

# ***1/10 4WD ELECTRIC-POWERED ROCK CRAWLER***

## ***MODEL NO.:BS703T***



***Product Size:***  
***Width:280mm***  
***Height:150mm***  
***Wheelbase:310-350mm***  
***Tires size:130\*55mm***  
***70T high torque motor***

## **Instruction Manual**

### **Highlights:**

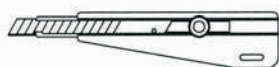
- Articulation:80°.
- Complete ready to race /crawl out of the box.
- 4WD Drive System.
- 70T high torque motor.
- True beadlocks:no messy glue!
- High quality composite plastic and metals.
- Durable (ESC)electronic speed controller :high quality durable forward and reverse speed controller with neutral lock function .
- High torque servo help hold your line when rock crawling.
- High efficiency slipper system.

### **⚠ SAFETY PRECAUTIONS**

- This radio controlled racing car is not a toy!
- This high-performance R/C model is recommended for ages14 and older.
- First-time builders should seek the advice of experienced modellers before commencing assembly.
- Take enough safety precautions prior to operating this model.  
You are responsible for this model's assembly and safe operation!

# Required equipment for operation

## 1. Tools required for building and maintenance:



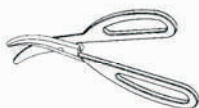
● Hobby knife



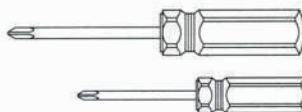
● Precision ruler



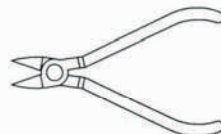
● Needle nose pliers



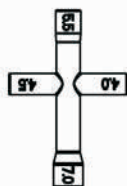
● Lexan scissors



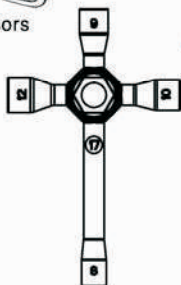
● Flat and Philips screwdriver



● Wire cutters



● Cross wrench



● Cross wrench



● CA glue & rubber cement



● Thread locking compound



1. 5mm



2. 0mm



2. 5mm

● 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:



8pcs AA alkaline  
batteries for  
transmitter

## IMPORTANT!!!

Check all the screws are tight before playing the car!  
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.

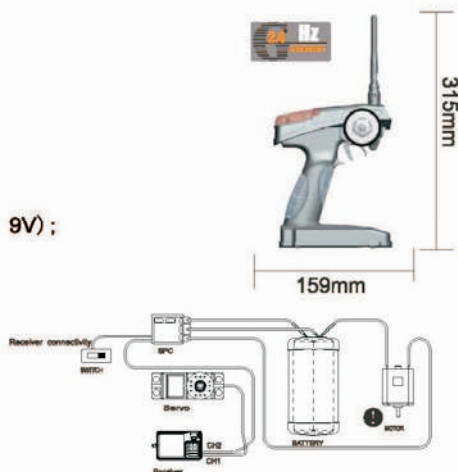




If you are using a nickel-cadmium, nickel-metal hydride batteries for recharging, please use a proper charger. If the electrical current is too large, it may lead to temperature over-heat and cause fire burning accident. Please cut off the power supply immediately after recharging. Please take out the battery from the transmitter when you are not using it within a period, because the battery may get damaged, thus being exposed.

### Transmitter specifications:

- A. Channels: 2 channels;
- B. Model type: car/boat;
- C. RF power: less than 20dbm
- D. Modulation: GFSK;
- E. Code type: digital;
- F. Sensitivity: 1024;
- G. Low voltage warning: yes (less than 9V);
- H. DSC port: yes (3.5mm);
- L. Charger port: yes;
- J. Power: 12vdc (1.5AA\*8);
- K. Weight: 328g;
- L. ANT length: 26mm;
- M. Size: 159\*99\*315mm;
- N. Color: black;
- O. Certificate: CE FCC;



### Note:

Place the antenna of the receiver vertically with the truck!

