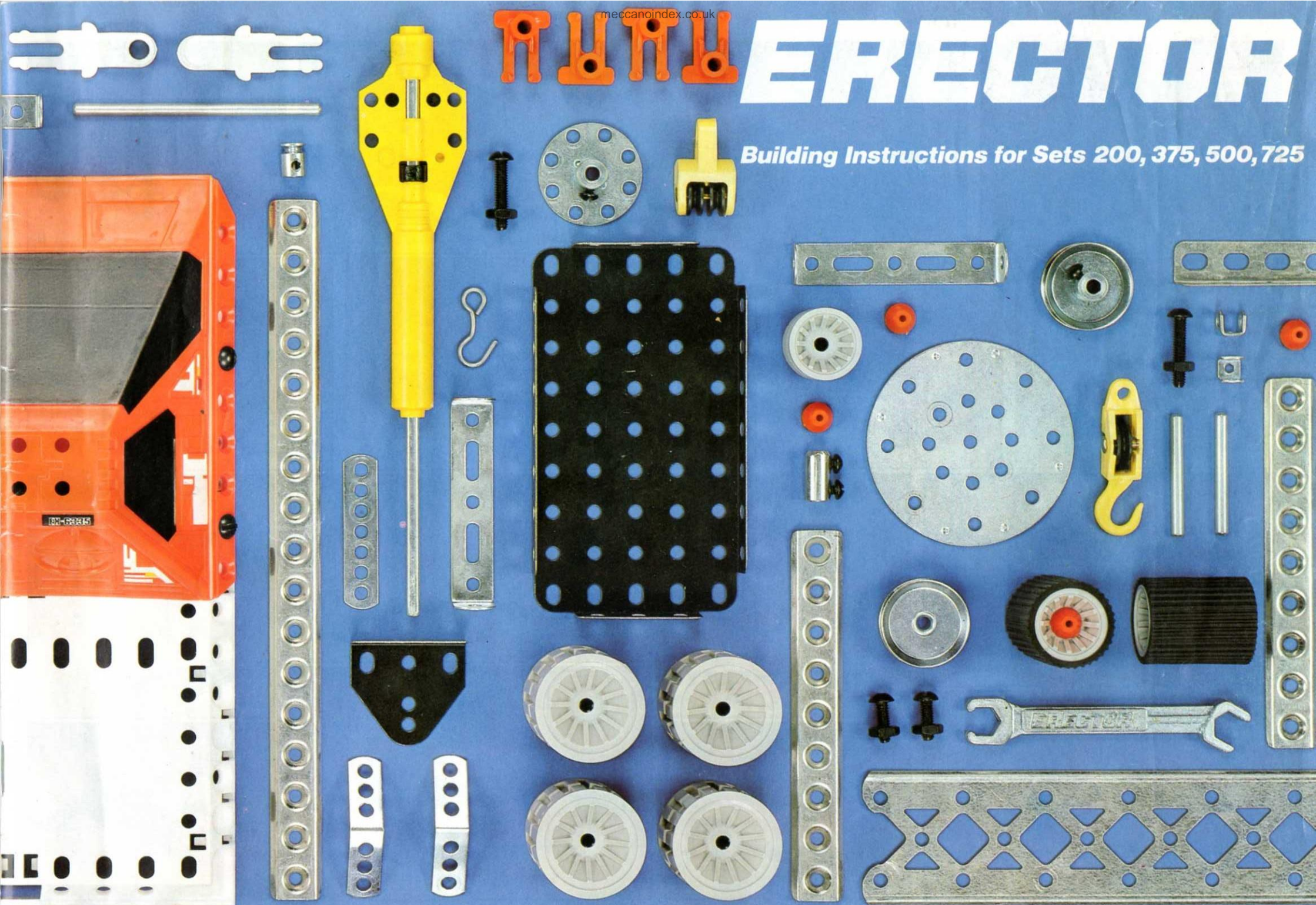
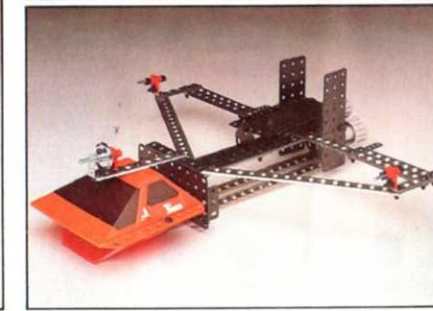
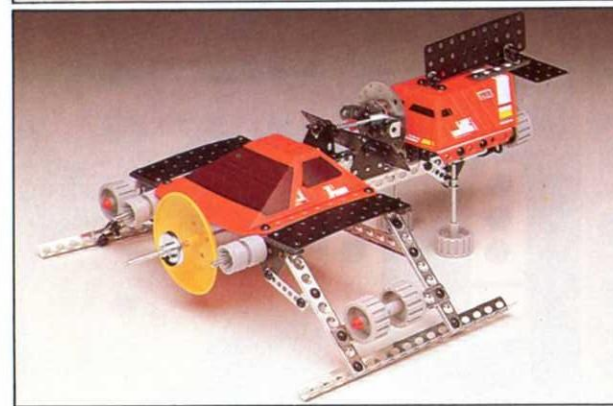
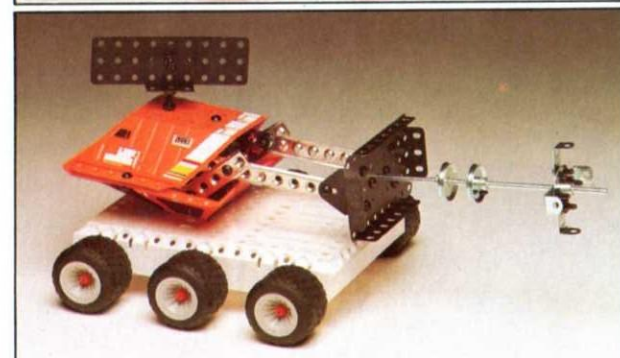
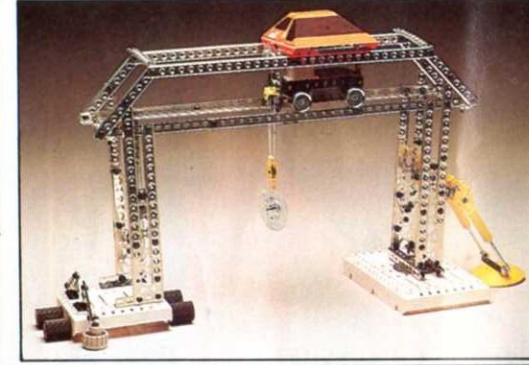
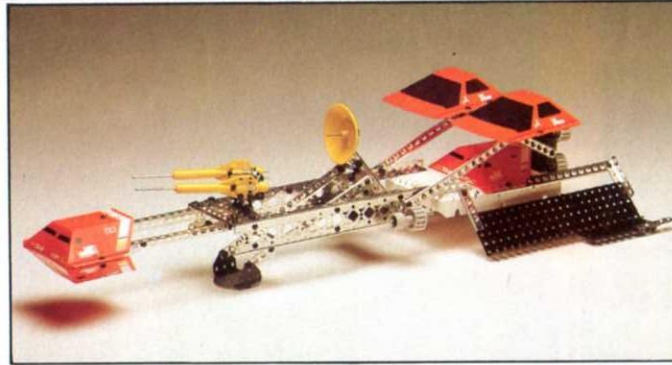


Building Instructions for Sets 200, 375, 500, 725





ERECTOR MEANS BUILDING

Your Erector® Construction System will provide you with many hours of building excitement. Whether you're building the models in this book or creating your own, there's lots of discovery and fun with Erector. This book contains model plans for all four Erector sets. The models in this book that you can build depend on what set you have.

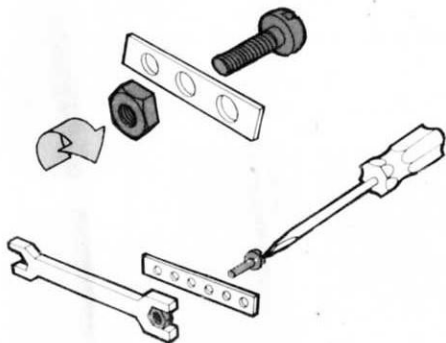
HOW THIS BOOK WORKS

First, read through this introduction carefully. It will explain the way the pieces go together and other important things you'll need to know such as: attaching the wheels, connecting the motors, and making your models move. When you're ready to start building, pick a model you can build with your set and simply follow the pictures.

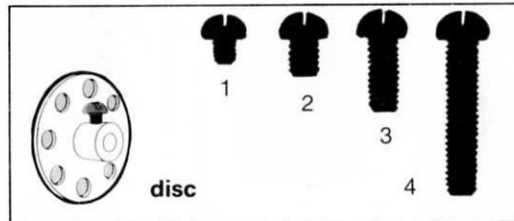
BASIC ASSEMBLY TECHNIQUES

Nut & Screw Assembly

Your Erector models are mostly put together with nuts and screws. Put the screw through the 2 or more parts you want to connect. Fit a nut on the end of the screw and tighten by turning the screw clockwise. Use the screwdriver to turn the screw, and the spanner to hold the nut in place.

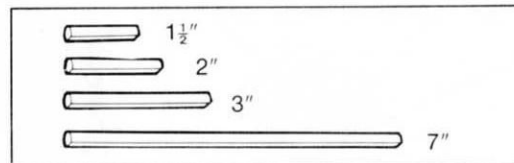


You have 4 different length screws. Most of the time use the No. 2 screw. Use No. 3 or No. 4 screws when you need a longer one. Use the No. 1 screw only with the disc or pulley to hold axles in place.



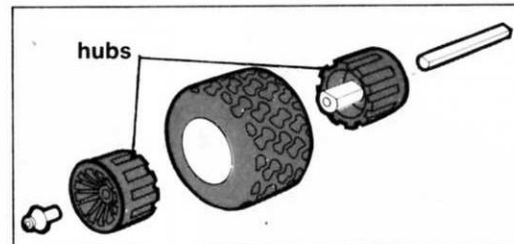
Axles

The axles are pieces that hold the wheels in place on the chassis and turn the wheels. There are 4 different sizes of axles, but you may not have all 4 in your set. Use the chart to sort your axles.

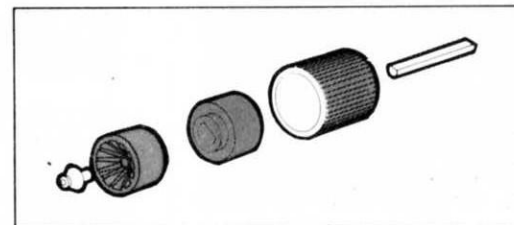


Tyres and Hubs

Slide the hubs inside the tyre. Fit the flat surface of each hub together, then slide an axle through the hub and tyre. Add hub cap.

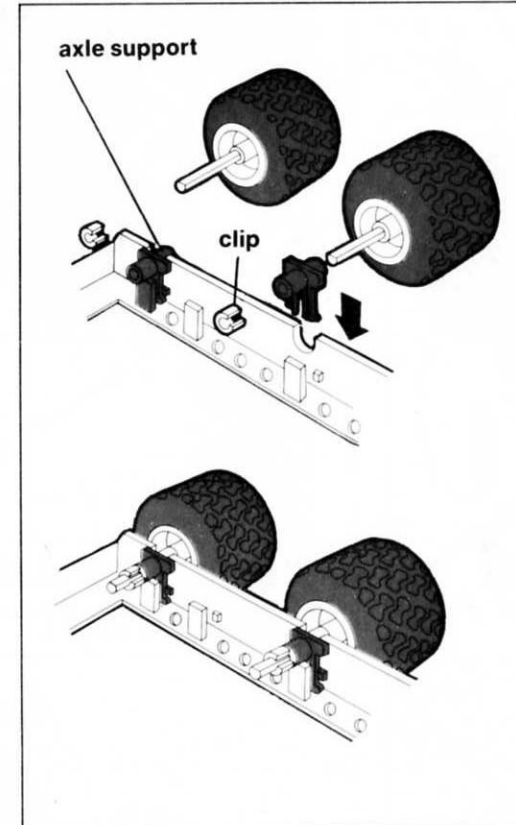


For the small tyres (in sets 500 and 725) snap hubs together and slip rubber tyres over them. Put in the axles, and add the hub caps.



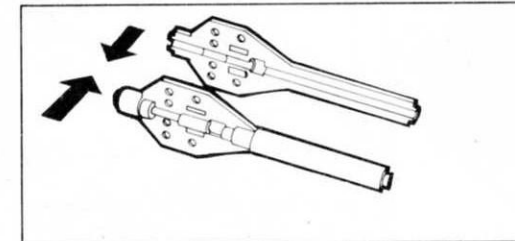
ATTACH WHEELS TO CHASSIS

Axle supports connect the axles to the chassis. Snap axle support in place as shown. Be sure that the flat side of the axle support fits against the inside wall of the chassis. Put axle through the support and hold it in place by snapping a clip over the axle.

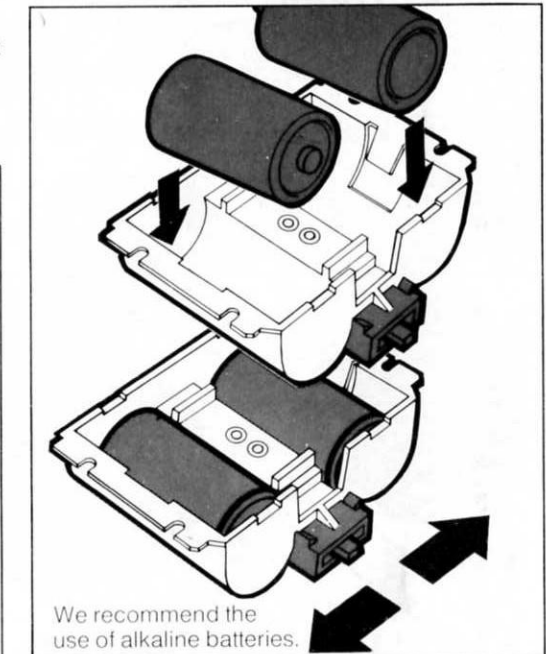


HYDRAULIC UNIT

Snap together as shown.

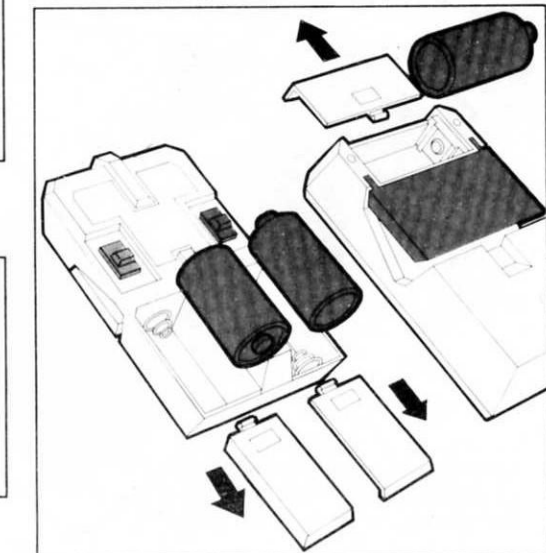


BATTERY BOX (Set 375)



REMOTE CONTROL UNIT (Sets 500 and 725)

Slide the covers off. Put in two HP2 batteries as shown. Replace the covers. Put 1 HP2 battery in the back compartment.

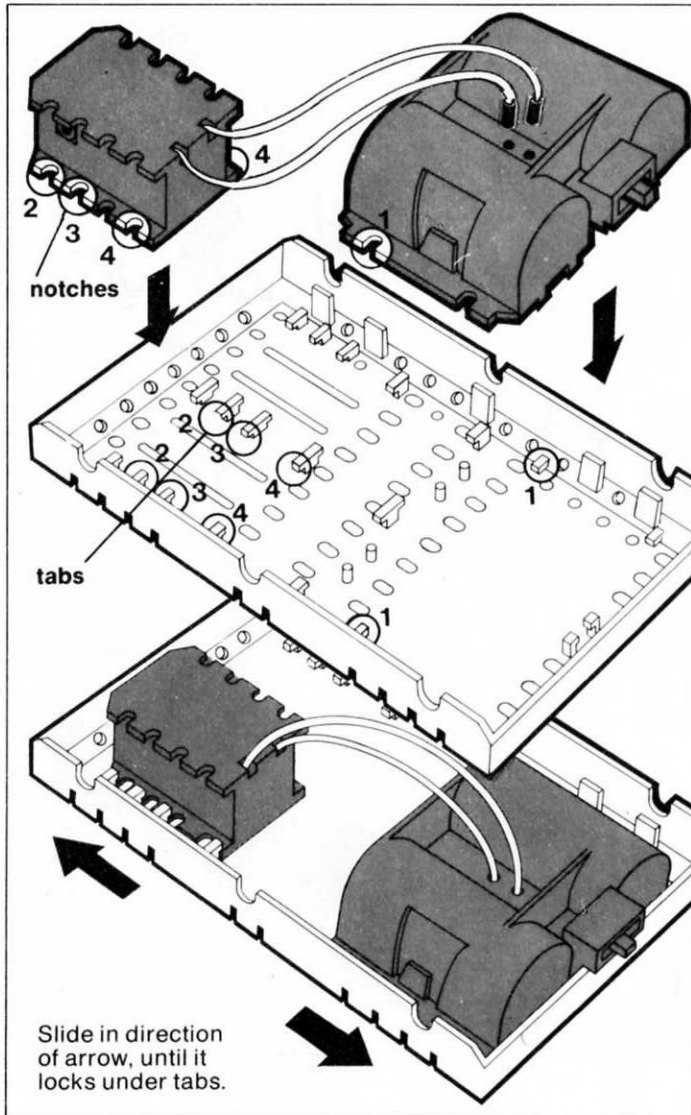


ATTACH MOTORS TO BATTERY BOX CHASSIS (Set 375)

Place the motor in the chassis as shown. Fit the notches in the motor over the tabs in the chassis. To be sure you put the motor in right, match the numbered notch to the numbered tab as in the picture.

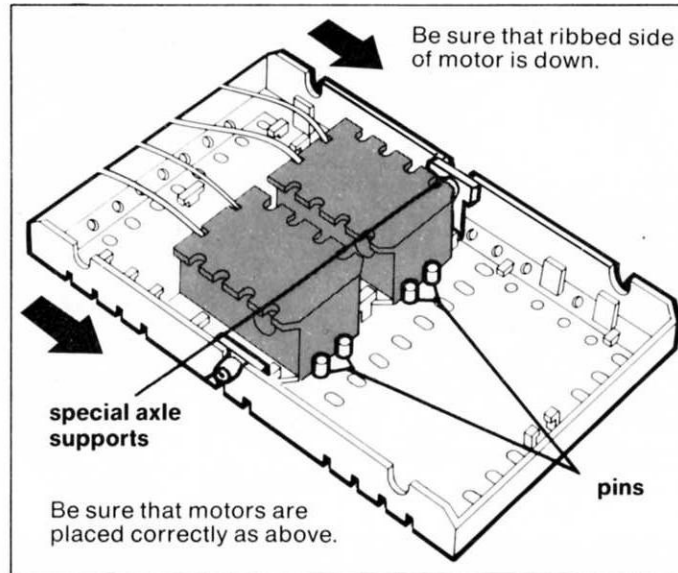
Follow the same steps with the battery box that you did for the motor.

Be sure that the notches fit over the correct tabs.
Be sure that motors are facing in the right direction.
Be sure you're pushing the motor in the right direction.
Be sure that motor locks in place.



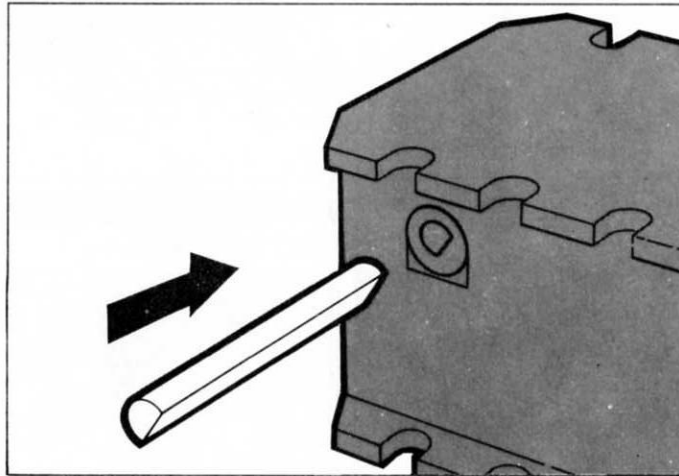
MOTORS IN CENTRE POSITION

Some models use the motors in the centre position. Put them in as shown. Make sure they lock in place and sit up against the pins. When you have the motors in this position, you will need to use the special axle supports to connect the wheels to the motors. There are only two of them in your set (as shown). Twist them off the runners and snap into place on the chassis.



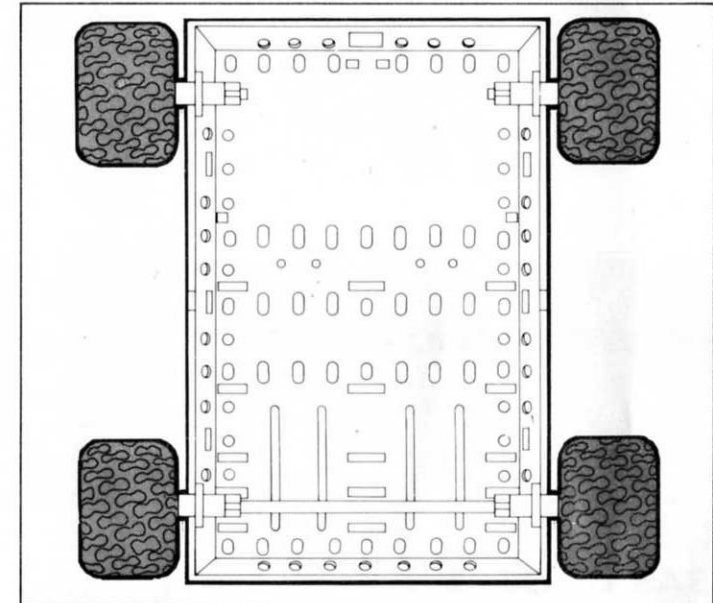
CONNECTING AXLES TO MOTORS

Match the flat side of the axle to the flat side of the hole in the motor. Push axle into motor.



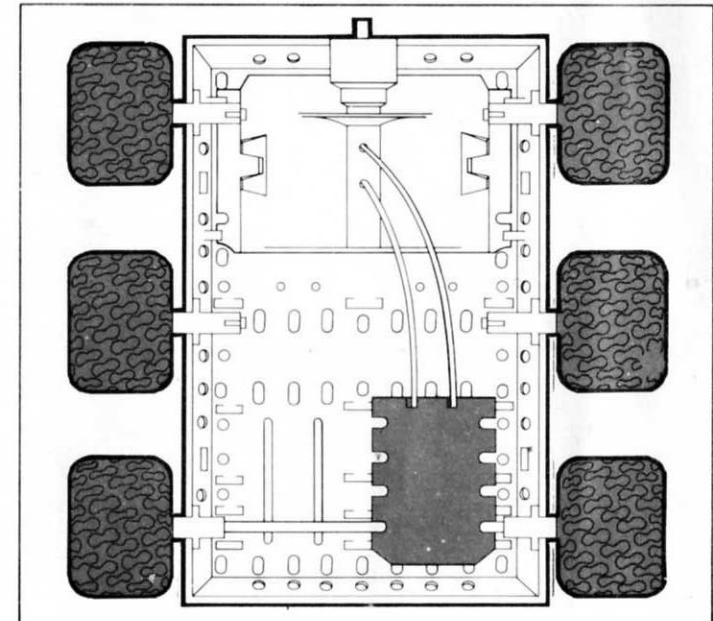
SUGGESTED CHASSIS HOOK-UPS WITHOUT MOTORS

(4) wheels. (1) 7" axle. (2) 2" axles.



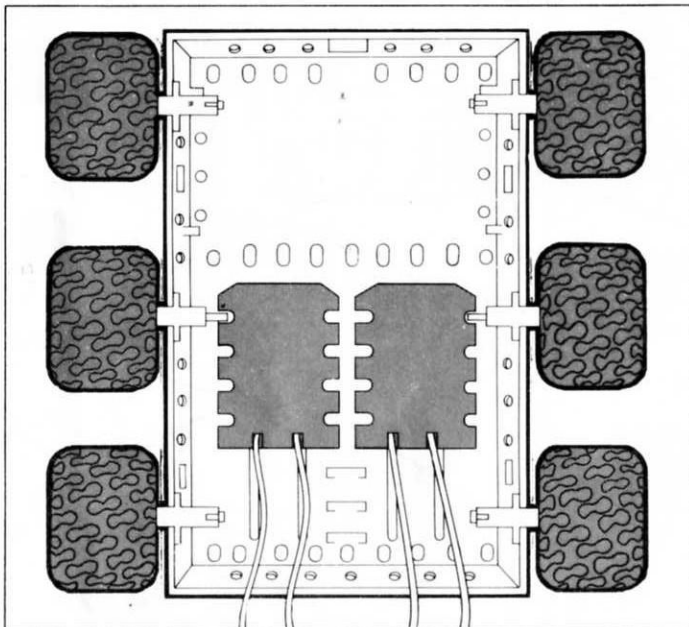
WITH MOTOR AND BATTERY BOX

(6) wheels. (1) 7" axle goes through motor. (2) 2" axles in centre. (2) 1/2" axles on either side of battery box.



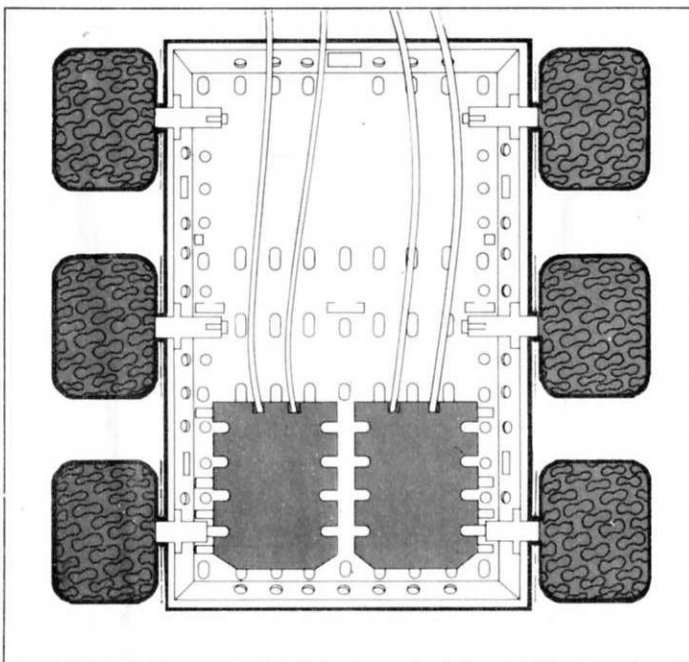
2 MOTORS IN CENTRE POSITION

(6) wheels. (6) 2" axles. Use special axle supports for centre wheels.



2 MOTORS IN REAR POSITION

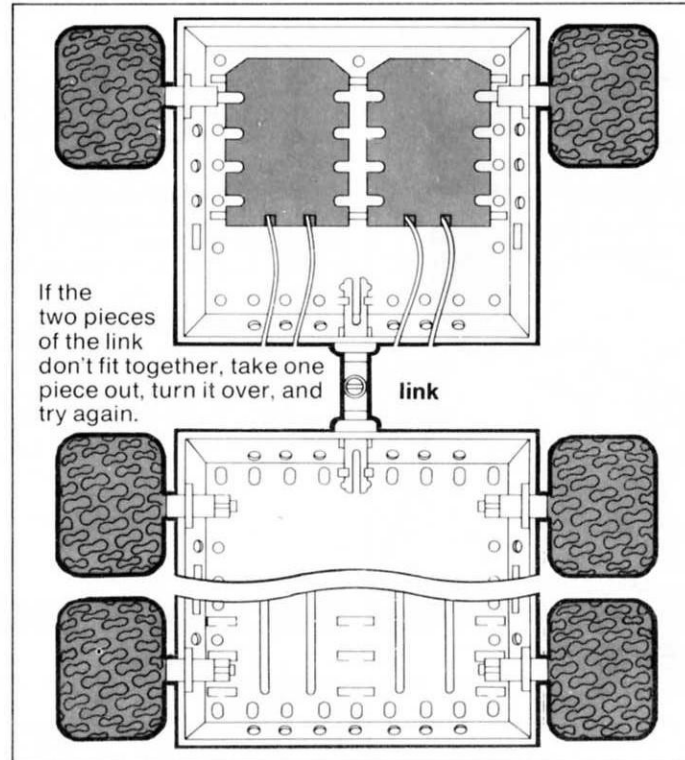
(6) 2" axles.



2 MOTORS IN SMALL CHASSIS

(Set 725 only) (8) 2" axles.

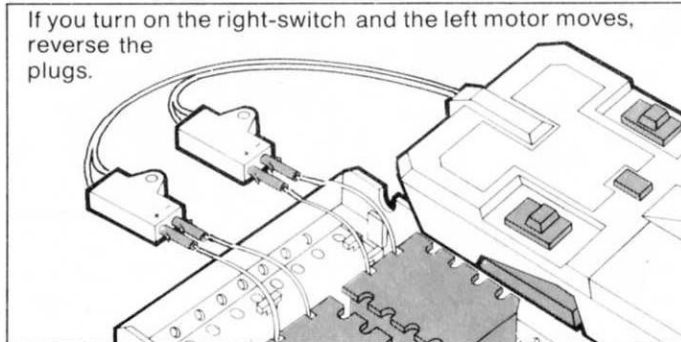
NOTE: The 2 chassis are joined by the link. Snap it to the chassis as shown.



