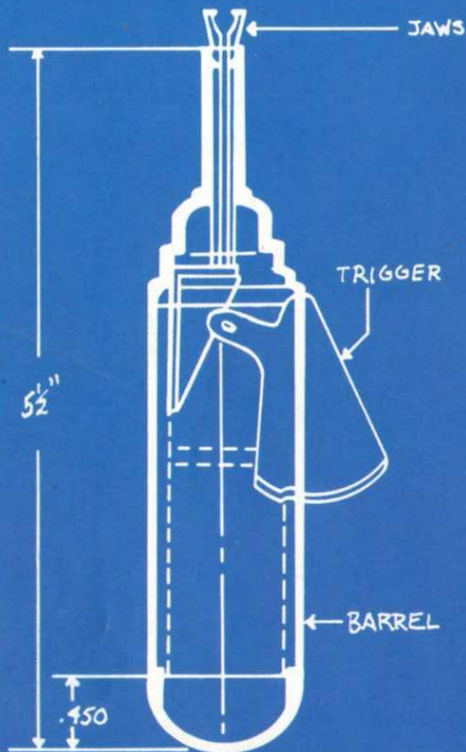


# BOLT 'N BUILD

## INSTRUCTIONS







### Connect-a-Tool

The barrel of the Connect-a-Tool fits snugly in the palm of your hand. Use your thumb to press the trigger which opens or closes the jaws that grip the black connector pieces.

### Your new Bolt n' Build Set

You are about to enter a new world of construction adventure with Bolt n' Build. Using the unique Connect-a-Tool, connectors (small black plastic bolts), and varied shaped pieces, you can make simple or complicated projects with surprisingly little effort. Bolt n' Build makes your ideas take shape quickly. All parts are re-usable.

### What to Do First

Learn how to use the Connect-a-Tool. Practise pressing and releasing the trigger to see just how it operates. A full explanation of how the tool works is given on the next three pages.

Remove all parts from the runners. The way to do this is to twist and then pull quickly. If you prefer you can use safety scissors to cut the parts from the runners.

In very little time you'll be the master of the Bolt n' Build construction system.

### Choosing Your Projects

Your set is named Mark 1 or Mark 2. You can create the constructions on any page labelled with the name of your set or on any of the pages before that. Start with projects shown in this booklet and then let your imagination run wild and design your own vehicles, buildings and equipment.

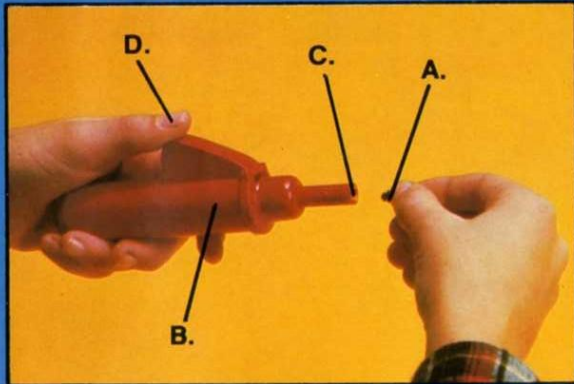


All Action games are carefully inspected, but if you find a part missing, or faulty, please write to Customer Service, Action Games and Toys Limited, Quebec Road, Henley-on-Thames, Oxon.

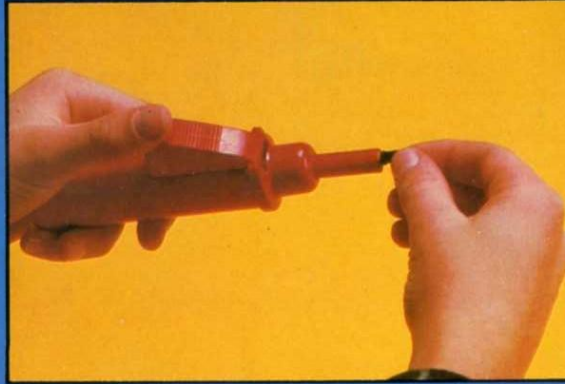


# How to Use Your Connect-a-Tool

## Gripping The Connector



Line up the pointed end of the connector (A) (small black plastic bolt) with white jaws (C) of the Connect-a-Tool (B). Make sure the trigger (D) is in the "Open" position.

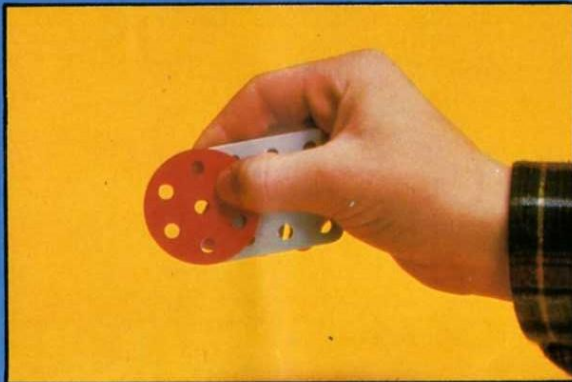


Insert the pointed portion of the connector in the jaws and push the trigger down to the "Grip" position (trigger will automatically catch).

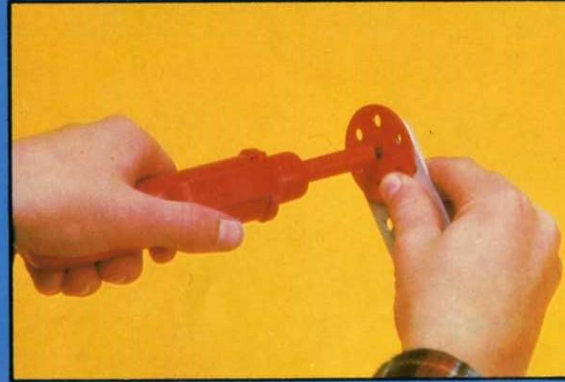


Now remove your thumb from the trigger. The Connect-a-Tool will grip the connector.

## Joining Pieces: Method One



Once your Connect-a-Tool is loaded, line up the holes of the pieces to be joined.

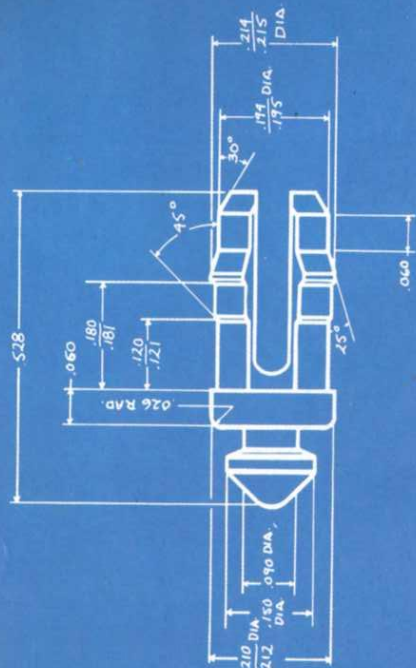


Firmly push the connector through the holes remembering to keep your thumb off the trigger.



The trigger will automatically pop up into the "Open" position once the connector is in place.





## Removing The Connector



Put the jaws over the pointed part of the connector.



Push the trigger down to the "Grip" position. The jaws will grip the connector and pull it out.



The connector will remain in the Connect-a-Tool. To release the connector push the trigger into the "Open" position.

## Joining Pieces: Method Two



Once your Connect-a-Tool is loaded, gently slide one of the pieces to be connected onto the tip of the connector. It will stay there.



Insert the connector with the piece on it into a hole on the second piece. Keeping your thumb off the trigger, push the Connect-a-Tool firmly against the second piece. The trigger will automatically pop up into the "Open" position and the parts will be joined.

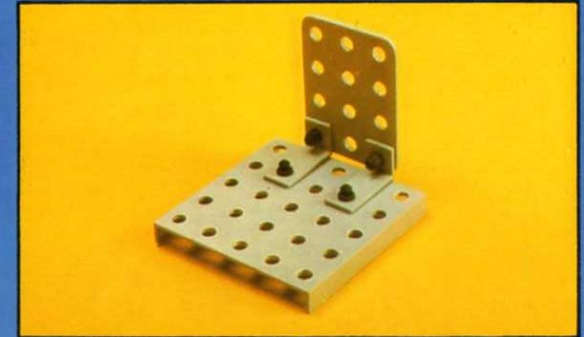




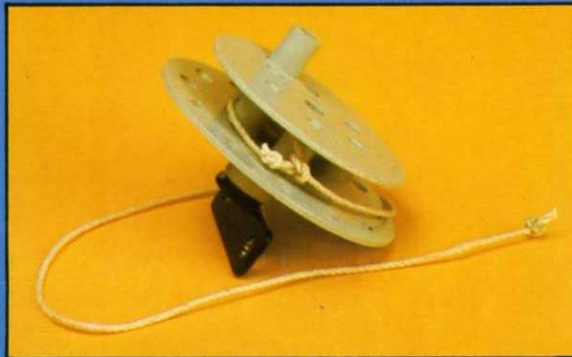
1



2

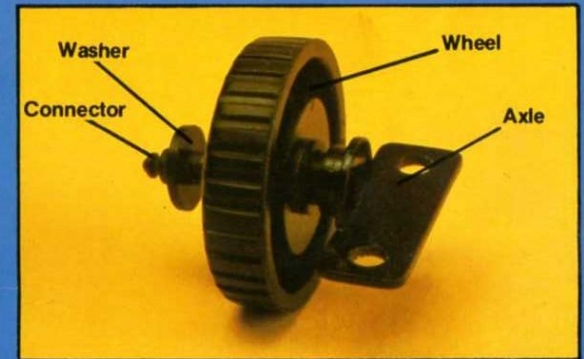


3

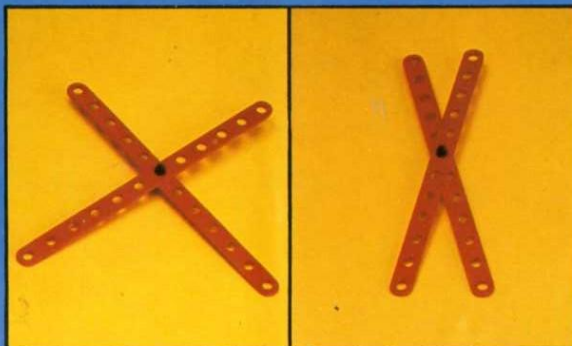


4

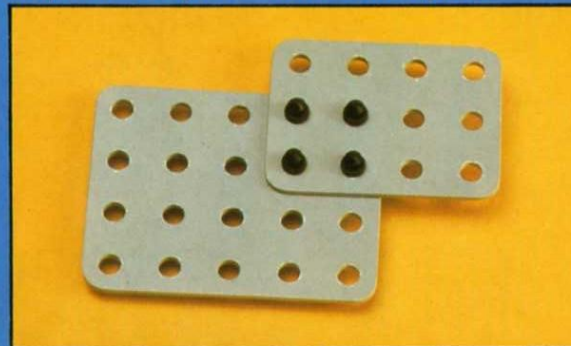
- ## Assembly Tips
1. Store the connectors in the parts box.
  2. When constructing, place connectors in the holes on the top of the parts box so they can be picked up by the Connect-a-Tool.
  3. Use small right angle pieces for right angled constructions.
  4. A lift or pull system can be constructed on an axle.
  5. To fit wheels. Place a wheel on an axle, next put on a washer and fit a connector through the washer into the axle.
  6. Any construction joined by a single connector will pivot.
  7. Use several connectors for strength.
  8. Separate the pieces for a looser pivot.