Don't put it close to the metal thing for assuring its sensitivity. (See Figure 1)

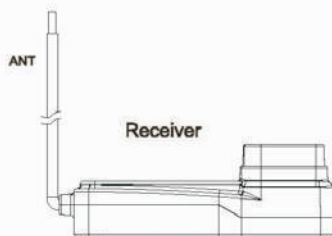


Figure 1

## 2. 4G Operation notes

### Matching (code)

The transmitter and the receiver are well matched in the factory, you do not need to match them. But if you are going to match the receiver with another transmitter, or if you need to change a new receiver or transmitter, please follow these steps:

- A. Install the battery to 2.4G transmitter and shut it down.
- B. Insert the bind cable to the channel BIND/CH3 port of the receiver. (Figure.1)
- C. Connect the receiver battery to VCC port of the receiver, at the same time the two LEDs are flashing, this means the receiver is going to the matching status.
- D. Press and hold the button on the transmitter, and then switch on the power supply.
- E. Observe the LED on the receiver, if the LED does not flash anymore, that means the matching is successful. (This takes about 5s)
- F. Release the match button on the transmitter, take out the bind cable.
- G. Install the servo and then test.
- H. If the test fails, please repeat the actions above.
- I. If the test succeeds, then insert the power supply port into VCC, match complete.

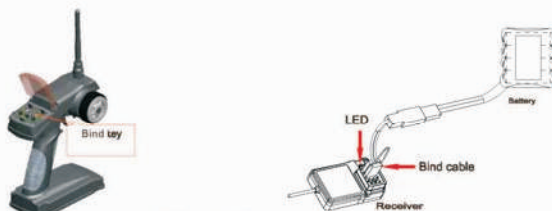
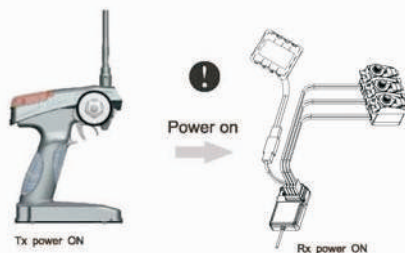


Figure 1

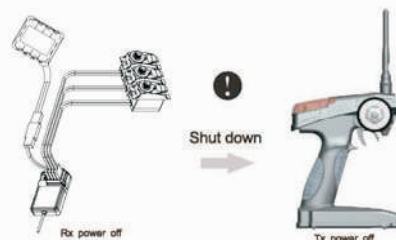
## Connecting to the power

- Connect every part.
- Switch on the power supply of the transmitter.
- Connect the power supply of the receiver.
- Receive LED light solid.
- Finish and use.



## Shut down:

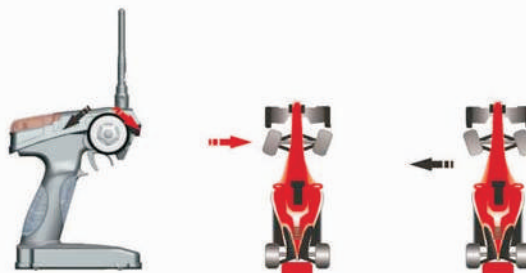
- Cut off the receiver power supply.
- Cut off the transmitter power supply.



## 2.4G transmitter view angles



## Transmitter function notes

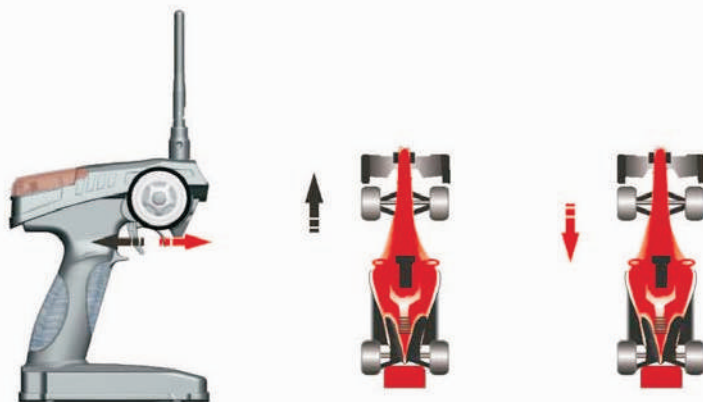


**Function Introduction:**

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.

