



SHREDDER

MANUAL / QUICK START GUIDE

IMPORTANT LINKS:

Link to the most recent version of this manual with exploded views and parts lists:
www.redcatracing.com/manuals/SHREDDERMANUAL.pdf

Link to electric vehicles manual:
www.redcatracing.com/manuals/ELECTRIC-MANUAL.pdf



FEATURES & SPECIFICATIONS

- 1300KV Brushless Electric Motor
- Brushless 80A ESC
- Forward & Reverse
- 4 Wheel Drive
- Aluminum Capped Oil Filled Big Bore Shocks
- 2.4GHz Radio System

- Scale: 1/6
- Length: 670mm
- Width: 430mm
- Height: 230mm
- Wheelbase: 480mm
- Ground Clearance: 76mm

Vehicle Battery Capabilities

Minimum LIPO voltage: 11.1V

Maximum LIPO voltage: 14.4V

Warning: Exceeding the maximum battery voltage may cause damage to the motor and electronic components of this vehicle and will void the vehicle warranty.

VEHICLE OVERVIEW

A: On/Off Switch

B: 2.4GHz Receiver

C: ESC

D: Electric Motor

E: Steering Servo

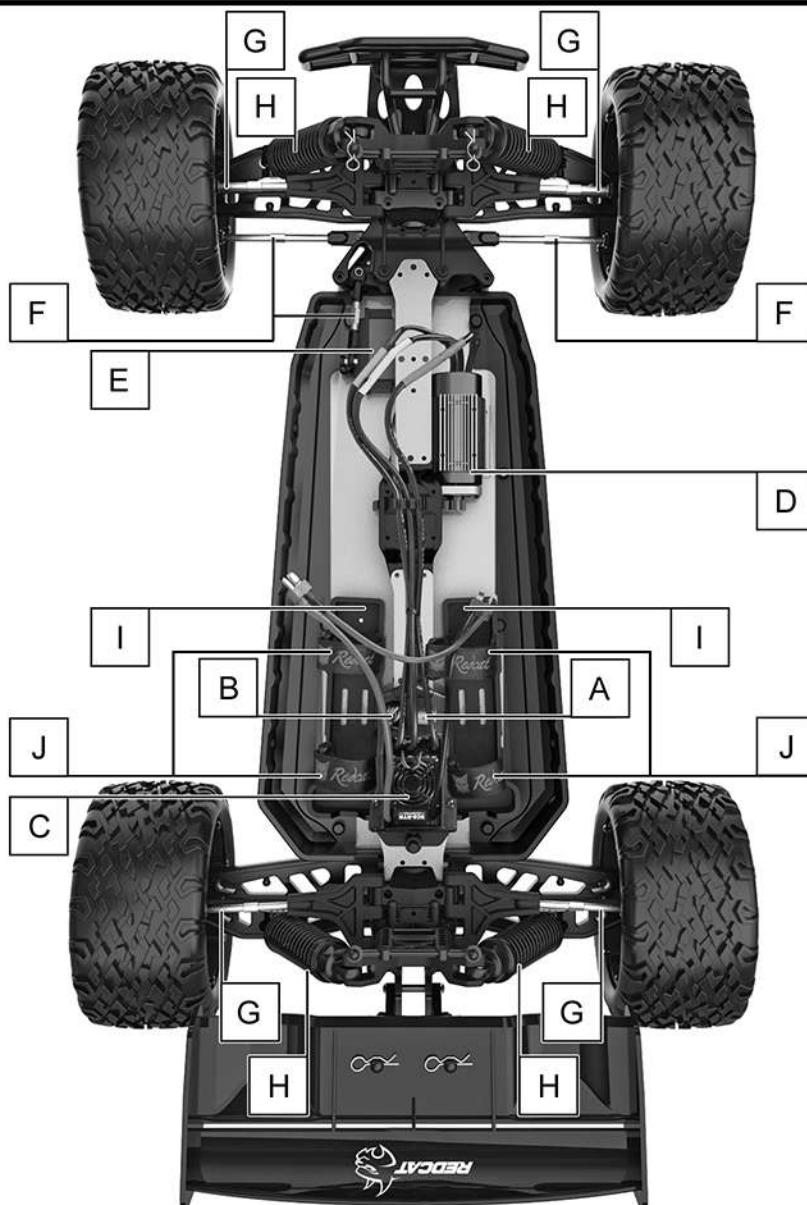
F: Steering Linkage

G: Upper Suspension Link

H: Oil Filled Shocks

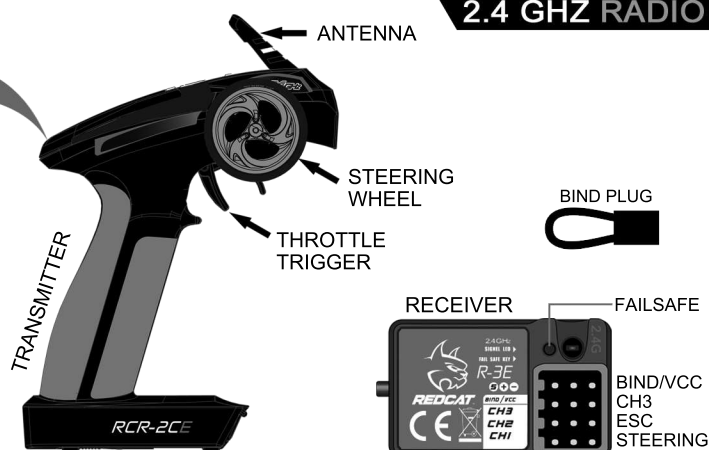
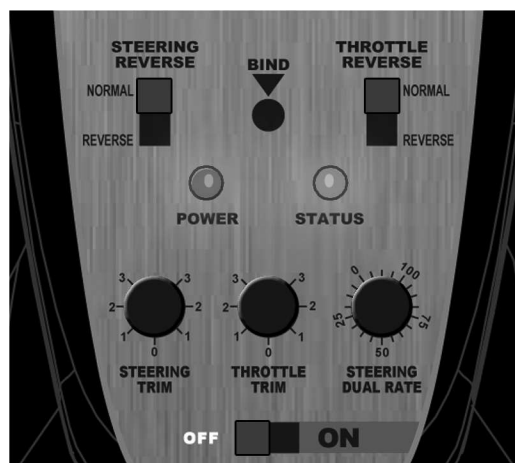
I: Battery Boxes

J: Battery Straps



RADIO GUIDE

CONTROL PANEL



2.4 GHZ RADIO

RADIO:

Steering Reverse Switch: Top left switch. Used to change steering orientation. If the car turns right when you steer left, flip this switch.

Throttle Reverse Switch: Top right switch. Used to change throttle trigger orientation. If the car goes in reverse while you pull the throttle trigger, flip this switch.

Power LED: Left LED light. Lights up when the transmitter is turned on.

Status LED: Right LED light. Lights up green when transmitter batteries are full. Flashes when transmitter batteries are low and need replacing.

Bind Button: Used to bind the transmitter to the receiver. See binding instructions.

Steering Trim: Left knob. Used to set the steering neutral point. If the vehicle veers in one direction while the steering wheel is centered, turn this knob in the opposite direction until the car drives straight.

Throttle Trim: Middle knob. Used to set the throttle neutral point. If the vehicle moves forward or reverse while the throttle trigger is centered, turn this knob until the vehicle remains still. For maximum setting, turn slowly until the vehicle creeps forward, then turn the knob the opposite direction until the car stops.

Steering Dual Rate: Right knob. Used to limit the amount of steering. 0= little/no steering & 100= maximum steering. Set the knob to the amount of steering you feel comfortable with. If the vehicle has a tendency to spin out, lower the steering rate.

On/Off Switch: Bottom switch. Turns transmitter On and Off.

