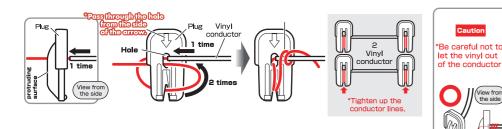


### $\bigcirc$ Get ready for the experiment!

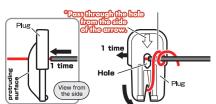
## Attaching the plug

 Pass the vinyl strips through the hole in the plug twice, and twist tightly so that it does not come loose.



 Pass the vinyl strips through the hole in the plug once, and twist tightly so that it does not come loose.

How to use plug/parallel plug and battery box

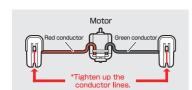


Insert the plug into the battery box.

Top View

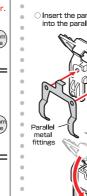
osition to ins

\*Pay attention to the direction



Series connection of batteries





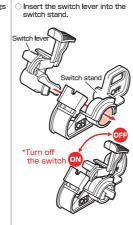
Parallel connection of batteries

Insert the plug into the parallel plug, and insert it into the battery box connected

of the plug and parallel plug.

Beware of short circuits

to the side.

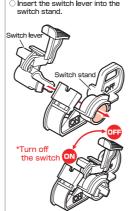


Introduction

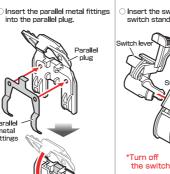
\*Do not tear off the parts

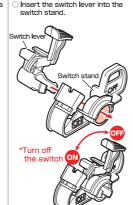
attached the frame by hand.

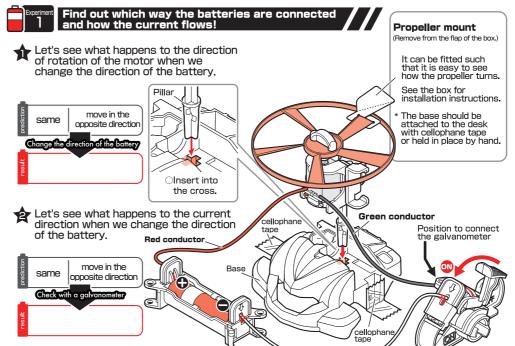
Cut them carefully with scissors

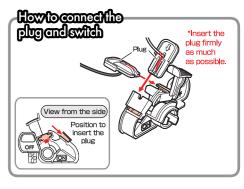


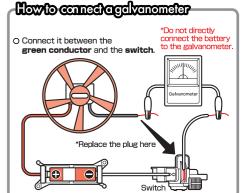
# Assembling parallel plugs











Please use manganese batteries for this material. Please make sure to remove the batteries after learning.

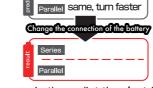


### Find out how strong the electric current is by changing how the batteries are connected!

Let's predict the motor speed when connected to 1 battery, as compared to using batteries in series and parallel connection.

★ Let's change the motor to a miniature

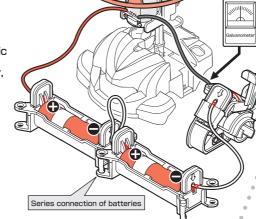
Series connection of batteries

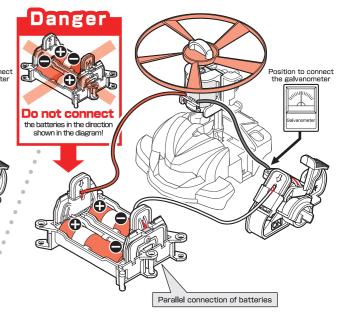


Series same, turn faster

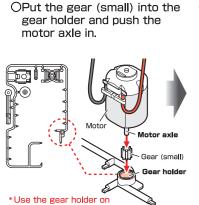
Let's predict the electric current strength when connected to 1 battery, as compared to using batteries in series and parallel connection.



