

# REDCAT-RACING

*1/10 3WD ELECTRIC-POWERED 3 WHEELS CAR  
MODEL: S-TRYK-R*



*Specification:*

*Length: 388mm*

*Width: 198mm*

*Height: 124mm*

*ESC: 60A ESC*

*Radio: 2.4G radio system*

*Motor: KV4300 Brushless motor*

*Battery: 7.4V 3500mAh Li-po battery*

## Instruction Manual

### Highlights:

- 3 wheel drive system
- Ready assemble ready to run
- Belt drive (Bando belts from Japan)
- Full ball bearing
- New designed , the body can change any color you love .

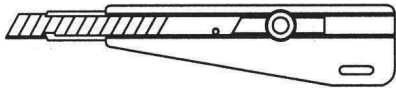
### ⚠ SAFETY PRECAUTIONS

- This radio controlled racing truck 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!

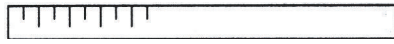
**[www.redcatracing.com](http://www.redcatracing.com)**

# Required equipment for operation

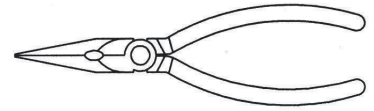
## 1. Tools required for building and maintenance:



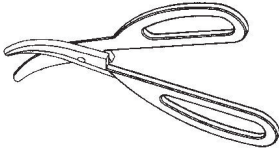
● Hobby knife



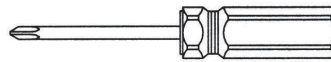
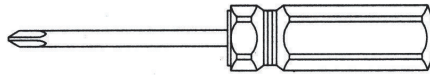
● Precision ruler



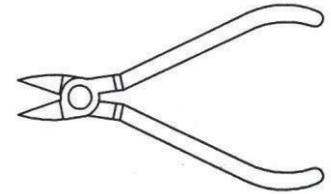
● Needle nose pliers



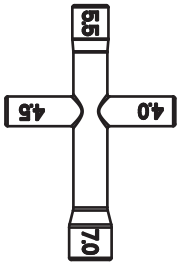
● Lexan scissors



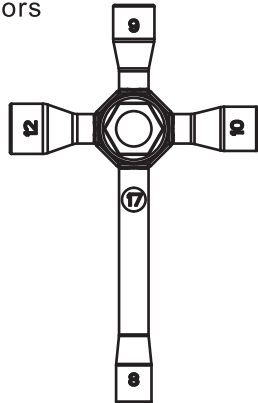
● Flat and Phillips screwdriver



● Wire cutters



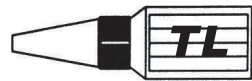
● Cross wrench



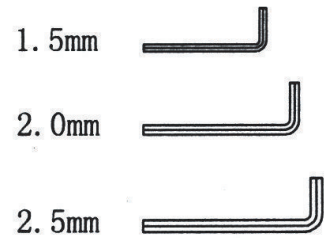
● Cross wrench



● CA glue&rubber cement



● Thread locking compound

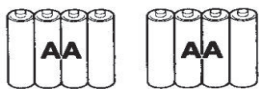


● Hex wrench

## 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:



8 pcs 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.

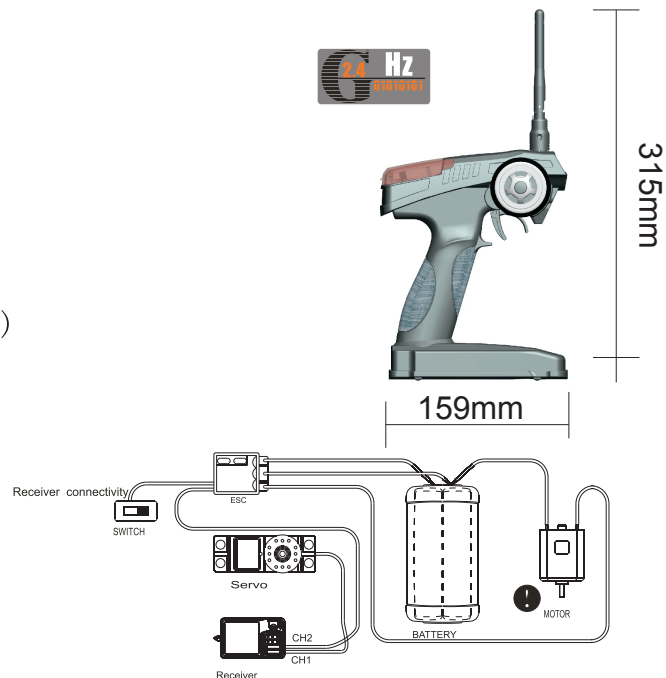
If the above operations are reversed, it might lead to out of control and cause accident.

### Battery charging

 If your transmitter, receiver use a nickel-cadmium, 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.