**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).

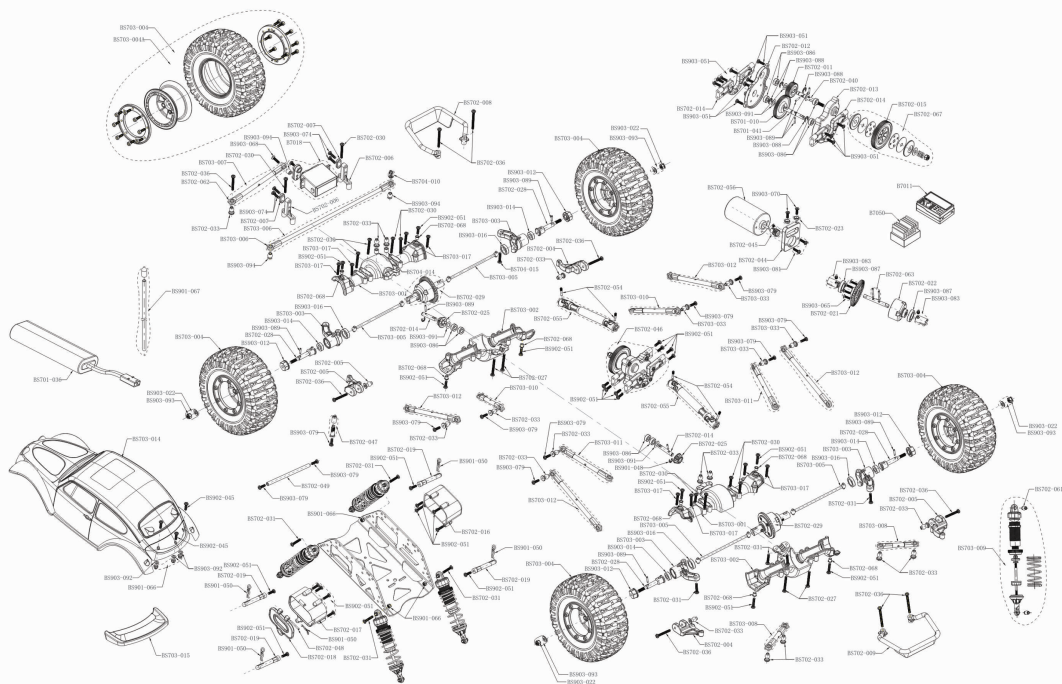
**Operation Method:**

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

## RC OPERATING PROCEDURES

1. Load the battery on the transmitter.
2. Install the charged battery on the car.
3. Turn on the power switch first, before turning on the receiver.
4. Please raise the tires off the ground and check if the control is responding.
5. Hold the throttle trigger to let the car run. If it doesn't work, please adjust the throttle servo and trim.
6. Please replace the battery, when the speed drops down.
7. When you finish the racing, please switch off the receiver first, and then the transmitter.
8. Please make sure the battery is disconnected and remove the battery after finishing the racing.

