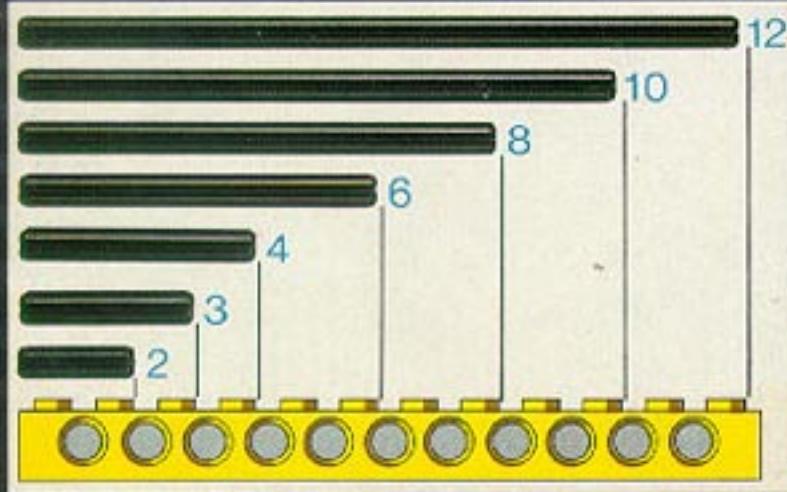


8054

Technic



Here's How to Operate Your 4.5 Volt Motor and Battery Control Unit.

Voici comment faire fonctionner votre moteur 4,5 V et son boîtier de contrôle.

Zo laat je de 4.5 Volt (batterij-) motor werken

Lift off the lid of the battery box and insert 3 C-size batteries end-to-end as shown. Replace lid.
(Batteries not included)

Soulevez le couvercle du boîtier et placez à l'intérieur 3 piles 1,5 V bout à bout, comme illustré. Replacez le couvercle.
(les piles ne sont pas fournies).

Verwijder de afsluitdeksel van de batterijhouder. Koop 3 gelijke en passende staafbatterijen, (maat C) van elk 1,5 Volt en plaats die er (kop-aan-staart) in. Zet dan de afsluitdeksel weer op de houder.

Attach the switch unit directly onto the battery box as shown.

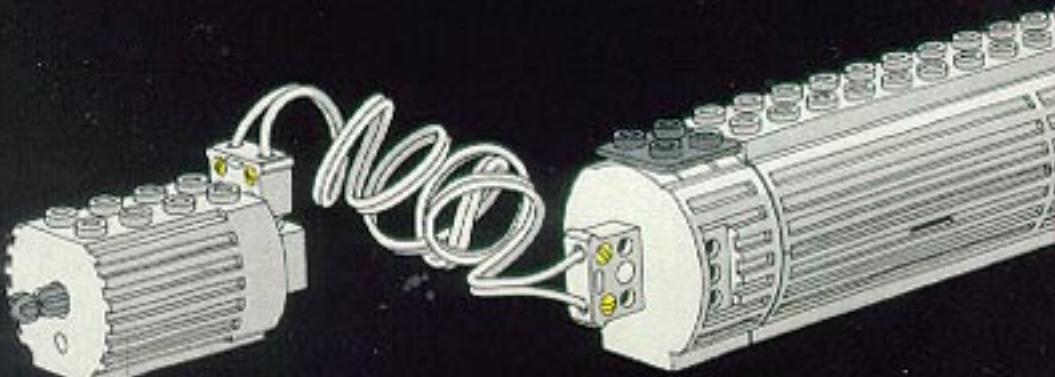
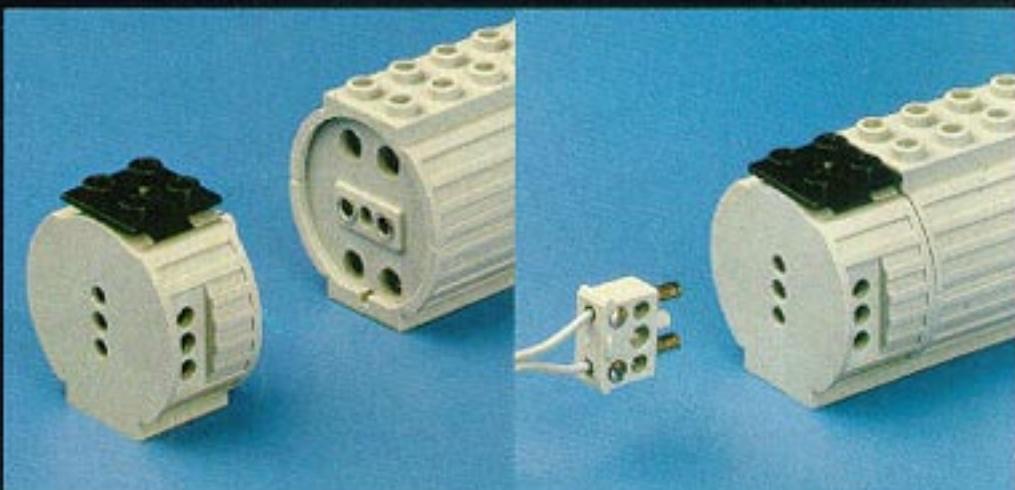
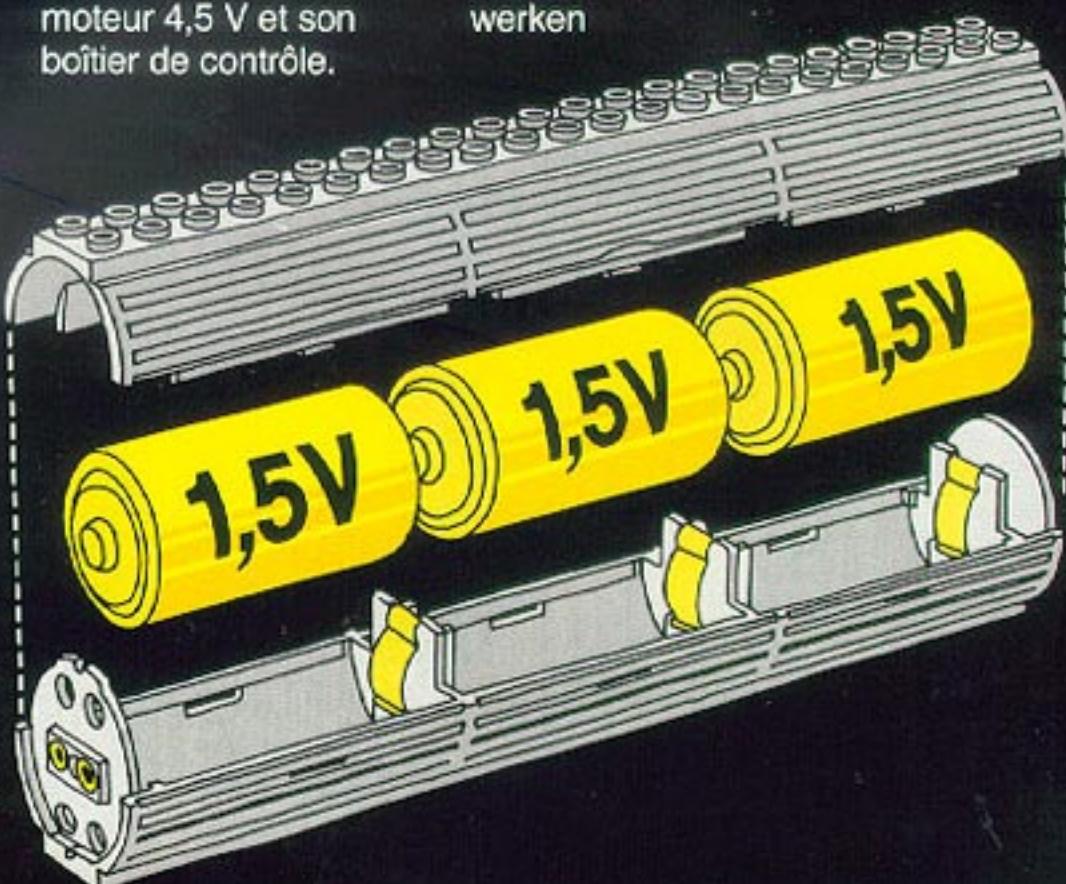
Accrochez l'inverseur des pôles directement sur le boîtier à piles comme illustré.

Klem de omkeer-schakelaar op het uiteinde van de houder.

Connect the motor to the battery control unit with the motor wires provided.

Branchez le moteur sur le boîtier de contrôle avec les fils fournis.

Verbind de motor via een snoertje met de omkeer-schakelaar.



When the switch is in the centre position, the current is cut off. In the outer positions the motor goes either forwards or backwards. If the switch is only pressed lightly, it will automatically return to the centre position.

The switch unit can also be built directly onto the motor. The unit and battery box are then connected with a wire.

Lorsque l'interrupteur est en position centrale, le courant est coupé. En positions latérales, le moteur tourne en avant ou en arrière. Si on appuie légèrement sur l'interrupteur, il retourne automatiquement à la position centrale.

L'inverseur peut également être construit directement sur le moteur. L'inverseur et le boîtier à piles sont alors reliés par les fils.

Staat de bedieningsknop in het midden dan is de verbinding verbroken. Beweeg je de knop naar links of rechts dan gaat de motor-as links- of rechtsom draaien. Als je de knop niet te ver oprolt duwt dat hij hij het isolaten terug vieren en dus de stroom automatisch uitschakelen.

Als je dat beter uitkomt, kun je de omkeerschakelaar ook direct aan de motor koppelen en dan maar een aansluiting maken met de batterijhouder.

Helpful Hints

If the motor unit doesn't start, then check to see that:

- a. Everything is connected in a firm and secure manner.
- b. The batteries are inserted properly into the battery box.

If the motor still doesn't start, then replace the batteries.

If the model does not move along freely and easily it will use more power, thus draining the batteries more quickly. To prevent this adjust the gears so all parts run easily and without strain on the motor. Remember that gearing down lowers the strain on the motor and prolongs the life of the batteries.

Please note: Water may damage the motor!

-Never pull the wire, but take hold of the plug itself when removing.

If you connect the motor to a transformer (e.g. LEGO® transformer nr. 7864) then remember that the output must not exceed 4.5 volts.

Use only transformers with a DC output. The motor is suppressed so that TV and radio reception are not disturbed.

Batteries

Use three 1.5 volt batteries of a size to fit the three spaces in the battery box.

Read instructions on batteries carefully before use.

Be certain to install the batteries correctly in the battery box. To do this, observe the polarity signs (+ symbols).

Incorrect installation when using batteries may result in battery leakage, or cause a short circuit.

Check the batteries regularly. Remove the batteries if they are not used for a long period of time. Batteries can leak a corrosive fluid, which will damage the battery box.

When replacing batteries, replace all at the same time, i.e. never mix used and new batteries.

Do not use different types of batteries (e.g. zinc-carbon, alkaline, rechargeable etc.) at the same time.

Rechargeable batteries may be used, but do not try to recharge the batteries in the battery box, always use a correct charger.

Do not connect two or more battery boxes.

Be careful when connecting the battery box to the motor or lighting bricks.

Never plug the wire back into itself forming a complete loop or into another wire already connected to the battery box. This will cause a short circuit. Do not throw used batteries in the fire!



Conseils utiles

Si le moteur ne démarre pas, vérifiez bien que:

- tous les branchements sont correctement et fermement reliés.
- les piles sont bien placées dans le boîtier.

Si le moteur continue à ne pas démarrer, remplacez les trois piles.

Un modèle doit bouger facilement et librement, sinon il consomme plus de courant et les piles s'usent plus vite. Pour éviter cela, ajustez les engrenages avec précision de sorte que toutes les pièces puissent bouger facilement sans surcharger le moteur.

Souvenez-vous qu'en réduisant la vitesse vous diminuez l'effort du moteur et vous prolongez ainsi la durée des piles.

Attention! L'eau peut endommager votre moteur.
- Pour débrancher, ne tirez jamais sur le fil mais par la fiche.

Si vous reliez votre moteur à un transformateur (au transformateur LEGO® n° 7864, par exemple), vous devez limiter son usage à 4.5 V.

Utilisez seulement les transformateurs vous donnant le courant continu.

Le moteur est antiparasité pour ne pas perturber les réceptions radio ou TV.

Piles

Utilisez trois piles 1.5 volt à la taille de l'emplacement prévu dans le boîtier.

Lisez attentivement les instructions données sur les piles avant de vous en servir.

Assurez-vous que les piles sont placées correctement dans le boîtier. Pour cela, respectez les signes de polarité (symboles +).

Une installation incorrecte peut endommager les piles ou provoquer un court-circuit.

Vérifiez régulièrement l'état des piles. Utilisez-les du boîtier si vous avez l'intention de ne pas les utiliser pendant un certain temps.

Les piles peuvent dégager un liquide corrosif qui endommagerait le boîtier.

Quand vous changez les piles, changez-les toutes en même temps, c'est-à-dire n'utilisez pas des piles neuves avec des piles usées.

N'utilisez pas différents types de piles en même temps (ne mélangez pas des piles zinc-carbone avec des piles alcalines ou des piles rechargeables).

Vous pouvez utiliser des piles rechargeables. Toutefois, n'essayez pas de les recharger dans le boîtier. Utilisez toujours le chargeur qui convient.

Ne branchez jamais deux ou plusieurs boîtiers à piles ensemble.

Soyez prudents lorsque vous branchez le boîtier à piles au moteur ou aux briques lumineuses. Ne branchez jamais le fil à l'arrière du boîtier en formant une boucle complète ou dans un autre fil déjà relié au boîtier. Cela provoquera un court-circuit.

Ne jetez jamais des piles au feu!

Nuttige tips

Als de motor niet direct start, controleer dan:

- a. Alle stekker aansluitingen.
- b. Of de batterijen goed (en in de juiste richting) in de houder zijn geplaatst.

Lukt het dan nog niet, vervang dan de batterijen. Als je werkstuk stroef draait moeten je batterijen meer stroom afgeven en zullen dus eerder leeg zijn.

Kontroleer daarom regelmatig, al tijdens het bouwen, het soepel lopen: telkens na het aanbrengen van een as, wiel of klemmippe.

En onthoud: als een groot tandwiel een kleiner moet aandrijven kost dat meer stroom dan omgekeerd.

Let op: Voorkom het voorlig worden van de motor (kortsmiting) en trek de stekkers nooit los door aan de draden te trekken. Wanneer je de motor niet met batterijen wilt voeden kun je eventueel een transformator gebruiken (bijv. LEGO nr. 7864) maar die mag alleen - en niet meer dan 4.5 Volt - gelijkstroom afgeven (en dus nooit wisselstroom).

De motor is voorzien van een storings-onderdrukker waardoor de ontvangst van radio en televisie niet gehinderd wordt.

Batterijen:

Lees altijd de aanwijzingen op de batterijen en let bij het plaatsen in de batterijhouder op de juiste poolrichting (+/- symbolen).

Daarmee verminder je de kans op kortsmiting en lekkage.

Kontroleer je batterijen regelmatig en verwijder ze uit de houder als ze leeg zijn of als je denkt er enige weken niet mee te werken.

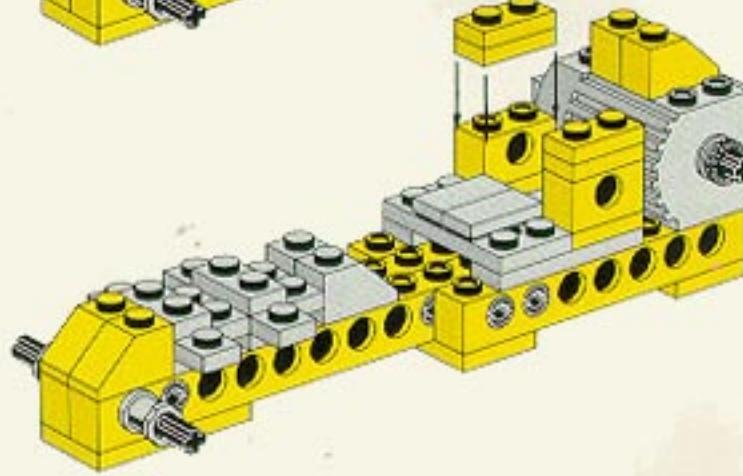
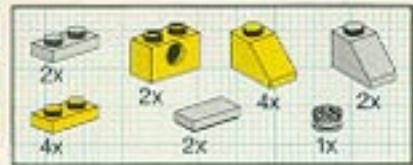
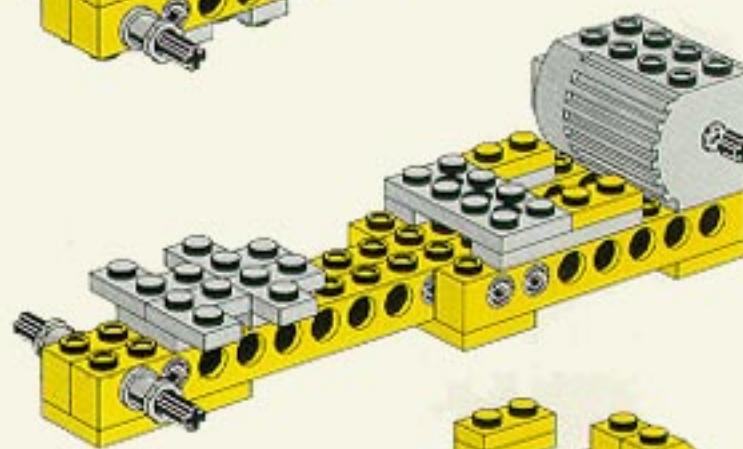
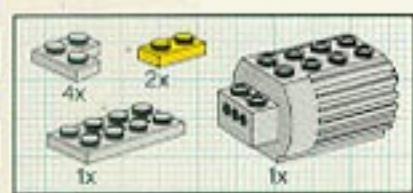
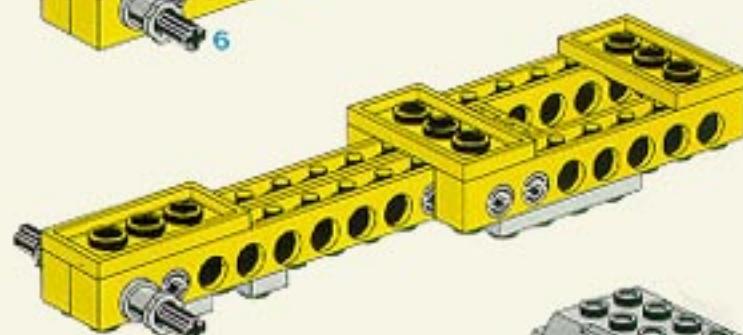
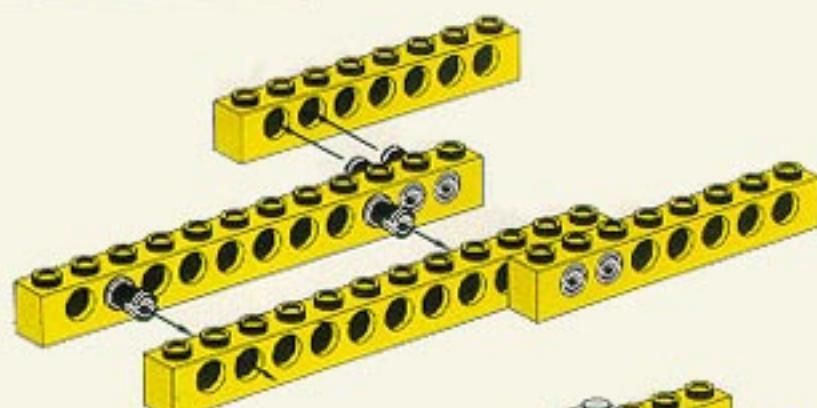
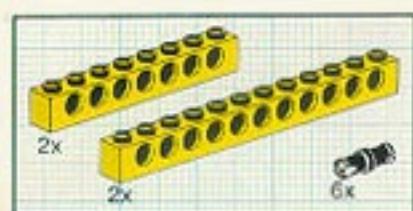
Ze bevatten een bijtend zuur dat bij lekkage de houder ernstig kan aantasten. Vervang altijd alle batterijen gelijktijdig en combineer nooit verschillende soorten (alkaline, zink-koolstof, herlaadbaar enz.) Mocht je herlaadbare batterijen gebruiken dan moet het opladen altijd in een opladapparaat gebouwen en nooit in de batterijhouder.