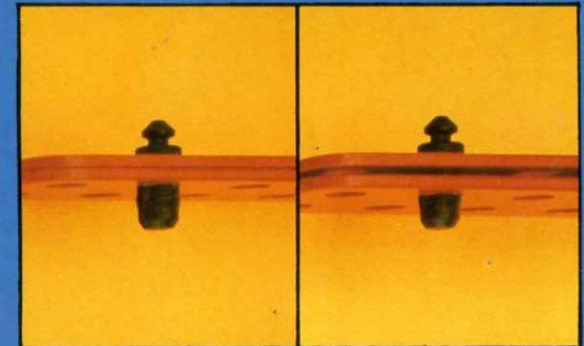
5



6



7



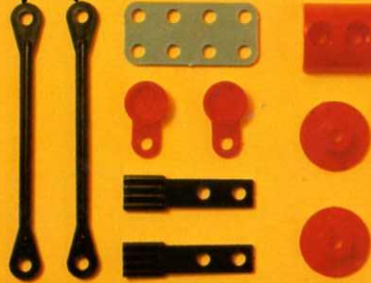
8



# MARK 1

Start Here First

3 1/2" (90mm)



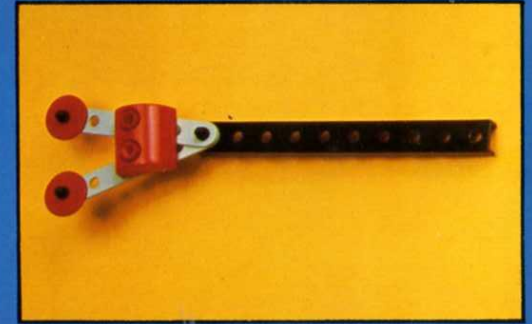
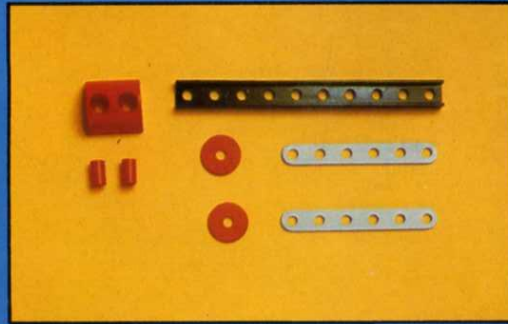
Boy



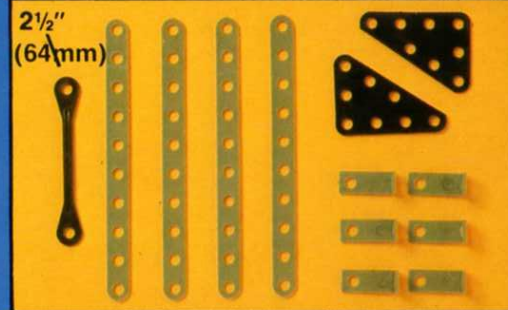
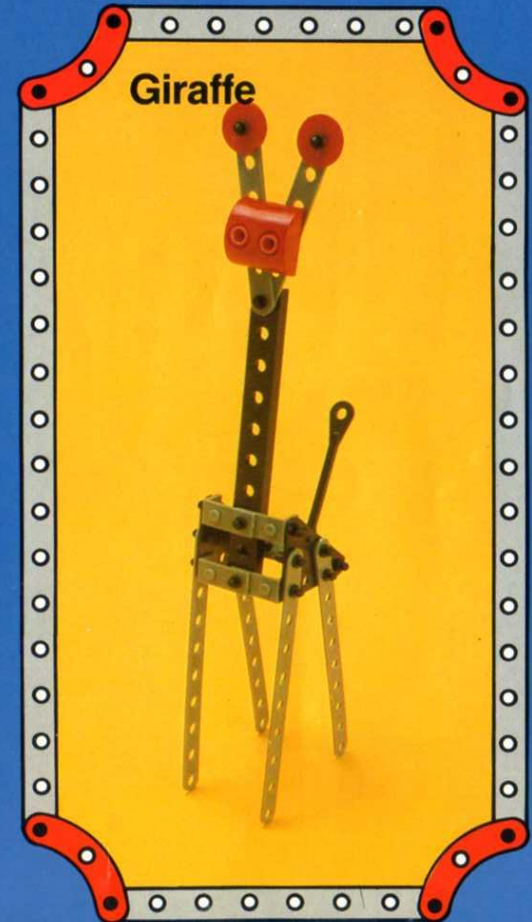
FULL R. (2)

5.900

.058/.060  
REF.



Giraffe



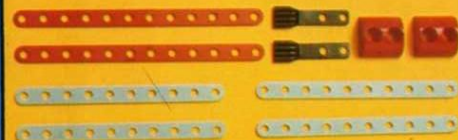
2 1/2" (64mm)

Start Here First

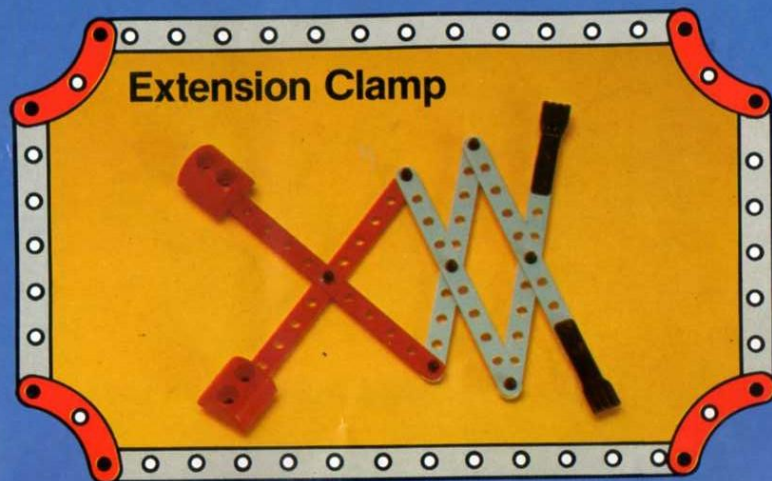


# MARK 1

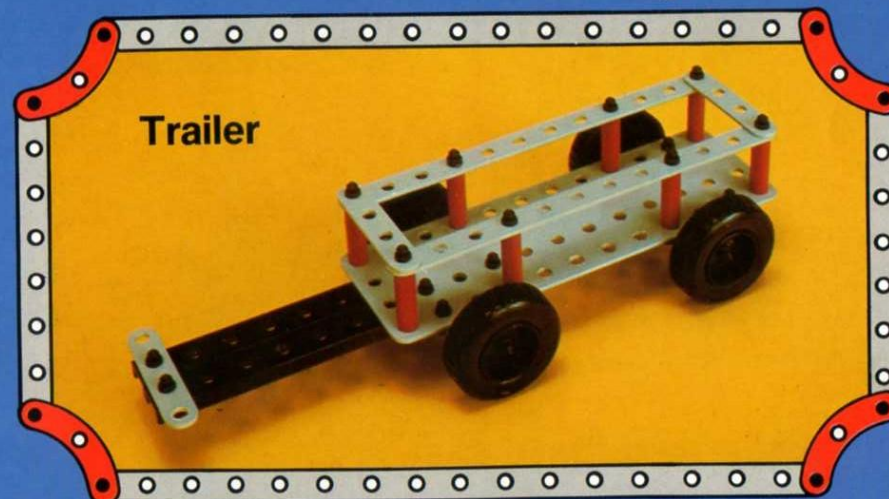
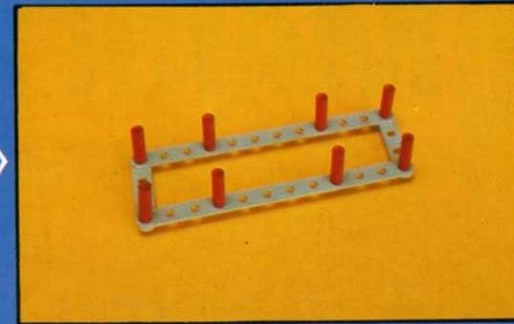
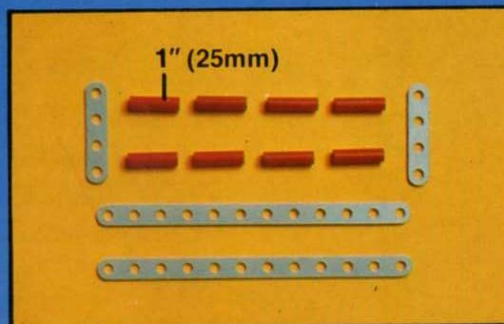
Start Here First



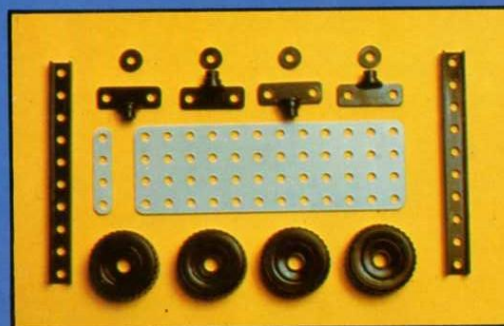
Extension Clamp Extended



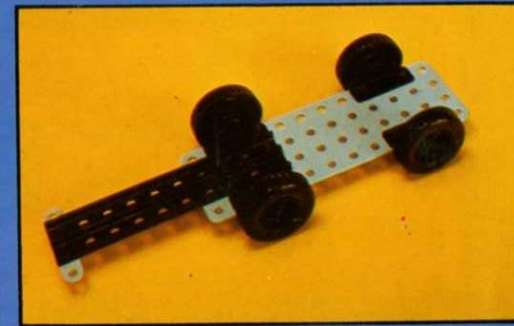
Extension Clamp



Trailer



Start Here First

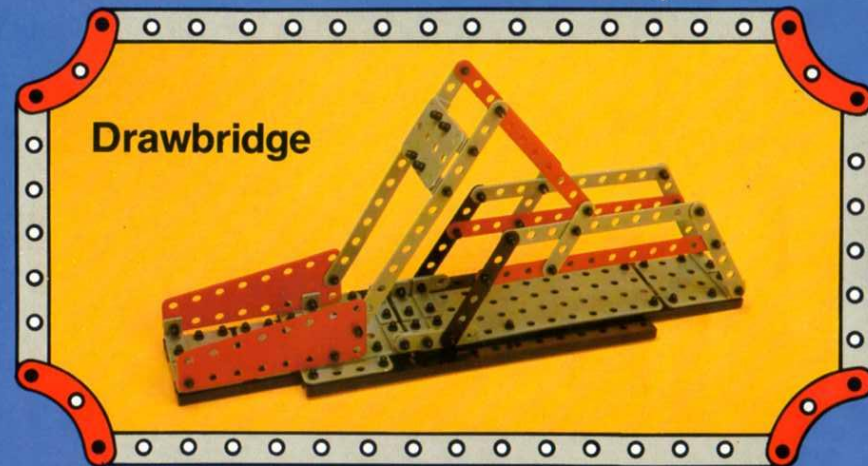
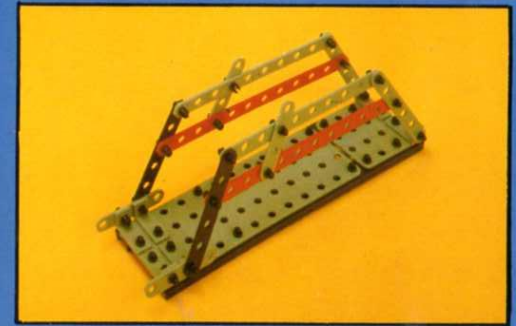
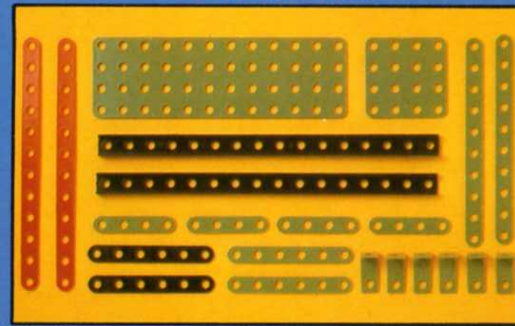


Note: See assembly tips for wheel assembly.

