

Motorized



Engineering System For Creative Kids



Do-it yourself manual

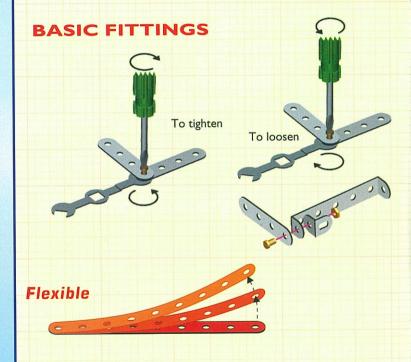
- 1 Read all instructions carefully before constructing.
- 2 place all the pieces used in a step on the side before starting.

Dear Friends!

Zephyr brings yet another International class

class
engineering set
of Mechanix for you,
to have fun & learn.
This set contains
I 14 pieces, crafted
from high quality
Steel, which are
powder coated,
superior plastics

selected tools which will be friendly to your little hands so that you have fun while creating various models. You can use these parts over & over again to create at least 8 models and may be many more as far as your imagination flies. So come on get started!





Gears







- 1 Gear are used to reduce speed and increase power.
- 2 Without gears the motor will not have enough power to move the car.
- Gear CalculationSpur Gear (45 teeth).Worm Gear



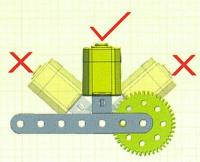
Consider motor is running at 10,000 rpm (rotations per minute)

Input speed = 10,000 rpm

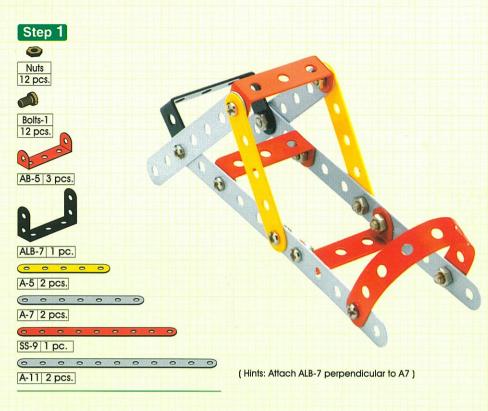
Output speed = $\frac{10,000}{45}$ = 222.22 rpm

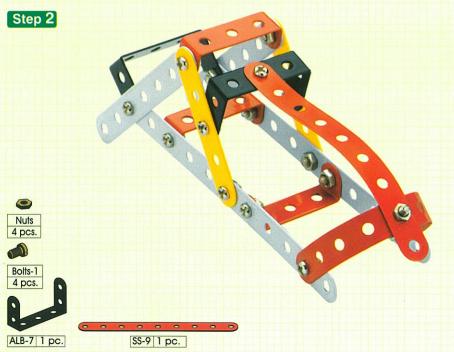
Having Problems

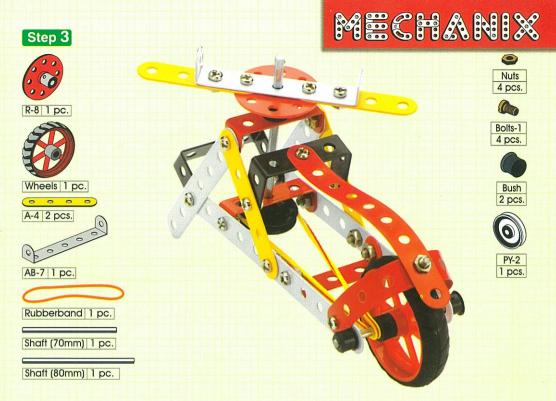
- Motor not working.
 - O Place new batteries
- 2 Motor is working but gears are not working and wheels are not turning:
 - Make sure the wheels are not attached too tightly on the metal pieces. Give a little extra space between wheel and metal pieces.
 - Make sure the axis of worm gear is perpendicular to spur gear.