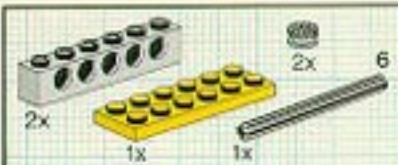
Verbind een batterijhouder nooit met een andere stroombron (of andere Batterijhouder). Om kortsmiting te voorkomen mogen stroomdraden die uit de batterijhouder komen nooit verbonden worden met een andere stekker of draad die al op de batterijhouder is aangesloten.

En tenslotte: Gooi lego batterijen niet zomaar weg of in open vuur.

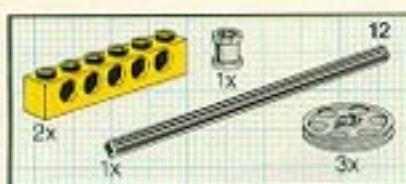
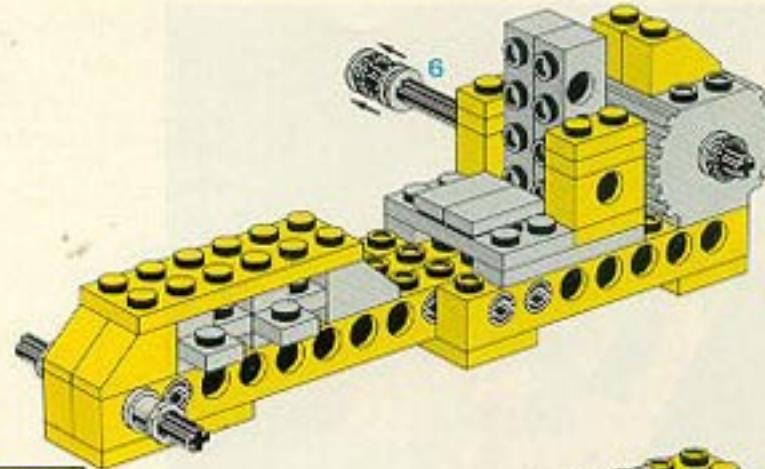
Bescherm ons milieu en lever ze in bij een winkel waar je batterijen kunt kopen.

Met deze aanwijzingen hopen wij je langer, leuker en veiliger te kunnen laten genieten van je bouwende LEGO werkstukken.

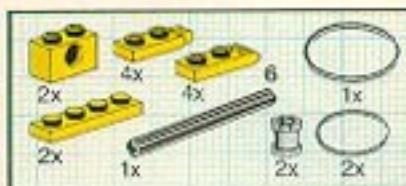
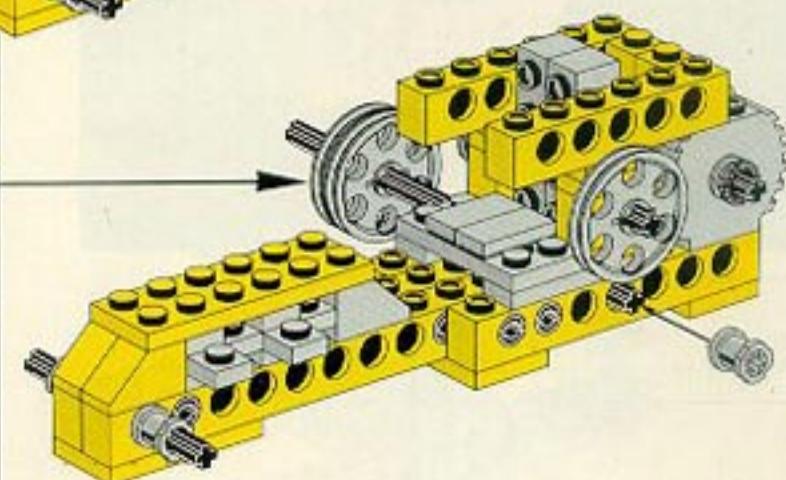




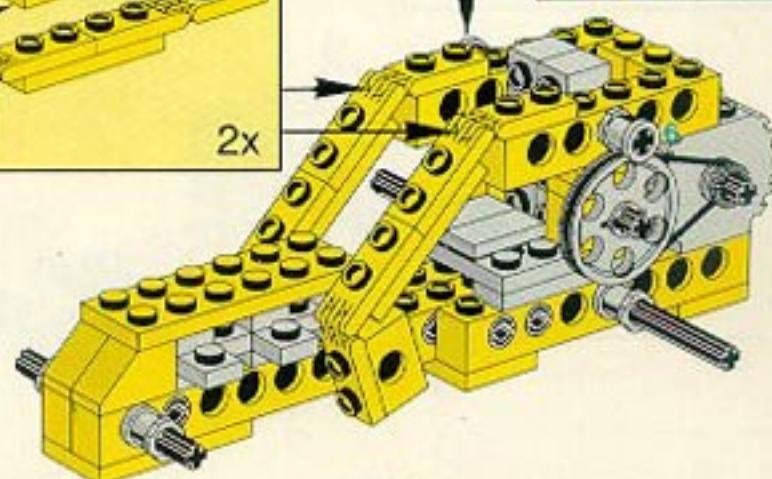
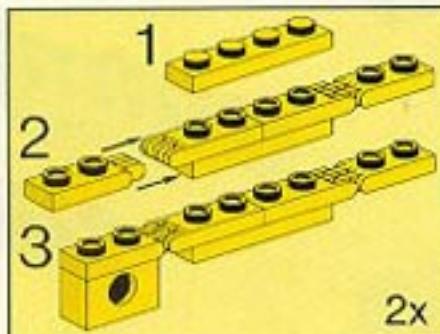
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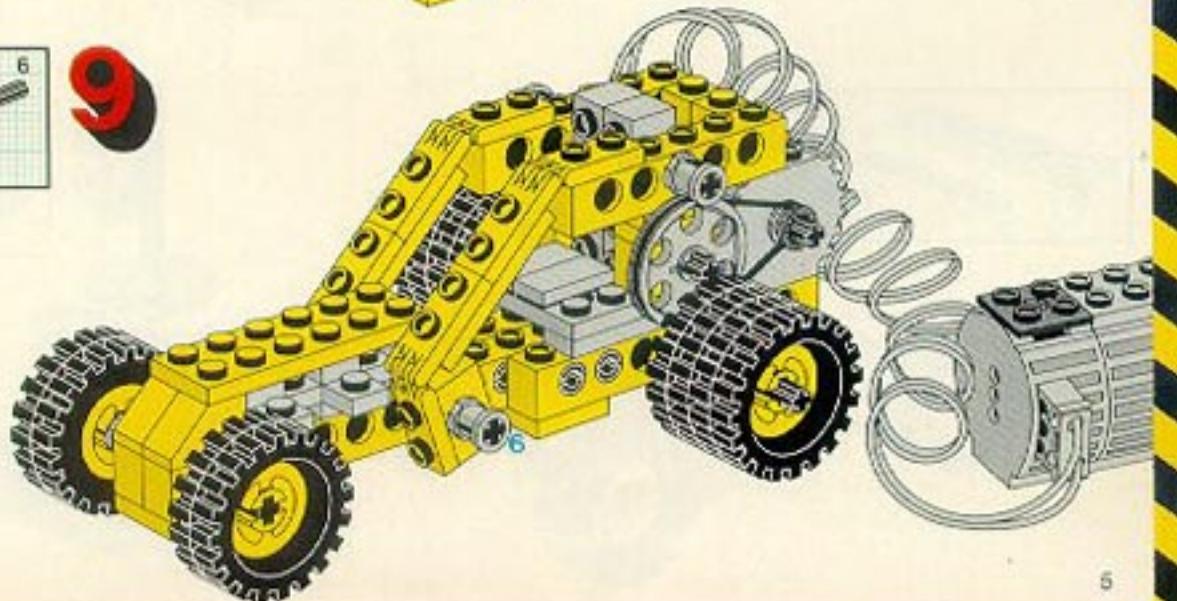
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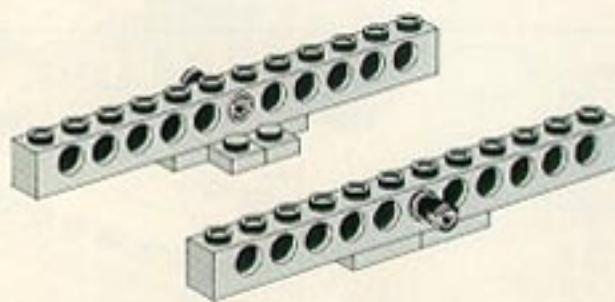
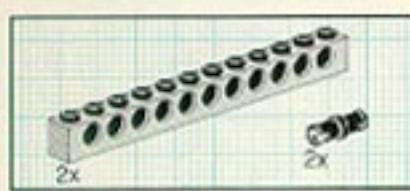




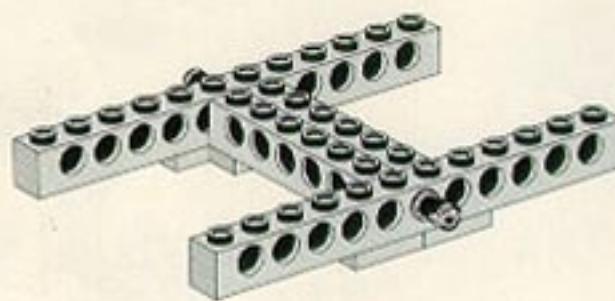
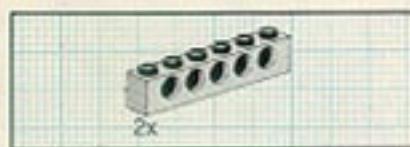
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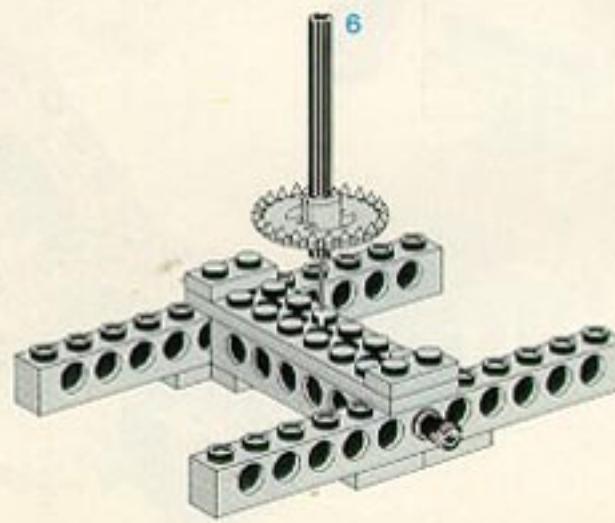
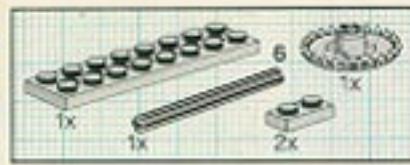
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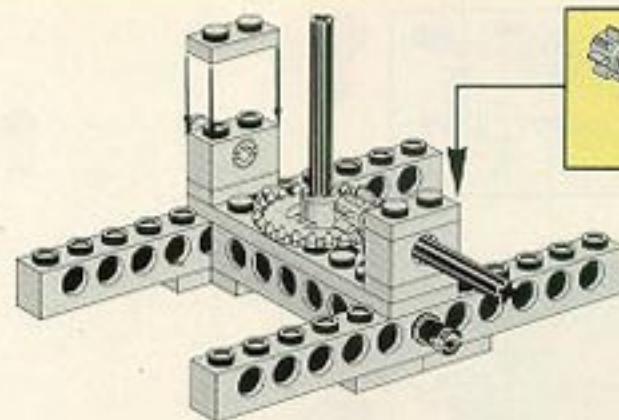
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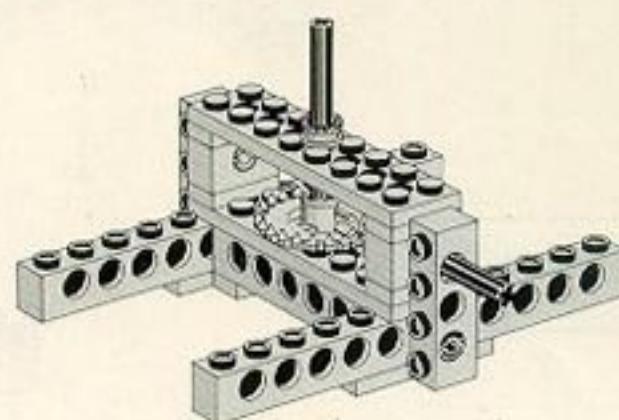
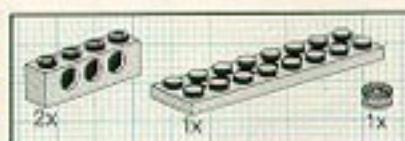
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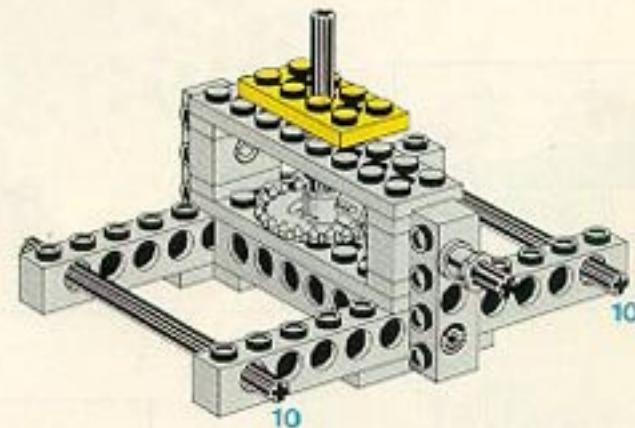
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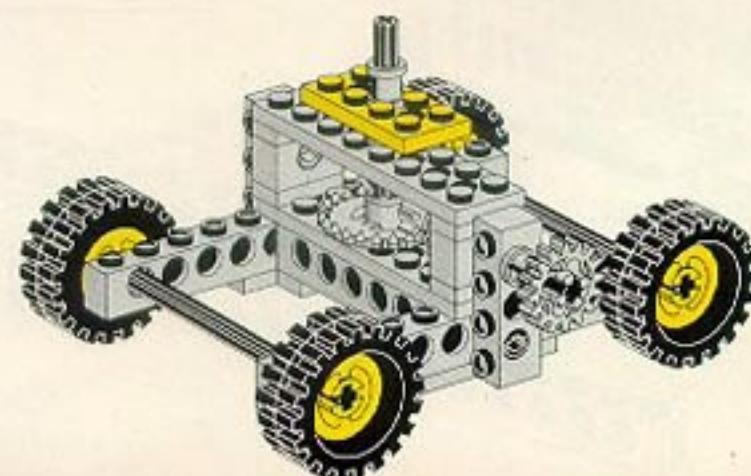
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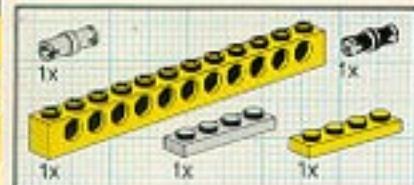


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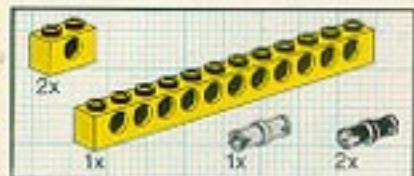
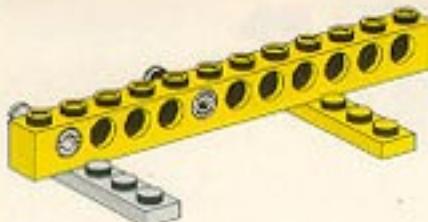


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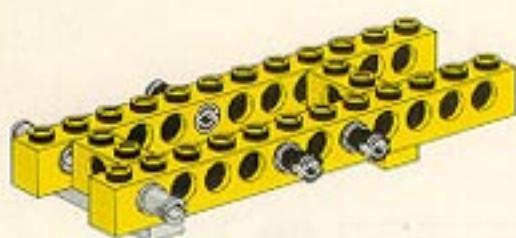




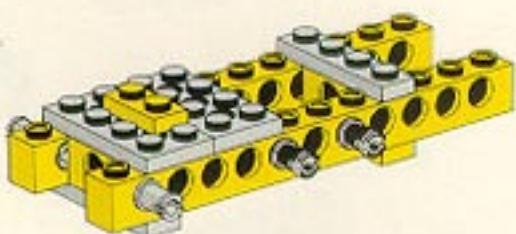
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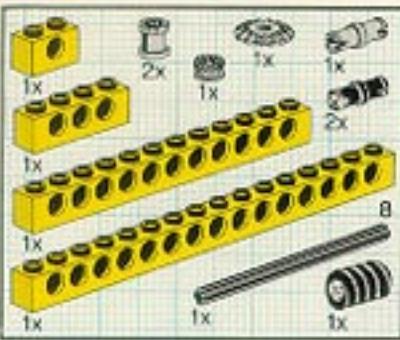
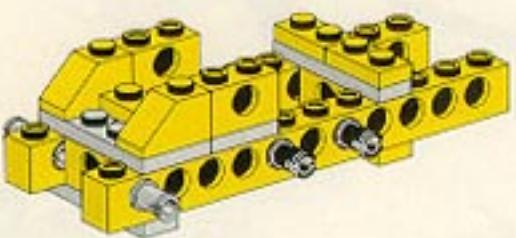
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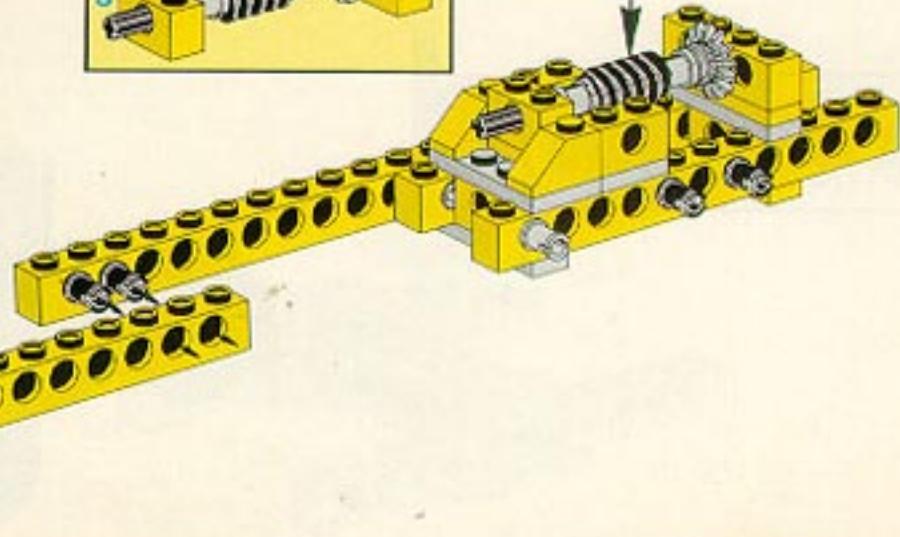
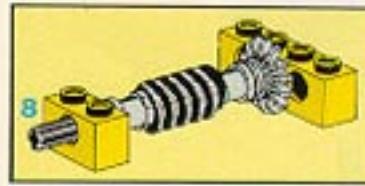
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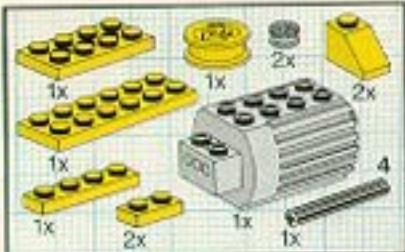