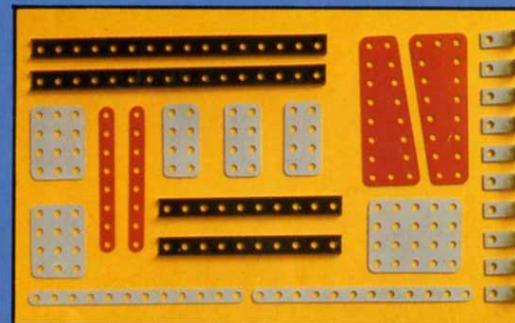


# MARK 1

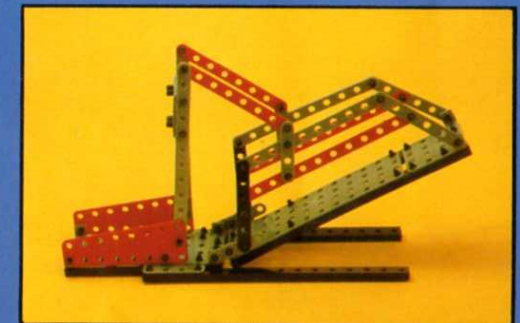
meccanoindex.co.uk  
Start Here First



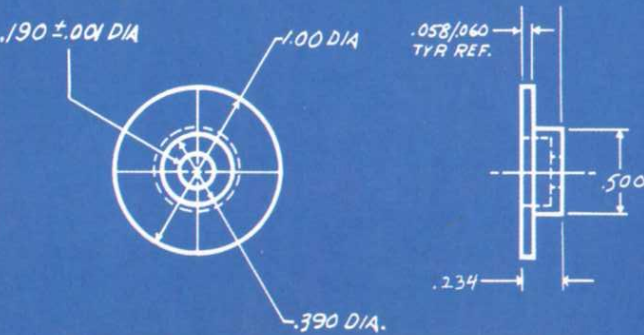
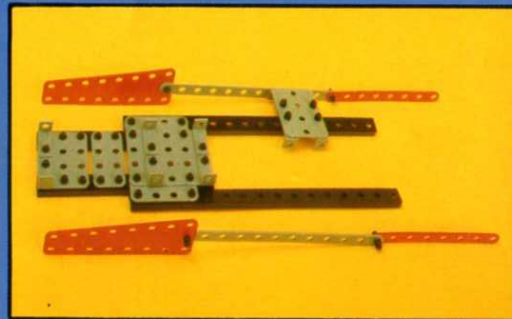
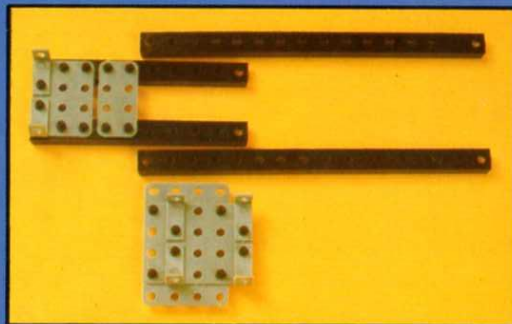
Drawbridge



Start Here Next

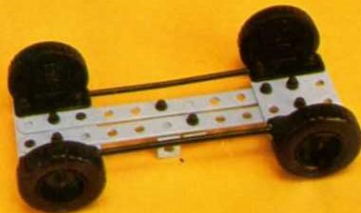


Raised Drawbridge





A collection of various mechanical components including pulleys, brackets, and fasteners. Dimensions 2" (50mm) and 3 1/2" (90mm) are indicated for specific parts.



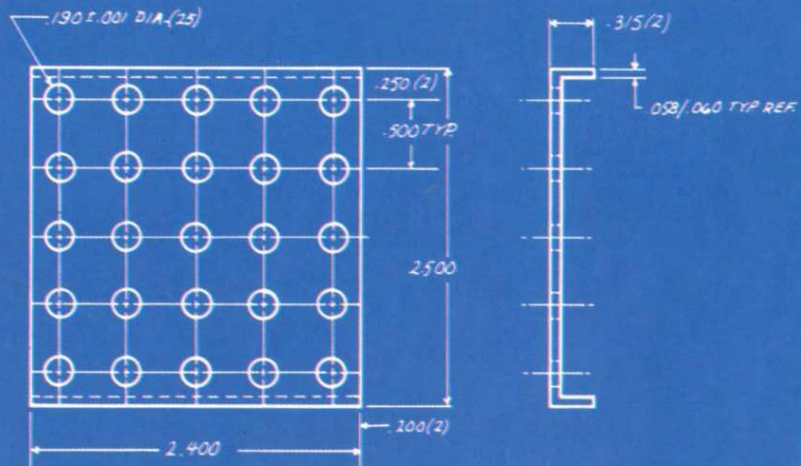
## Racer

## Chassis Subassembly

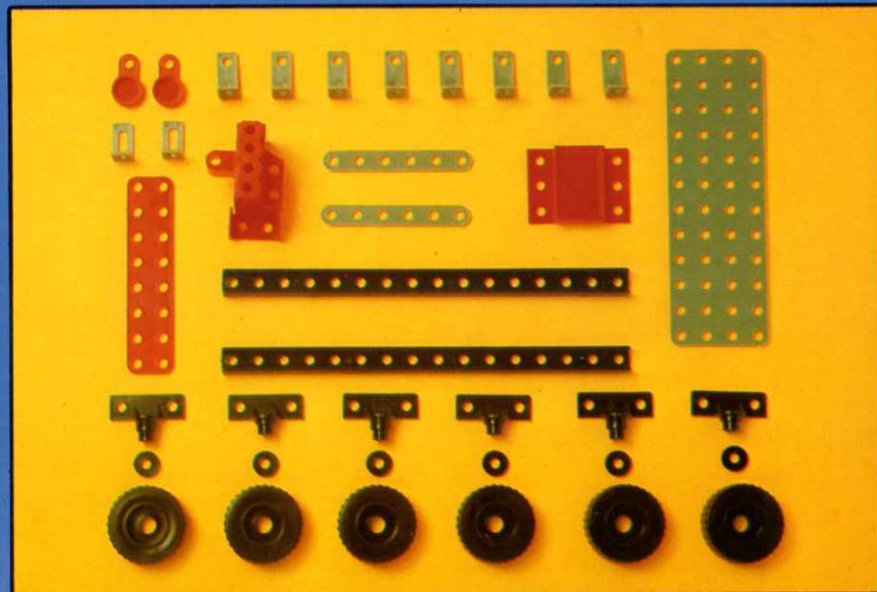
**Note: See assembly tips for wheel assembly.**



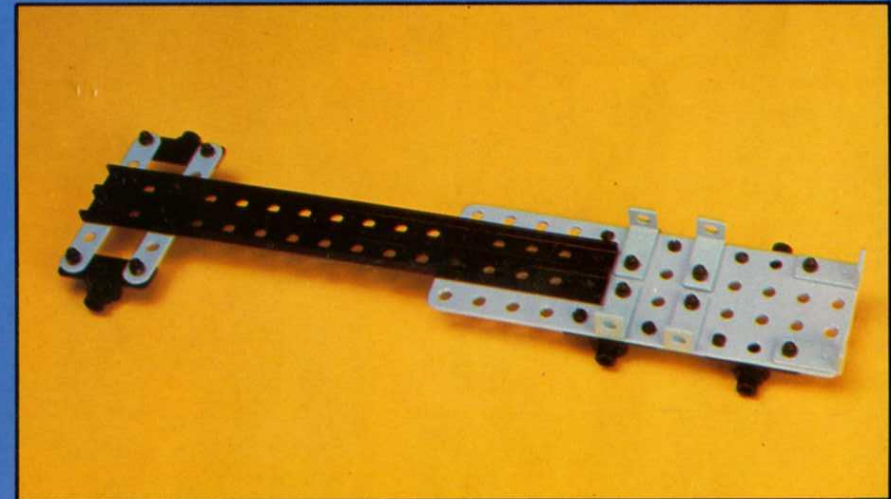
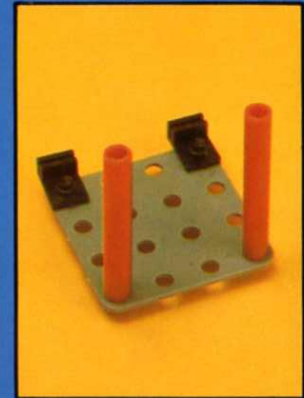
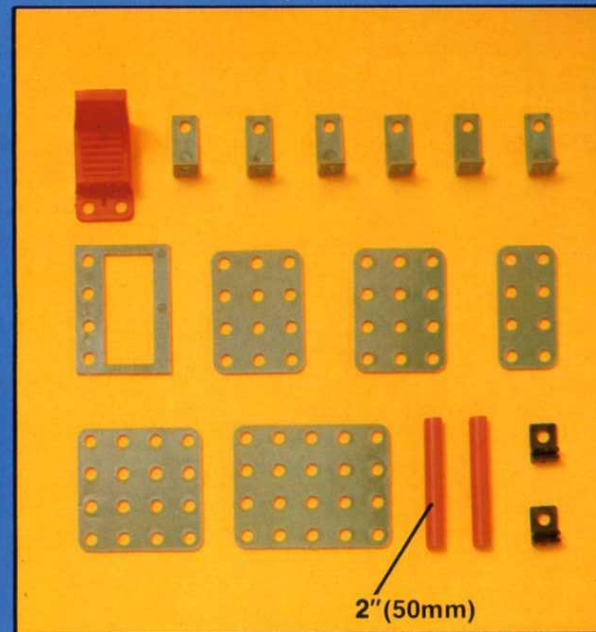
# MARK 1



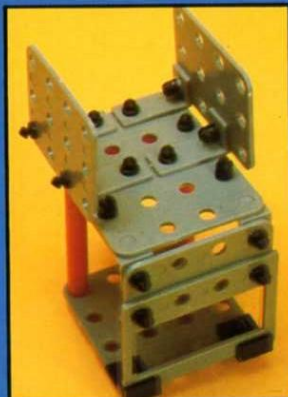
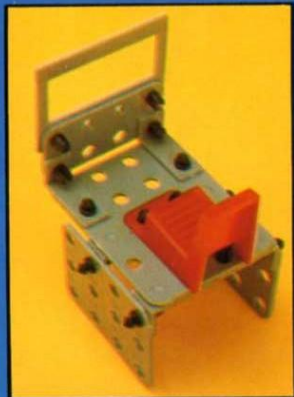
## Chassis Pieces



