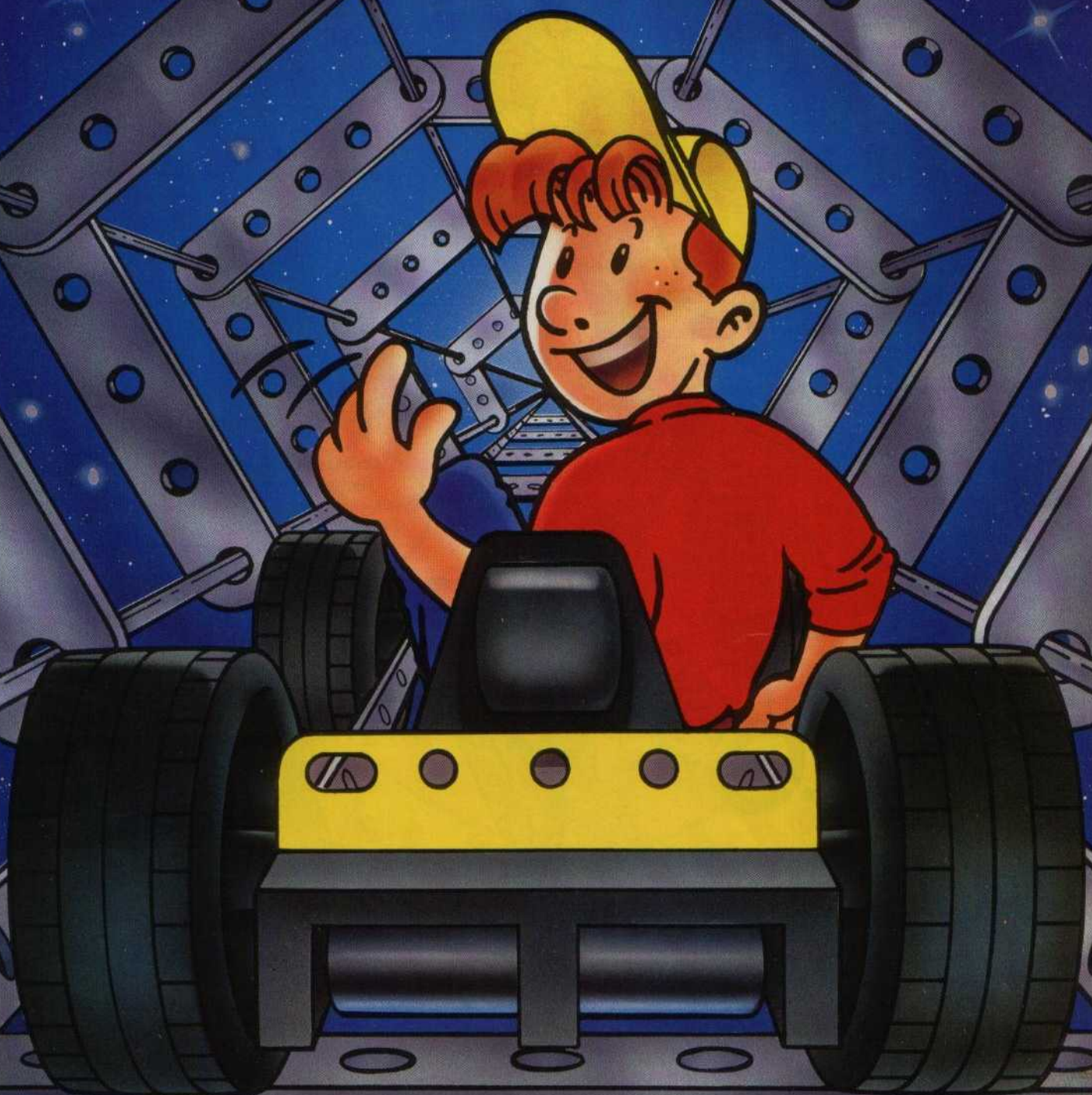
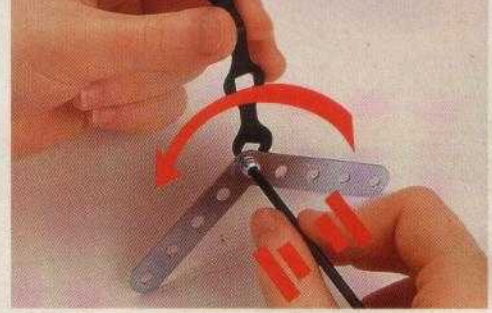


# MECCANO®

Introduction leaflet  
Manuel d'initiation - Kennismakingsfolder  
Gebrauchsanweisung - Manuale de istruzioni  
Manual de iniciación - 組立て説明書

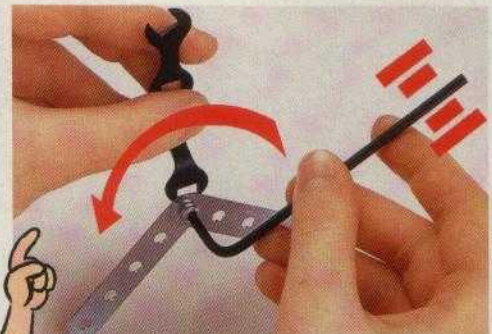






Screw  
Tu visse  
Je schroeft  
So schraubst Du  
Avvita  
Atornilla  
まずビスをとめる。

Discover assembly with nuts and bolts  
Découvre l'assemblage par vis et écrou  
Ontdek het monteren met schroef en moer  
Entdecke das Verbinden mit Muttern und Schrauben  
Scopri come montare con viti e dadi  
Aprende el montaje con tornillos y tuercas  
ビスとナットの組合せに注意。



You tighten  
Tu bloques  
Je maakt vast  
So ziehst du die Mutter fest  
Blocco  
Aprieta  
固定する。

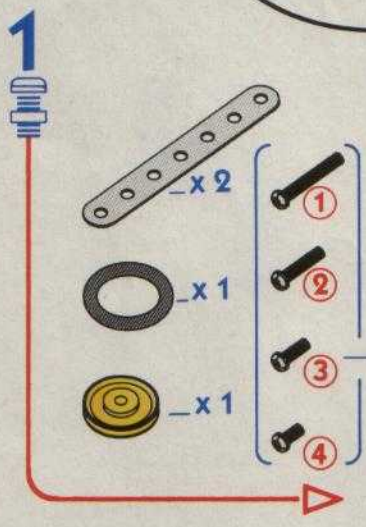
Follow the instructions  
step by step  
Suis le montage étape  
par étape  
Voig de montage stap  
voor stap  
Folge die Anleitung Schritt  
für Schritt  
Segui queste istruzioni  
punto per punto  
Sigue el montaje paso a paso  
写真を見て順番に従って、  
組み立てよう。

Select your parts  
Choisis tes pièces  
Kies je onderdelen  
Suche die Teile aus  
Scegli i tuoi pezzi  
Escoje las distintas piezas  
部品を選ぶ。



Scooter  
Trottinette - Scooter  
Tretroller - Scooter  
Patinete  
スクーター

A free assembly :  
nut - locking nut  
Un assemblage libre : écrou - contre écrou  
Niet te strak monteren : moer tegen moer  
Eine bewegliche Verbindung : 2 Muttern gekontert  
Un assemblaggio libero : dado contro dado  
Un montaje libre : tuerca-contratuerca  
ナットをきつく締めすぎないように。



Assemble them  
Assemble-les  
Monteer ze  
Befestige sie miteinander  
Assembla i pezzi  
Ensambla las piezas  
組み立ての始まり。





2

1 + x1



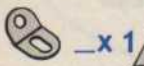
x1



x1

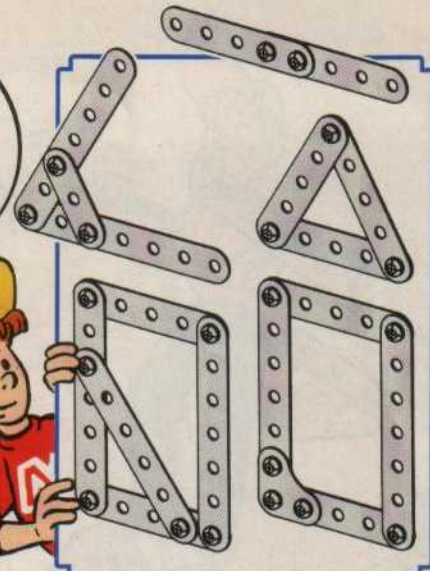
3

2 +



x1

Rigid  
Assemblies  
Assemblages rigides  
Stevige verbindingen  
Fester Zusammenbau  
Assemblaggio rigido  
Ensamblages rigidos  
しっかりした組立て