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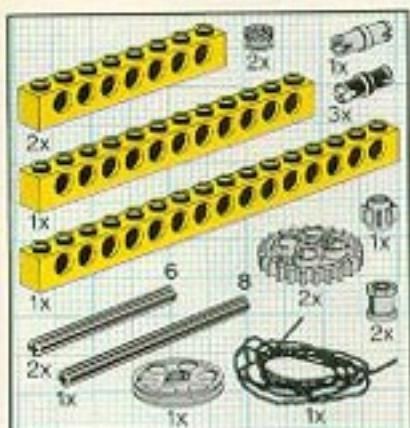
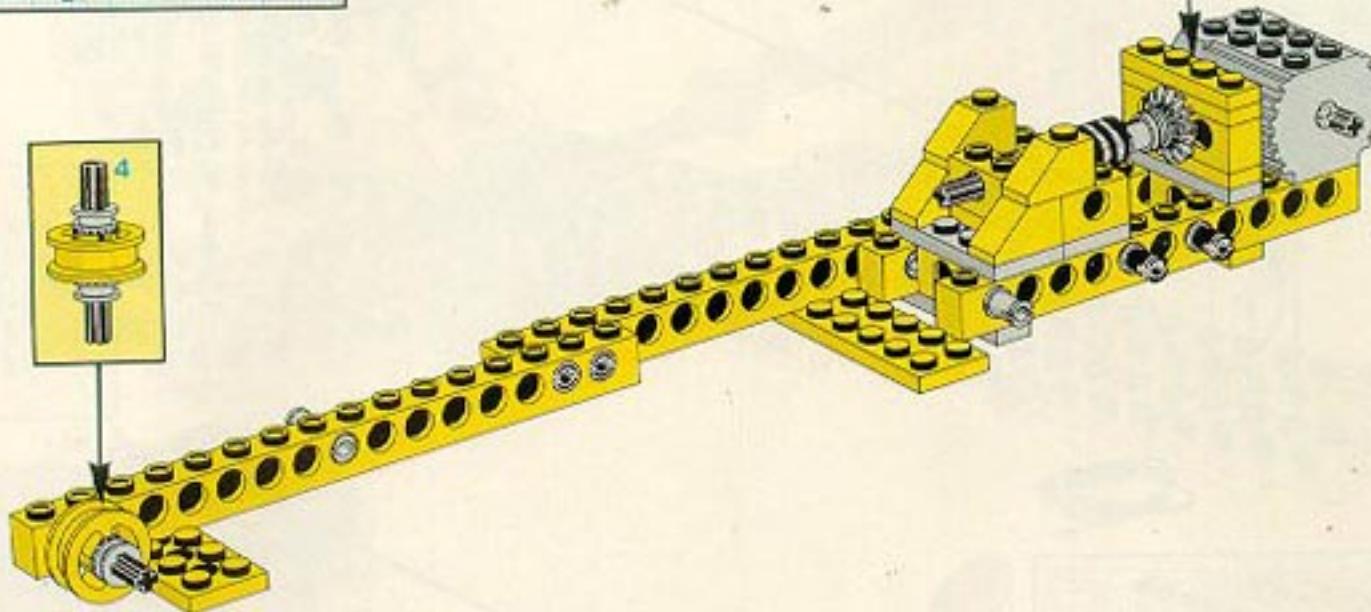
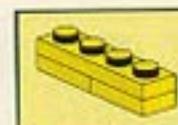


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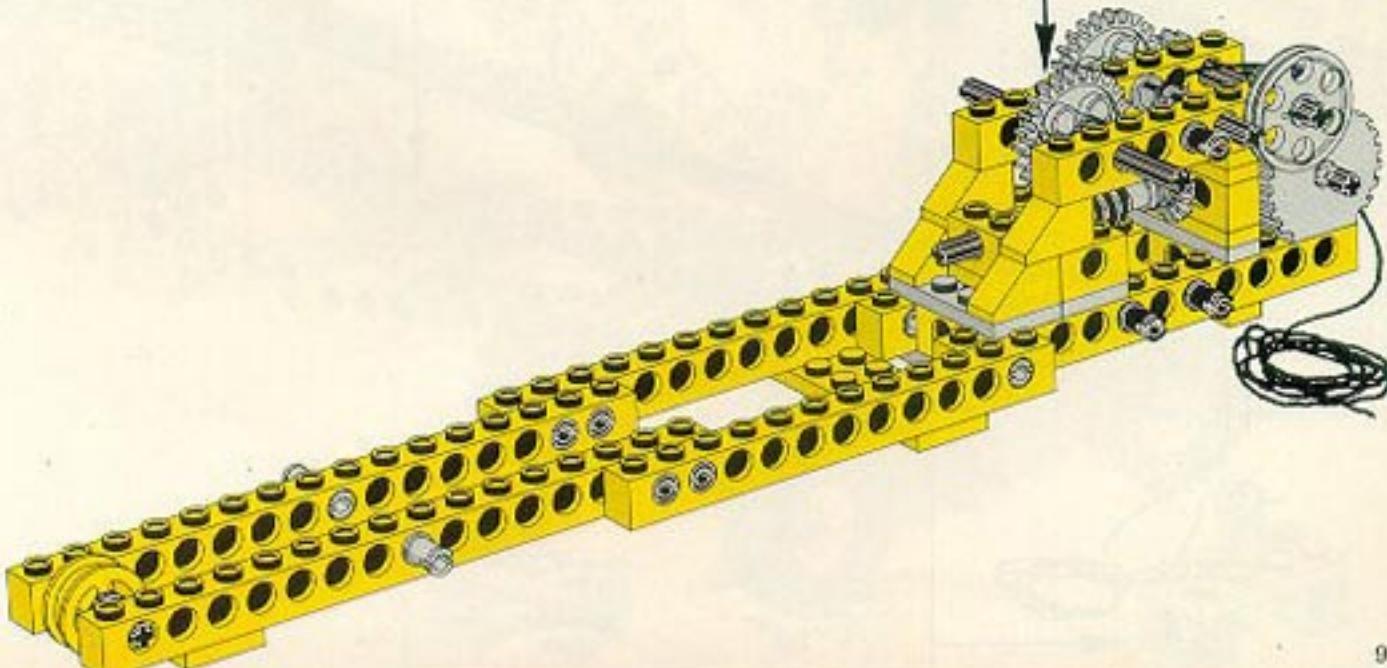
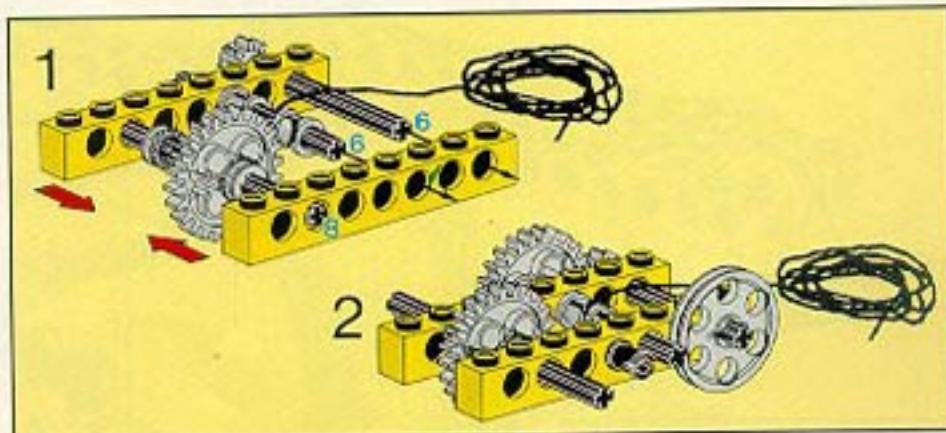


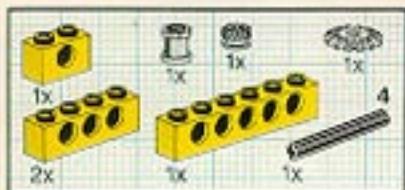


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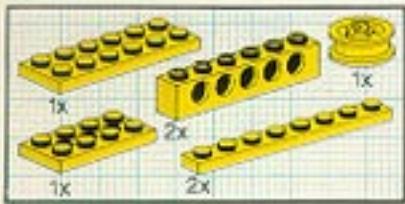
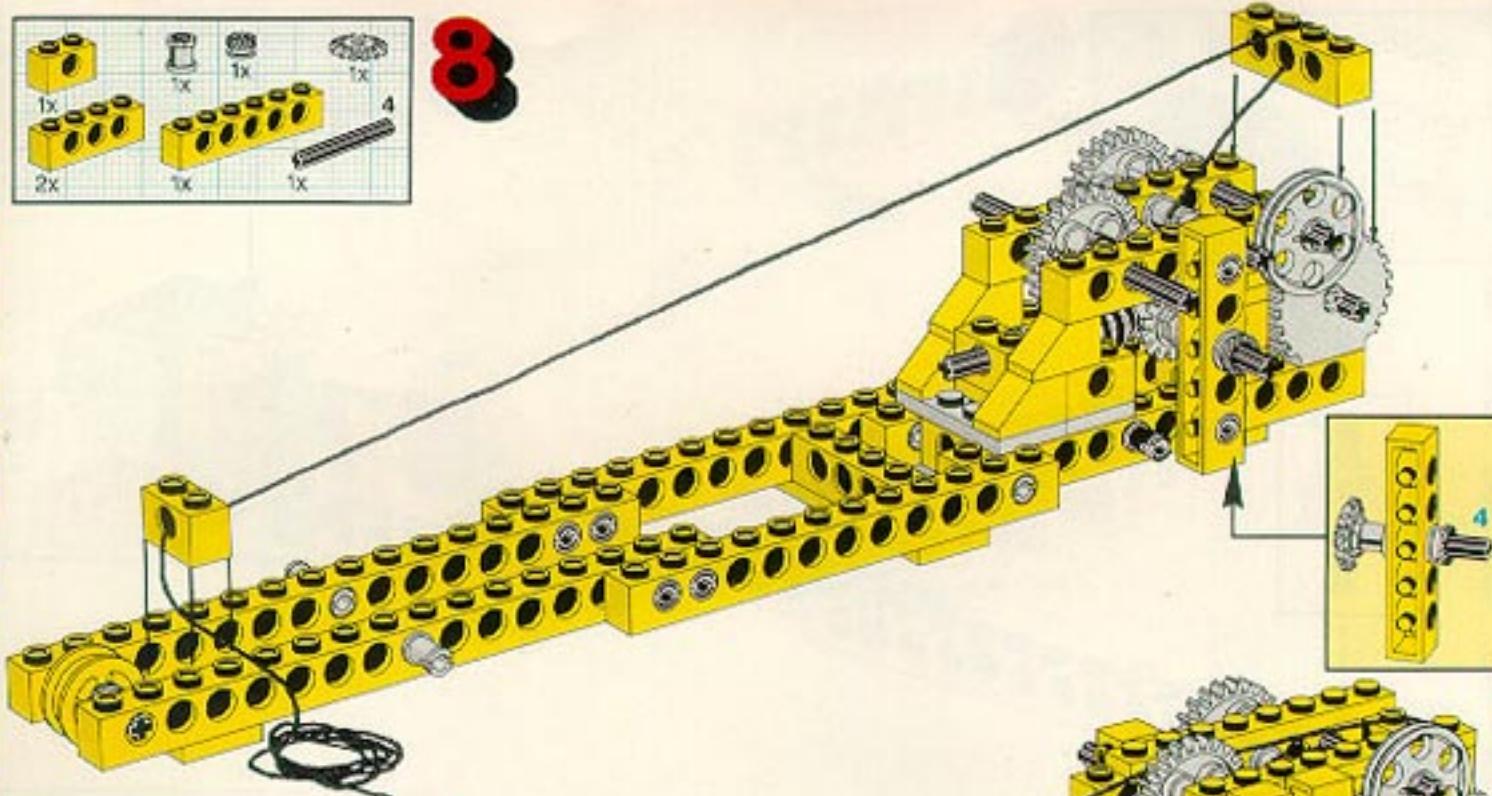


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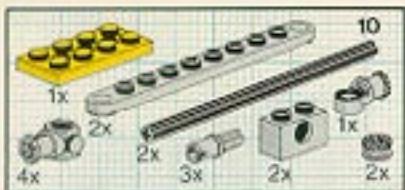
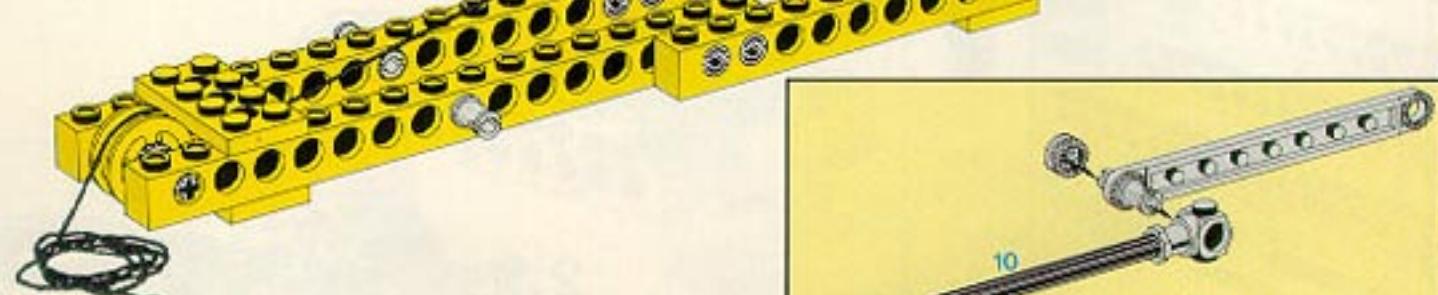




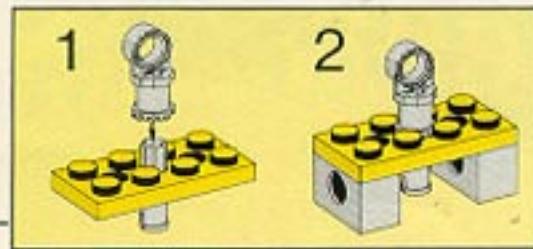
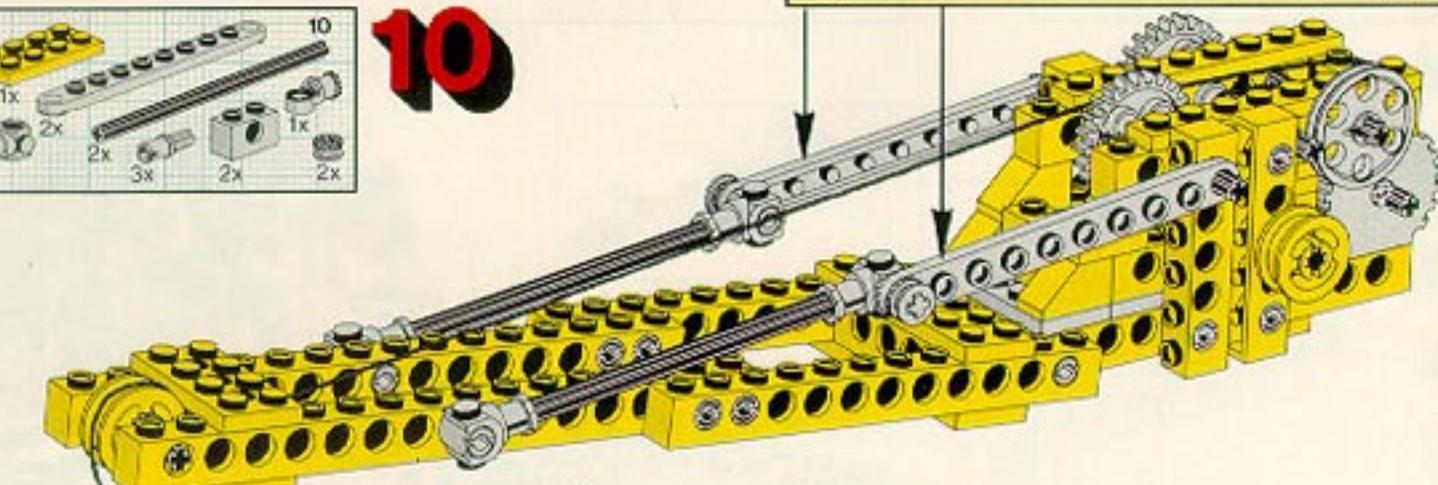
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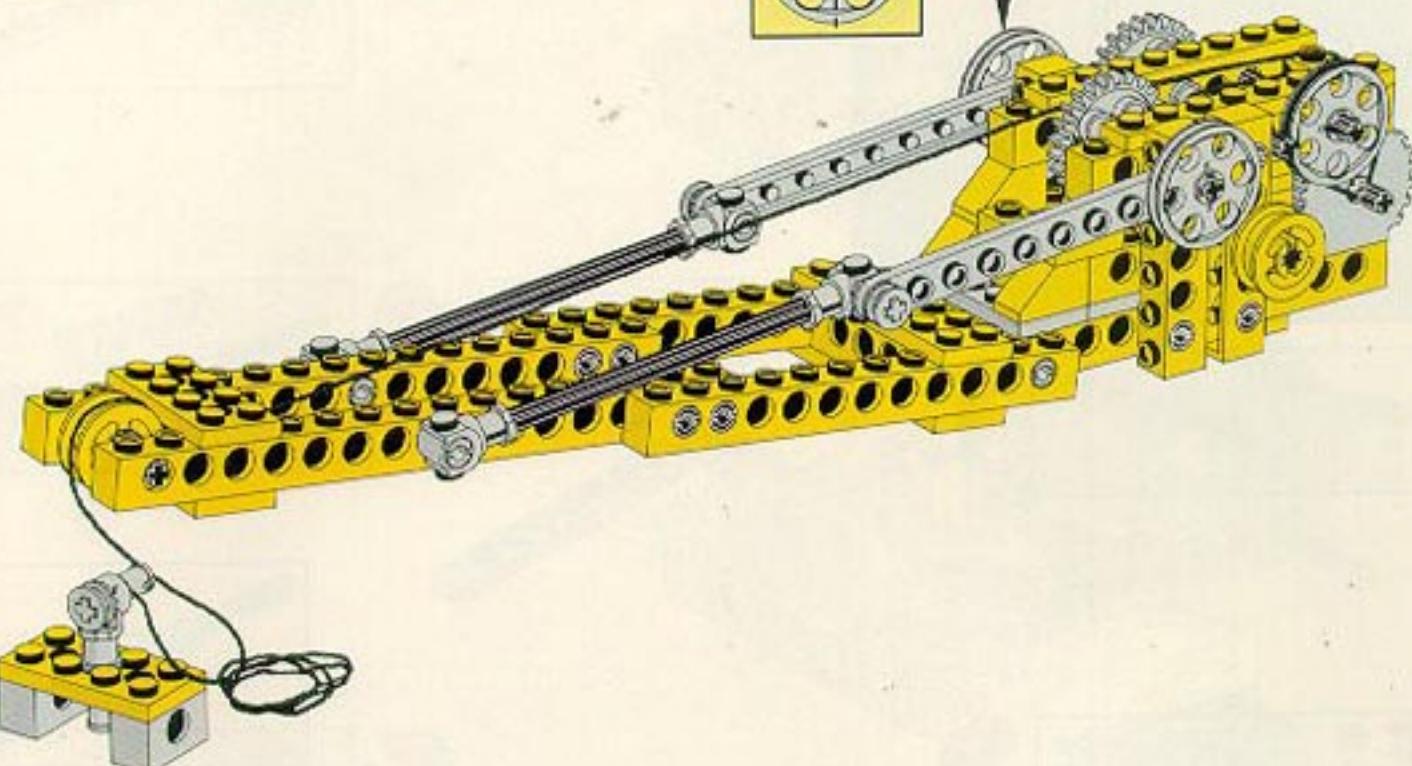
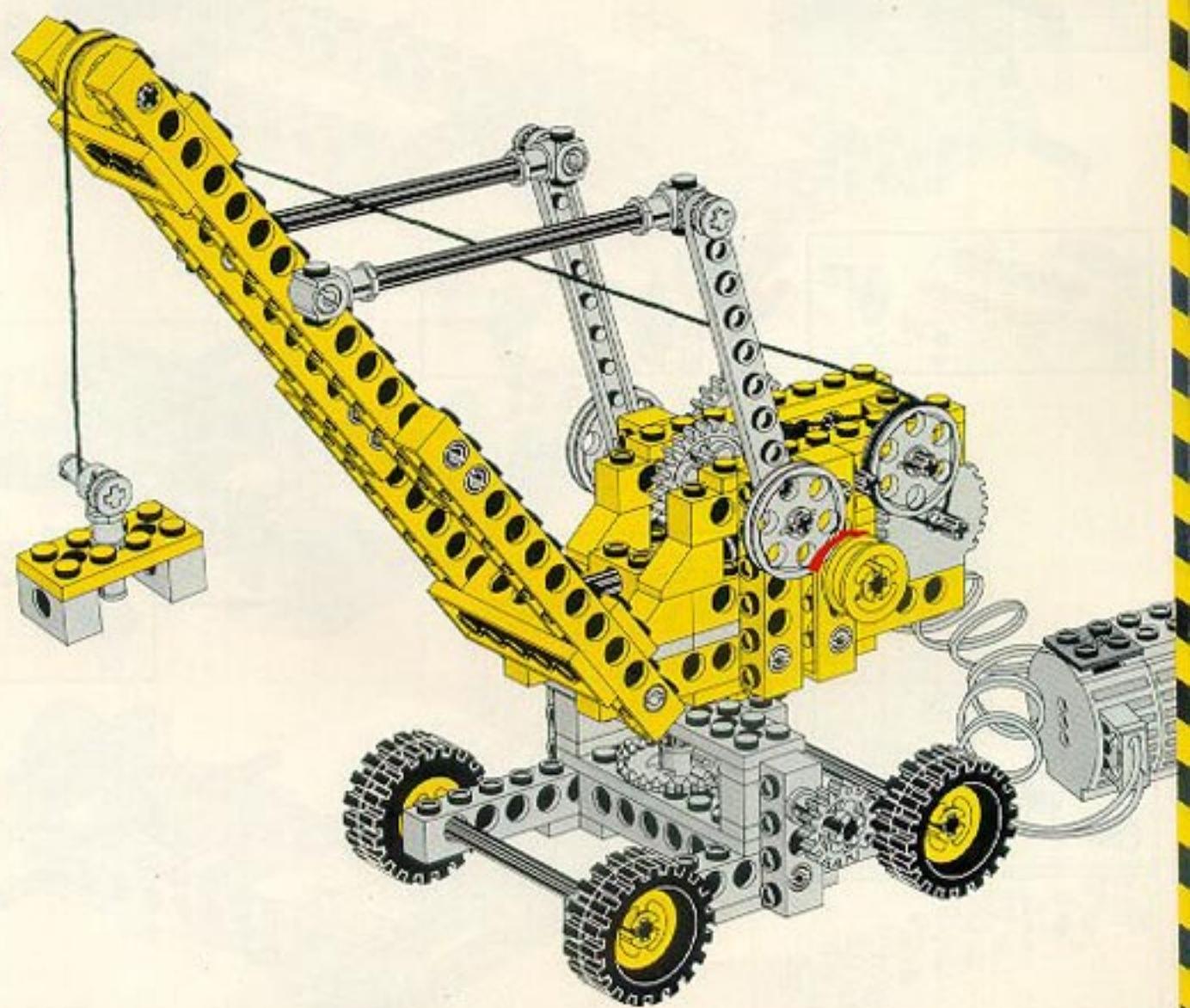