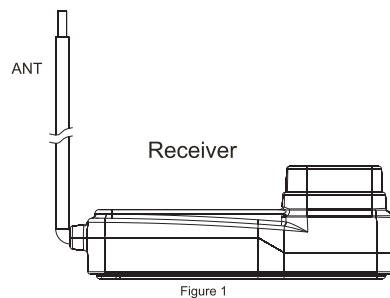
# Transmitter specifications

Channels: 2 channels  
 Model Type: Car/boat  
 RF Power: Less than 20dbm  
 Modulation: GFSK  
 Code Type: Digital  
 Sensitivity: 1024  
 Low Voltage Warning: Yes (less than 9V)  
 DSC Port: Yes (3.5mm)  
 Charger Port: Yes  
 Power: 12vdc (1.5AA\*8)  
 Weight: 328g  
 ANT Length: 26mm  
 Size: 159\*99\*315mm  
 Color: Black  
 Certificate: CE FCC



## Note:

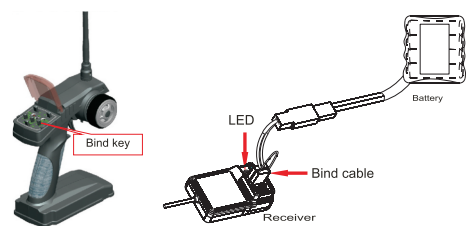
Place the antenna of the receiver vertically, and do not have contact with metal component. (See Figure1)



## Binding:

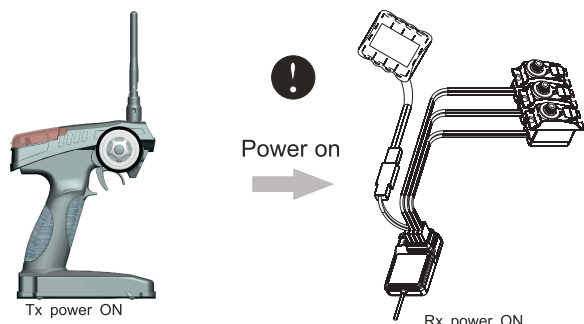
The transmitter and receiver should be already bound by the factory by default .

1. Install batteries into the transmitter and shut it down.
2. Insert the bind cable on to the bind channel (Ch3) on the receiver. (Figure.2)
3. Connect the receiver battery to the VCC port on the receiver .The two LEDs on the receiver should flash rapidly, indicating the receiver is in binding state .
4. Press and hold the bind button on the transmitter , and then turn on the transmitter.
5. The LED on the receiver should stop flashing when the binding process completed (about 5 second)
6. Release the bind button on the transmitter , remove the bind cable from the receiver.
7. Install the servo and then test.
8. If the test succeeds , then remove the power supply from the VCC port.
9. The binding process completed.



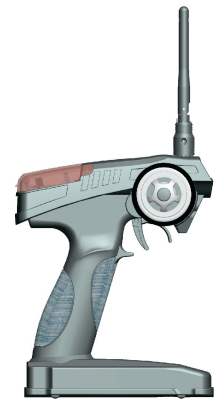
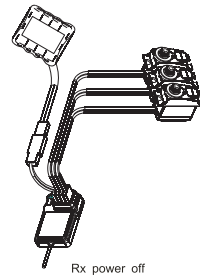
## Turn On:

1. Turn on the transmitter.
2. Connect the power supply of the receiver.
3. Receiver LED light should turn solid.
4. Ready to use.

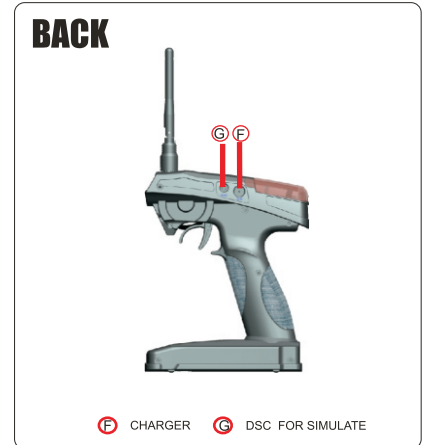
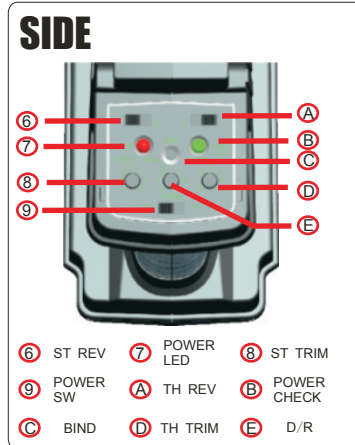
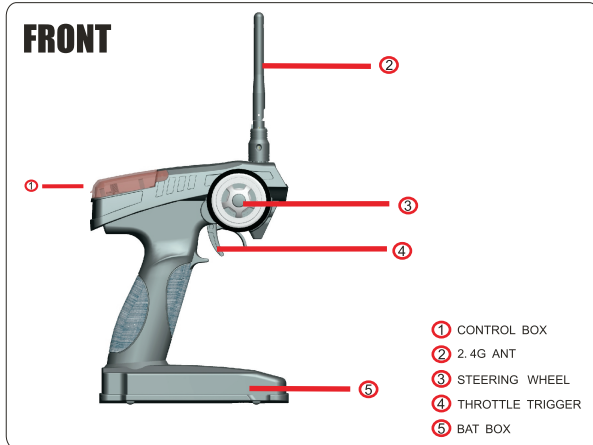


