

REDCAT-RACING

1/8 BRUSHLESS DESERT TRUCK

MODEL :AFTERSHOCK 8E THREE DIFF



Product Size:

Length: 504mm

Width: 305mm

Height: 165mm

Wheelbase: 325mm

Tires size: 117*44mm

Ground clearance: 33mm

Motor: RC 540 KV: 2230

ESC: EZRUN-80A

Instruction Manual

Highlights:

- 4 Wheel Drive System
- Ready Assemble Ready to Run
- High Performance RC 540 KV: 2230 Type Brushless Motor, More Power!
- Brushless ESC EZRUN-80A
- 3200 Mah 2x7.4V 20C Li-Po battery
- Assembled Chassis(3mm 6061 T6 Aluminum)
- Full Function Control
- Colored Coil Spring Damped Suspension System
- Waterproof and Dustproof Sealed Gearbox
- Fast and Easy Assembly and Disassembly of Receiver and Battery Cover
- Quality Differential with Four Bevel Gears
- Precise Sealed Ball Bearing for the Whole Model
- Aluminum Alloy Drive shafts
- The fastest and best brushless EP buggy in China!

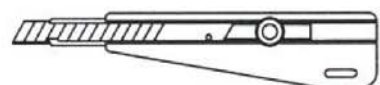
⚠ SAFETY PRECAUTIONS

- This radio controlled racing car is not a toy
- This high-performance R/C model 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 model.
You are responsible for this model's assembly and safe operation!

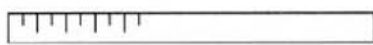
www.redcatracing.com

Required equipment for operation

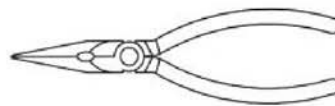
1. Tools required for building and maintenance:



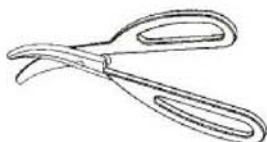
● Hobby knife



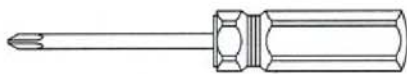
● Precision ruler



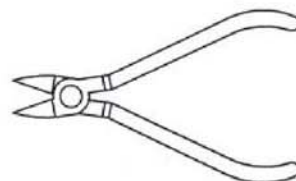
● Needle nose pliers



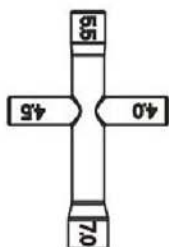
● Lexan scissors



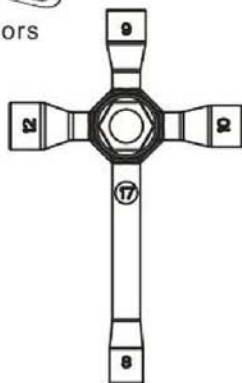
● Flat and Philips screwdriver



● 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:



B7001
Transmitter



B7011
Receiver



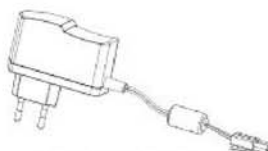
B7018
9Kg Servo



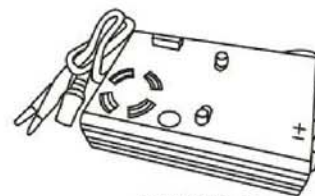
8pcs AA alkaline
batteries for
transmitter



B7055
Brushless ESC



BS701-035
7.2V Ni-Mh battery Charger



B7004-F
7.2V Ni-Mh battery & 2-4 cells
7.4V Li-Po battery charger

IMPORTANT!!!

