

1/10 4WD ELECTRIC-POWERED BRUSHLESS MONSTER TRUCK

BS232R

FEATURES:

Length: 538mm

Width: 385mm

Height: 193mm



BS232R

ESC: 120A ESC Motor: KV2950

Instruction Manual

HIGHLIGHTS:

- 4 Wheel Drive System
- Ready Assemble Ready to Run
- High Performance KV: 2950 Type Brushless Motor, More Power!
- Brushless ESC Waterproof 120A
- 15Kg Waterproof Servo (Metal Gear)
- Tough Oil-Filled Gear Differentials
- Adjustable Front And Rear Suspension Arms
- Silicone Oil-Filled Big Bore Shocks With Threaded Bodies
- Full Set Of Metal-Sealed Ball Bearings
- Fit Any 17MM Hex Wheel
- Beval Pinion Diff Gears For Extra Durability
- Front Universal Dogbones, Scale Off-Road Wheels
- 2.4G Radio System (Waterproof Receiver)

⚠ SAFETY PRECAUTIONS

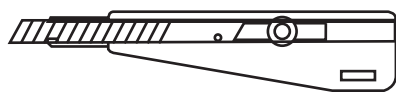
- This radio controlled racing vehicle is not a toy!
- This high-performance R/C vehicle is recommended for ages 14 and older.
- First-time builders should seek the advice of experienced modellers before commencing assembly.
- Take enough safety precautions prior to operating this vehicle.
You are responsible for this R/C vehicle's assembly and safe operation!

BS2500000401

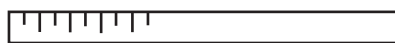
www.bsdracing.com

Required equipment for operation

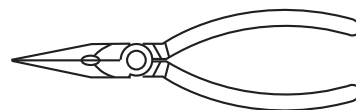
1. Tools required for building and maintenance:



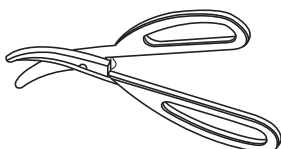
● Hobby knife



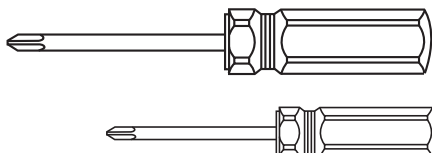
● Precision ruler



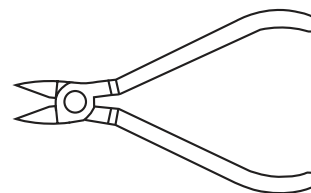
● Needle nose pliers



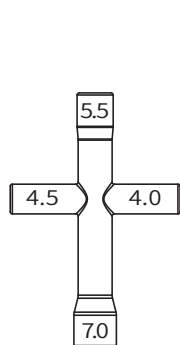
● Lexan scissors



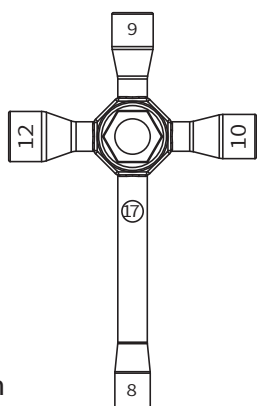
● Flat and Philips screwdriver



● Wire cutters



● Cross wrench



● Cross wrench



● CA glue&rubber cement



● Thread locking compound

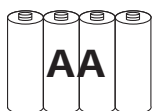


● Hex wrench

WARNING!

Do not use a power screw driver to install screws into nylon or plastic materials. The fast locking may heat up the screws being installed that may break the molded parts or strip the threads during installation.

2. Additional items needed for operation:



4pcs AA alkaline batteries for transmitter

IMPORTANT!

Check all the screws are tight before playing the vehicle!

Use thread lock on all screws that work loose.

Please read the instruction carefully before starting the assembly.

1. Please assemble and install this car without children's reach. As it includes small and sharp parts.
2. Do not run the car on public streets or highways. As it might cause serious accidents, personal injuries and property damage etc.
3. During the middle of racing and after operation, the engine and exhaust will become HOT. Therefore please do not touch them before cooling down.
4. Please make sure everyone is using different frequencies while racing the car in the same area.

