

MAGFORMERS®

Intelligent Magnetic Construction Set For Brain Development

HEAVY DUTY SET

MAGFORMERS MODEL BOOKLET





















MAGFORMERS LLC

Magformers Heavy Duty Set

Magformers Heavy Duty Set comes with Magformers magnet pieces as well as moving accessories including R/C Motor Wheel, Engine Block, Elevator Block and Sliding Block. You can actively play with this set by making models that move.

01 Composition (73PCS)

 Triangle X 4	 Square X 18	 Isosceles Triangle X 4	 Rectangle X 4	 Diamond X 2	 Trapezoid X 2	 Sector X 4	 Arch X 2	 Mini Rectangle X 6	 Super Arch X 3
 Super Rectangle X 1	 Half Arch X 2	 Half Circle X 4	 Hexagon X 2	 Mirror Piece X 1	 Boy square X 1	 Block X 2	 Wheel X 1	 R/C Motor Wheel X 1	 R/C Remote Control X 1
 Engine Block X 1	 Elevator Block X 1	 Back Rushing Connector X 1	 Sliding Block X 1	 Battery Pack X 1	 90° Female Connector X 1	 Female Auto Connector X 1	 Square Auto Connector X 1		

02 How to Use Battery Pack



Power Button

The Battery Pack delivers power to move Magformers. All the moving pieces should be connected to the Battery Pack for movement. (The battery is not included.)

03 How to Use Engine Block



When you connect the Engine Block to the Battery Pack, it allows it to rotate. Pink buttons on both sides of the Engine Block work as follows.

01 Speed control button can control the rotation speed.





02 Only the blocks plugged in the direction of the arrow rotate.



04 Movement Direction of Magformers

The Engine Block is connected to the blocks below, and the rotation of the Engine Block makes parts move in many different directions.

Rotation	Piston	Sliding	Connector
 <p>It rotates in many different directions.</p>	 <p>Rotation power changes to make the piston go in and out.</p>	 <p>Rotation power changes to make the attachments slide side to side(up and down).</p>	 <p>It delivers rotating power.</p>

05 How to Use Accessories & Types of Motion

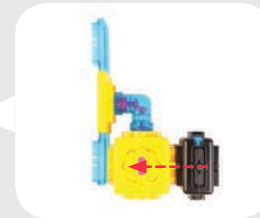


Magformers magnet pieces can fit in the blocks above. Combine the magnet pieces to make each shape(□□□□□□) and make many models that move realistically.

Bulldozer



Forklift



The Engine Block receives power from the Battery Pack and rotates. The 90° Female Connector delivers this rotating power to the Elevator Block or Sliding Block. Then, the block that received the power rotates or moves in and out or slides. Make many Magformers models and learn about the types of motion.

06 How to Use R/C Motor Wheel and R/C Remote Control

Make your own car with Magformers R/C and drive it. With the Magformers car that moves without being touched like magic, your dreams can come true.

R/C Motor Wheel

You can use the R/C motor wheel with the receiver in many ways such as the rear wheel of a car and the front wheel of a train. When you turn on the power, the red lamp lights up. And you can control it if you connect it in the direction of the power button on the back side. The receiver will be on the back side as shown in the picture on the right.

* The battery is not included. (Use AAA 1.5V X 3EA)



R/C Remote Control

It is equipped with a transmitter so you can control the R/C motor wheel. When you turn on the power, the red lamp lights up(light blinks) and starts transmission.

* The battery is not included. (Use AAA 1.5V X 3EA)



Going forward



Left turn



Sharp turn to the left



Going backward



Right turn



Sharp turn to the right

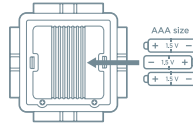


07 How to Change Battery



Remote Control

R/C Motor Wheel



Battery Pack

R/C Motor Wheel, R/C Remote Control and the Battery Pack need 3 AAA batteries each. Please insert the batteries according to the marked (+) and (-) poles.

* The battery is not included.

