

anko

Build Your Own SOLAR & SALT WATER ECO-ROBOT

PHYSICS

- › build it yourself
- › using solar or salt water to operate the eco-robot
- › get ready to build-it-yourself :
 1. eco-solar robot
 2. salt water robot

8+ years

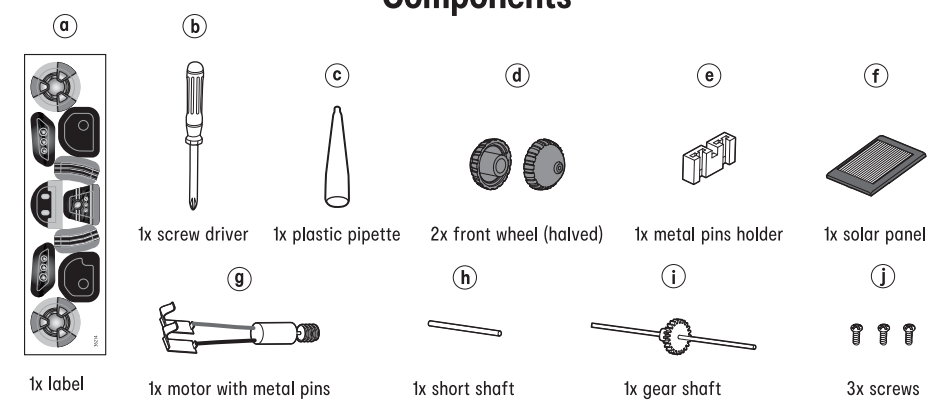
STEM
SCIENCE
TECHNOLOGY
ENGINEERING
MATHS



Solar & Salt Water Eco-Robot

Convert sunlight into electricity or salt water to produce clean power!

Components

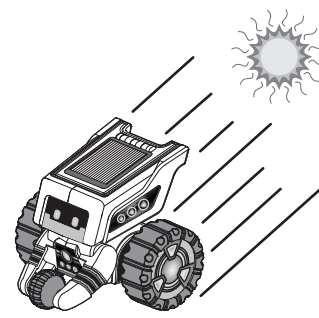


How to Play

Powered by Solar Panel (Eco-Solar Robot)

› Put the Eco-Solar Robot under the natural sunlight to watch it GO!

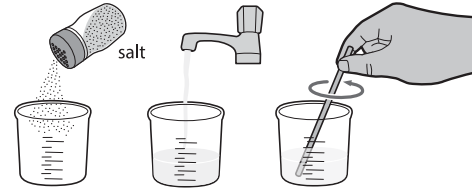
Warning: Solar Operation:
You may use a 100W light bulb at about 5cm away from the solar panel for testing purpose. This way you can see that it will operate like under ordinary sunlight. However, this is for testing purpose of short period only and not for normal use. Placing the light bulb close to the solar panel for long may melt the plastics or damage the solar panel under the large amount of heat.
Warning : Overheating hazards. Do not touch the solar panel.



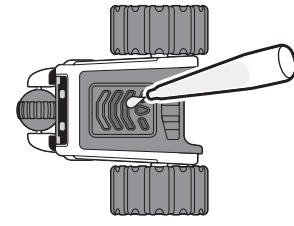
Powered by salt water triggered chemical reaction Robot

› Mix a solution of at least 2 full teaspoons of salt with a cup of water. Stir the mixture to make sure that the salt is dissolved. You don't have to worry about putting too much salt into the water as this will not cause harm to the kit.

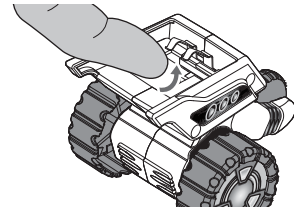
Remarks: Salt, cup, stick...etc. not included



To start operate with salt water, drip 2-3 drops of salt water onto the salt water power module as shown. A few drips needed only. Don't overflow it.

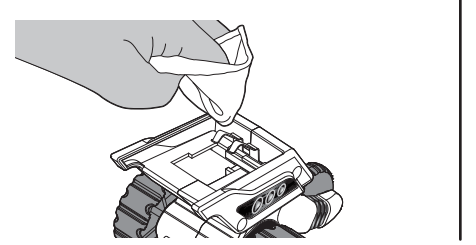


Pro Tips: As this is a build-it-yourself kit which can be assembled and played as many times as you desire, there might be a possibility of connection failure to power up the kit. In case this happens, the first thing to check is to make sure that the metal pin is in the right position for connecting solar/salt water panel. To do so, please remove the solar/salt water panel, then use your finger to slightly adjust the metal pins by moving upward and then insert the solar/ salt water panel again.

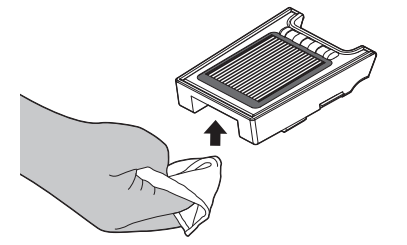


Tips for Caring

1. **Motor with metal plates** - for the salt water experiment always use wet cloth to gently wipe the two metal plates attached to the motor and then use dry cloth to carefully dry these parts. This is to protect the life expectancy of the product.