2.4GHz radio instructions

Special symbols

Please pay attention to the following symbols, and read them carefully.



Danger: If the operator does not operate according to the instructions, it may lead to serious injuries, even mortal danger.



Warning: If the operator does not operate according to the instructions, it may lead to serious injuries, even mortal danger.



Attention: If the operator does not operate according to the instructions, it may lead to serious injuries, even mortal danger. but generally it will not cause serious injuries to the operator.

Safety guidelines

Don't drive the truck at night, bad weather such as rainy or thundering days. It will interfere the transmitter signal. Thereby it will cause out of control and unexpected accident.

Before you drive, please make sure the movement of servo corresponds with the direction of joysticks. If inconsistent, please adjust before drive.

You need to turn the throttle channel (ch2) and inching switch to the lowest before use. Then switch on the transmitter power, finally connect the receiver.

The sequence to shutdown is to turn off the receiver power first, and then the transmitter power.

Battery charging



If your transmitter, receiver use a lithium polymer, nickel-metal hydride rechargeable battery, you have to check it before use. If lack of electricity, it could cause inadequate control or out of control, resulting in accident. So please charge it immediately when the battery power is low.

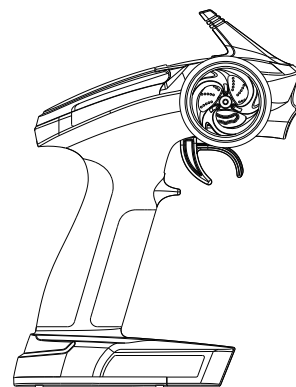
Switching system between system AF HDS and system AFHDS 2A

System switching: turn the steering wheel and press the “BIND” button when turn the transmitter on.

The current system is AFHDS if the green LED keeps flashing. Press the “B I N D” button to save the current system.

The current system is AFHDS 2A if the green LED flashes twice every time. Press the “BIND” button to save the current system.

Restart the transmitter, and the current system is what you saved before.

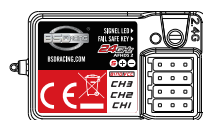


Transmitter specifications

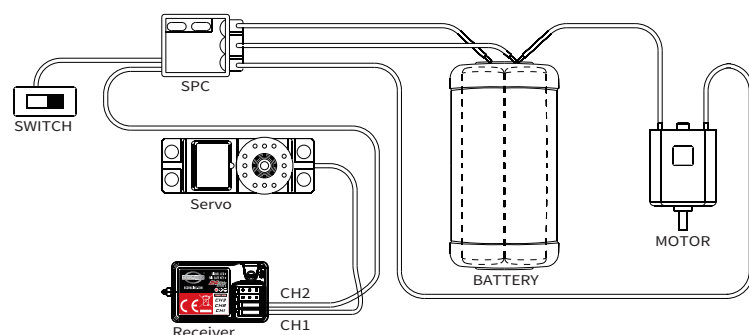
Channels: 2
Model type: car /boat
RF range: 2.405-2.475GHz
Bandwidth: 500KHz
Band: 141
RF power: less than 20 dBm
2.4G system: AFHDS2A and AFHDS
Code type: GFSK
Sensitivity: 1024
Low voltage warning: less than 4.2V
DSC port: 3.5mm ; output: PPM
ST range: 70 L:35 R:35
TH range: 45 F:35 B:15
Charger port: no
ANT length: 26mm
Weight: 239g
Power: 6V DC 1.5AA*4
Display mode: LED indicator
Size: 210*95*160mm
Color: black

Receiver specifications

Channels: 3
Model type: car /boat
RF range: 2.405-2.475GHz
Bandwidth: 500KHz
Band sum: 141
RF receiver sensitivity: -98dBm
2.4G system: AFHDS 2A
Code type: GFSK
Sensitivity: 1024
Power: 4.0-6.5V DC
ANT length: 26mm
Weight: 5g
Size: 35*22*12mm
Color: black
Certificate: CE FCC



