

Four-wheel drive car



Introduction to four-wheel drive car

The real racing car has a cool appearance, top manufacturing technology, and super fast driving speed. It is a dream of many people to own it.

Now, let us make a toy racing car by ourselves, understand what materials and accessories are needed to make a toy racing car, and use our imagination to paint the car with cool color coatings.

Required production tools and self-provided materials

You need to prepare a small screwdriver, a small scissors, a lighter, and a pair of AA batteries. During the production process, a screwdriver is required to install the screws, and scissors need to be used to trim the cable tie. After the production is completed, a battery is required to make the produced model work normally.

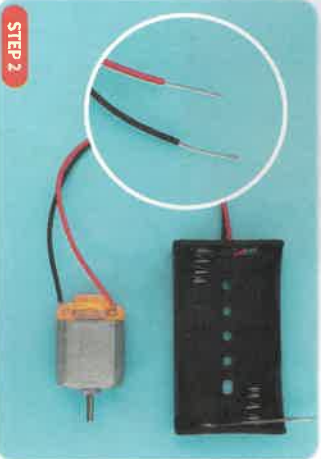
Precautions

- Hello kids! Please be careful when opening the material package to avoid sudden loss of small materials. Loss of small materials may cause your small production to fail!
- Children, please don't assemble small productions separately, making them alone may be dangerous, and you must make them with the company of your parents or teachers!
- If you want to easily make a small production model, you need to read the instructions carefully and follow the steps to make it. If you don't understand, you can ask your parents or teachers. Asking for help from others is also a kind of learning!

Do it with me

Four-wheel drive car

- Prepare small production materials.



- Refer to the figure above, connect the black wire of the battery box to the copper sheet under the motor, and connect the red wire of the battery box to the copper sheet above the motor. **Wiring method:** First twist the metal wire core into a spiral shape, then pass the metal wire core through the small hole of the motor wiring copper sheet, and twist it for 3-4 turns.

- Fix the side plate from the bottom of the chassis with 7mm screws.



- Refer to the figure above and fix the No. ④ top plate with 7mm screws.



Having trouble with production? See if the following problems have occurred

- 1. The car has no response after installing the battery and closing the knife switch**
 1. Check whether the wiring is connected properly.
 2. Check whether the battery is already low. It is recommended to replace the battery with a new one.
- 2. Turn on the knife switch and the car moves backwards**
 1. Check whether the wiring sequence on the motor is connected incorrectly, please refer to the wiring diagram in the manual for wiring.

Scientific knowledge

What is a racing car

A real race car is very different from an ordinary car. The race car represents the highest level of the automobile industry. The parts assembled on the race car are made of the best and most advanced parts. Every design of the car is the automobile industry. The performance of the extreme level, the speed of the car is also the fastest car of all types, this is the car.

A racing car contains a lot of physical knowledge, such as power, wind resistance, grip, CNC and so on. For example, increasing the air pressure of the engine can increase the output power of the engine. Better streamline design of the body can reduce wind resistance and make the car more energy-efficient. The wide tire design can make the tire grip of the car more stable and not easy to slip. The advanced numerical control system allows the car to adjust the parameters of each system according to the road conditions, so that the performance of the car can be brought to the extreme.



Think about

Describe what the car in your mind looks like?

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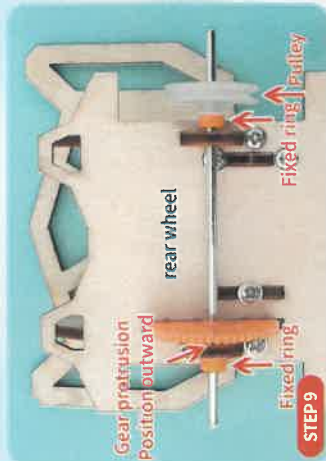
STEP 10

First put the wheel axle through the round hole of the frame, and then put the orange fixing ring and white pulley on both sides of the axle, and the protruding part of the pulley faces the orange fixing ring (the pulley is installed on the right).



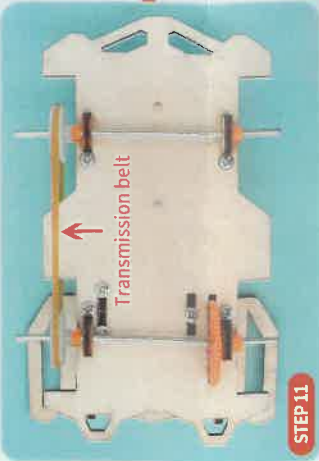
STEP 12

Install the wheel on the axle. After the wheel is installed, you need to check the rotation resistance. If it is too tight, please loosen the wheel until it can rotate easily.



STEP 9

First put the orange gear in the gear slot, then use the axle to pass through the frame hole and gear hole, and finally put the orange fixing ring and white pulley on both sides of the shaft, and the protruding part of the pulley faces the orange fixing ring (the pulley is installed on the right).



STEP 11

Install the drive belt on the white pulley.



STEP 13

The small racing car is finished! Install the battery, close the knife switch on the battery box, and the car can drive!
 How to use the knife switch of the battery box:
 1. When the knife is closed, the power is turned on,
 2. When the knife is opened, the power is turned off.