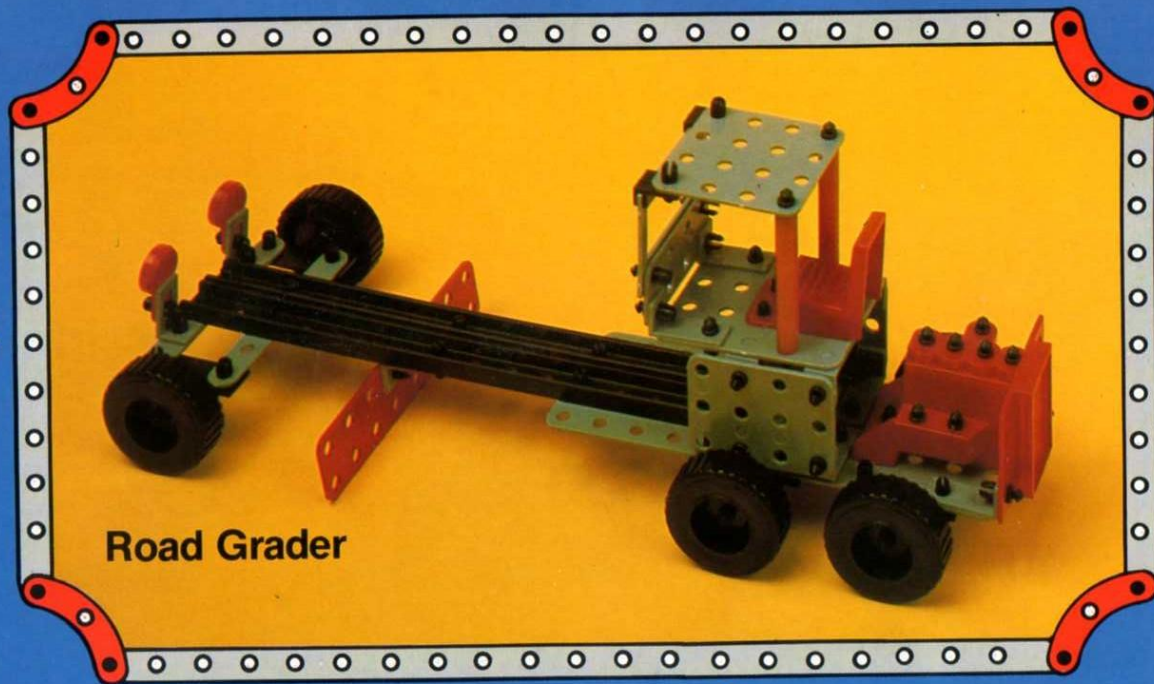
## Body Pieces



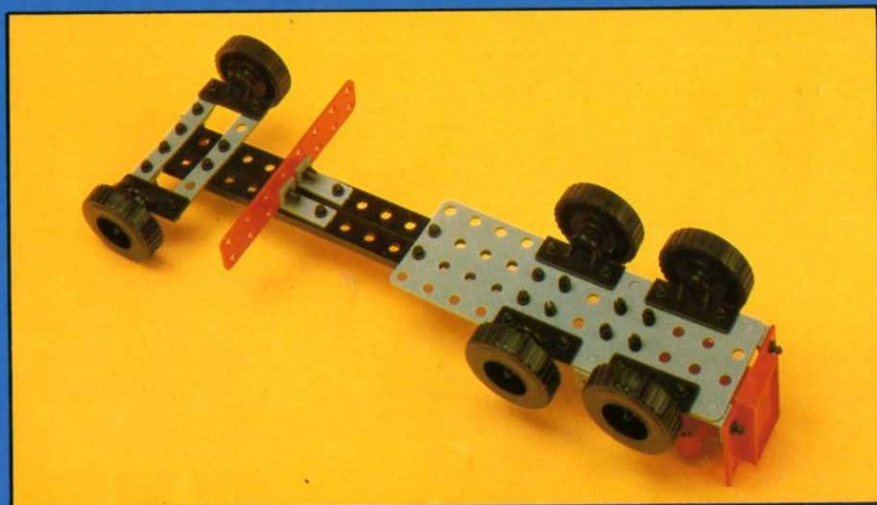




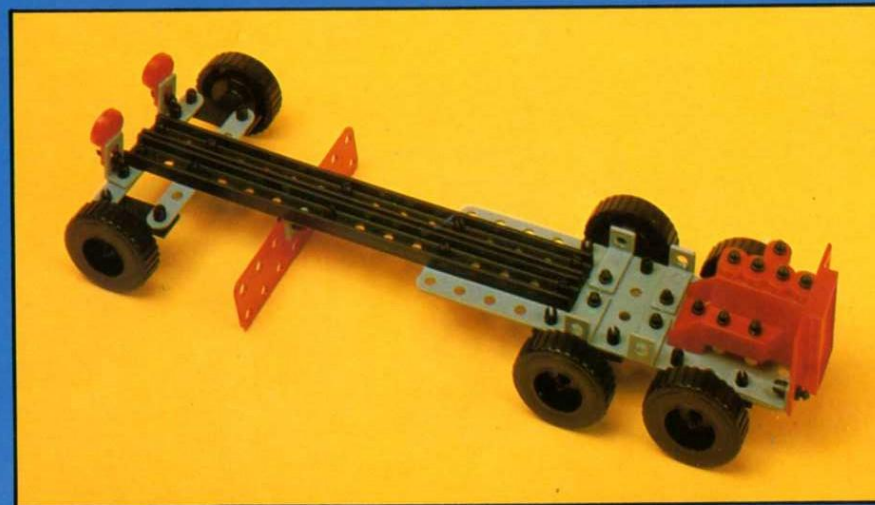
Body Subassembly



Road Grader



Chassis Bottom View

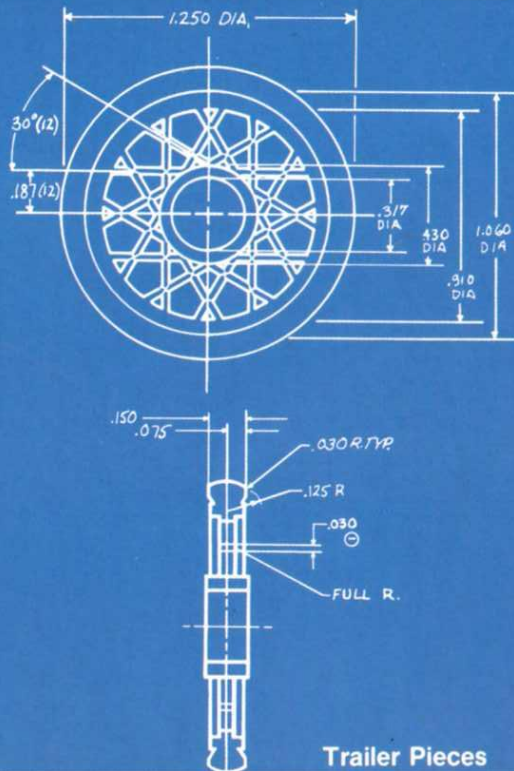


Chassis Subassembly

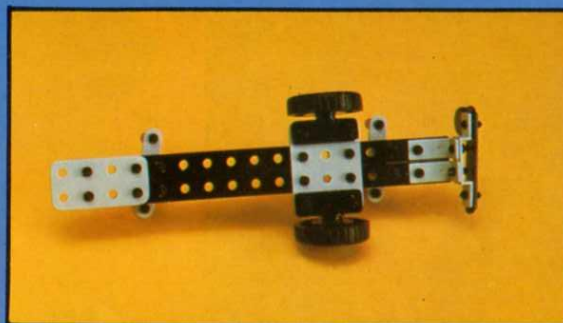
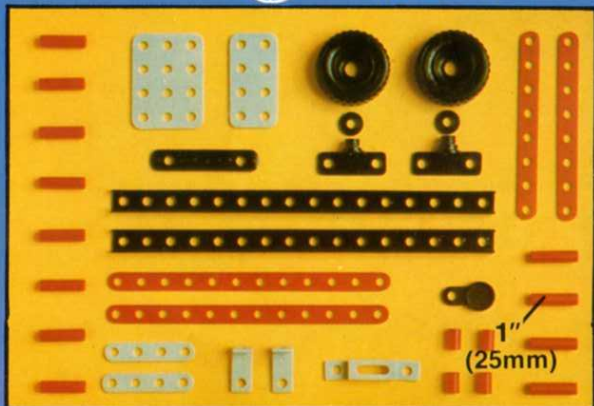
Note: See assembly tips for wheel assembly.



# MARK 2



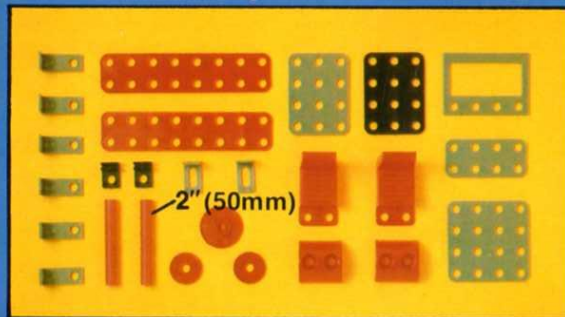
Trailer Pieces



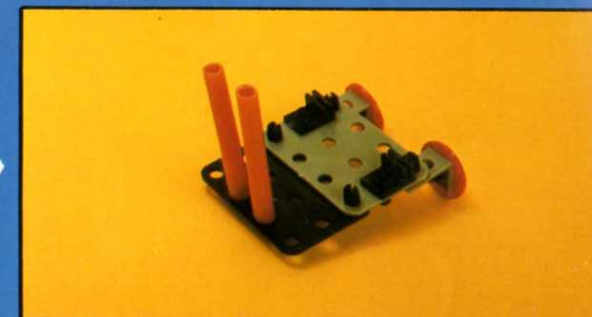
Trailer Bottom View



Trailer Subassembly

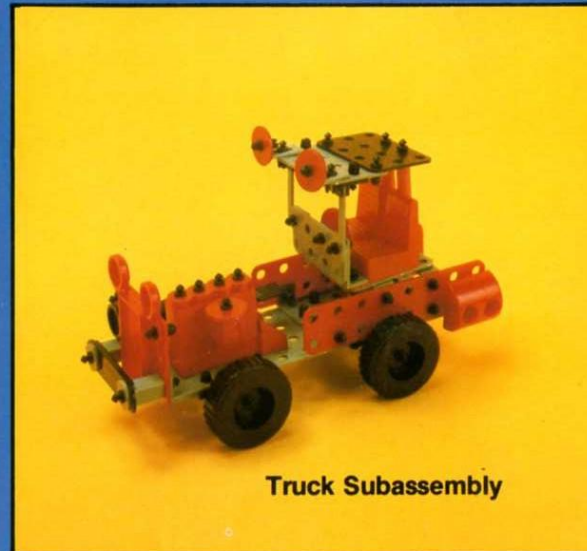
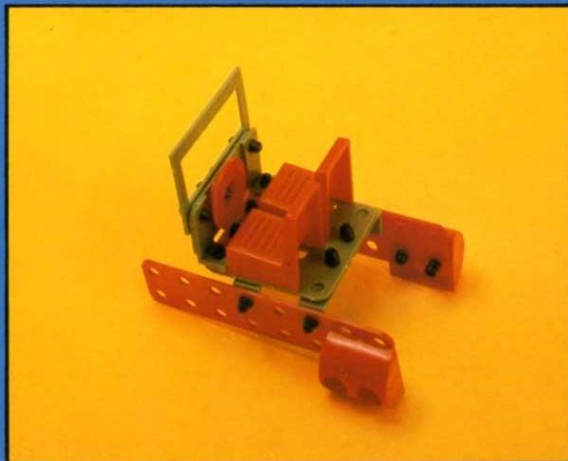


Body Pieces

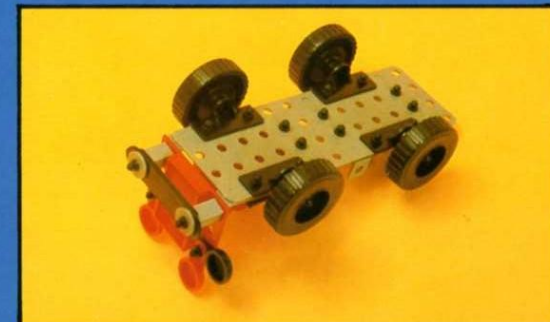
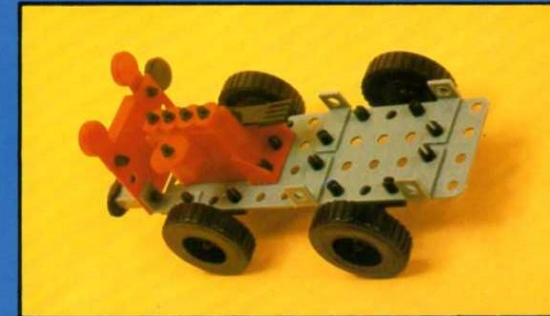


Note: See assembly tips for wheel assembly.