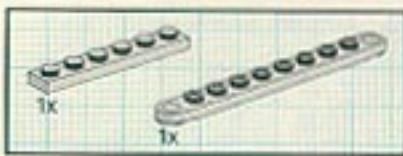
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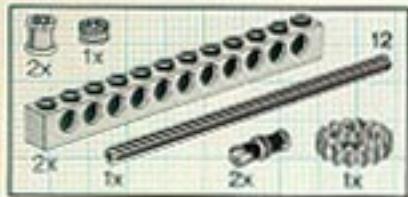
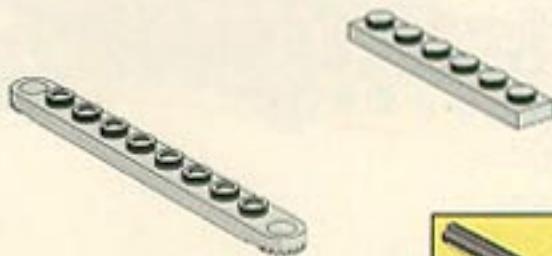
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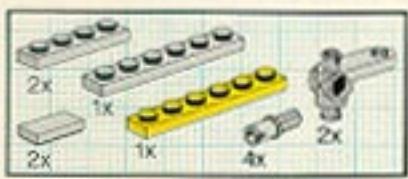
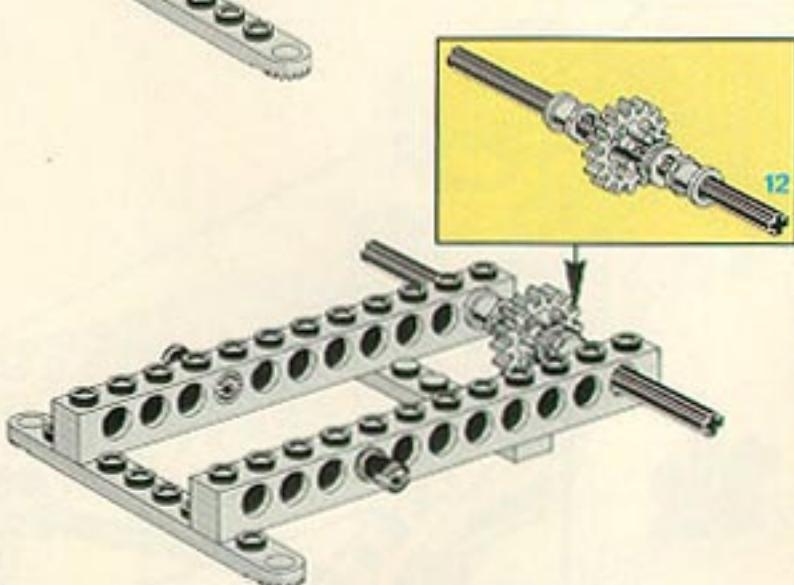
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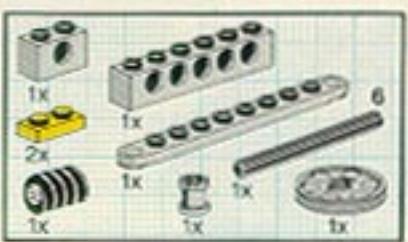
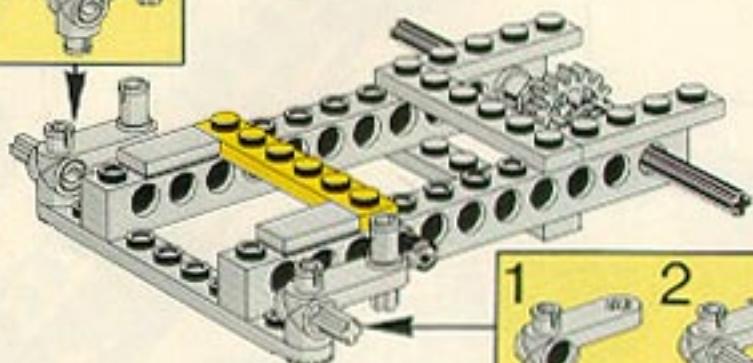
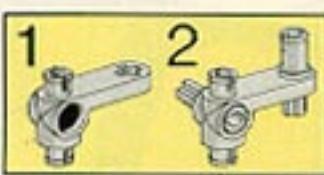
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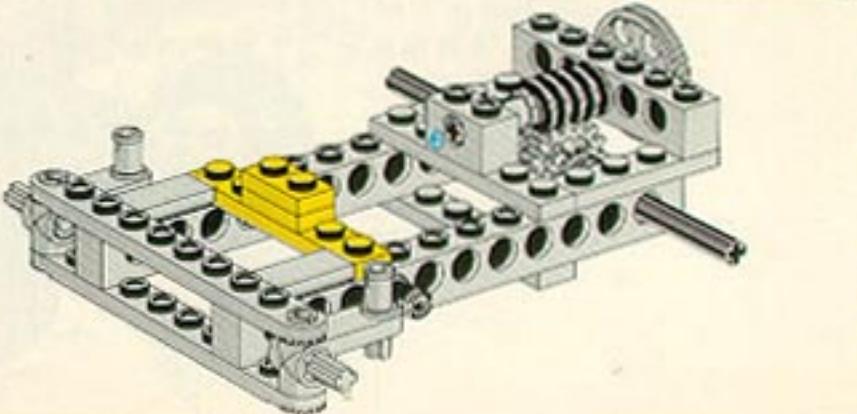
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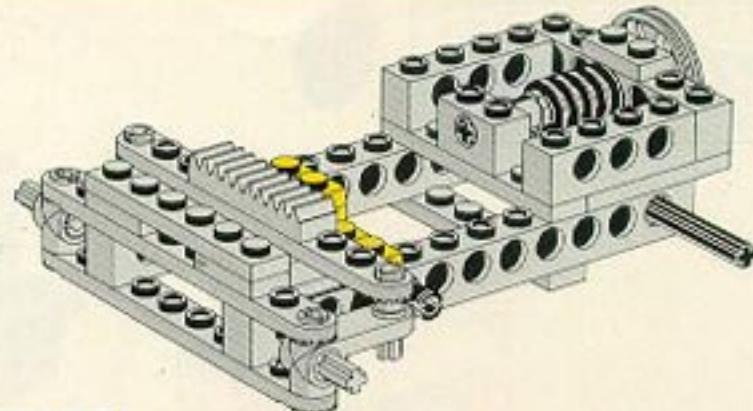
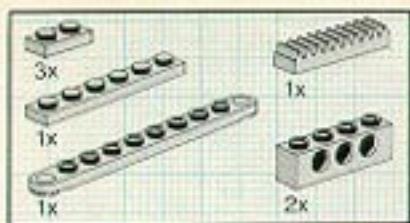
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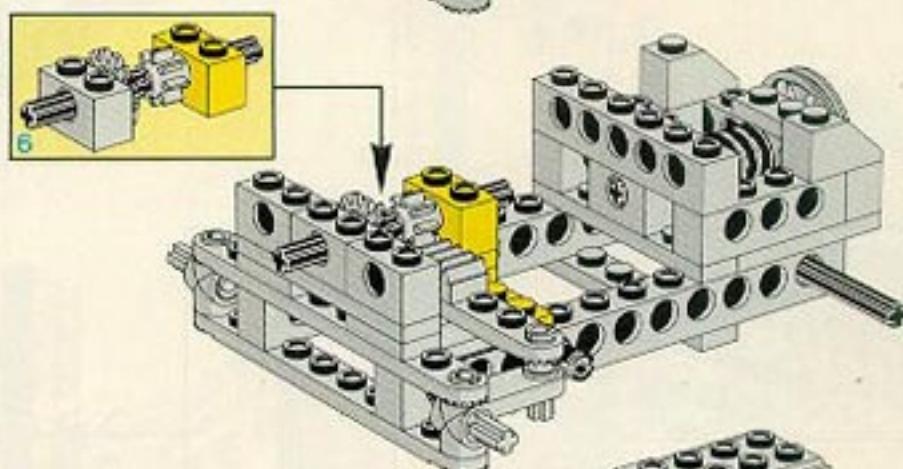
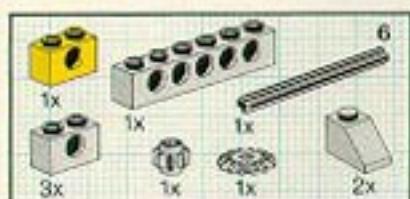
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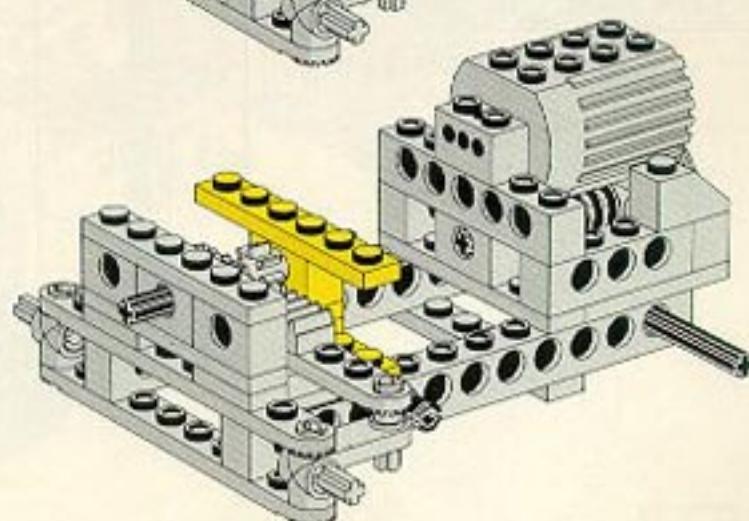
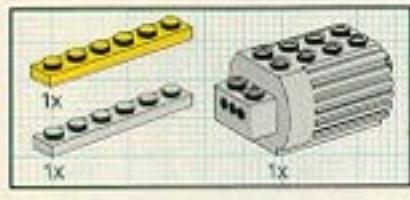
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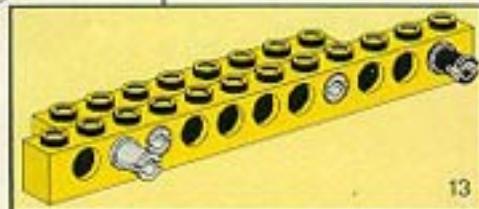
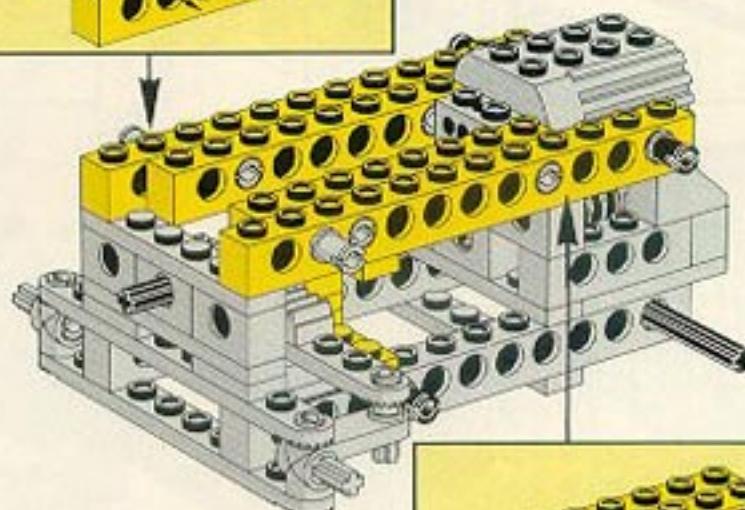
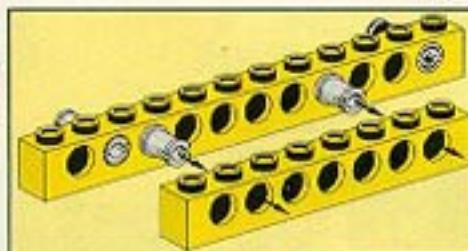
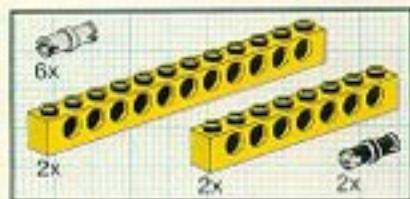
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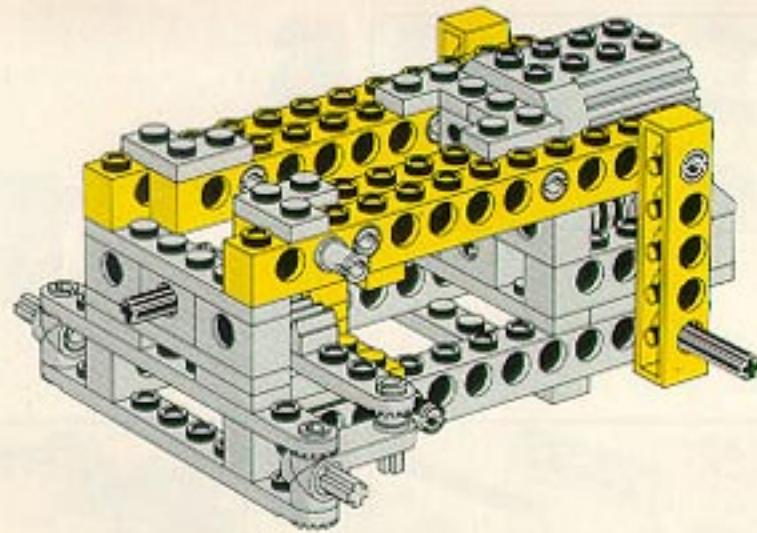
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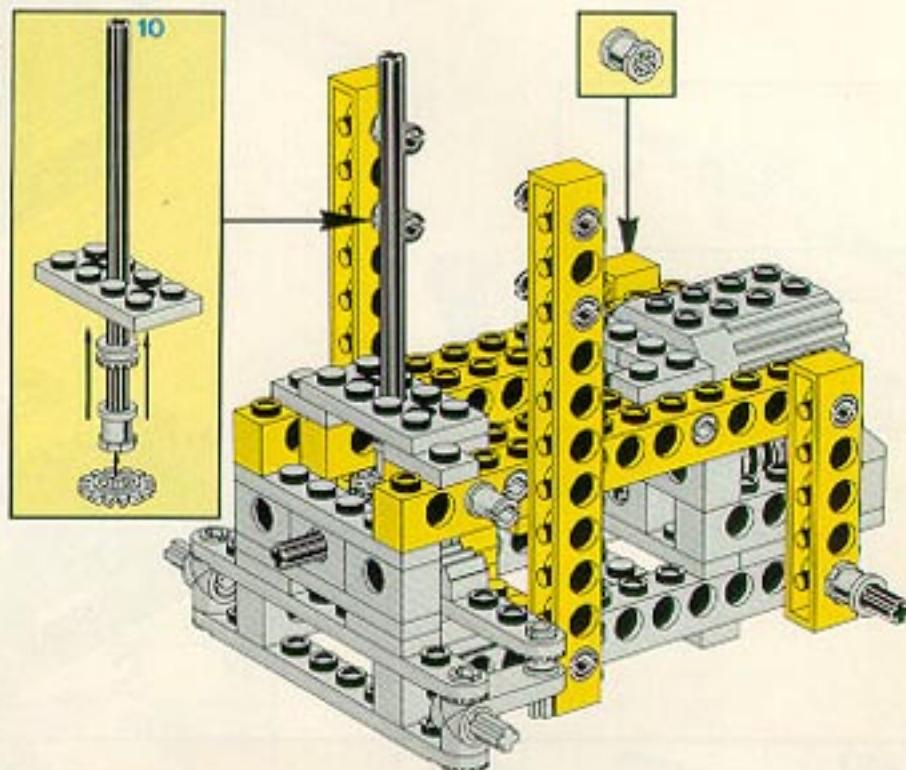
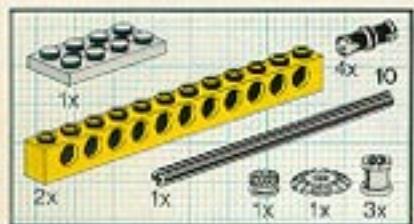
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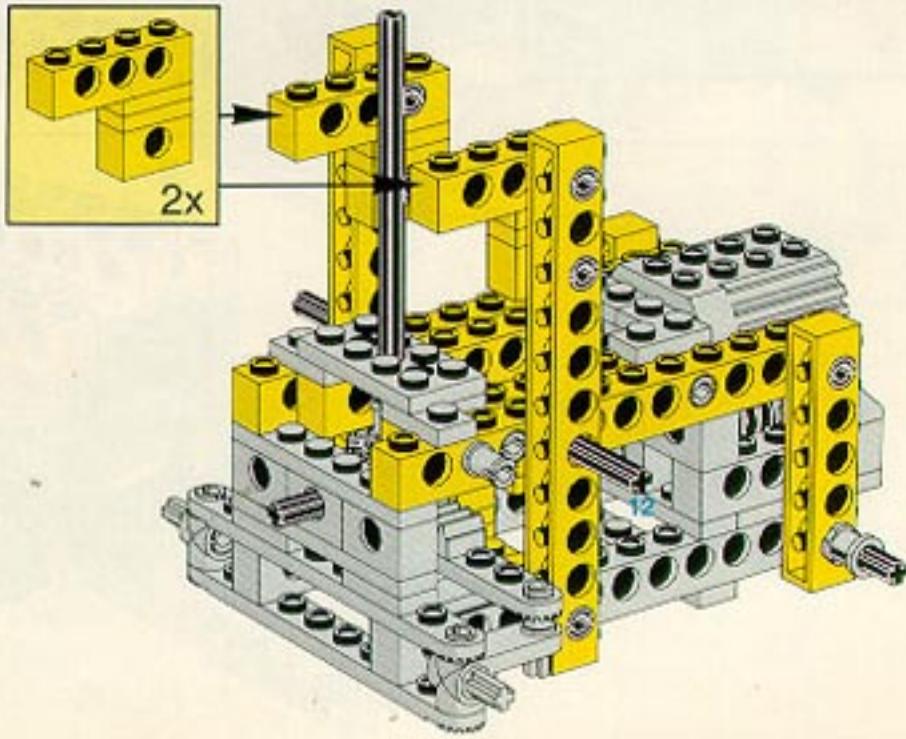
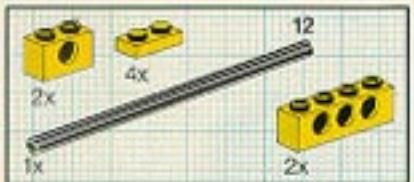
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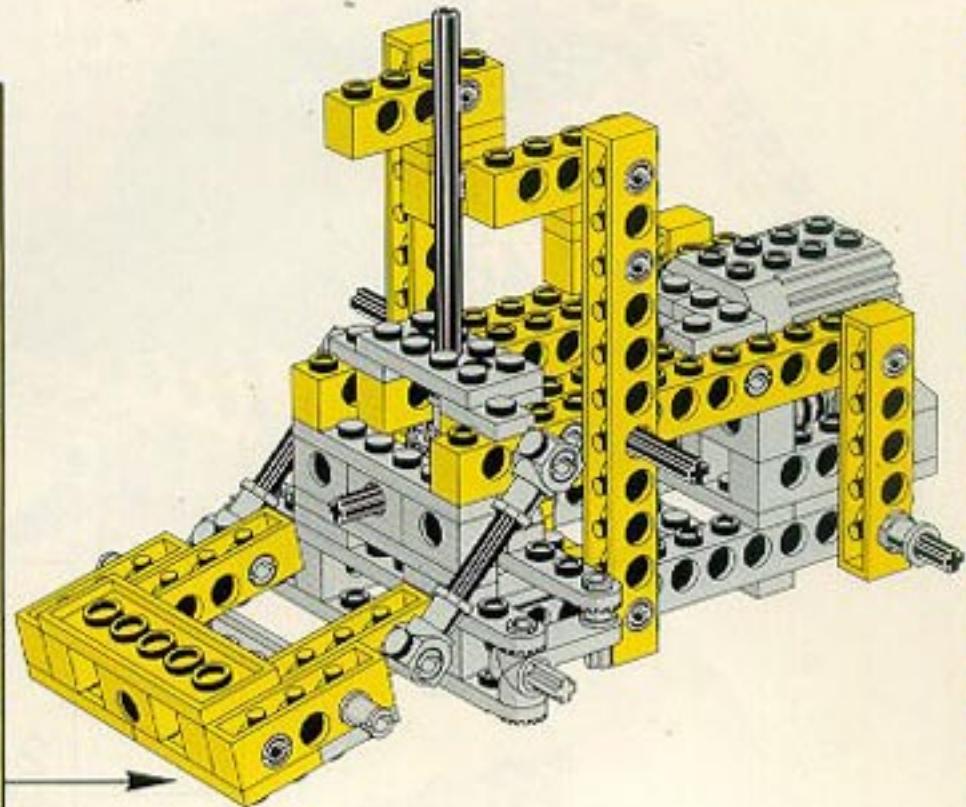
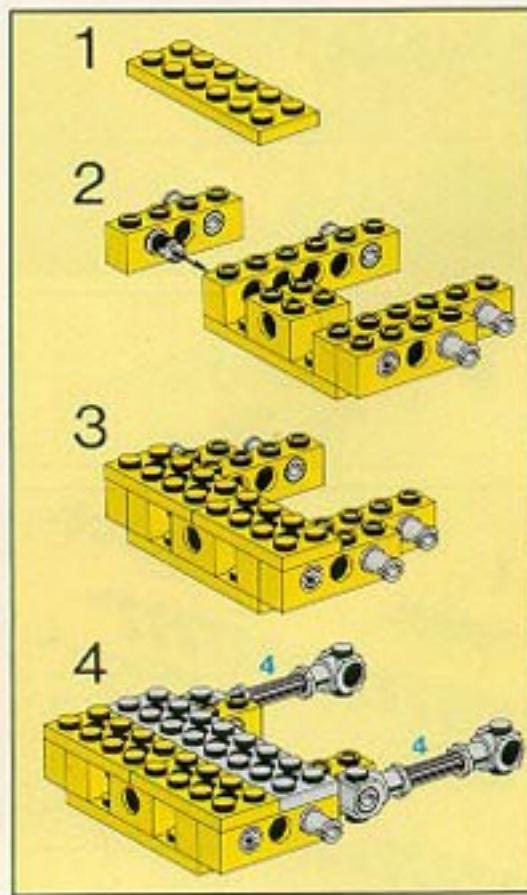
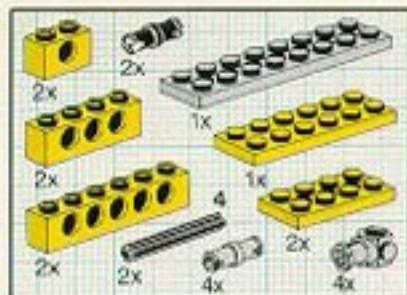
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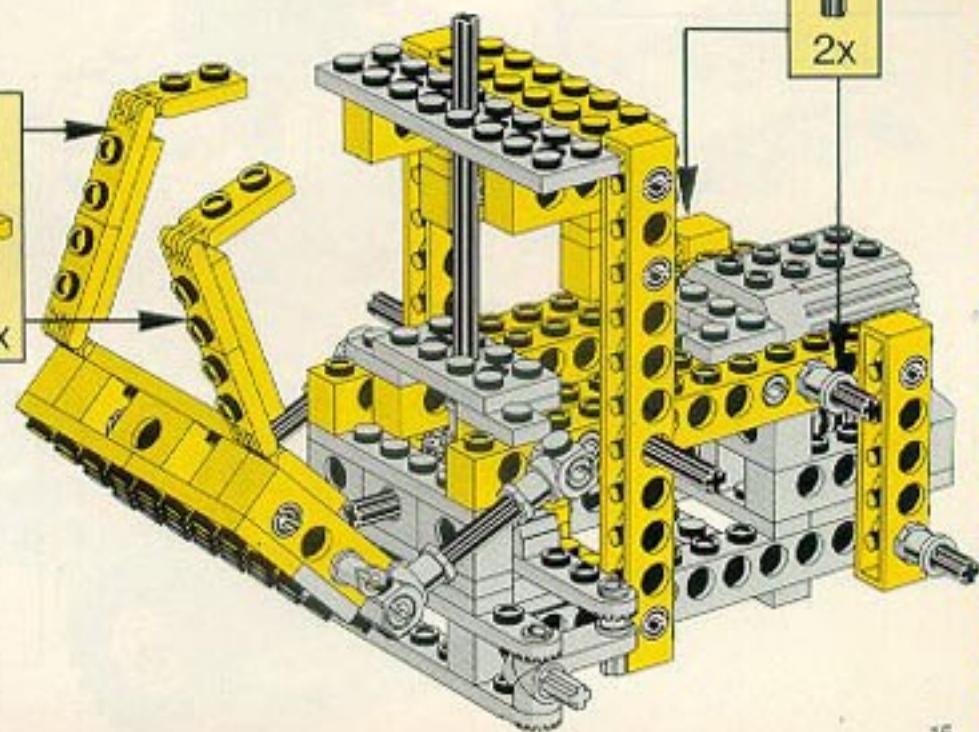
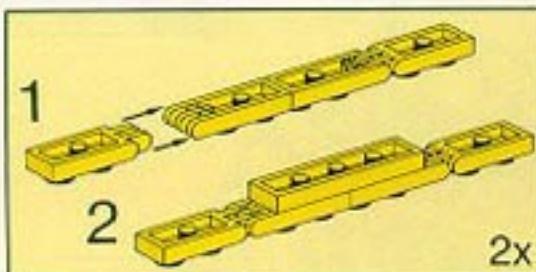
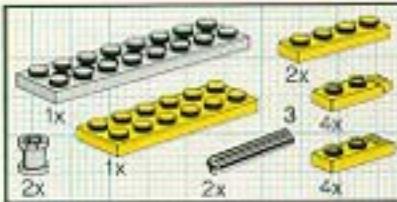
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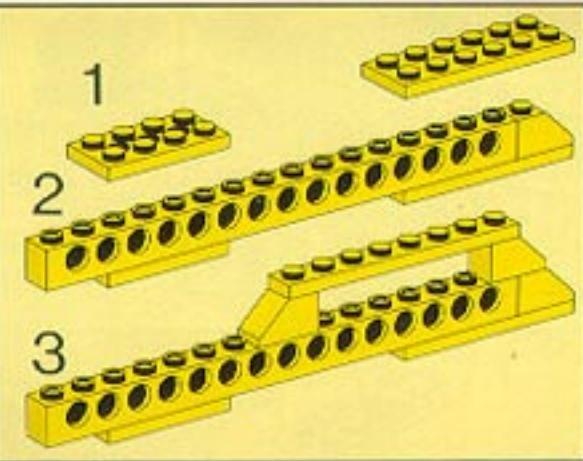
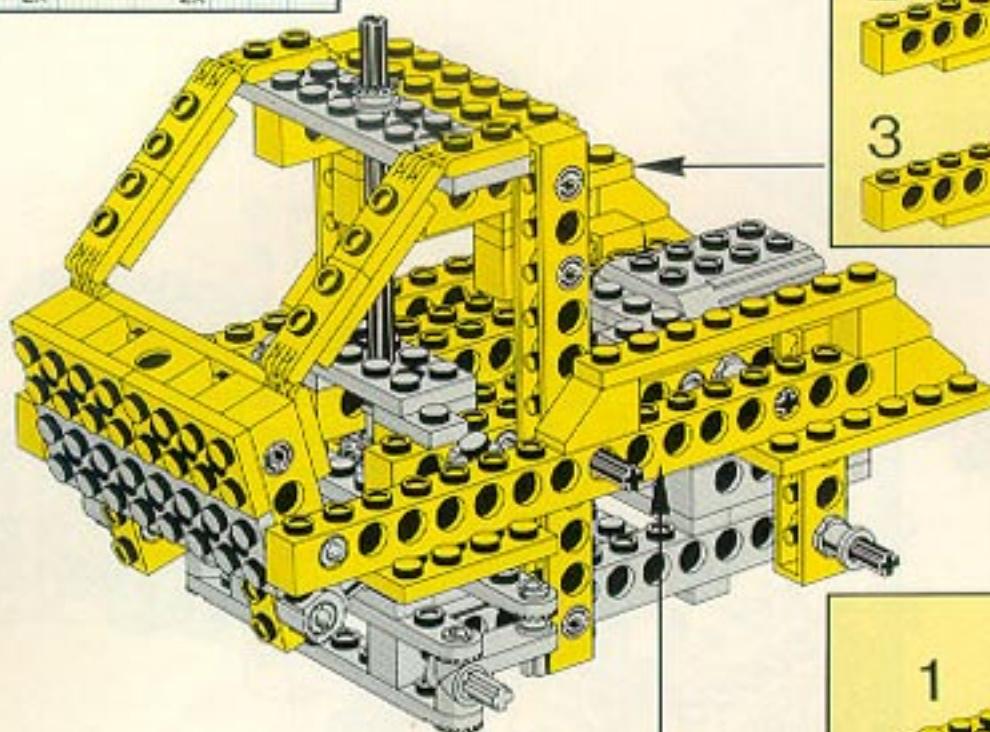
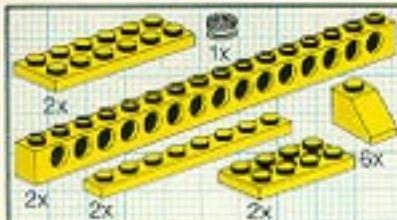
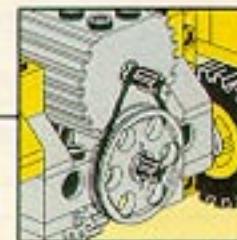
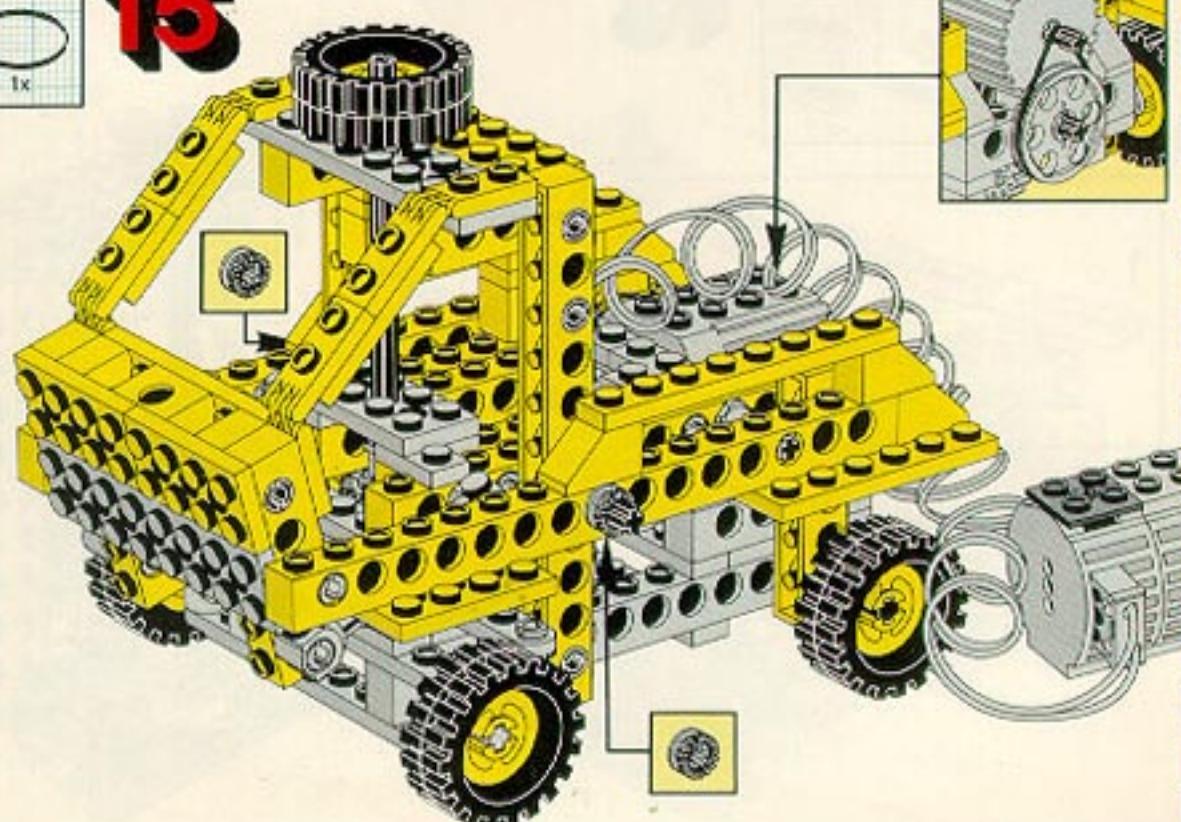