08 Warnings

R/C - Troubleshooting

- If the R/C motor wheel moves slowly or does not work smoothly, there might be a power issue. Please change the batteries.
- Please aim the R/C remote control transmitter towards the receiver of the R/C motor wheel. Please do not cover the transmitter.
- Remote control range is up to 5-8m(16.4-26.2 ft.). However, lagging may occur depending on its operating condition. Please use it within a 3-4m(9.8-13.1 ft.) range.

R/C - Other Warnings

- Please make sure to turn off the power after use since it may drain the battery.
- Control on an actual road may be dangerous, so please only use indoors.
- Please do not throw, or drop Magformers R/C.
- Magformers R/C uses a single frequency. If you use multiple units at the same time, it may cause a malfunction.

Battery Pack Warnings

- If the Battery Pack moves slowly or does not work smoothly, there might be a power issue. Please change the batteries.
- Please make sure to turn off the power after use since it may drain the battery.
- Please do not throw, or drop Battery Pack.

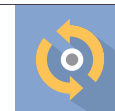
Battery Warnings

- If putting a battery in it or using it mistakenly, overheating, rupture and lachrymal fluid could be caused.
- When lachrymal fluid oozes out, never touch it with hands.
- When the fluid which comes out from the battery is stained with the skin or the clothes and gets into the eye, counsel with the doctor immediately.
- Do not mix old and new batteries.
- Do not mix alkaline, standard(carbon-zinc), or rechargeable(nickel-cadmium) batteries.
- Turn off the power when not in use.
- After playing, turn off the power without fail and keep it separate from others.
- Separate the used battery safety.