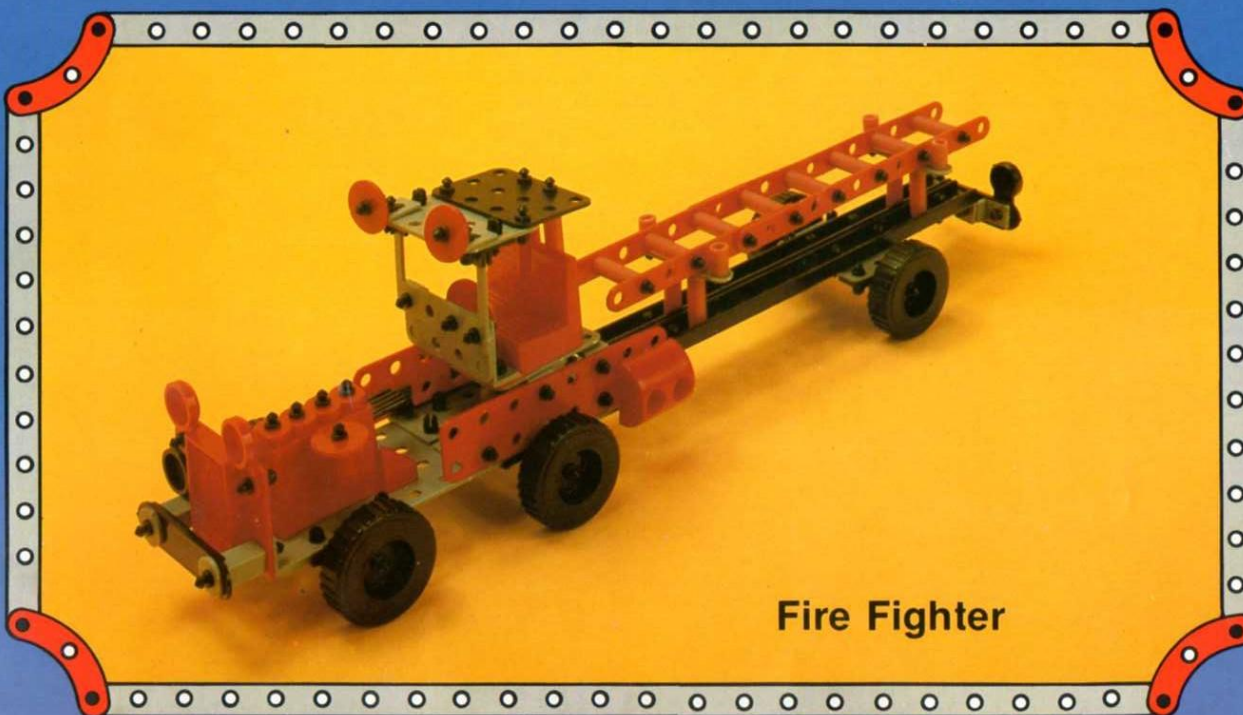




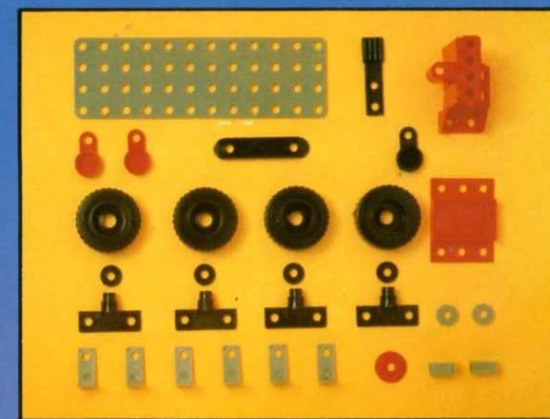
Truck Subassembly



Chassis Bottom View



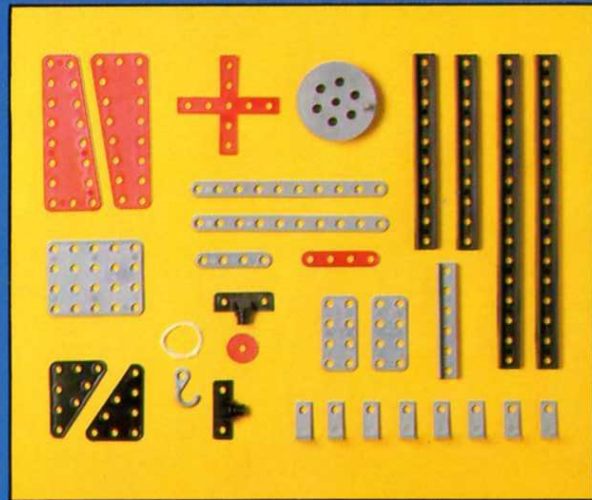
Fire Fighter



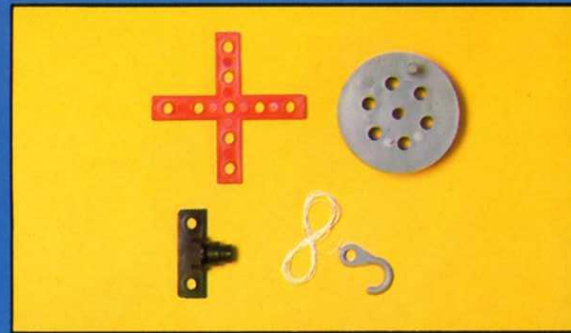
Chassis Pieces



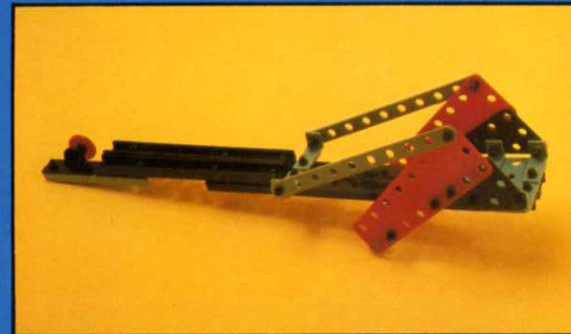
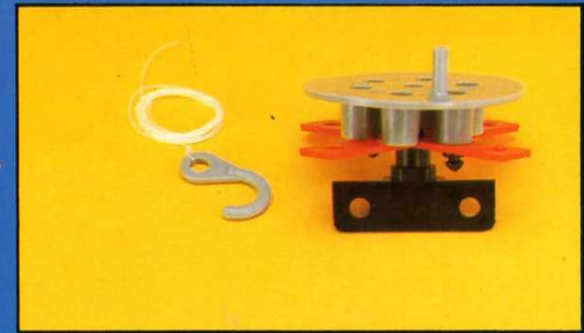
# MARK 2



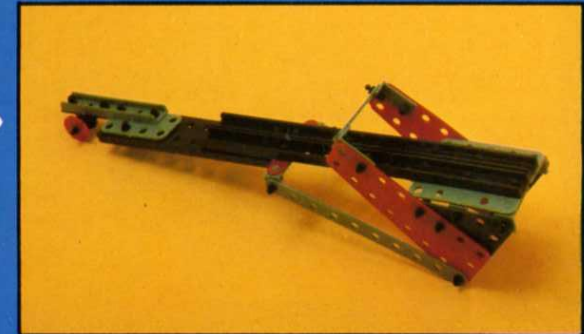
Hoist Pieces



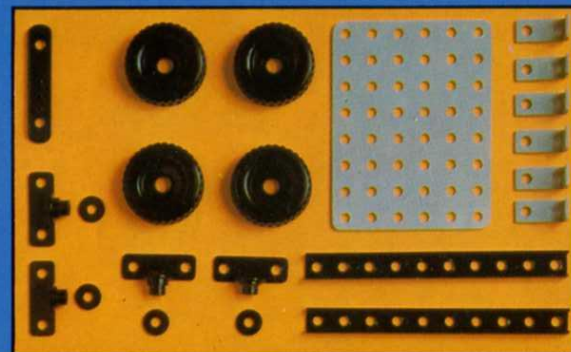
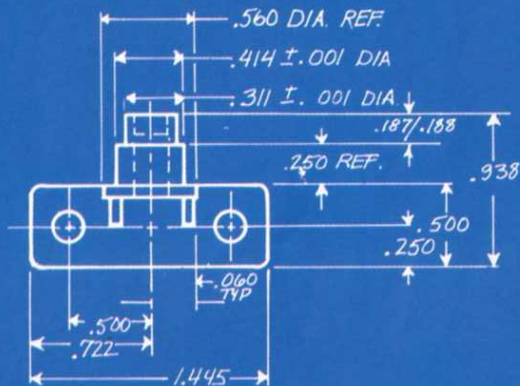
Weight Lifting Assembly



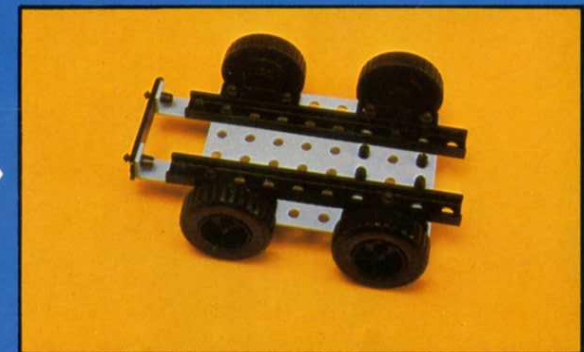
Bottom View



Top View



Chassis Pieces



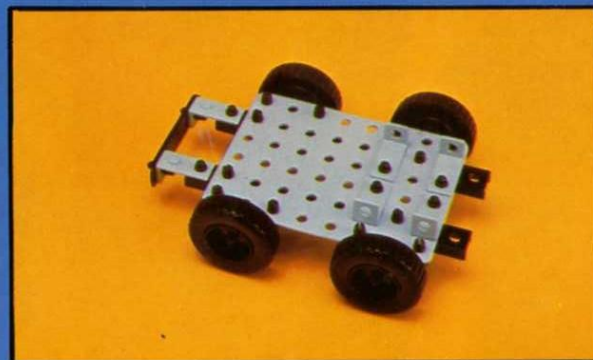
Bottom View

Note: See assembly tips for wheel assembly.