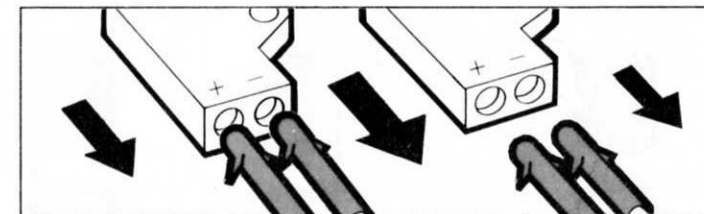
REMOTE CONTROL

The orange and yellow wires coming from the Remote Control Unit are controlled by the right hand switch on the unit and should be connected to the right motor. The green and blue wires coming from the Remote Control Unit are controlled by the left hand switch on the unit and should be connected to the left motor.

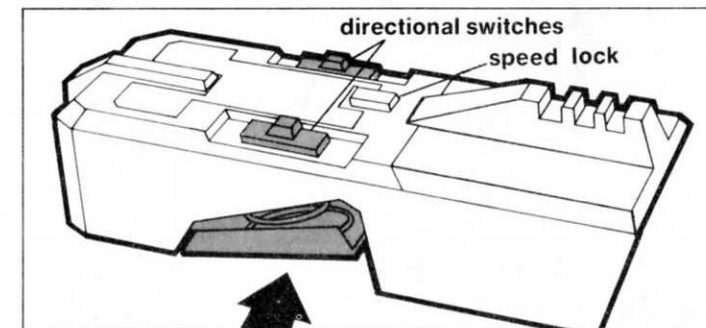
If you turn on the right-switch and the left motor moves, reverse the plugs.



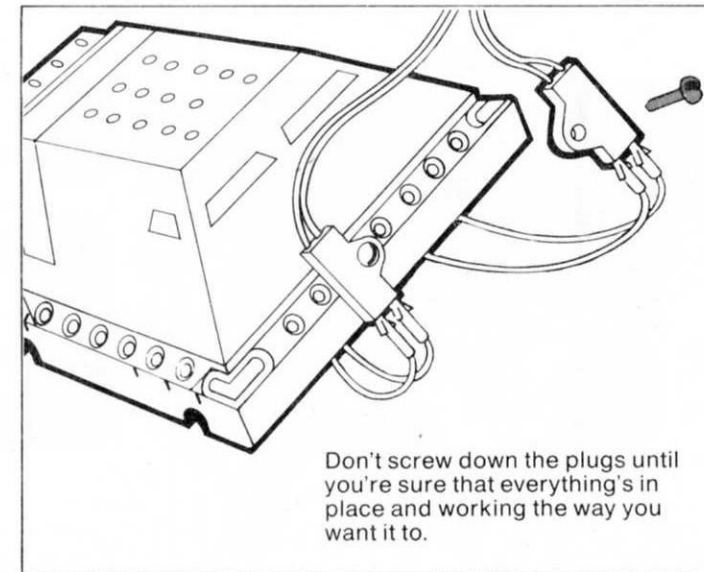
Look at the black plugs on the ends of the remote control wires. They are marked "+" (positive) and "-" (negative). Start by connecting the red wires from the motors to the "+" sides of the plugs and the blue wires to the "-" sides. If your model doesn't move the way you want it to when you turn on the motors, reverse the connections. (Plug the blue wires into the "+" and the red wires into the "-".)



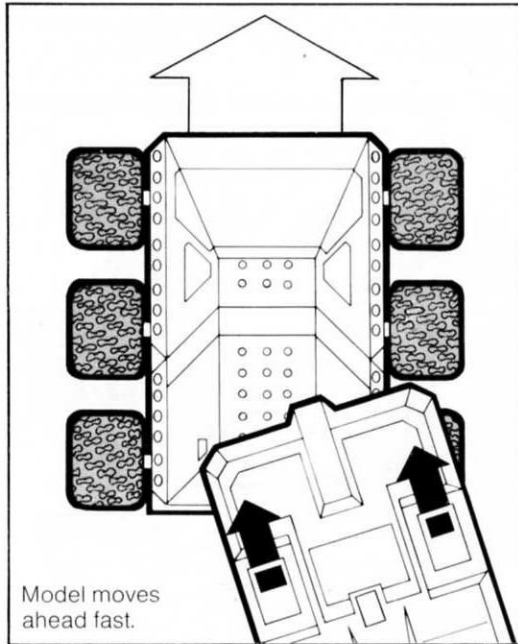
The switches on the top control the direction the motors run. The lever on the bottom varies the speed. The Speed-Lock switch on the top locks the motors on in the fastest setting.



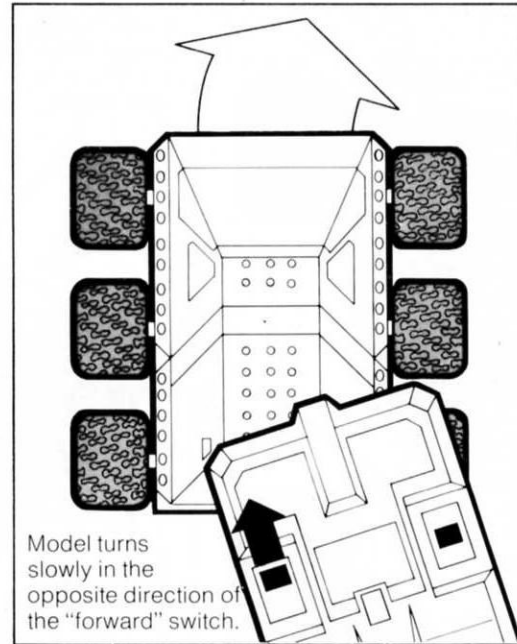
Attach remote control plugs to models as shown using a screw and a nut.



BOTH SWITCHES IN "FORWARD"



ONE SWITCH "FORWARD," ONE IN "OFF" TIPS



NOTE:

Your models will move best on smooth floors. Running large models on carpet may drain batteries.

If your model won't move:

(1) Lift it up so the wheels are off the table and try it again. If the wheels move, the batteries may be low or your model may be too heavy or unbalanced.

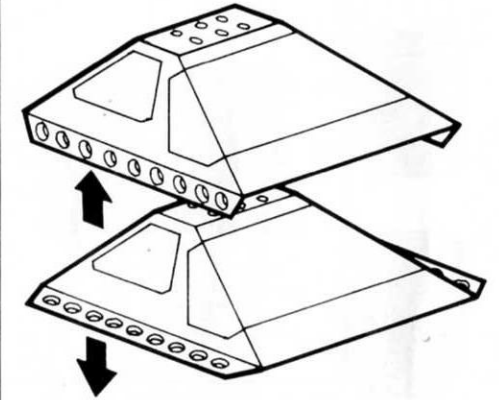
(2) If the wheels still don't turn, pull the axles out of the motor and turn on again. If the motors work, check to see that you have the right axle support in place and that nothing is putting tension on the axle.

(3) If nothing happens then, check all connections.

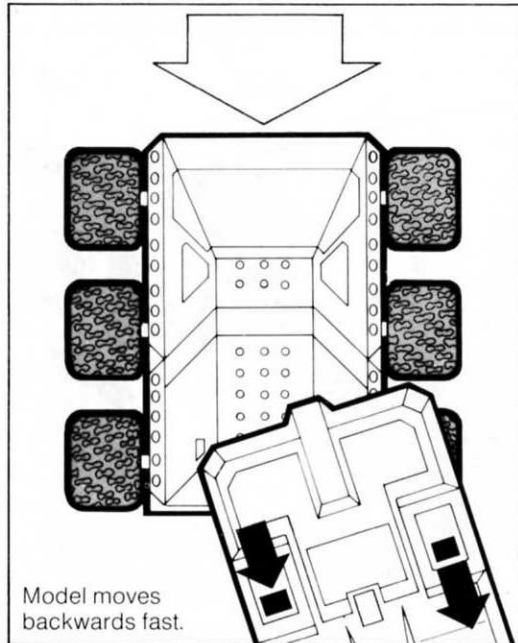
(4) If the connections are right and nothing happens, check the batteries. Are they in correctly? Are they worn out? We recommend alkaline batteries for longest use.

CAB UNITS

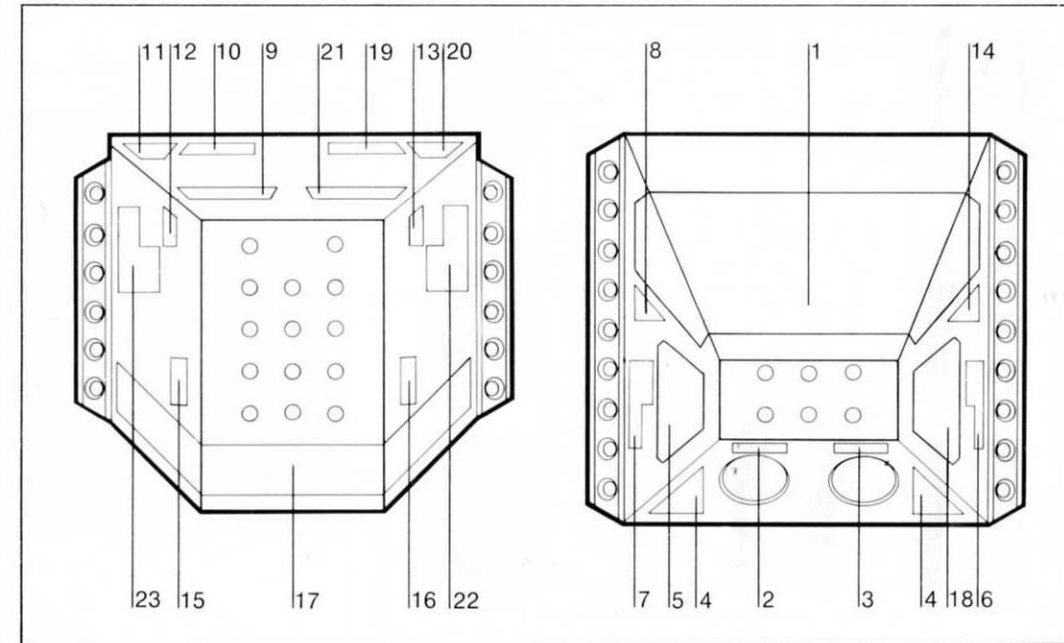
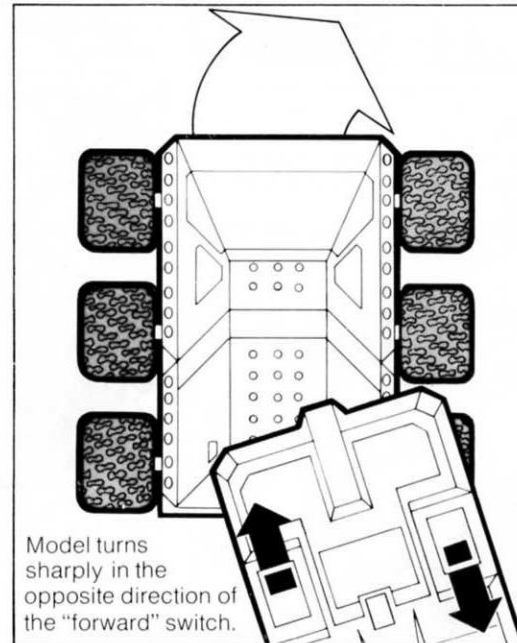
The orange cab units have hinged flanges that can be bent into position for fastening to the chassis. These flanges are quite strong and with reasonable care will remain flexible. When first used flex the flange section back and forth a few times.



BOTH SWITCHES IN "REVERSE"



ONE SWITCH "FORWARD," ONE IN "REVERSE" CUSTOMISE YOUR MODELS

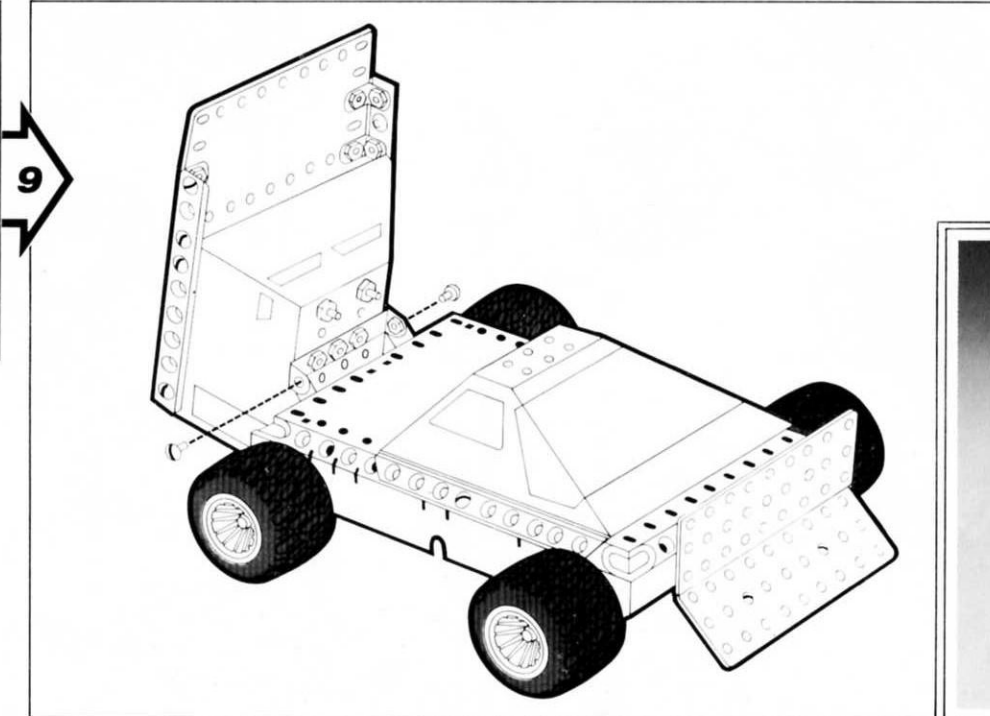
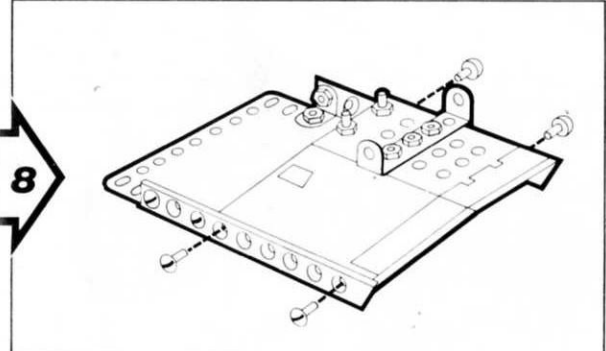
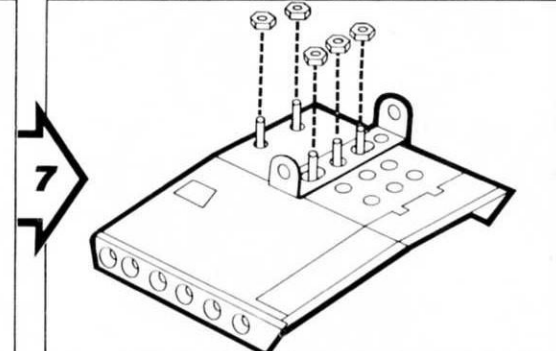
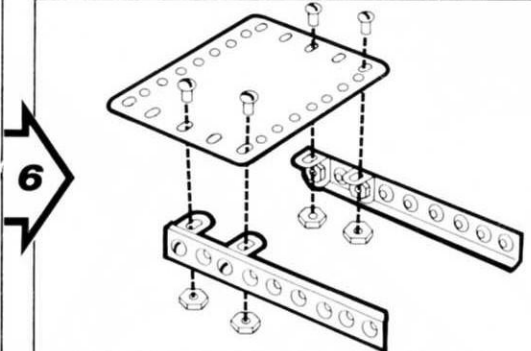
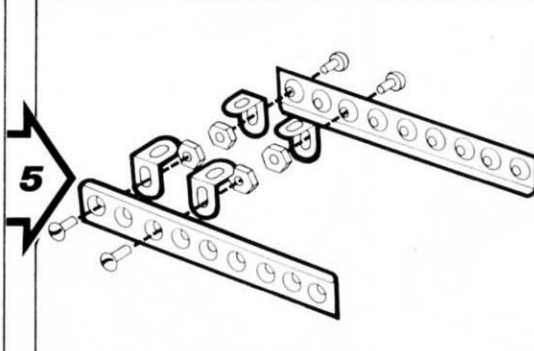
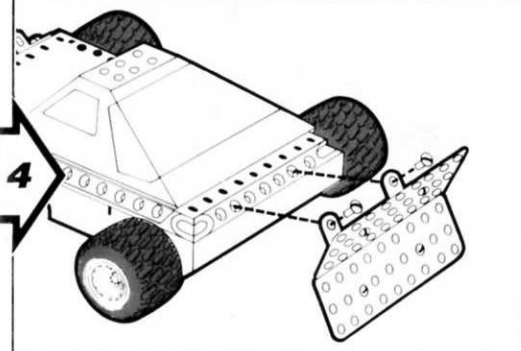
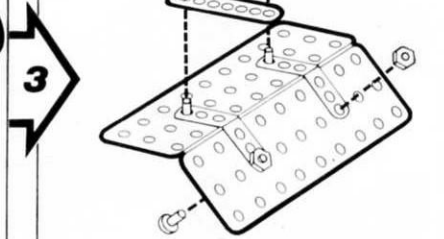
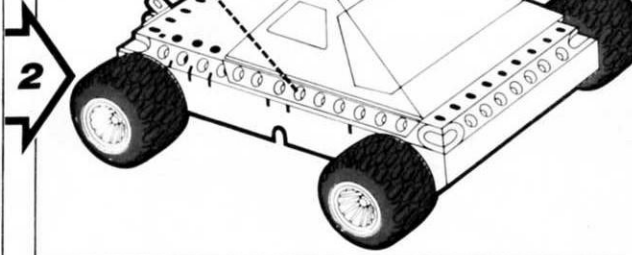
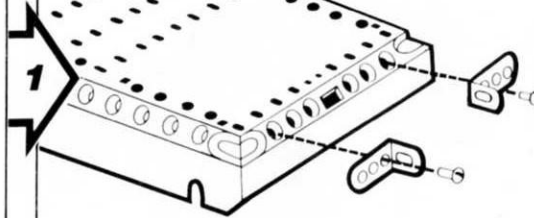
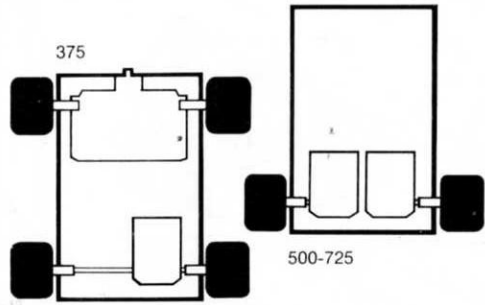


TIPPER TRUCK

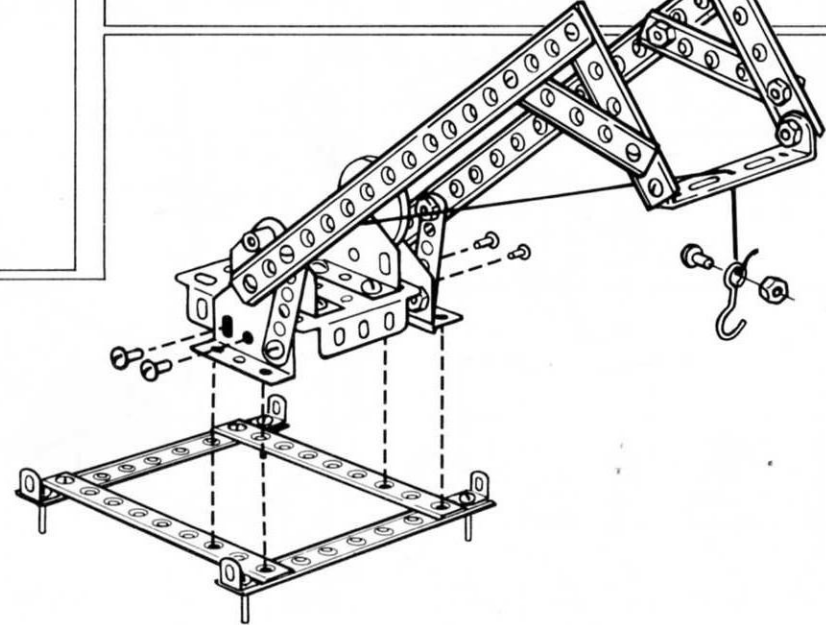
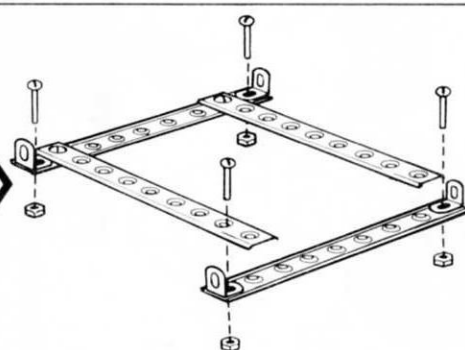
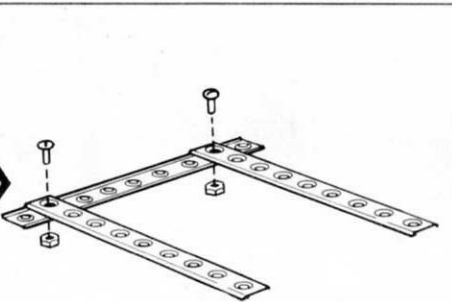
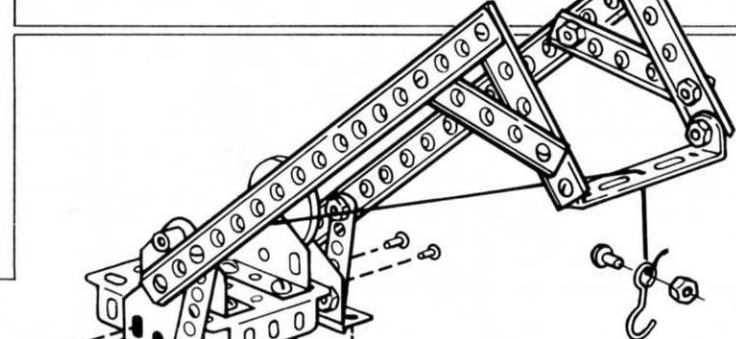
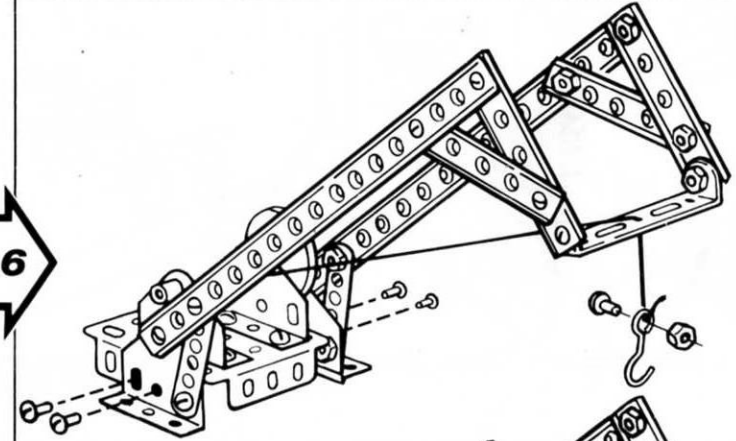
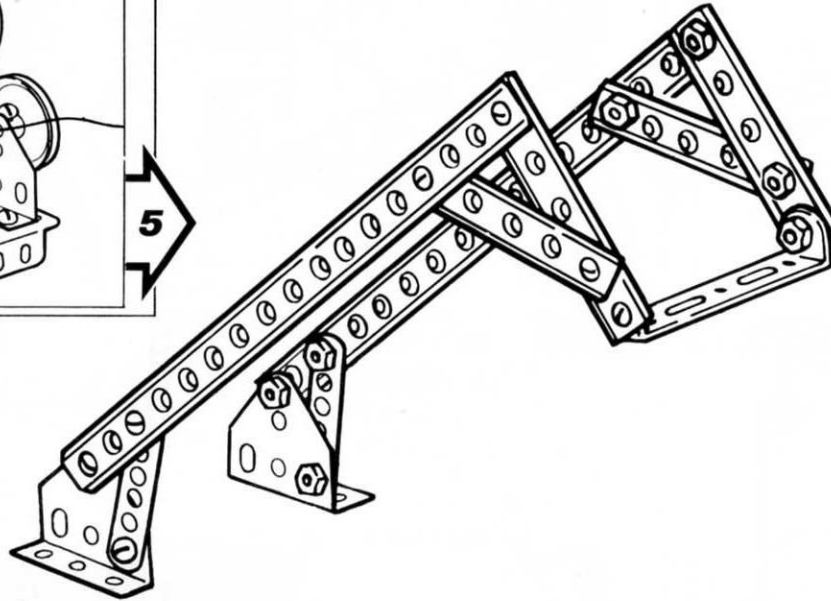
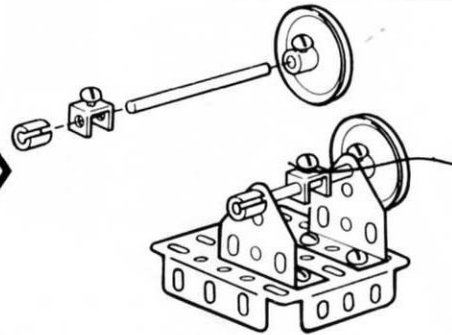
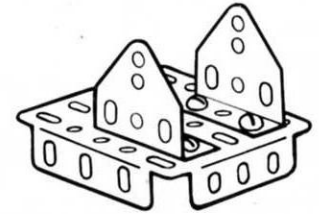
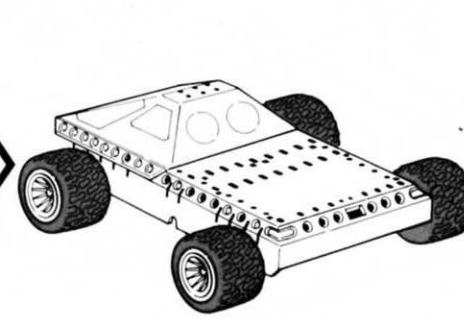
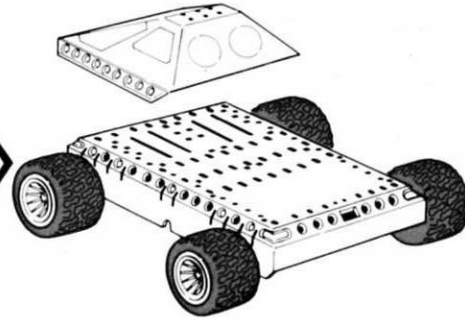
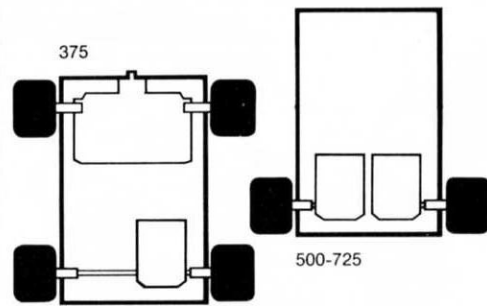
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Can be made with sets 200-375-500-725.