How to Make Tunnel boring machine



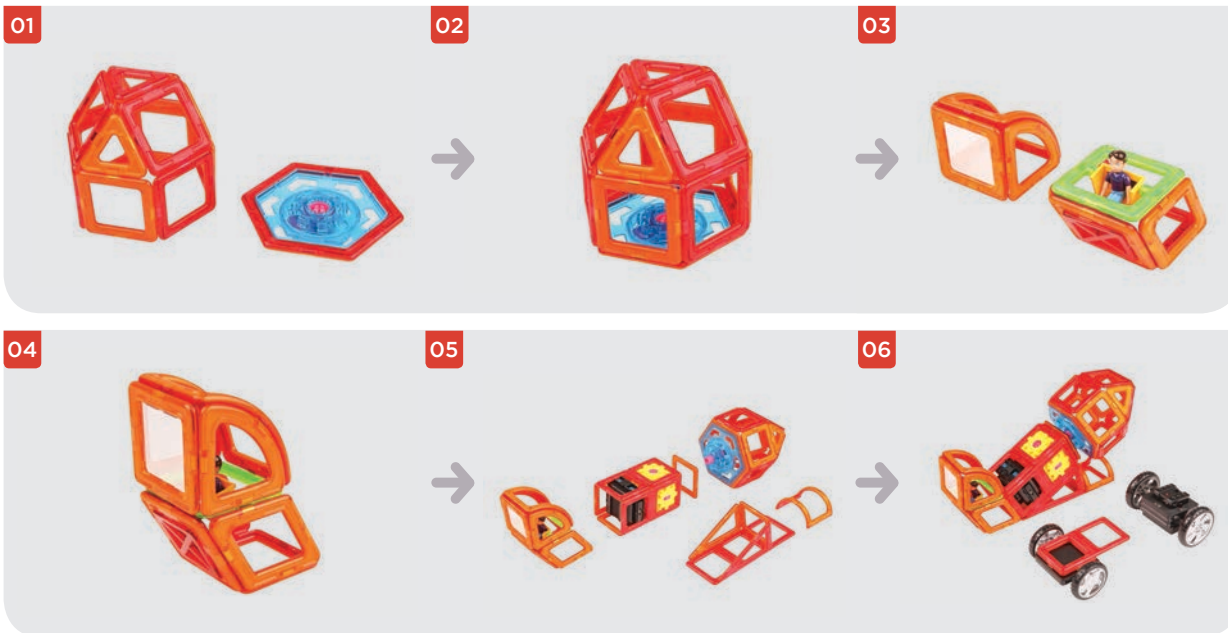
Composition



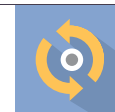
Tunnel boring machine



How to Make Concrete mixer



Composition



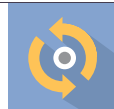
Concrete mixer



How to Make Street sweeper



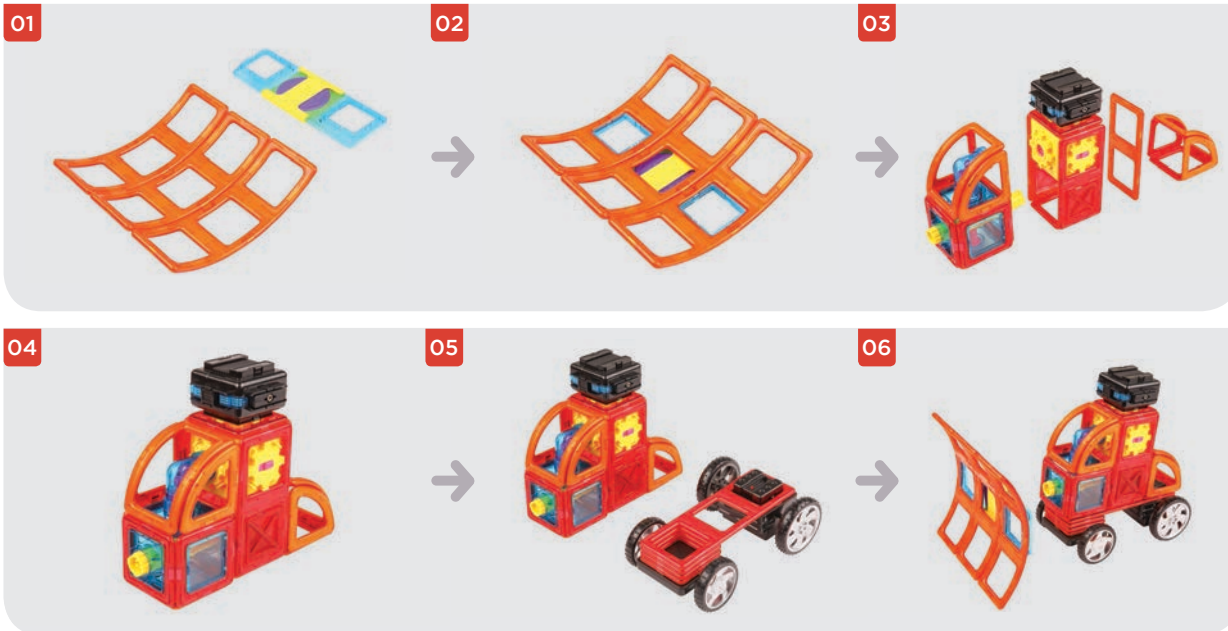
Composition



Street sweeper



How to Make Bulldozer