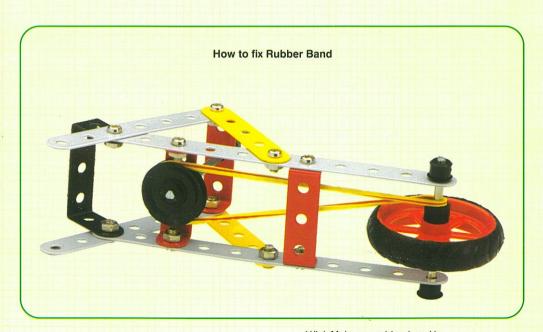


Roll the free wheel with your hand and check if its moving freely. If not, loosen the bushes attached on the wheel shaft.

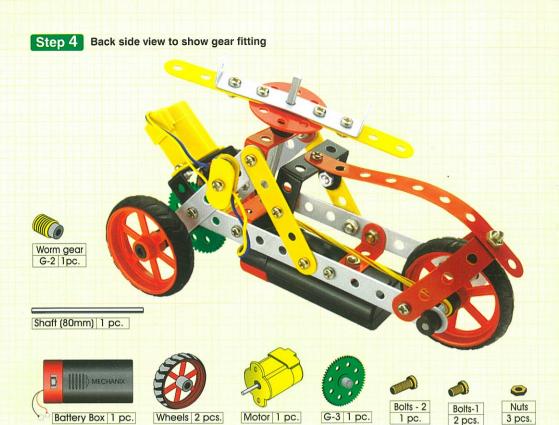


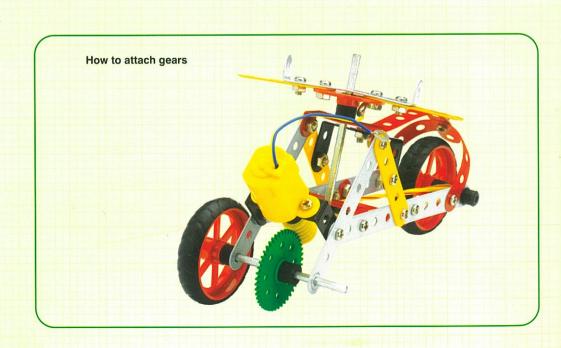






(Hint: Make sure rubber band is placed in shaft before wheel)

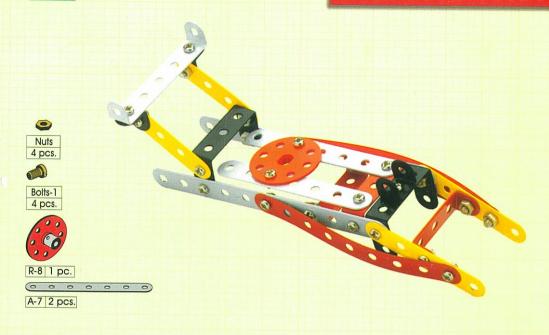


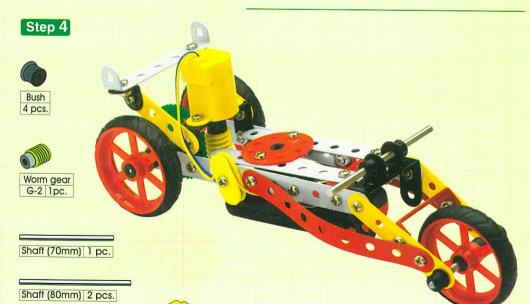


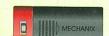




WECHANIX







Battery Box 1 pc.



Wheels 3 pcs.







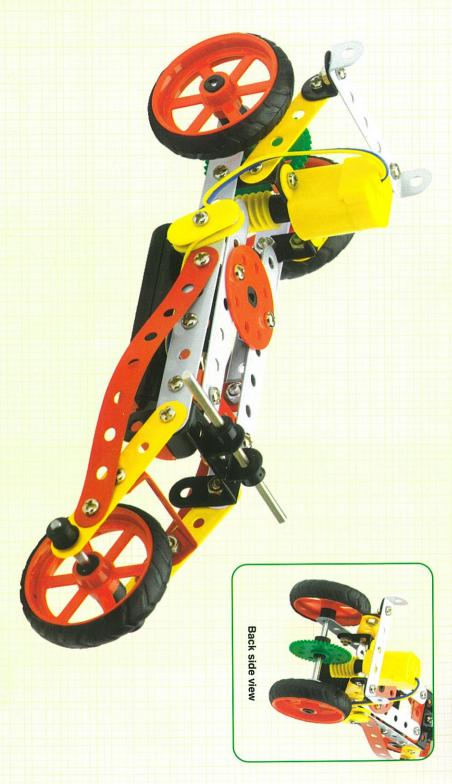




3 pcs.

