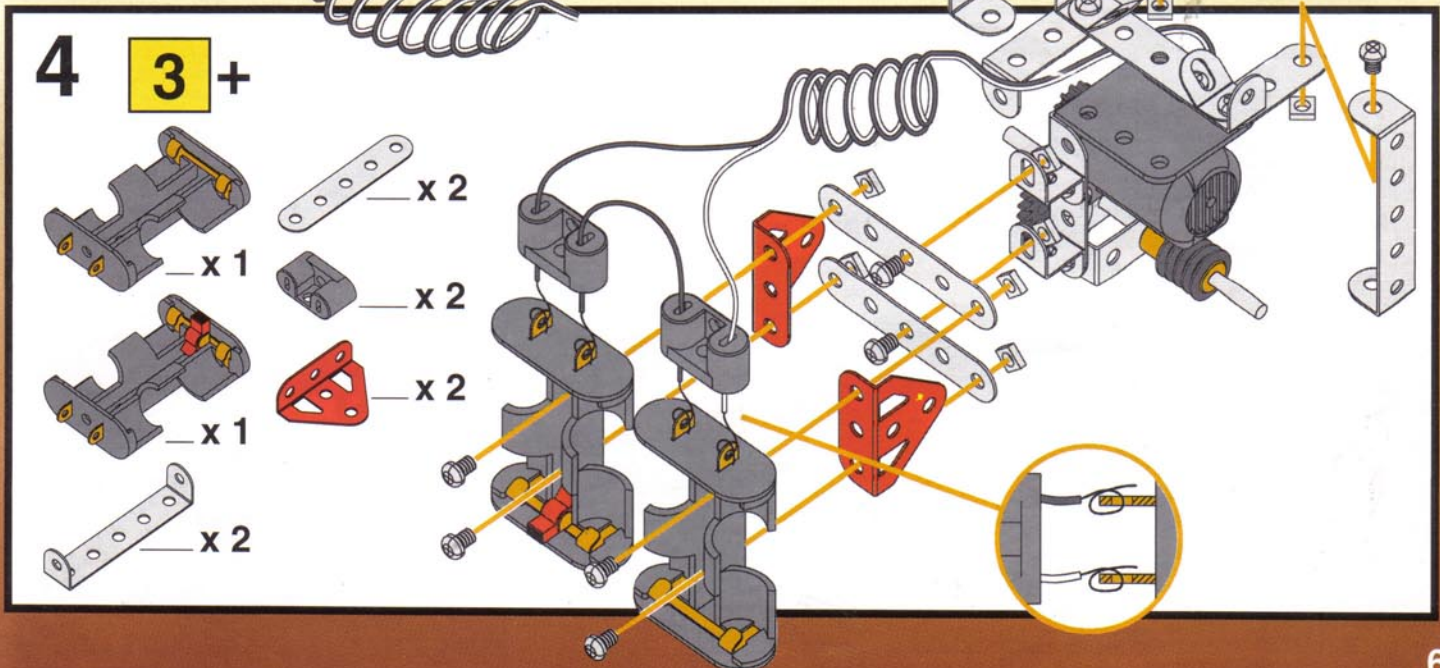
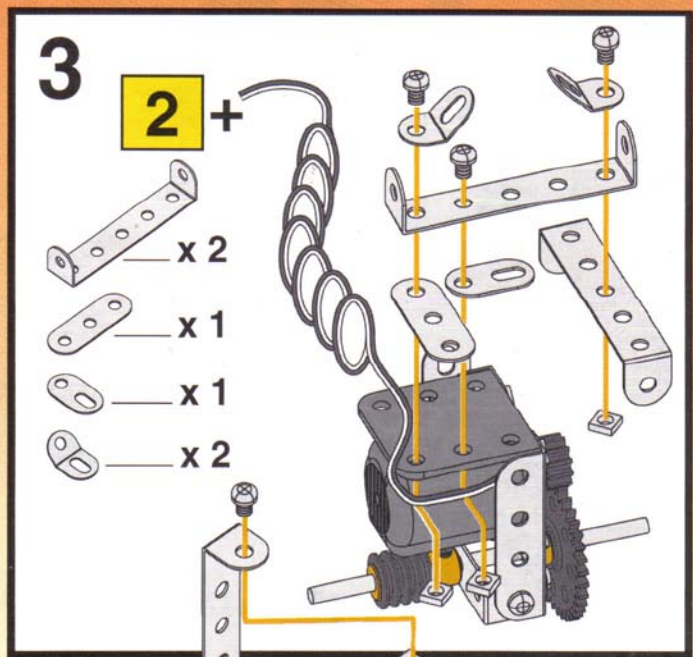
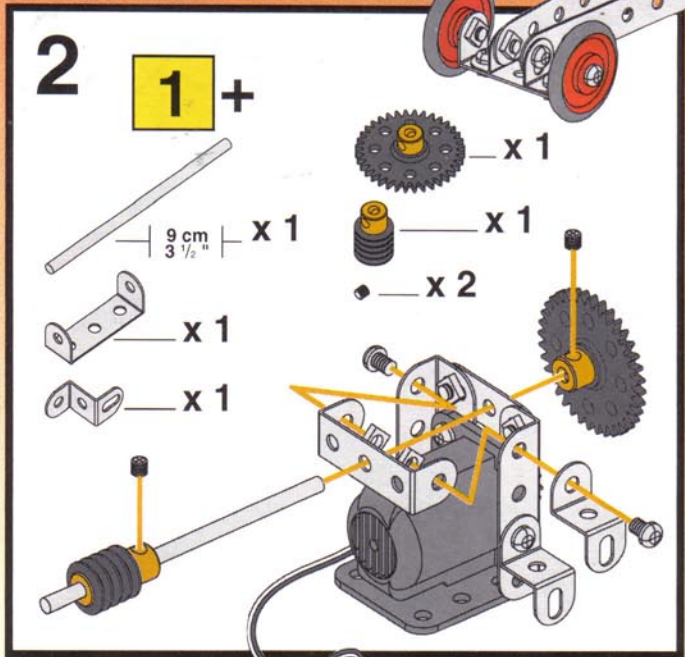
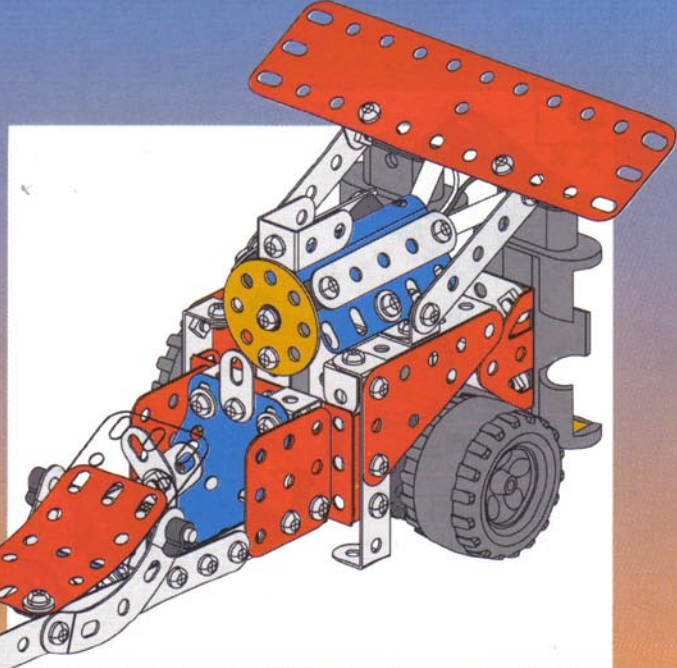
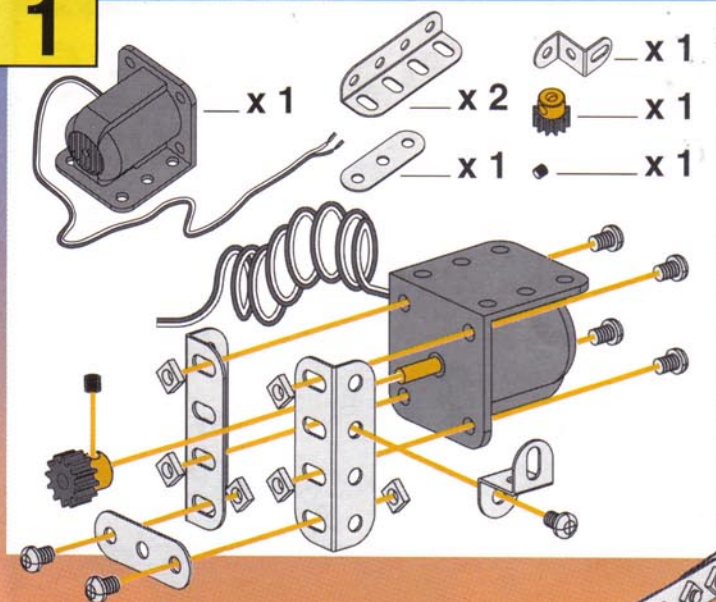