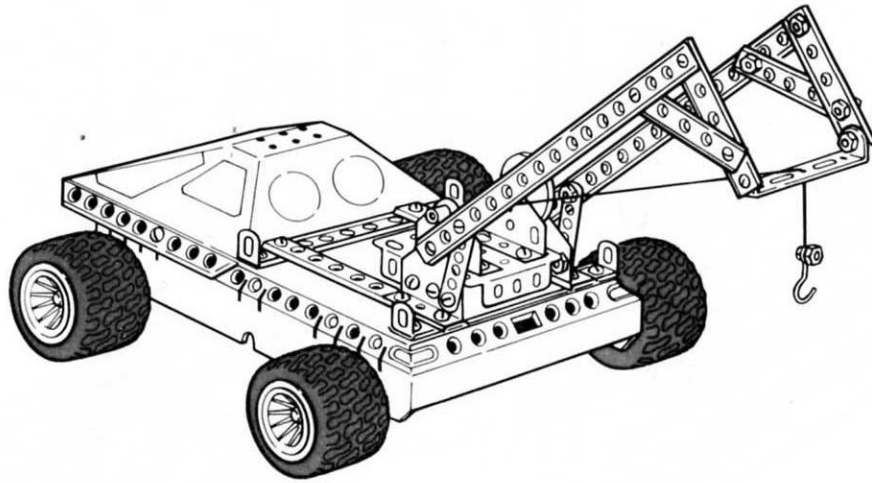
Suggested Motor position for sets 375-500-725



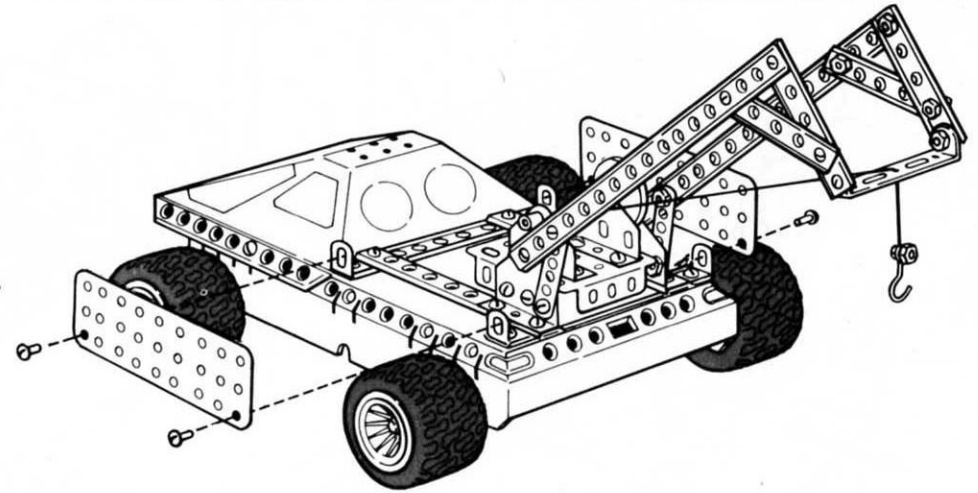
Suggested Motor position for sets 375-500-725



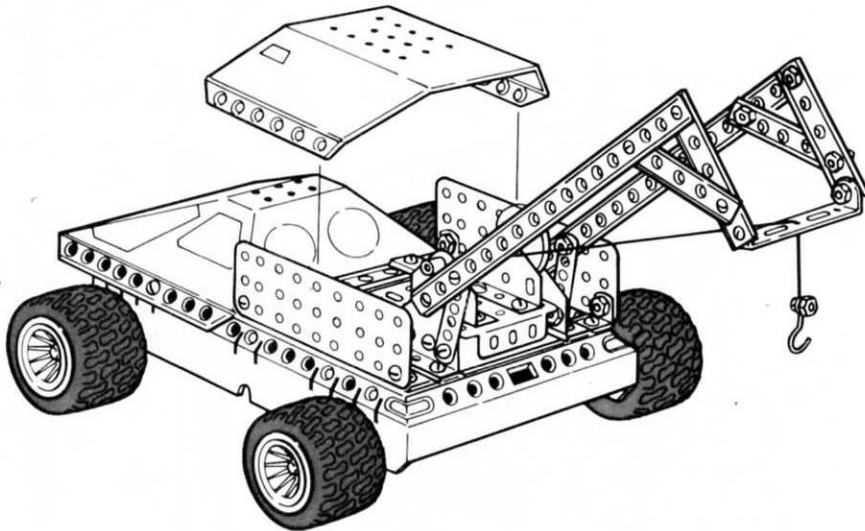
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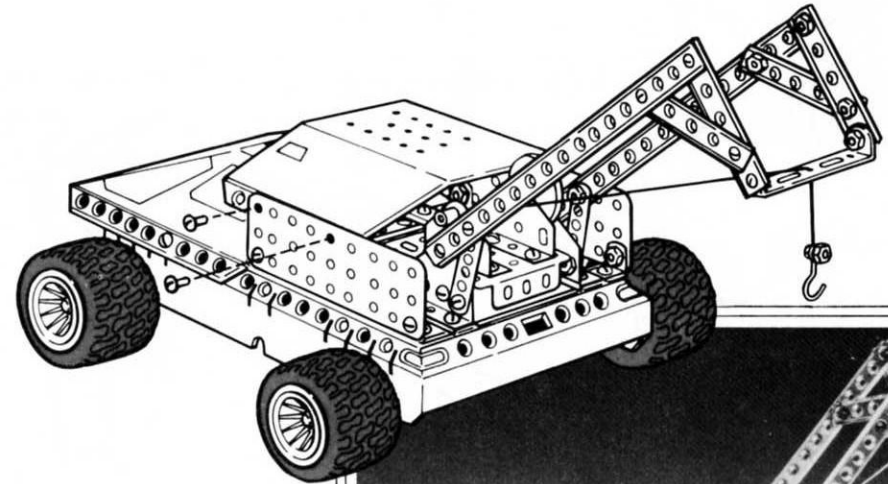
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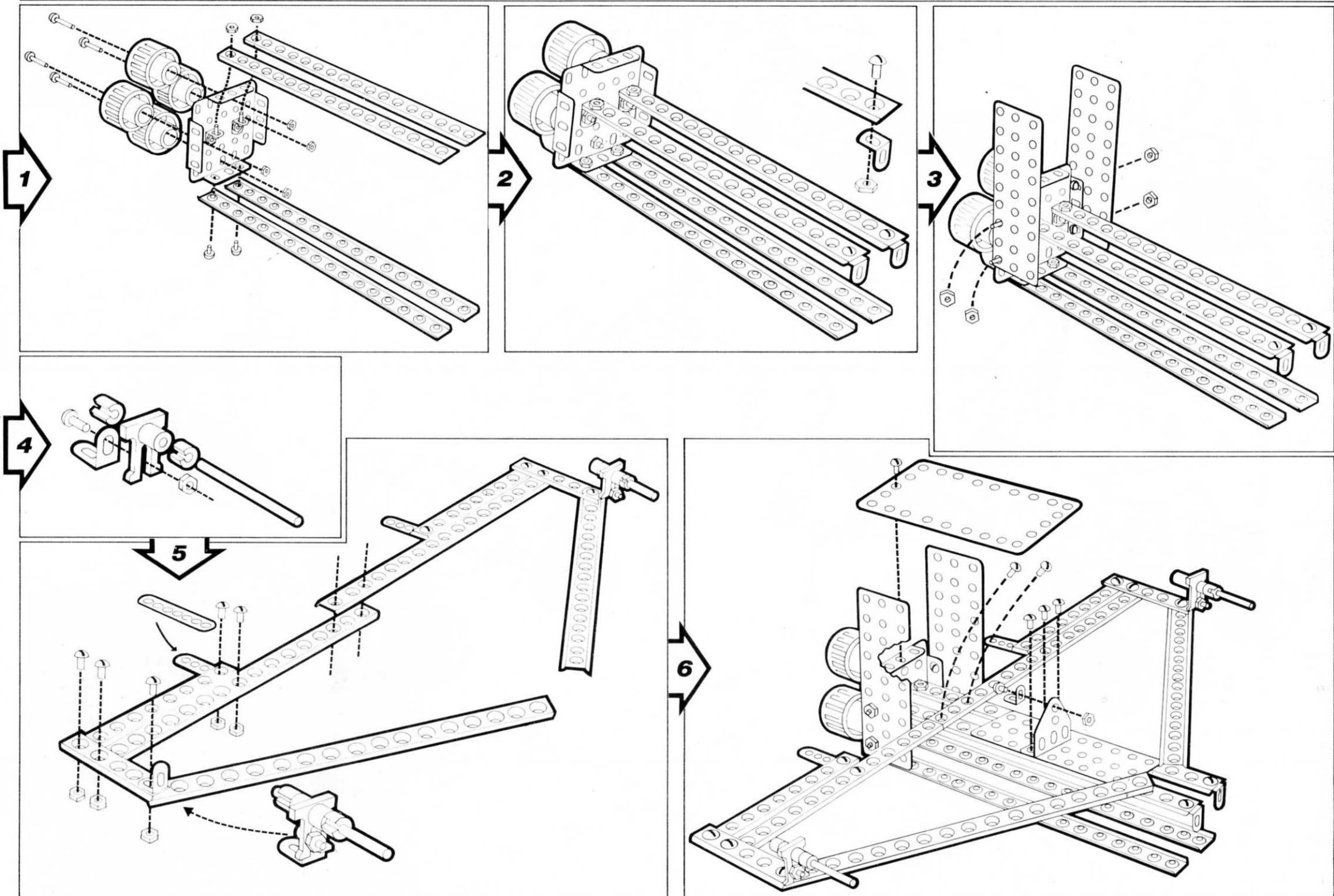


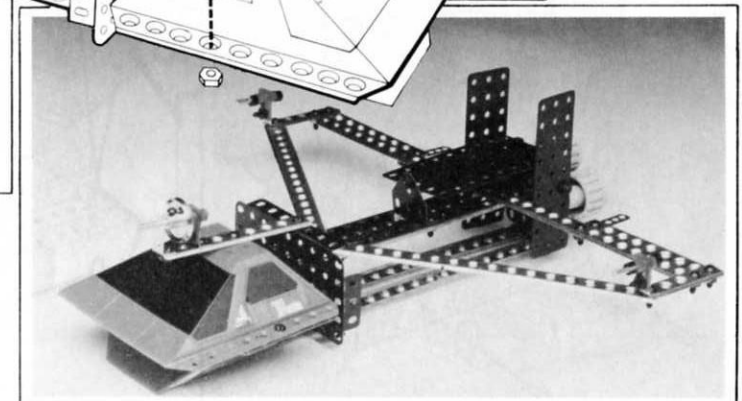
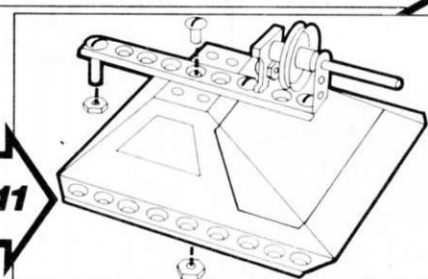
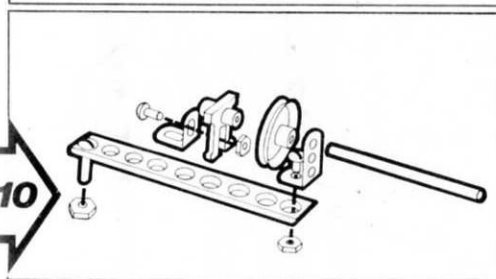
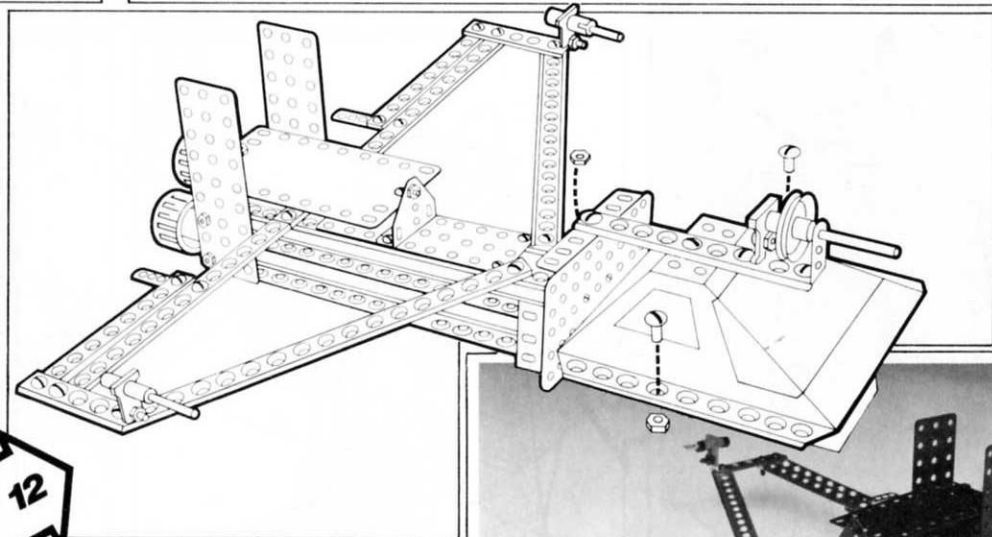
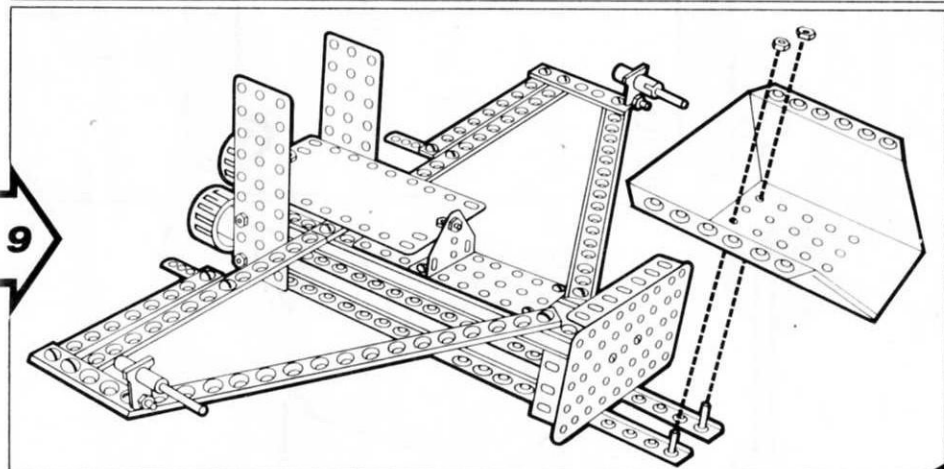
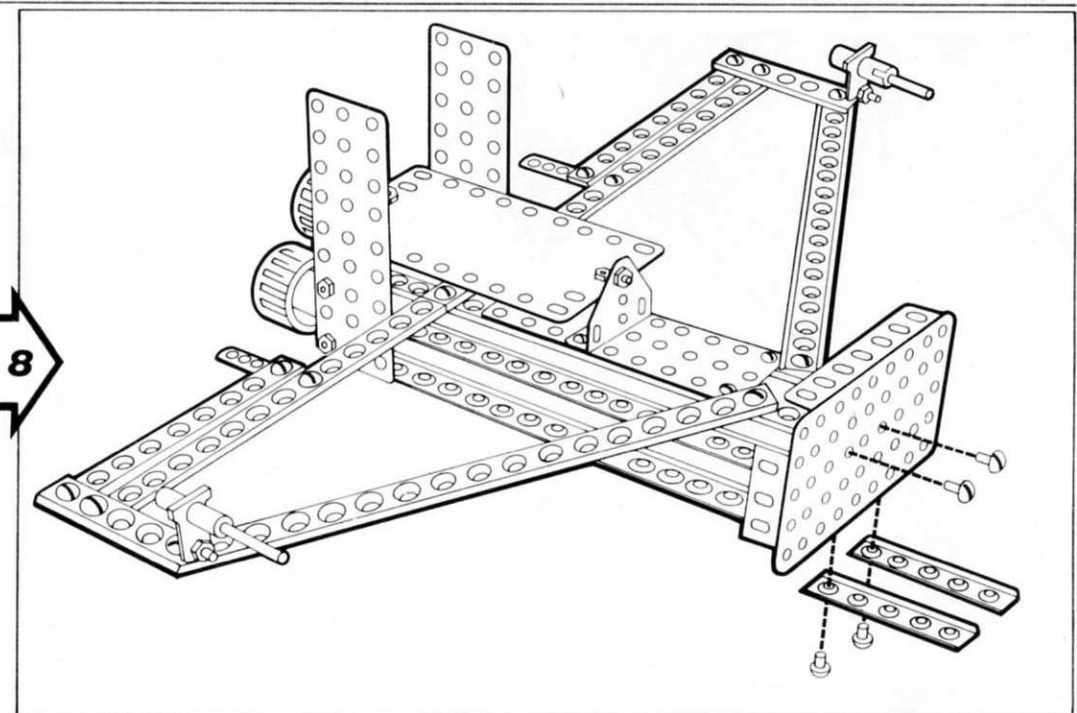
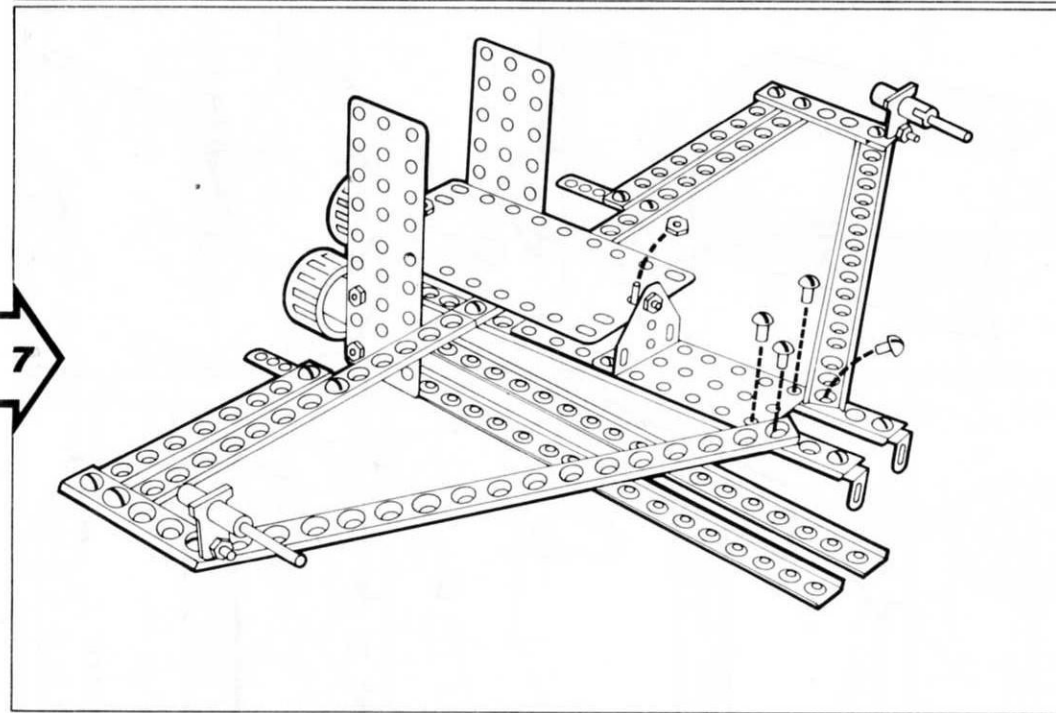
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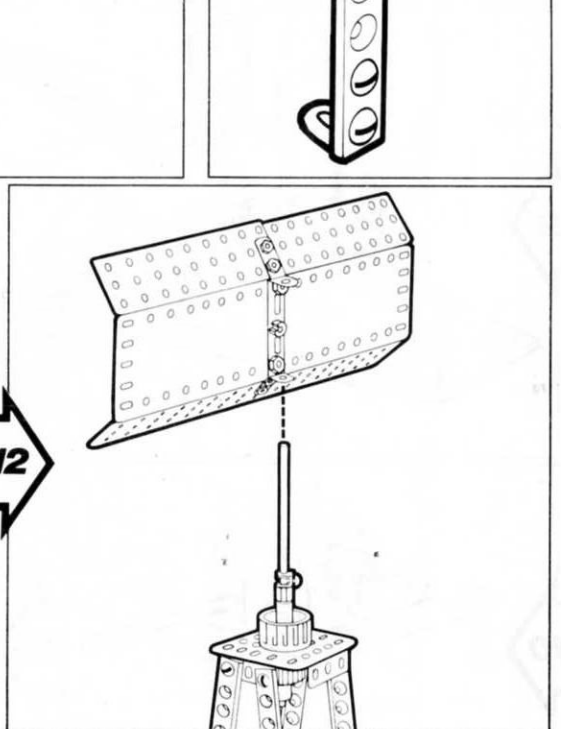
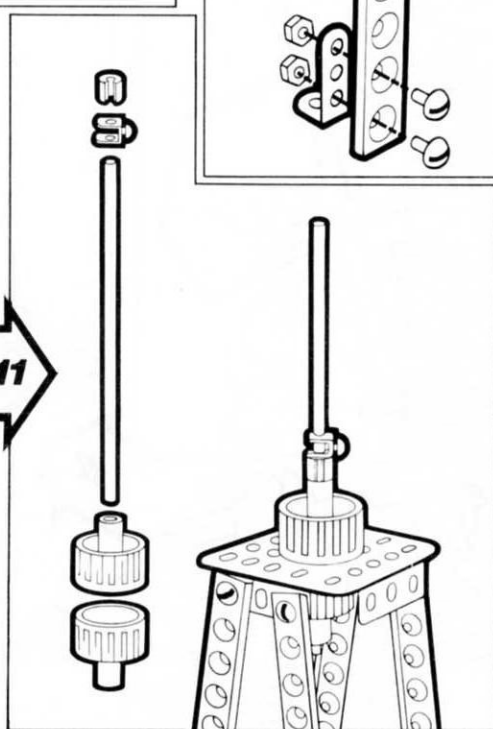
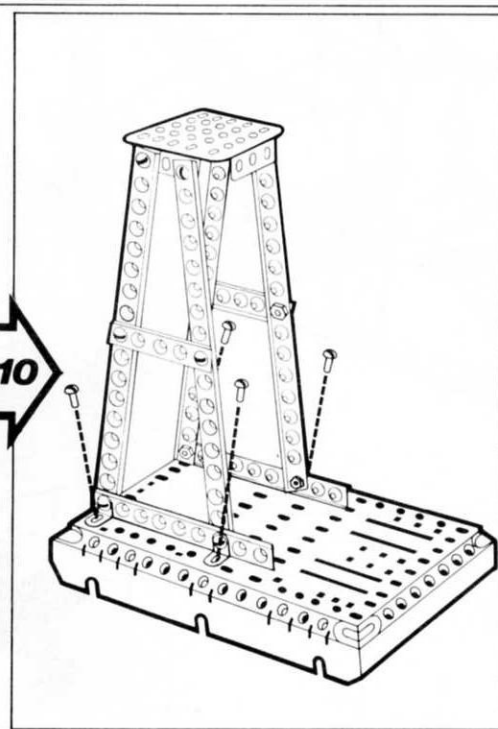
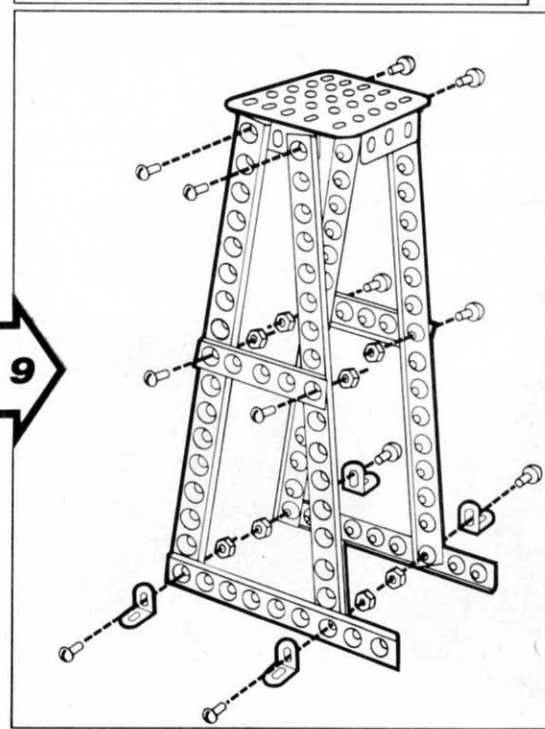
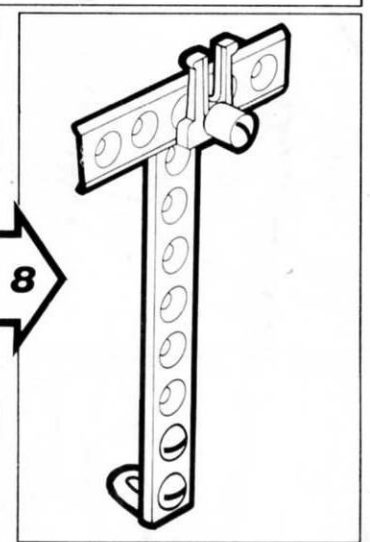
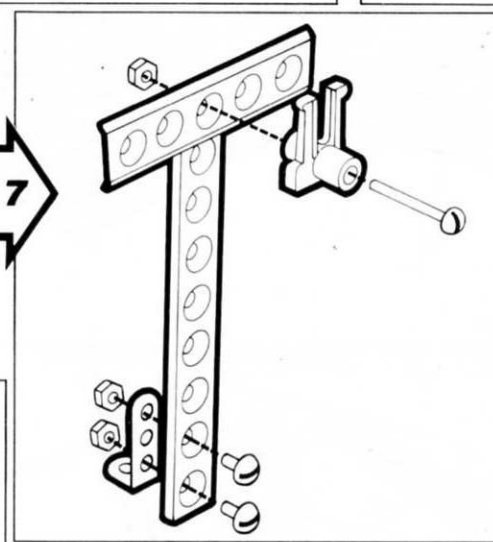
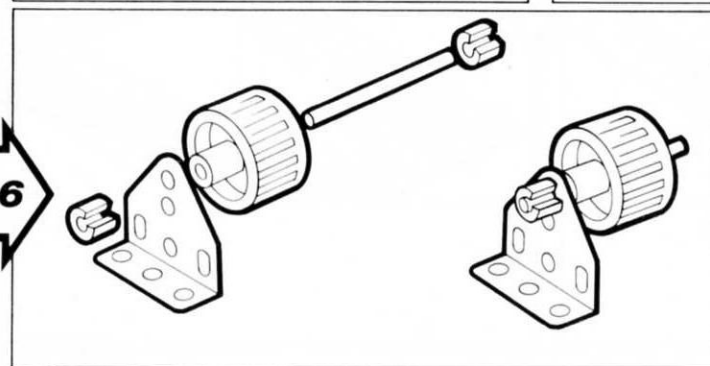
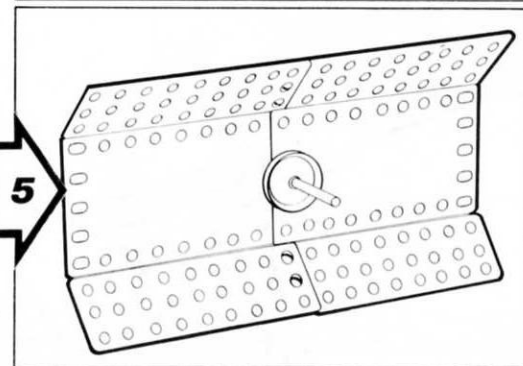
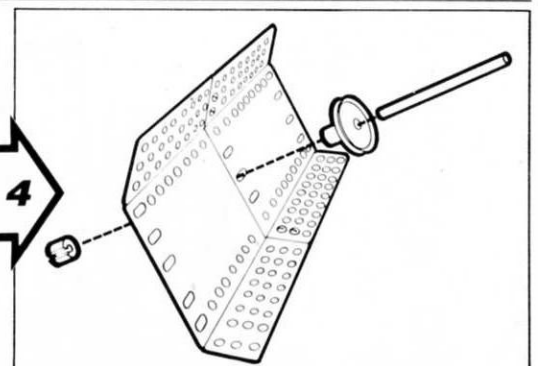
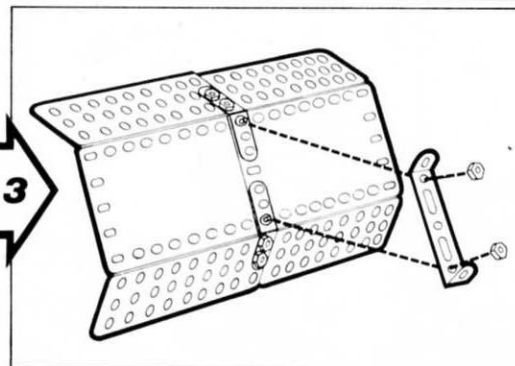
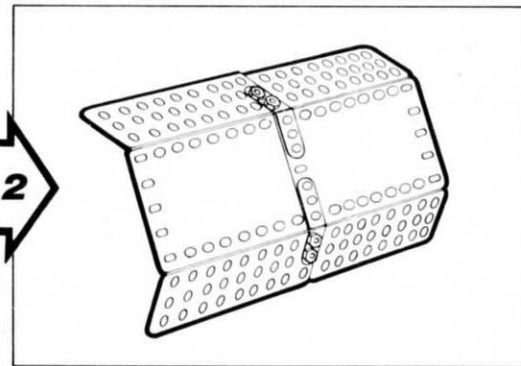
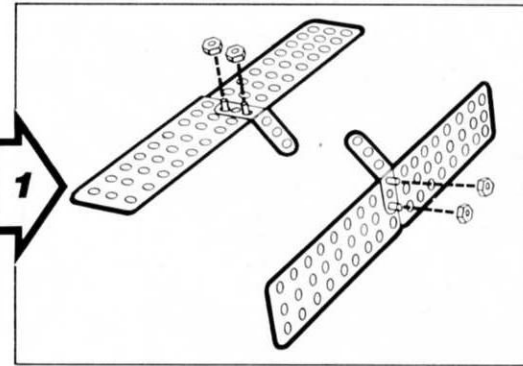


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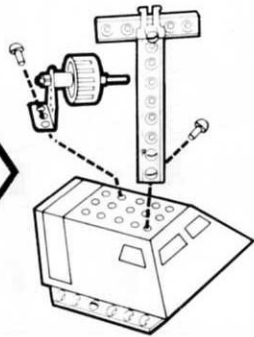