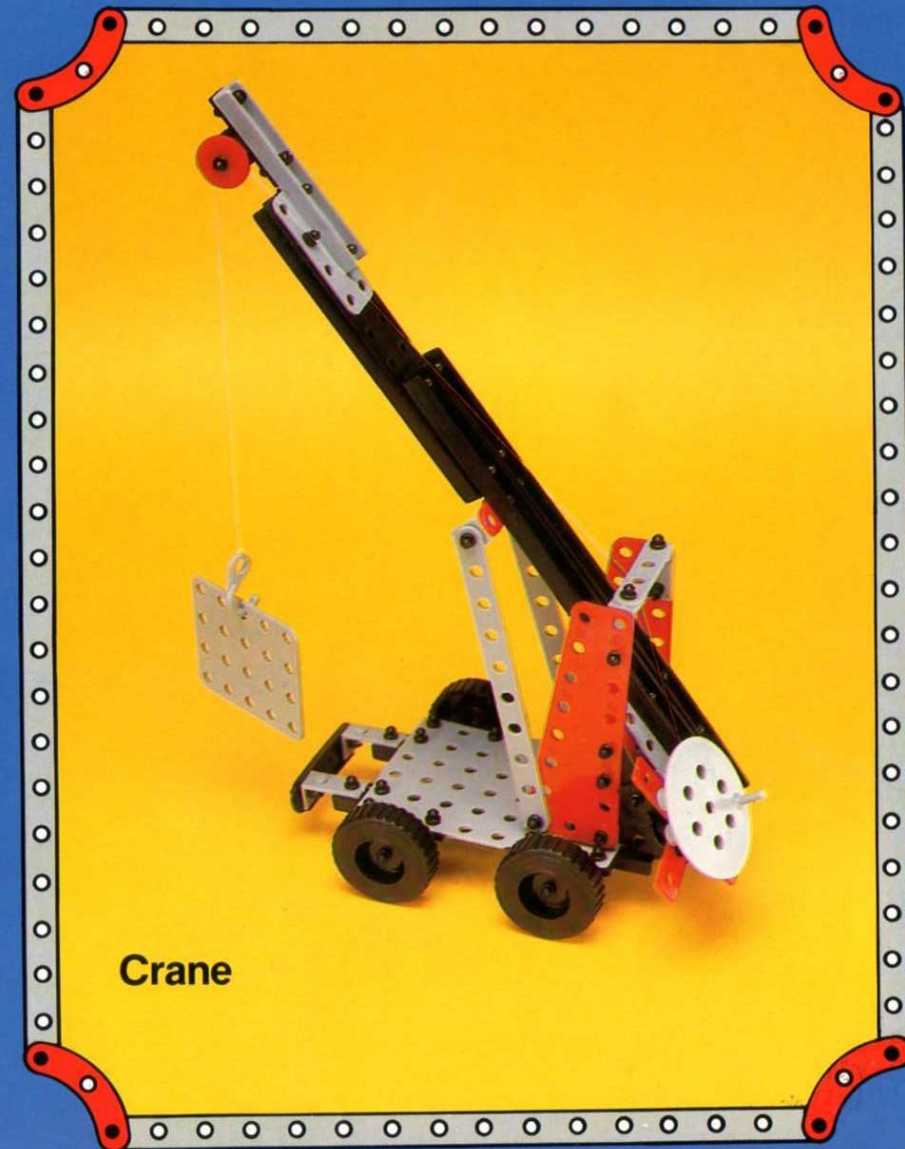




Hoist Subassembly

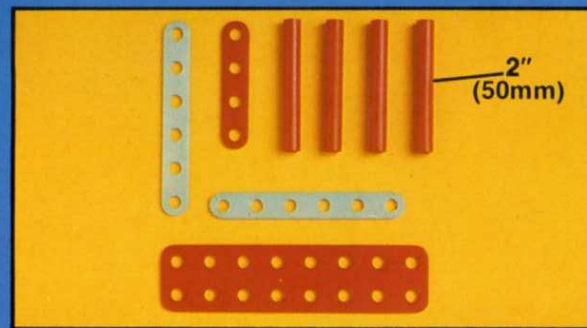
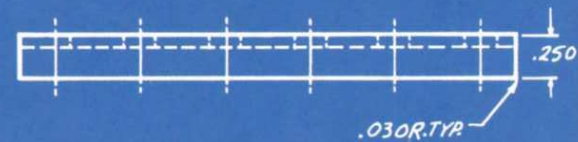
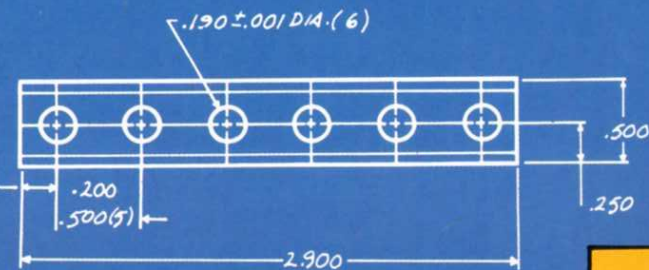


Chassis Subassembly — Top View

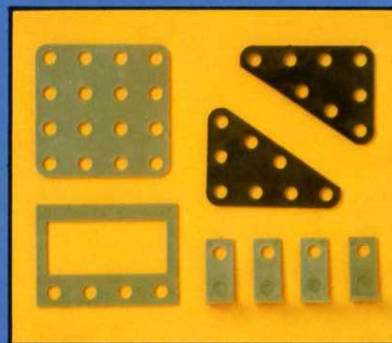
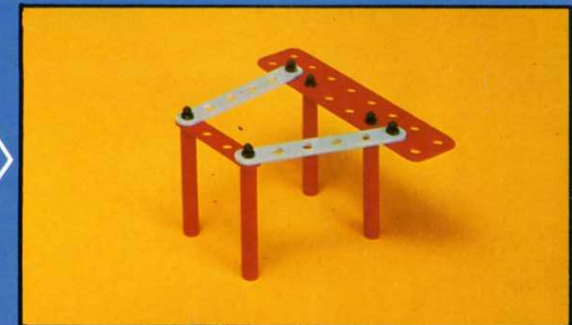




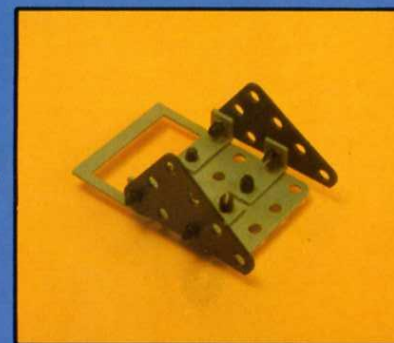
# MARK 2



Airfoil Pieces



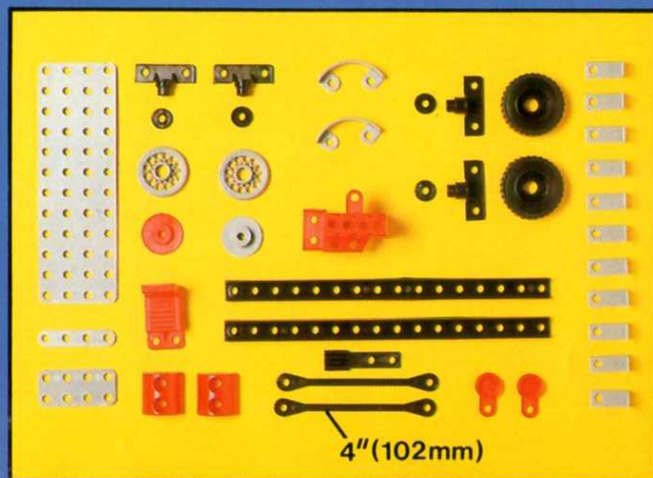
Body Pieces



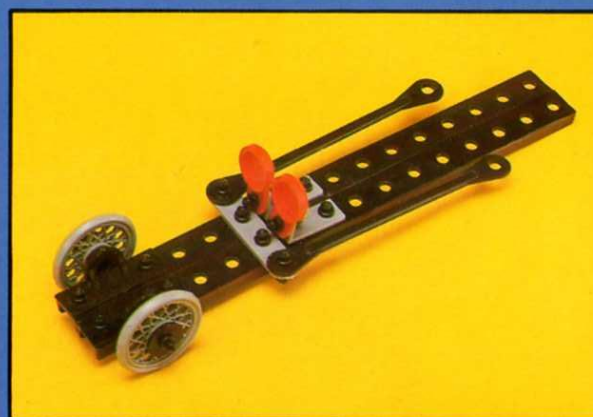
Bottom View



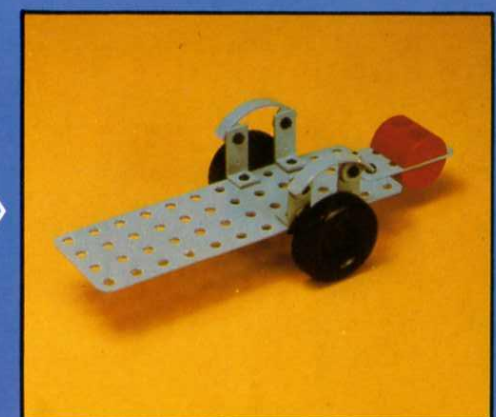
Top View



Chassis Pieces



Chassis Front

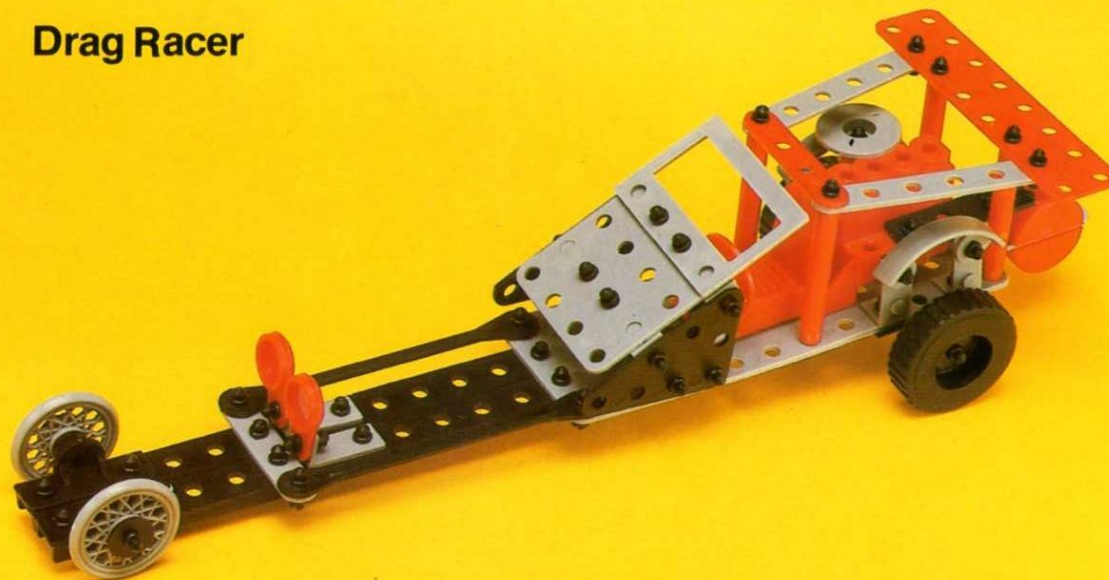


Chassis Back

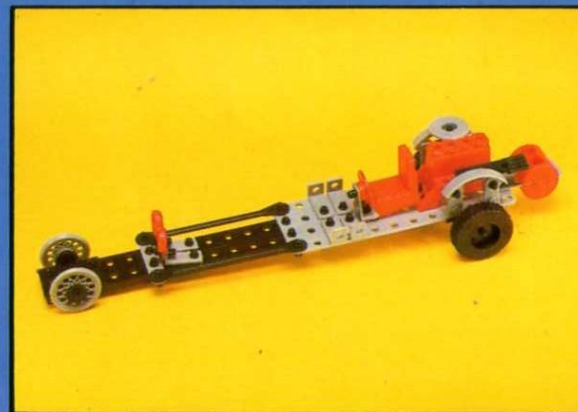
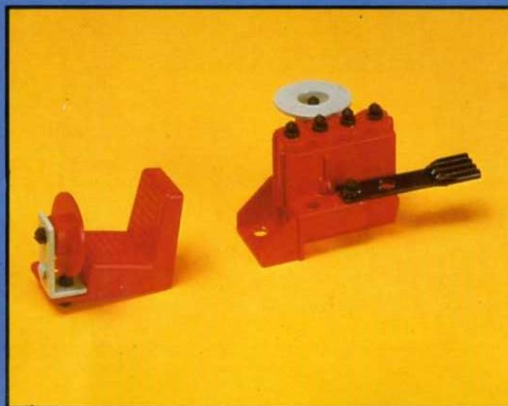
Note: See assembly tips for wheel assembly.