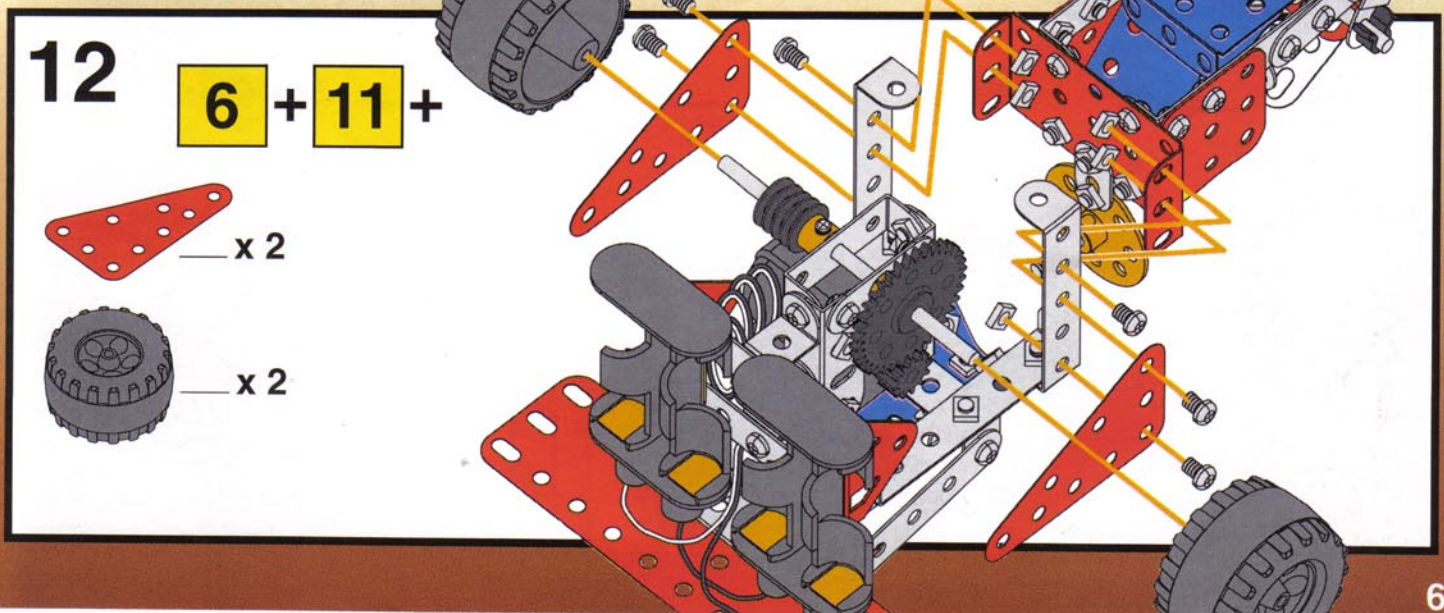
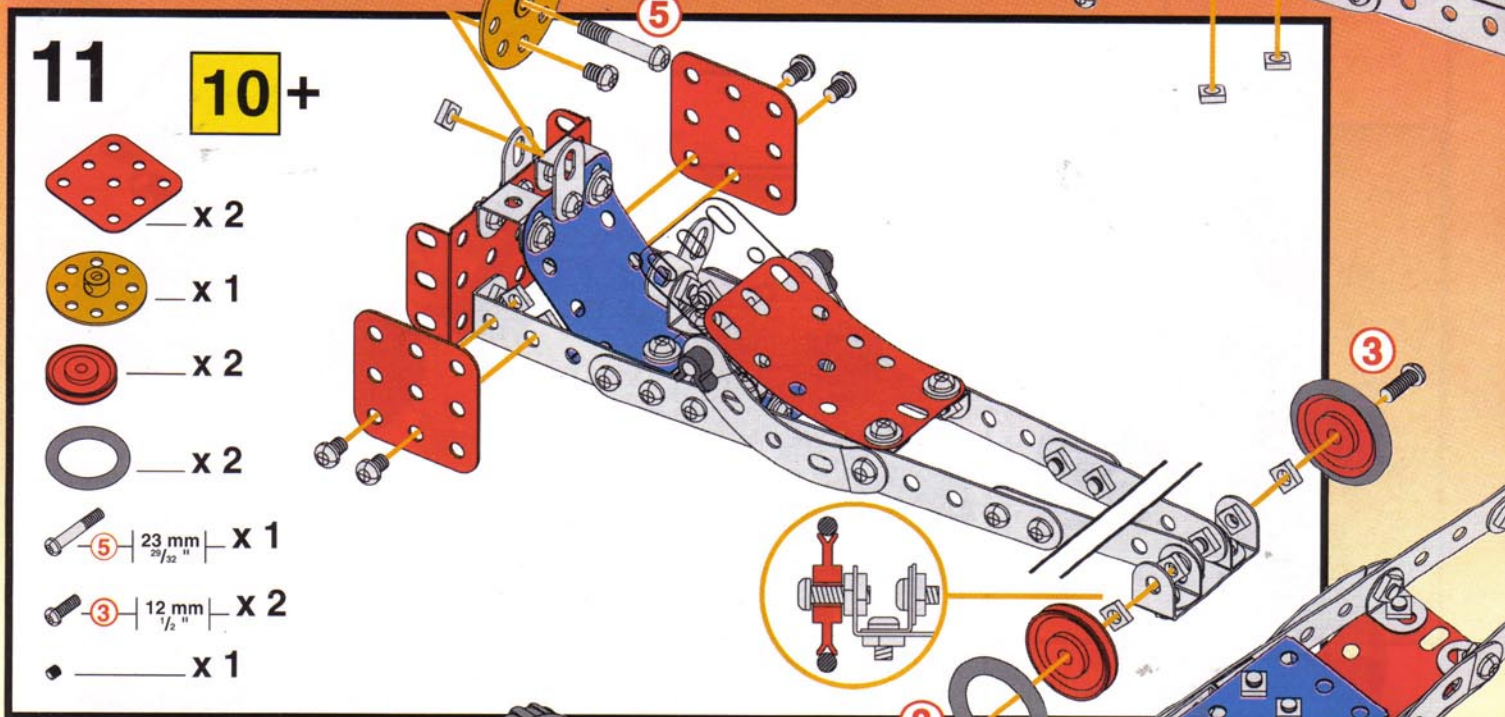
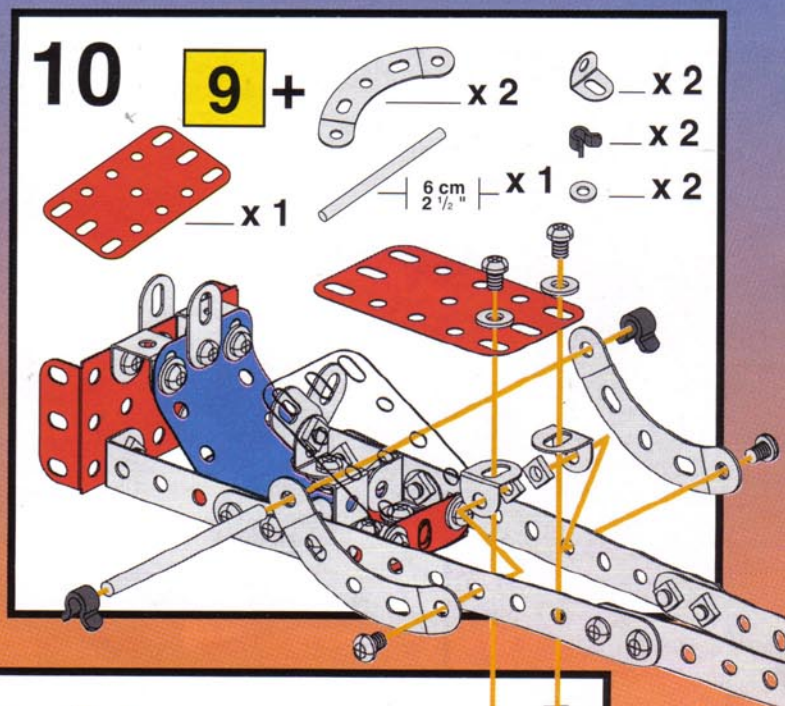
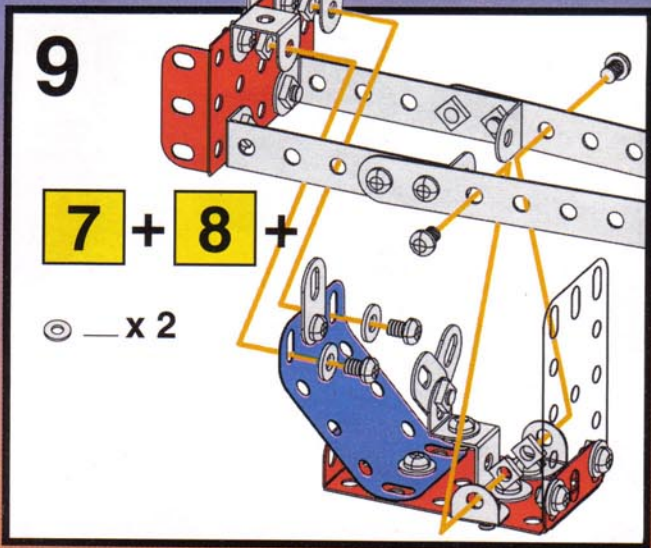
17