Installation when a motor controller is used



Remark: Place the receiver antenna upright and perpendicular to the horizontal plane. Keep the receiver antenna away from any metal objects to ensure max sensitivity. (See pic1)

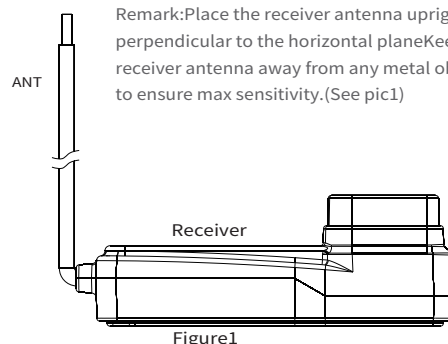
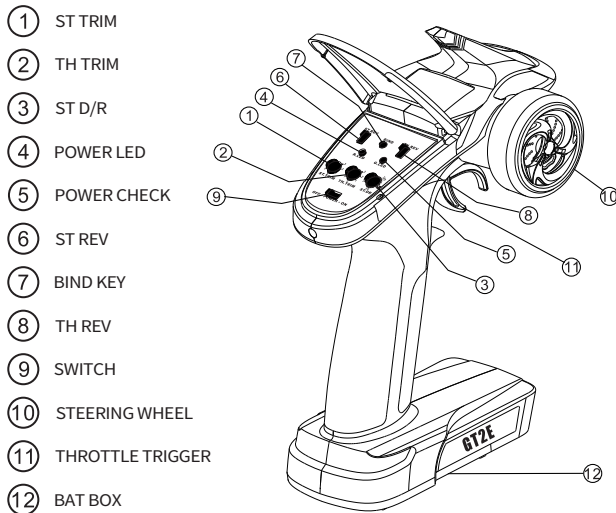


Figure1

Each part of the transmitter



Failsafe Instruction

1.Function

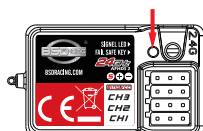
Failsafe aims to prevent out-of-control driving of RC car or RC boat. If the Receiver is not able to receive any signal, from the control to throttle, the parameter of throttle on receiver will turn back to its original setting.

2.Setting

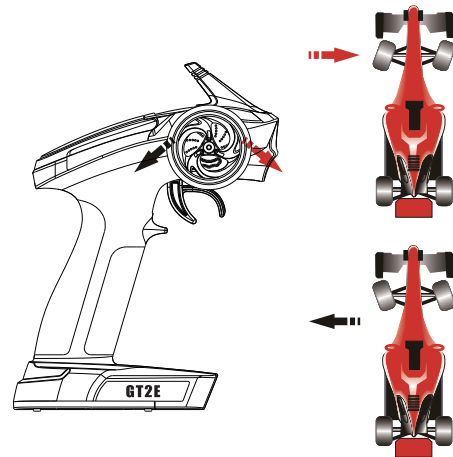
- Turn on the Transmitter switch;
- Turn on the Receiver switch. the LED will be lighting;
- Adjust Transmitter's Throttle, make the car/boat to stop or flameout, then keep still.
- Press the "Setting" button on Receiver (as the pic below). the LED will be flashing, then stop after 3 seconds around, which means setting finished.

3.Testing

- Turn on the Transmitter switch;
- Turn on the Receiver switch;
- Turn off the transmitter switch;
- Servo of throttle will turn back to its original setting automatically;
- Setting is successful if above procedures finished completely.



Steering control



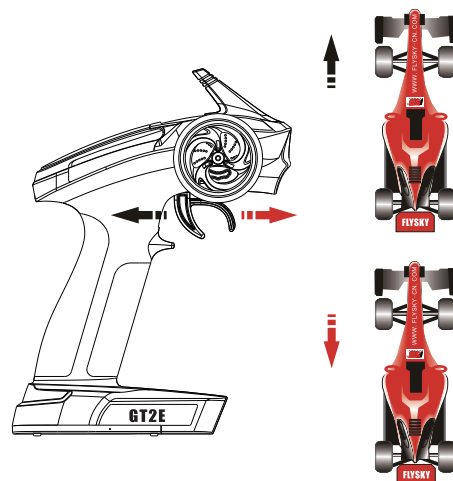
Function Introduction:

This function is to control the direction. when the steering turn to right then the front wheel will turn to right (as picture), when the steering turn to left then the front wheel will turn to left (as picture).