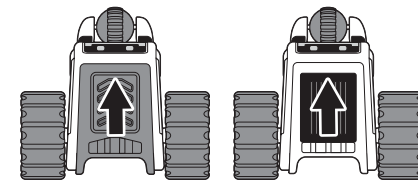
2. **Solar Panel** - always make sure that motor with metal plates are dried and have no traces of salt water before inserting solar panel. Otherwise, please wipe the plate underneath the solar panel.



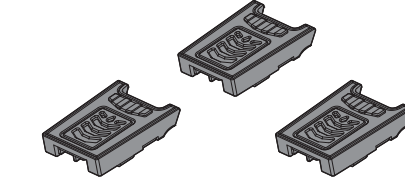
Troubleshooting

If the kit is not working please check the followings:

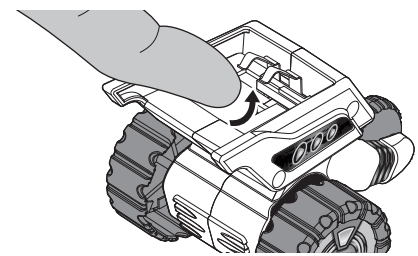
› Ensure solar panel or salt water power module is fully inserted by pushing in.



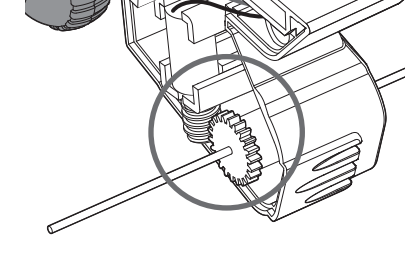
› Replace a new salt water power module if the kit does not work after operated for some time.



› Please check metal pins attached to solar/salt water panel is in right position. To do so, please remove solar/salt water panel and then use your finger to slightly adjust metal pins by moving upward.



› If you find the kit still cannot power up after adjust the metal pins, we suggest to unscrew the main body and check the motor connect with gear shaft properly.



PRODUCT MAY VARY SLIGHTLY FROM IMAGES SHOWN. PLEASE KEEP PACKAGING FOR FUTURE REFERENCE.

WARNING: FOR SAFETY REASONS, REMOVE ALL TAGS, LABELS AND PLASTIC FASTENERS BEFORE GIVING THIS TOY TO YOUR CHILD.

WARNING: HAIR ENTANGLEMENT MAY OCCUR IF THE CHILD'S HEAD IS TOO CLOSE TO THE MOTORISED UNIT OF THIS TOY. ADULT SUPERVISION AND ASSISTANCE IS REQUIRED.

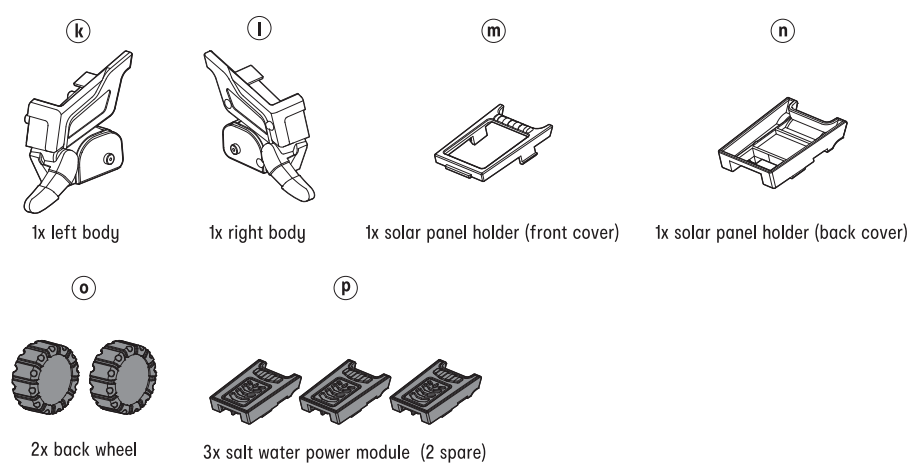
WARNING: CHOKING HAZARD - SMALL PARTS. NOT SUITABLE FOR CHILDREN UNDER 3 YEARS.

WARNING: THIS TOY CONTAINS FUNCTIONAL SHARP EDGE ON METAL PLATE AND CONTAINS FUNCTIONAL SHARP POINT ON THE LEAD.

FOR BEST RESULTS USE OUTSIDE IN DIRECT SUNLIGHT.

THIS PRODUCT WILL NOT WORK IN CLOUDY LOCATIONS OR UNDER FLUORESCENT LIGHTS.
If at any time in the future you should need to dispose of this product please note that waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive)
43-032-303

COLOURS AND CONTENTS MAY VARY
MADE IN CHINA
FOR AU / NZ: IMPORTED FOR KMART STORES IN AUSTRALIA AND NEW ZEALAND.



How to Assemble

The instruction manual is child-friendly and please follow the steps as shown.