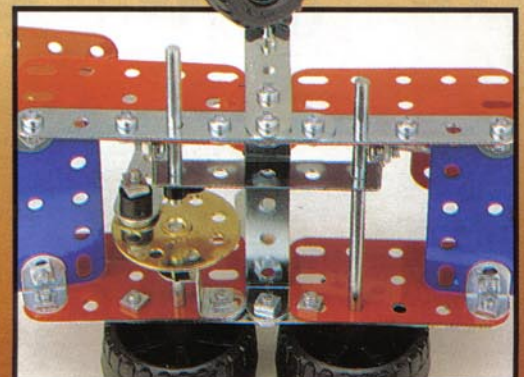
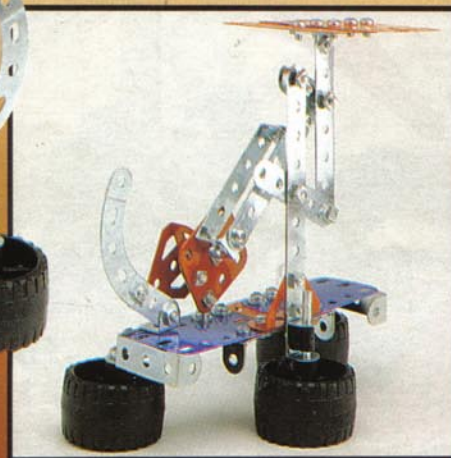
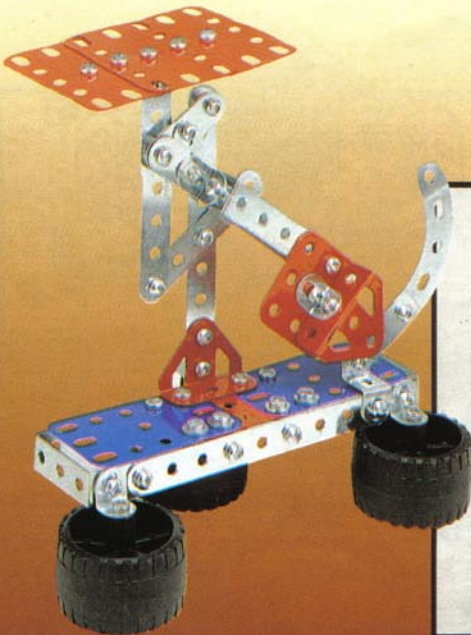
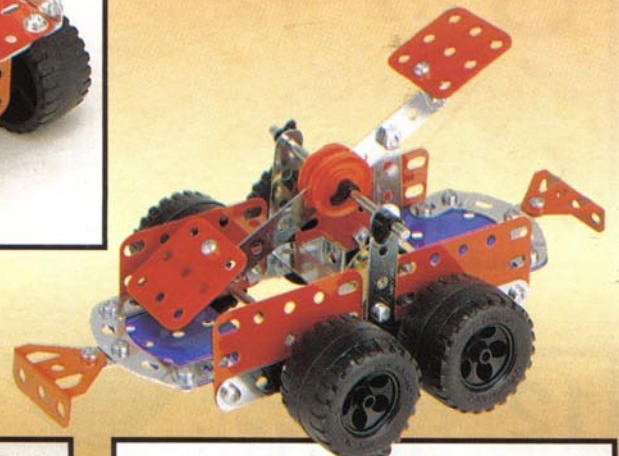
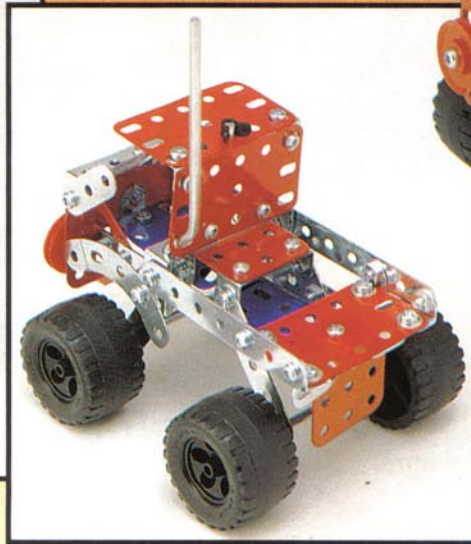
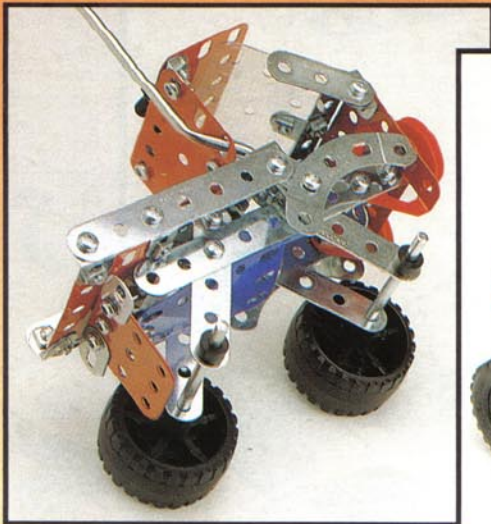
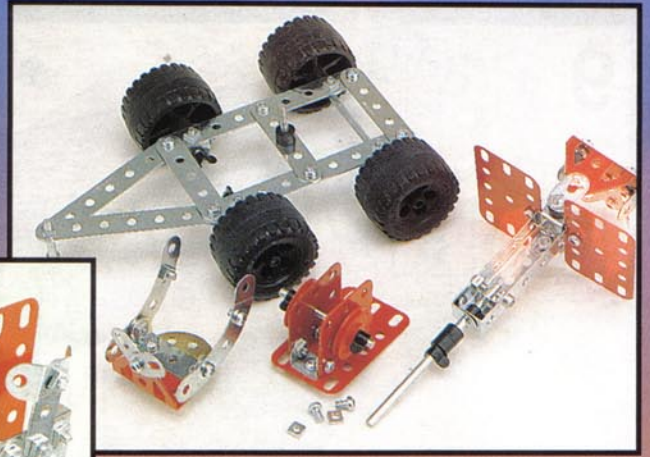
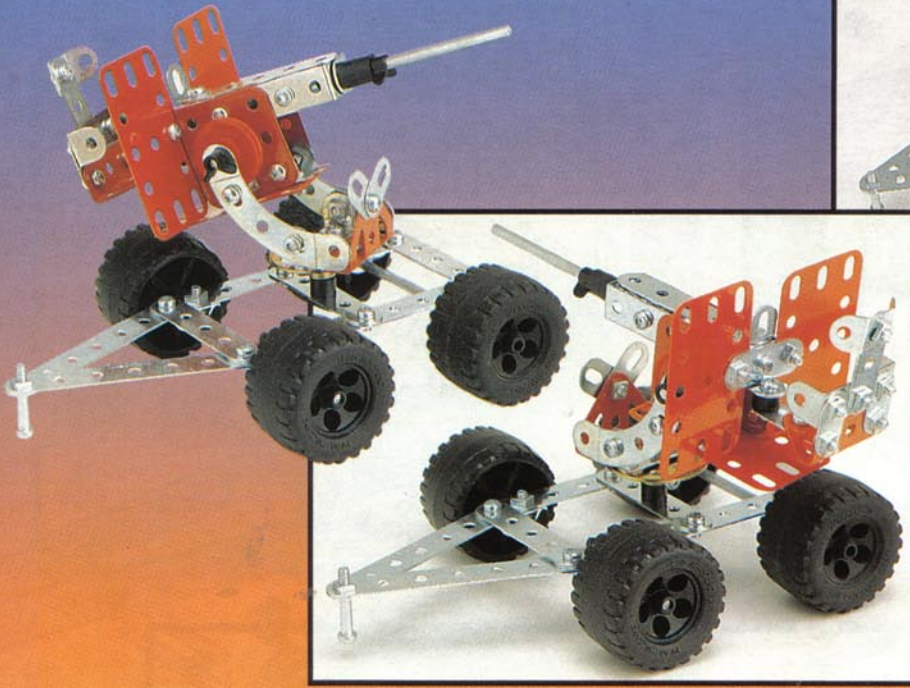
8 + 16

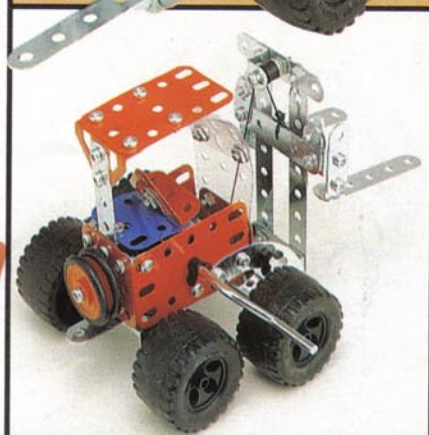
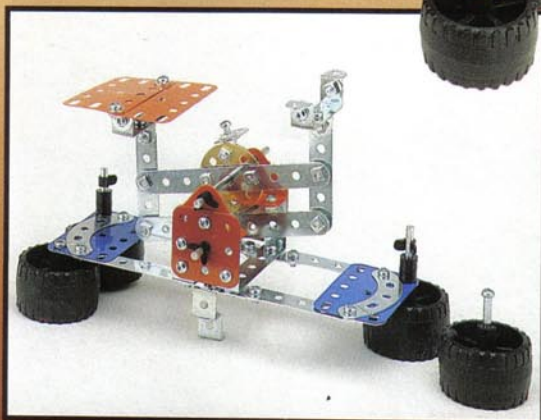
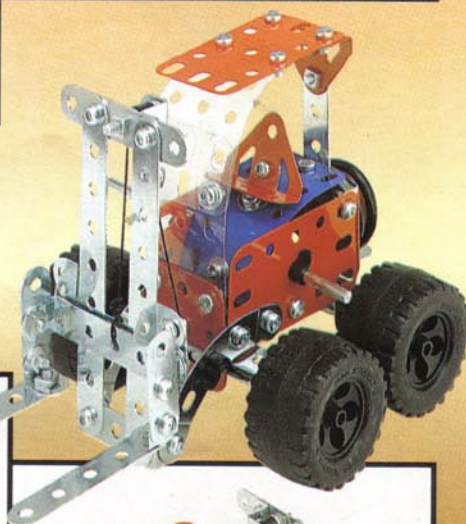
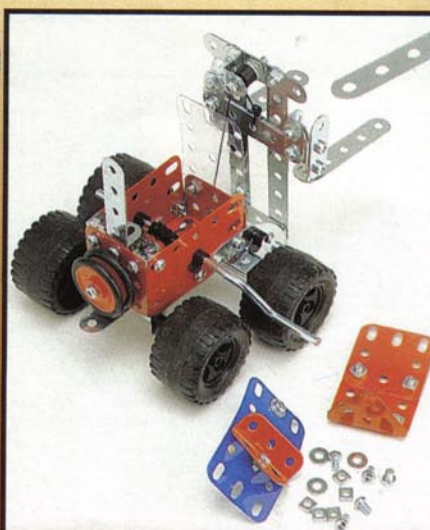
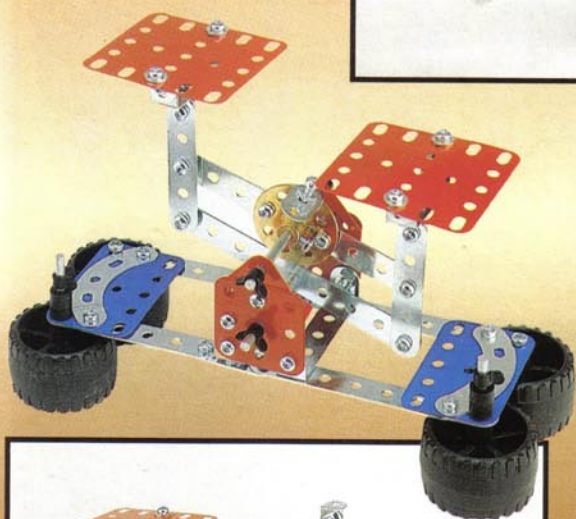
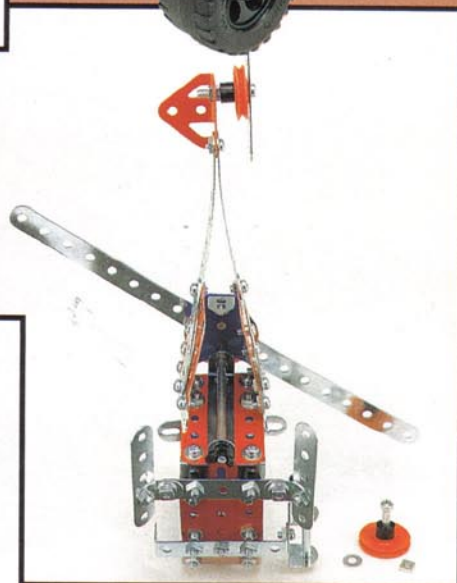
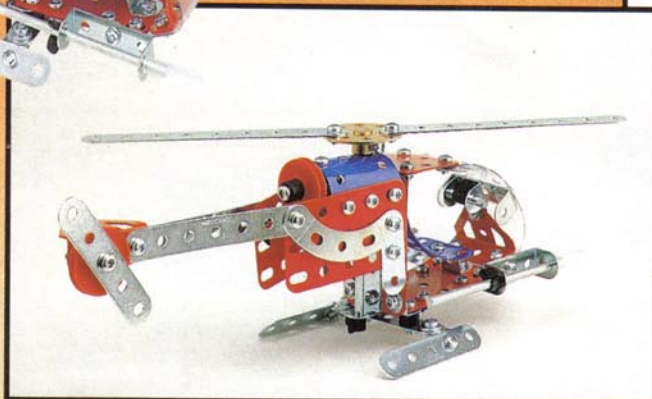
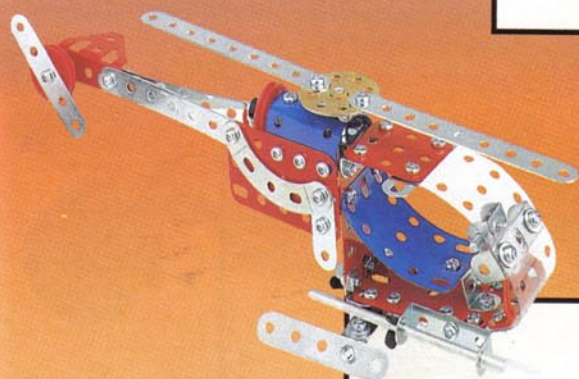
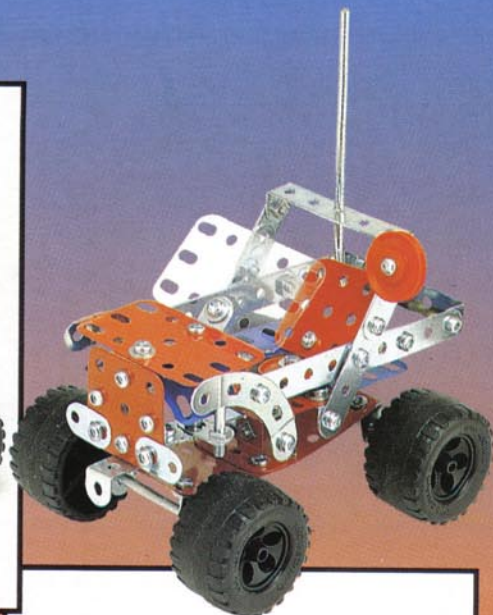
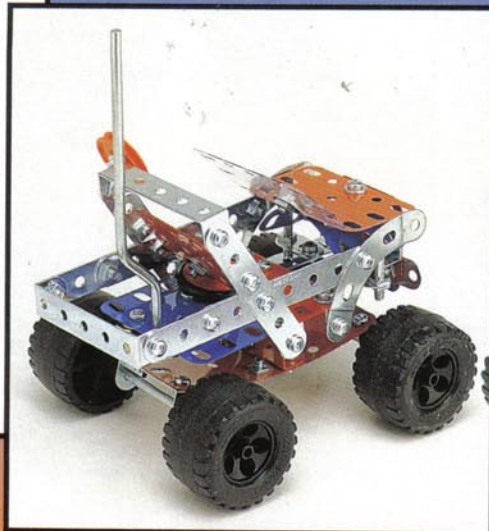
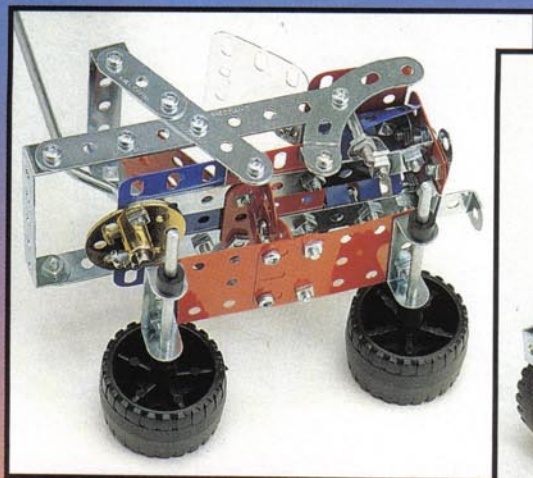