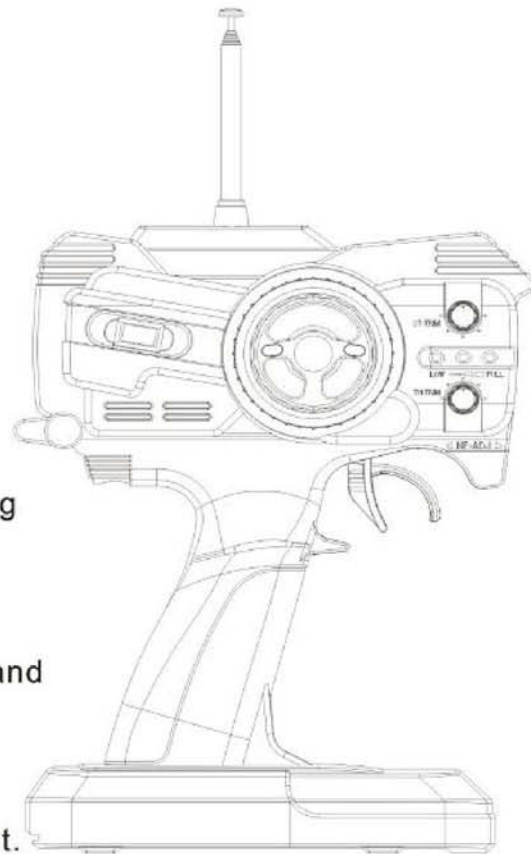
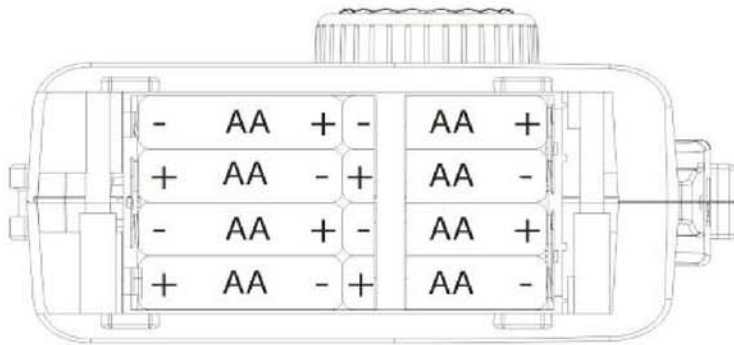
Check all the screws are tight before playing the car!
Use thread lock on all screws that work loose.

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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 motor and ESC 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.

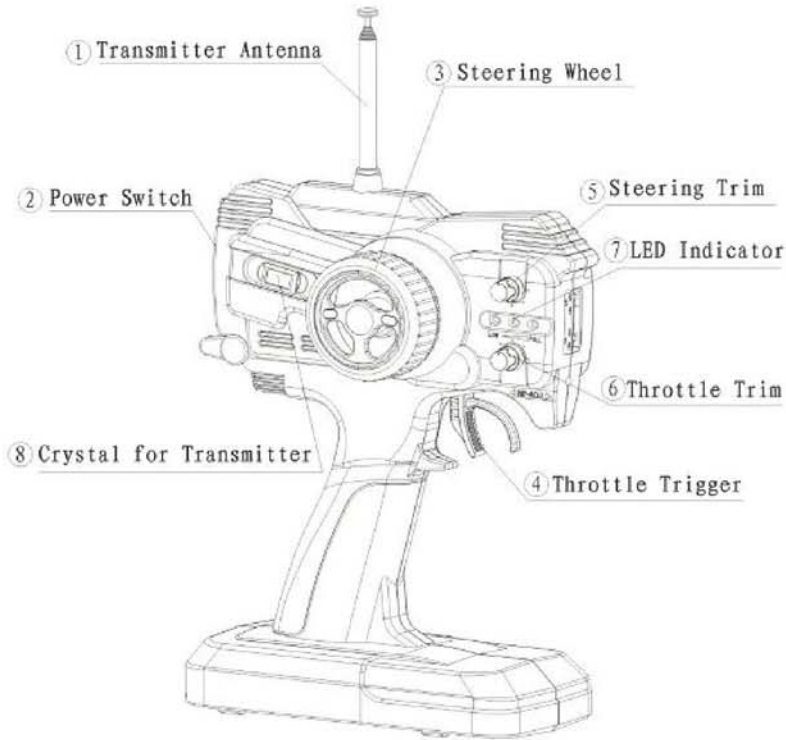
TRANSMITTER PREPARATION



- Install eight "AA" batteries into transmitter, making sure the polarity is correct.
- Insert the antenna into the top of the transmitter and tighten the screw.
- Turn the transmitter on and check the battery light.
- If all LED's light up, the batteries are acceptable. If only the red LED lights up, immediately replace the batteries.



GLOSSARY OF TRANSMITTER



- ① The transmitter antenna is for transmitting the radio waves.
- ② The power switch is for switching the power on/off.
- ③ The steering wheel is for controlling the direction of right/left.
- ④ The throttle trigger is for controlling the throttle and brake.
- ⑤ The steering trim is for adjusting the position of neutral.(right/left)
- ⑥ The throttle trim is for adjusting the carb in idle position.
- ⑦ The LED indicator is for showing the remaining power of the battery when turning on the power switch.
- ⑧ Crystal for transmitter is for changing the radio frequency by replacing the crystal.

BEFORE THE OPERATING

- Install the receiver antenna.
- Install the transmitter antenna.
- Load the battery on the transmitter.
- Install the charged battery on the car.