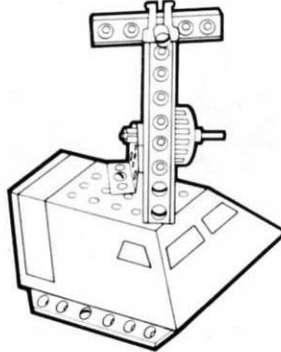




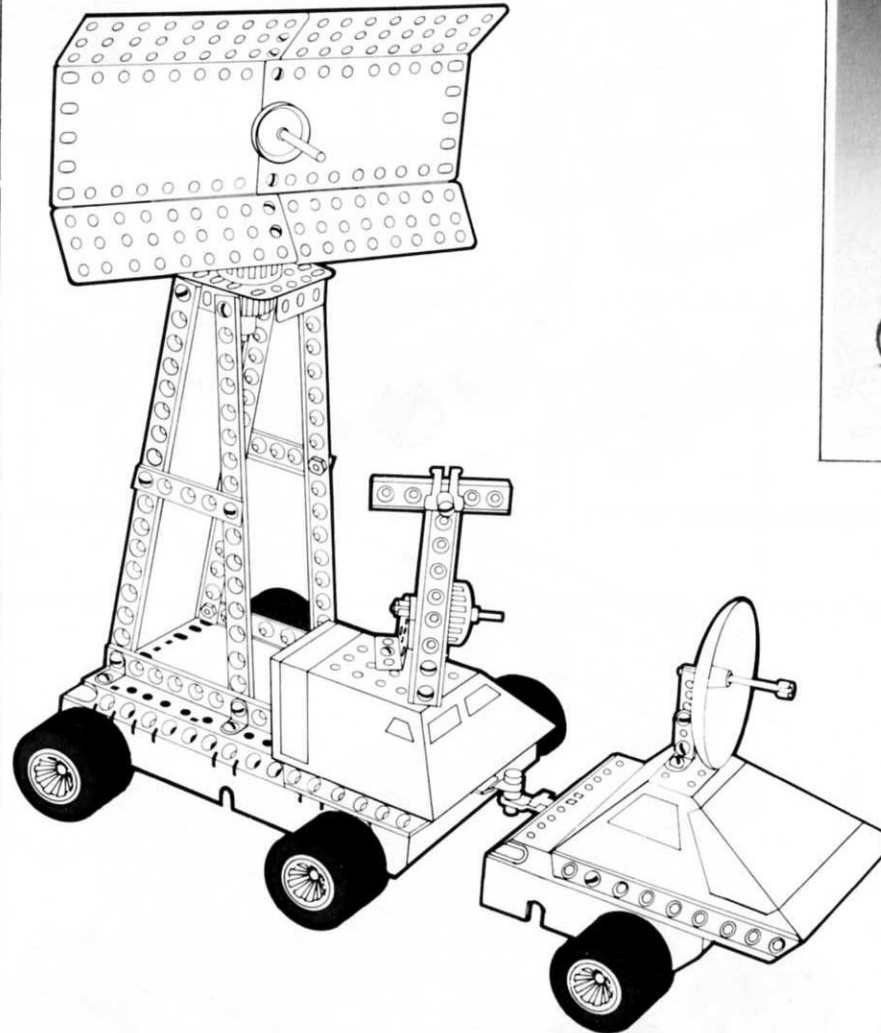
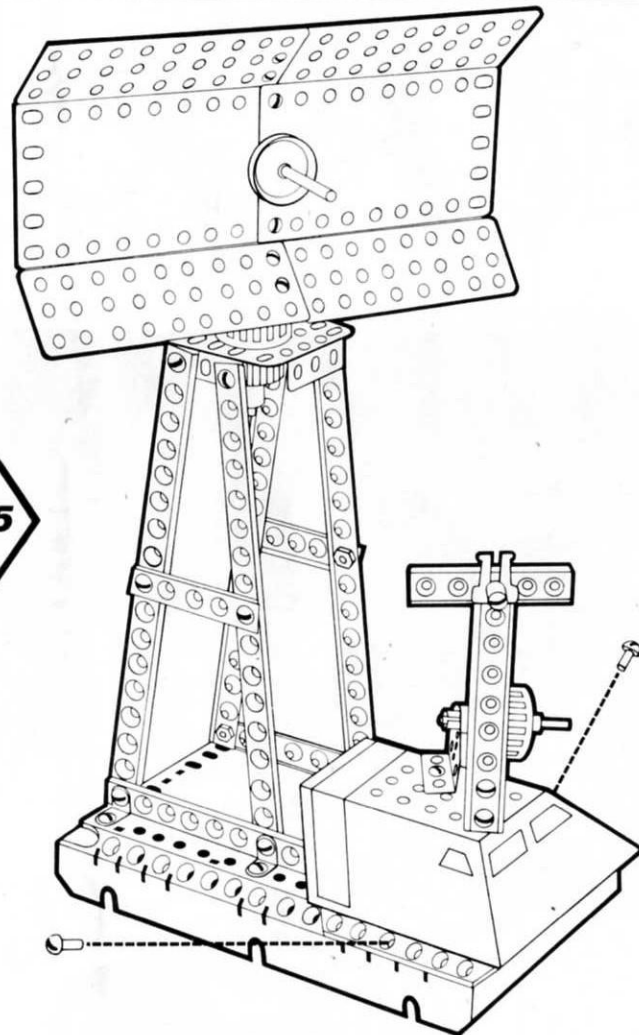
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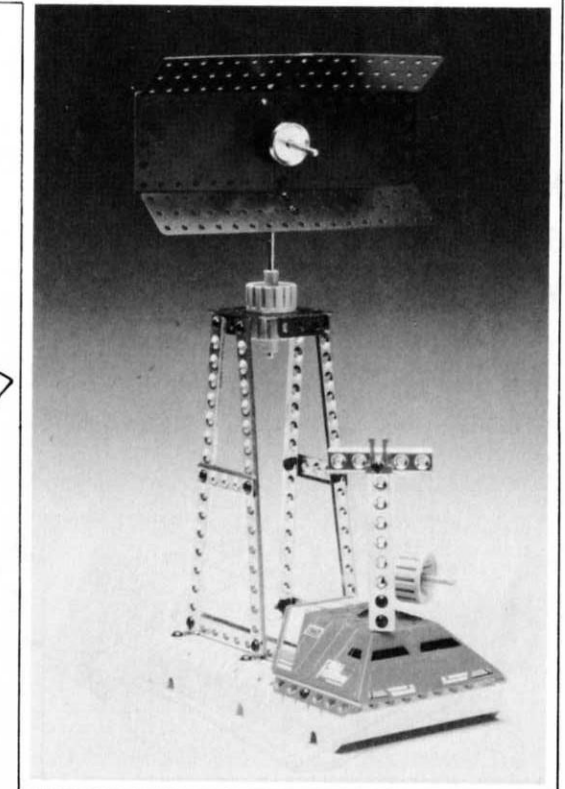
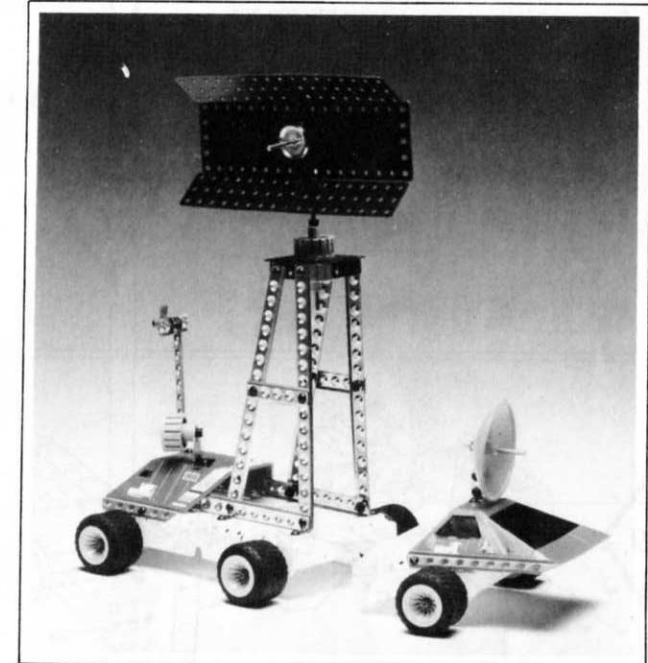
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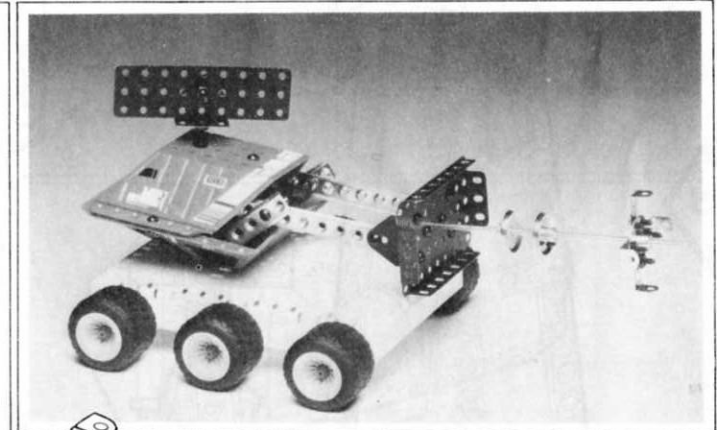
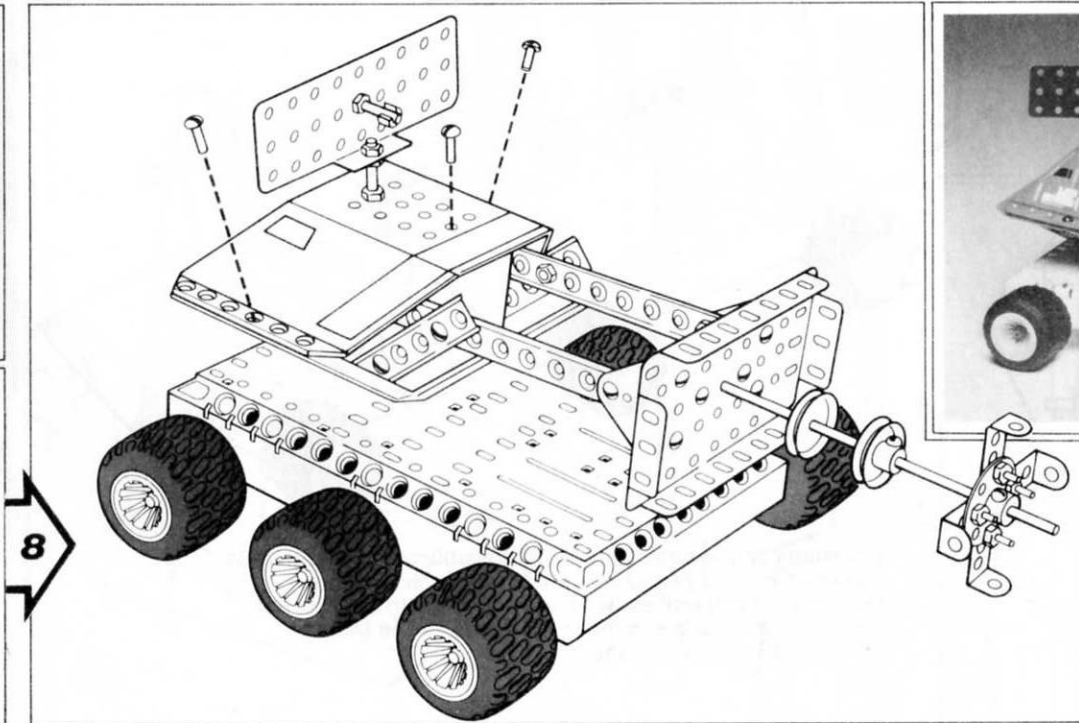
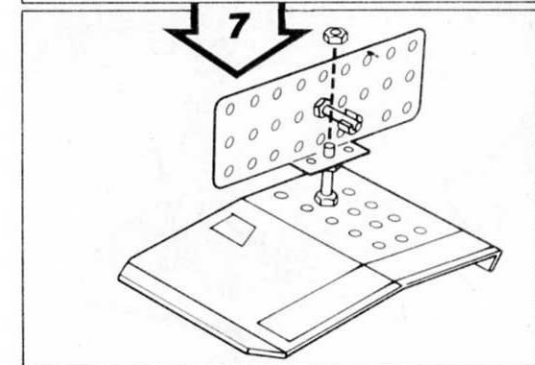
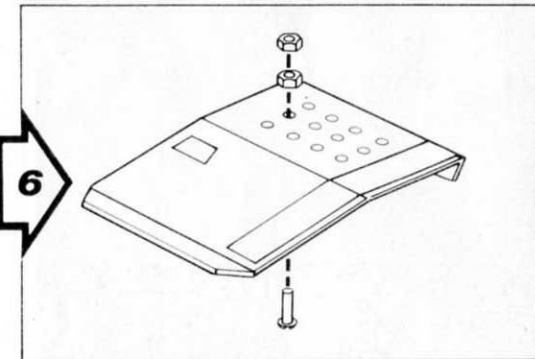
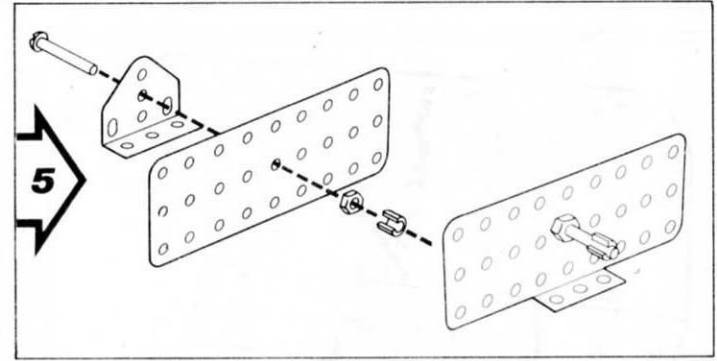
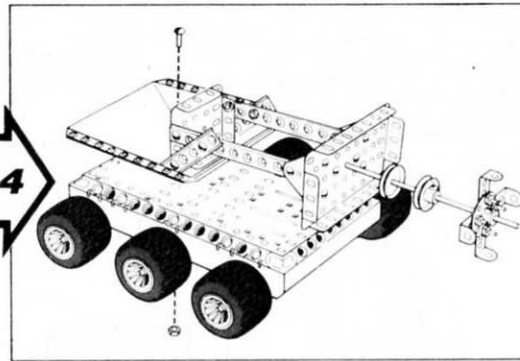
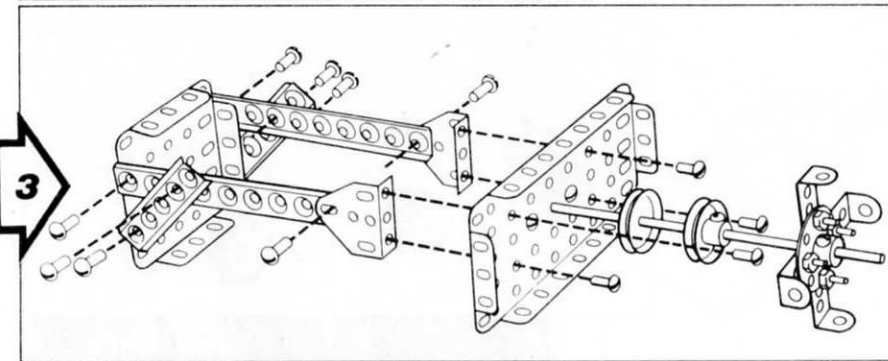
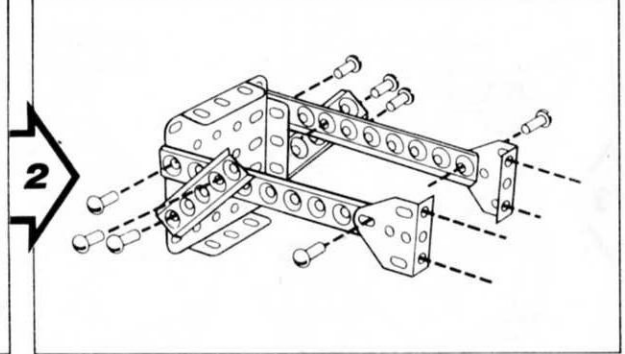
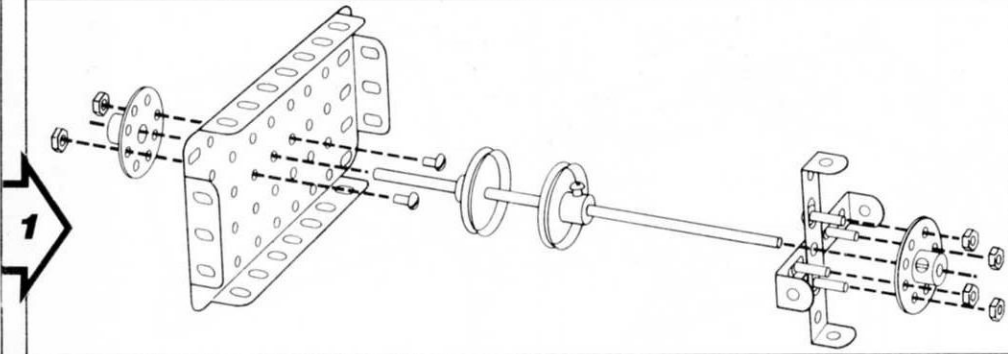
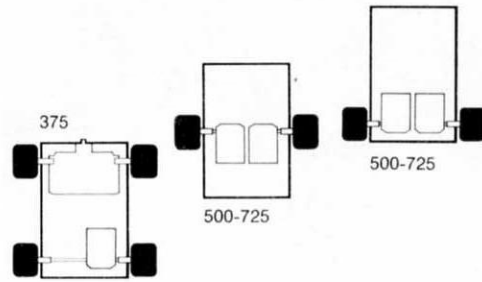
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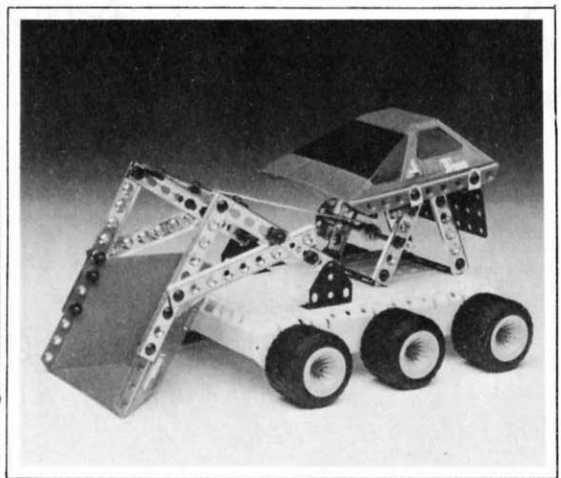
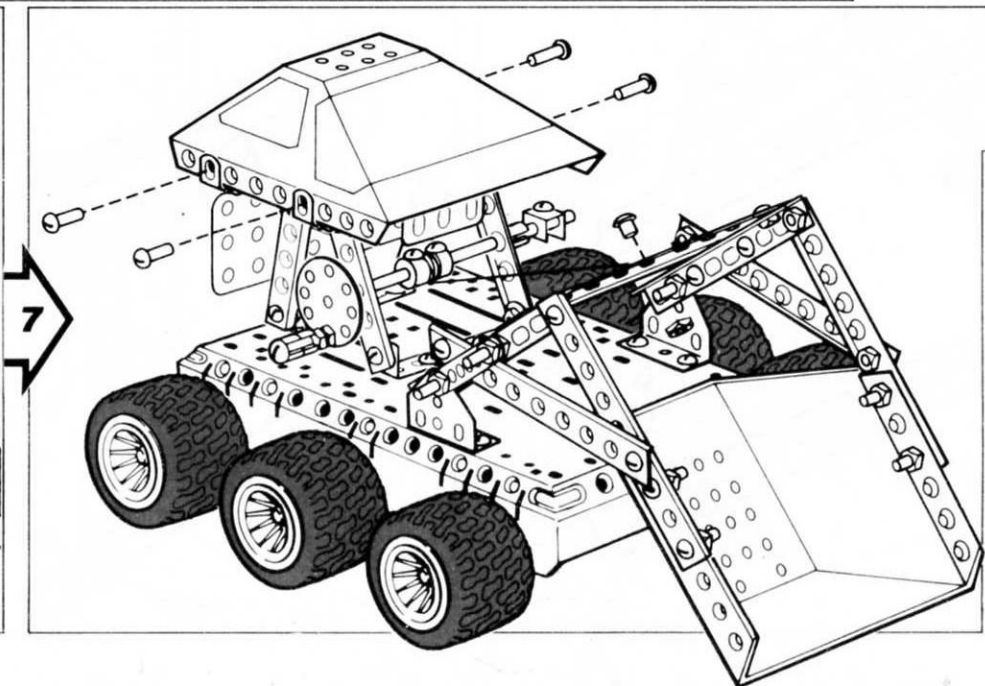
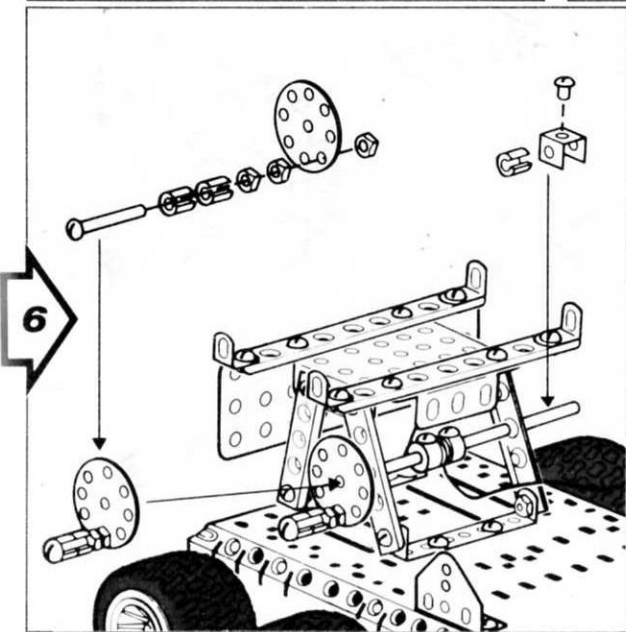
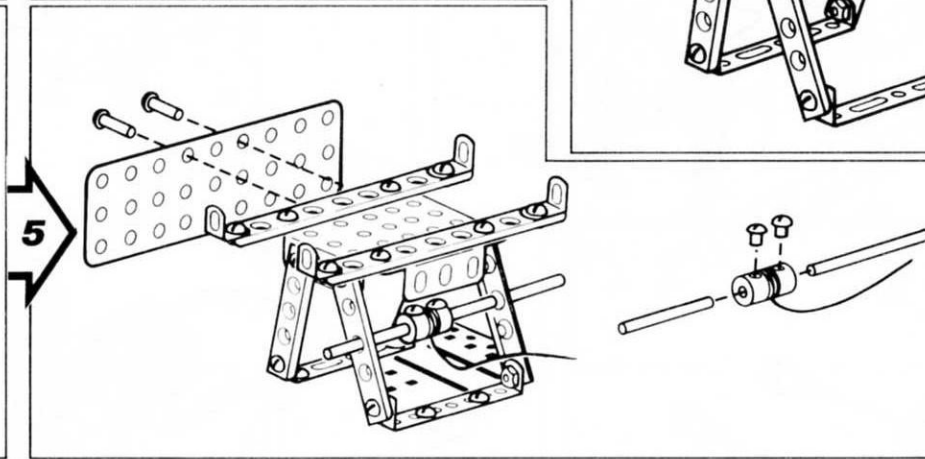
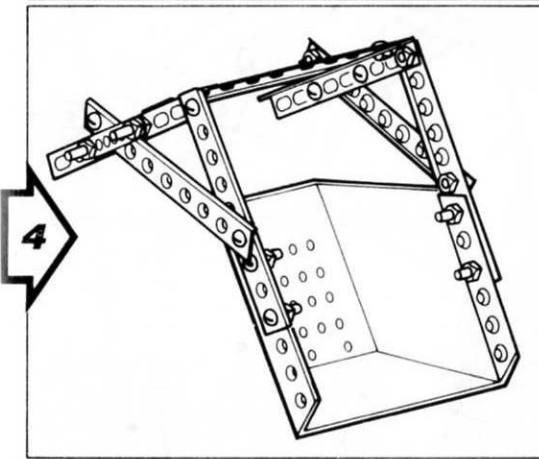
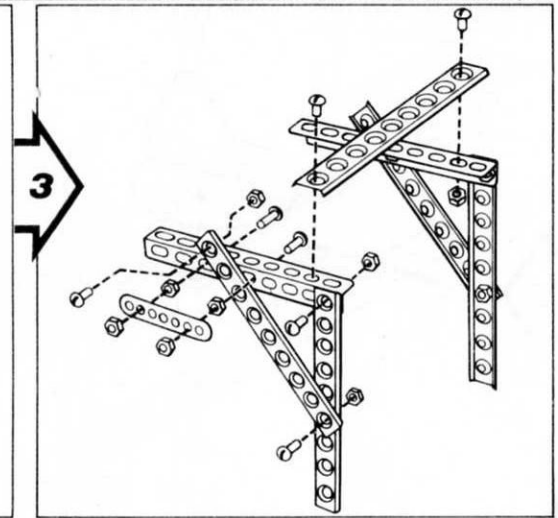
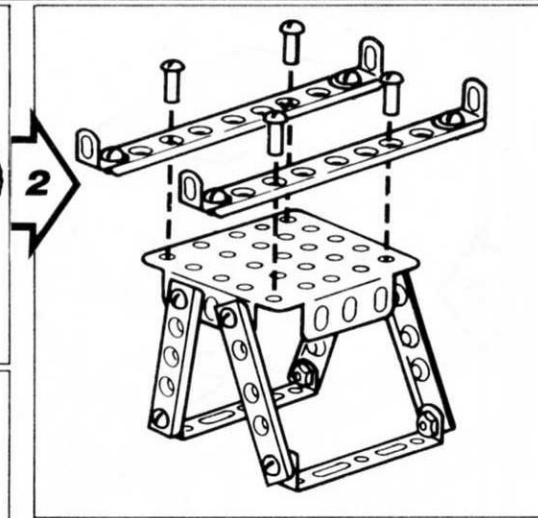
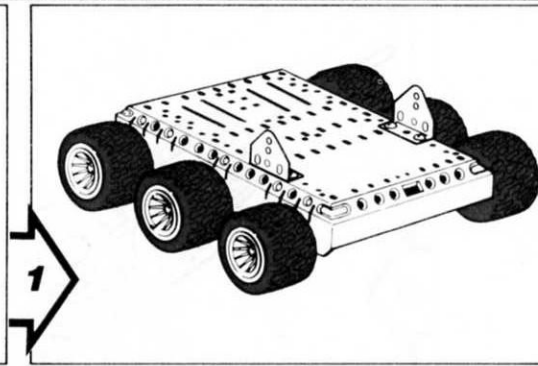
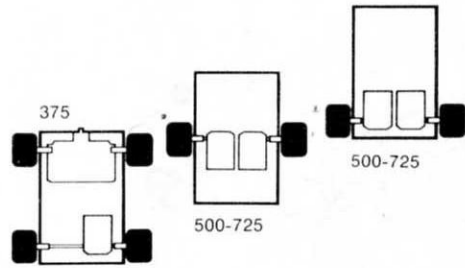
Variations on the basic model are possible by using the parts that remain in the larger sets after construction. As an example the cab unit shown can be made with set 725. For construction details see the instructions for the Mission Command Vehicle on page 30/31.



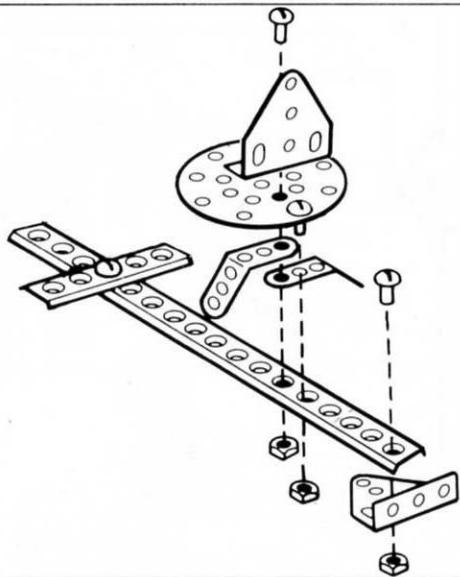
Suggested Motor position for sets 375-500-725



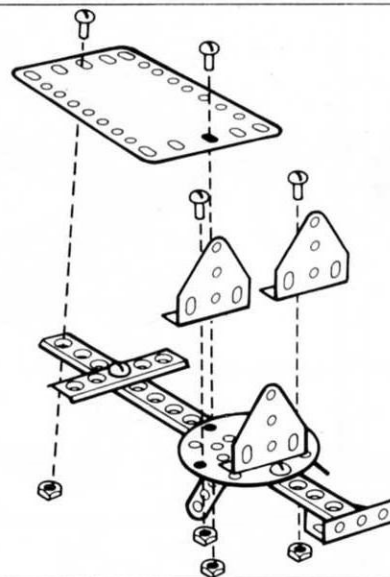
Suggested Motor position for sets 375-500-725