## Shut Down:

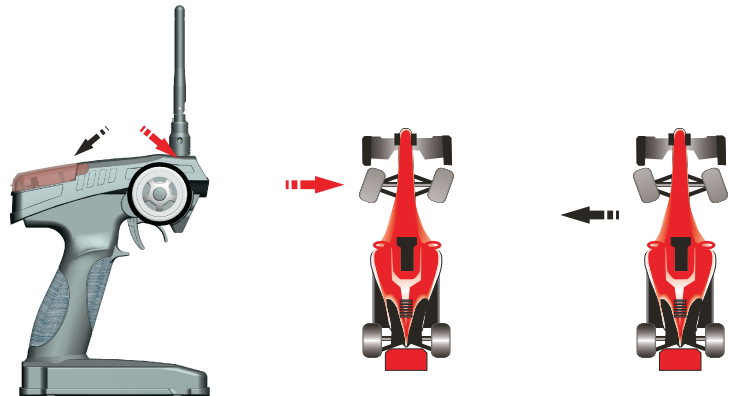
1. Disconnect the receiver's power supply.
2. Turn off the transmitter .



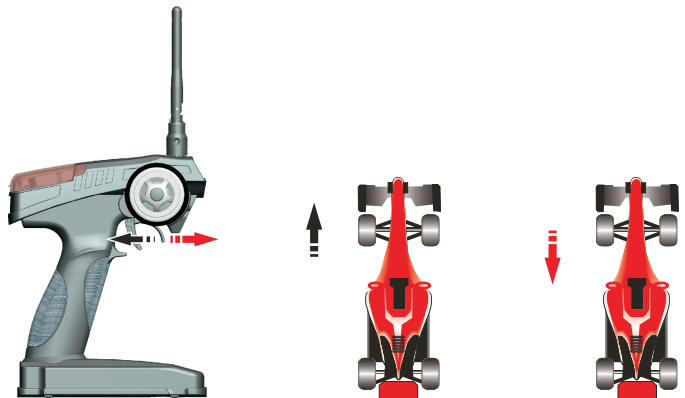
## Transmitter Functions:



This function is to control the direction of the vehicle



This function is to control the throttle speed of the vehicle



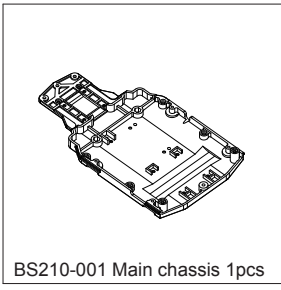
# PARTS LIST

## S-TRYK-R Brushless

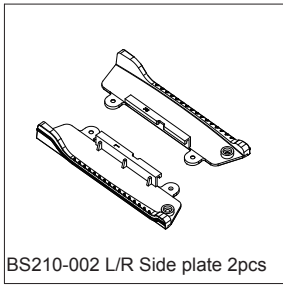
BS210-001	Main chassis	1PCS
BS210-002	L/R Side plate	2PCS
BS210-003	FR L/R wheel tire	2PCS
BS210-004	RR wheel tire	1PCS
BS210-005	Body support ASSY	1PCS
BS210-006	Body set	1PCS
BS210-007	FR bumper	1PCS
BS210-008	Battery holder	1PCS
BS210-009	L/R battery cover	2PCS
BS210-010	L/R exhaust pipe	4PCS
BS210-011	FR belt	1PCS
BS210-012	RR belt	1PCS
BS210-013	FR shock stay	1PCS
BS210-014	FR wheel fender(L/R)	2PCS
BS210-015	Steering arm ASSY / L	1PCS
BS210-016	Steering arm ASSY / R	1PCS
BS210-017	Motor support set	1PCS
BS210-018	7.4V Li-Po battery	1PCS
BS210-019	RR belt driven gear	1PCS
BS210-020	Pagani wheel hub	2PCS
BS210-021	RR belt adjustor	1PCS
BS210-022	Motor support holder	1PCS
BS210-023	Doll driver	1PCS
BS205-003	Diff. Box Holder L/F	2PCS
BS205-004	Suspension Arm Mount Block Set	3PCS
BS205-005	Diff. Gearbox Unit	1PCS
BS205-006	Diff. gearbox Cover Assembly	1PCS
BS205-007	Swing arm pin 3*45	5PCS
BS205-012	M4 Flange Nut	6PCS
BS205-013	Shock Absorber Unit	2PCS
BS205-014	Screw HM3*15	12PCS
BS205-015	Suspension Arm Linkage Set	4PCS
BS205-017	Steering Linkage Set	2PCS
BS205-018	Fr. Axle W/Pin	1PCS
BS205-019	Suspension Arm Pin-Short	10PCS
BS205-020	Fr. Suspension Unit	2PCS
BS205-022	steering saver unit	1PCS
BS205-023	servo unit	1PCS
BS205-025	Fr.Drive Belt Adjusting Unit	1PCS
BS205-026	Fr.Upper Deck	1PCS
BS205-029	Motor	1PCS
BS205-030	Motor gear	1PCS
BS205-031	Diff. spur gear	1PCS
BS205-035	60A ESC	1PCS
BS205-041	Angle Gauge Block/ Washer Set	12PCS
BS205-042	Flange bearing	2PCS
BS205-043	Ball screw 4.7*12	6PCS
BS205-044	Ball screw 4.7*17	6PCS
BS205-045	Diff. spur 80T	1PCS
BS205-046	17T Center Pulley	2PCS
BS502-022	B head hex. screw HM3*10	12PCS
BS502-023	B head hex. screw HM3*12	12PCS
BS502-026	B head hex. screw HM3*8	12PCS
BS901-046	Rolling bearing 4*8*3	2PCS
BS903-086	Rolling bearing 5*10*4	2PCS
BS903-093	M4 nylon lock nut	6PCS
BS701-046	Body clip	6PCS
B7053	Transmitter	1PCS
B7054	Receiver	1PCS