RC OPERATING PROCEDURES

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

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PARTS LIST

| Item No. | Description | Item No. | Description |
|-----------|-------------------------------------|-----------|-----------------------------------|
| BS903-003 | Shock absorber unit(plastic) 2pcs | BS903-086 | Ball bearing (5*10*4) 2pcs |
| BS903-004 | Shock absorber unit(alum.) 2pcs | BS903-087 | Ball bearing (12*18*4) 2pcs |
| BS903-005 | Brace 1pcs | BS903-089 | Pin (2*9.5) 12pcs |
| BS903-007 | Body pin 6pcs | BS903-091 | Washer A (5.2*10*0.2) 12pcs |
| BS903-008 | Upper susp. Arm set | BS903-092 | Washer B (4.2*8*0.2) 12pcs |
| BS903-009 | Fr.bumper 1pcs | BS903-094 | Double way ball end 6pcs |
| BS903-010 | Suspension arm mount block 2pcs | BS903-095 | M4*4 set screw 6pcs |
| BS903-011 | Upper susp.arm mount-Fr/Rr | BS903-097 | Diff.gearbox |
| BS903-013 | Axle w/pin | BS903-098 | Diff.gearbox bulkhead-upper/lower |
| BS903-014 | Ball bearing(6*12*4) 2pcs | BS903-106 | Screw pin (M3*9.5) 12pcs |
| BS903-016 | Ball bearing(10*15*4) 2pcs | BS903-107 | Screw (M2.5*13) 12pcs |
| BS903-017 | Fr/Rr C-carrier | BS903-109 | Diff.outdrive A/Pin(2*10) |
| BS903-018 | Fr.lower susp.arm-Lf/Rt | BS903-110 | Diff.outdrive B/Pin(2*10) |
| BS903-019 | Transverse driver shaft set | BS903-111 | Kunckle Arm-L/R(metal) |
| BS903-023 | O-washer 4pcs | BS933-006 | Centre diff.box |
| BS903-024 | Front suspension arm pin-short 4pcs | BS933-012 | Spur gear(46T) |
| BS903-025 | Suspension arm pin-long 4pcs | BS701-031 | Tail wing mount |
| BS903-026 | Fr.chassis | BS701-032 | Rollcage post set |
| BS903-028 | Lower susp.mount block-Fr/Rr | BS701-033 | Body post-Fr |
| BS903-030 | Steering linkage set 2pcs | BS701-034 | Body post-Rr |
| BS903-058 | Hub rear carrier | BS702-049 | Rollcage beam 2pcs |
| BS903-059 | Rr.lower susp.arm-L/R | BS901-066 | M3 locknut 5pcs |
| BS903-061 | Rear suspension arm pin-short | BS901-067 | Antenna pipe w/cap |
| BS903-065 | TPF2.6*10 flat cross screw 12pcs | BS901-080 | Crystal 2-one set |
| BS903-067 | TPF3*10 flat cross screw 12pcs | BS901-081 | Crystal 4-one set |
| BS903-068 | TPF3*14 flat cross screw 12pcs | BS901-082 | Crystal 6-one set |
| BS903-069 | TPF3*16 flat cross screw 12pcs | BS901-083 | Crystal 8-one set |
| BS903-070 | ISO3*10 flat cross screw 12pcs | BS901-084 | Crystal 10-one set |
| BS903-072 | BT3*8 B-head cross screw 12pcs | BS901-085 | Crystal 12-one set |
| BS903-073 | BT3*12 B-head cross screw 12pcs | BS902-051 | BT3*10 B-head cross screw 12pcs |
| BS903-074 | BT3*14 B-head cross screw 12pcs | BS905-006 | Tail wing 1pcs |
| BS903-075 | BT3*16 B-head cross screw 12pcs | BS803-001 | Chassis 1pcs |
| BS903-076 | BT3*20 B-head cross screw 12pcs | BS803-002 | Side guard plate-L/R |
| BS903-079 | BM3*10 B-head cross screw 12pcs | BS803-004 | (ISO3*8) Flat cross screw 12pcs |
| BS903-081 | HM3*10 Cap head hexagon screw 6pcs | BS803-005 | Steering servo mount-A/B |
| BS903-083 | Diff.outdrive D/set screw | BS803-006 | Steering servo horn linkage l set |
| | | BS803-007 | Battery base-L |