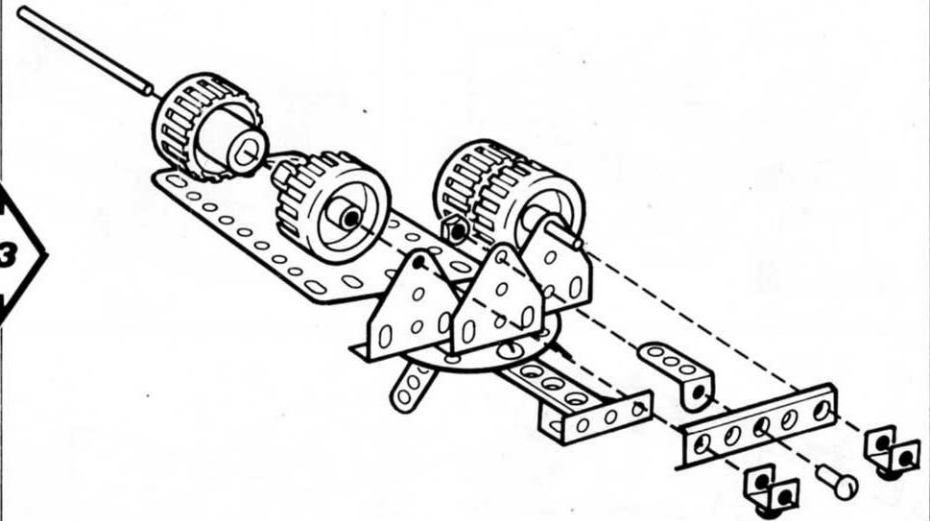
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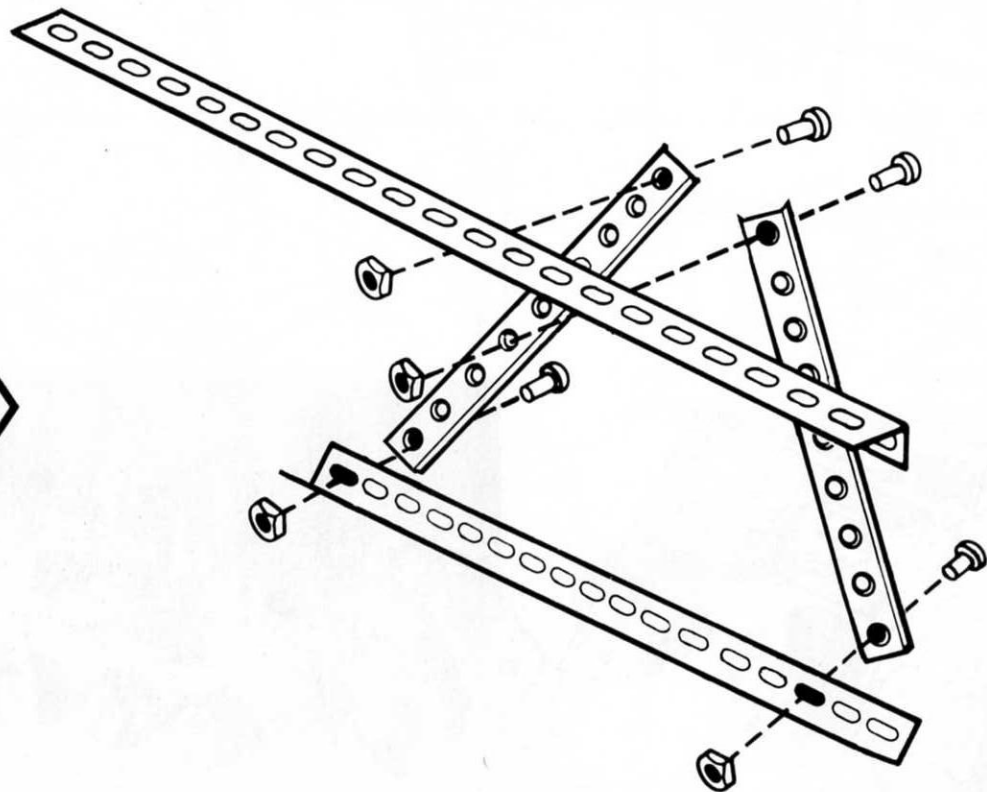
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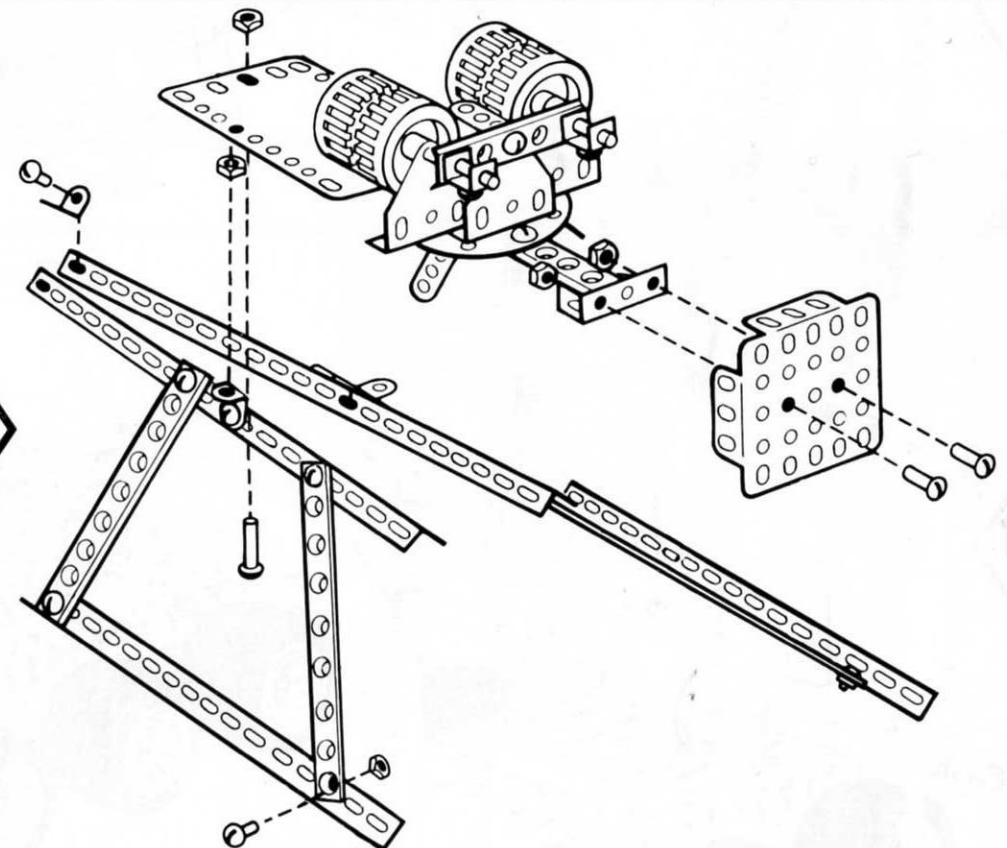
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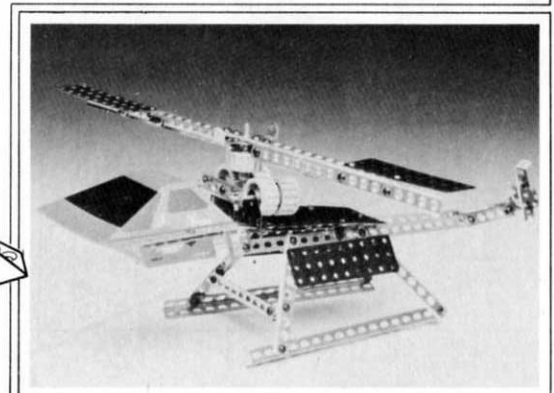
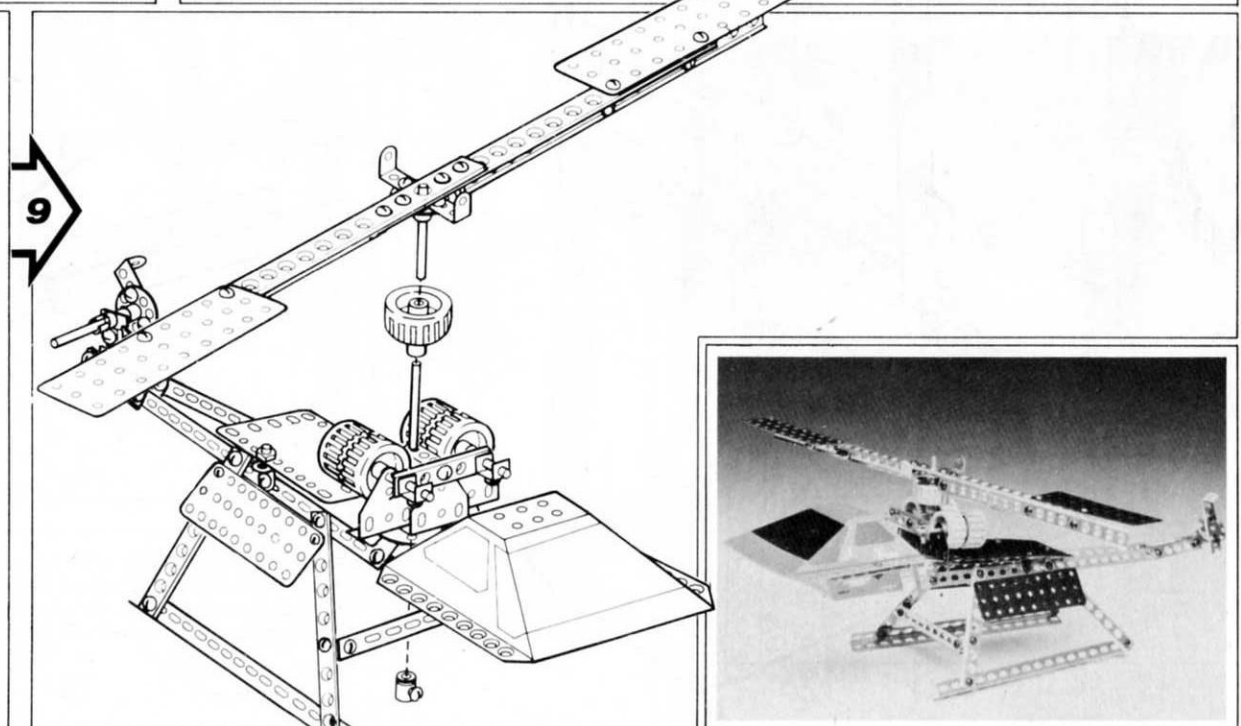
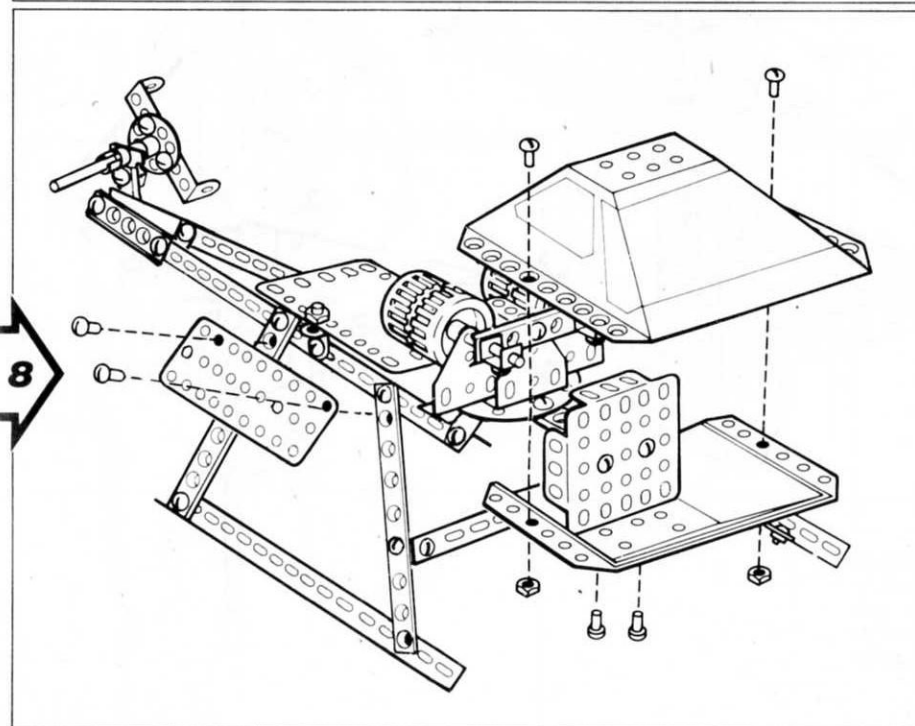
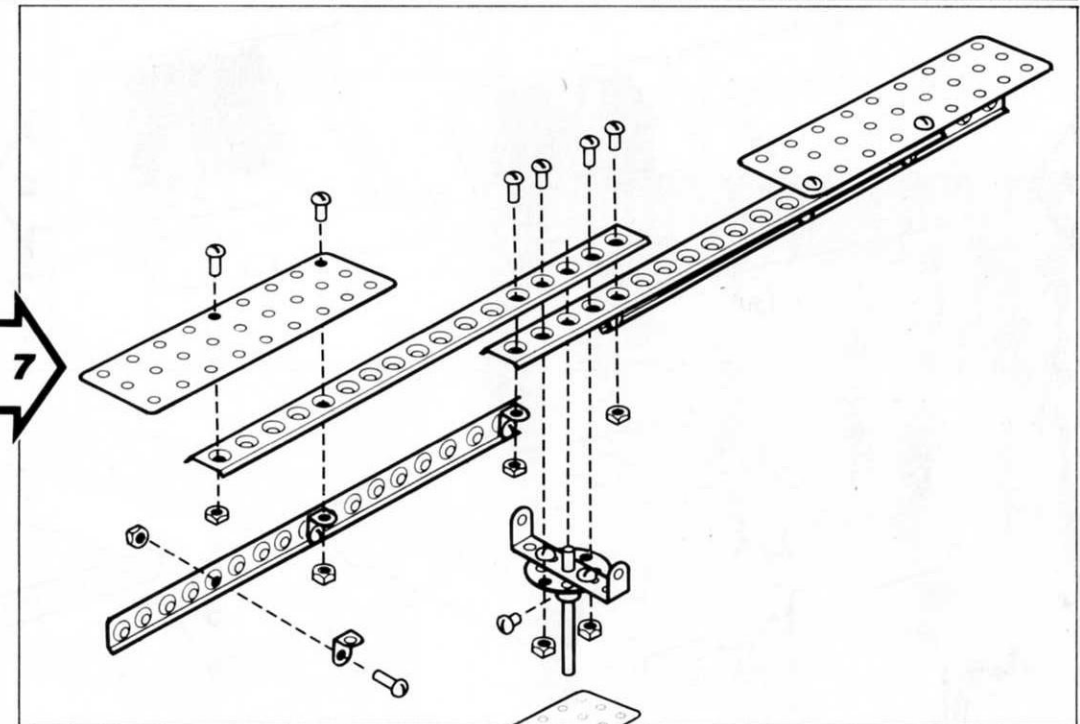
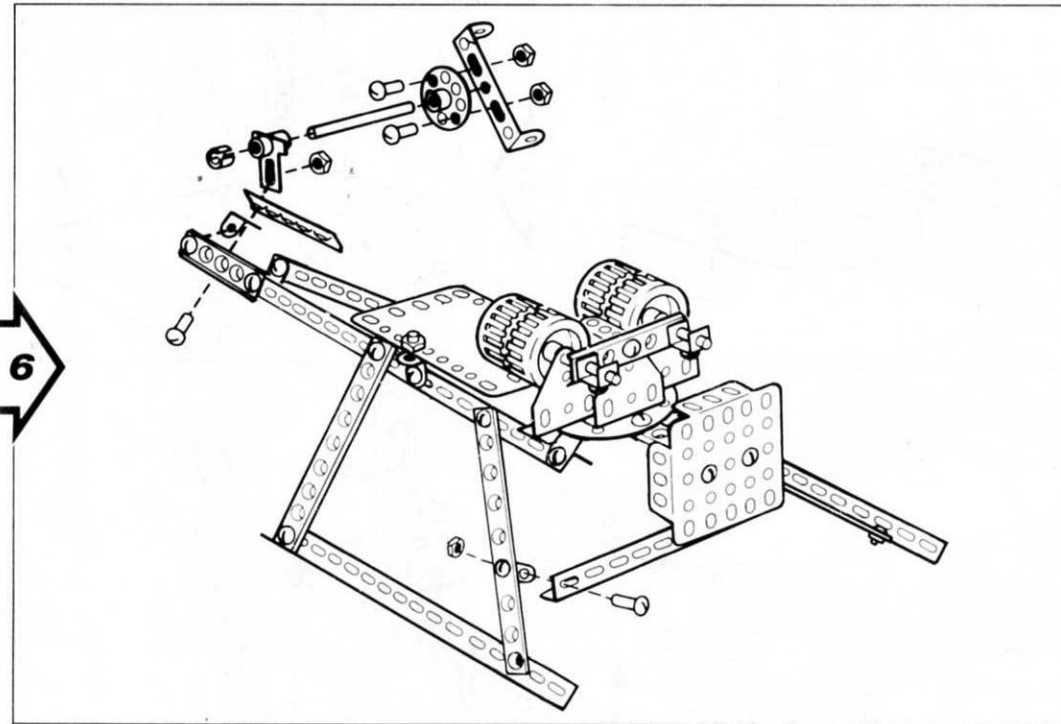


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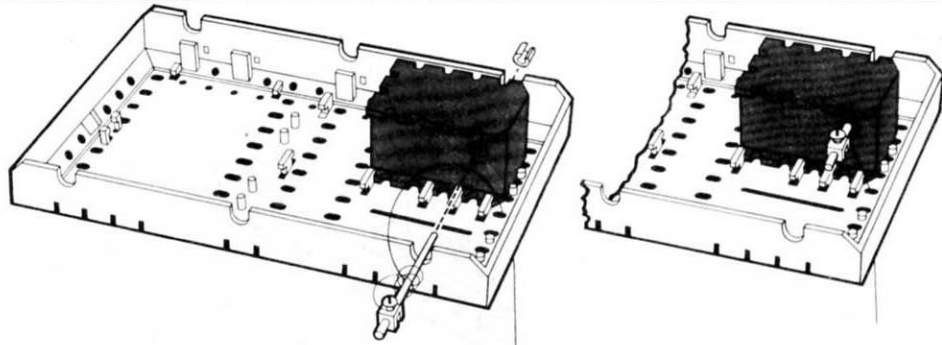


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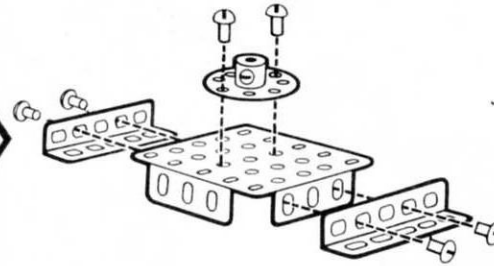




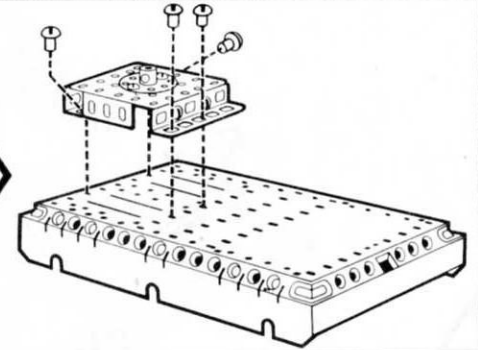
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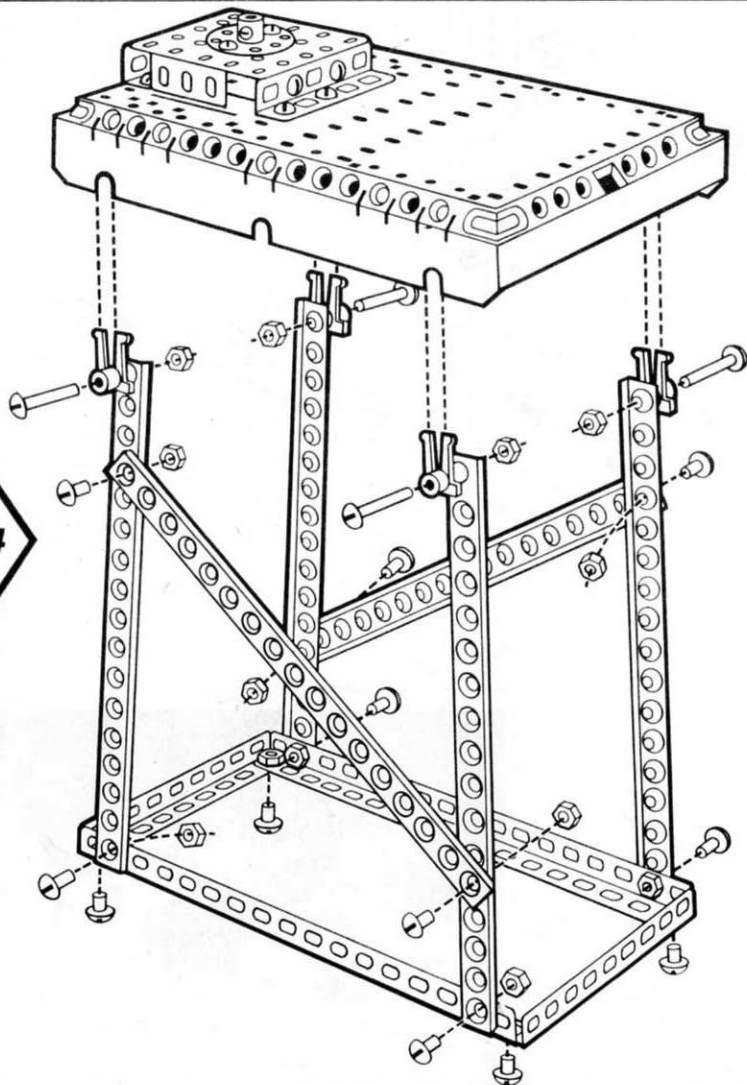
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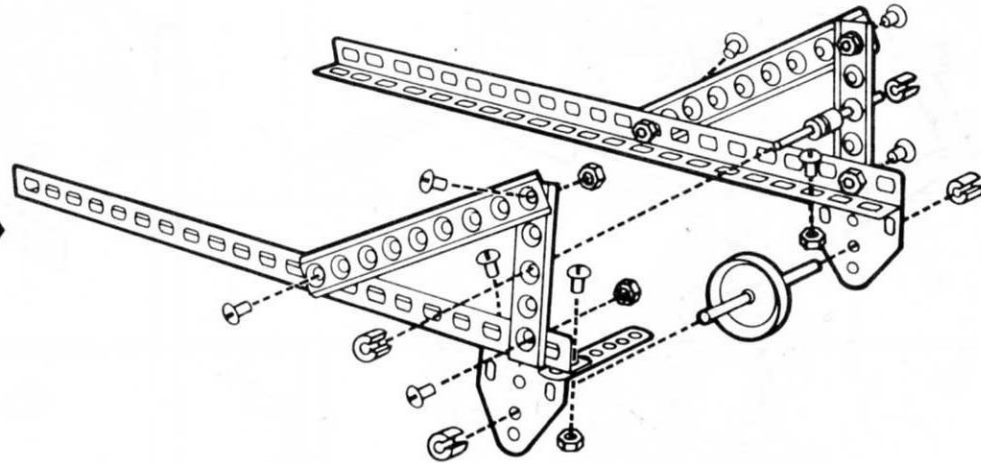
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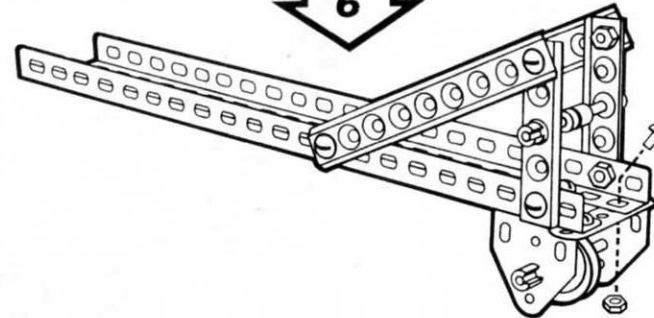
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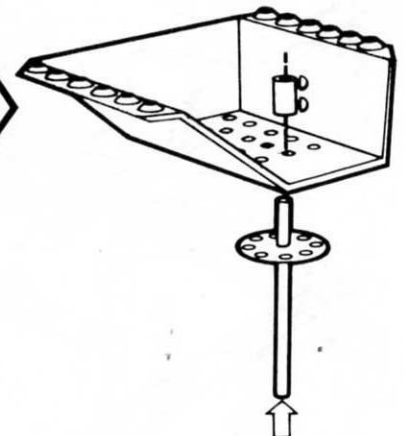
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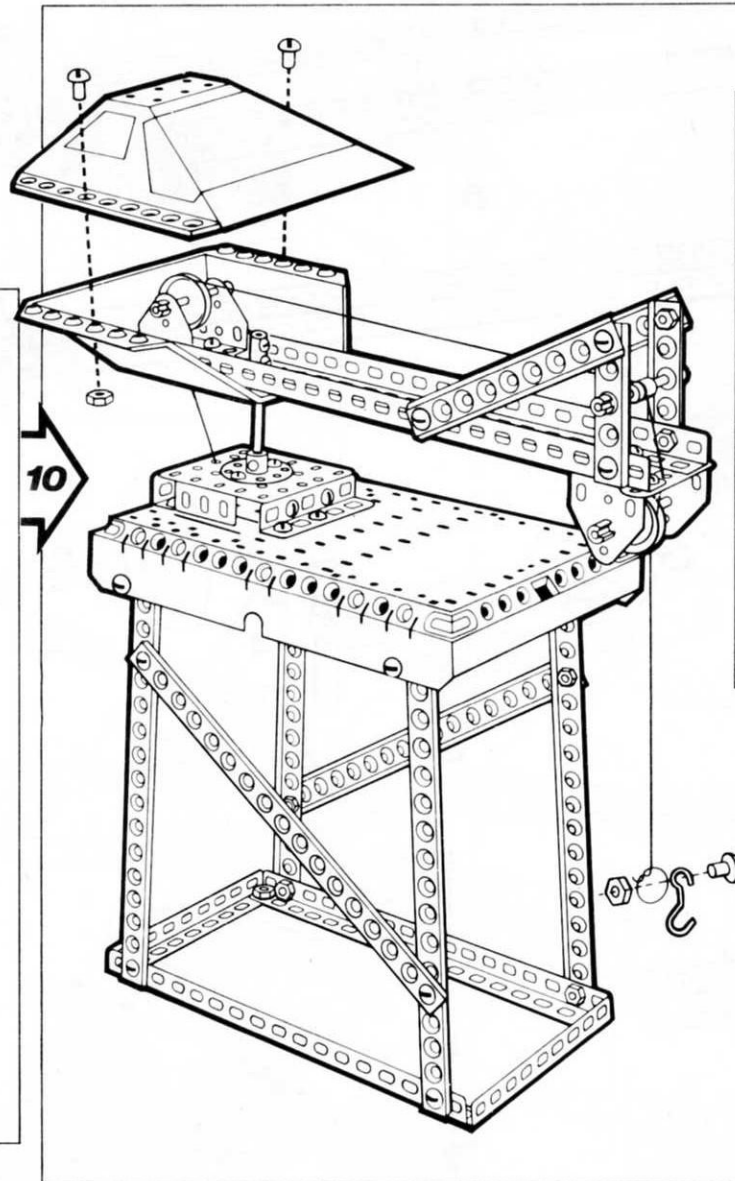
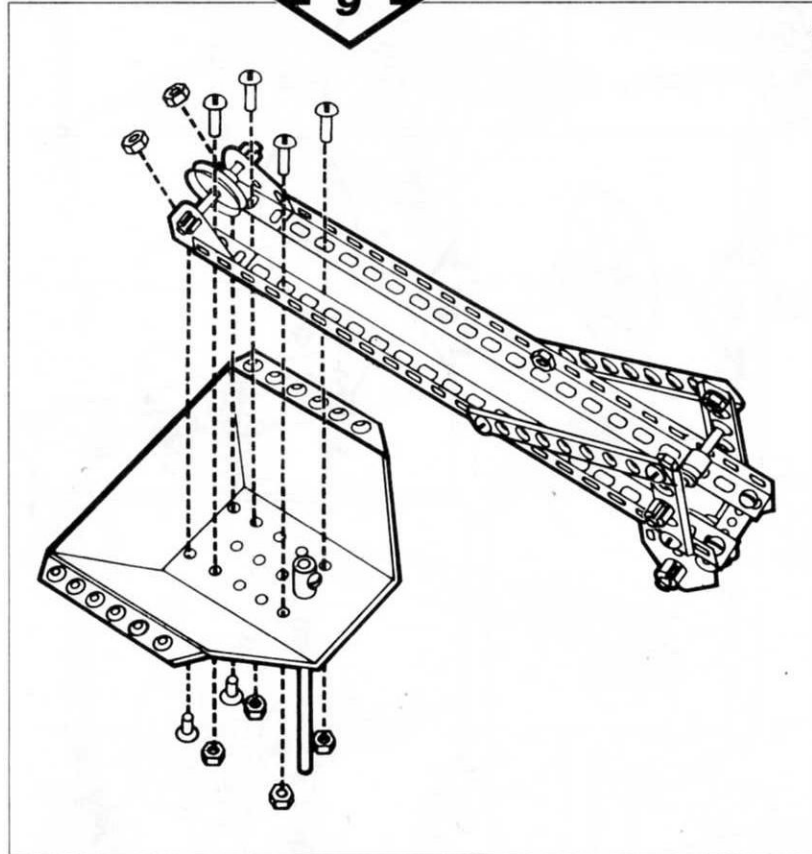
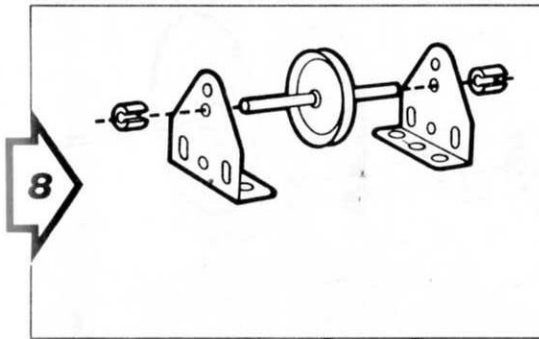


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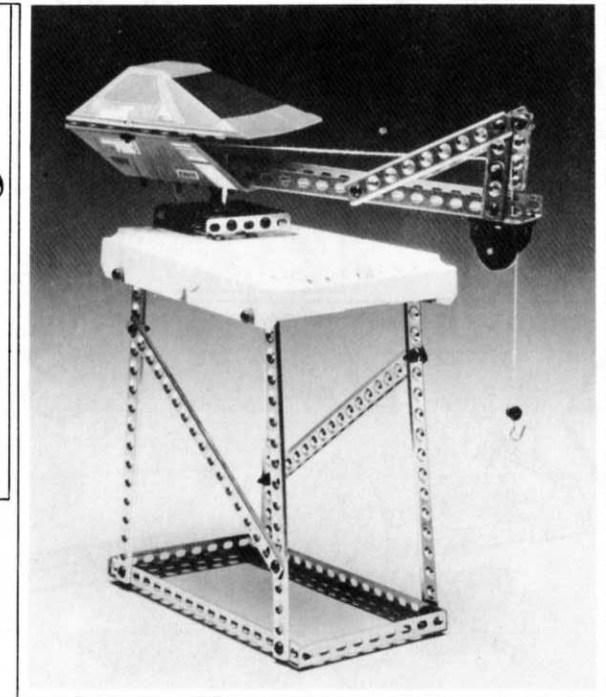
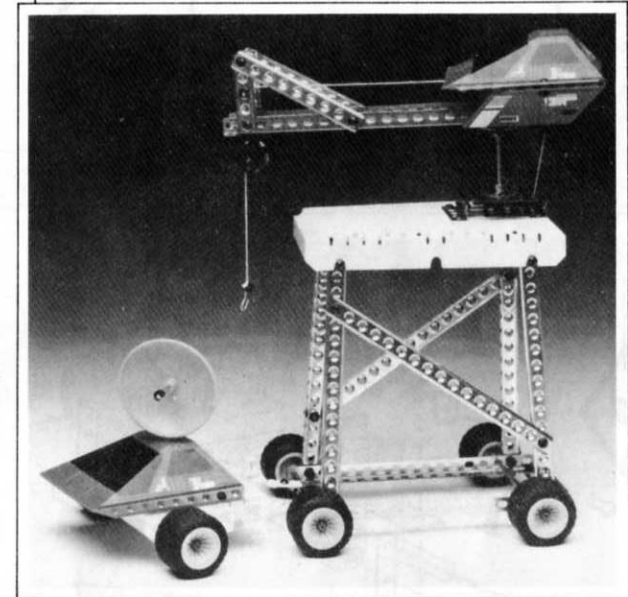


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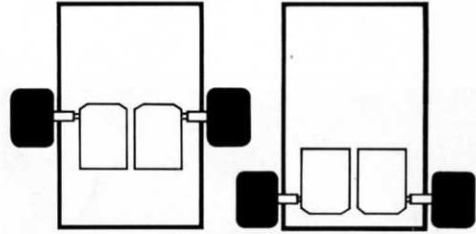




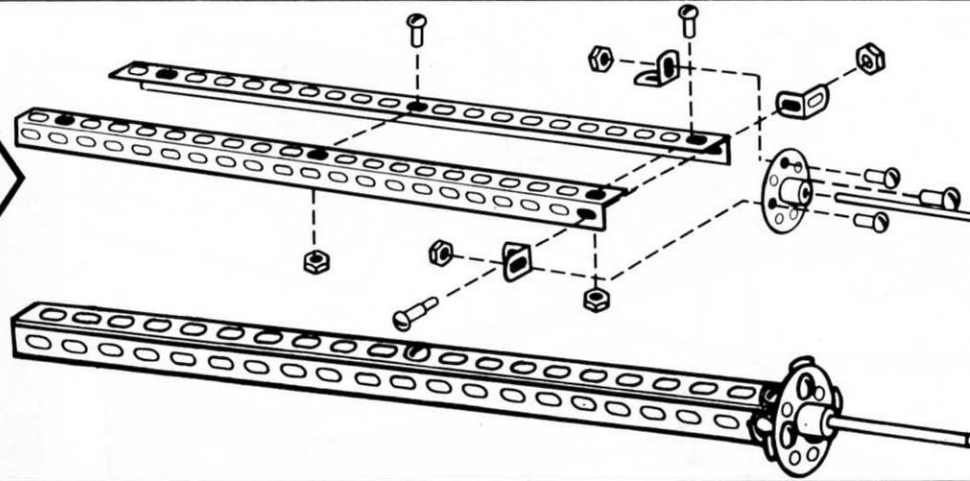
Variations on the basic model are possible by using the parts that remain in the larger sets after construction. As an example the cab unit shown can be made with set 725. For construction details see the instructions for the Mission Command Vehicle on page 30/31.