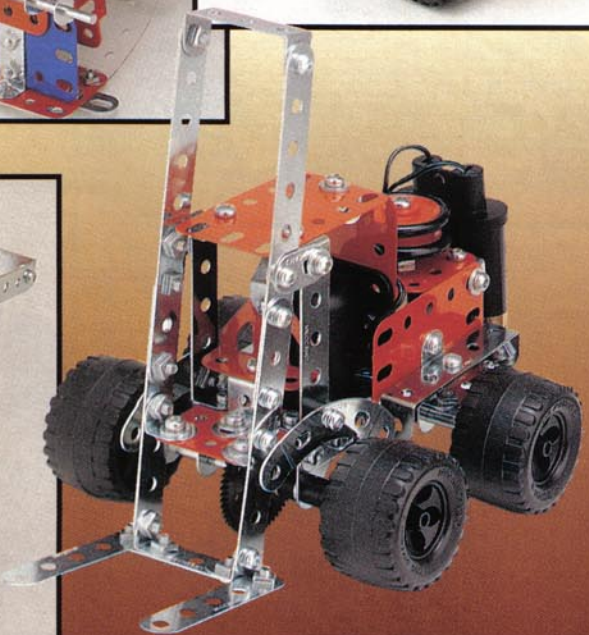
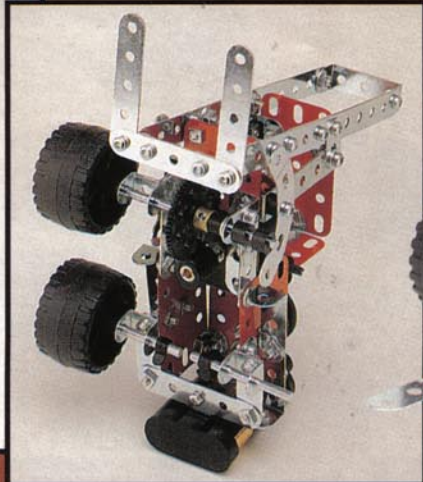
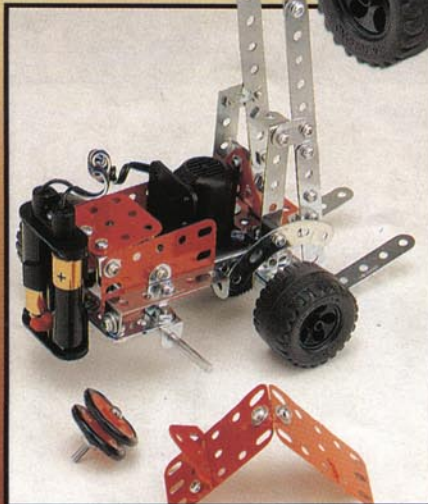
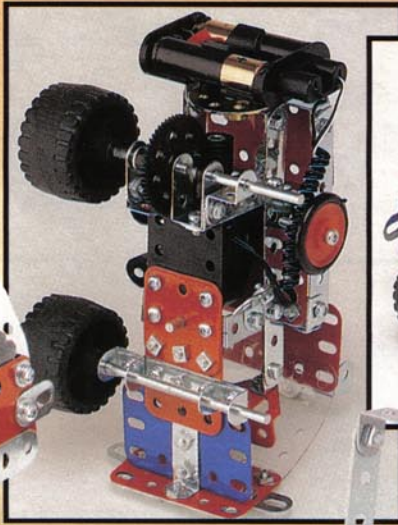
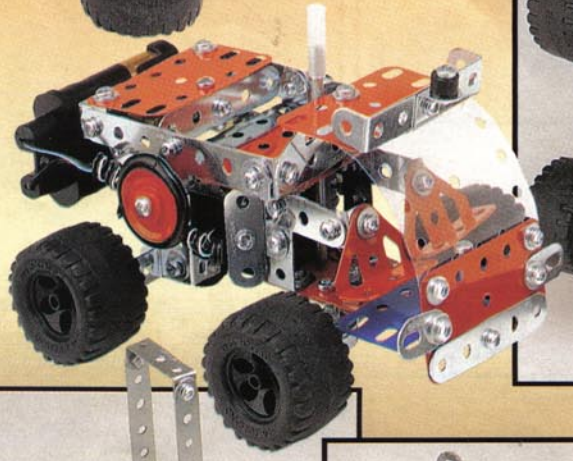
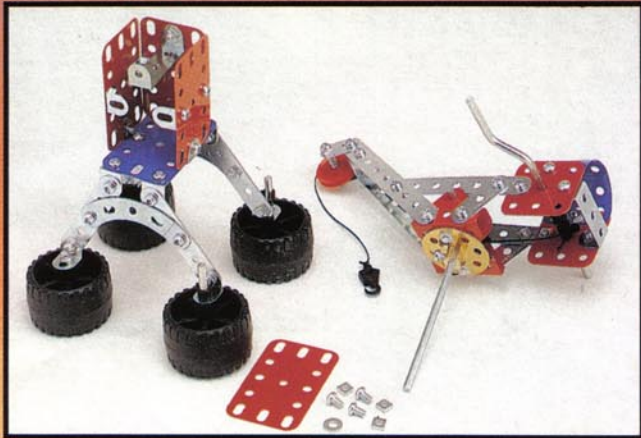
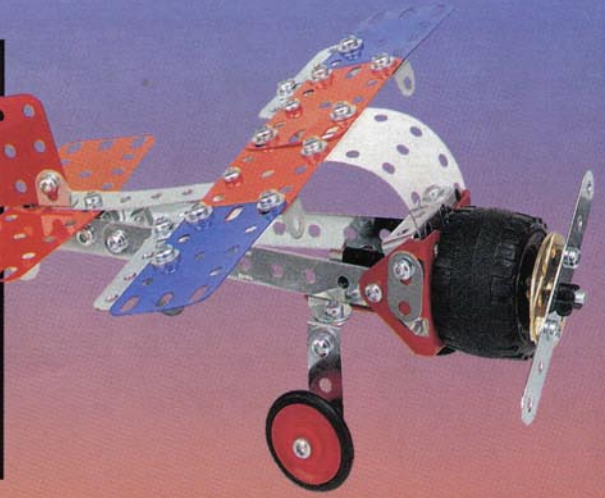
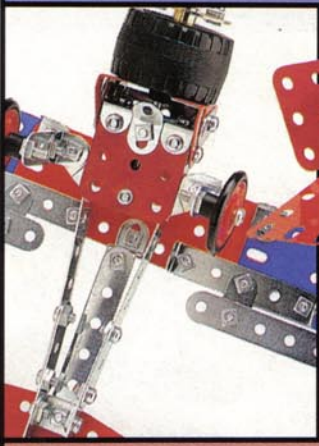
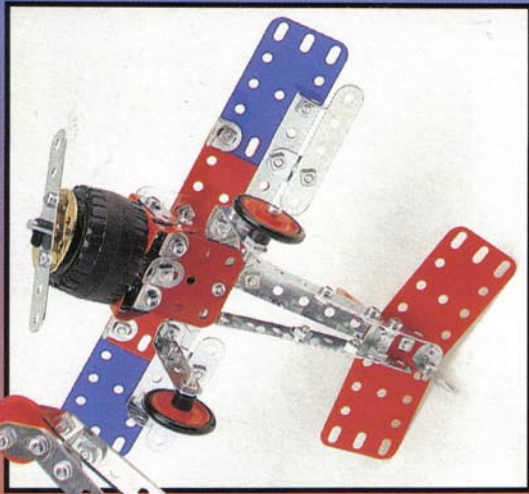
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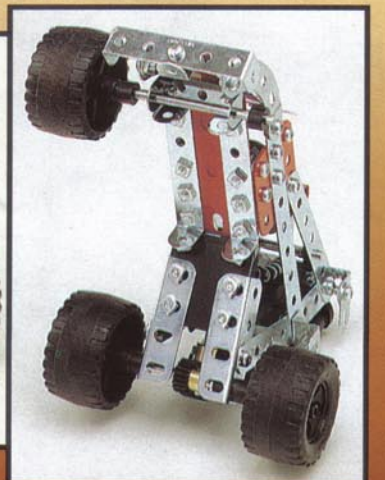
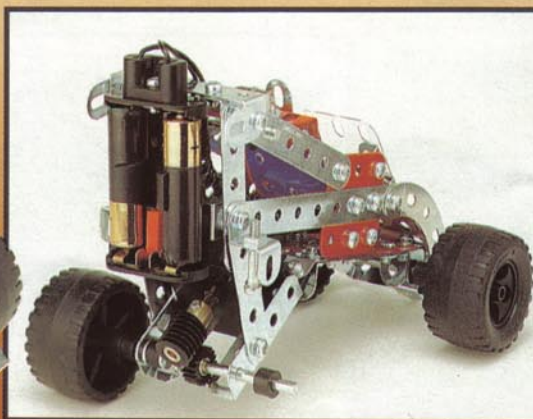
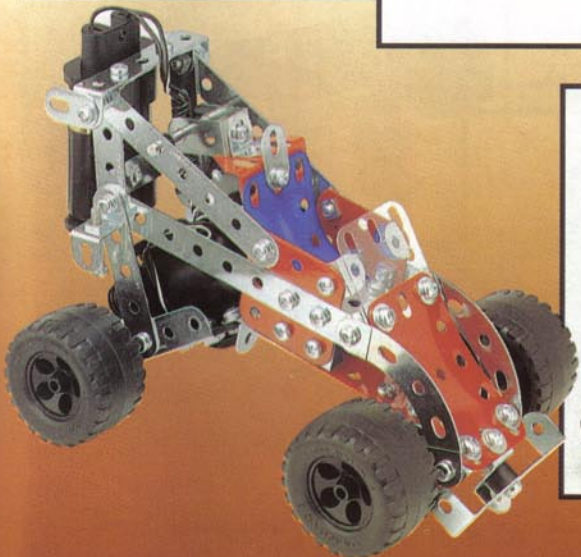
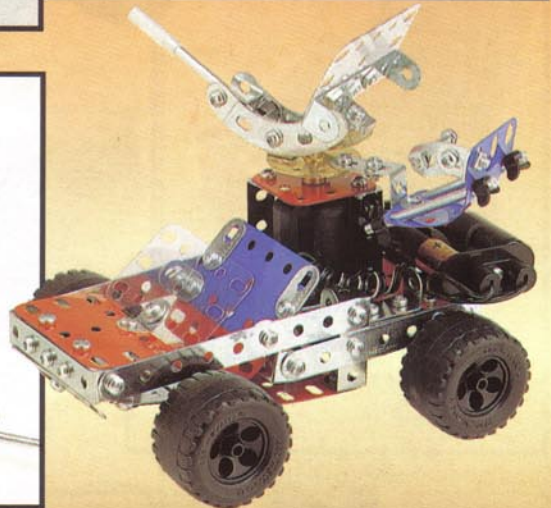
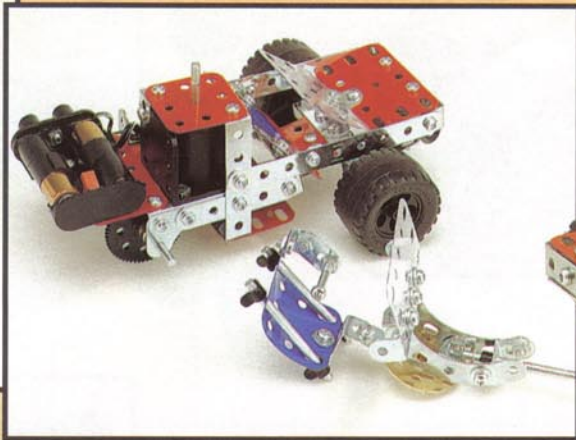
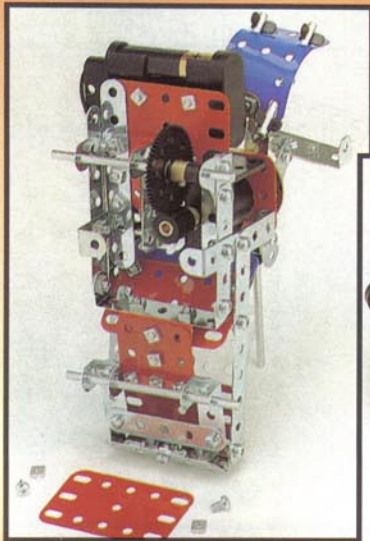
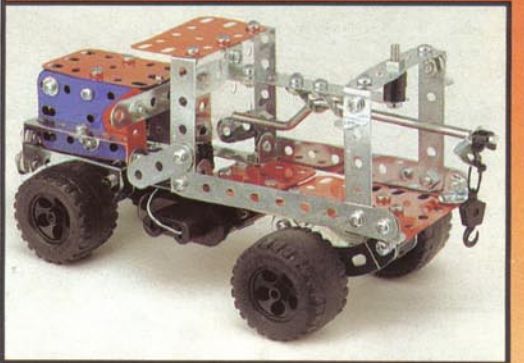
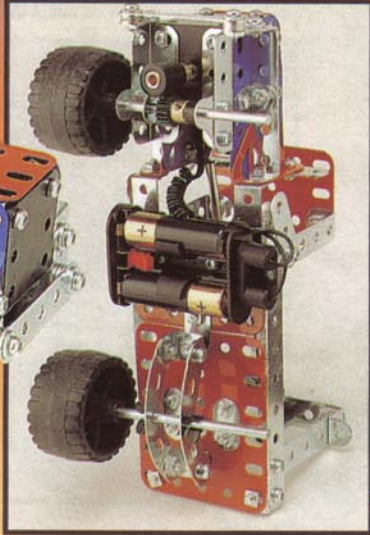
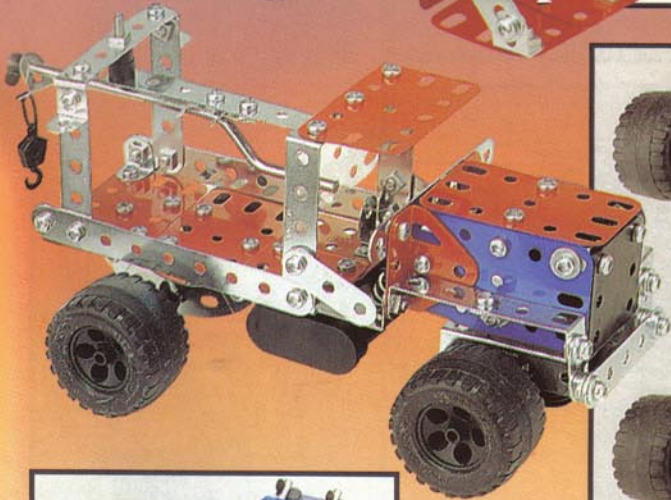
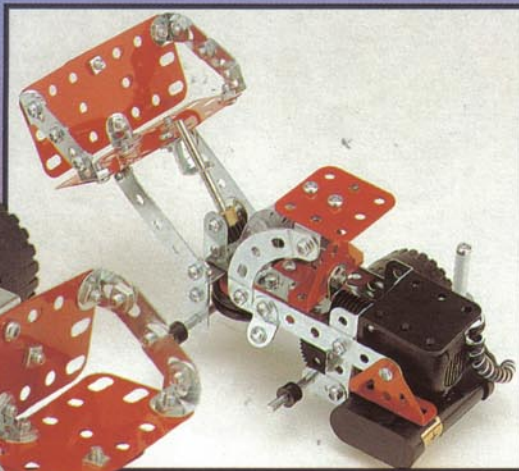
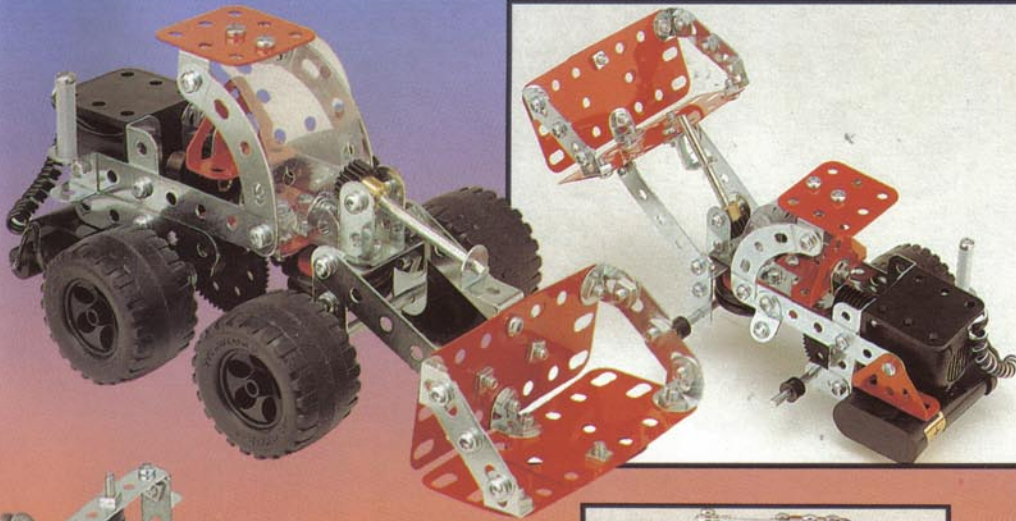