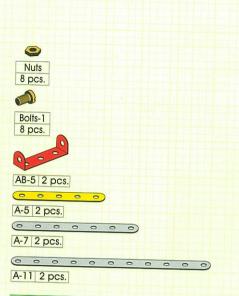


4 pcs.



Step 1

MECHANIX











G-3 1 pc.



Wheels 2 pcs.









4 pcs.

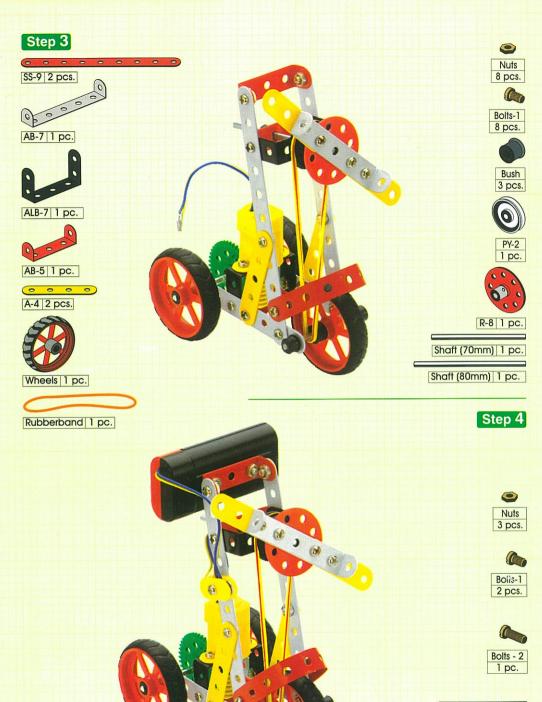
Shaft (80mm) 1 pc.



Motor 1 pc.



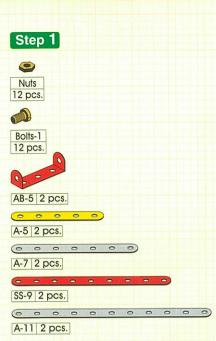
ALB-7 1 pc.





MECHANIX











(Hint: First fix motor to ALB-7. Then fix ALB-7 to model)

MECHANIX



Step 3

A-4 2 pcs.



AB-5 1pc.



R-8 1 pc.



Rubberband 1 pc.

Shaft (70mm) 1 pc.

Shaft (80mm) pc.





MECHANIX

1 pc.



Bush 4 pcs.



2 pcs.



2 pcs.

(Hint: Use 2 bush to tighten AB5 on shaft)

(Note: This is back facing view of model for a better understanding.)

Step 4





1 pc.



Battery Box 1 pc.



Bolts - 2 1 pc.



Wheels 2 pcs.



Worm gear G-2 1pc.



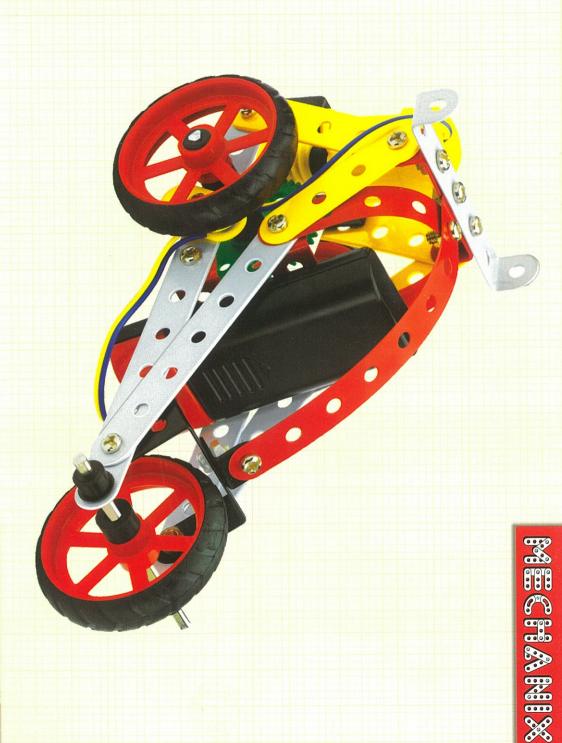
G-3 1 pc.