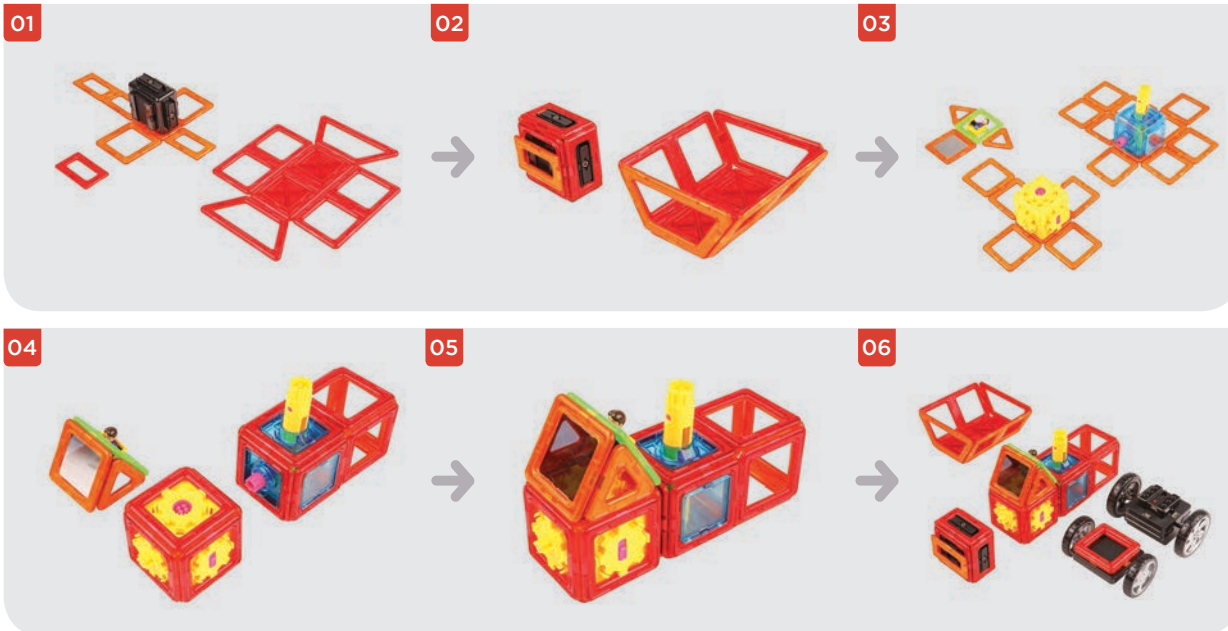
Composition



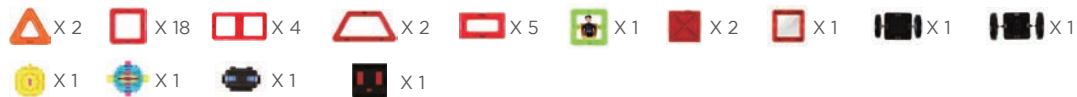
Bulldozer



How to Make Dump truck



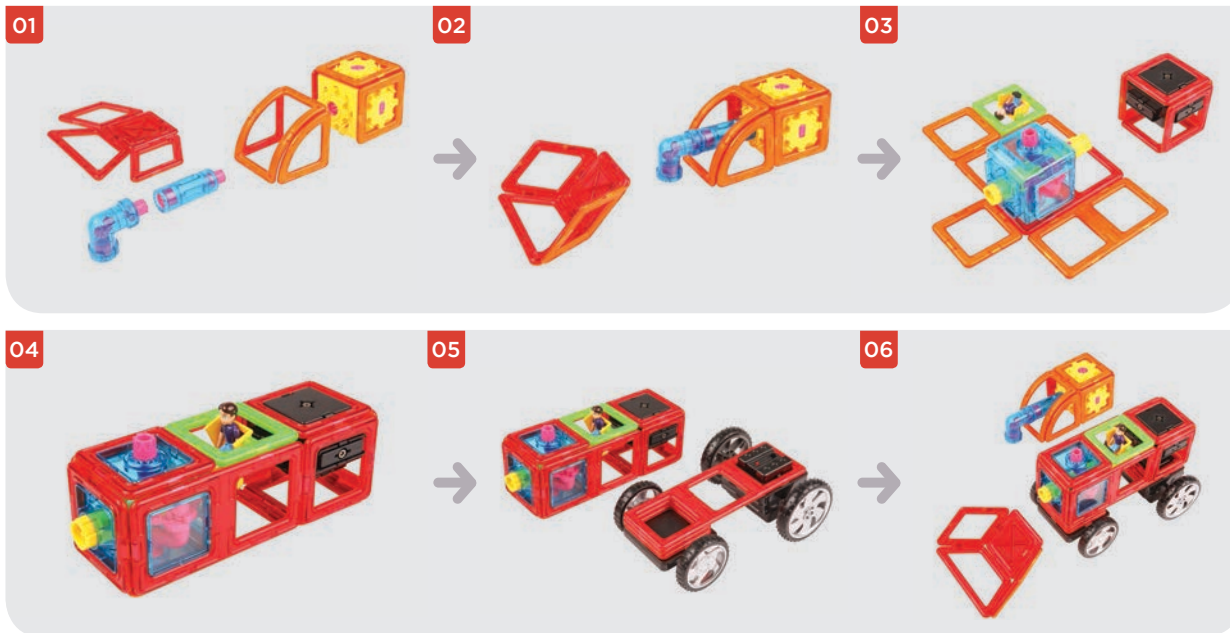
Composition



Dump truck



How to Make Loader



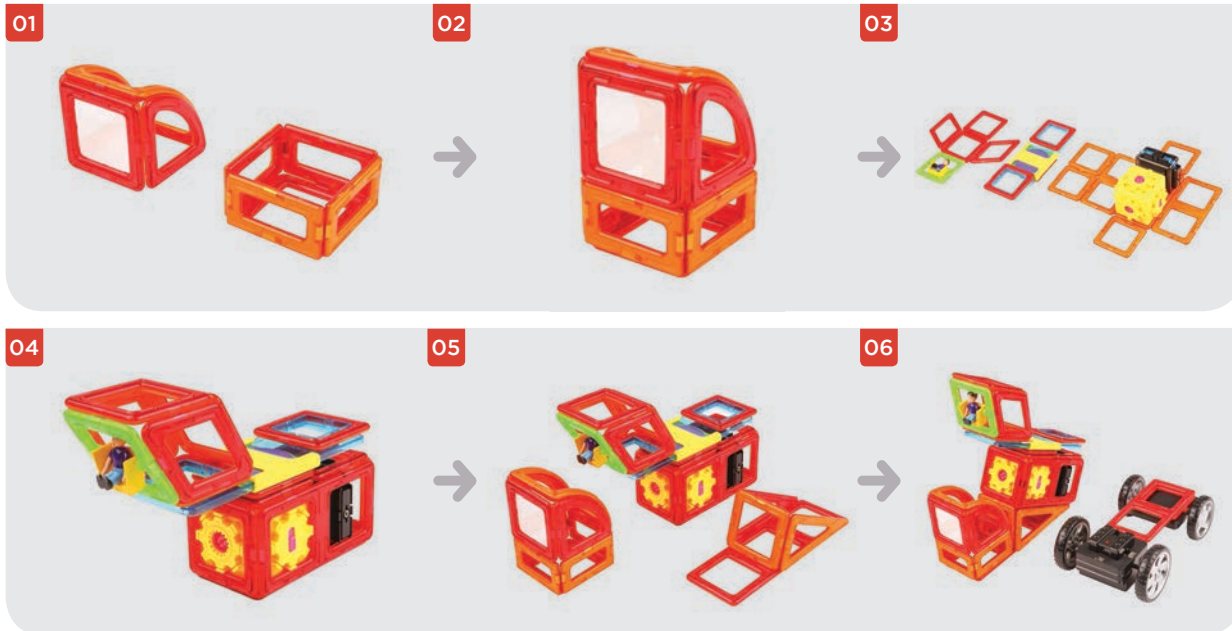
Composition



Loader



How to Make Ladder truck



Composition

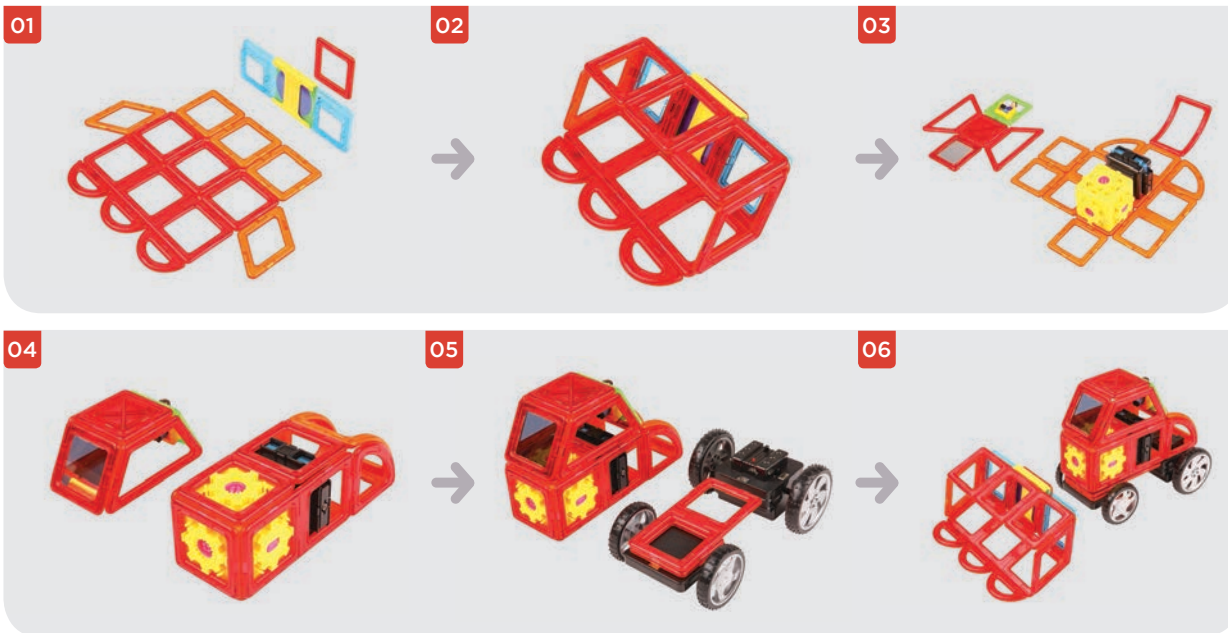
-  X12
-  X2
-  X4
-  X2
-  X1