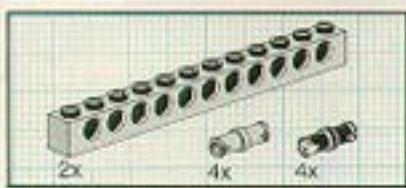
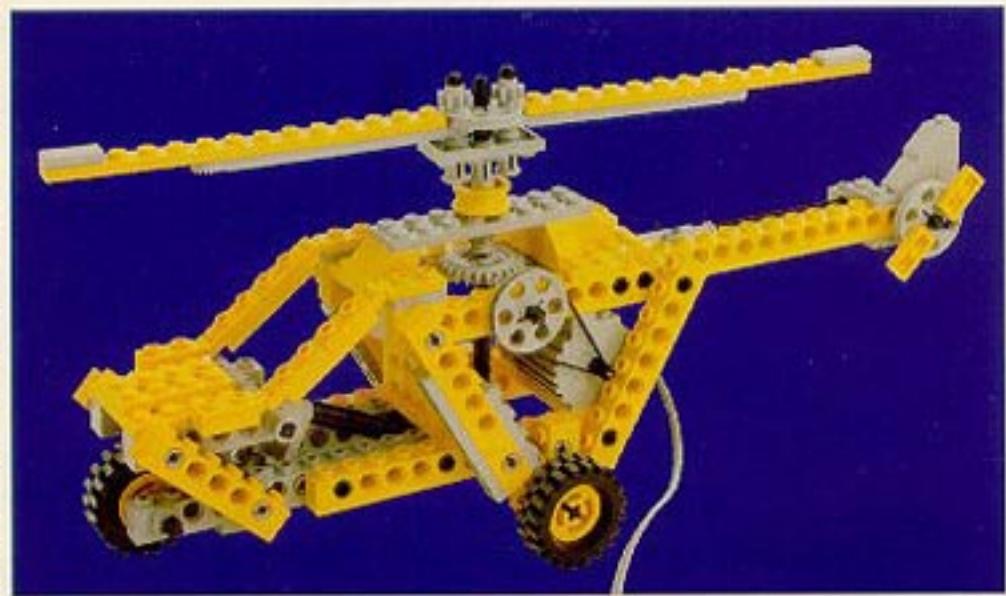
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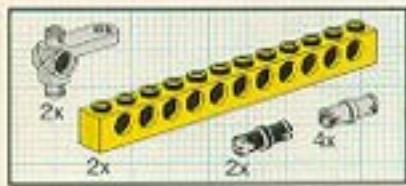
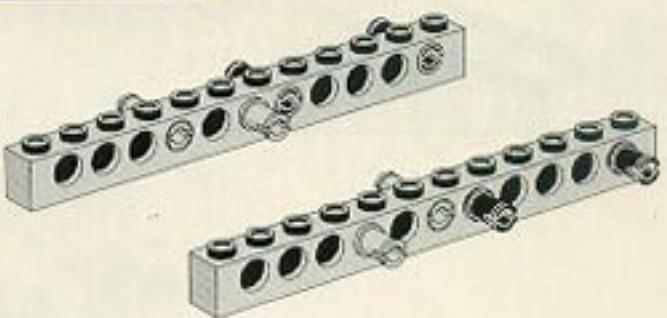
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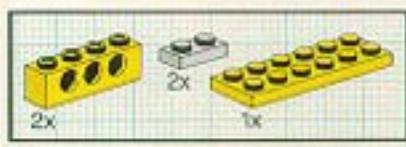
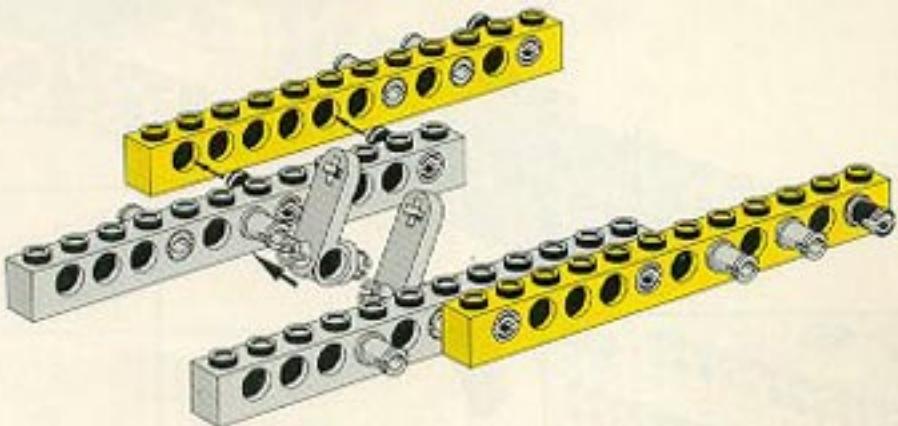
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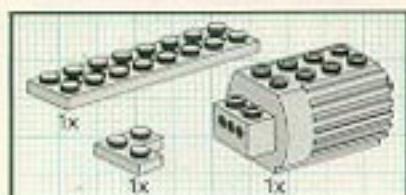
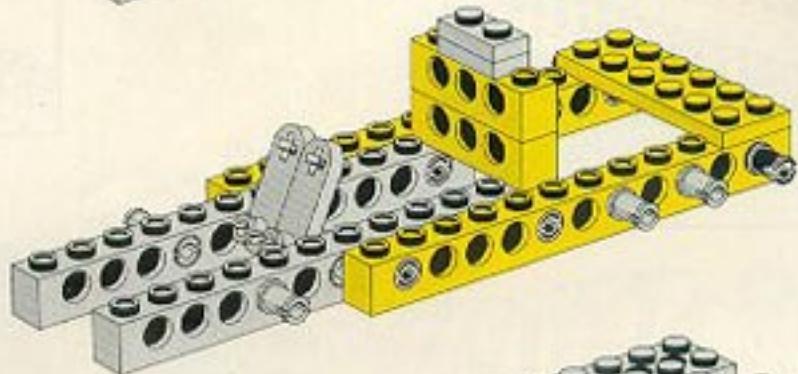
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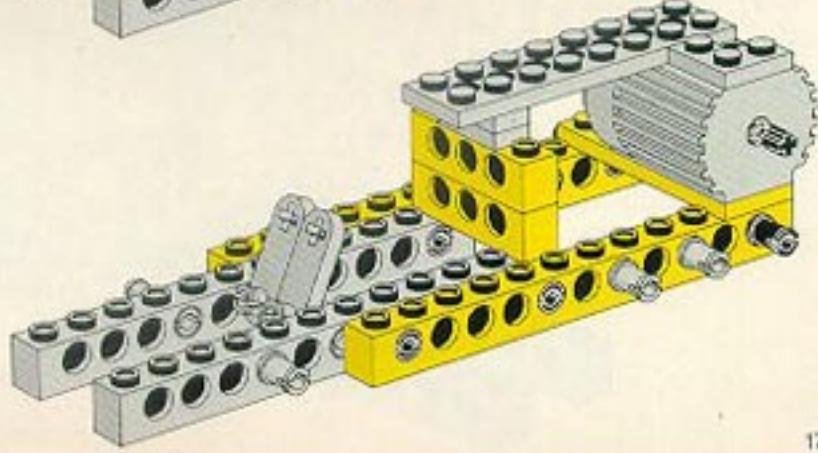
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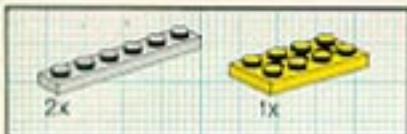