4

+



5cm  
2" x1



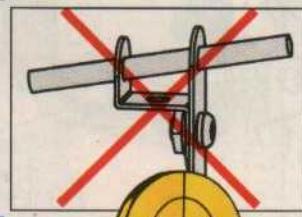
x2



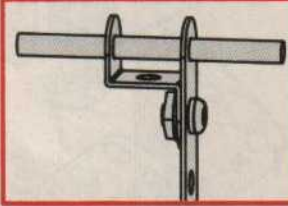
x1



x1



Adjust assembly  
Ajuste l'ensemble  
Controleer de constructie  
Richte alles gerade  
Sistema l'assemblaggio  
Ajusta el montaje  
ぴったりと合わせよう。



5

4 +



x1



x1



①



②



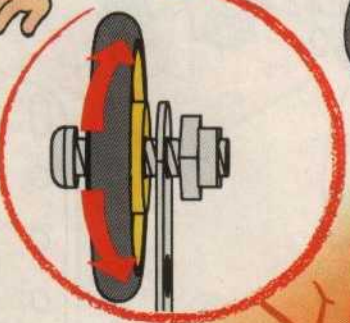
③

x1



④

x1

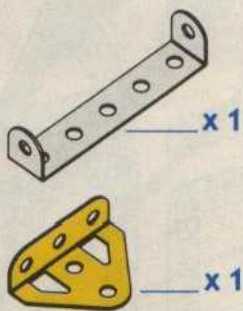


It works !  
Ça roule !  
Dan rolt het !  
Es funktioniert !  
Gira !  
¡ Funciona !  
できあがり !



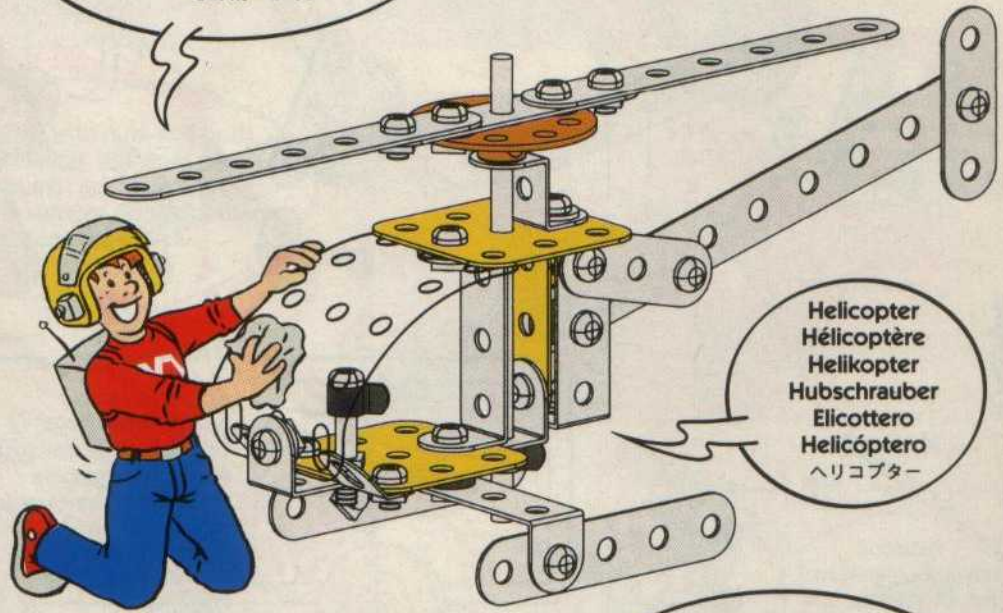
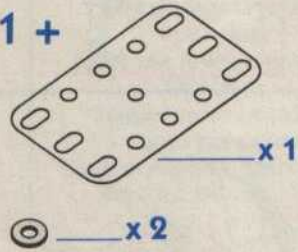
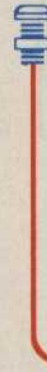


1

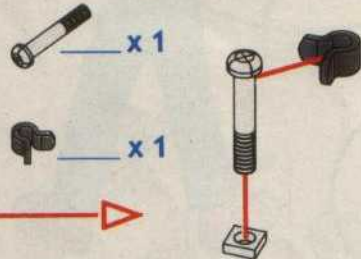
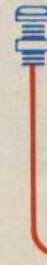


Now take off  
Maintenant décolle  
Nu uit elkaar halen  
Und jetzt hebe ab  
Ora decola  
Ahora vamos a despegar  
さあ飛べるぞ。

2

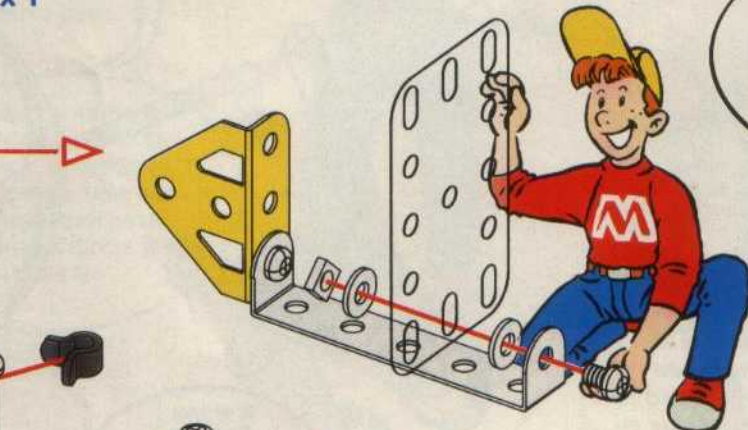
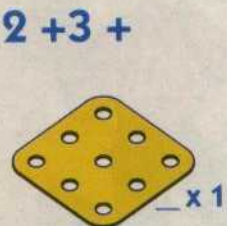
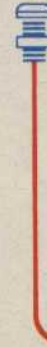


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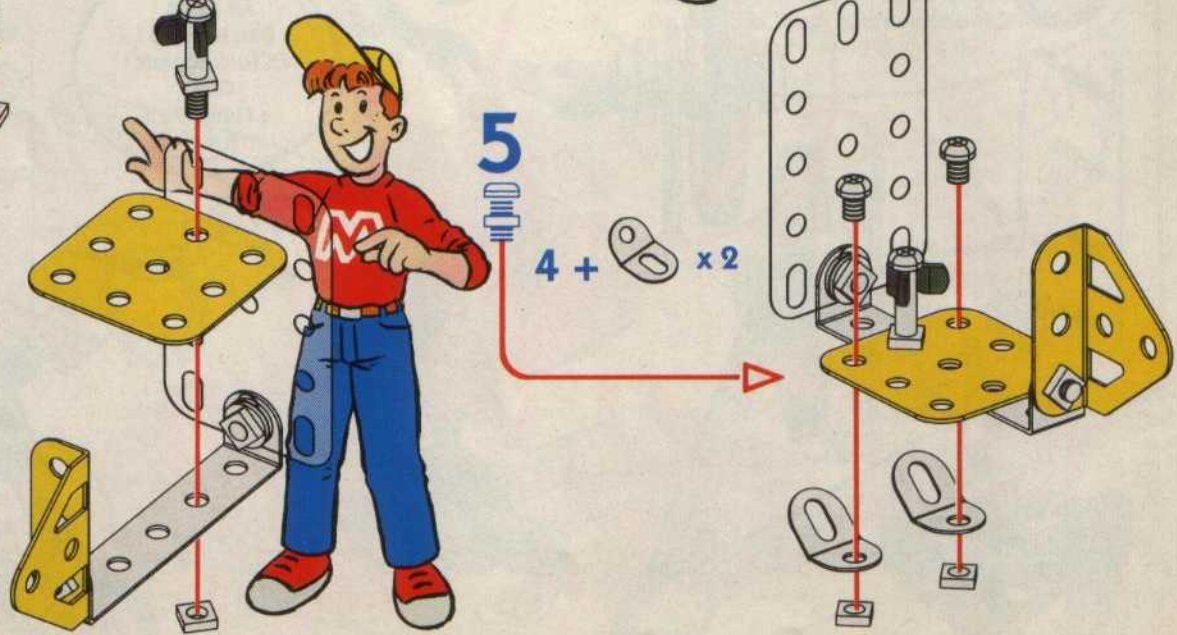


Don't forget the washers  
N'oublie pas les rondelles  
Vergeet de ringetjes niet  
Vergesse nicht die Dichtungsringe  
Non dimenticare le rondelle !  
No olvides las arandelas  
座金を忘れないように。