Operation Method:

Adjust the dual rate of the steering by adjusting the D/R knob.

Throttle control



Function Introduction:

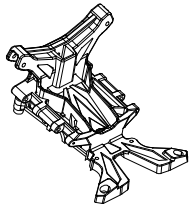
This function is to control the throttle speed. when pull the throttle trigger back. car will accelerate forward (see the picture), when push the throttle trigger. the car will put on the brakes or double ring astern (according to the different ESC) (see the picture).

Operation Method:

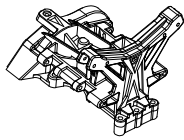
To control it by pushing and pulling back the throttle trigger after power on.

[illegible]

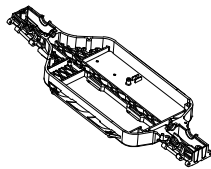
BS232R PARTS



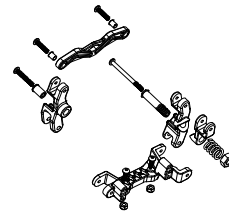
BS230-001 Fr. Diff cover



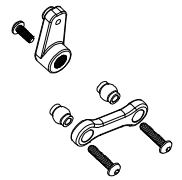
BS230-002 Rr. Diff cover



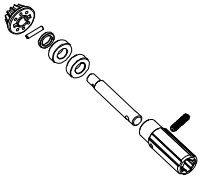
BS230-003 Main chassis



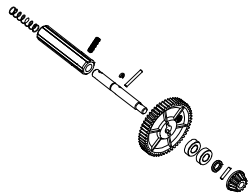
BS230-004 Servo saver



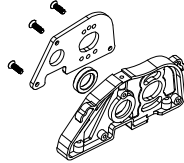
BS230-005 Servo link unit



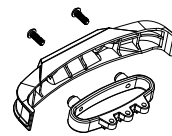
BS230-006 Master Gear Unit



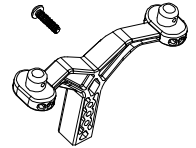
BS230-007 Spur Gear unit



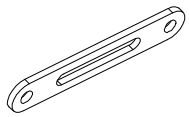
BS230-008 Motor unit plate



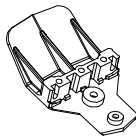
BS230-009 Fr. Bumper unit



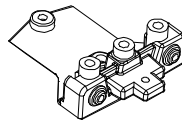
BS230-010 Body mount



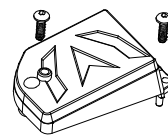
BS230-011 Hingepin Brace



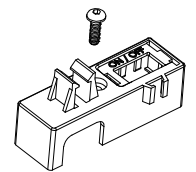
BS230-012 Front chassis



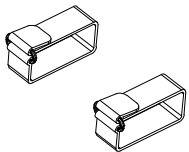
BS230-013 Rear Chassis



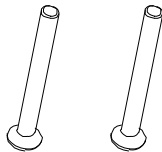
BS230-014 Receiver case



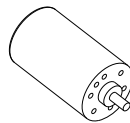
BS230-015 Wire mount



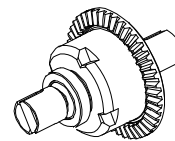
BS230-016 Battery Belt



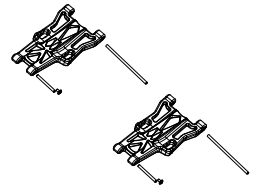
BS230-019
B head hex screws HM4*40/6 pcs