Shaft (80mm) 1 pc.

(Hint: Remove the 2 nuts and bolts and refit it with battery box.)

MECHANIX







PLASTIC MECHANIX





MECHANIX - Cars I

Contents: _

- 57 Pcs.
- No.of Models: 4



MECHANIX - Cars 2

Contents: -

- 81 pcs.
- No.of Models: 7



MECHANIX - Cars 3 Contents:

- 175 pcs.
- No.of Models: 15



MECHANIX - Planes I

Contents:

- 57 Pcs.
- No.of Models: 4



MECHANIX Planes 2

Contents:

- 81 pcs.
- No.of Models: 7



MECHANIX - Planes 3

Contents:

- 180 pcs.
- No.of Models: 15

MECHANIX - MobiTech

Contents:

- 110 pcs.
- No.of Models: 14

METAL MECHANIX



MECHANIX - NX0

Contents:

- 108 pcs.
- No. of Models: 7



MECHANIX - 4

Contents: _

- 263 pcs.
- No. of Models: 20



MECHANIX Racing Cars

Contents:

- 155 pcs.
- No. of Models: 15



MECHANIX - 0

Contents:

- 98 pcs.
- No. of Models: 5



MECHANIX - 5

Contents:

- 301pcs.
- No. of Models: 25



MECHANIX Monster Buggies

Contents:

- 98 pcs.
- No. of Models: 5



POCKET

MECHANIX - Bikes

Contents: _

- 68 pcs.
- No. of Models: 3





MECHANIX - Cars

Contents:

- 65 pcs.
- No. of Models: 3



MECHANIX - 1

Contents:

- 128 pcs.
- No. of Models: 10



Motor Bikes 1

Contents:

- 152 pcs.
- No. of Models: 15



MECHANIX **Battle Station**

Contents:

- 95 pcs.
- No. of Models: 9



MECHANIX - 2

Contents:

- 170 pcs.
- No. of Models: 15



Eiffel Tower

Contents:

- 2125 pcs.
- Packed in an attractive wooden box



MECHANIX

Robotix

Contents:

- 296 pcs.
- No. of Models: 5



MECHANIX Helicopters

Contents:

- 68 pcs.
- No. of Models: 3



POCKET

MECHANIX

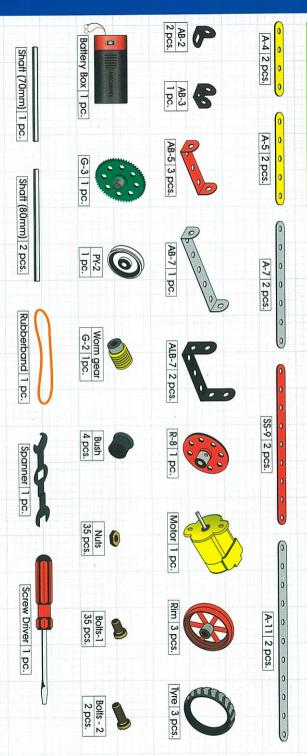
Planes Contents:

- 82 pcs.
- No. of Models: 3

That fresh smile and laughter, giggles and chattering of the little kids are one of the most refreshing happiness that touches the heart. Like the cool evening breeze on the rise that refreshes the soul of a worked up being. That is what Zephyr is all about and about quality, in the true sense of the word. Quality of play, quality of education and quality of product

We bring you a whole range of play and educational toys of international standards that undergo through the strict quality control of the Zephyr family itself. Our kits have won quite a few awards and Mechanix is our star set that has won "The Best Educational Toy" and "The Best Toy" award at the TAITMA. We do not do business, at Zephyr's we befriend children. A smile on your child's face is our gain.

Engineering System
For Creative Kids



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August 2018

More Than Just Play