4

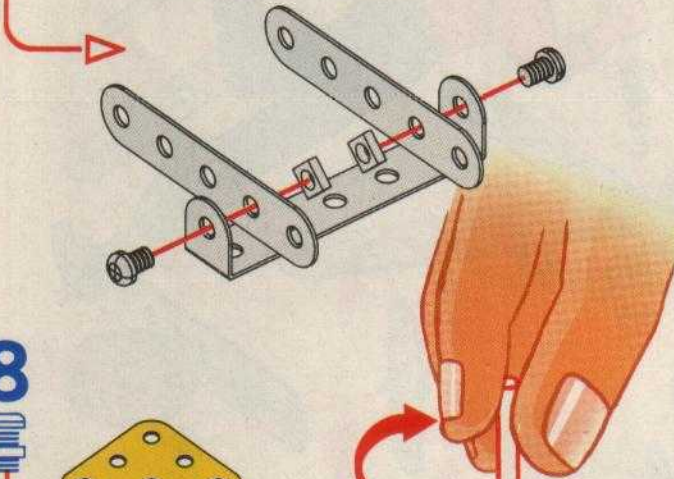
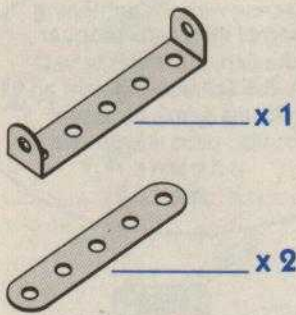


5

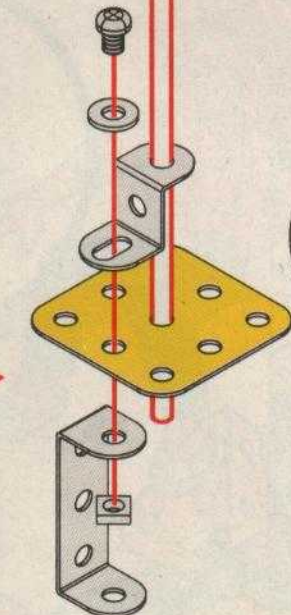
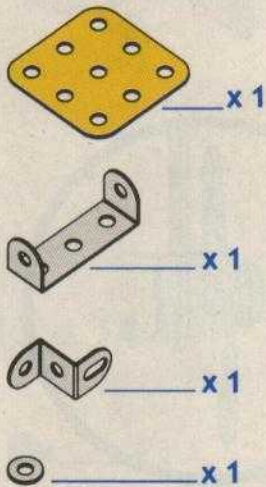




6



8



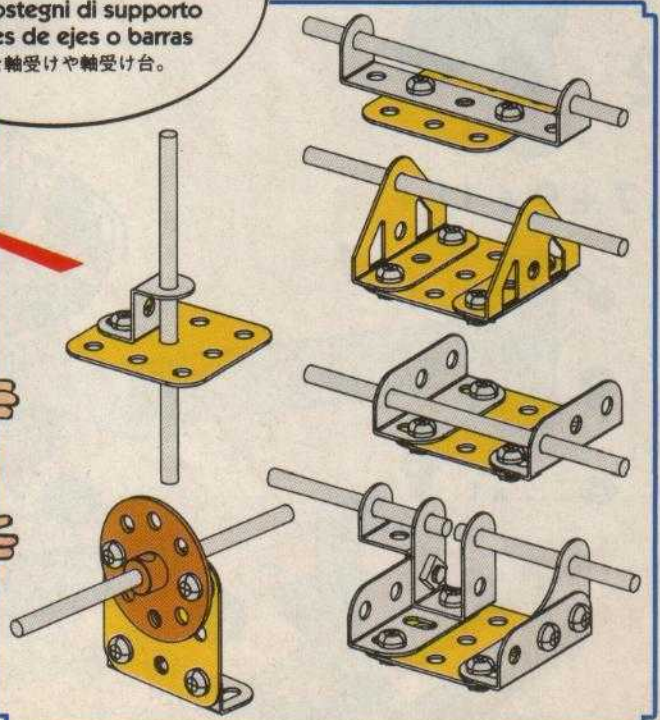
Take an axle for alignment  
 Prends un axe pour aligner  
 Neem een as om het in één lijn te zetten  
 Nimm eine Achse und richte aus  
 Prendi un'asse per allineare  
 Usa un eje para alinear  
 軸に部品をセットしよう。

7

5 + 6 +



Axes or bearing supports  
 Supports d'axes ou paliers  
 Steunstukken voor assen of Lagers  
 Unterstützt Achsen und Lager  
 Assi o sostegni di supporto  
 Soportes de ejes o barras  
 色々な軸受けや軸受け台。

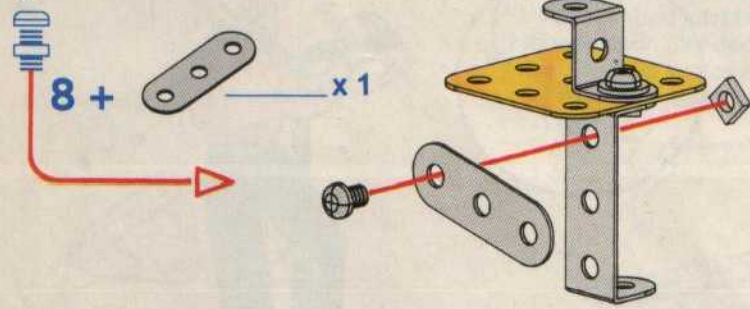


Simple !  
 Facile !  
 Gemakkelijk !  
 Ganz einfach !  
 Facile !  
 ¡ FÁCIL !  
 かんたん、  
 かんたん！





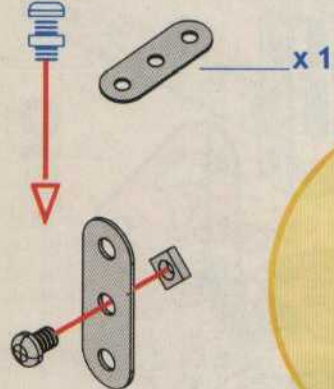
9



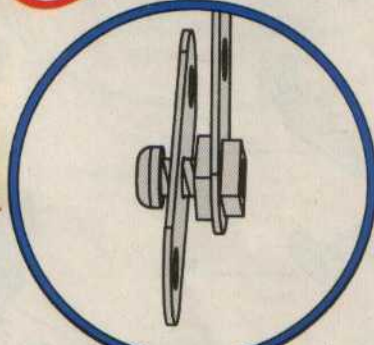
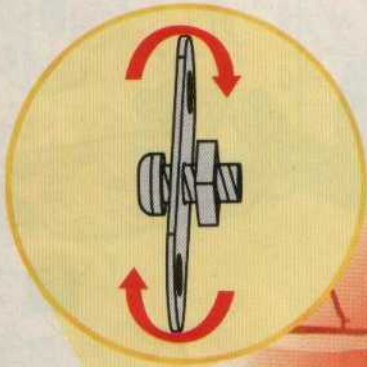
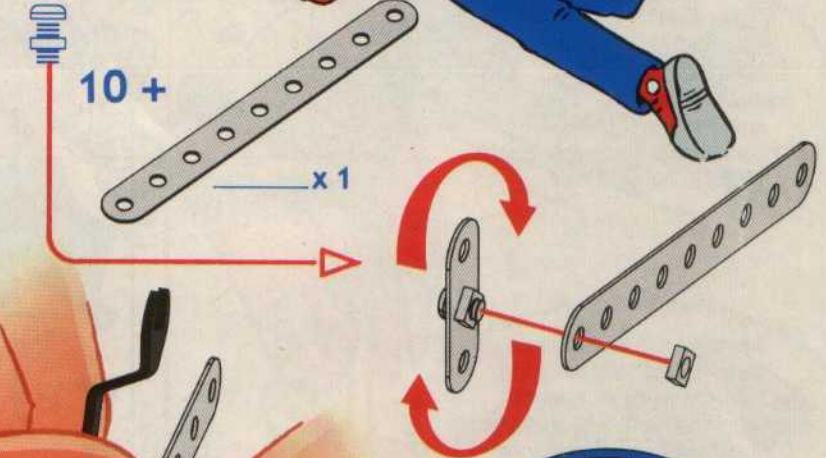
You screw without tightening  
 Tu serres mais sans bloquer  
 Aandraaien, maar niet te vast  
 Ziehe die Schrauben leicht an  
 Avvita ma senza bloccare  
 Atornilla, pero sin apretar  
 ビスで留める。  
 だけど、固定はしない。