## S-TRYK-R

BS210-001	Main chassis	1PCS
BS210-002	L/R Side plate	2PCS
BS210-003	FR L/R wheel tire	2PCS
BS210-004	RR wheel tire	1PCS
BS210-005	Body support ASSY	1PCS
BS210-006	Body set	1PCS
BS210-007	FR bumper	1PCS
BS210-008	Battery holder	1PCS
BS210-009	L/R battery cover	2PCS
BS210-010	L/R exhaust pipe	2PCS
BS210-011	FR belt	1PCS
BS210-012	RR belt	1PCS
BS210-013	FR shock stay	1PCS
BS210-014	FR L/R fender	2PCS
BS210-015	Steering arm ASSY / L	1PCS
BS210-016	Steering arm ASSY / R	1PCS
BS210-017	Motor support set	1PCS
BS211-001	7.2V Ni-MH battery	1PCS
BS210-019	RR belt driven gear	1PCS
BS210-020	Pagani wheel hub	2PCS
BS210-021	RR belt adjustor	1PCS
BS210-022	Motor support holder	1PCS
BS210-023	Doll driver	1PCS
BS205-003	Diff. Box Holder L/F	2PCS
BS205-004	Suspension Arm Mount Block Set	3PCS
BS205-005	Diff. Gearbox Unit	1PCS
BS205-006	Diff. gearbox Cover Assembly	1PCS
BS205-007	Swing arm pin 3*45	5PCS
BS205-012	M4 Flange Nut	6PCS
BS205-013	Shock Absorber Unit	2PCS
BS205-014	Screw HM3*15	12PCS
BS205-015	Suspension Arm Linkage Set	4PCS
BS205-017	Steering Linkage Set	2PCS
BS205-018	Fr. Axle W/Pin	1PCS
BS205-019	Suspension Arm Pin-Short	5PCS
BS205-020	Fr. Suspension Unit	2PCS
BS205-022	Steering saver unit	1PCS
BS203-001	Servo unit	1PCS
BS205-025	Fr.Drive Belt Adjusting Unit	1PCS
BS205-026	Fr.Upper Deck	1PCS
BS203-002	RC 540 Brushed Motor	1PCS
BS205-030	Motor gear	1PCS
BS205-031	Diff. spur gear	1PCS
B7003	1/10 Brushed ESC	1PCS
BS205-041	Angle Gauge Block/ Washer Set	12PCS
BS205-042	Flange bearing	2PCS
BS205-043	Ball screw 4.7*12	6PCS
BS205-044	Ball screw 4.7*17	6PCS
BS205-045	Diff. spur 80T	1PCS
BS205-046	17T Center Pulley	2PCS
BS502-022	B head hex. screw HM3*10	12PCS
BS502-023	B head hex. screw HM3*12	12PCS
BS502-026	B head hex. screw HM3*8	12PCS
BS901-046	Rolling bearing 4*8*3	2PCS
BS903-086	Rolling bearing 5*10*4	2PCS
BS903-093	M4 nylon lock nut	6PCS
BS701-041	Body clip	6PCS
B7053	Transmitter	1PCS
B7054	Receiver	1PCS