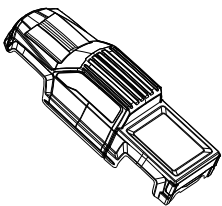
BS230-020
KV2950 Brushless motor



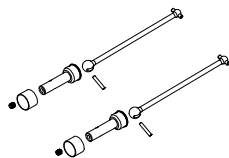
BS232-001 Diff gear Unit



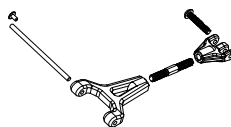
BS232-002
Lower Suspension Arm



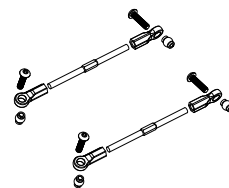
BS232-003 BODY



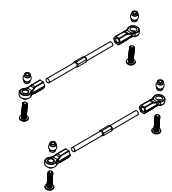
BS232-004
Transverse Drive Shaft Set



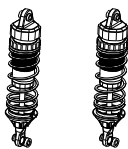
BS232-005 Upper Arm Unit



BS232-006 Steering Linkage



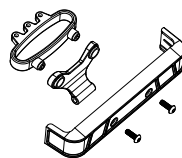
BS232-007
Rr. Steering linkage set



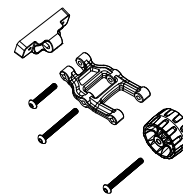
BS232-008 Shock Absorber Unit



BS232-009 Pin 3*65
BS810-035 Pin 3*81



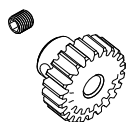
BS232-010 Rear Bumper



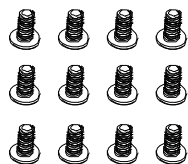
BS232-011 Wheelie bar



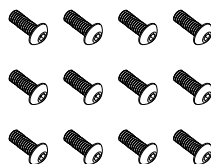
BS232-012 Center shaft



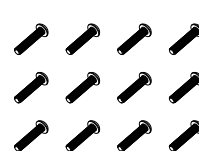
BS232-013 13T motor gear



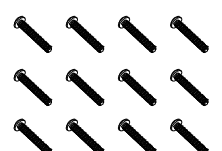
BS401-048
HM3*6mm B-Head Hex Screw
12PCS