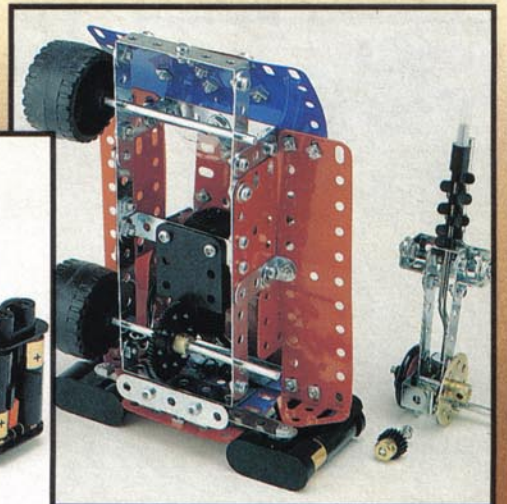
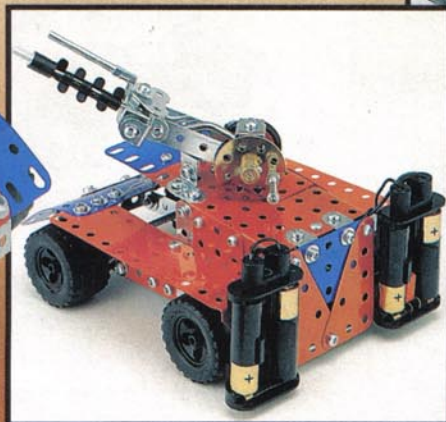
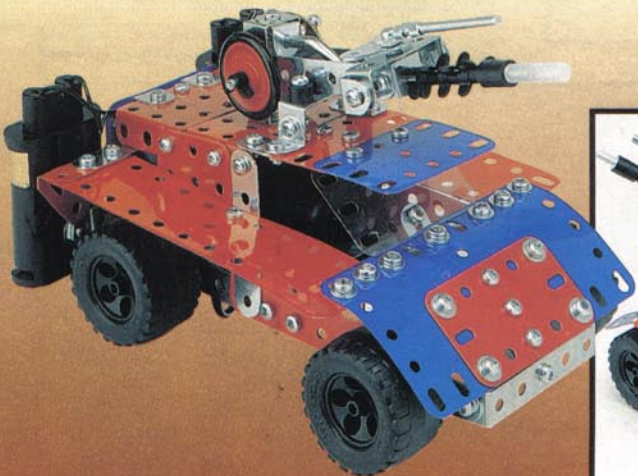
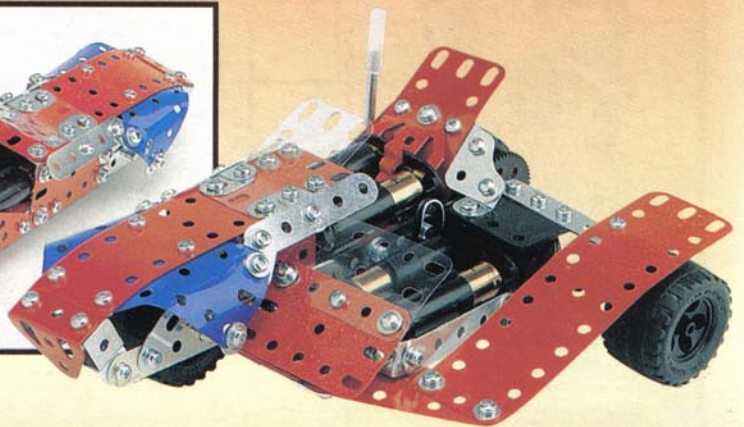
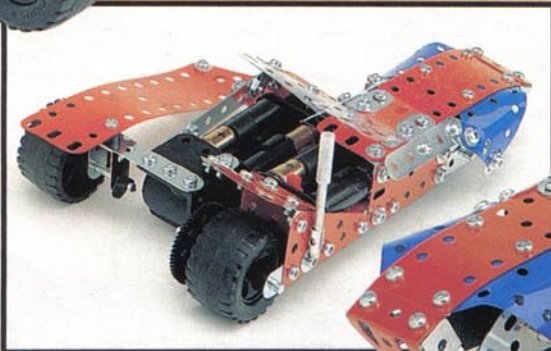
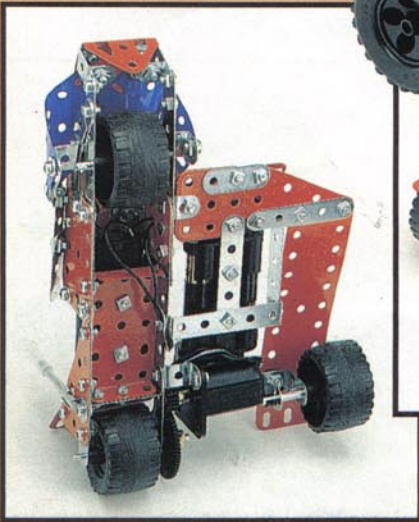
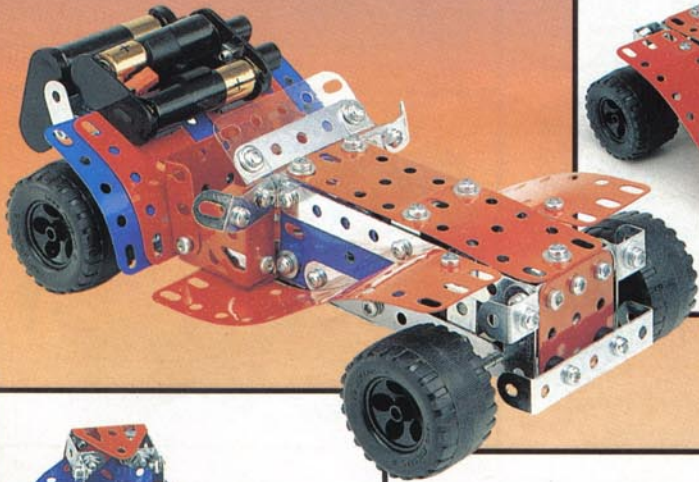
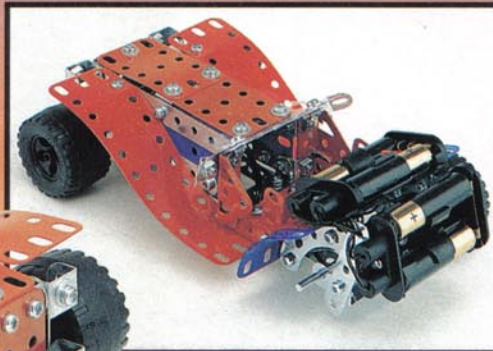
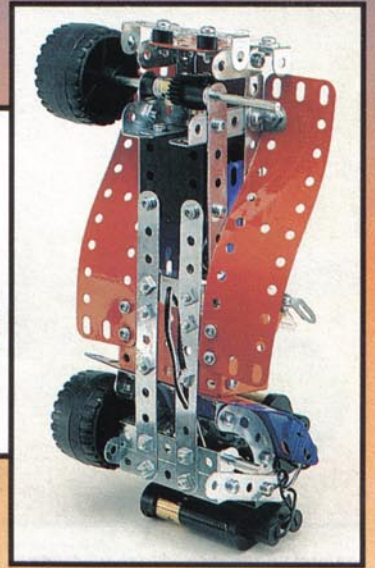
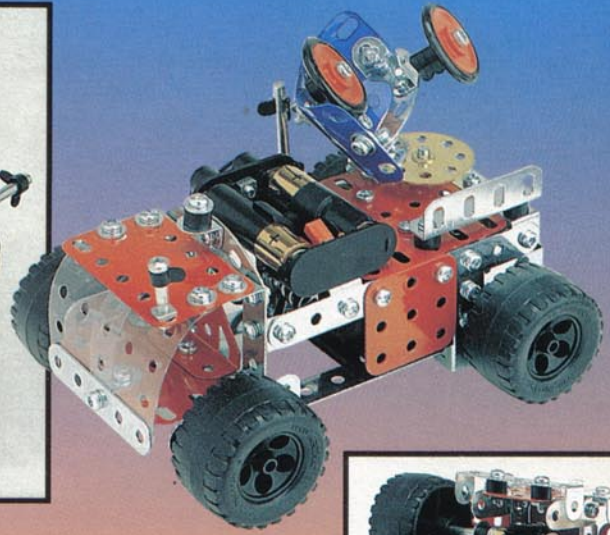
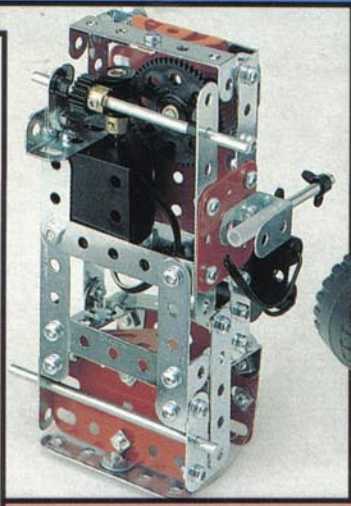
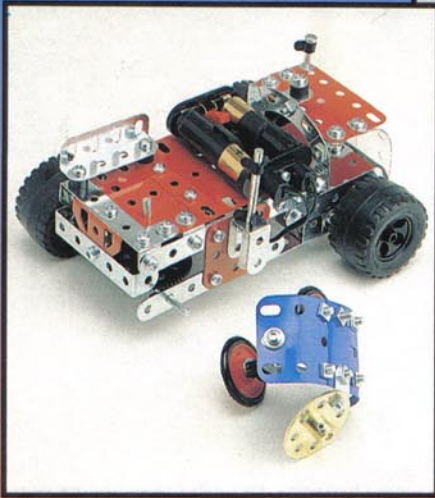