BS210-001 Main chassis 1pcs



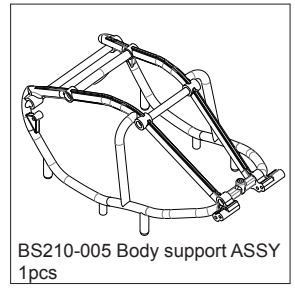
BS210-002 L/R Side plate 2pcs



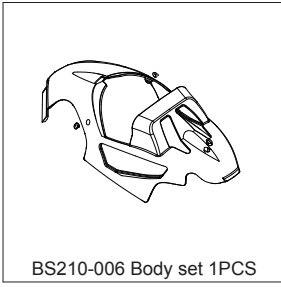
BS210-003 FR L/R wheel tire 2pcs



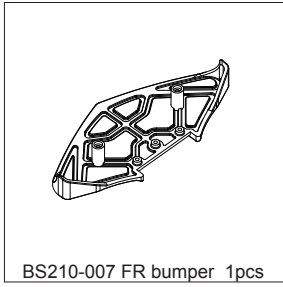
BS210-004 RR wheel tire 1pcs



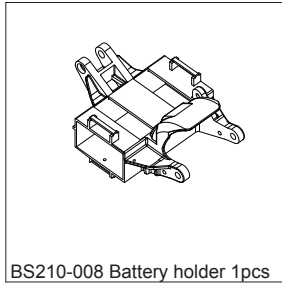
BS210-005 Body support ASSY 1pcs



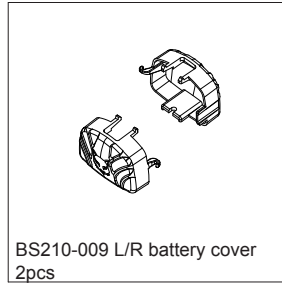
BS210-006 Body set 1PCS



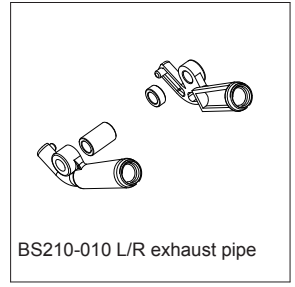
BS210-007 FR bumper 1pcs



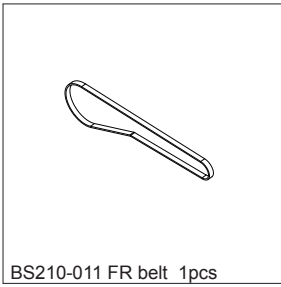
BS210-008 Battery holder 1pcs



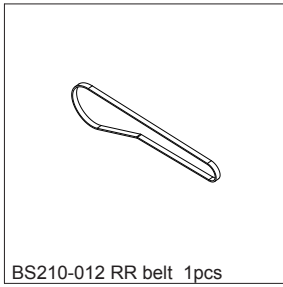
BS210-009 L/R battery cover 2pcs



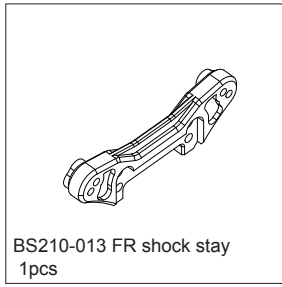
BS210-010 L/R exhaust pipe ASSY / L 1pcs