PARTS LIST

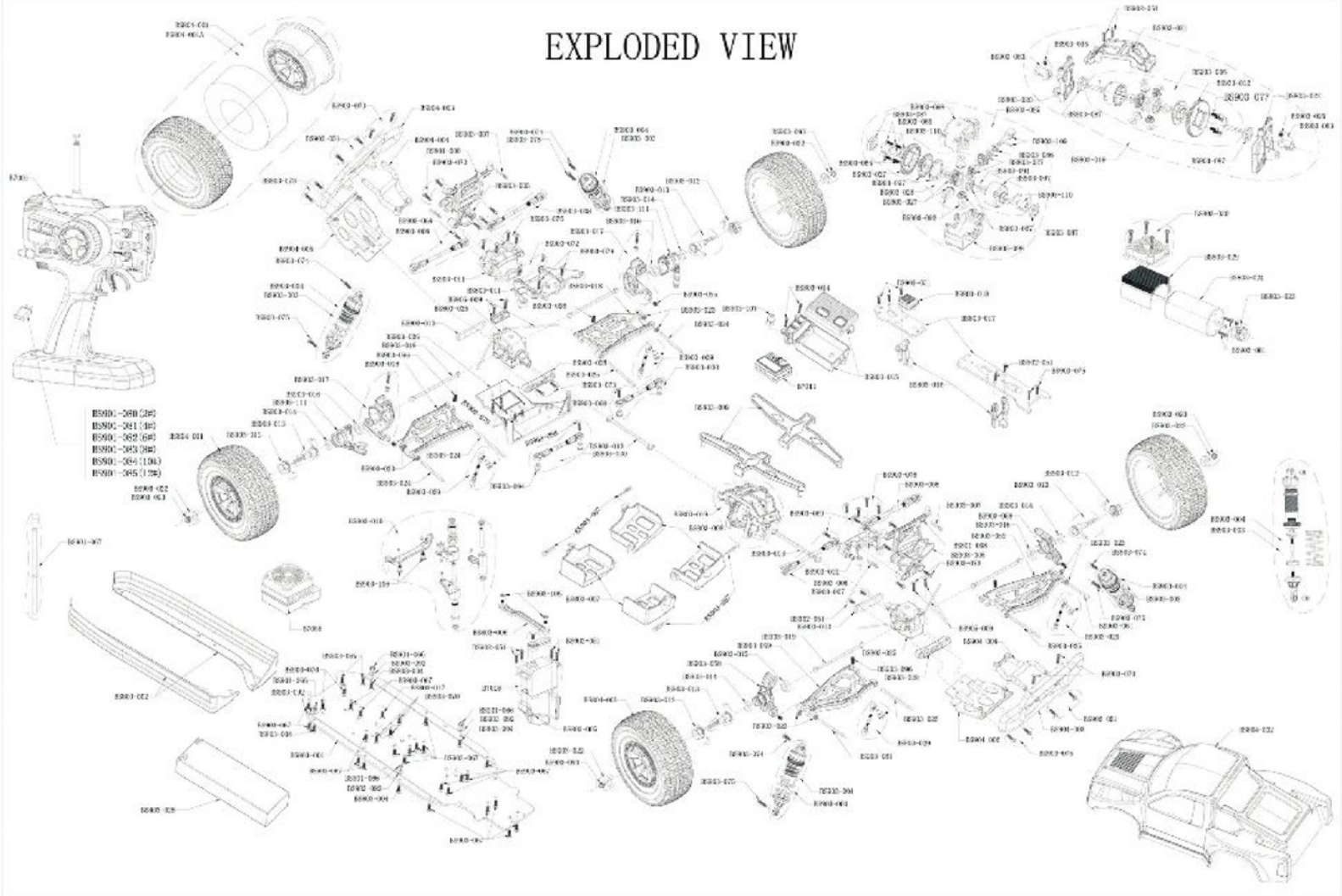
| Item No. | Description | Item No. | Description |
|-----------|-----------------------------------|-----------|--|
| BS803-008 | Battery base-R | BS803-025 | Diff. gearbox unit |
| BS803-009 | Left/right battery cover | BS803-026 | Diff. Unit |
| BS803-010 | Servo saver unit | BS803-027 | Driving/Driven Gear, Diff. Gear/Bevel gears |
| BS803-011 | Upper deck-Fr | BS803-028 | 7.4V/20C LiPo battery |
| BS803-012 | Centre drive shaft-Fr 1pc | BS804-001 | Tire unit 2pcs |
| BS803-013 | Centre drive shaft-Rr 1pc | BS804-002 | Silk-screened body 1pcs |
| BS803-014 | (BM3*14) B-head cross screw 12pcs | BS904-003 | Bumper 2pcs |
| BS803-015 | Receiver case-Upper/Lower | BS904-004 | Bumper brace 1pcs |
| BS803-016 | Front/rear upper deck mount | BS904-005 | Fr. bumper 1pcs |
| BS803-017 | Upper deck-Fr/Rr | BS904-006 | Rr. bumper 1pcs |
| BS803-018 | Wire mount | BS904-008 | Fr/Rr body post |
| BS803-019 | Centre diff.Unit | B7001 | Transmitter complete |
| BS803-020 | Centre diff mount | B7011 | Receiver |
| BS803-021 | Centre Diff Cover | B7018 | Servo (9Kg) |
| BS803-022 | Motor mount | B7055 | Brushless ESC 80A |
| BS803-023 | Motor gear 15T/M3 Grub screw | | |
| BS803-024 | Brushless motor KV:2230 | | |