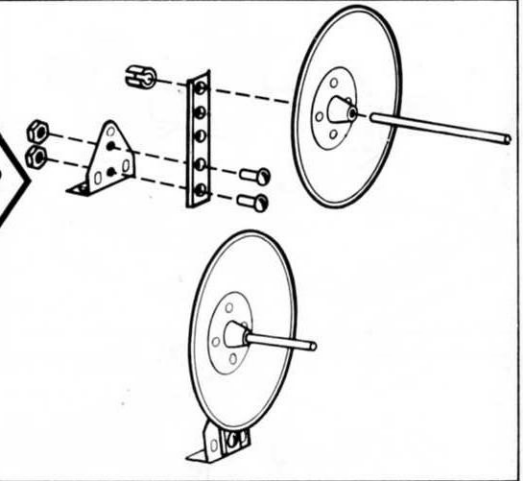
Suggested Motor position for sets 500-725



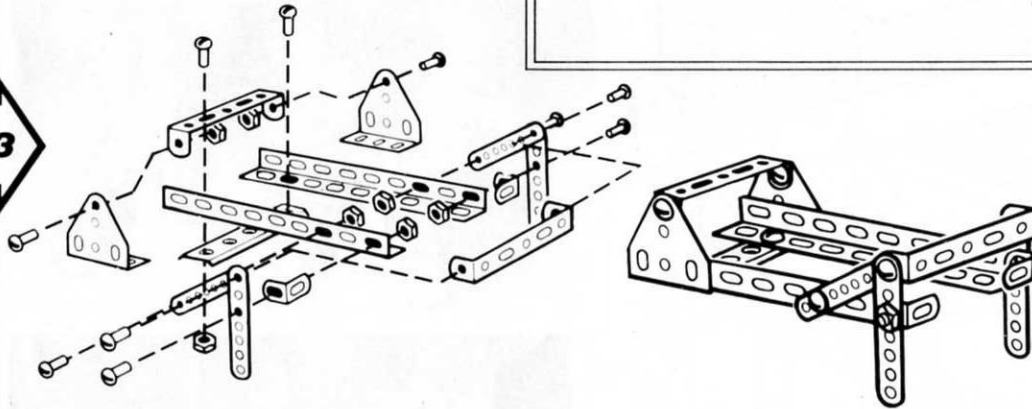
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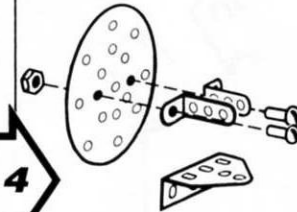
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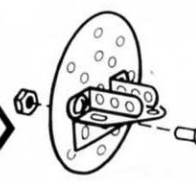
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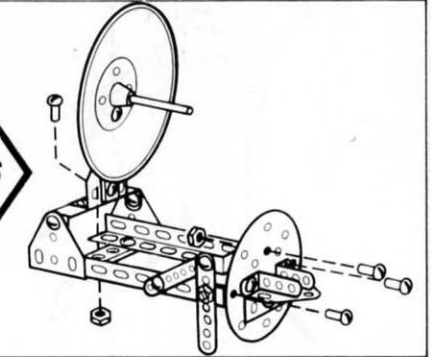
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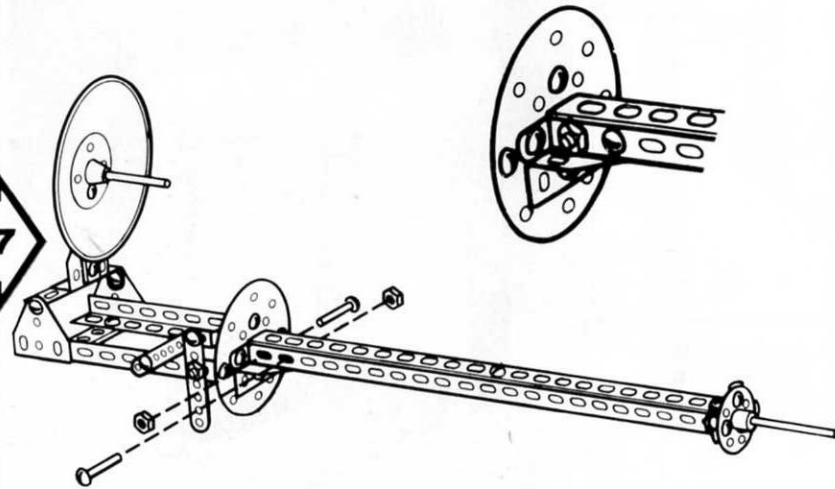
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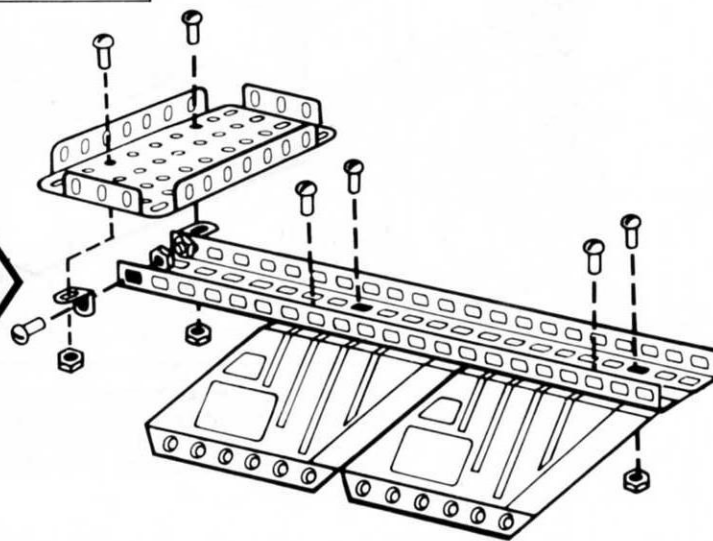
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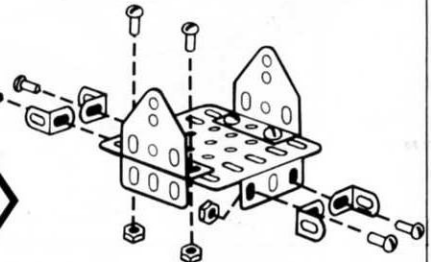
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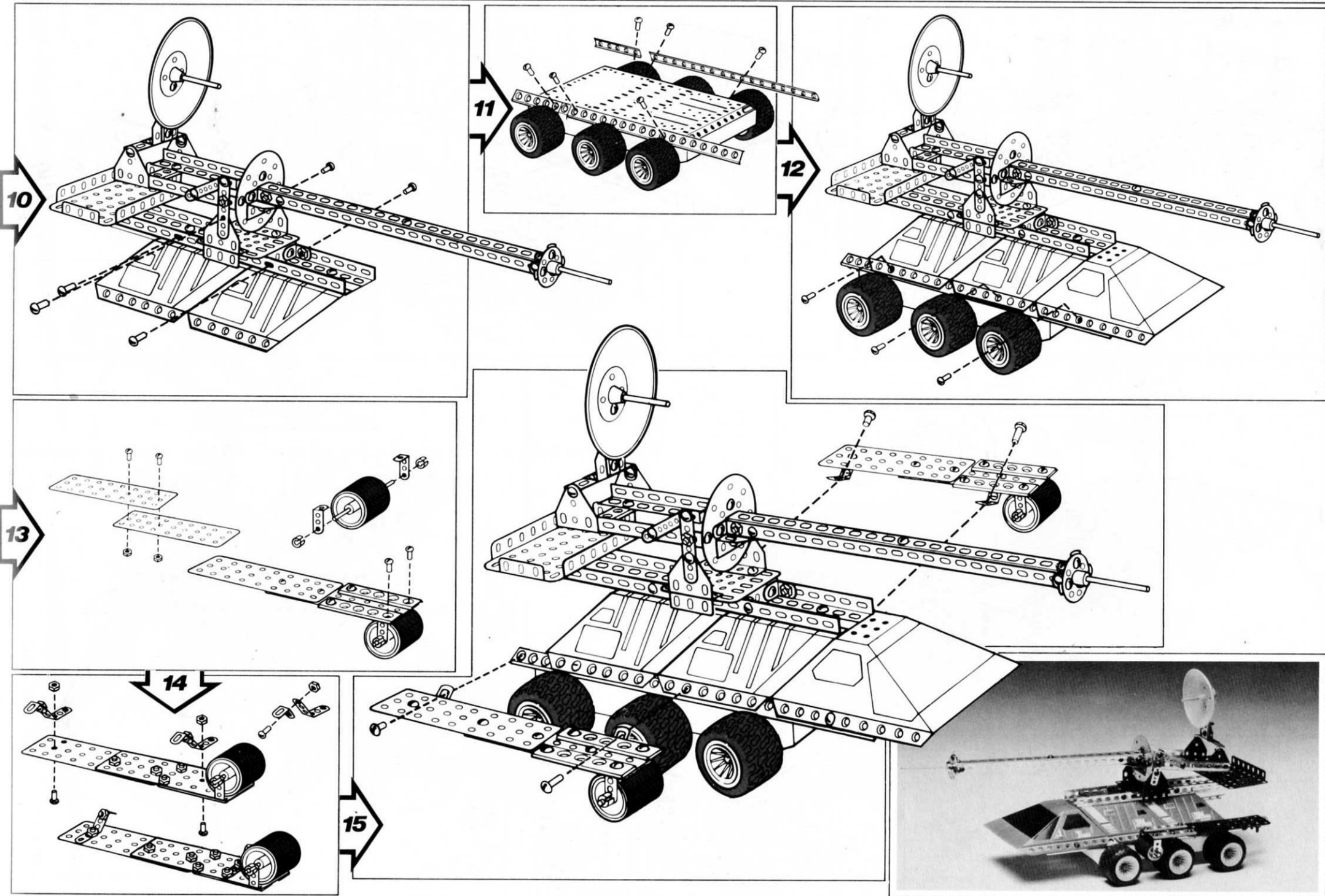


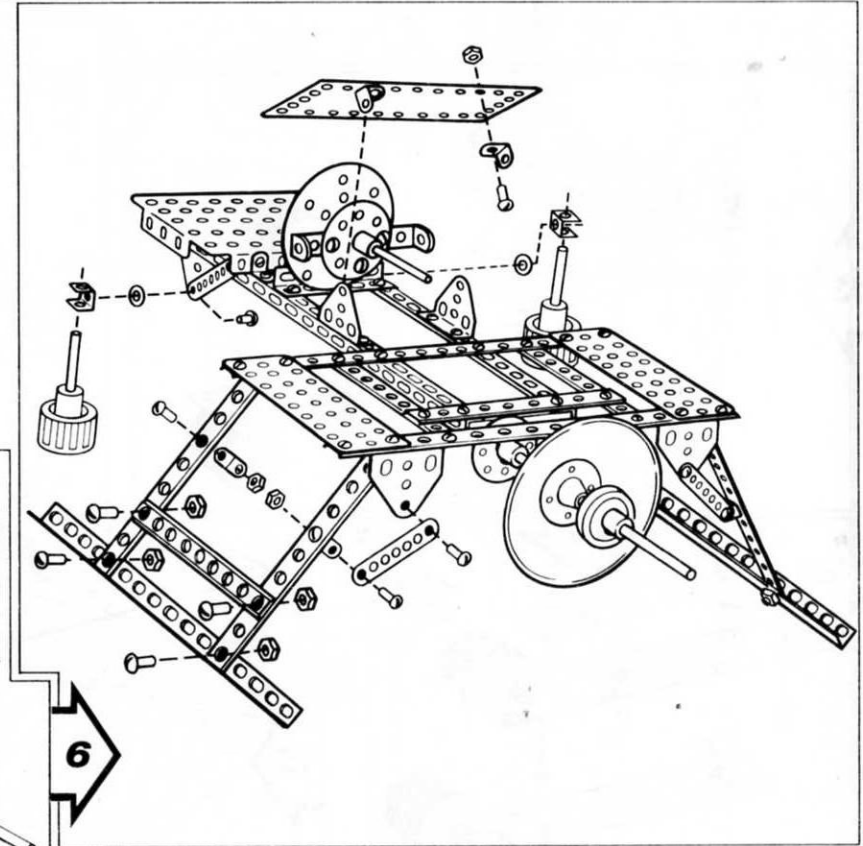
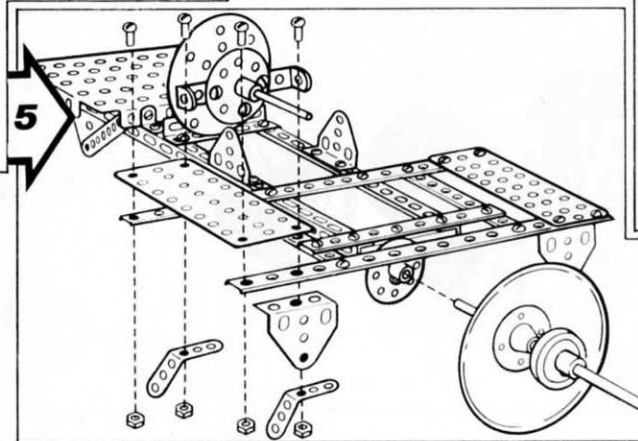
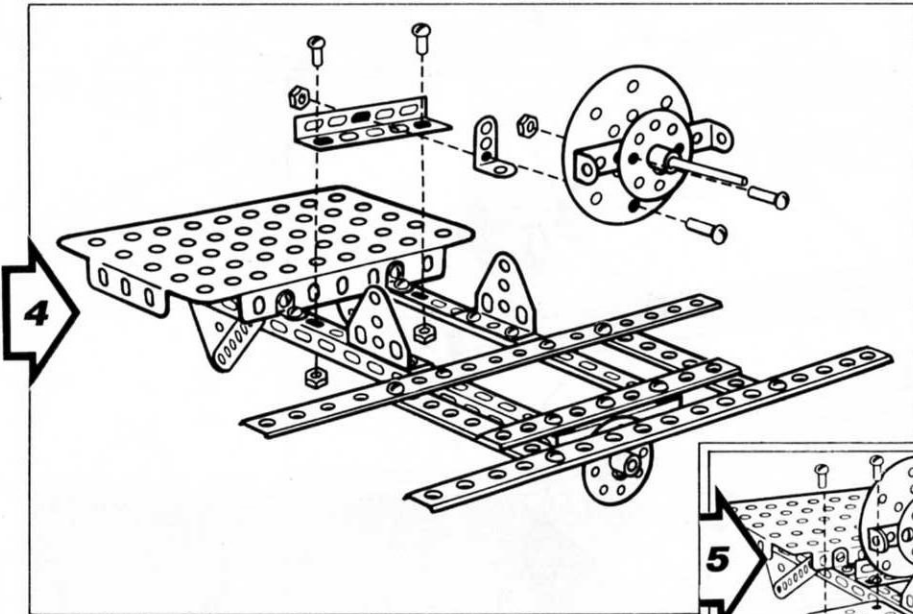
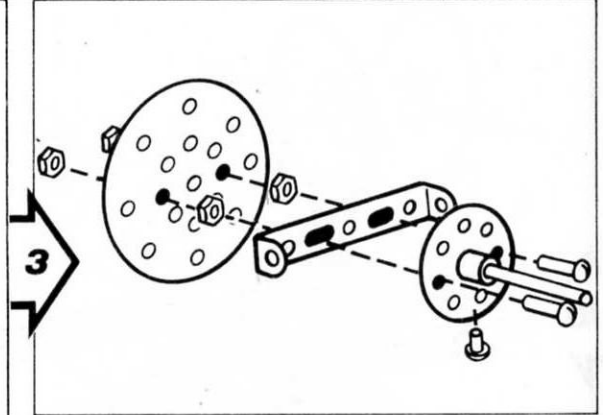
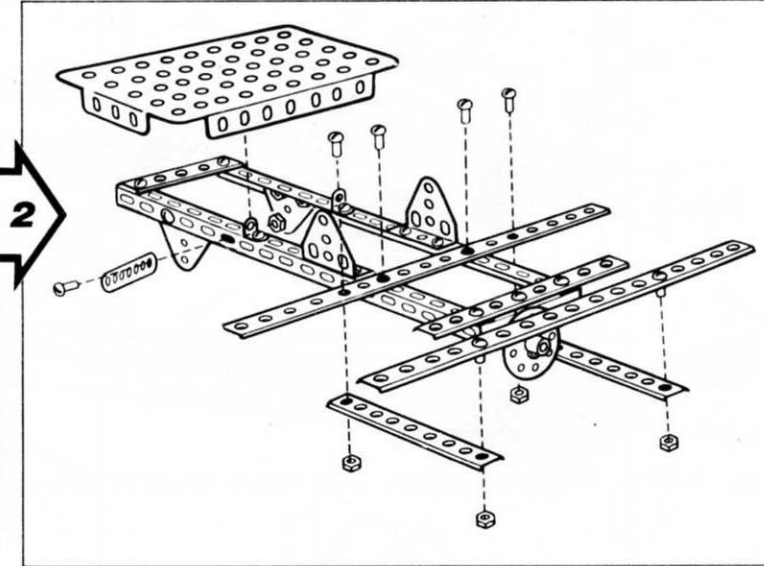
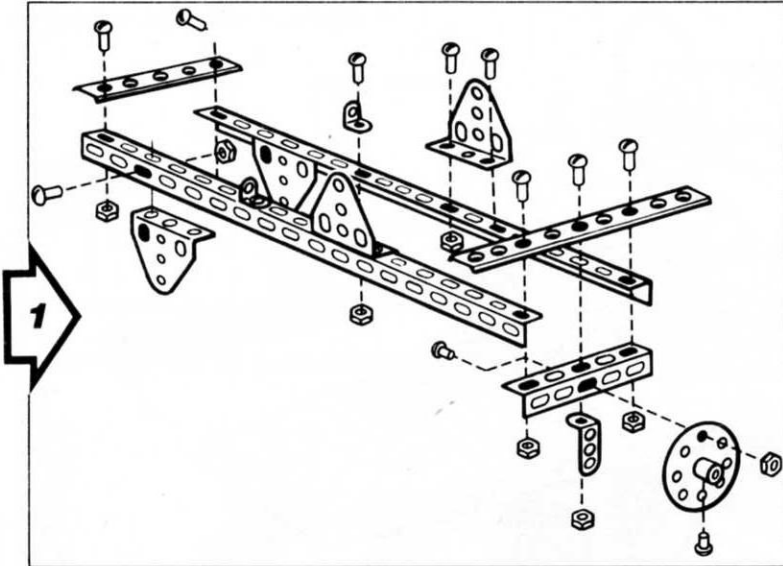
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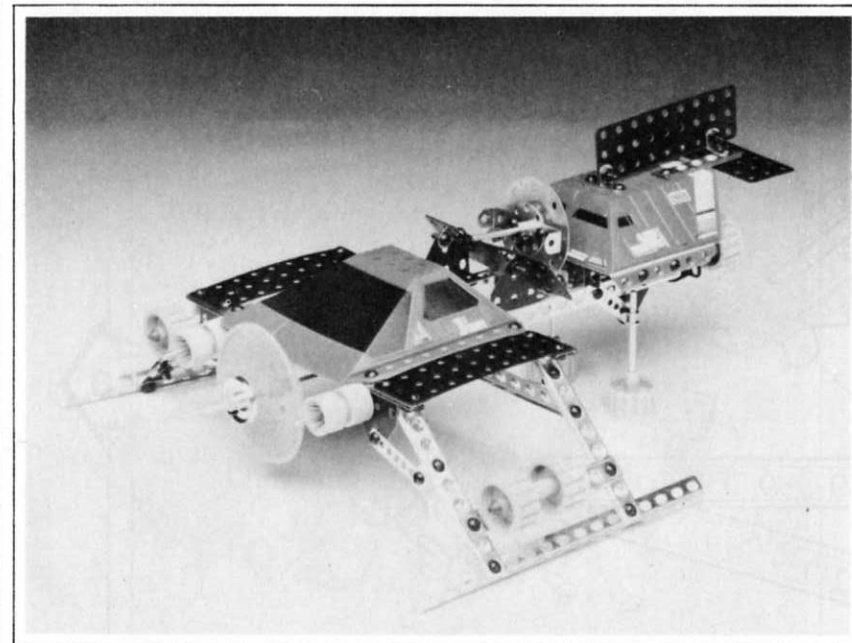
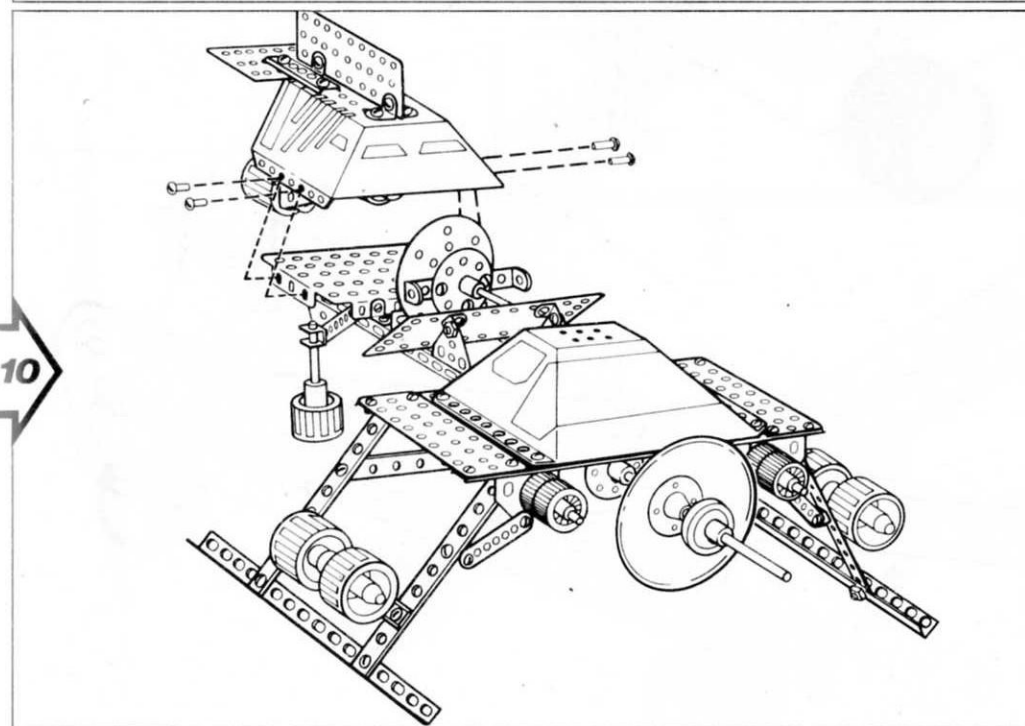
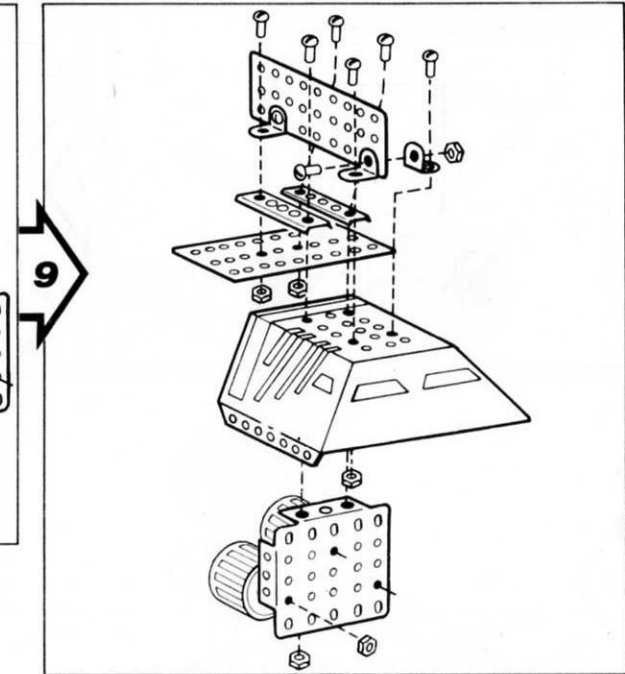
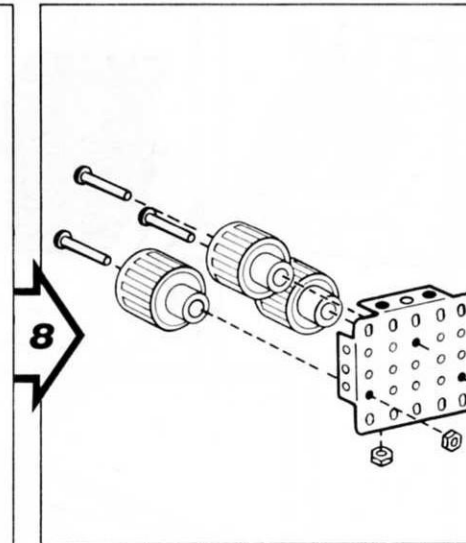
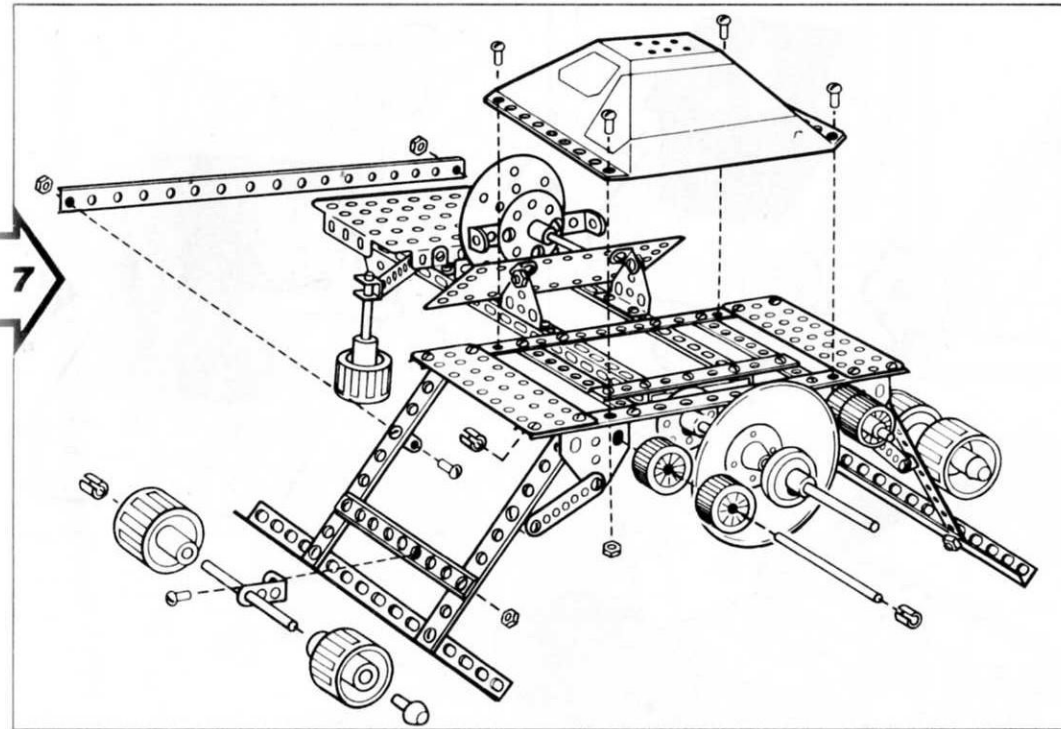


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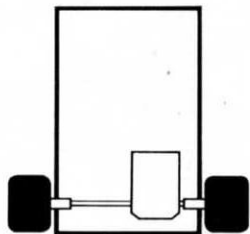




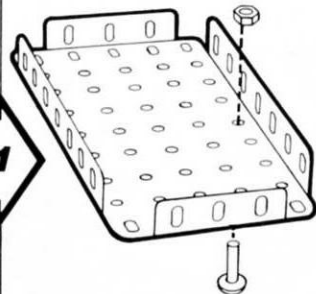




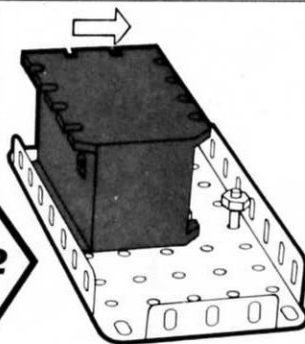
Suggested Motor position for sets 500-725