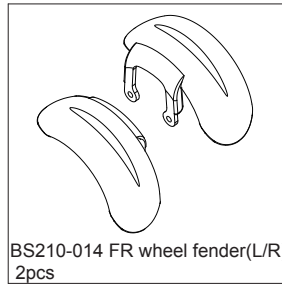
BS210-011 FR belt 1pcs



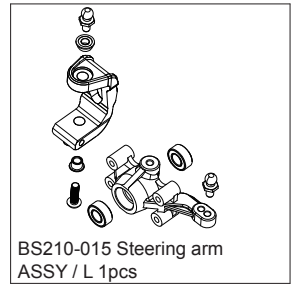
BS210-012 RR belt 1pcs



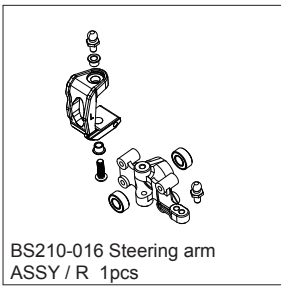
BS210-013 FR shock stay 1pcs



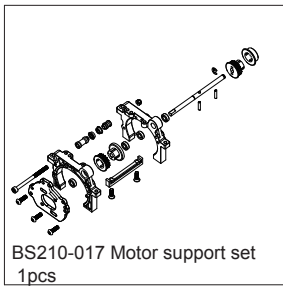
BS210-014 FR wheel fender(L/R) 2pcs



BS210-015 Steering arm ASSY / L 1pcs



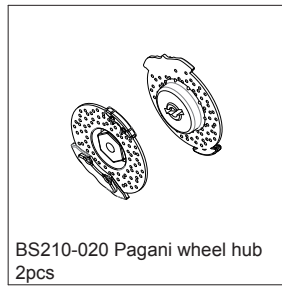
BS210-016 Steering arm ASSY / R 1pcs



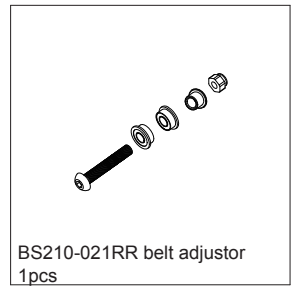
BS210-017 Motor support set 1pcs



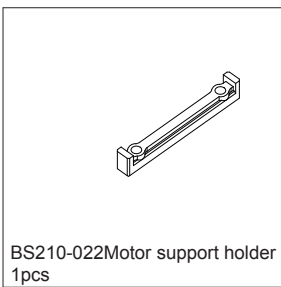
BS210-019 RR belt driven gear 1pcs



BS210-020 Pagani wheel hub 2pcs



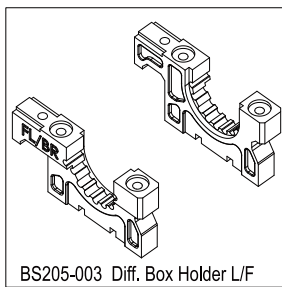
BS210-021 RR belt adjustor 1pcs



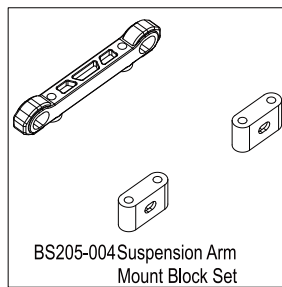
BS210-022 Motor support holder 1pcs



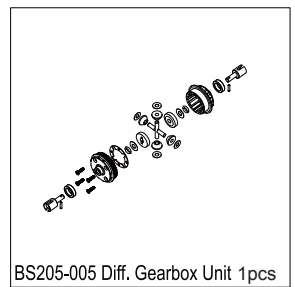
BS210-023 Doll driver 1pcs



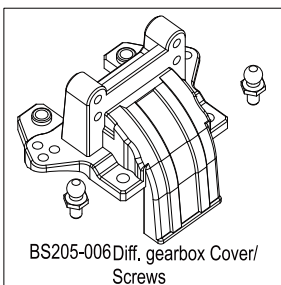
BS205-003 Diff. Box Holder L/F



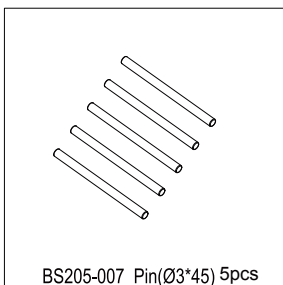
BS205-004 Suspension Arm Mount Block Set



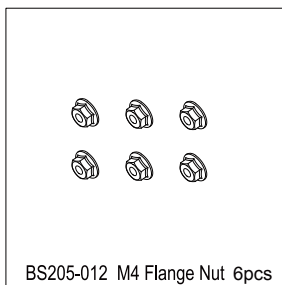
BS205-005 Diff. Gearbox Unit 1pcs



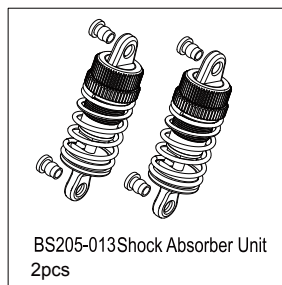
BS205-006 Diff. gearbox Cover/ Screws



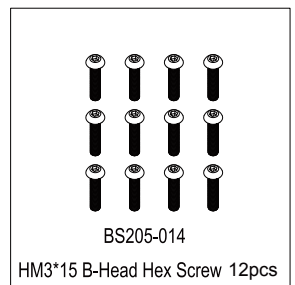
BS205-007 Pin(Ø3\*45) 5pcs



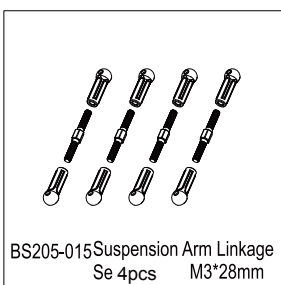
BS205-012 M4 Flange Nut 6pcs



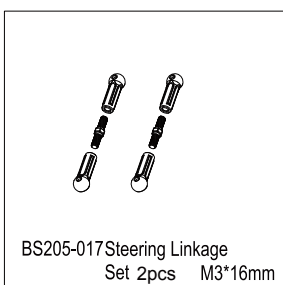
BS205-013 Shock Absorber Unit 2pcs



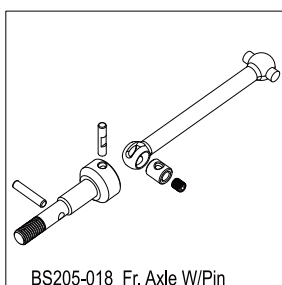
BS205-014 HM3\*15 B-Head Hex Screw 12pcs



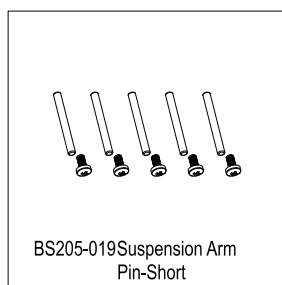
BS205-015 Suspension Arm Linkage Set 4pcs M3\*28mm



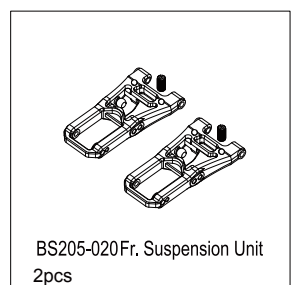
BS205-017 Steering Linkage Set 2pcs M3\*16mm