Optional parts/Upgrade parts

| | |
|-----------|---|
| BS903-029 | Anti-roll bar fixation set 2pcs |
| BS903-096 | (M4*8) Set Screw 6pcs |
| BS905-009 | Rear Anti-roll bar set |
| BS701-035 | Charger for 7.2V Ni-Mh battery |
| BS701-036 | 7. 2V Ni-Mh battery |
| BS803-029 | Motor heat sink |
| BS803-030 | Motor cooling fan |
| B7004-F | 7.2V Ni-Mh battery & 2-4 cells 7.4V Li-Po battery charger |
| MP0-01 | Wheel hex set |
| MP0-02 | C hub/c hub w/pin |
| MP0-04 | Rear hub set |
| MP0-05 | Shock stay mount |
| MP0-06 | Front suspension mount |
| MP0-07 | Rear suspension mount |
| MP0-11 | Steering link |

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EXPLODED VIEW



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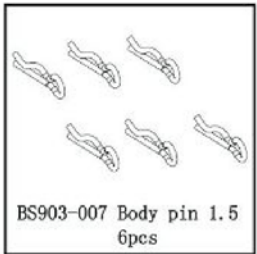
7



BS903-003 Shock absorber unit(plastic) 2pcs
BS903-004 Shock absorber unit(alum.) 2pcs



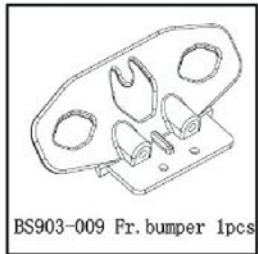
BS903-005 Shock tower



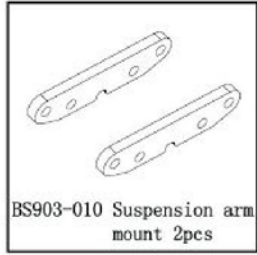
BS903-007 Body pin 1.5 6pcs



BS903-008 Upper susp. Arm 2set



BS903-009 Fr. bumper 1pcs



BS903-010 Suspension arm mount 2pcs



BS903-011 Upper susp. arm mount-Fr/Rr



BS903-014 Ball bearing $\phi 6 * \phi 12 * 4$ 2pcs



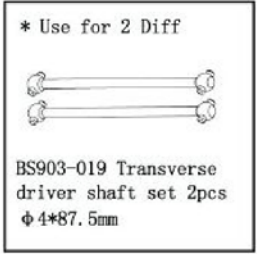
BS903-016 Ball bearing $\phi 10 * \phi 15 * 4$ 2pcs



BS903-017 C Hub w/screw



BS903-018 Fr. lower susp. arm-Lf/Rr



* Use for 2 Diff
BS903-019 Transverse driver shaft set 2pcs $\phi 4 * 87.5$ mm



BS903-023 O-washer 8pcs



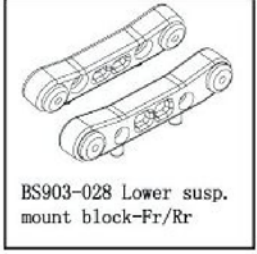
BS903-024 Front suspension arm pin-short 4pcs $\phi 3 * 37.5$ mm



BS903-025 Suspension arm pin-long 4pcs $\phi 3 * 56.0$ mm



BS903-026 Front damper



BS903-028 Lower susp. mount block-Fr/Rr



BS903-030 Steering linkage set 2set



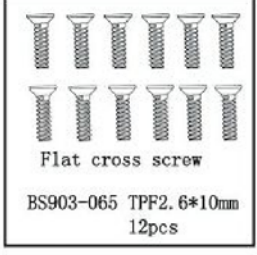
BS903-058 Rear hub



BS903-059 Rear lower susp. arm-L/R



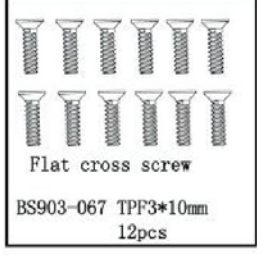
BS903-061 Rear suspension arm pin-short 4pcs $\phi 3 * 34.5$ mm