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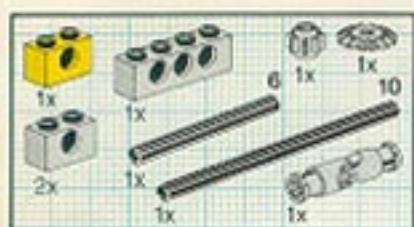
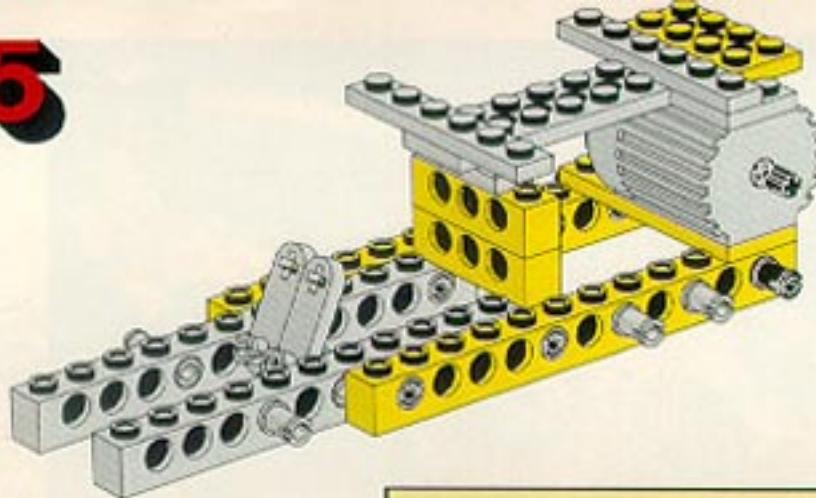


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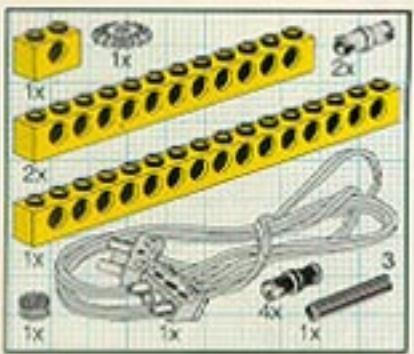
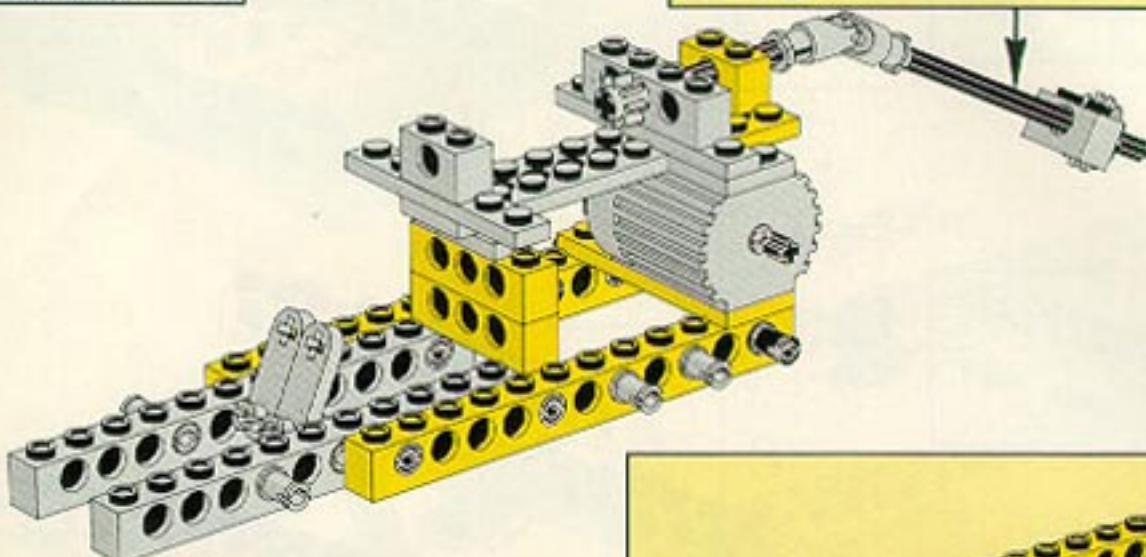
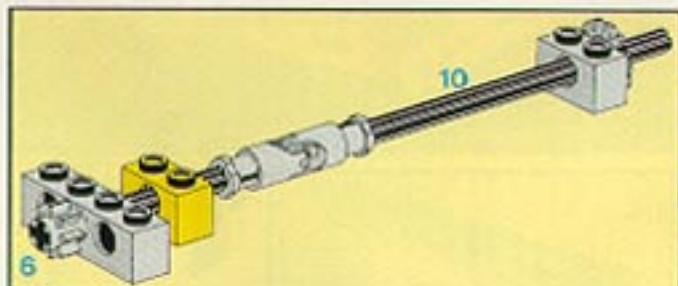




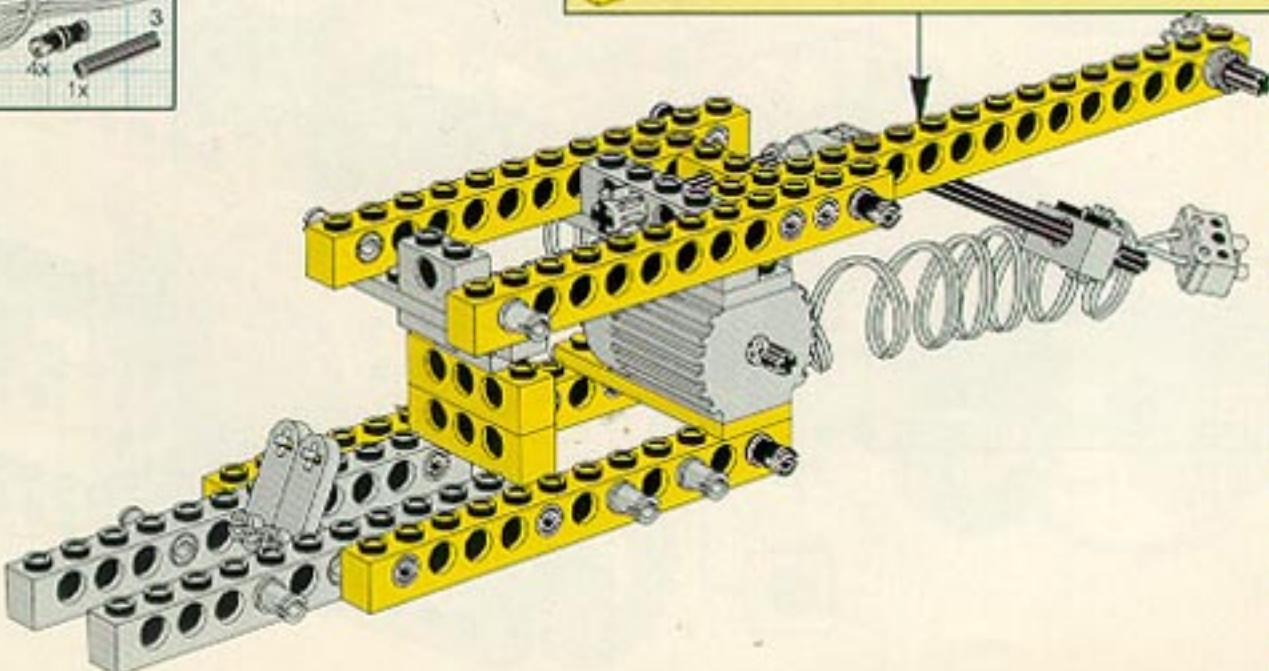
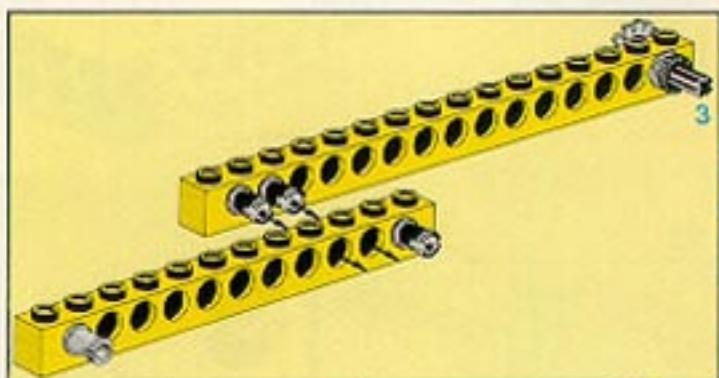
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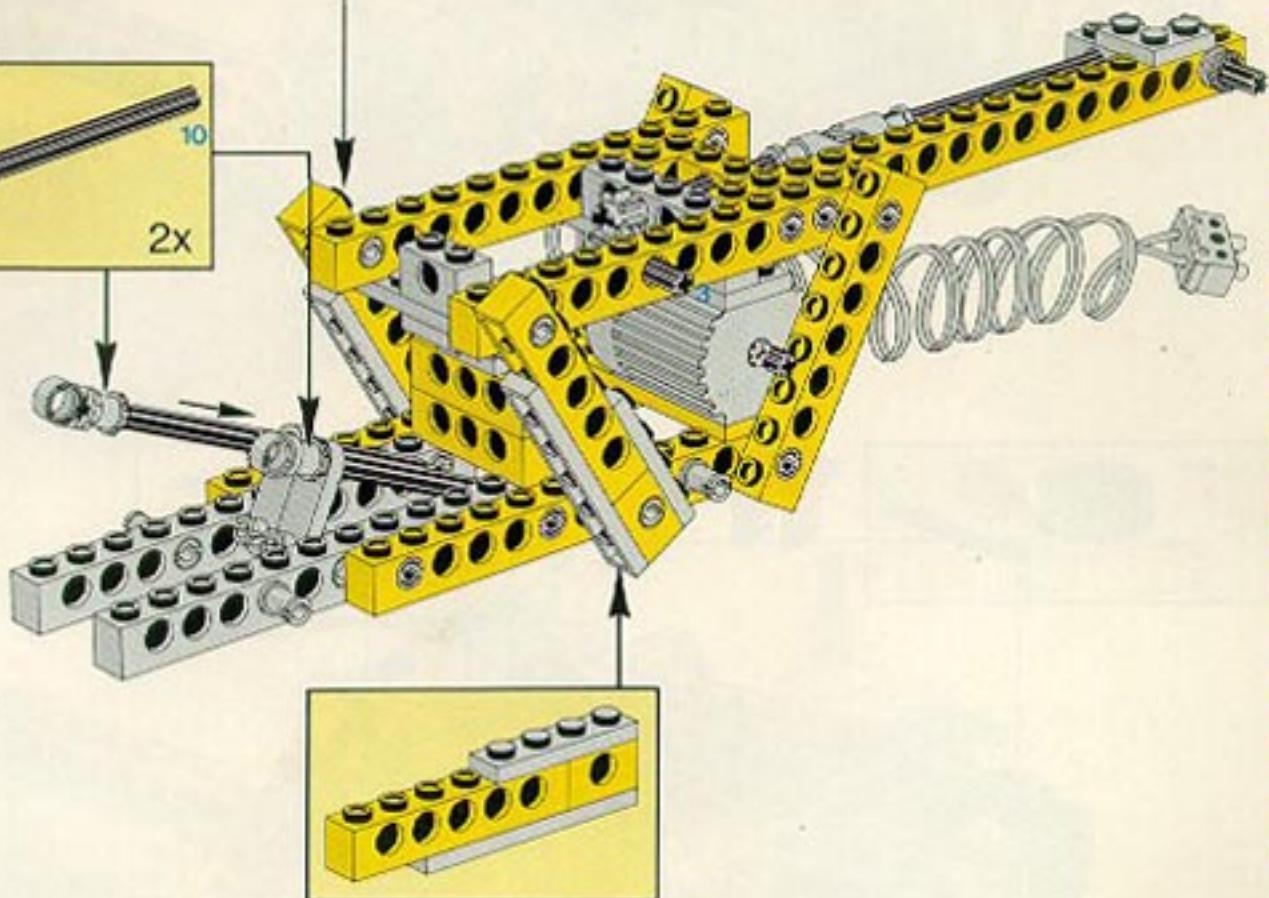
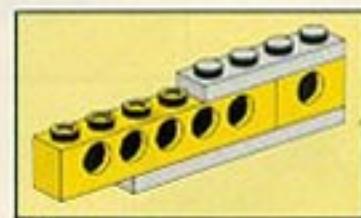
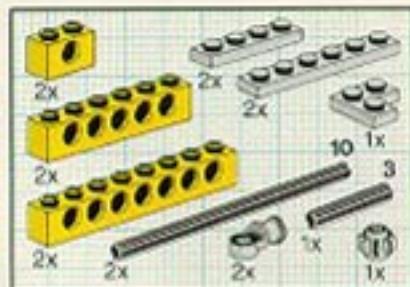
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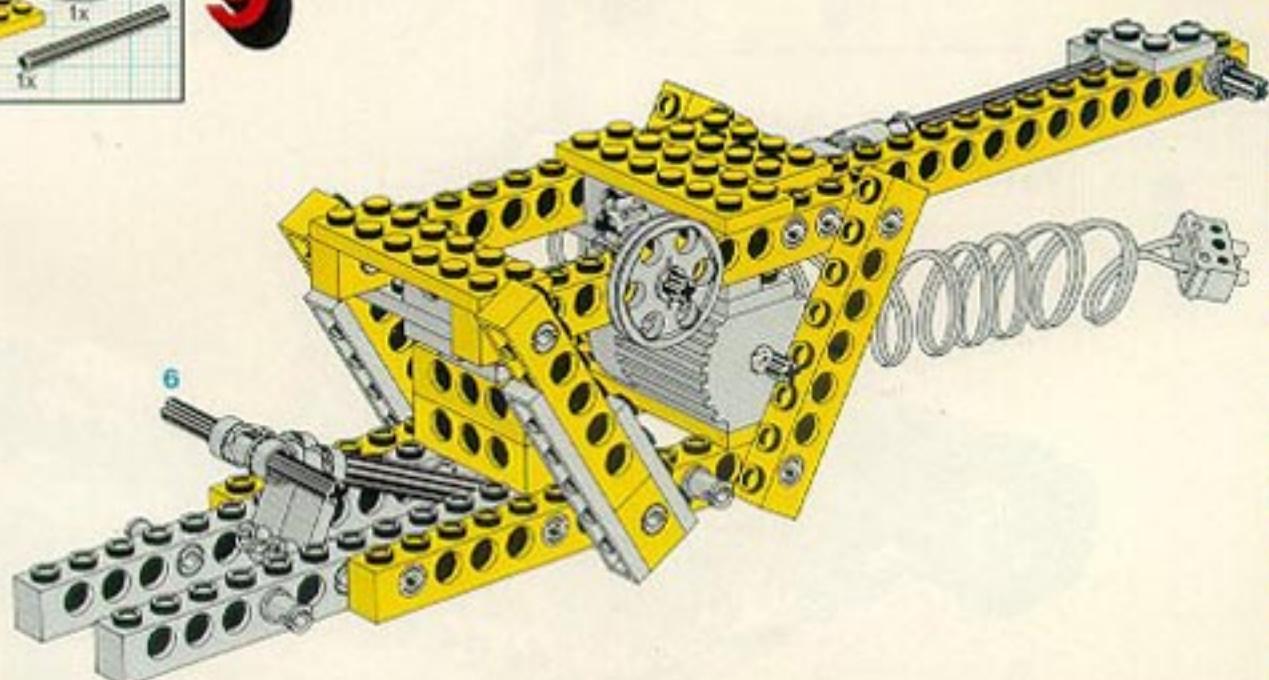
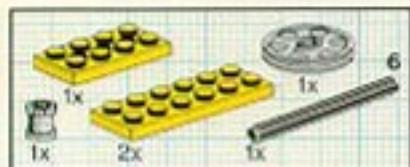
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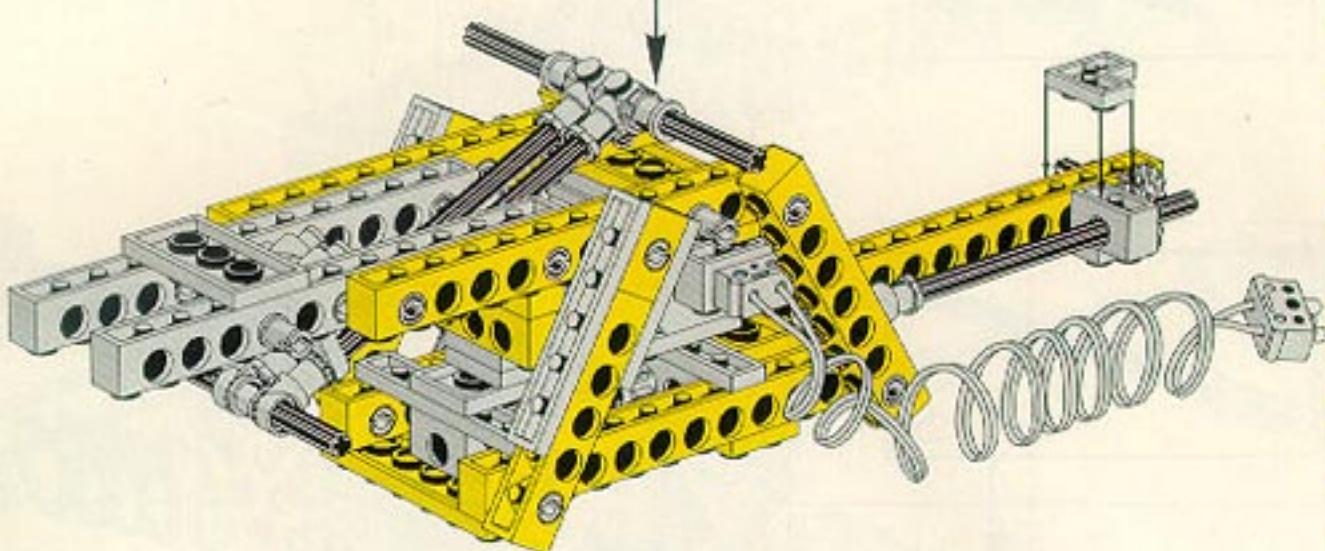
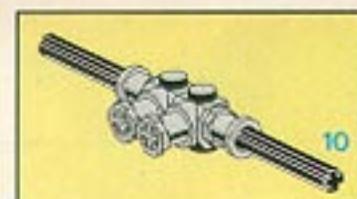
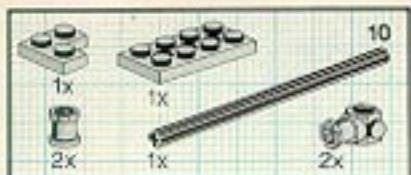
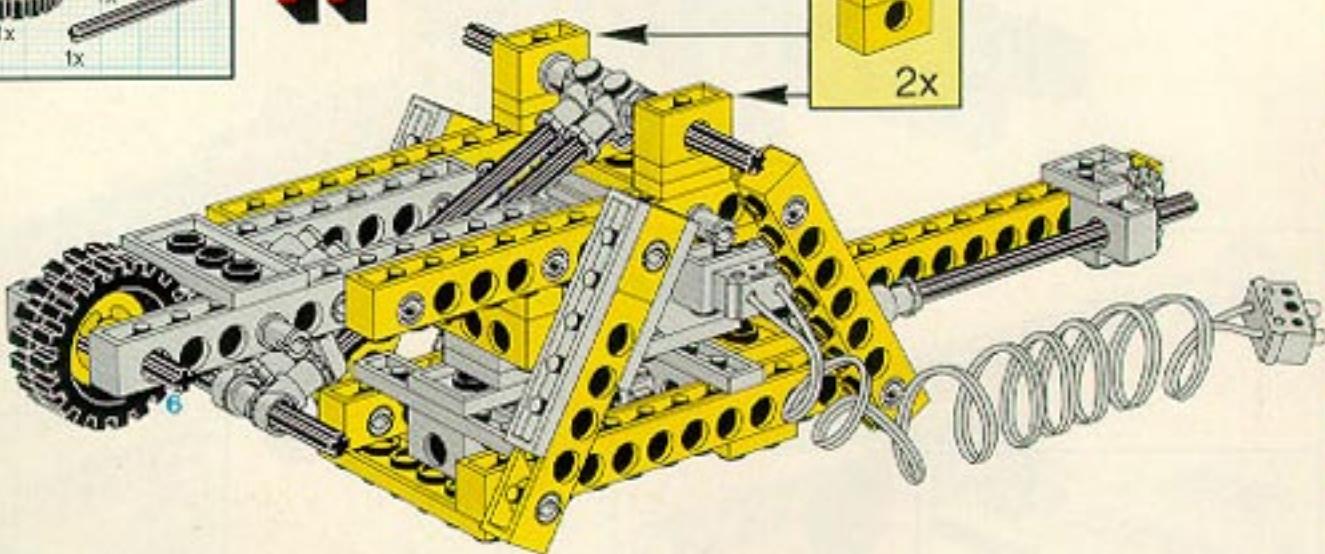
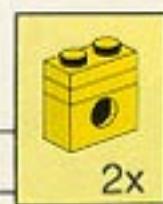
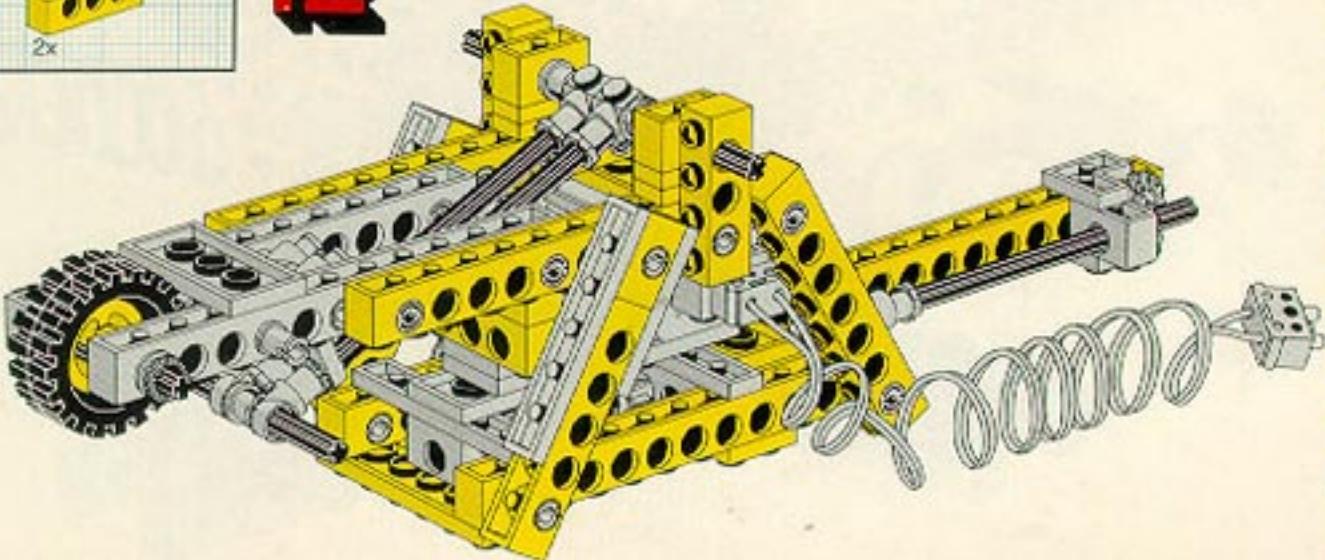
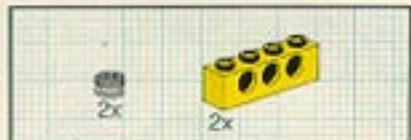