EXPLODED VIEW





## PARTS LIST

Item No.	Description	Item No.	Description
BS703-001	Diff. Gearbox Bulkhead-Upper 2pcs	BS702-023	Motor washer 2pcs
BS703-002	Diff. Gearbox Bulkhead-Lower 2pcs	BS702-024	Universal joint A 2pcs
BS703-003	Steering Arm 2pcs	BS702-025	Bevel gear 13T 2pcs
BS703-004	Tire Unit 2pcs	BS702-027	B-Head Cross Screw(BM3*25) 12pcs
BS703-005	Drive shaft set 2pcs	BS702-028	Wheel cup join 2pcs
BS703-006	Steering Linkage Set 1pcs	BS702-029	Diff. Unit 1pcs
BS703-007	suspension link set 1pcs	BS702-030	B-Head Cross Screw (BM3*27) 12pcs
BS703-008	Rear toe-in rod 2pcs	BS702-031	B-Head Cross Screw (BM3*15) 12pcs
BS703-009	Shock Absorber Unit 2pcs	BS702-032	Chassis 1pcs
BS703-010	Upper joint bar-Fr 2pcs	BS702-033	Ball Mount A 8pcs
BS703-011	Upper joint bar-Br 2pcs	BS702-036	B-Head Cross Screw (BM3*35) 12pcs
BS703-012	Lower joint bar 4pcs	BS702-039	B-Head Cross Screw (BM3*30) 12pcs
BS703-013	B-Head Cross Screw(BT3*18) 12pcs	BS702-040	Main shaft-A 1pcs
BS703-014	Body 1pcs	BS702-041	Main shaft-B 1pcs
BS703-015	Wing 1pcs	BS702-042	Slipper hub A 1pcs
BS704-010	Washer/M3 self-lock nut 4 pcs	BS702-043	Slipper hub B 1pcs
BS704-014	Body bracket/Body mount 4pcs	BS702-044	Motor mount 1pcs
BS704-015	B-Head Cross Screw(BM3*20) 12pcs	BS702-045	Motor gear 1pcs
BS702-004	Shock mount -left 2pcs	BS702-046	Centre Gearbox Unit 1pcs
BS702-005	Shock mount -right 2pcs	BS702-047	Antenna mount 1pcs
BS702-006	Servo mount 2pcs	BS702-048	Pin( $\phi 2 \times 20$ ) 4pcs
BS702-007	Servo washer 2pcs	BS702-049	Main frame shaft ( $\phi 5 \times 85$ ) 2pcs
BS702-008	Fr. Bumper 1pcs	BS702-054	Shaft drive screw 12pcs
BS702-009	Rear Bumper 1pcs	BS702-055	Centre Drive Shaft 2pcs
BS702-010	Gear-69T 1pcs	BS702-056	70T Motor 1pcs
BS702-011	Gear-41T 1pcs	BS702-057	B-Head Cross Screw (BM3*6) 12pcs
BS702-012	Gearbox Bulkhead-Fr 1pcs	BS702-061	Shock Ball 6pcs
BS702-013	Gearbox Bulkhead-Rr 1pcs	BS702-062	Plastic Ball Cup 12pcs
BS702-014	Main gear box plate 2pcs	BS702-063	Pin( $2 \times 26$ ) 8pcs
BS702-015	Gear-81T 1pcs	BS702-067	Spring/gear washer/gear mount washer
BS702-016	Battery case-left 1pcs	BS702-068	Screw Collar 8pcs
BS702-017	Battery case-right 1pcs	BS701-036	7.2V 2100mAh Ni-Mh battery
BS702-018	Battery case-fr 1pcs	BS903-012	Rim Hub 4pcs
BS702-019	Body mount 4pcs	BS903-014	Ball Bearing( $\phi 6 \times \phi 12 \times 4$ ) 2pcs
BS702-021	Crown gear 43T 2pcs	BS903-016	Ball Bearing( $\phi 10 \times \phi 15 \times 4$ ) 2pcs
BS702-022	Diff case 2pcs	BS903-022	Washer for rim 4pcs



## PARTS LIST

### Item No. Description

BS903-065	Flat Cross Screw(TPF2.6*10) 12pcs
BS903-068	Flat Cross Screw(TPF3*14) 12pcs
BS903-070	Flat Cross Screw(ISO3*10)1 2pcs
BS903-073	B-Head Cross Screw(BT3*12) 12pcs
BS903-075	B-Head Cross Screw(BT3*16) 12pcs
BS903-079	B-Head Cross Screw(BM3*10) 12pcs
BS903-081	Cap Head Hexagon Screw(HM3*10) 12pcs
BS903-086	Ball Bearing( $\phi 5 * \phi 10 * 4$ ) 2pcs
BS903-087	Ball Bearing( $\phi 12 * \phi 18 * 4$ ) 2pcs
BS903-088	E-Clip( $\phi 4 * 0.6$ ) 12pcs
BS903-089	Pin( $\phi 2 * 9.5$ ) 12pcs
BS903-091	Washer A( $\phi 5.2 * \phi 10 * 0.2$ ) 12pcs
BS903-093	M4 Nylon Locknut 6pcs
BS903-094	Double Way Ball end 4pcs
BS903-095	Set Screw(M4*4) 6pcs