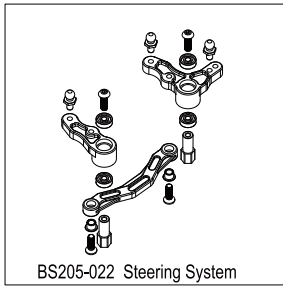
BS205-018 Fr. Axle W/Pin



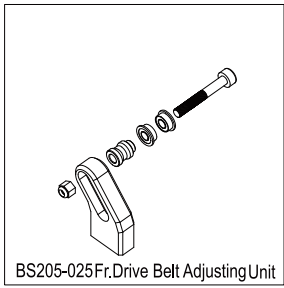
BS205-019 Suspension Arm Pin-Short



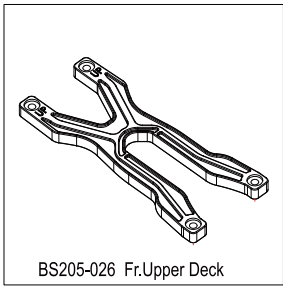
BS205-020 Fr. Suspension Unit 2pcs



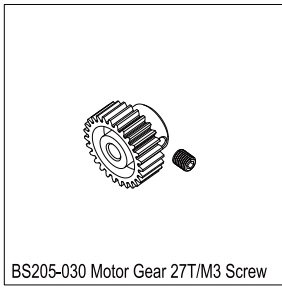
BS205-022 Steering System



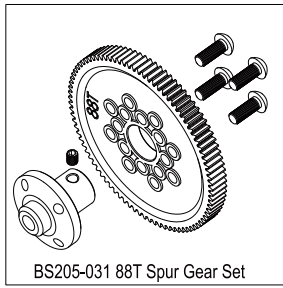
BS205-025 Fr. Drive Belt Adjusting Unit



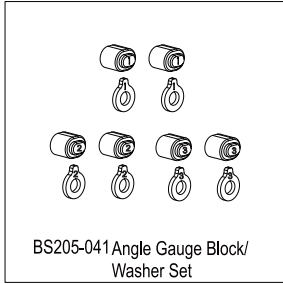
BS205-026 Fr. Upper Deck



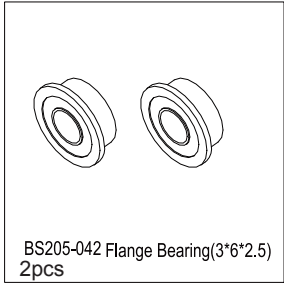
BS205-030 Motor Gear 27T/M3 Screw



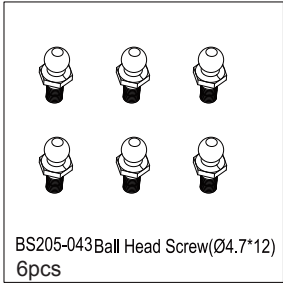
BS205-031 88T Spur Gear Set



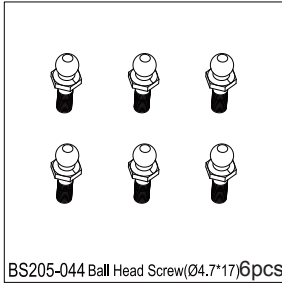
BS205-041 Angle Gauge Block/Washer Set



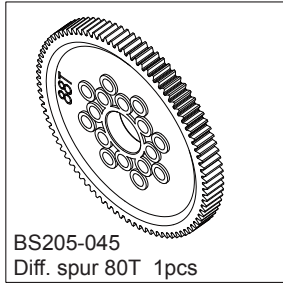
BS205-042 Flange Bearing(3\*6\*2.5) 2pcs



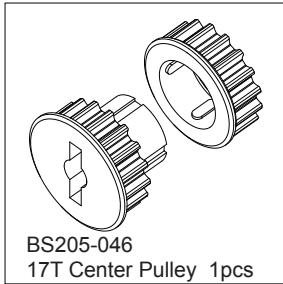
BS205-043 Ball Head Screw(Ø4.7\*12) 6pcs



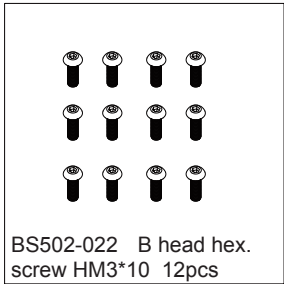
BS205-044 Ball Head Screw(Ø4.7\*17) 6pcs



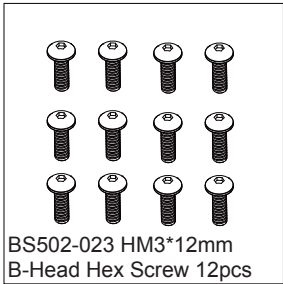
BS205-045 Diff. spur 80T 1pcs



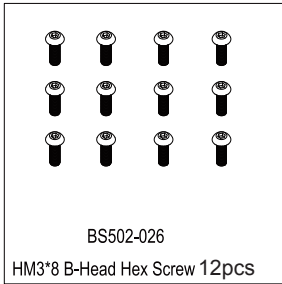
BS205-046 17T Center Pulley 1pcs



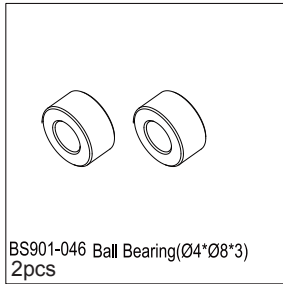
BS502-022 B head hex. screw HM3\*10 12pcs



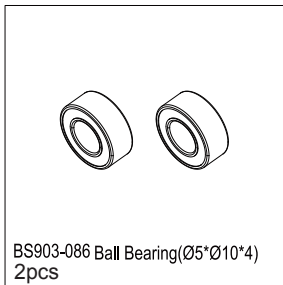
BS502-023 HM3\*12mm B-Head Hex Screw 12pcs