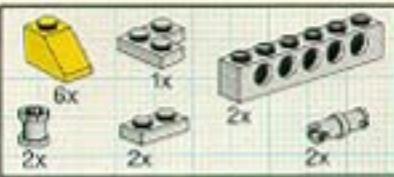
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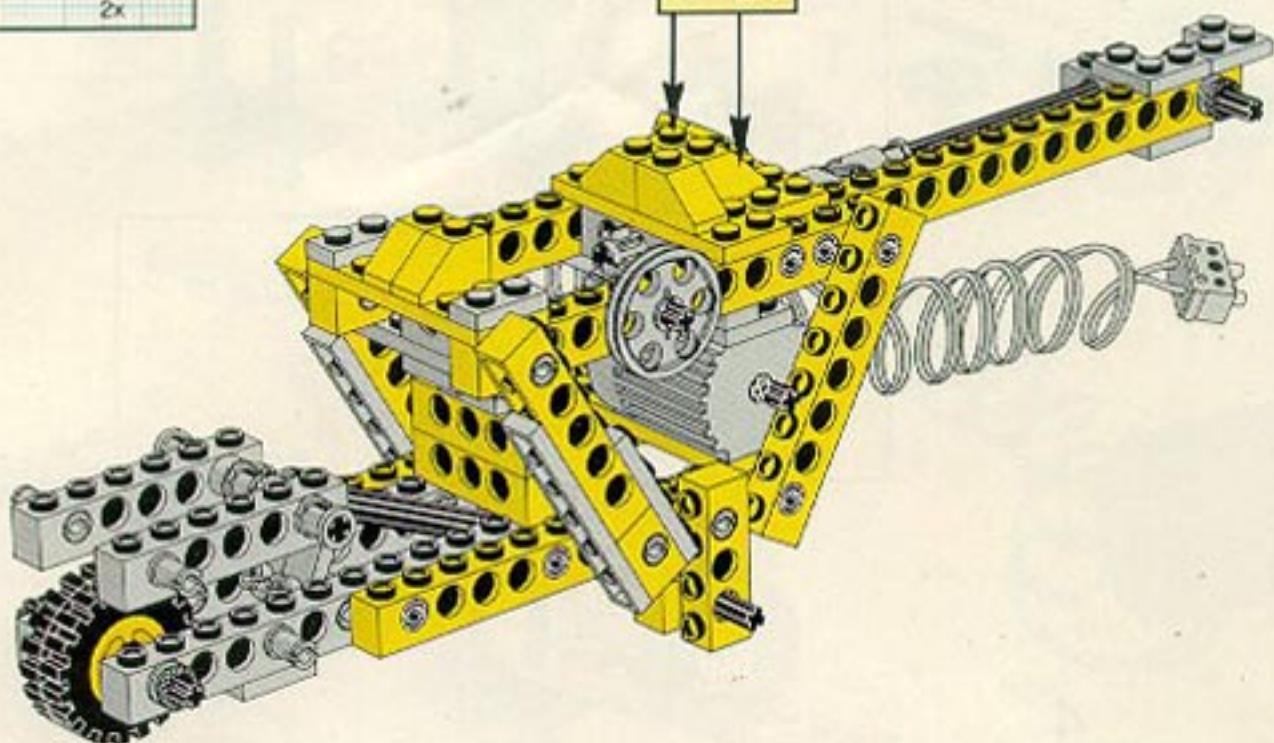
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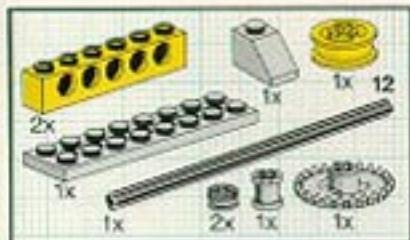
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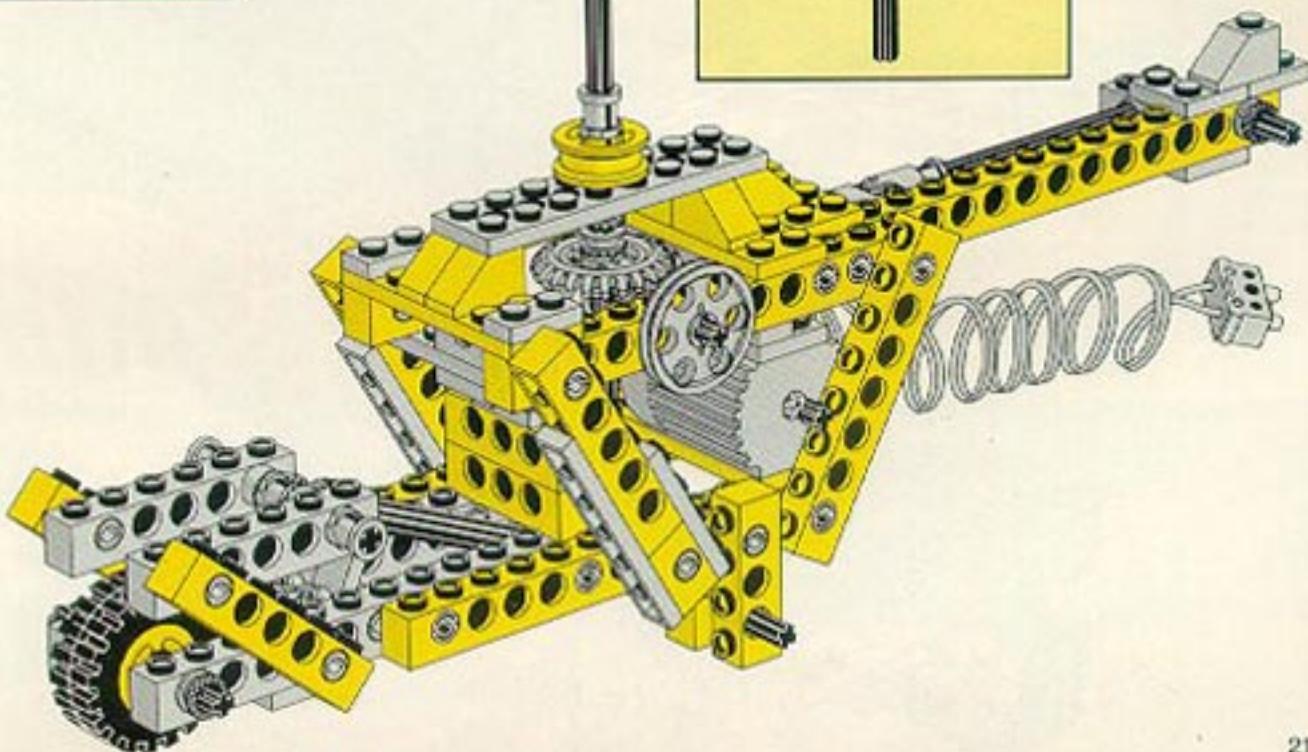
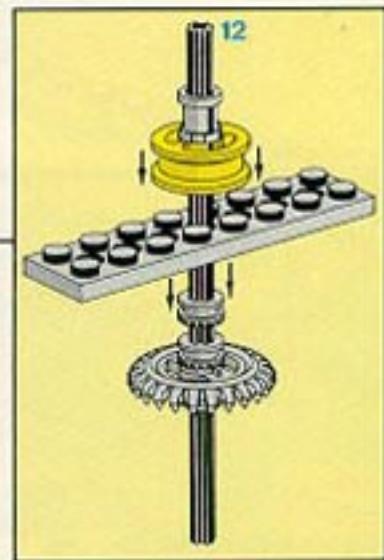
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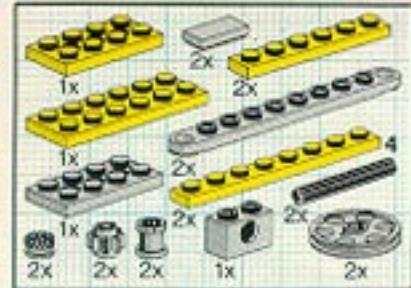


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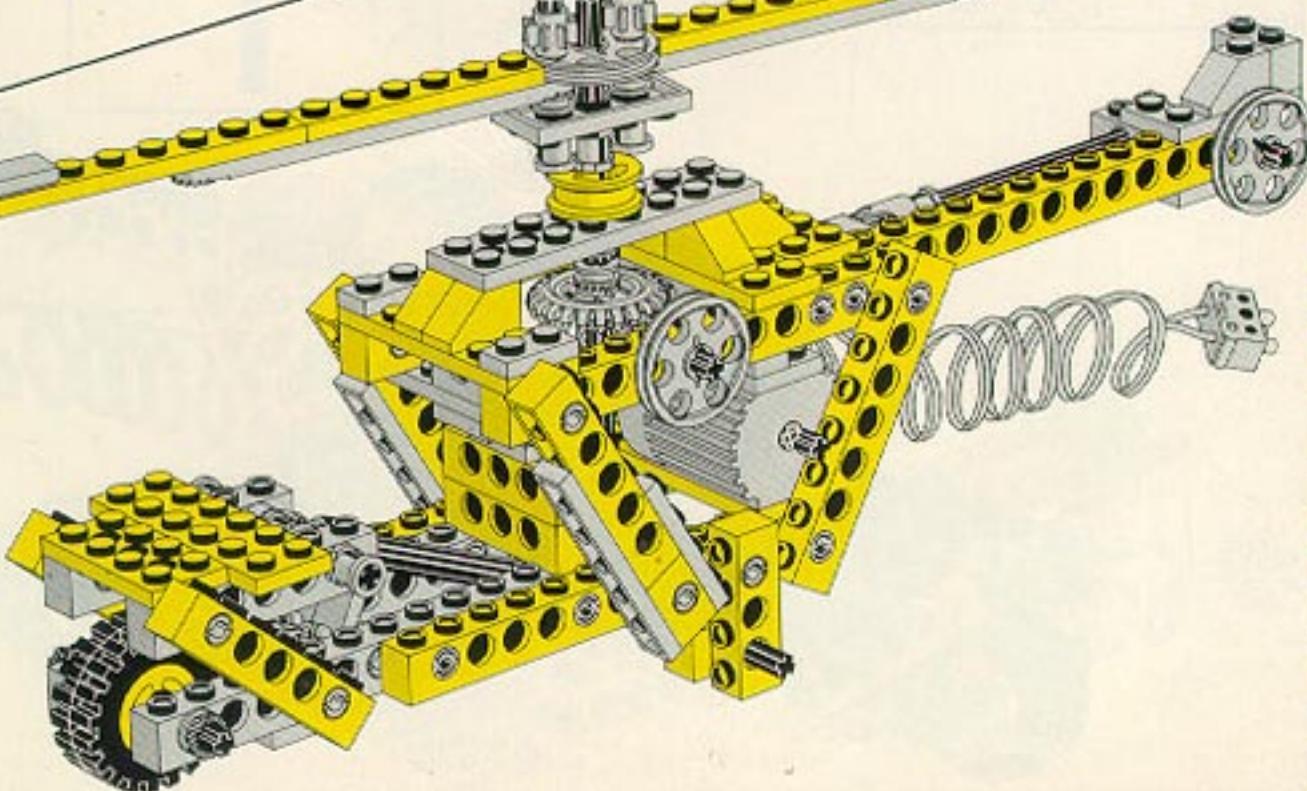
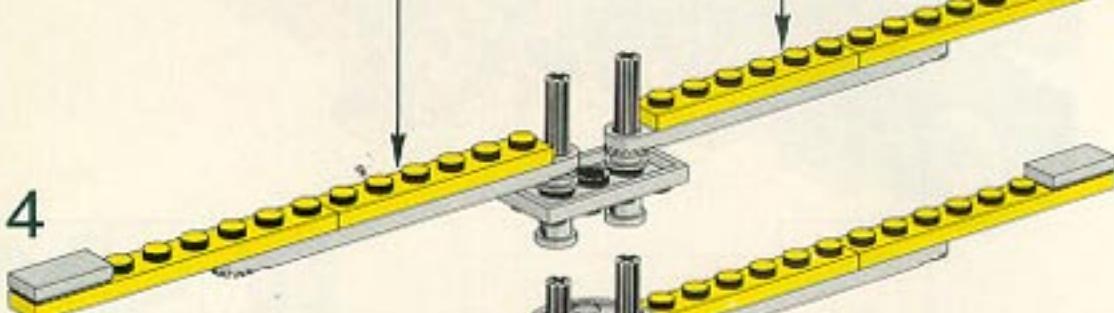
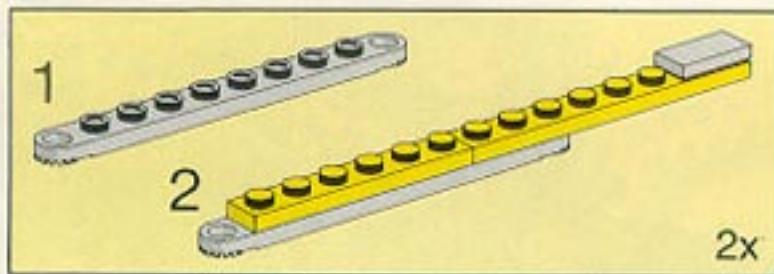
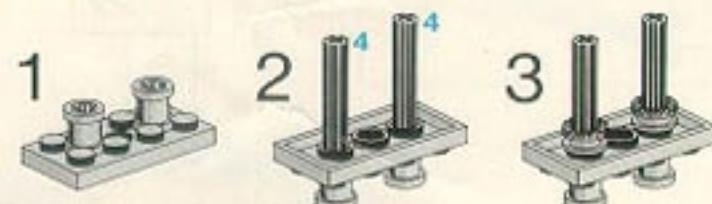