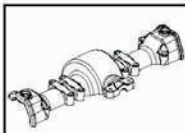
### Item No. Description

BS901-048	E-Clip( $\phi 3 * 0.6$ ) 12pcs
BS901-050	clip for body $\phi 1.0$ 6pcs
BS901-064	Set Screw(M3*3) 6pcs
BS901-066	M3 Nylon locknut 6pcs
BS901-067	Antenna Pipe W/Cap 3pcs
BS902-045	B-Head Cross Screw(BM3*8)
BS902-046	B-Head Cross Screw (BM2*10) 12pcs
BS902-051	B-Head Cross Screw (BT3*10) 12pcs
BS701-035	Charger for Ni-Mh battery
B7053	Radio Unit 1pcs
B7054	Receiver 1pcs
B7018	9kgs Servo 1pcs
B7050	ESC 1pcs

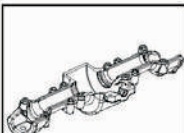
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### Optional parts/Upgrade parts

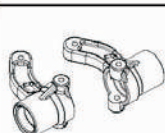
BS702-069	Rear drive shaft -long(upgrade)
BS702-072	Rear drive shaft-short (upgrade)
BS703-004A	Tire Unit(chromed) 2pcs
BS703-016	Dogbones (with metal diff gear) 2pcs



BS703-001 Diff. Gearbox  
Bulkhead-Upper 2pcs



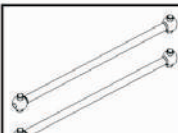
BS703-002 Diff. Gearbox  
Bulkhead-Lower 2pcs



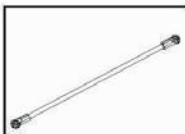
BS703-003 Steering Arm 2pcs



BS703-004 Tire Unit 2pcs



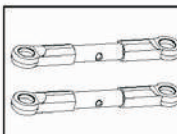
BS703-005 Drive shaft set 2pcs



BS703-006 Steering Linkage Set



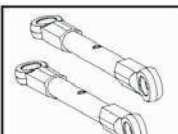
BS703-007 suspension link set



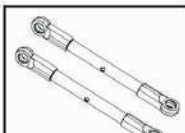
BS703-008 Rear toe-in rod 2pcs



BS703-009 Shock  
Absorber Unit 2pcs



BS703-010 Upper joint  
bar-Fr 2pcs



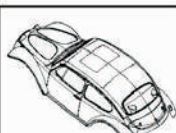
BS703-011 Upper joint bar-Rr 2pcs



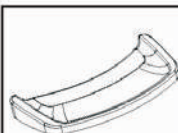
BS703-012 Lower joint bar 4pcs



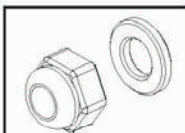
BS703-013 B-Head Hex  
Screw(BT3\*18) 12pcs



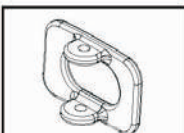
BS703-014 Body



BS703-015 Wing



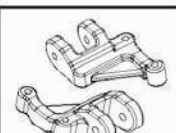
BS704-010 Washer/M3  
self-lock nut 4pcs



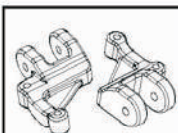
BS704-014 Body bracket  
/Body mount 4pcs



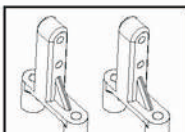
BS704-015 B-Head Hex  
Screw(BM3\*20) 12pcs