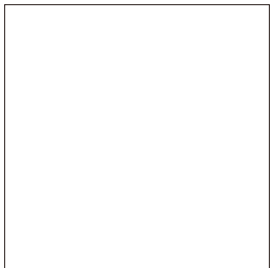
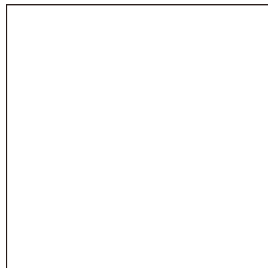
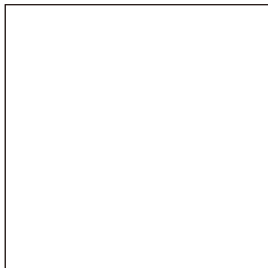
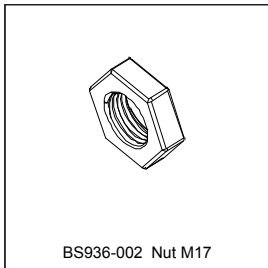
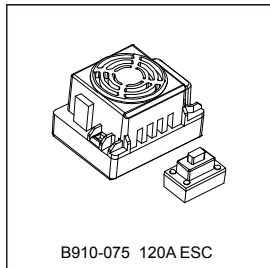
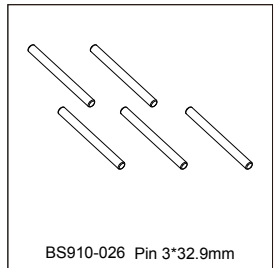
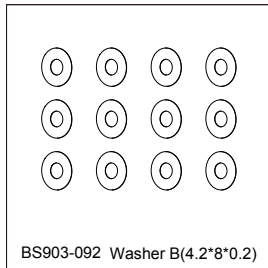
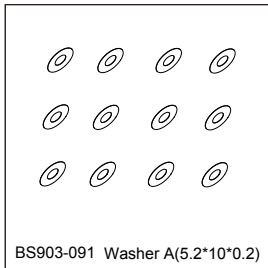
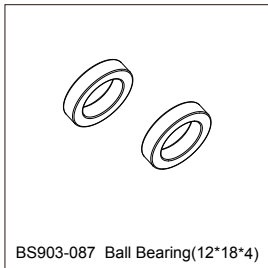
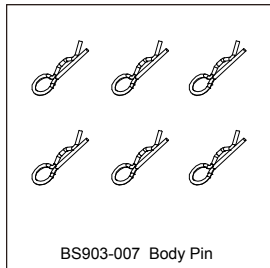
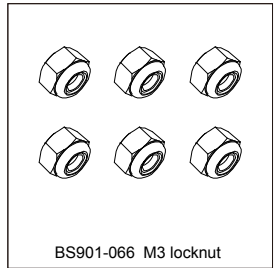
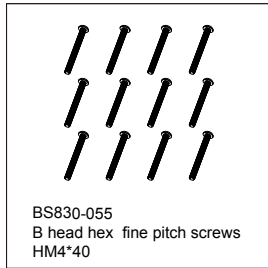
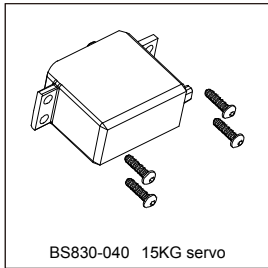
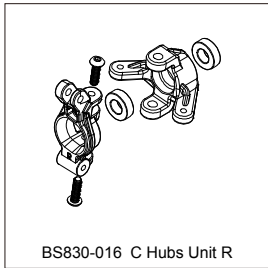
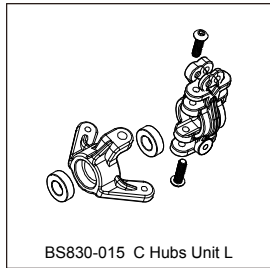
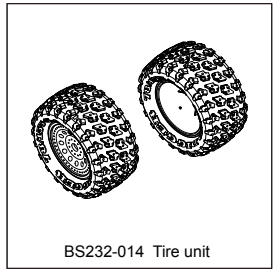
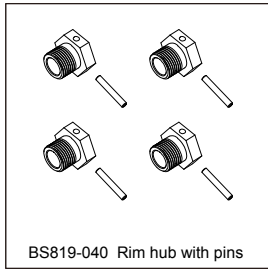
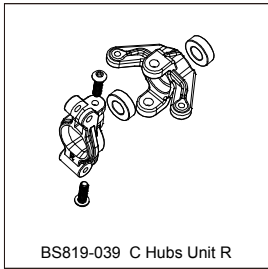
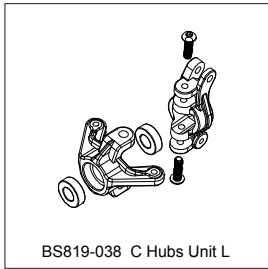
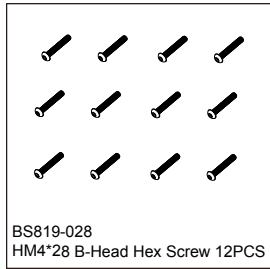
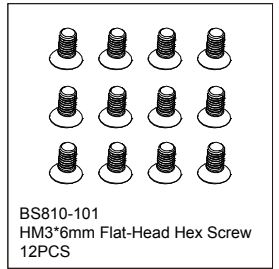
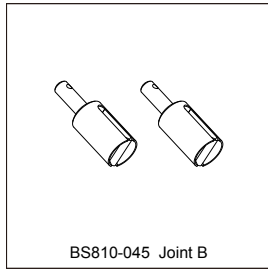
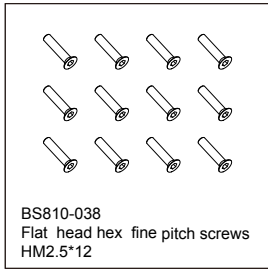
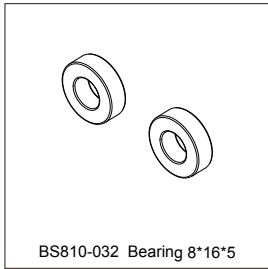
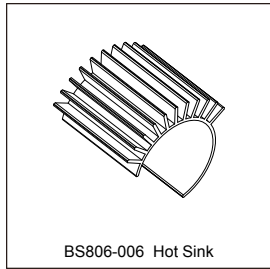
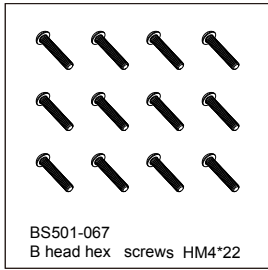
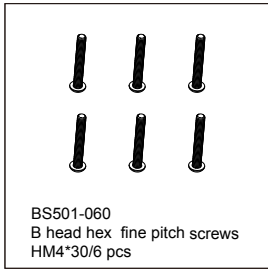
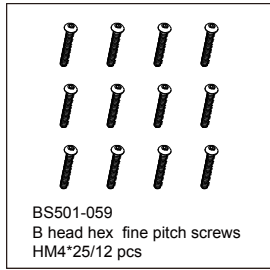
BS501-056
B head hex fine pitch screws
HM4*12