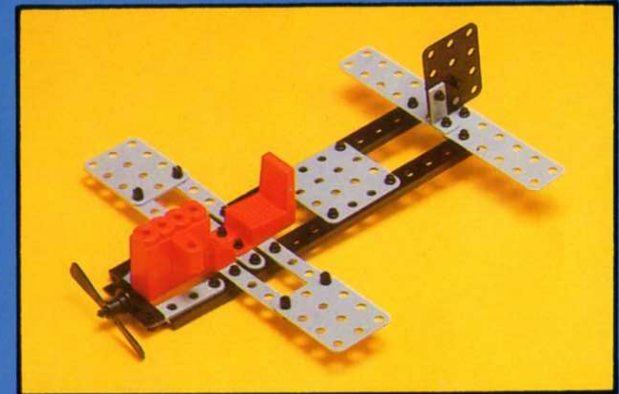
## Drag Racer



Chassis Bottom View

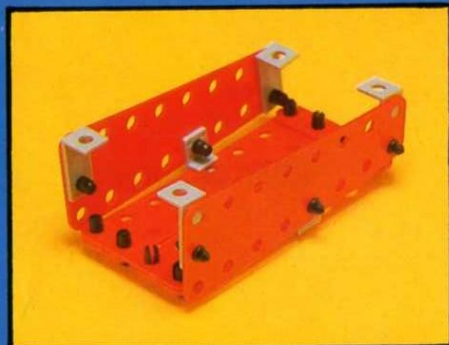




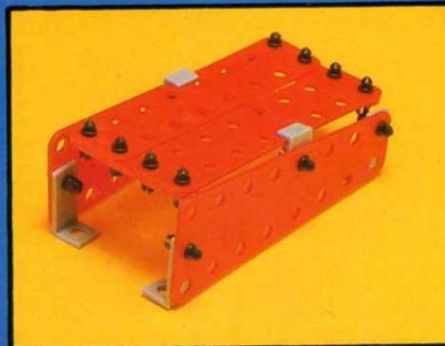


## Seat Assembly

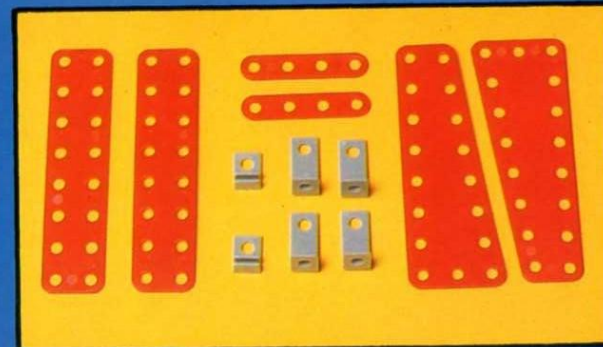




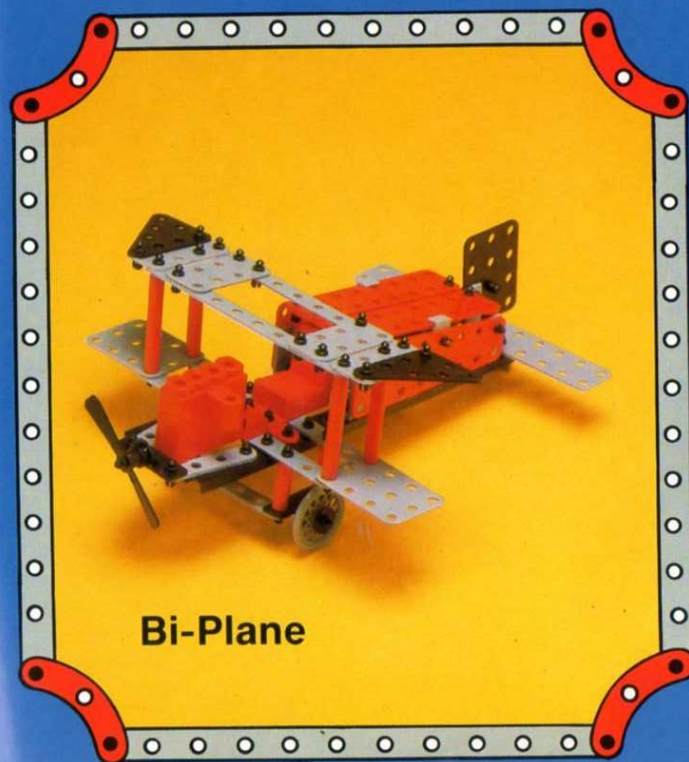
Body Inside View



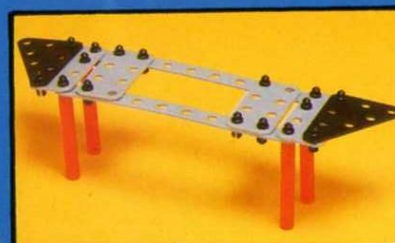
Body Outside View



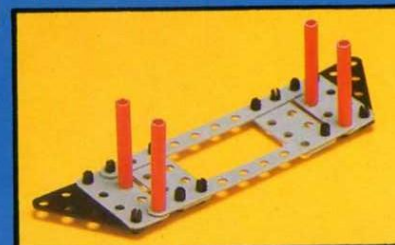
Body Pieces



Bi-Plane



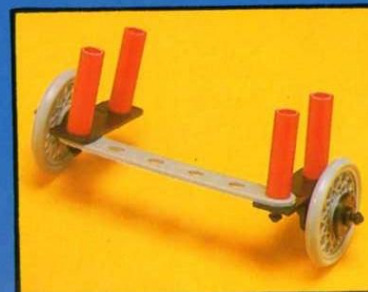
Upper Wing Top View



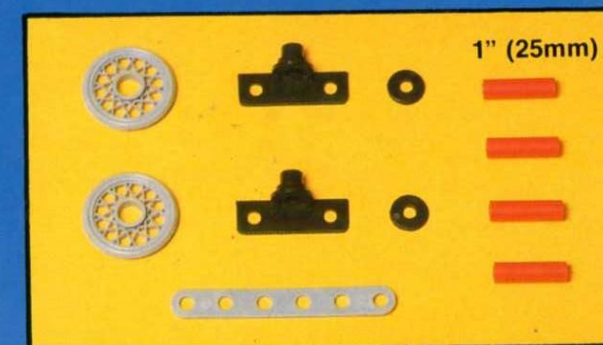
Upper Wing Bottom View



Upper Wing Pieces



Undercarriage Top View

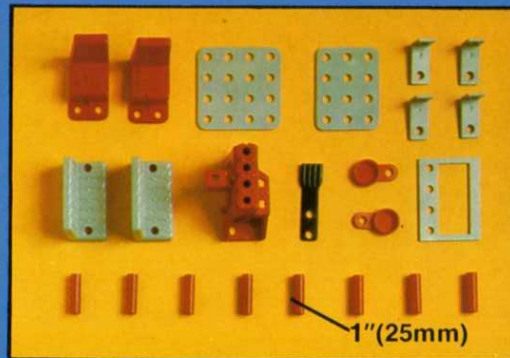
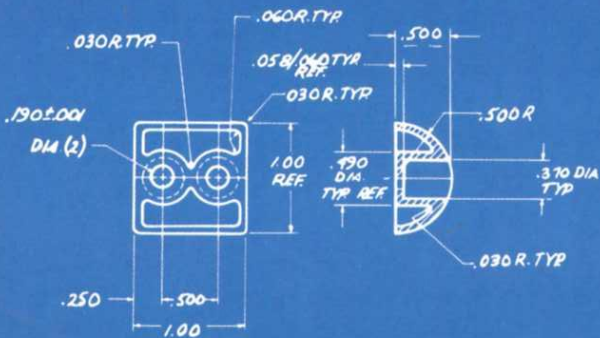


Undercarriage Pieces

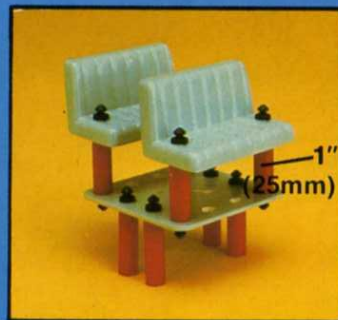
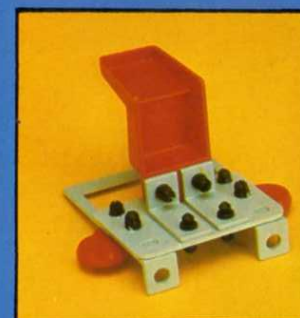
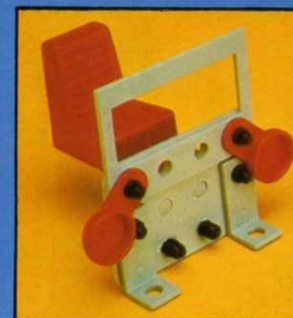
Note: See assembly tips for wheel assembly.



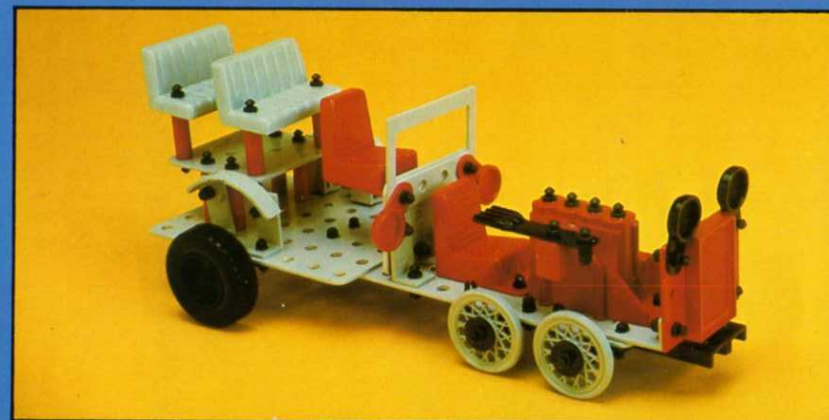
# MARK 2



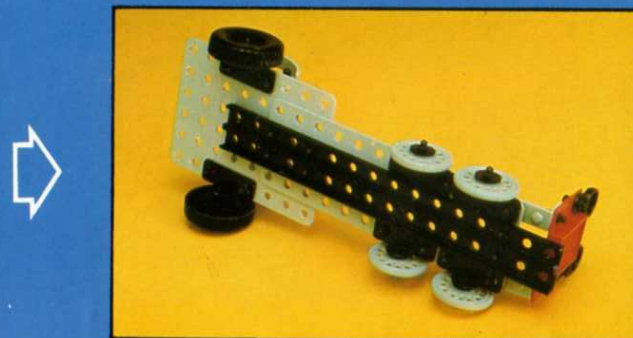
Seat Pieces



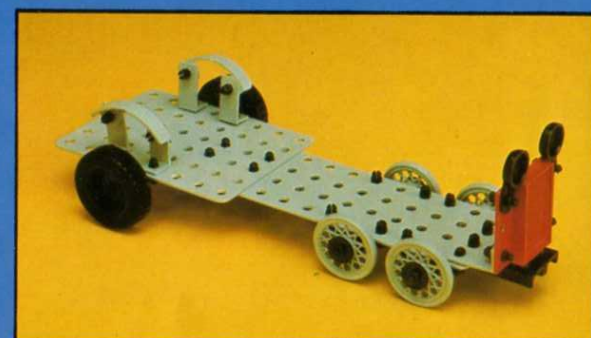
Lower Seat Assembly



Chassis Subassembly



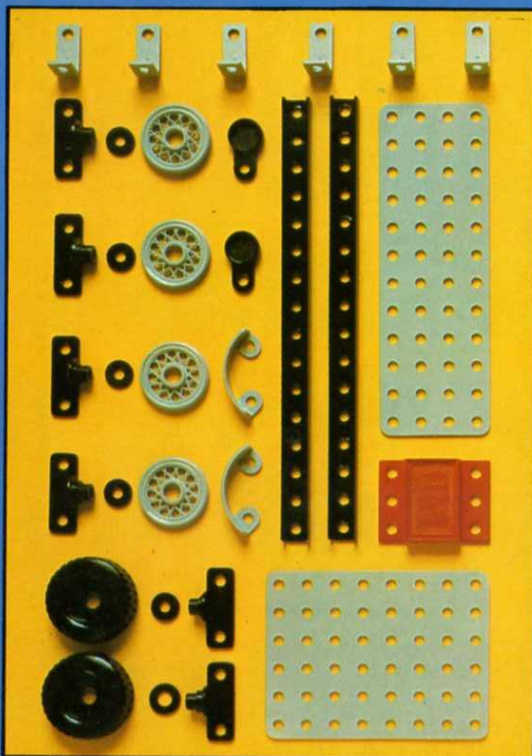
Chassis Bottom View



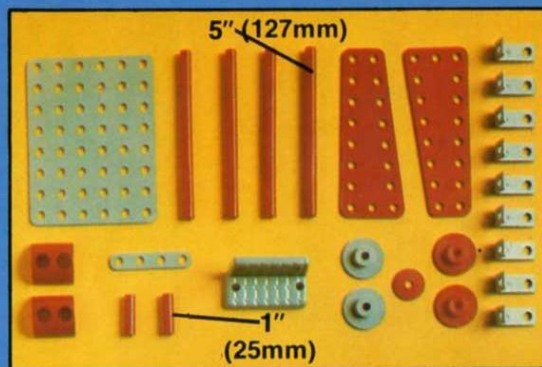
Chassis Top View

Note: See assembly tips for wheel assembly.