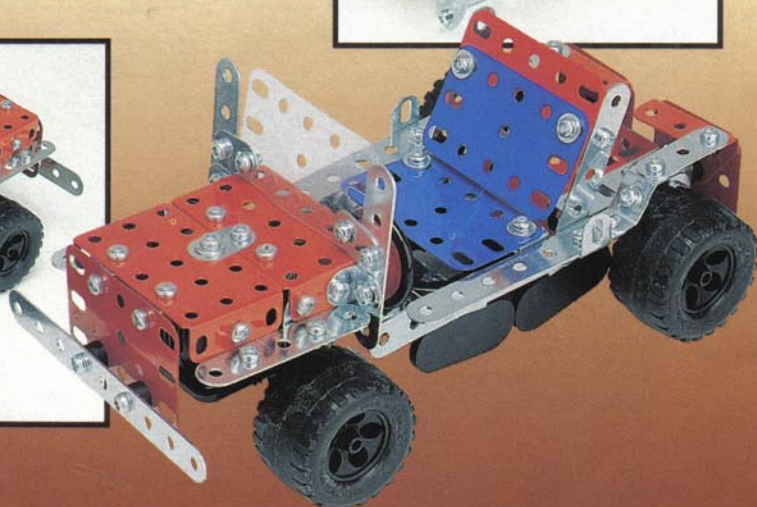
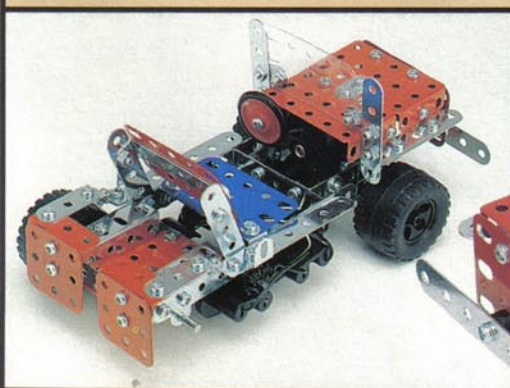
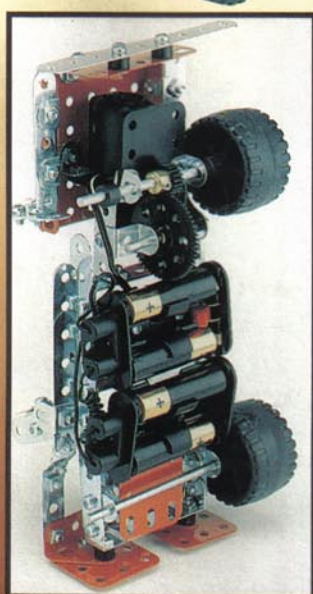
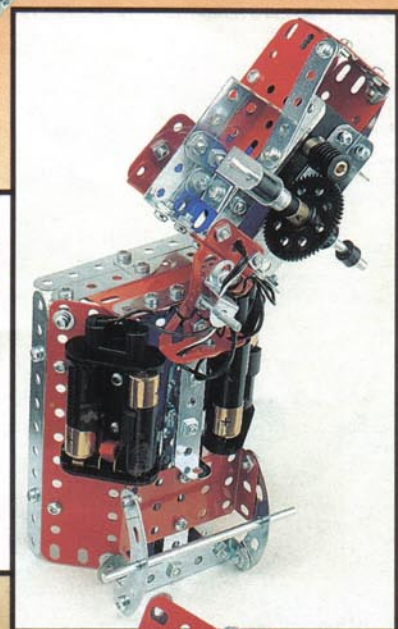
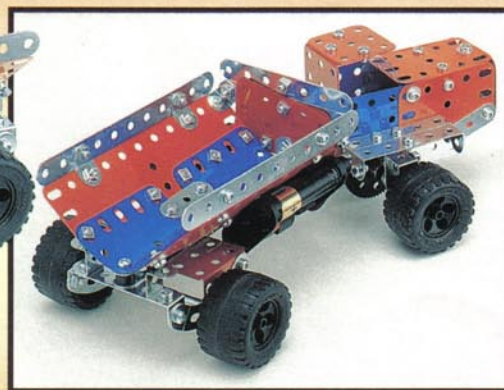
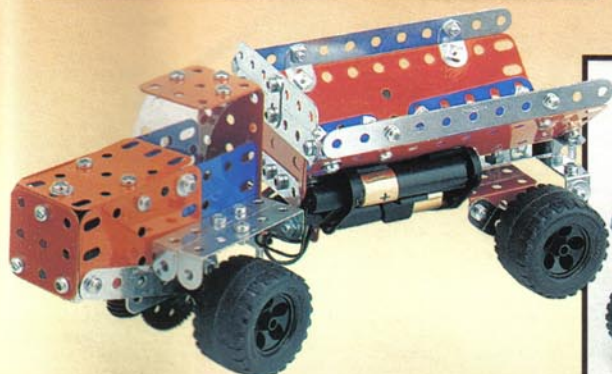
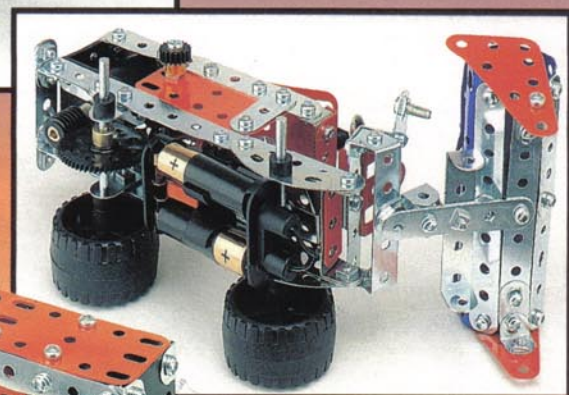
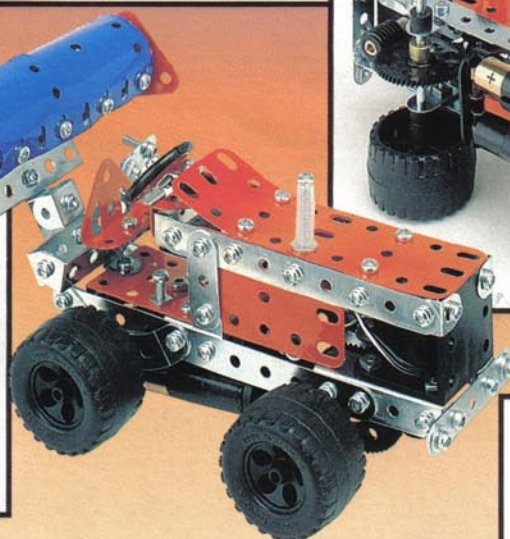
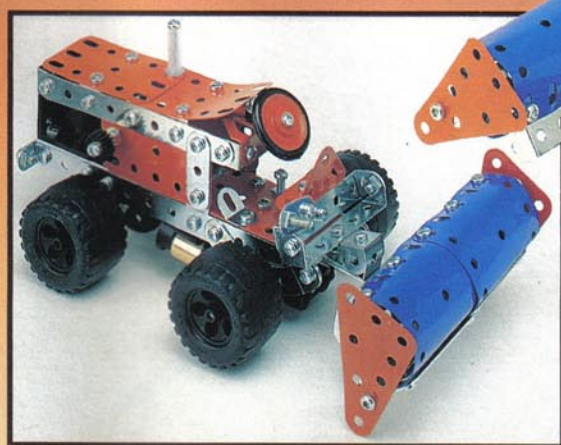
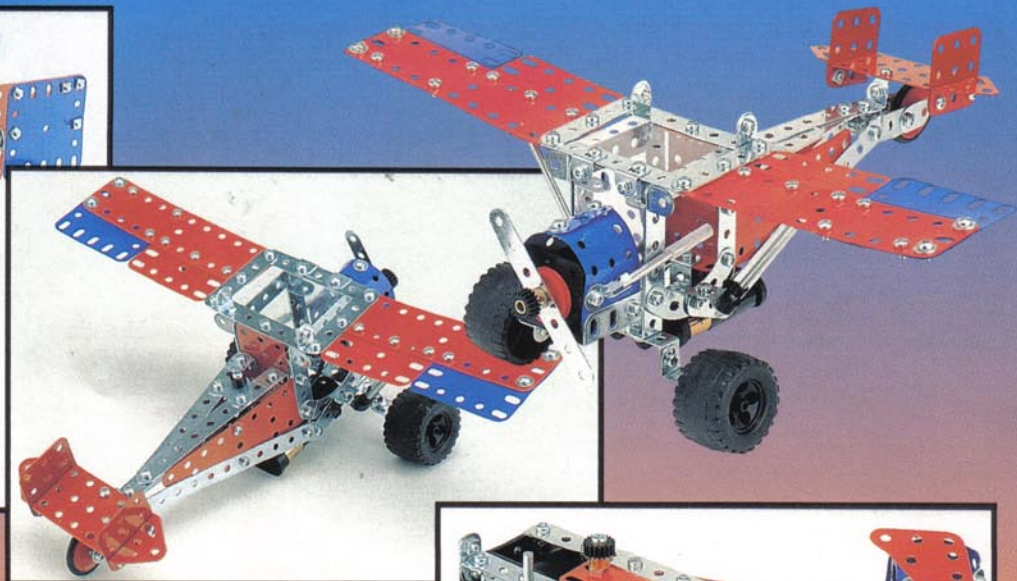
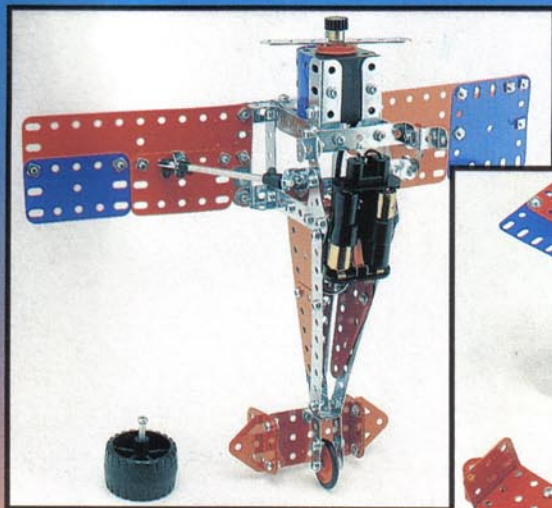