Flat cross screw
BS903-065 TPF2.6*10mm 12pcs



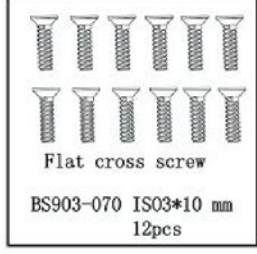
Flat cross screw
BS903-069 TPF3*16 mm 12pcs



Flat cross screw
BS903-067 TPF3*10mm 12pcs



Flat cross screw
BS903-068 TPF3*14 mm 12pcs



Flat cross screw
BS903-070 IS03*10 mm 12pcs



B-head cross screw
BS903-072 BT3*8 mm 12pcs



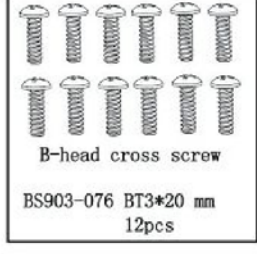
B-head cross screw
BS903-073 BT3*12 mm 12pcs



B-head cross screw
BS903-074 BT3*14 mm 12pcs



B-head cross screw
BS903-075 BT3*16 mm 12pcs



B-head cross screw
BS903-076 BT3*20 mm 12pcs



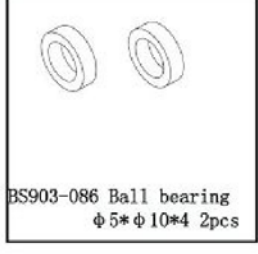
B-head cross screw
BS903-079 BM3*10 mm 12pcs



Socket head cap screw
BS903-081 M3*10 mm 6pcs

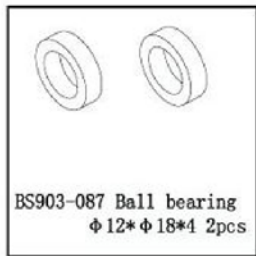


BS903-083 Diff. Outdrive D/M4*4 set screw



BS903-086 Ball bearing $\phi 5 * \phi 10 * 4$ 2pcs

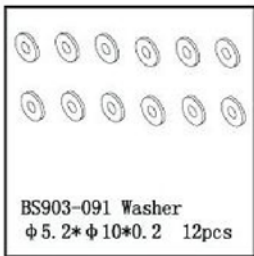




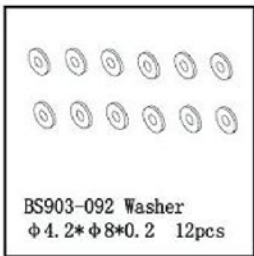
BS903-087 Ball bearing
φ 12*φ 18*4 2pcs



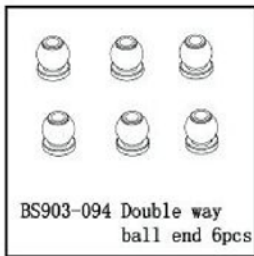
BS903-089 Pin φ 2*10mm
12pcs



BS903-091 Washer
φ 5.2*φ 10*0.2 12pcs



BS903-092 Washer
φ 4.2*φ 8*0.2 12pcs



BS903-094 Double way
ball end 6pcs



BS903-095 Grub screw
M4*4mm 6pcs



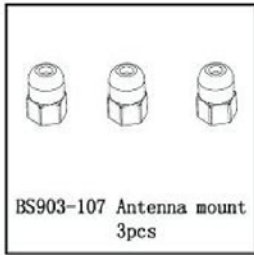
BS903-097 Diff. gearbox



BS903-098 Diff. gearbox
bulkhead-upper/lower



BS903-106 M3*9.5mm Screw
pin 12pcs



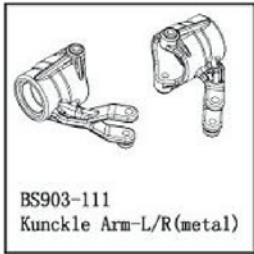
BS903-107 Antenna mount
3pcs



BS903-109 Diff. outdrive
A/Pin(2*10)



BS903-110 Diff. outdrive
B/Pin(2*10)



BS903-111
Kunckle Arm-L/R(metal)



BS933-006 Centre diff. box



BS933-012 Spur gear(46T)



BS701-031 Tail wing mount



BS701-032 Rollcage
post set



BS701-033 Body post-Fr



BS701-034 Body post-Rr



BS702-049 Main frame shaft



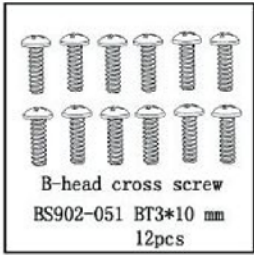
BS901-066 M3 locknut 5pcs



BS901-067 Antenna pipe
w/cap 3pcs



one set
BS901-080 Crystal 2
BS901-081 Crystal 4
BS901-082 Crystal 6
BS901-083 Crystal 8
BS901-084 Crystal 10
BS901-085 Crystal 12