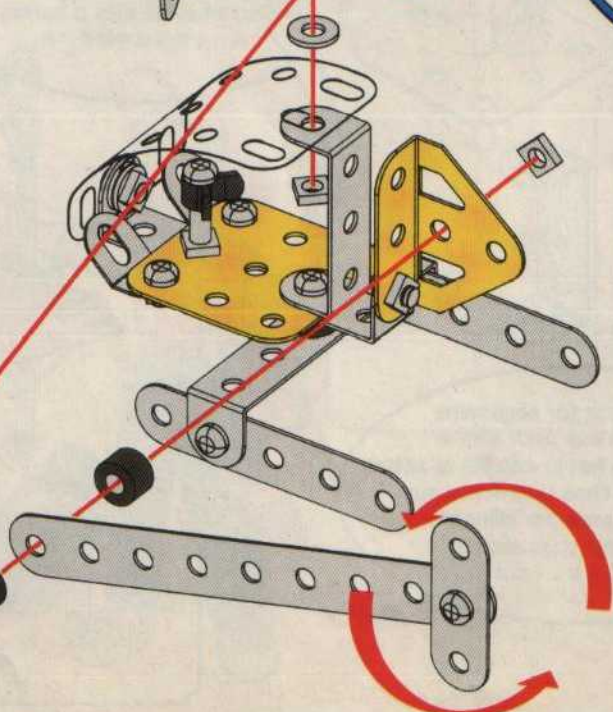
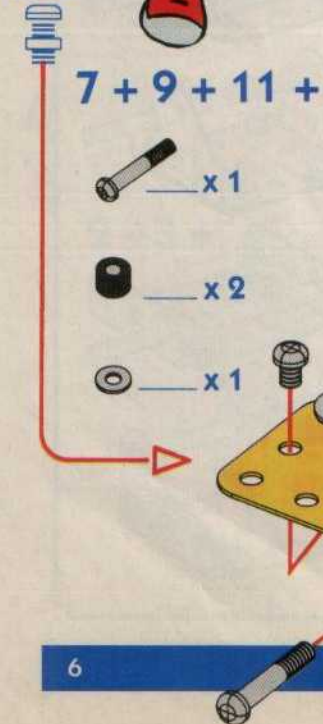
10



11



12

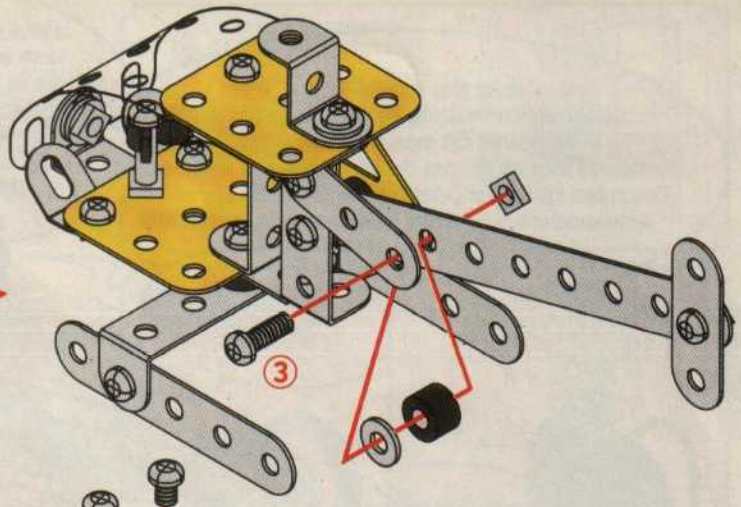




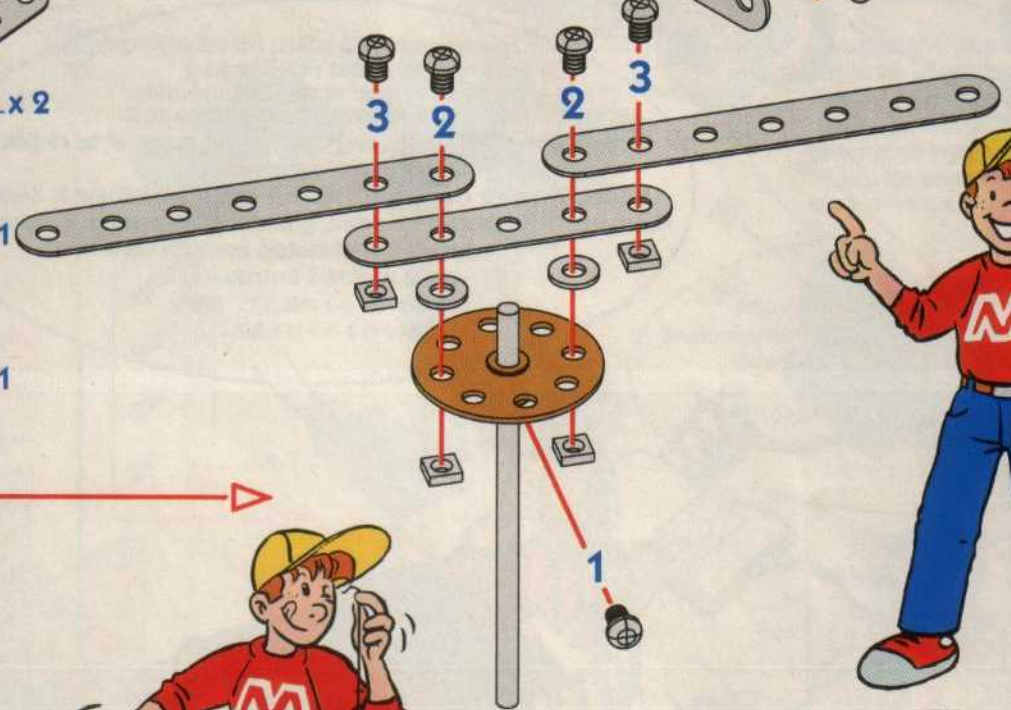
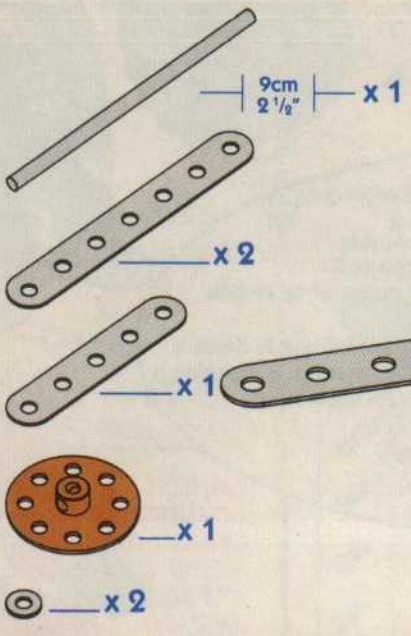
# 13



12 + x1 x1 x1

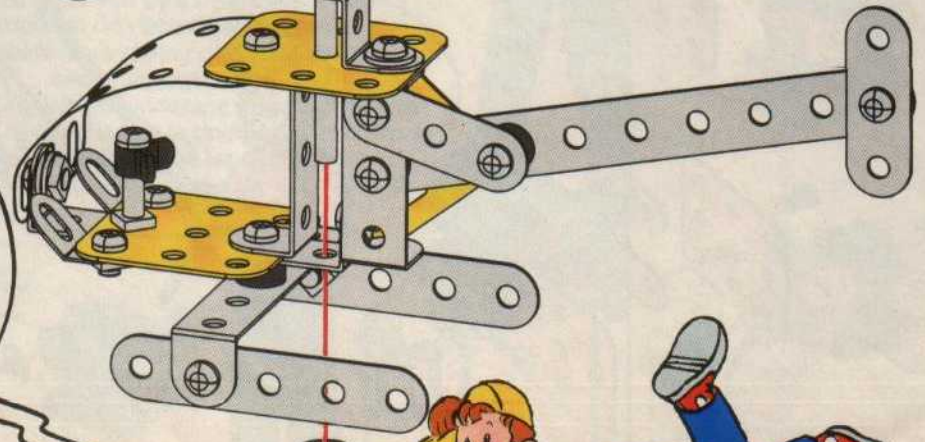
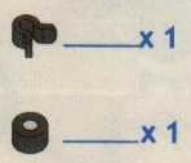


# 14



# 15

13 + 14 +



Align, adjust and then lock up the screws and nuts  
 Aligne, règle et après bloque les vis et écrous  
 Zet in één lijn, stel af en zet daarna de schroeven (\*)  
 Richte aus, stelle ein und dann ziehst du die Schrauben und Muttern  
 Alinea, ajusta y luego aprieta los tornillos y las tuercas  
 並べて、合わせてから、ビスとナットで固定する。