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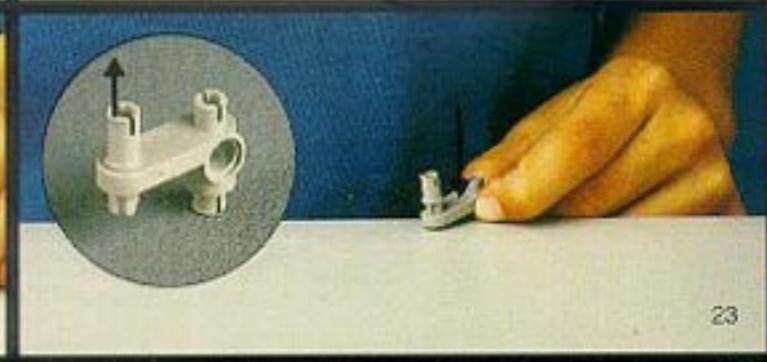
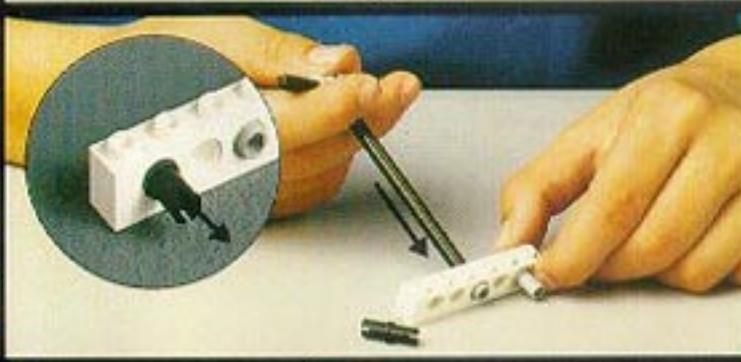
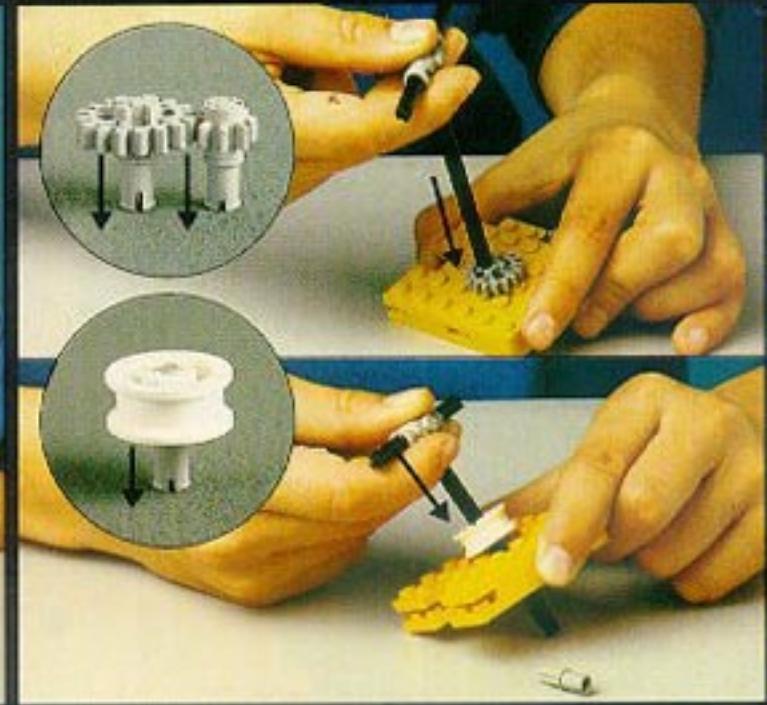
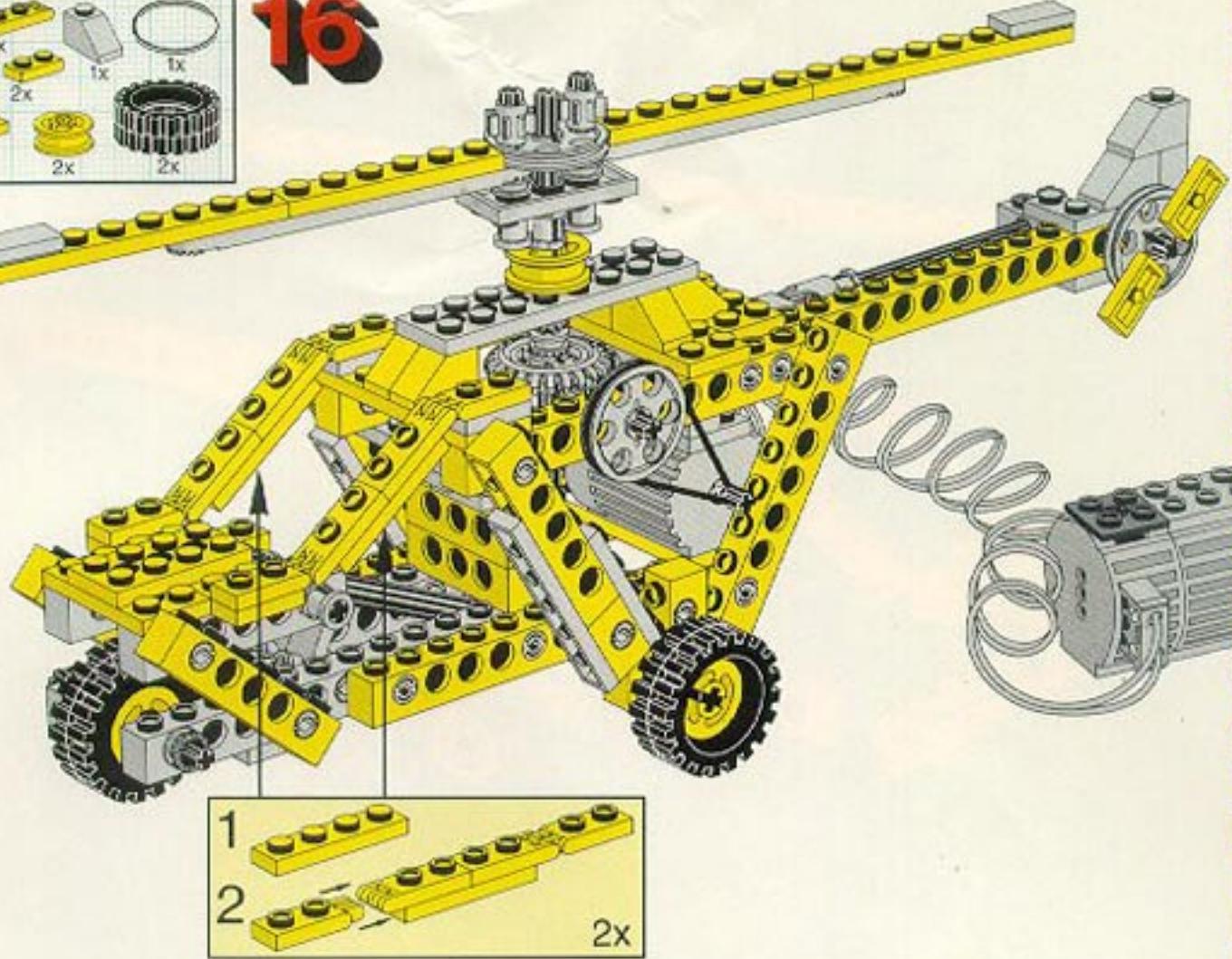
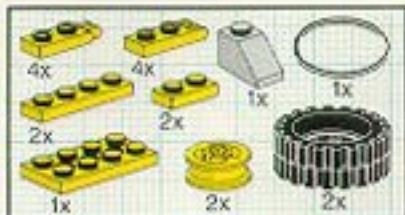




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16



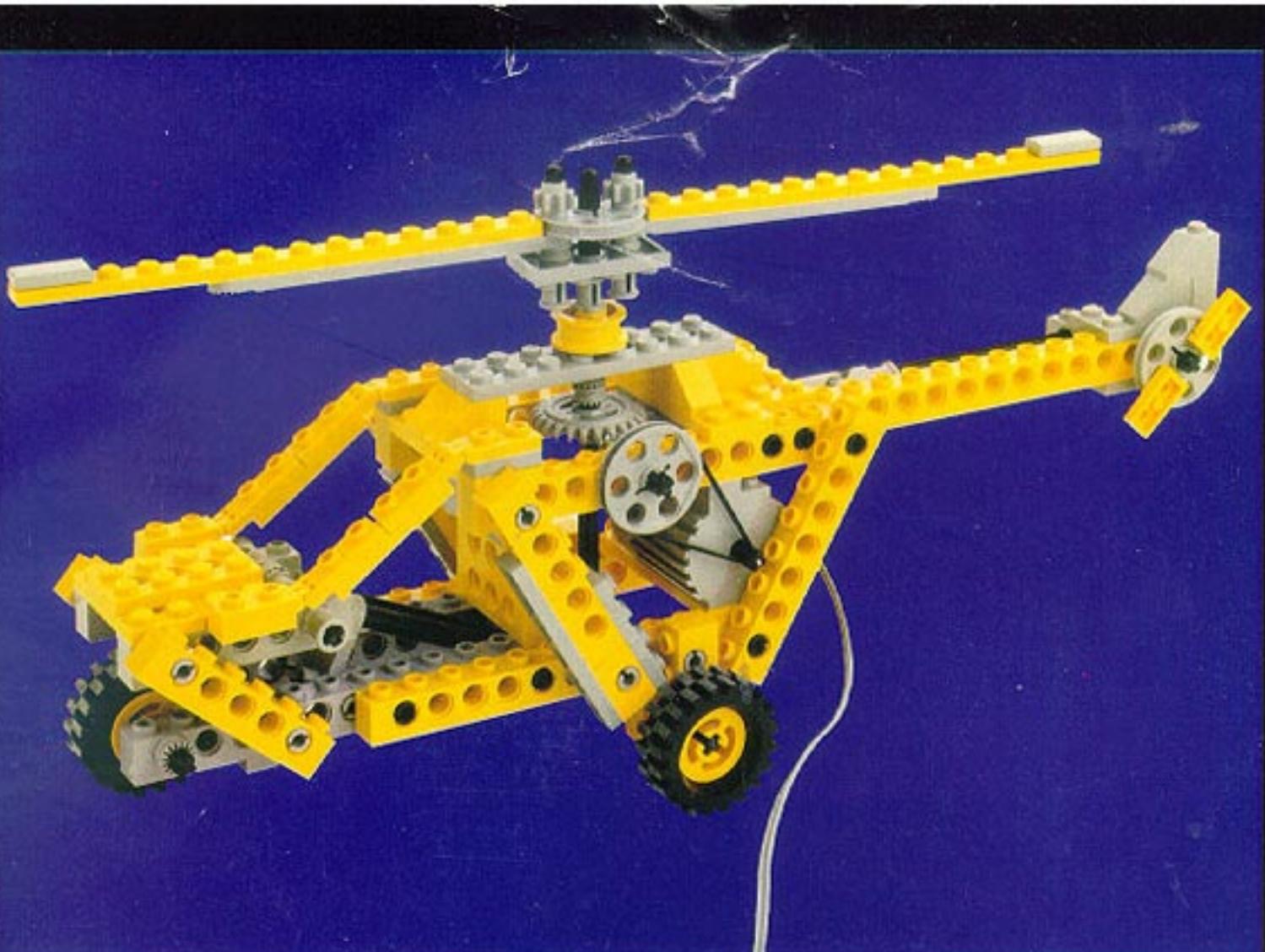
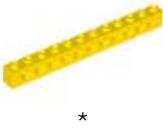


Image	Qty	Item No	Description	MID
Regular Items:				
Parts:				
	1	4350c02(inv)	Light Gray Electric 4.5V 3 C-Cell Battery Box with Switch 4 x 24 Catalog: Parts: Electric, Battery Box Part Color Code Missing	PG
	2	766c01(inv)	Light Gray Electric, Connector, 2-Way Male Squared Narrow Long with Center Post Catalog: Parts: Electric, Wire & Connector Part Color Code Missing	PG
	1	6216m2	Light Gray Electric, Motor 4.5V Type 2 for 2-prong connectors WITH middle pin Catalog: Parts: Electric, Motor Part Color Code Missing	PG
	1	x466	Light Gray Electric, Wire 12V / 4.5V with two Leads, unspecified length Catalog: Parts: Electric, Wire & Connector Part Color Code Missing	PG
	4	4276	Yellow Hinge Plate 1 x 2 with 2 Fingers Catalog: Parts: Hinge Part Color Code Missing	PG
	4	4275	Yellow Hinge Plate 1 x 2 with 3 Fingers Catalog: Parts: Hinge Part Color Code Missing	PG
	4	3023	Light Gray Plate 1 x 2 Catalog: Parts: Plate 302302	PG
	6	3023	Yellow Plate 1 x 2 Catalog: Parts: Plate 302324	PG
	2	3710	Light Gray Plate 1 x 4 Catalog: Parts: Plate 371002	PG
	2	3710	Yellow Plate 1 x 4 Catalog: Parts: Plate 371024	PG
	4	3666	Light Gray Plate 1 x 6 Catalog: Parts: Plate 366602	PG

+ 	2	3666	Yellow Plate 1 x 6 Catalog: Parts: Plate 366624	PG
+ 	2	3460	Yellow Plate 1 x 8 Catalog: Parts: Plate 346024	PG
+ 	4	2420	Light Gray Plate 2 x 2 Corner Catalog: Parts: Plate 242002	PG
+ 	4	3795	Yellow Plate 2 x 6 Catalog: Parts: Plate 379524	PG
+ 	1	x264	Black Rubber Band Large (Square Cross Section) Catalog: Parts: Rubber Band & Belt Part Color Code Missing	PG
+ 	2	x137	Black Rubber Band Medium (Square Cross Section) Thin Cut Catalog: Parts: Rubber Band & Belt Part Color Code Missing	PG
+ 	2	3040	Light Gray Slope 45 2 x 1 Catalog: Parts: Slope 4121933	PG
+ 	6	3040	Yellow Slope 45 2 x 1 Catalog: Parts: Slope 304024 or 4121965	PG
+ 	1	x77	Black String, Cord (Undetermined Type) Catalog: Parts: String Part Color Code Missing	PG
+ 	8	3713	Light Gray Technic Bush Catalog: Parts: Technic 4125313	PG
+ 	10	4265a	Light Gray Technic Bush 1/2 Toothed Type I Catalog: Parts: Technic Part Color Code Missing	PG
+ 	3	4185	Light Gray Technic Wedge Belt Wheel (Pulley) Catalog: Parts: Technic 4100502	PG

+ 	2	4519	Black Technic, Axle 3 Catalog: Parts: Technic, Axle 451926	PG
+ 	2	3705	Black Technic, Axle 4 Catalog: Parts: Technic, Axle 370526	PG
+ 	4	3706	Black Technic, Axle 6 Catalog: Parts: Technic, Axle 370626	PG
+ 	2	3707	Black Technic, Axle 8 Catalog: Parts: Technic, Axle 370726	PG
+ 	4	3737	Black Technic, Axle 10 Catalog: Parts: Technic, Axle 373726	PG
+ 	2	3708	Black Technic, Axle 12 Catalog: Parts: Technic, Axle 370826	PG
+ 	4	3651	Light Gray Technic, Axle and Pin Connector Catalog: Parts: Technic, Connector Part Color Code Missing	PG
+ 	2	4273	Light Gray Technic, Axle and Pin Connector Toggle Joint Tooothed Catalog: Parts: Technic, Connector Part Color Code Missing	PG
+ 	4	3749	Light Gray Technic, Axle Pin without Friction Ridges Lengthwise Catalog: Parts: Technic, Axle 4184168 or 656202	PG
+ 	4	3700	Light Gray Technic, Brick 1 x 2 with Hole Catalog: Parts: Technic, Brick 370002	PG
+ 	6	3700	Yellow Technic, Brick 1 x 2 with Hole Catalog: Parts: Technic, Brick 370024	PG
+ 	2	3701	Light Gray Technic, Brick 1 x 4 with Holes Catalog: Parts: Technic, Brick 370102	PG

+ 	4	3701	Yellow Technic, Brick 1 x 4 with Holes Catalog: Parts: Technic, Brick 370124	PG
+ 	2	3894	Light Gray Technic, Brick 1 x 6 with Holes Catalog: Parts: Technic, Brick 389402	PG
+ 	4	3894	Yellow Technic, Brick 1 x 6 with Holes Catalog: Parts: Technic, Brick 389424	PG
+ 	2	3702	Yellow Technic, Brick 1 x 8 with Holes Catalog: Parts: Technic, Brick 370224	PG
+ 	2	3895	Light Gray Technic, Brick 1 x 12 with Holes Catalog: Parts: Technic, Brick 4195006	PG
+ 	4	3895	Yellow Technic, Brick 1 x 12 with Holes Catalog: Parts: Technic, Brick 6262393 or 389524	PG
+ 	2	3703	Yellow Technic, Brick 1 x 16 with Holes Catalog: Parts: Technic, Brick 370324	PG
+ 	4	3647	Light Gray Technic, Gear 8 Tooth Type 1 Catalog: Parts: Technic, Gear 364702	PG
+ 	2	4143	Light Gray Technic, Gear 14 Tooth Bevel Catalog: Parts: Technic, Gear Part Color Code Missing	PG
+ 	1	4019	Light Gray Technic, Gear 16 Tooth (First Version - 4 Round Holes) Catalog: Parts: Technic, Gear Part Color Code Missing	PG
+ 	2	x187	Light Gray Technic, Gear 24 Tooth (1st Version - 3 Axle Holes) Catalog: Parts: Technic, Gear Part Color Code Missing	PG
+ 	1	3650a	Light Gray Technic, Gear 24 Tooth Crown (1st Version - Not Reinforced) Catalog: Parts: Technic, Gear Part Color Code Missing	PG

+ 	1	3743	Light Gray Technic, Gear Rack 1 x 4 Catalog: Parts: Technic, Gear 374302	PG
+ 	1	4716	Black Technic, Gear Worm Screw, Long Catalog: Parts: Technic, Gear 6037533 or 471626	PG
+ 	10	4459	Black Technic, Pin with Friction Ridges Lengthwise WITHOUT Center Slots Catalog: Parts: Technic, Pin Part Color Code Missing	PG
+ 	12	3673	Light Gray Technic, Pin without Friction Ridges Lengthwise Catalog: Parts: Technic, Pin 4184166	PG
+ 	3	2719	Light Gray Technic, Plate 1 x 10 with Toothed Ends Catalog: Parts: Technic, Plate Part Color Code Missing	PG
+ 	2	3709b	Light Gray Technic, Plate 2 x 4 with 3 Holes Catalog: Parts: Technic, Plate 370902	PG
+ 	4	3709b	Yellow Technic, Plate 2 x 4 with 3 Holes Catalog: Parts: Technic, Plate 370924	PG
+ 	2	3738	Light Gray Technic, Plate 2 x 8 with 7 Holes Catalog: Parts: Technic, Plate 373802	PG
+ 	2	4261	Light Gray Technic, Steering Arm Catalog: Parts: Technic, Steering Part Color Code Missing	PG
+ 	1	9244c01(inv)	Light Gray Technic, Universal Joint 4L Catalog: Parts: Technic, Connector Part Color Code Missing	PG
+ 	2	3069b	Light Gray Tile 1 x 2 with Groove Catalog: Parts: Tile 306902	PG
+ 	6	2346	Black Tire 30 x 10.5 Offset Tread Catalog: Parts: Tire & Tread 234626	PG

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[3482](#)**Yellow Wheel with Split Axe Hole**[Catalog: Parts: Wheel](#)

348224

[PG](#)

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[3482c02\(inv\)](#)**Yellow Wheel with Split Axe Hole with Black Tire 30 x 10.5****Offset Tread (3482 / 2346)**[Catalog: Parts: Wheel & Tire Assembly](#)

Part Color Code Missing

[PG](#)**Counterparts:****Summary:**

Type	Unique Lots	Total Qty
Regular Items:		
Parts	60	196
Counterparts:		
Parts	1	6

Source:

Instructions

[Admin](#) inventoried this Set on Mar 18, 2007, inventory last updated on Sep 21, 2019.