-  X2
-  X4
-  X1
-  X1
-  X1
-  X1
-  X1
-  X1
-  X1
-  X1
-  X1



Ladder truck



How to Make Snowblower



Composition



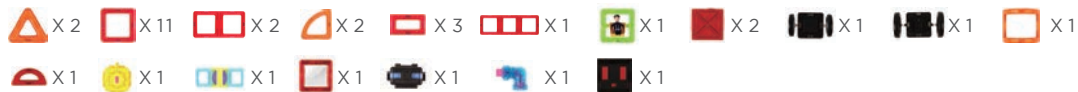
Snowblower



How to Make Forklift

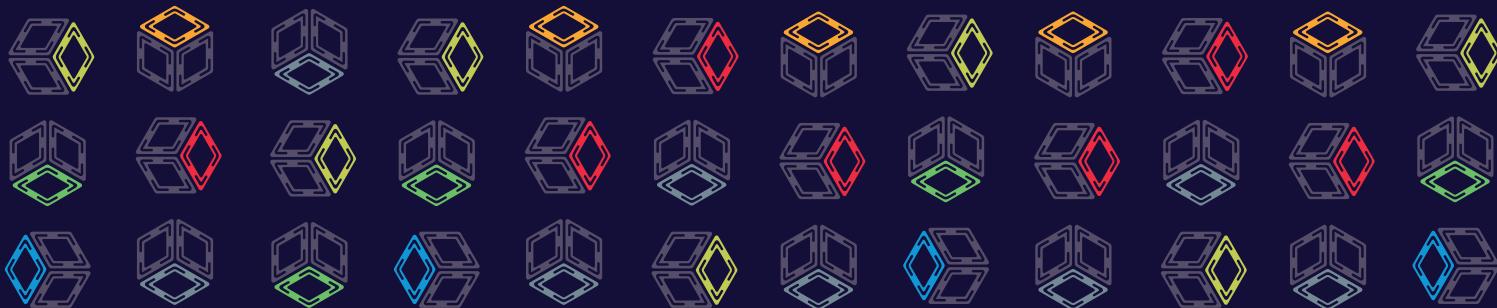


Composition



Forklift





How to Remove and Insert Replaceable Batteries

- Remove screws and place three AAA batteries in the correct position as displayed inside.
- Non-rechargeable batteries are not to be recharged.
- Rechargeable batteries are to be removed from the toy before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Batteries are to be inserted with the correct polarity.
- Exhausted batteries are to be removed from the toy.
- The supply terminals are not to be short-circuited.

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