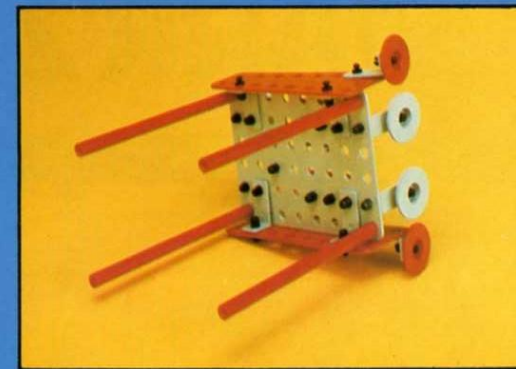
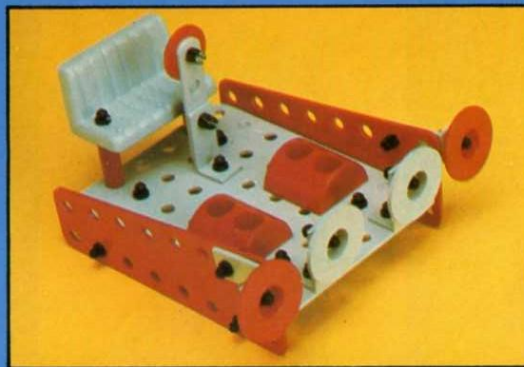
Chassis Pieces



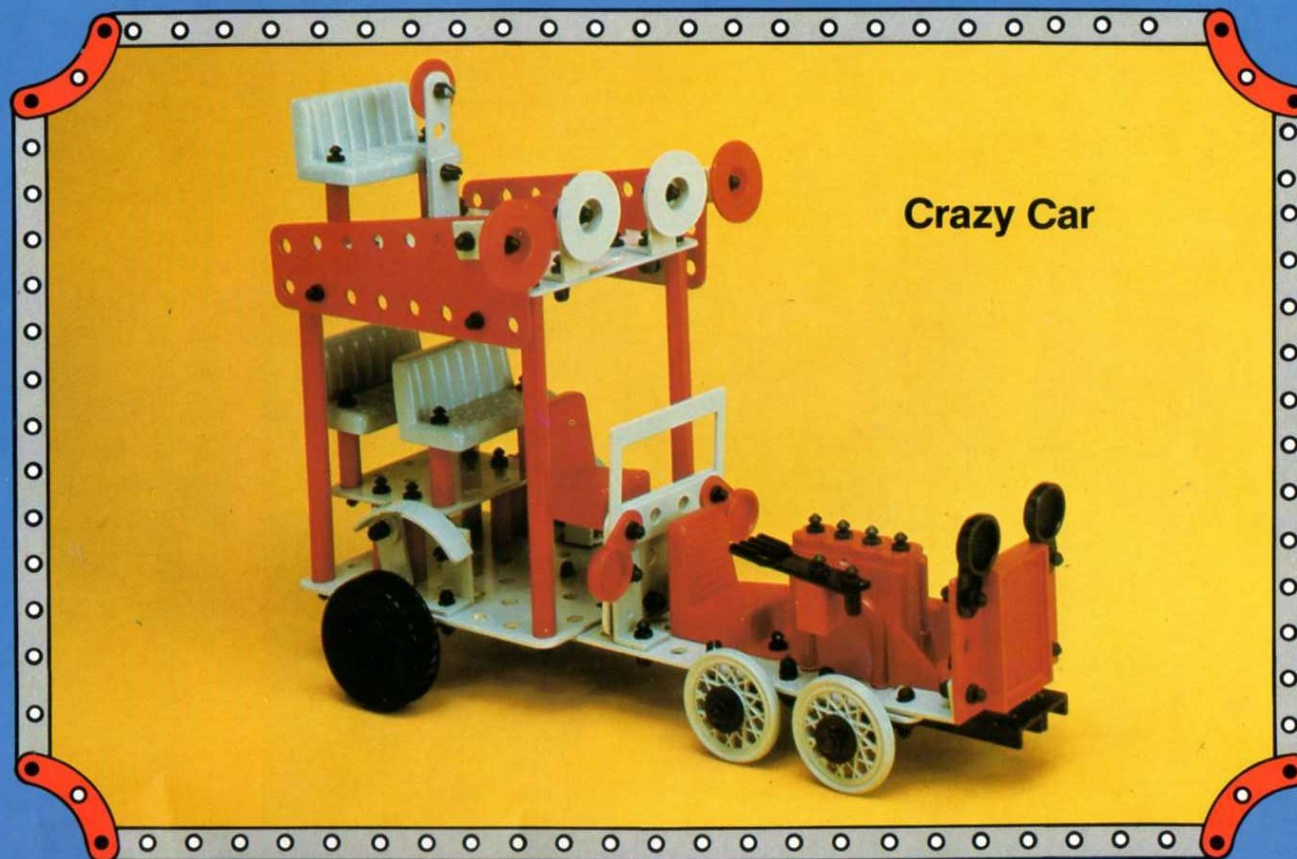




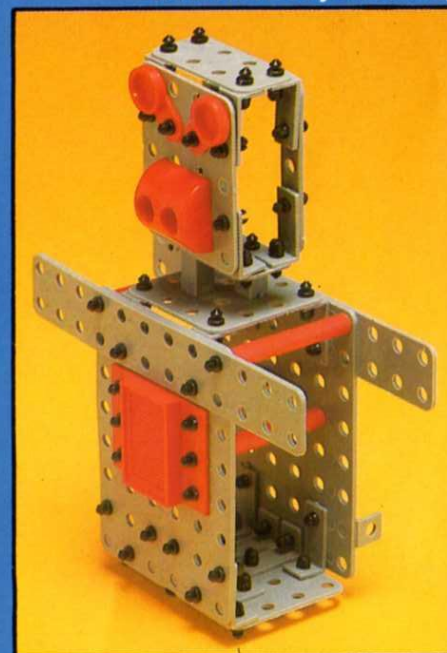
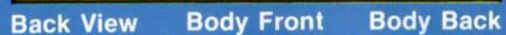
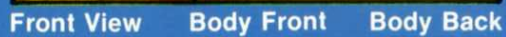
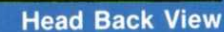
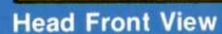
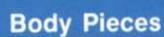
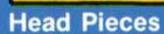
Top Seat Pieces



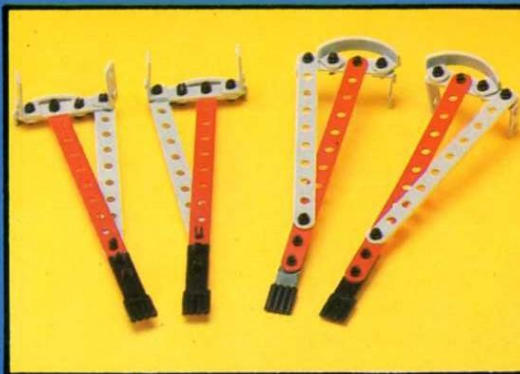
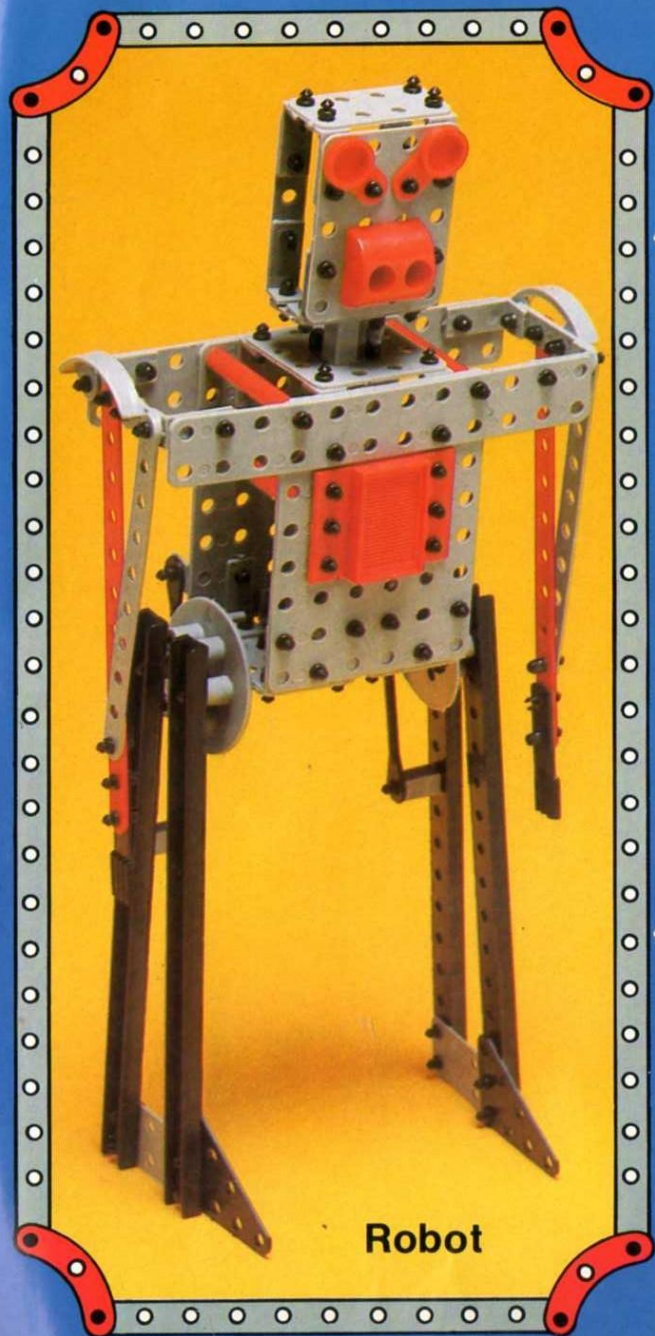
Bottom View





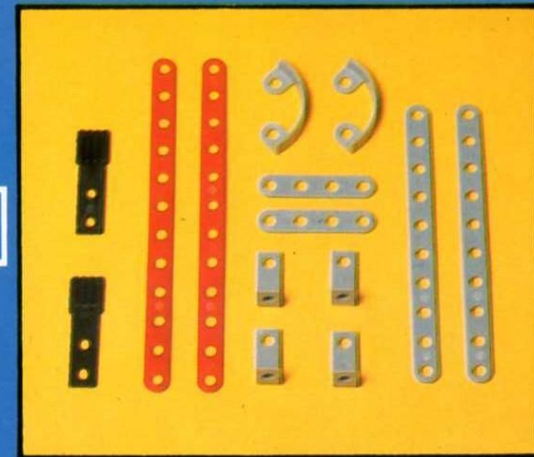




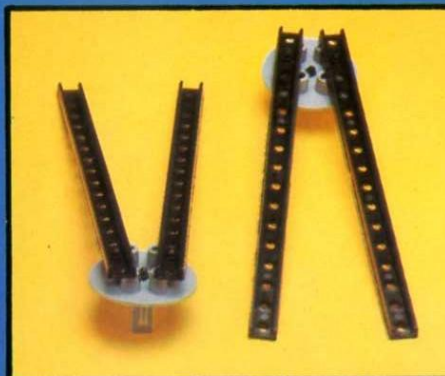


Arms Inside View

Arms Outside View



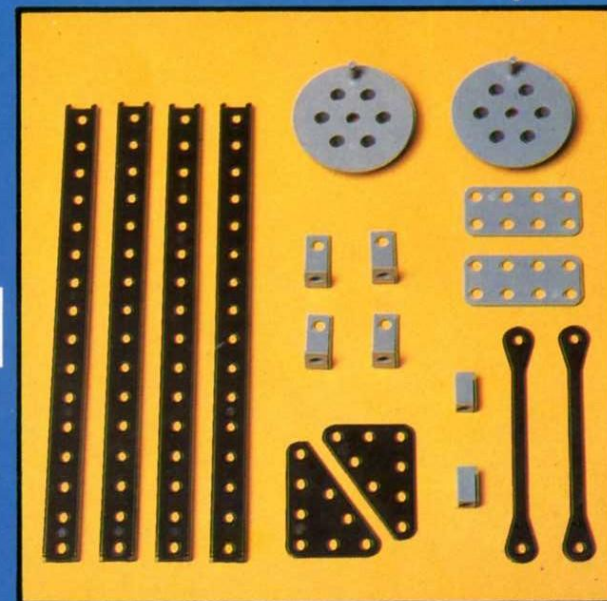
Arm Pieces



Part Leg Assembly Outside View  
(Left and Right)



Leg Assembly Inside View  
(Left and Right)



Leg Pieces