(\*) en de moeren vast



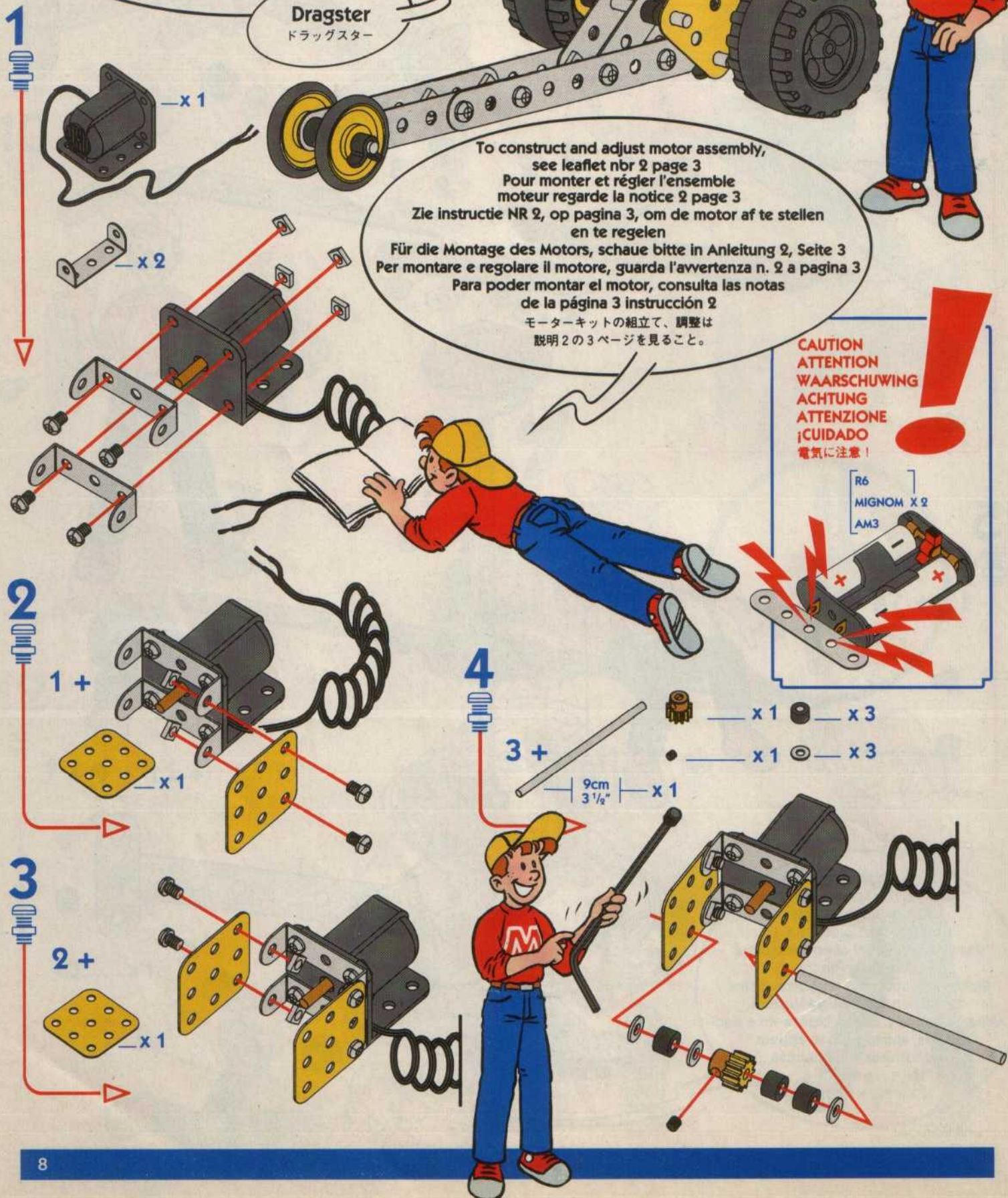
Construct this model from n°2 set  
 Construis ce modèle à partir de la boîte n°2  
 Je bouw dit model al met doos 2  
 Dieses Modell kannst du ab Baukasten 2 bauen  
 Costruisci questo modello a partire dalla scatola n.2  
 Este modelo lo puedes construir con la caja n°2  
 このモデルをセットNo.2から  
 作ってみよう。

**Dragster**  
 ドラッグスター

To construct and adjust motor assembly,  
 see leaflet nbr 2 page 3  
 Pour monter et régler l'ensemble  
 moteur regarde la notice 2 page 3  
 Zie instructie NR 2, op pagina 3, om de motor af te stellen  
 en te regelen  
 Für die Montage des Motors, schau bitte in Anleitung 2, Seite 3  
 Per montare e regolare il motore, guarda l'avvertenza n. 2 a pagina 3  
 Para poder montar el motor, consulta las notas  
 de la página 3 instrucción 2  
 モーターキットの組立て、調整は  
 説明2の3ページを見ること。

**CAUTION**  
**ATTENTION**  
**WAARSCHUWING**  
**ACHTUNG**  
**ATTENZIONE**  
**¡CUIDADO**  
 電気にご注意!

[R6  
 MIGNOM X 2  
 AM3



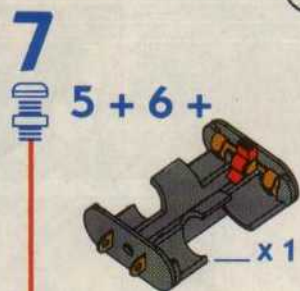
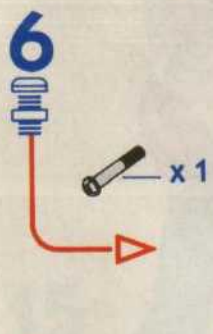
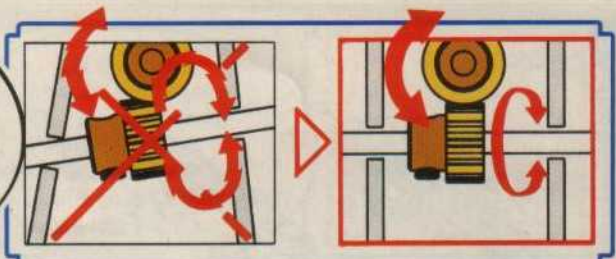
- x 1    ● x 3
- x 1    ● x 3

9cm  
 3 1/2" x 1

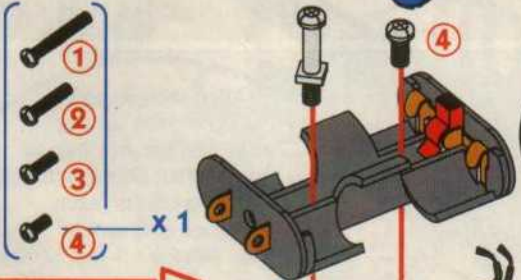




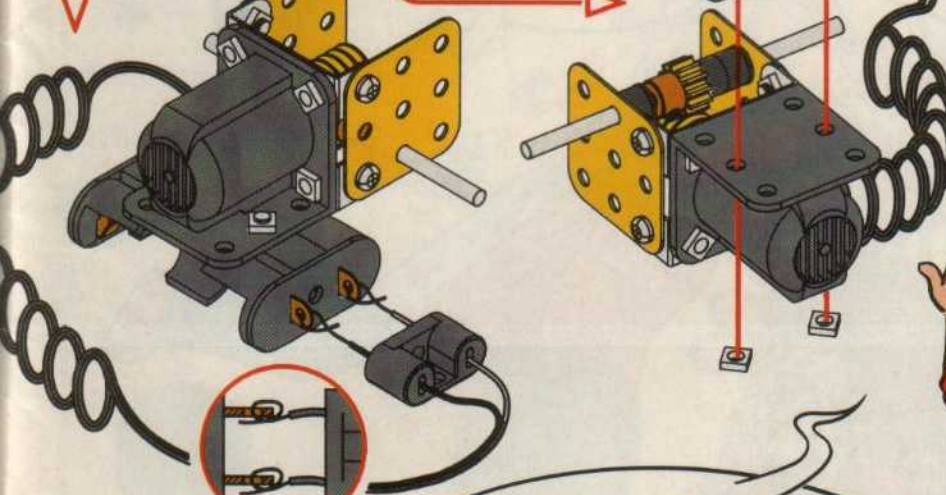
Align the axes  
 Aligner les axes  
 Zet de assen in één lijn  
 Richte die Achsen aus  
 Allinea le assi  
 Alinea los ejes  
 軸の角度を調整しよう。