Perforated strip ± 9 holes
Bande ± 9 trous
Lochband
Banda ± 9 buchi
Långbalk ± 9 håls
Reijitetty lista

Double angle strips
Bandes coudées
Winckel-Lochband
Banda a gomito
Dubbel vinkeld balk
Kaksoiskulma lista

Curved strip
Bande incurvée
Gebogenes lochband
Banda ricurve
Svängd balk
Taivutettu lista

Angle girders ± 4 holes
Cornière ± 4 trous
Winkelseisen
Profilato a L ± 4 fori
Vinkelbalk ± 4 håls
Kulmarauta

Flat plates
Plaques rigides
Feste Platten
Piastra rigide
Halplatta, plät
Jäykkä levyjä

Semi-circular plate
Plaque semi-circulaire
Halbrund-Platten
Piastra semi-circular
Halvrund halplatta
Puoliympyrälevy

Flexible plates
Plaques flexibles
Flexible Platten
Piastra flessibili
Böjlig platta
Joustavia levyjä

Triang. flexible plate
Plaque flexible triangulaire
Flexible dreieck Platten
Piastra flessibili triangolare
Böjlig triangelplatta
Kolmion muotoisia joustavia levyjä

Curved plates
Plaques cintrées
Bogen-Platten
Piastra curve
U-formad platta
Taivutettuja levyjä

Plastic plates
Plaques plastiques
Kunststoff-Platten
Piastra di plastica
Halplatta, plast
Mudilevyjä