B-head cross screw
BS902-051 BT3*10 mm
12pcs



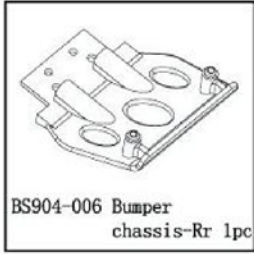
BS905-006 Tail wing



BS804-001 Tire unit 2pcs
BS804-001A Tire unit
(chromed)2pcs



BS903-013 Axle w/pin
2pcs



BS904-006 Bumper
chassis-Rr 1pc



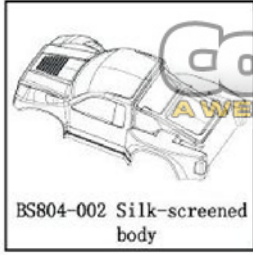
BS904-008 Chassis



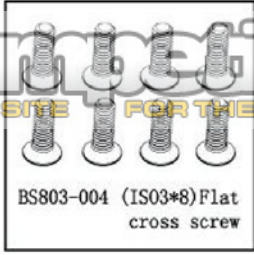
BS803-001 Chassis



BS803-002 Side guard
plate-L/R



BS804-002 Silk-screened
body



BS803-004 (IS03*8) Flat
cross screw



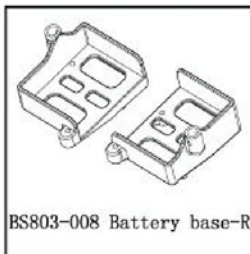
BS803-005 Steering
servo mount-A/B



BS803-006 Steering
servo horn linkage 1set



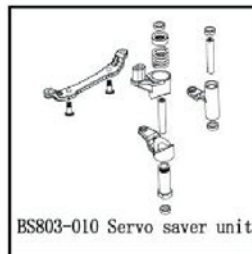
BS803-007 Battery base-L



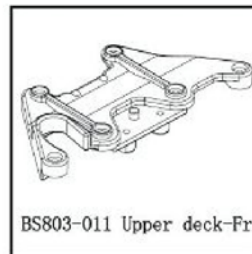
BS803-008 Battery base-R



BS803-009 Left/right battery cover



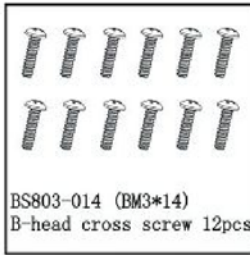
BS803-010 Servo saver unit



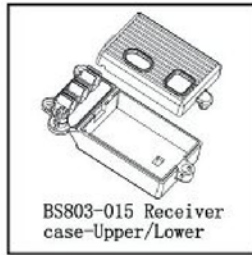
BS803-011 Upper deck-Fr



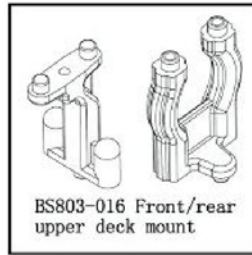
BS803-012 Centre drive shaft-Fr
BS803-013 Centre drive shaft-Rr



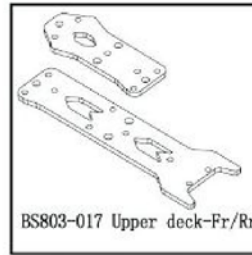
BS803-014 (BM3*14)
B-head cross screw 12pcs