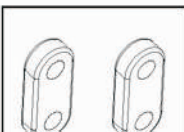
BS702-004 Shock mount -left 2pcs



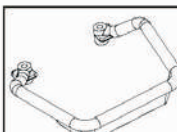
BS702-005 Shock  
mount -right 2pcs



BS702-006 Servo mount 2pcs



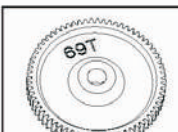
BS702-012 Servo washer 2pcs



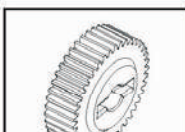
BS702-008 Fr. Bumper 1pcs



BS702-009 Rear Bumper 1pcs



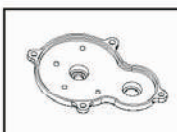
BS702-010 Gear-69T 1pcs



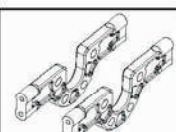
BS702-011 Gear-41T 1pcs



BS702-012 Gearbox  
Bulkhead-Fr 1pcs



BS702-013 Gearbox  
Bulkhead-Rr 1pcs



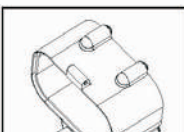
BS702-014 Main gear  
box plate 2pcs



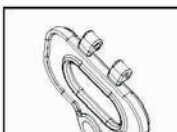
BS702-015 Gear-81T 1pcs



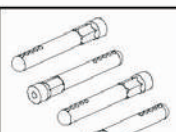
BS702-016 Battery case -left



BS702-017 Battery case -right



BS702-018 Battery case-fr



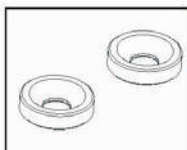
BS702-019 Body mount 4pcs



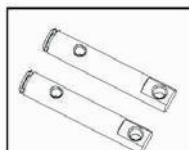
BS702-021 Crown gear 43T 2pcs



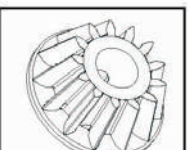
BS702-022 Diff case 2pcs



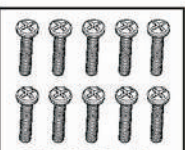
BS702-023 Motor washer 2pcs



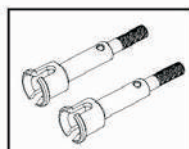
BS702-024 Universal joint A 2pcs



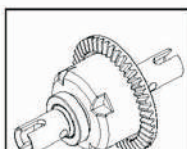
BS702-025 Bevel gear 13T 2pcs



BS702-027 B-Head Hex Screw (BM3\*25) 12pcs



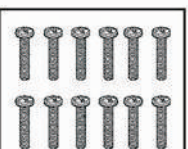
BS702-028 Wheel cup join 2pcs



BS702-029 Diff. Unit



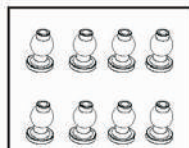
BS702-030 B-Head Hex Screw (BM3\*27) 12pcs



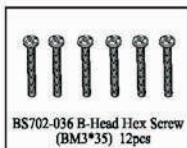
BS702-031 B-Head Hex Screw (BM3\*15) 12pcs



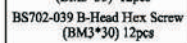
BS702-032 Chassis



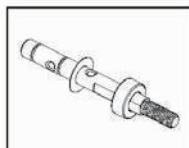
BS702-033 Ball Mount A 8pcs



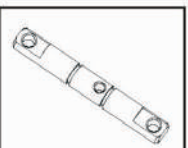
BS702-036 B-Head Hex Screw (BM3\*35) 12pcs