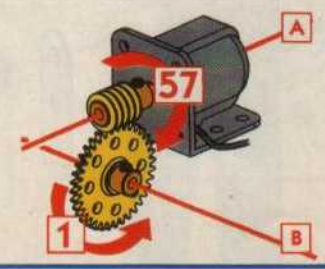
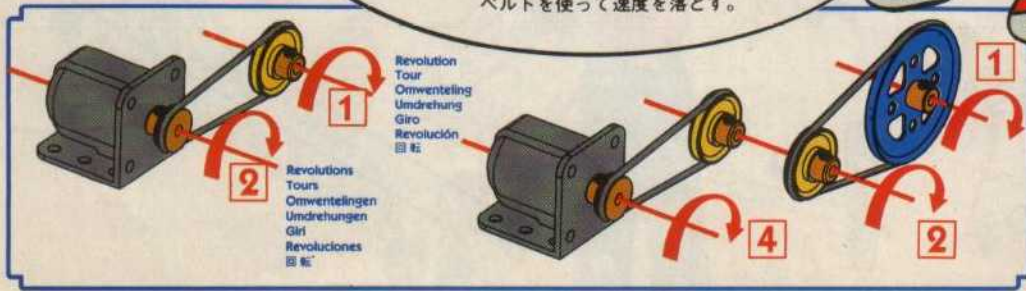
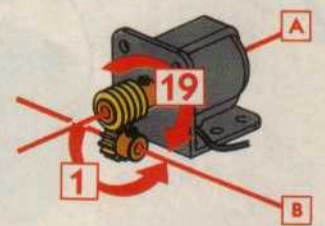
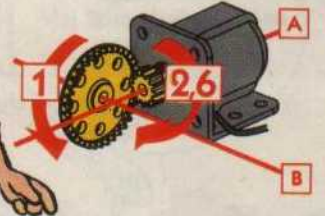
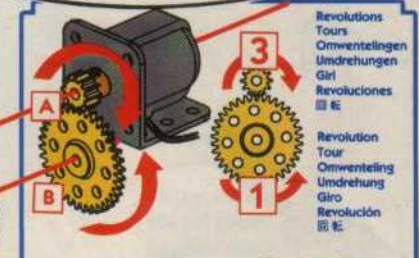
Adjust the gears  
 Règle les engrenages  
 Stel de tandwiel en  
 Stelle die Gänge ein  
 Sistema gli ingranaggi  
 Ajusta los engranajes  
 歯車をぴったり合わせよう。



Speed reduction by gears  
 Réduction de vitesse par engrenages  
 Snelheidsvermindering door middel van tandwiel en  
 Geschwindigkeitsvermindering durch  
 Gangeinstellung  
 Riduzione di velocità con gli ingranaggi  
 Reduce la velocidad con los engranajes  
 歯車をつけて速度を落とす。

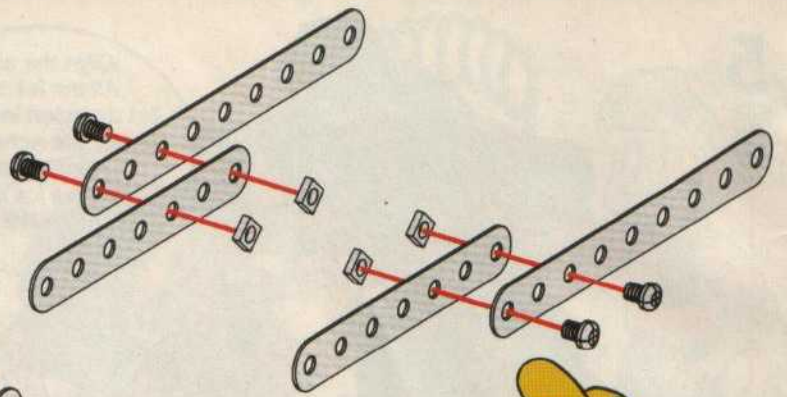
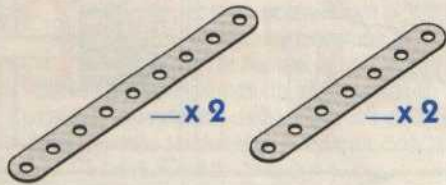


Speed reduction by transmission belts  
 Réduction de vitesse par courroies  
 Snelheidsvermindering door middel van  
 overbrengingsriemen  
 Geschwindigkeitsvermindering durch Keilriemen  
 Riduzione di velocità con la cinghia di trasmissione  
 Reduce la velocidad con las transmisiones  
 ベルトを使って速度を落とす。



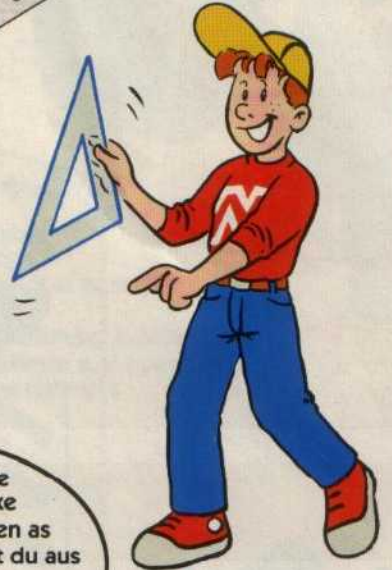
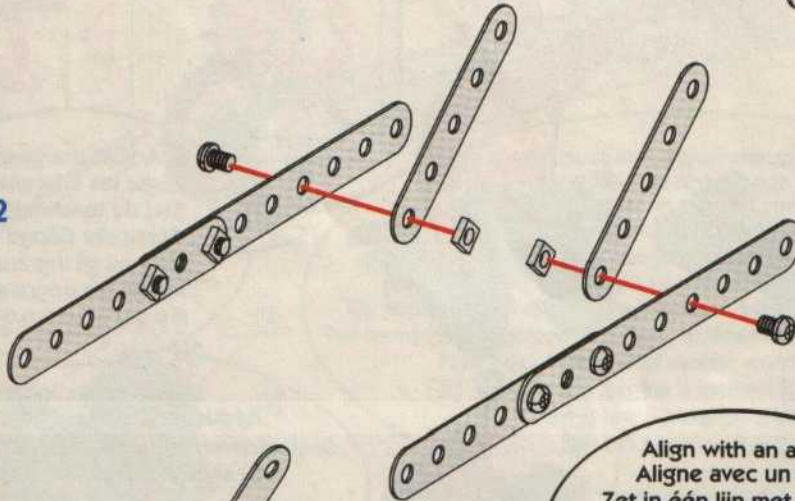
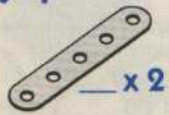


9



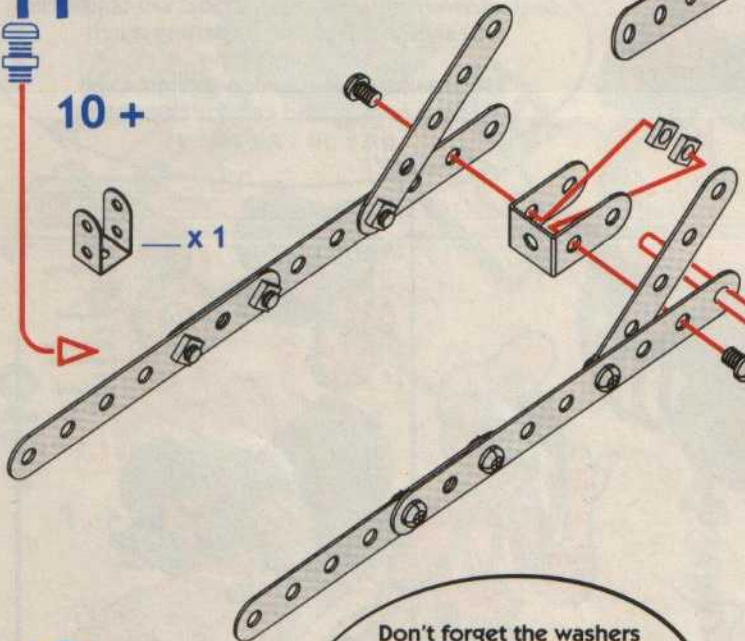
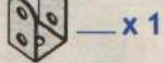
10

9 +



11

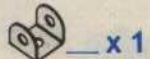
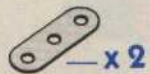
10 +