Flanged sector plate
Plaque à rebords
Winkelplatten
Piastra con bordi
Vinkelplatta
Kulmalevy

Braced girder
Longrine
Streben
Traversa
Dubbelbalk
Sik-sak lista

Trunnion
Embase triang. (coudée)
Winkeldreieck
Base triangolare a gomito
Vinkelreikant
Kolmion muotoinen kulmarauta

Fishplate
Support plat
Flachstütze
Supporto piatto
Stödjärn
Litteä tukirauto

Angle brackets 90° (135°)
Equerres 90° (135°)
90° (135°) Winkelseisen
Squadra 90° (135°)
Vinkeljärn, 90°
Kulmarautoja 90° (135°)

Angle brackets 90° (135°)
Equerres 90° (135°)
90° (135°) Winkelseisen
Squadra 90° (135°)
Vinkeljärn, 90°
Kulmarautoja 90° (135°)

Element ± 9 huller
Varilla ± 9 agojeros
Geperfeerde strook ± 9 gaten
Peça perfurada ± 9 furos
Διάτρητο μακρόστενο στοιχείο ± 9 τρύπες
穴あき (±) プレート

Vinkelement
Varillas dobladas con codos
Dubbele hoekstroken
Peças de cantos duplos
Διάτρητο μακρόστενο στοιχείο με δύο γωνίες
凹形穴あきプレート

Bojot element
Varilla curvada
Gebogen strook
Peça curva
Διάτρητο καμπυλωτό στοιχείο
バナナ形プレート

Hjørneelement ± 4 huller
Canto ± 4 agujeros
Hoekbalkje ± 4 gaten
Canto ± 4 furos
Γωνία με ± 4 τρύπες
穴あき (±4) アングル

Faste plader
Placas rígidas
Vlakke platen
Placas rígidas
Ακαμπτές πλάκες
プレート (硬い)

Halvcirkelplade
Placa semicircular
Halfcirkelplaat
Placa semi-circular
Ημικυκλικές πλάκες
半円プレート

Bojelige plader
Placas flexibles
Flexibele platen
Placas flexíveis
Ευκαμπτές πλάκες
プレート (柔らかい)

Trokantet, bojelig plade
Placa flexible y triangular
Flexibele driehoekige plaat
Placa flexível triangular
Ευκαμπτη τριγωνική πλάκα
三角プレート (柔らかい)

Bueplader
Placas en forma de bodega
U-vomige boogplaten
Placas abauladas
Κουρμπιασμένες πλάκες
アーチ形プレート

Platikplader
Placas de plastico
Plastic platen
Placas de plastico
Πλαστικές πλάκες
πλασチックプレート

Kantplade
Placa con rebordes
Flensplaat
Placa con rebordes
Πλάκα με ανασηκωμένα άκρα
縁付きプレート

Fundamentbjælke
Pieza con zig-zag
Versterkte steunbalk
Peça com zig-zag
Τροβέροο
つなぎ材

Trekantet fodplade (med vinkel)
Base triangular con codo
Driehoek voetstuk
Base triangular con canto
Τριγωνική βάση (με γωνία)
三角座 (縁付き)

Fladstøtte
Soporte llano
Steunstuk
Soporte plano
Επίπεδο στοιχείο στηρίξης
サポート板



Double brackets
Supports doubles
Doppelstütze
Supporti doppi
Lagerstöd, dubbelt
Kaksoistuet

Reversed angle bracket
Equerre renversée
Doppelwinkel
Squadra capovolta
Dubbelwinkel
Kaksoiskulma

Double bent strip
Cavalier
Flachwinkel
Cavaliere
Lagerbock
Kaksoistaivutettu lista

Corner bracket
Petit gousset d'assemblage
Kleiner eckwinkel
Piccolo raccordo d'assemblaggio
Hornforstärkning
Kulmatuki

Axle rod
Tringle
Stange
Barra
Axel
Akseli/tanko

Crank handle
Manivelle
Kurbel
Manovella
Vev
Kampi

Rod and strip connector
Raccord tringle (et bande)
Band und Stangenkupplung
Raccordo barra (e banda)
Axel och balkanslutning
Tangon ja listan liitin

Pinion 19 teeth
Pignon 19 dents
Getriebedrad (19 Zähne)
Pignoni a 19 denti
Pinjongdrev, 19 kuggar
19 hampainen hammaspyörä

Gear wheel 57 teeth
Roues 57 dents
Getriebedrad 57 Zähne
Ruota a 57 denti
Kugghjul, 57 kuggar
57 hampainen vaihdepyörä

Contrate wheel
Roue de chant
Flachrolle
Ruota di taglio
Vinkelkugghjul
Laakea hammaspyörä

Worm
Vis sans fin
Schnecke
Vite senza fine
Snäckdrev
Simpukkapyörä

Bush wheel
Roue à barillet
Federrolle
Ruota a tamburo
Montagehjül
joustapyörä

Omvendt vinkel
Angulo doble
Omgekeerde hoeksteen
Duplo angulo
Αντιπροσθη γωνία
裏返しコーナー・プレート

U-format element
Caballete
Dubbelgeboden strook
Cavalete
Διχαλωτός συνδετήρας
ステール

Omvendt vinkel
Angulo doble
Omgekeerde hoeksteen
Duplo angulo
Αντιπροσθη γωνία
裏返しコーナー・プレート

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joustapyörä

Stang
Varilla
As
Barra
Μπάρα
トライアングル

Handsving
Manivela
Slinger
Manivela
Μομβέλα
κράνκ

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Ruota a tamburo
Montagehjül
joustapyörä

Stangforbindelse (og element)
Varilla de emplame (y banda)
Askoppling
Terminal e peça conectora
Ρακόρ μπάρας (και διάτρητο στοιχείο)
τραίανγκλ της ένωσης (ή πλάτα)

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Schnecke
Vite senza fine
Snäckdrev
Simpukkapyörä

Bush wheel
Roue à barillet
Federrolle
Ruota a tamburo
Montagehjül
joustapyörä

Tandhjul med 19 tænder
Pignon de 19 dents
Tandwiel met 19 tandem
Pinhão de 19 dentes
Πινιόν με 19 δόντια
19歯ピニオン

Hjul med 57 tænder
Rueda de 57 dientes
Tandwiel met 57 tanden
Roda de 57 dentes
Τροχός με 57 δόντια
57歯齒車

Contrate wheel
Roue de chant
Flachrolle
Ruota di taglio
Vinkelkugghjul
Laakea hammaspyörä

Worm
Vis sans fin
Schnecke
Vite senza fine
Snäckdrev
Simpukkapyörä

Bush wheel
Roue à barillet
Federrolle
Ruota a tamburo
Montagehjül
joustapyörä

Skruer uden ende
Tornillo de rosca sin fin
Wormwiel
Parafuso de rosca sem fim
Ατερωμένο κοχλίο
ウォーム

Fladhjul
Rueda con canto
Riemschijf
Roda de encontro
Τροχός
中車

Skruer uden ende
Tornillo de rosca sin fin
Wormwiel
Parafuso de rosca sem fim
Ατερωμένο κοχλίο
ウォーム

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ウォーム

Fladhjul
Rueda con canto
Riemschijf
Roda de encontro
Τροχός
中車

Pulleys
Poulies
Rollen
Pulegge
Remskiva
Hihnapyörä

Remskive
Poules
Riemschijven
Roldenas
Τροχάλια
軋輪

Driving band
Courroie
Zahnriemen
Cinghia
Drivbälte
Vetohihna

Rem
Correa
Drijfriem
Correia
Ιμάνιας
ベルト

Set collar
Bague d'arrêt
Haltering
Anello di sicurezza
I stoppering
Turvaprika

Stopping
Anilla de parada
Kraag met stelschroef
Anilha de travamento
Περιορισμό
止めリング

Spring clip
Clavette
Steckhalterung
Chiavetta
Stoppklamma
Jousiprika

Kile
Clavija
Veerclip
Cavilha
Klam
キー

Washers
Rondelles
Lochscheiben
Rondelle
Brickor
Prikkoja

Flade ringe
Arandelas
Onderlegningen
Anilhas
Ποδέςες
洋金

Spacer
Entretoise
Steg
Briglia di collegamento
Discanshylla
Väljholkja

Mellemstykke
Codal
Dwarststukken
Españador
Συναχίας
セパレータ

Compression spring
Ressort de compression
Druckfeder
Molla di compressione
Tryckfjäder
Puristusjousi

Muelle de compression
Druckveer
Mola de compressão
Πεστικό ελατήριο
圧縮コイルばね

Tension spring
Ressort de traction
Zugfeder
Molla di trazione
Dragfjäder
Vetojousi

Trækfjeder
Muelle de tracción
Trekveer
Mola de tracción
Ελατήριο ελξης
引張りコイルばね

Screwed rod
Tige filetée
Gewindestange
Asta filetata
Gandad axel
Tanko kiertella

Gevindstang
Varilla marcada de rosca
Schroefstang
Eixo com rosca
δοχλωτός οξείονιος
ねじ心棒

Threaded peg
Cheville filetée
Gewindestift
Perno filetato
Gangat stift
Kierrepultti

Gevindstift
Clavija marcada de rosca
Schroefpin
Perno com rosca
Κοχλωτός πείρος
ねじピン

Stud bolt
Boulon pivot
Zapfenschraube
Bulnone permo
Stödbult
Nuppillinen kierrepultti

Tapskruer
Pivote
Bout met kop
Parafuso pivot
Μπουλόνι
πιβόττ·ρόλτ

Grub screw
Vis (sans tête)
Flachschräube
Vite (senza testa)
Skruv
Ruuvi (ilman nuppia)

Scruer (hovedløs)
Tornillo (sin cabeza)
Verzonken schroef
Parafuso sem cabeça
Βίδα χωρίς κεφαλή
無頭) ねじ

Square nut
Écrou carré
Vierkantsmutter
Dado quadrado
Fyrkantmutter
Mutteri

Firkantet møtrik
Tuercas cuadrada
Vierkante moer
Porca quadrada
Τετράγωνο παξιμάδι
角形ナット

Open ended spanner
Clé pour écrou
Schraubenschlüssel
Chiave per dado
Mutternyckel
Kirstysavain

Matriknogle
Llave para tuercas
Sleutel voor moer
Chave de porcas
Κλειδί για παξιμάδι
レンチ

Allen keys
Clé 6 pans
Sechskantschlüssel
Chiave per dadi esagonali
Seokantnyckel
Kuusiavain

Sekskantet nøgle
Llave para atornillar de 6 caras
Inbusstleutel
Chave sextavada
Εξάγωνο κλειδί
εξάγωνο/σπασ

Allen keys
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