BS702-039 B-Head Hex Screw (BM3\*30) 12pcs



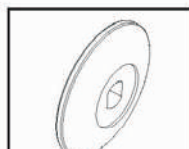
BS702-040 Main shaft-A 1pcs



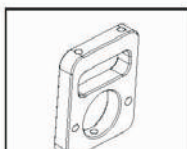
BS702-041 Main shaft-B 1pcs



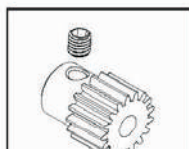
BS702-042 Slipper hub A



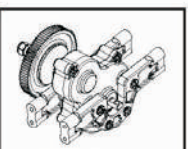
BS702-043 Slipper hub B



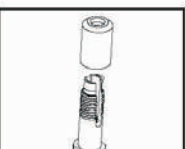
BS702-044 Motor mount 1pcs



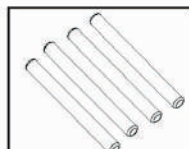
BS702-045 Motor gear



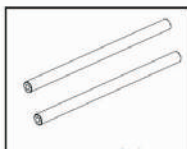
BS702-046 Centre Gearbox Unit



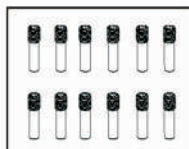
BS702-047 Antenna mount 1pcs



BS702-048 Pin(φ2\*20) 4pcs



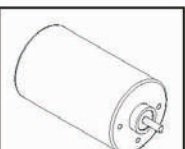
BS702-049 Main frame shaft (φ3\*85) 2pcs



BS702-054 Shaft drive screw 12pcs



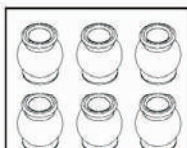
BS702-055 Centre Drive Shaft 2pcs



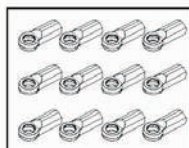
BS702-056 70T Motor



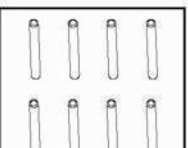
BS702-057 B-Head Cross Screw (BM3\*6) 12pcs



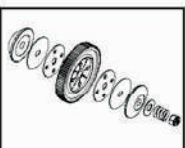
BS702-061 Shock Ball 6pcs



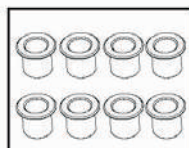
BS702-062 Plastic Ball Cup 12pcs



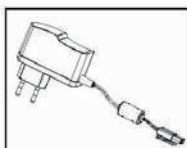
BS702-063 Pin(2\*26) 8pcs



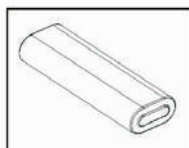
BS702-067 Spur gear set



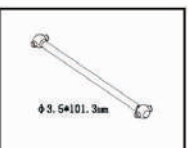
BS702-068 Screw Callar 8pcs



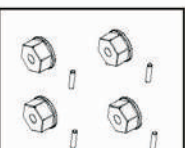
BS701-035 Charger for Ni-Mh battery



BS701-036 7.2V 1800mAh Ni-Mh battery

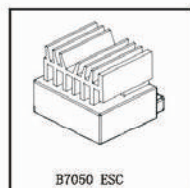
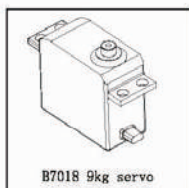
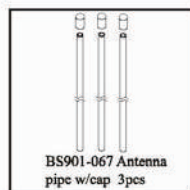
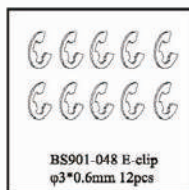
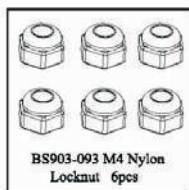
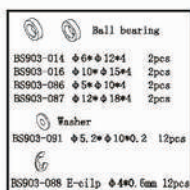
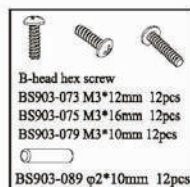
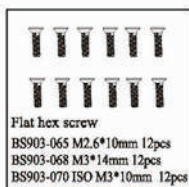


BS933-001 Centre drive shaft-Fr



BS903-012 Rim hub w/pin 2\*10 4pcs





## Optional parts/Upgrade parts

