

About Battery

Important Note

Please prepare the right batteries and fully charge them before assembling.

Assembling the robot without right batteries will cause installation errors and damage the servos.

Required Battery

You need two batteries of the following type. They can be found on eBay.

The control board connected to the USB cable will not charge the batteries. So you also need a charger.

IMR 14500 3.7V rechargeable battery (Recommended)

IMR 14500 batteries are suitable for high drain devices. All of them meet the requirements.


We recommend IMR batteries with any brand. The following are examples:

Brand	Model	Picture
EFEET	IMR 14500	
NITECORE	NI14500A	

14500 3.7V rechargeable battery (Not recommended. Need to be modified)

General 14500 batteries are also work. However, most of them have protective board inside.

If a battery has protective board, its length (excluding the positive cap) will exceed 50mm. Examples:

Brand	Model	Picture
OLIGHT	ORB-145P07	
NITECORE	NI147	

The protective board prevents the battery from providing enough power. And it's too long to put in the battery holder. Therefore, it need to be removed.

Remove Protective Board

If your batteries have protective board, you should remove it.

The batteries can be charged and used properly after removal of the protective board. However, you may cannot get guaranteed and other after-sales services for the batteries anymore.

Please be careful when removing. Use plastic tools as far as possible to avoid short circuit. Your batteries may differ from those shown below.

Protective board on positive pole.

A battery with protective board on positive pole is shown below:

Brand	Model	Picture
OLIGHT	ORB-145P07	

Remove protective board as shown below:



After removing, please use tape to wrap the metal parts except the positive and negative pole, to avoid short circuit.



Protective board on negative pole.

A battery with protective board on negative pole is shown below:

Brand	Model	Picture
NITECORE	NI147	

Remove protective board as shown below:



After removing, please use tape to wrap the metal parts except the positive and negative pole, to avoid short circuit.