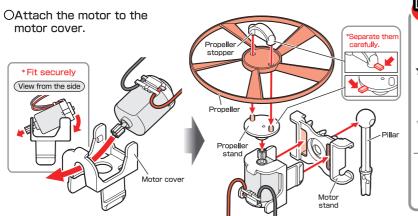


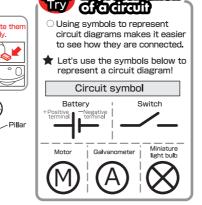


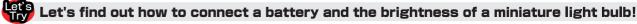




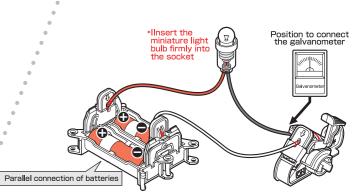
the frame where the parts



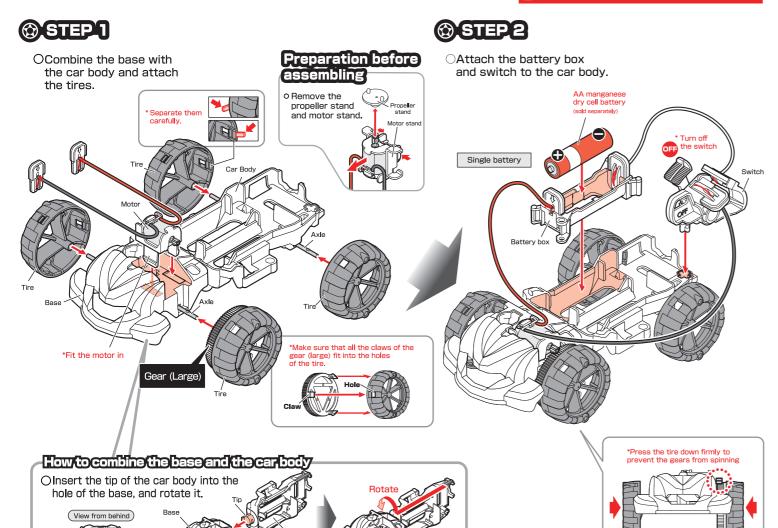


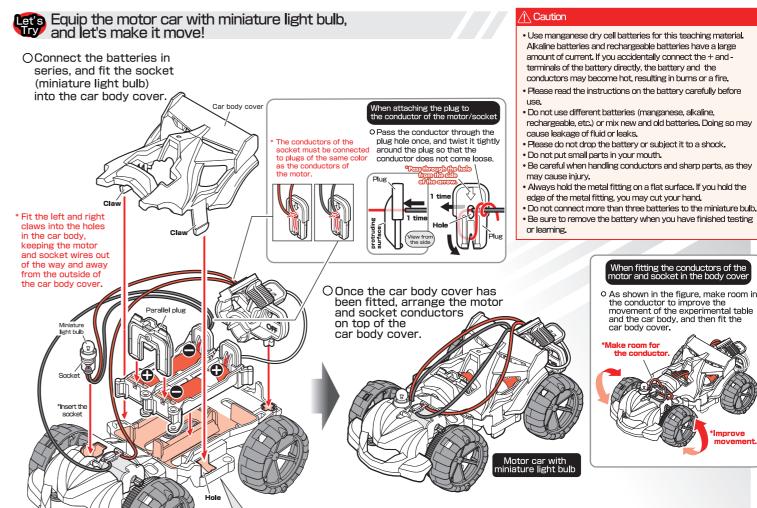


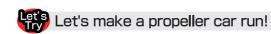
light bulb and compare the brightness.



KP211105R.E

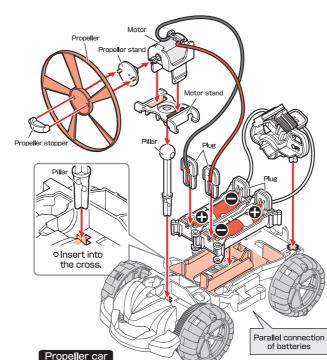






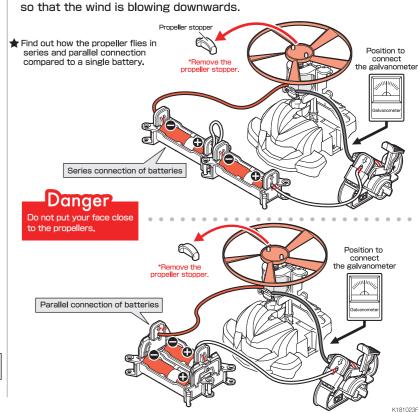
OAssemble by removing the motor and socket, and orientating the batteries and wire connections.

Parallel connection of batteries





Change the direction of the battery





### Let's check the strength of the electric current using a motor car!

Let's predict the electric current strength of the

using batteries in series and parallel connection.

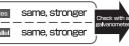
motor car when connected to 1 battery, as compared to

Let's predict the speed of the motor car when connected to 1 battery, as compared to using batteries in series and parallel connection.

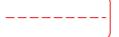
Series same, turn faster

Parallel same, turn faste







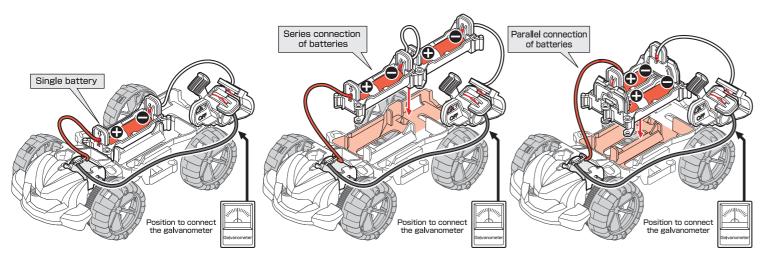






View from front

shown in the diagram!





- Be sure to remove the battery when you have finished testing



• Run the motor car in a large, safe area.

If the motor car hits a wall and stops, turn it around or switch it off immediately.

If the motor does not turn