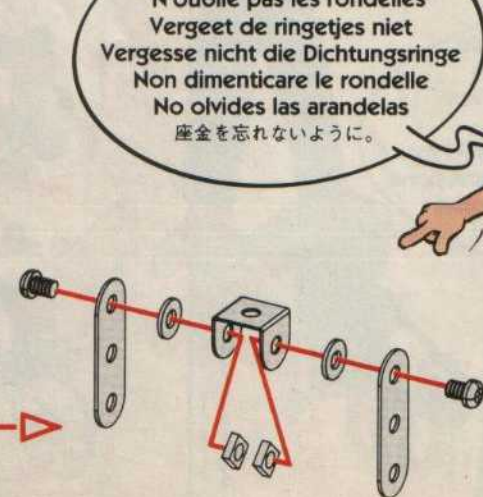
Align with an axle  
Aligner avec un axe  
Zet in één lijn met een as  
Mit einer Achse richtest du aus  
Allinea con un'asse  
Alinea con un eje  
軸に部品をセットしよう。



12

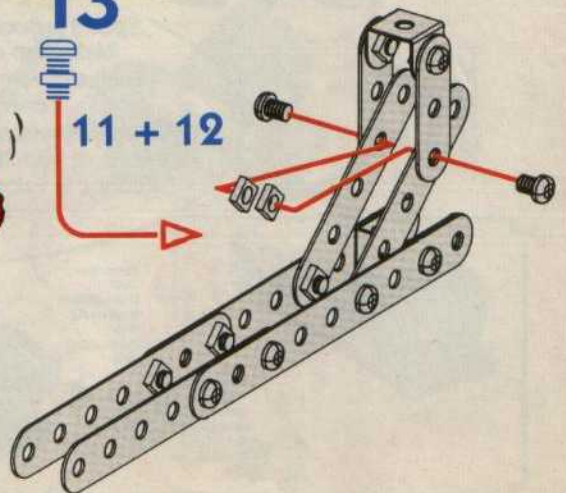


Don't forget the washers  
N'oubliez pas les rondelles  
Vergeet de ringetjes niet  
Vergesse nicht die Dichtungsringe  
Non dimenticare le rondelle  
No olvides las arandelas  
座金を忘れないように。



13

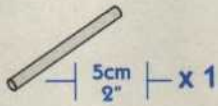
11 + 12



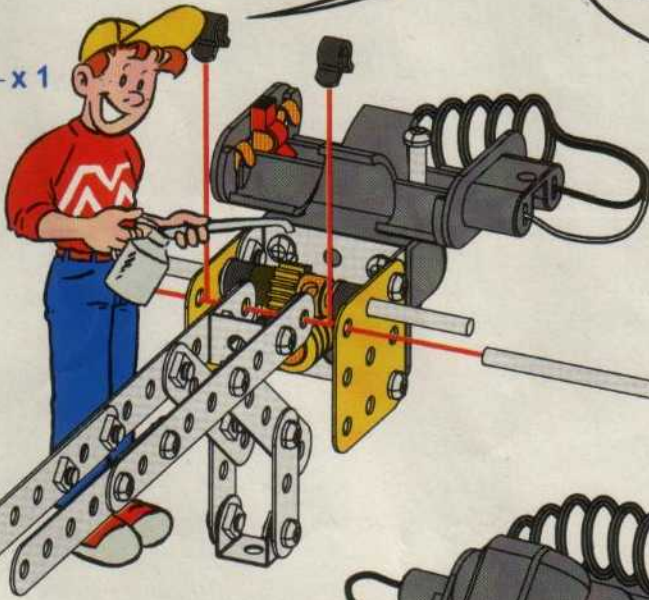


# 14

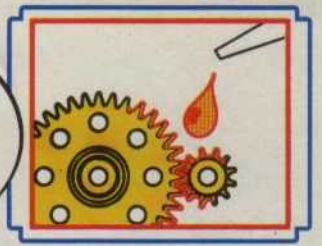
8 + 13 +



x 2

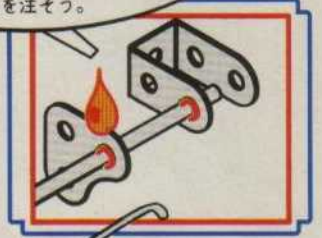


Oil the gears  
 Huile les engrenages  
 Olie de tandwielen  
 Öle die gänge  
 Lubrifica gli ingranaggi  
 Pon aceite en los engranajes  
 歯車に油を注そう。



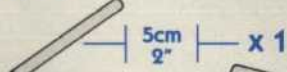
Oil the axles  
 or bearing supports  
 Huile les supports d'axes ou paliers  
 Olie de assen of de lagersteunstukken  
 Öle die Achsen oder Lager  
 Lubrifica le assi o sostegni di supporto  
 Pon aceite en los soportes para  
 ejes o barras

軸受けや軸受け台にも油を注そう。

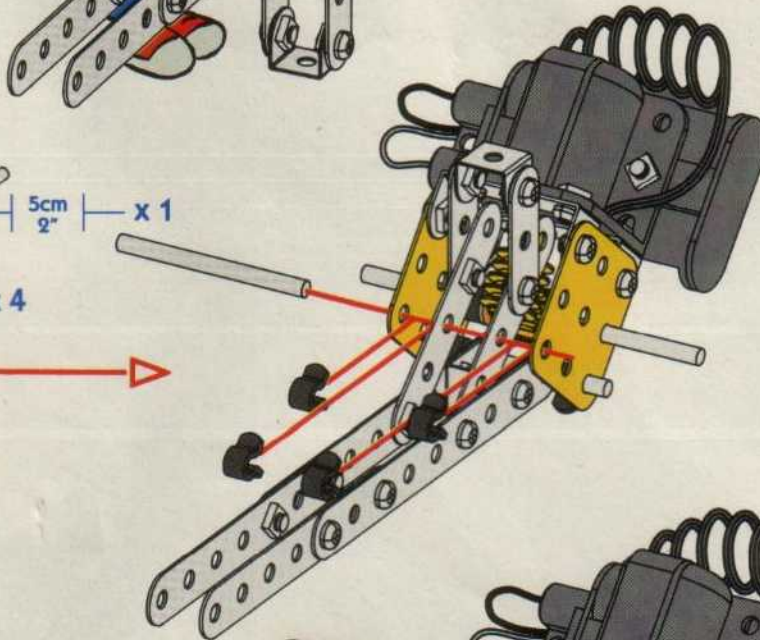


# 15

14 +

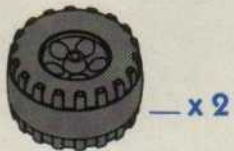


x 4

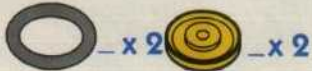


# 16

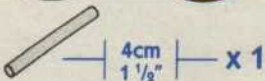
15 +



x 2



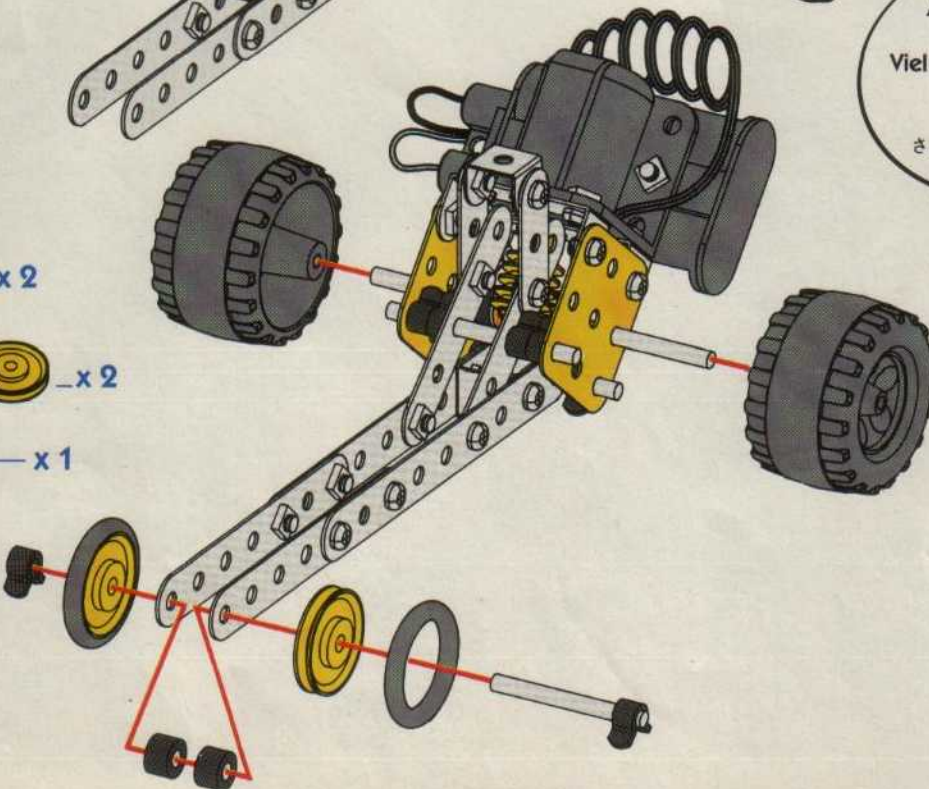
x 2



x 1

x 2

x 2



Now, play  
 A toi de jouer  
 Spelen maar  
 Viel Spass beim spielen  
 Ora gioca  
 ¡A jugar  
 さあ、動かしてみよう！