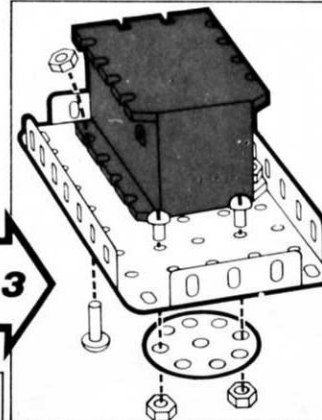
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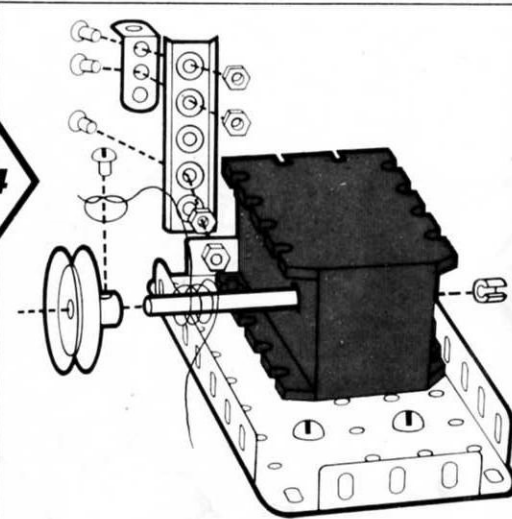
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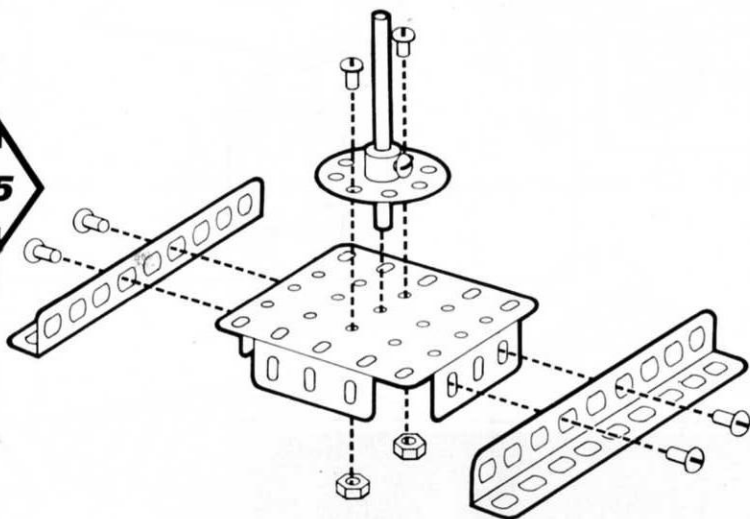
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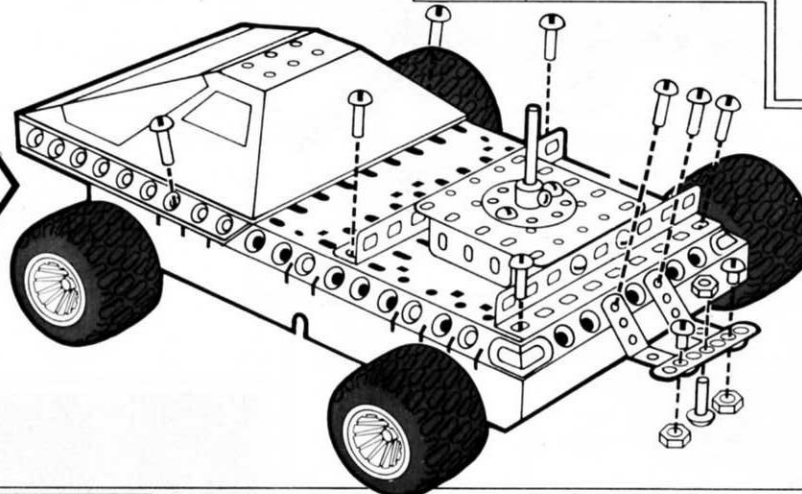
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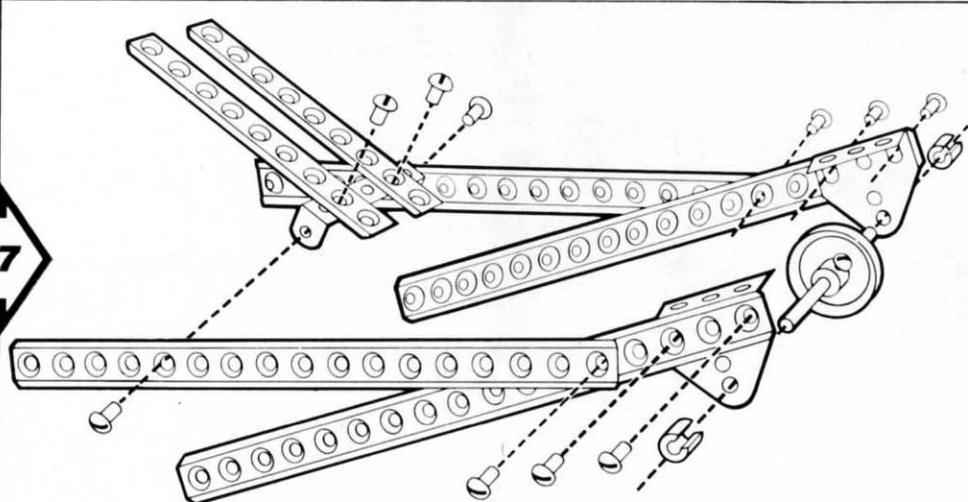
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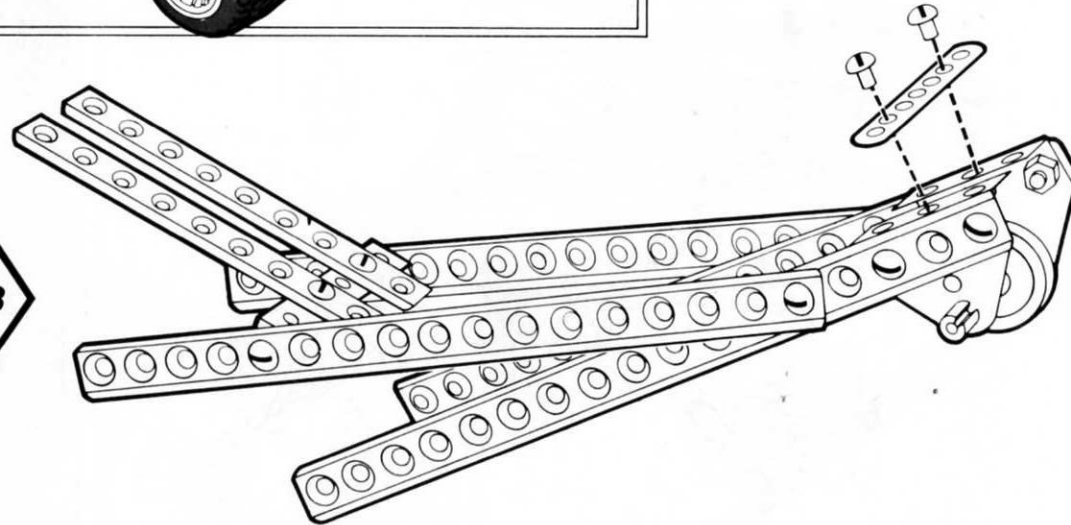
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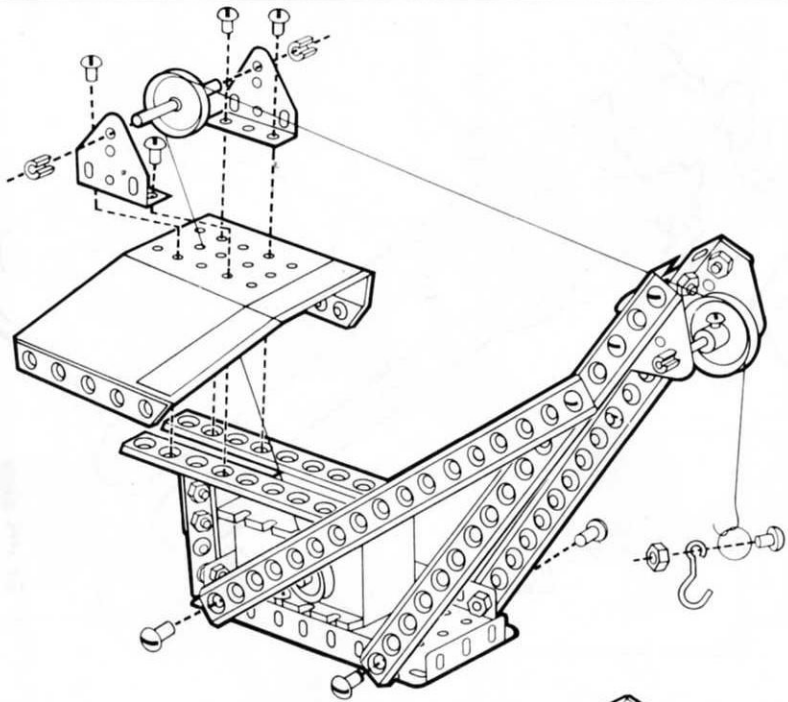
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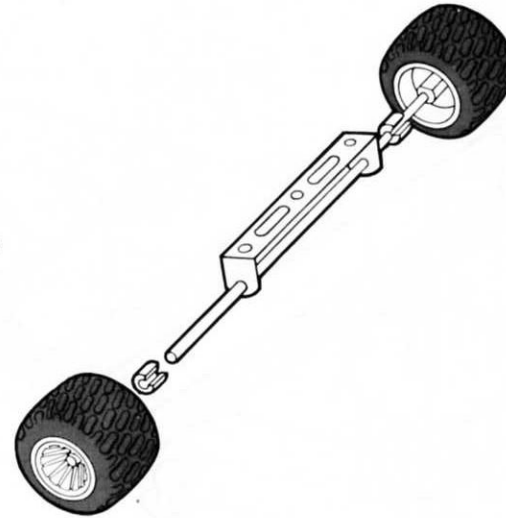
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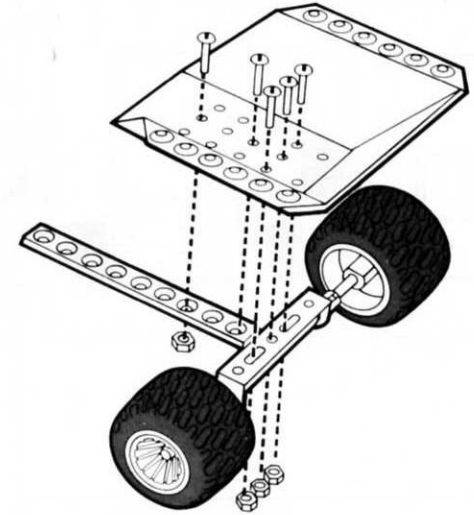
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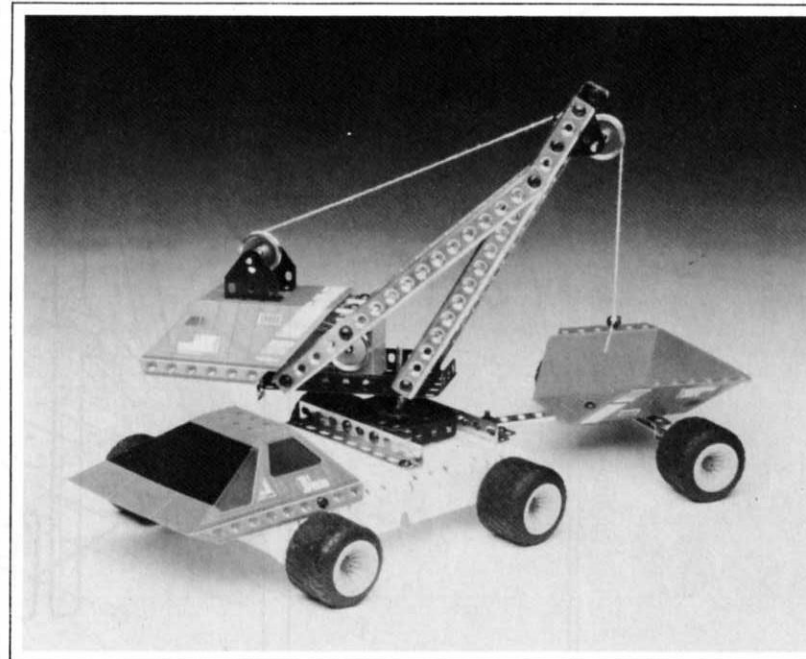
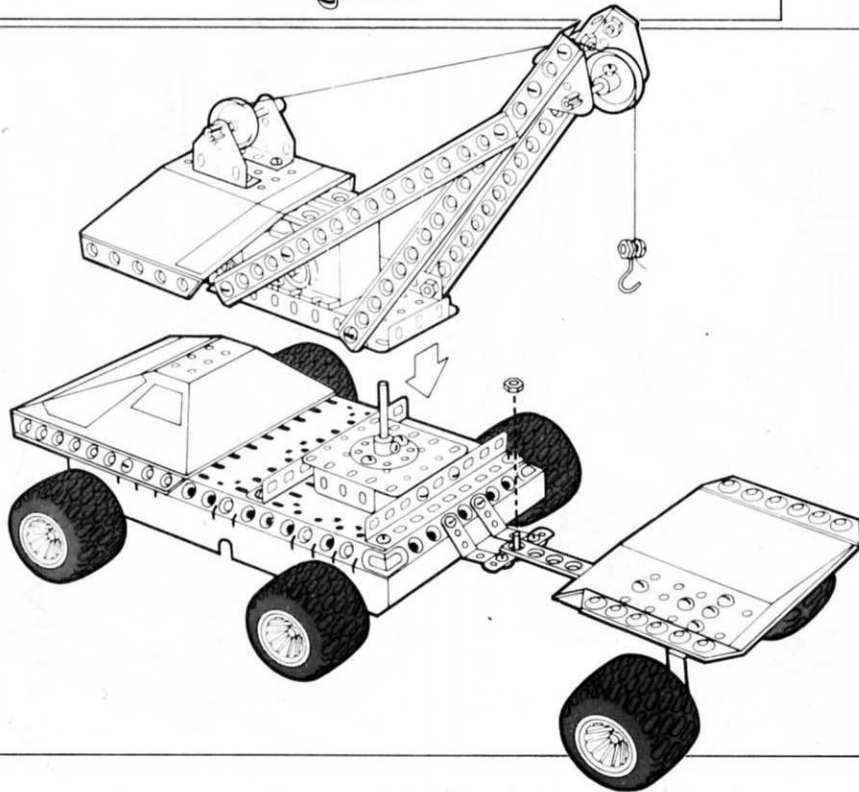
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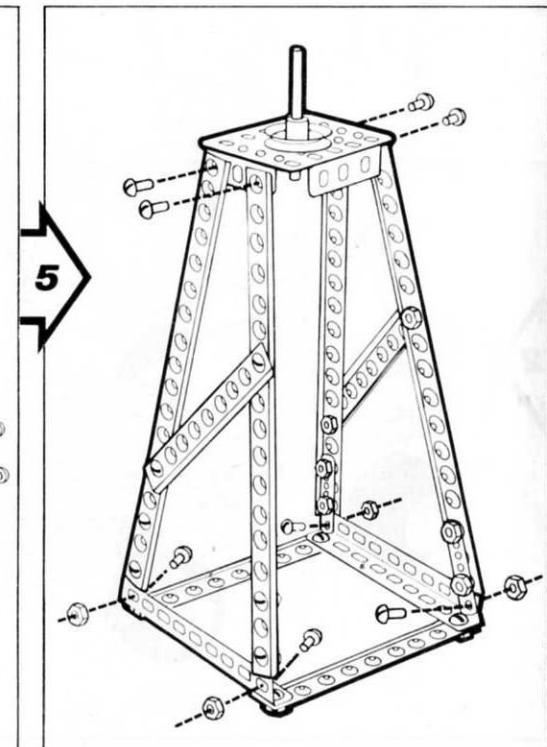
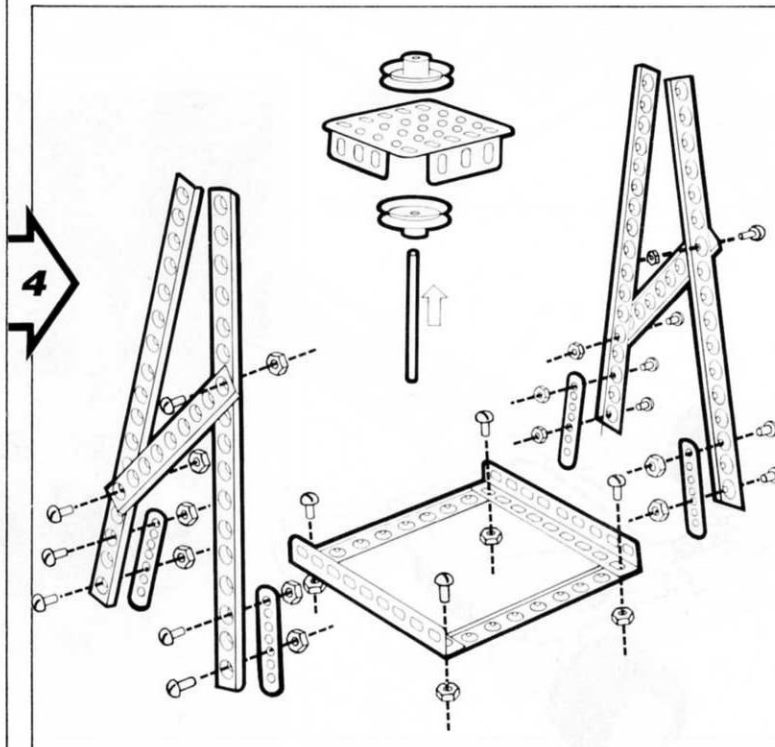
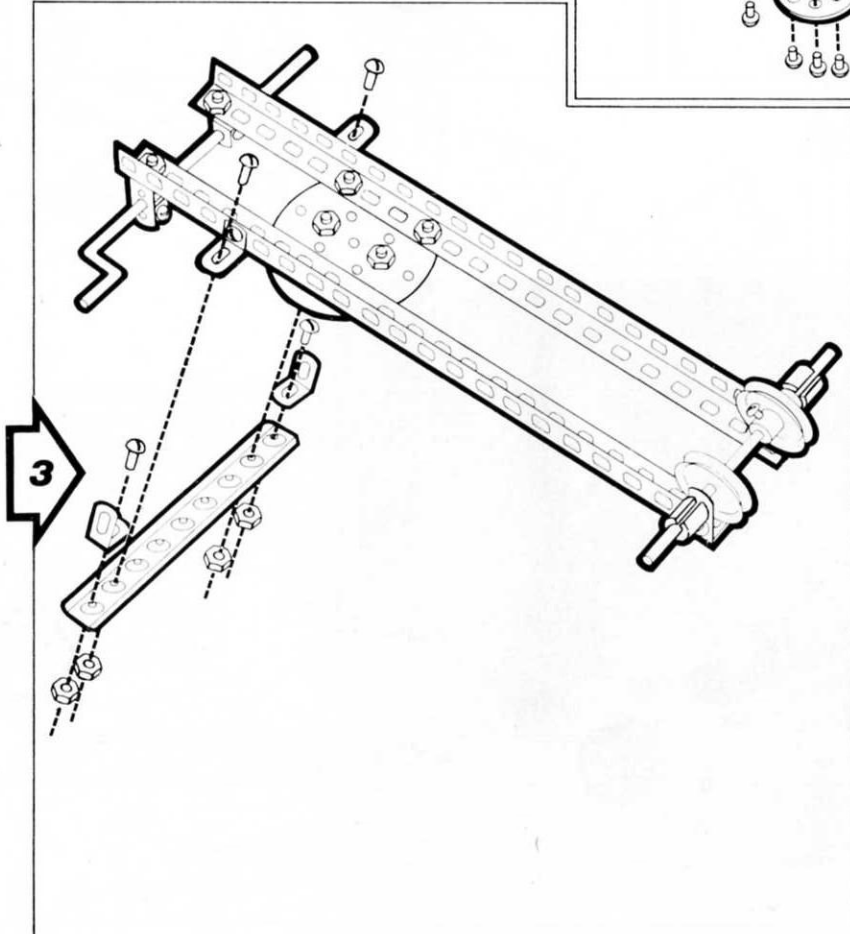
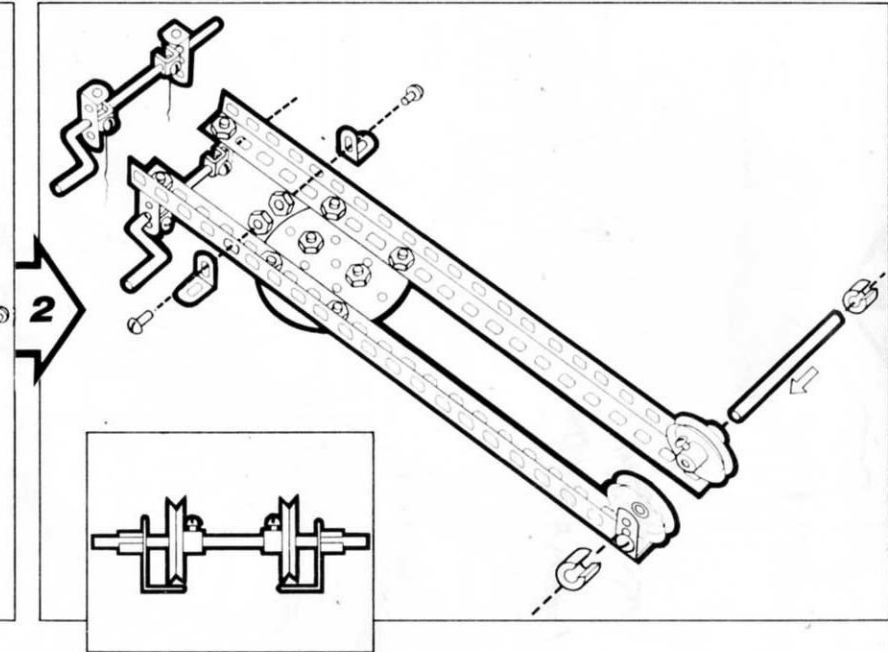
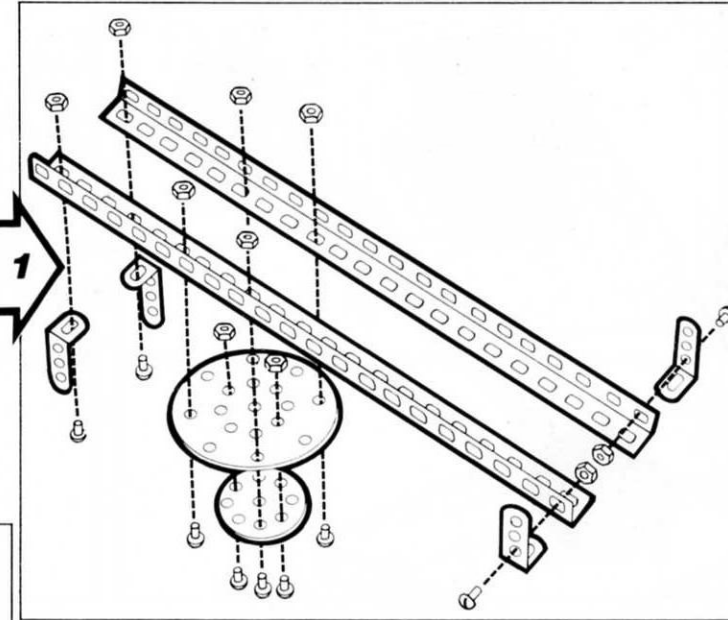
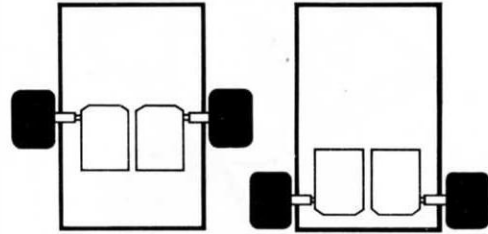
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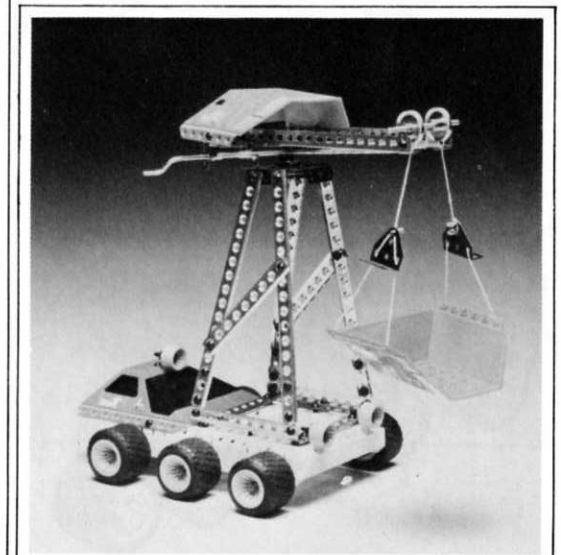
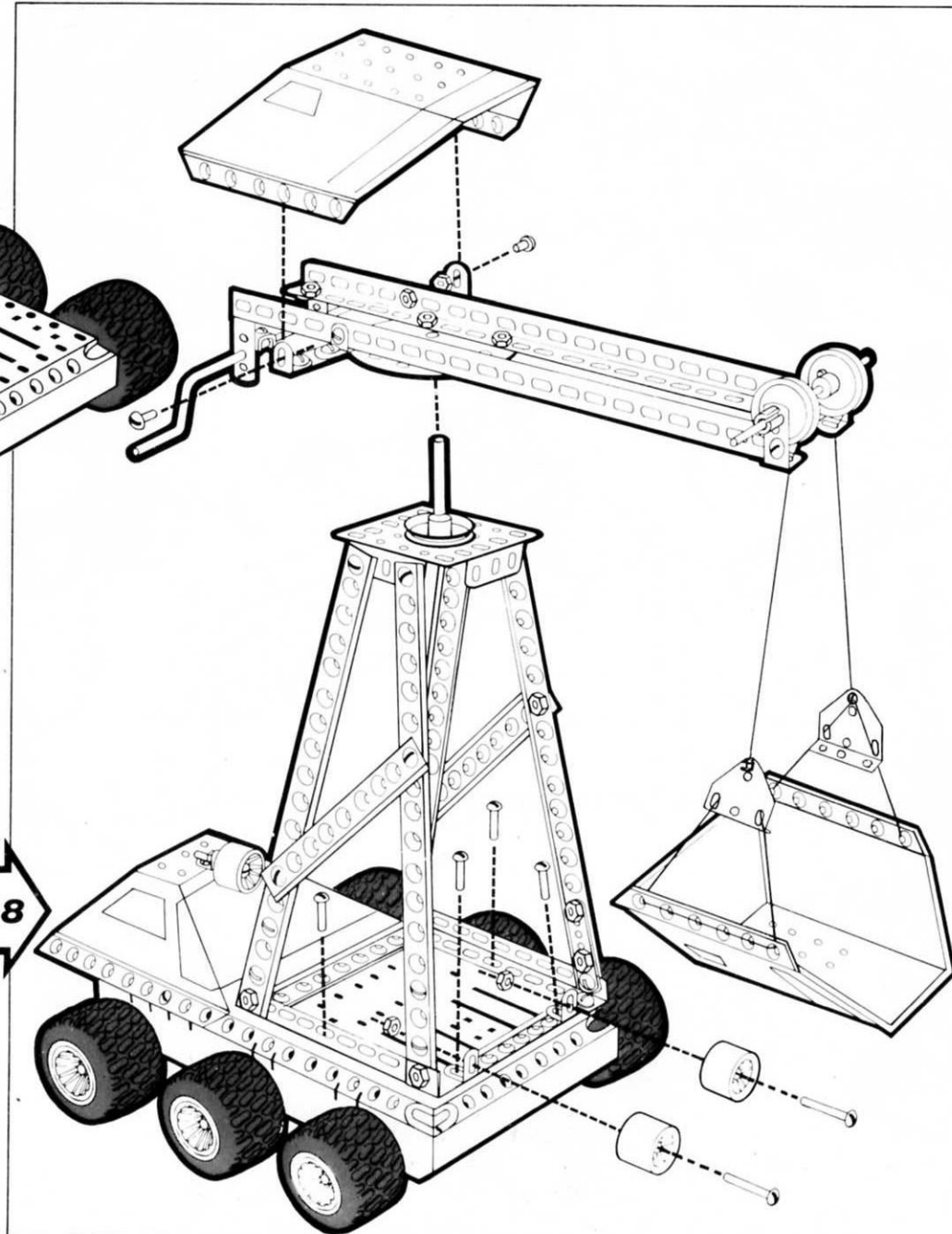
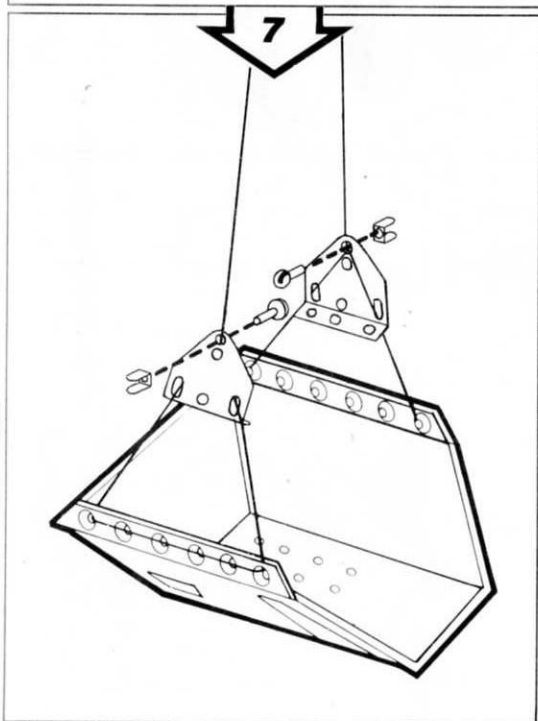
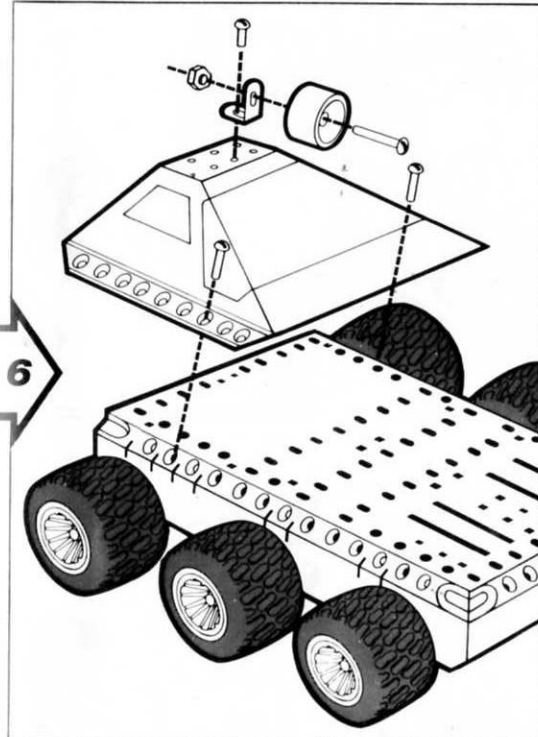