BS803-015 Receiver case-Upper/Lower



BS803-016 Front/rear upper deck mount



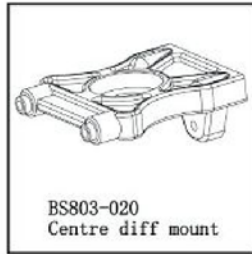
BS803-017 Upper deck-Fr/Rr



BS803-018 Wire mount



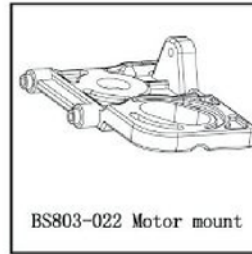
BS803-019 Centre diff. Unit



BS803-020 Centre diff mount



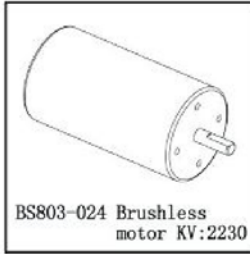
BS803-021 Centre Diff Cover



BS803-022 Motor mount



BS803-023 Motor gear 15T/M3 Grub screw



BS803-024 Brushless motor KV:2230



BS803-025 Diff. gearbox unit



BS803-026 Diff. Unit



BS803-027 Driving/Driven Gear, Diff. Gear/Bevel gears



BS803-028 7.4V/20C LiPo battery



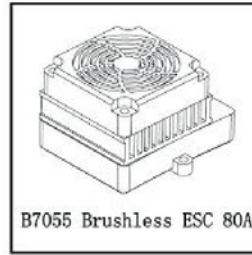
B7001 Transmitter complete AM



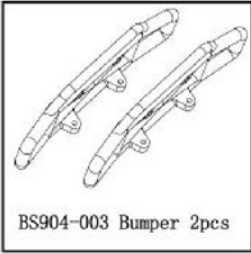
B7011 Receiver 1pcs AM



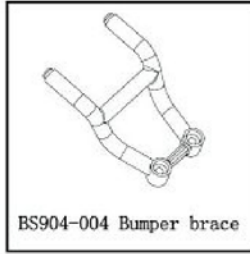
B7018 9kg servo



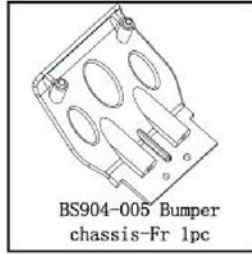
B7055 Brushless ESC 80A



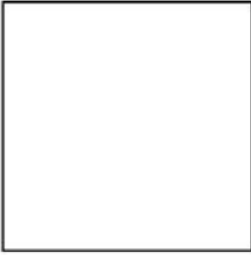
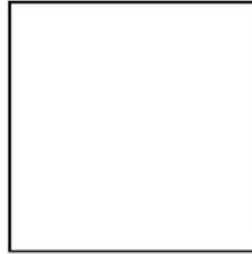
BS904-003 Bumper 2pcs



BS904-004 Bumper brace

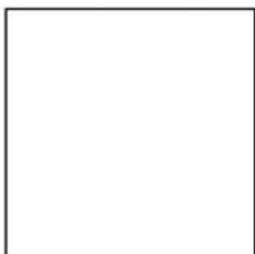
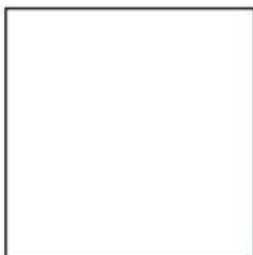
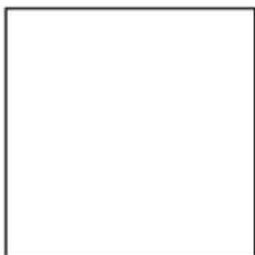
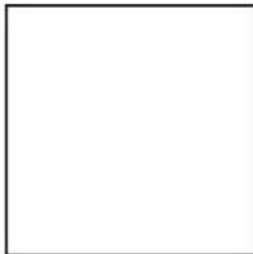
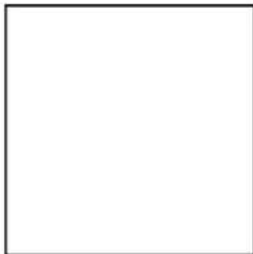
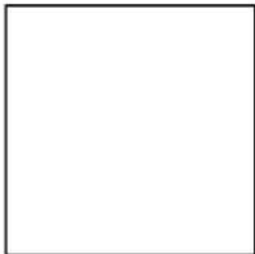
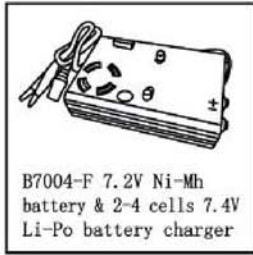
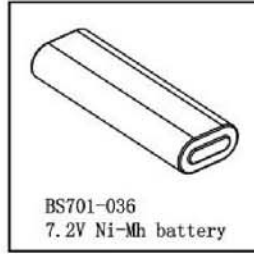
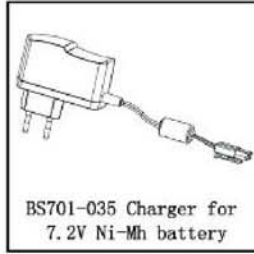
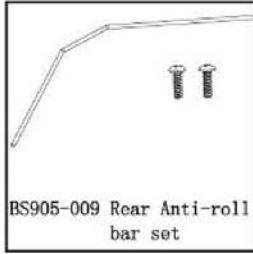


BS904-005 Bumper chassis-Fr 1pc



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OPTIONAL PARTS/UPGRADE PARTS



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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