**GLOSSARY  
LEXIQUE  
ONDERDELENLIJST  
TEILE-LISTE  
LESSICO  
NOMENCLATURAS  
用語集**



Perforated strip ± 9 holes  
Bande ± 9 trous  
Geperforeerde strook ± 9 gaten  
Lochband  
Banda ± 9 buchi  
Varilla ± 9 agujeros  
穴あき(±)プレート

Double angle strips  
Bandes coudées  
Dubbele hoekstroken  
Winkel-Lochband  
Banda a gomito  
Varillas dobladas con codos  
凹形穴あきプレート

Curved strip  
Bande incurvée  
Gebogen strook  
Gebogenes Lochband  
Banda ricurve  
Varilla curvada  
バナナ形プレート

Angle girders ± 4 holes  
Cornière ± 4 trous  
Hoekbalkje ± 4 gaten  
Winkeleisen  
Profilato a L ± 4 fori  
Canto ± 4 agujeros  
穴あき(±4)アングル

Flat plates  
Plaques rigides  
Vlakke platen  
Feste platten  
Plastre rigide  
Placas rígidas  
プレート(硬い)

Semi-circular plate  
Plaque semi-circulaire  
Halfcirkelplaat  
Halbrund-Platten  
Plastra semi-circulari  
Placa semicircular  
半円プレート

Flexible plates  
Plaques flexibles  
Flexibele platen  
Flexibele platten  
Plastre flexibili  
Placas flexibles  
プレート(柔らかい)

Triang. flexible plate  
Plaque flexible triangulaire  
Flexibele driehoekige plaat  
Flexible Dreieck-Platten  
Plastra flessibile triangolare  
Placa flexible y triangular  
三角プレート(柔らかい)

Curved plates  
Plaques cintrées  
U-vormige boogplaten  
Bogen-Platten  
Plastre curve  
Placas en forma de bodava  
アーチ形プレート

Plastic plates  
Plaques plastique  
Plastic platten  
Kunststoff-Platten  
Plastre di plastica  
Placas de plastico  
プラスチックプレート

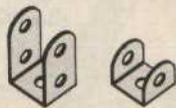
Flanged sector plate  
Plaque à rebords  
Flensplaat  
Winkelplatten  
Plastra con bordi  
Placa con rebordes  
縁付きプレート

Braced girder  
Longrine  
Versterkte steunbalk  
Streben  
Traversa  
Pieza con zig-zag  
つなぎ材

Trunnion  
Embase triang. (coudée)  
Driehoek voetstuk  
Winkeldreieck  
Base triangolare a gomito  
Base triangular con codo  
三角座(縁付き)

Fishplate  
Support plat  
Steunstuk  
Flachstütze  
Supporto piatto  
Soporte llano  
サポート板

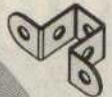
Angle brackets 90° (135°)  
Equerres 90° (135°)  
Hoeksteunen 90° (135°)  
90° (135°) winkeleisen  
Squadra 90° (135°)  
Angulos 90° (135°)  
コーナー・プレート 90度(135度)



Double brackets  
Supports doubles  
Bubbele steunstukken  
Doppelstütze  
Supporti doppi  
Soportes de doble codo  
ダブルサポート



Reversed angle bracket  
Equerre renversée  
Omgekeerde hoeksteun  
Doppelwinkel  
Squadra capovolta  
Angulo doble  
裏返しコーナー・プレート



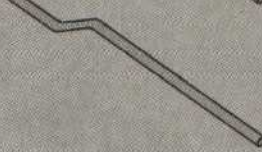
Double bent strip  
Cavaller  
Dubbelgeboden strook  
Flachwinkel  
Cavaliere  
Caballette  
ステューブル



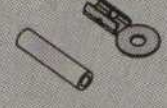
Corner bracket  
Petit gousset d'assemblage  
Driehoeksteun  
Kleiner Eckwinkel  
Piccolo raccordo d'assemblaggio  
Vaina para ensamblar  
小ガセットプレート



Axle rod  
Tringle  
AS  
Stange  
Barra  
Varilla  
トライアングル



Crank handle  
Manivelle  
Slinger  
Kurbel  
Manovella  
Manivela  
クランク



Rod and strip connector  
Raccord tringle (et bande)  
Askoppeling  
Band und Stangenkupplung  
Raccordo barra (e banda)  
Varilla de empalme (y banda)  
トライアングルの継ぎ手(またはプレート)



Pinion 19 teeth  
Pignon 19 dents  
Tandwiel met 19 tanden  
Getrieberad (19 Zähne)  
Pignoni a 19 denti  
Piñon de 19 dientes  
19歯ピニオン



Gear wheel 57 teeth  
Roue 57 dents  
Tandwiel met 57 tanden  
Getrieberad (57 Zähne)  
Ruota a 57 denti  
Rueda de 57 dientes  
57歯歯車



Contrate wheel  
Roue de chant  
Riemschijf  
Flachrolle  
Ruota di taglio  
Rueda con canto  
中車



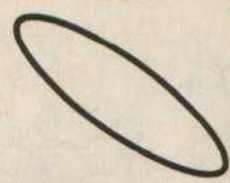
Worm  
Vis sans fin  
Wormwiel  
Schnecke  
Vite senza fine  
Tornillo de rosca sin fin  
ウォーム



Bush wheel  
Roue à barillet  
Naafbuswiel  
Federrolle  
Ruota a tamburo  
Rueda con cilindros  
シリンドラー歯車



Pulleys  
Poulies  
Riemschijven  
Rollen  
Pulegge  
Poleas  
動輪



Driving band  
Courroie  
Drijfriem  
Zahnriemen  
Cinghia  
Correa  
ベルト



Set collar  
Bague d'arrêt  
Kraag met stelschroef  
Haltering  
Anello di sicurezza  
Anilla de parada  
止めリング



Spring clip  
Clavette  
Veerclip  
Steckhalterung  
Clavetta  
キー



Washers  
Rondelles  
Onderlegingen  
Lochscheiben  
Rondelle  
Arandelas  
床金



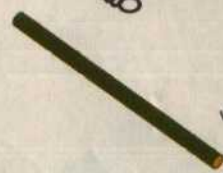
Spacer  
Entretoise  
Dwarsstukken  
Steg  
Briglia di collegamento  
Codal  
セパレータ



Compression spring  
Ressort de compression  
Drukveer  
Druckfeder  
Molla di compressione  
Muelle de compresion  
圧縮コイルばね



Tension spring  
Ressort de traction  
Trekveer  
Zugfeder  
Molla di trazione  
Muelle de traccion  
引張りコイルばね



Screwed rod  
Tige filetée  
Schroefstang  
Gewindestange  
Asta filettata  
Varilla marcada de rosca  
ねじ心棒



Threaded peg  
Cheville filetée  
Schroefpin  
Gewindestift  
Perno filettato  
Clavija marcada de rosca  
ねじピン



Stud bolt  
Boulon pivot  
Bout met kop  
Zapfenschraube  
Bullone pemo  
Pivot  
ピボット・ボルト



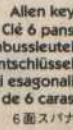
Grub screw  
Vis (sans tête)  
Verzonken schroef  
Flachschraube  
Vite (senza testa)  
Tornillo (sin cabeza)  
無頭ねじ



Square nut  
Ecou carré  
Vierkante moer  
Vierkantmutter  
Dado cuadrato  
Tuerca cuadrada  
角形ナット



Open ended spanner  
Clé pour écrou  
Sleutel voor moer  
Schraubenschlüssel  
Chiave per dado  
Llave para tuercas  
レンチ



Allen key  
Clé 6 pans  
Inbussleutel  
Sechskantschlüssel  
Chiave per dadi esagonali  
Llave para atornillar de 6 caras  
6面ソナバ