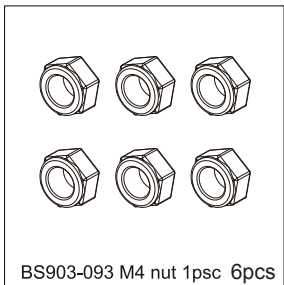
BS502-026 HM3\*8 B-Head Hex Screw 12pcs



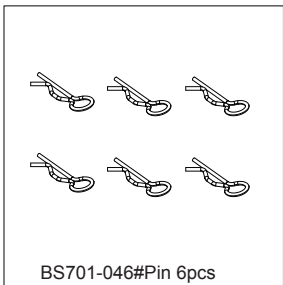
BS901-046 Ball Bearing(Ø4\*Ø8\*3) 2pcs



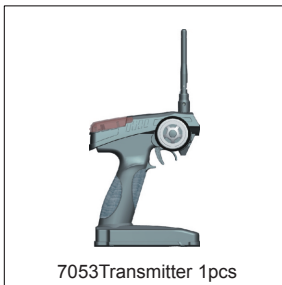
BS903-086 Ball Bearing(Ø5\*Ø10\*4) 2pcs



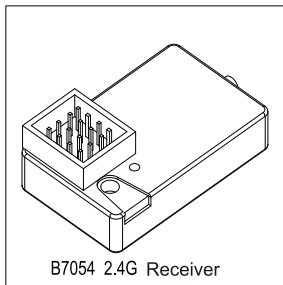
BS903-093 M4 nut 1psc 6pcs



BS701-046#Pin 6pcs



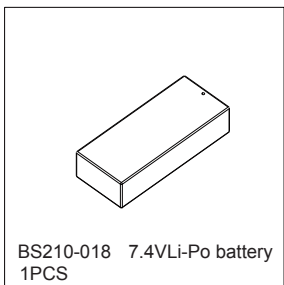
7053 Transmitter 1pcs



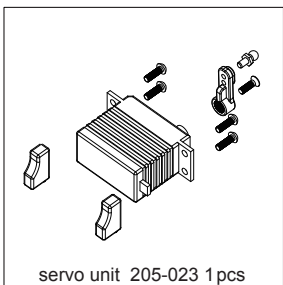
B7054 2.4G Receiver



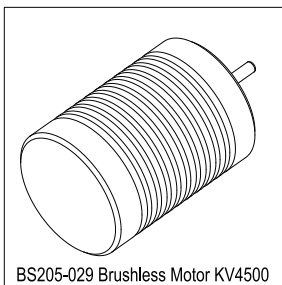
S-TRYK-R Brushless



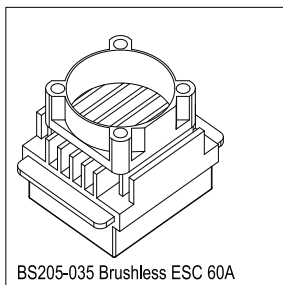
BS210-018 7.4V Li-Po battery 1PCS



servo unit 205-023 1pcs



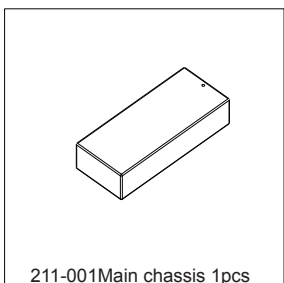
BS205-029 Brushless Motor KV4500



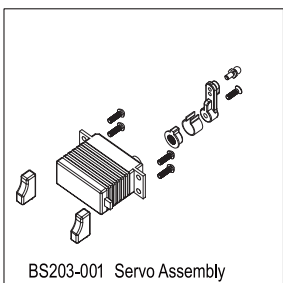
BS205-035 Brushless ESC 60A



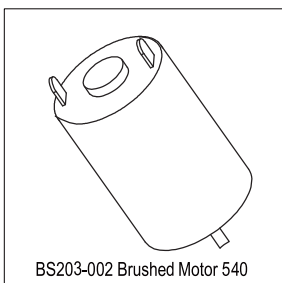
S-TRYK-R



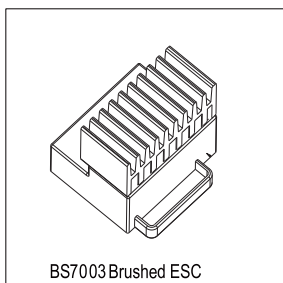
211-001 Main chassis 1pcs



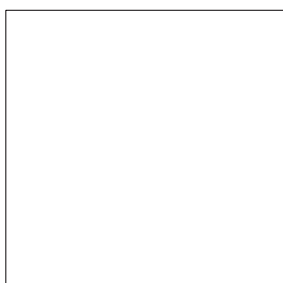
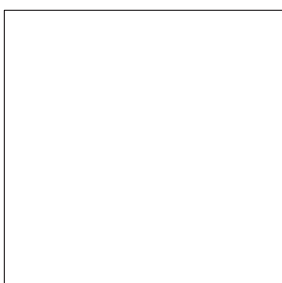
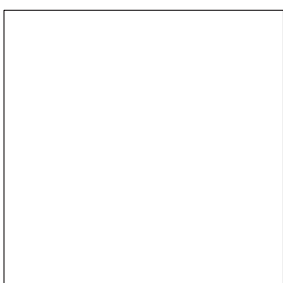
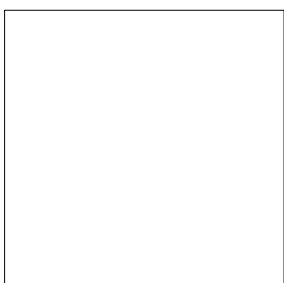
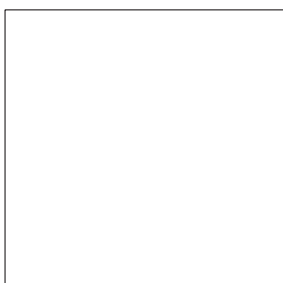
BS203-001 Servo Assembly



BS203-002 Brushed Motor 540



BS7003 Brushed ESC





# 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.

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