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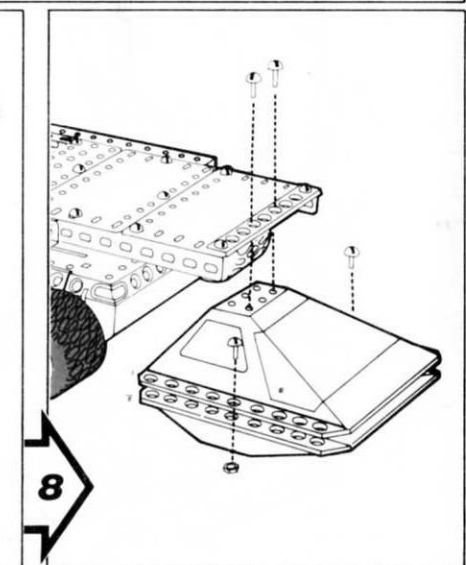
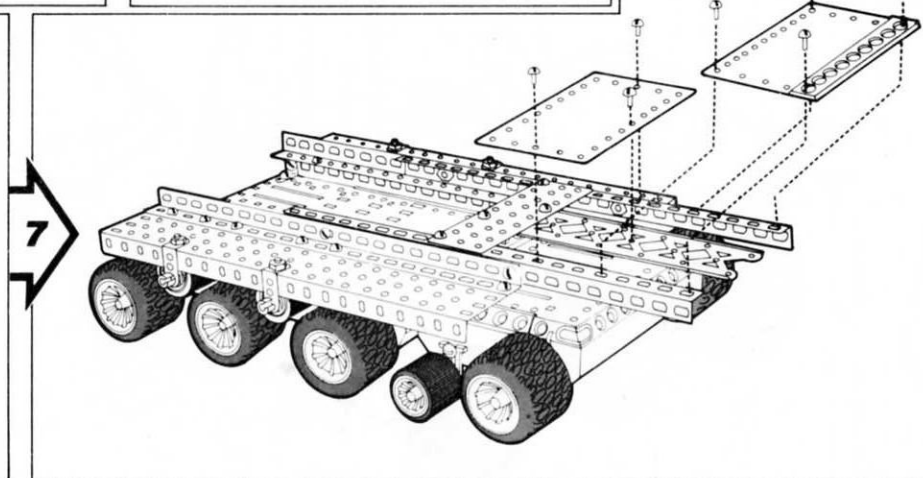
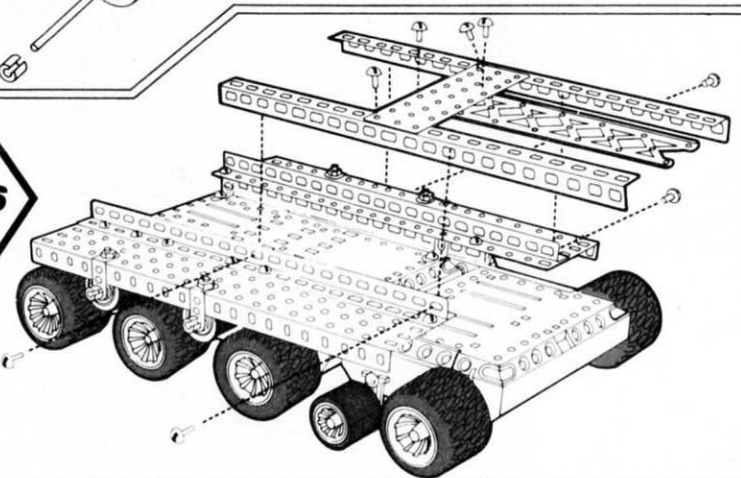
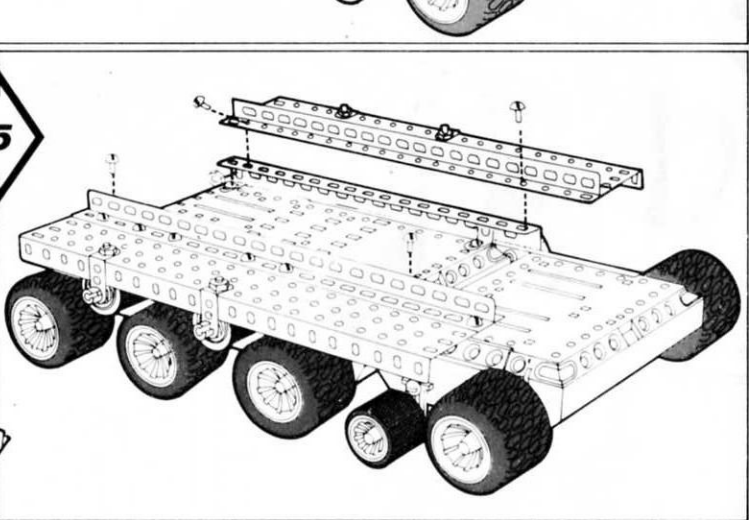
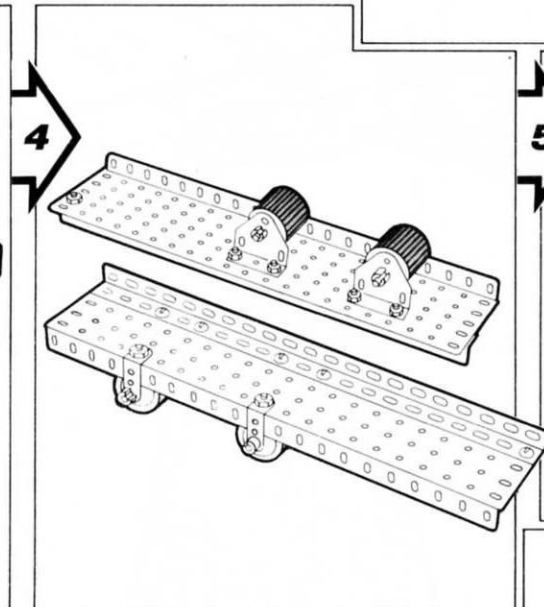
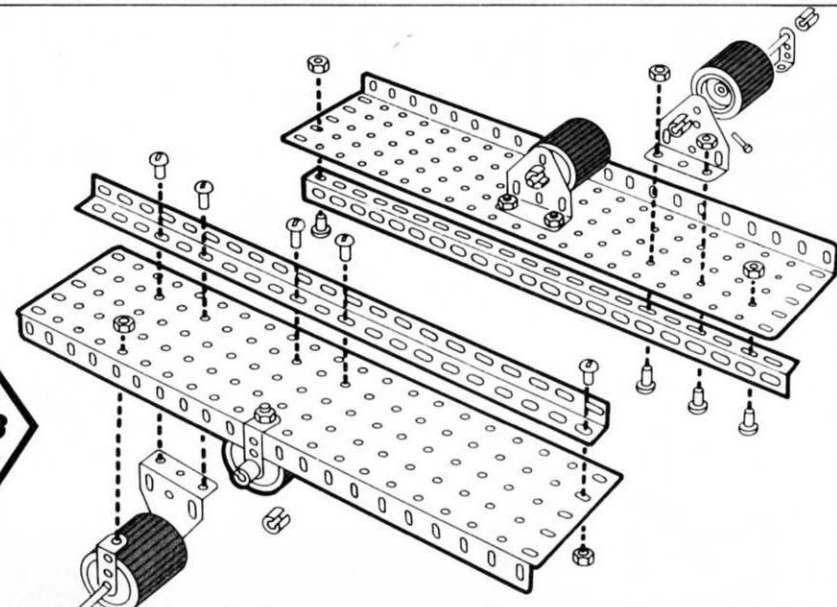
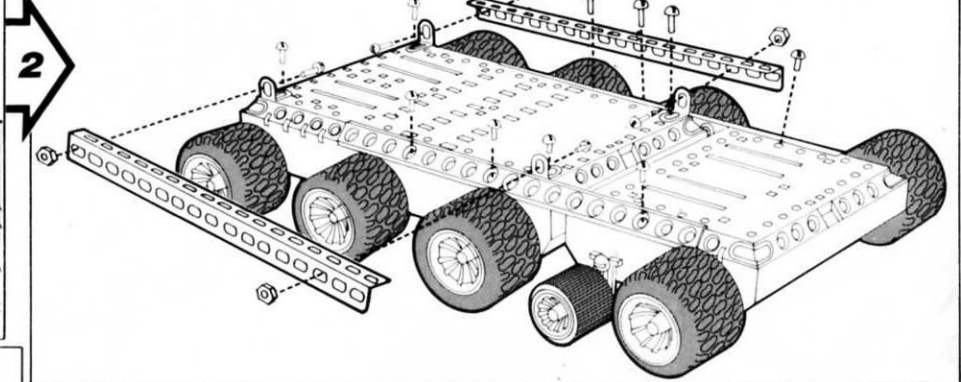
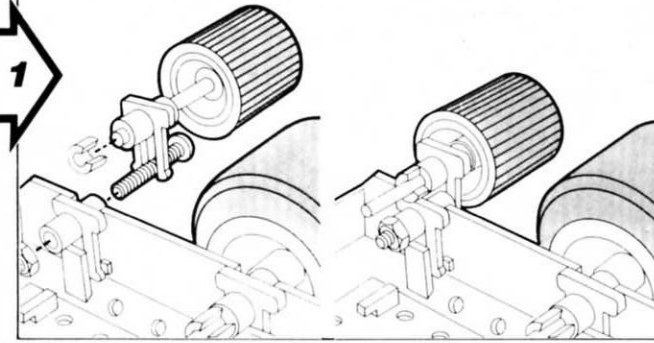
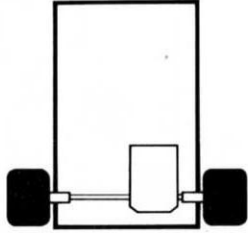


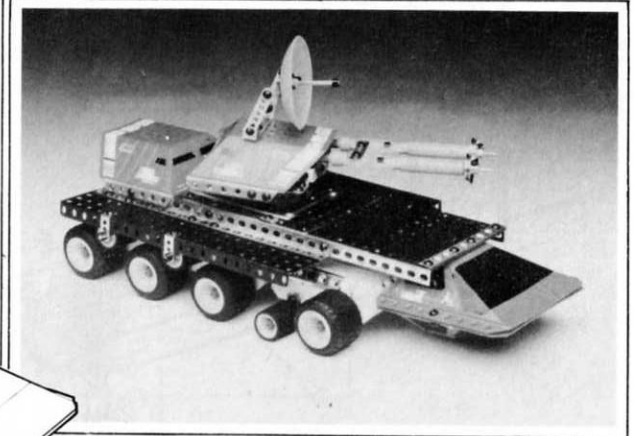
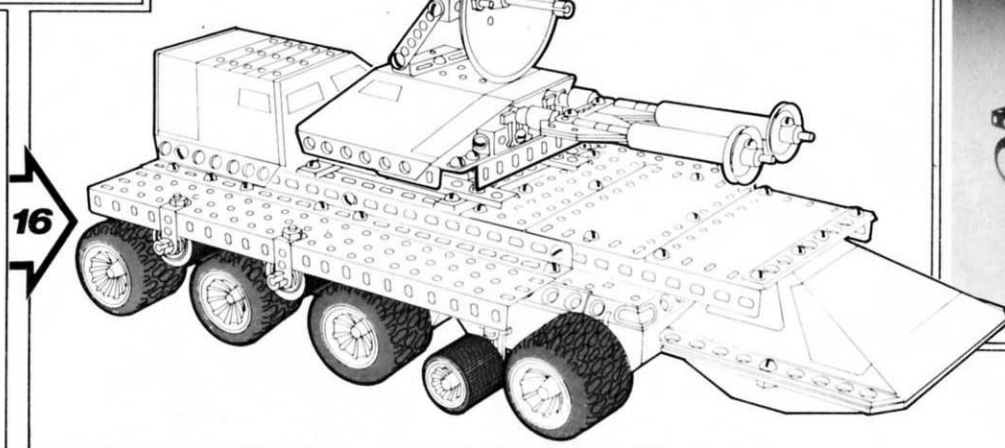
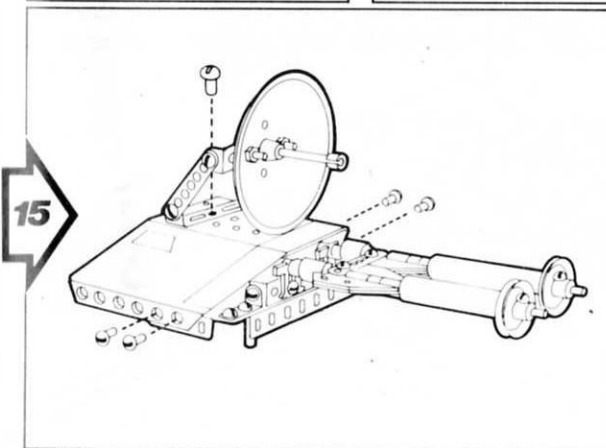
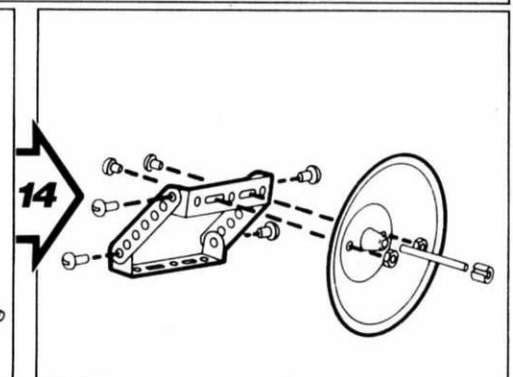
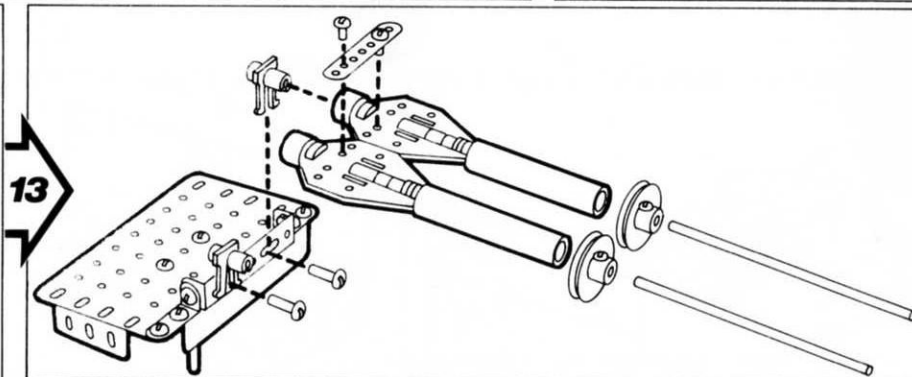
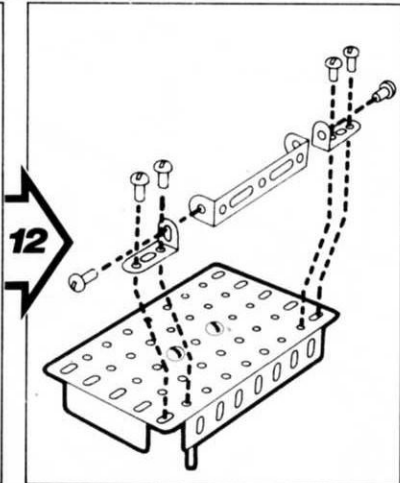
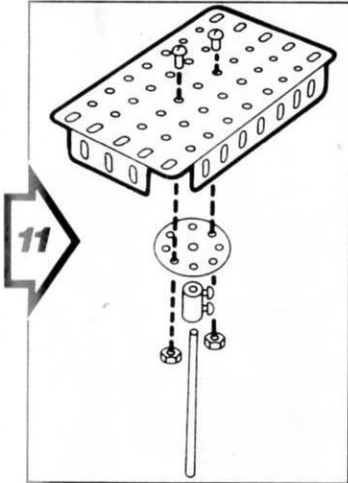
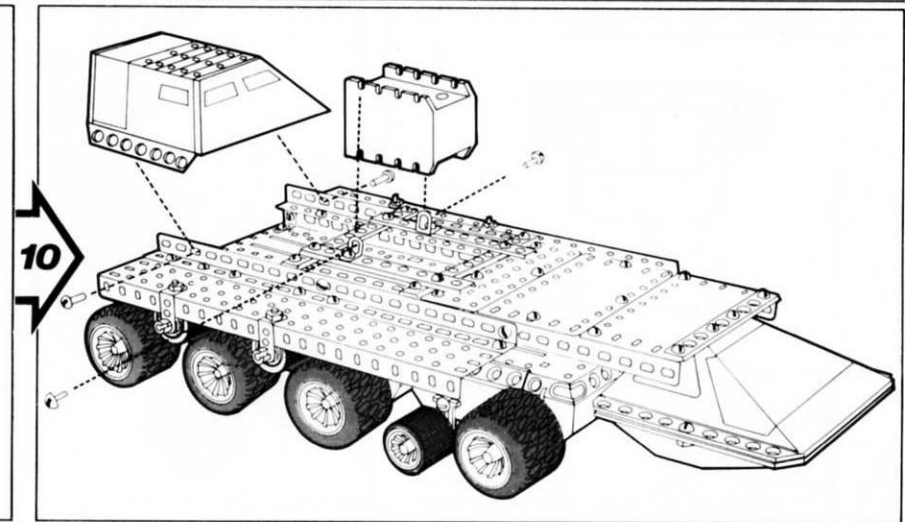
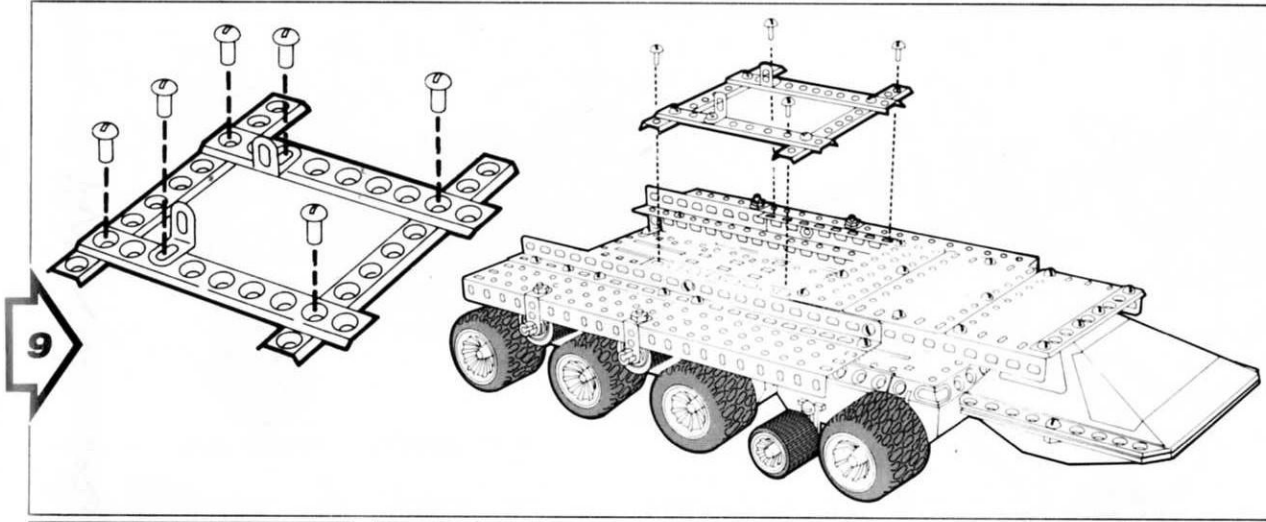
Suggested Motor position for sets 500-725



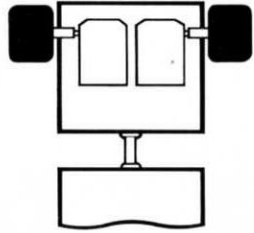


Suggested Motor position for set 725

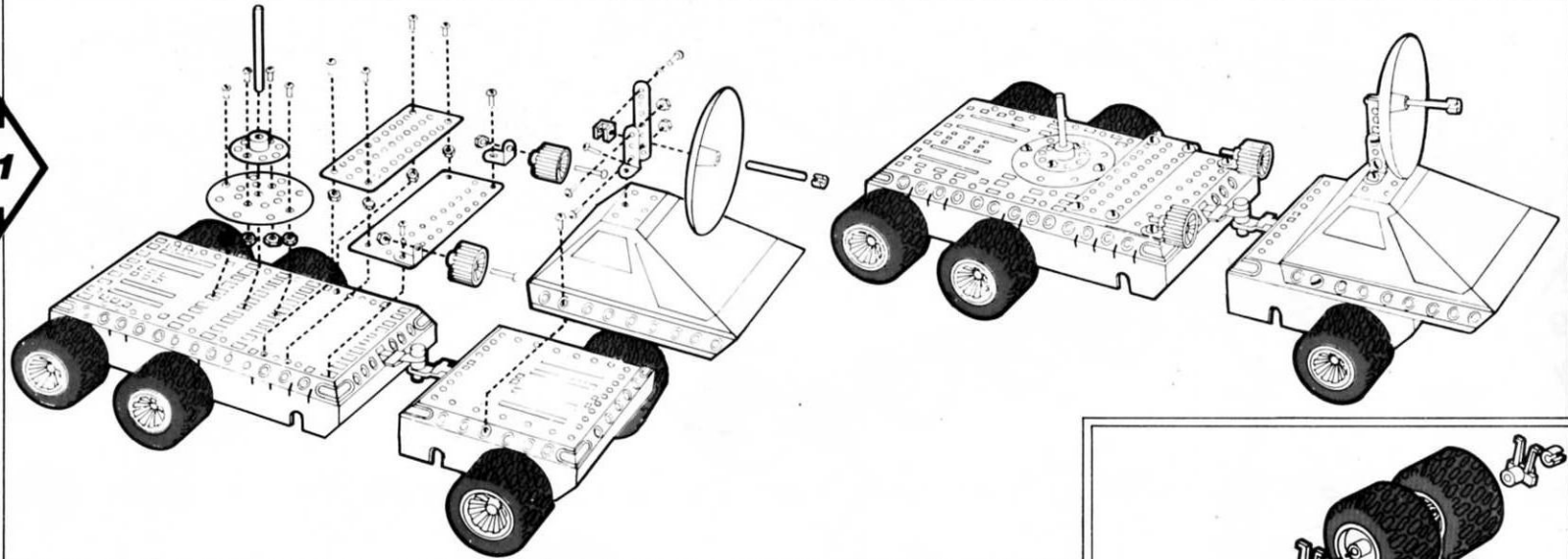




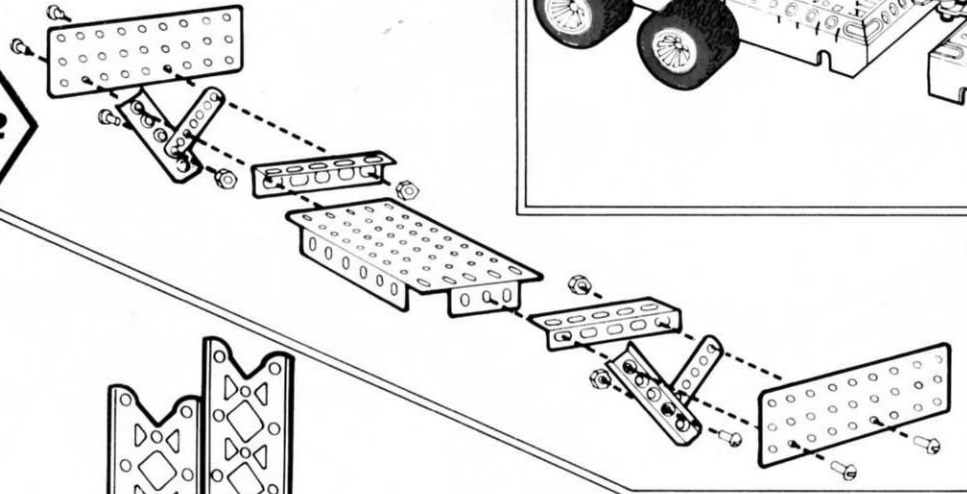
Suggested Motor position for set 725



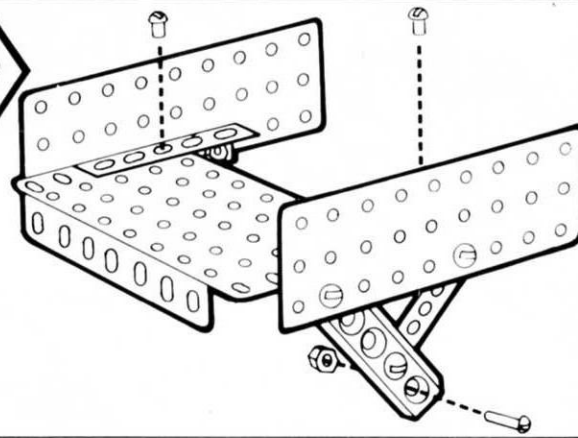
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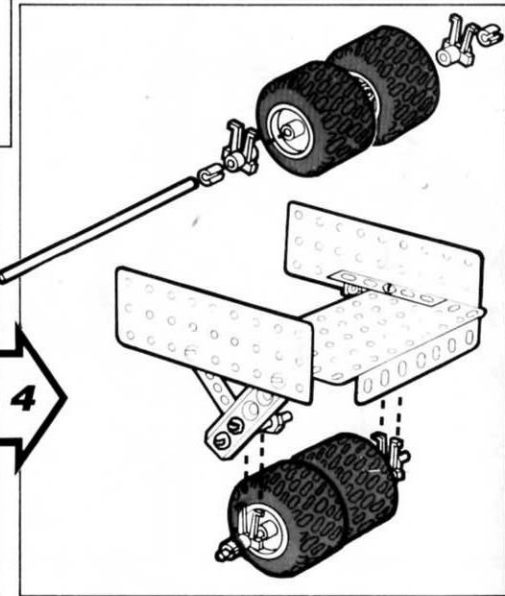
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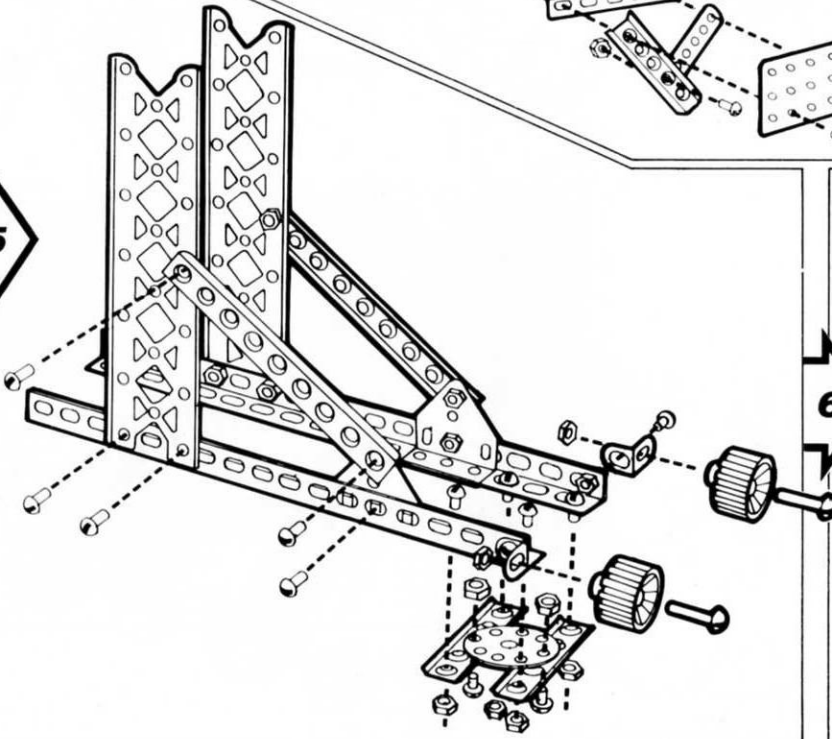
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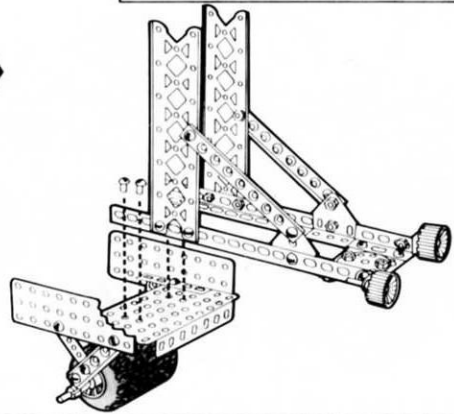
4



5



6



7