BS501-057
B head hex fine pitch screws
HM4*16



BS501-058
B head hex fine pitch screws
HM4*20/12 pcs



Precautions and Warnings for Use and Handling of Lithium Polymer Battery

PREFACE

In order to get the optimum performance and reliable safety, consumers shall read and take the following instructions and precautions when use and handle the Lithium Polymer (Li-Po) batteries.

1. CHARGING

1-1 Charging current should not be more than the maximum charge current specified in the Product Specification (normally 0.5C-1.0C or lower). Charging with higher current may damage the cell or even lead to safety problem, e.g. overheating or leakage.

1-2 Charging voltage shall not be more than that specified in the Product Specification (4.2V/cell). 4.25V is the maximum charging voltage for each cell. Never charge the battery in series and be sure that each single cell has a separated charging circuit with a max. charging voltage of 4.25V. Or the battery may be overcharged, and lead to fire or explosion. The user is fully responsible to the result of misusing the battery.

1-3 Charging temperature: The cell should be charged within the range of temperatures specified in the Product Specification. Stop charging immediately when the surface temperature of the battery is over 50 °C .

1-4 Reverse charging: Please make sure the polarities of cells are connected properly before charging. Reverse charging is strictly prohibited. Reverse charging cannot charge the cells but will deteriorate their charging/discharging and safety characteristics, or even lead to fire or explosion.

2. DISCHARGING

2-1 Discharging current: The cell shall be discharged at the current no more than the maximum discharging current specified in the Product Specification. Over current discharging may damage the battery and cause over-heat.

2-2 Operation temperature: Use the battery within the temperature range specified in the Product Specification. Stop using when temperature is over 70 °C .

2-3 Over-discharging: Over-discharging will deteriorate the cell's performance and characteristics. Do not over-discharge a battery below 2.75V/cell.

3. STORAGE

If you intend to keep the battery for a long time (3 months or longer), it is strongly recommended that the battery shall be stored under the environment with temperature 10-25 °C , low humidity and without corrosive gas. The battery should be charged every six months to ensure that each cell's storage voltage is 3.6-3.9V.

OTHERS

>The aluminum packing foil is very soft that it will be easily left scratches. Please do not hit the cell with any sharp edge parts.

>Don't fall, hit or bend the battery. It may cause fire or explosion.

>Short circuit the battery is strictly prohibited, it may damage the battery seriously.

>Never disassemble the battery. It may cause fire.

>Never dispose of the battery in fire. It is very dangerous and strictly prohibited.

>To place the battery into liquid such as water is strictly prohibited.

>Always remove battery from car when charging. Charging the battery in a car is forbidden and is dangerous.

>Avoid vibration, shock or extruding the battery. Handle carefully when moving it.



www.bsdracing.com

+86 0755-2748 5695

+86 0755-2769 4720

info@bsdracing.com

[Lisa.bsdracing](#)

350878106

4th Fl,5th Bldg,Changxing High Tech Ind Zone,Wan' an Rd,Shajing,Bao' an Dist,Shenzhen,China 518104