RECEIVER:

BIND/VCC: Used when binding to transmitter.

Ch3: Used for 3rd channel when needed.

Ch2: Used for electronic speed controller (ESC).

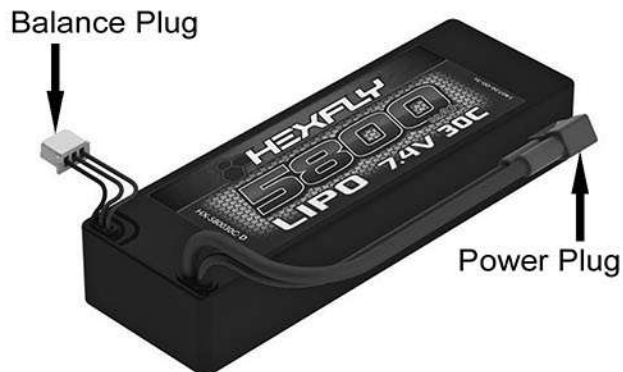
Ch1: Used for steering servo.

Failsafe Button: Used to set failsafe.

BINDING:

1. Insert the BIND PLUG into the receiver BIND port.
2. Make sure your ESC is plugged into CH2, and insert the bind plug into BIND/VCC. Now, power the vehicle on and the receiver light should begin to blink red.
3. Press the BIND button in the center of the transmitter's Control Panel and turn on radio.
4. Release the bind button when you see the green light on the radio flashing. At this point, your receiver's LED light should pause for approximately 1 second and then blink slowly. Turn off the power to your vehicle, as well as the radio.
5. Remove the BIND PLUG from the receiver. Make sure the servos and ESC are attached as described above.
6. First turn your radio on, then your vehicle as normal. Your radio and receiver should be bound together and communicating with each other.

CHARGING BATTERIES



Batteries and charger not included

ATTENTION:

It is important to read all instructions included with your battery and charger before attempting to charge a battery. Follow all instructions and warnings included with your battery and charger when using batteries.

LIPO Balance Plug: This plug **MUST** be plugged into a LIPO balance charger to charge your LIPO battery. Never attempt to quick charge LIPO batteries using the power plug.

Power Plug: This plug is used to power the vehicle and gets plugged into the ESC. On a LIPO battery, Make sure to unplug this plug from the ESC **BEFORE** plugging the Balance Plug into a charger.

Battery Connection Instructions:

Make sure battery connectors are fully pushed in when connecting the battery to the vehicle.

ATTENTION:

We recommend you only use quality batteries and chargers like Hexfly batteries and chargers in Redcat vehicles.

Recommended Charger:

HX-403 - LIPO balance charger

Recommended Batteries:

HX-580030C-D - Hexfly 5800MAH 7.4V 30C LIPO battery.

Charge Times:

Charge times vary according to charger current and battery mAh. **Battery mAh ÷ Charger mA = Approximate charge time**
Ex. 2000mAh battery ÷ 500 mA charger = ~4 hours charge time.

To convert milliamps (mA) to amps (A):
Divide the mA number by 1000.
ex. 900mA ÷ 1000 = 0.9A

BATTERY →	3200mAh	3500mAh	5000mAh	5800mAh
CHARGER ↓				
0.9 A	3.55 hrs	3.88 hrs	5.55 hrs	6.44 hrs
1.5 A	2.13 hrs	2.33 hrs	3.33 hrs	3.87 hrs
3.0 A	1.07 hrs	1.17 hrs	1.67 hrs	1.93hrs



WARNING



UNPLUG THE BATTERY PACK FROM THE VEHICLE! BEFORE CHARGING YOUR BATTERY PACK, YOU MUST FIRST UNPLUG IT FROM THE ESC. FAILURE TO UNPLUG THE BATTERY FROM THE VEHICLE'S ESC BEFORE CHARGING MAY PERMANENTLY DAMAGE SOME OR ALL ELECTRONICS IN THE VEHICLE.

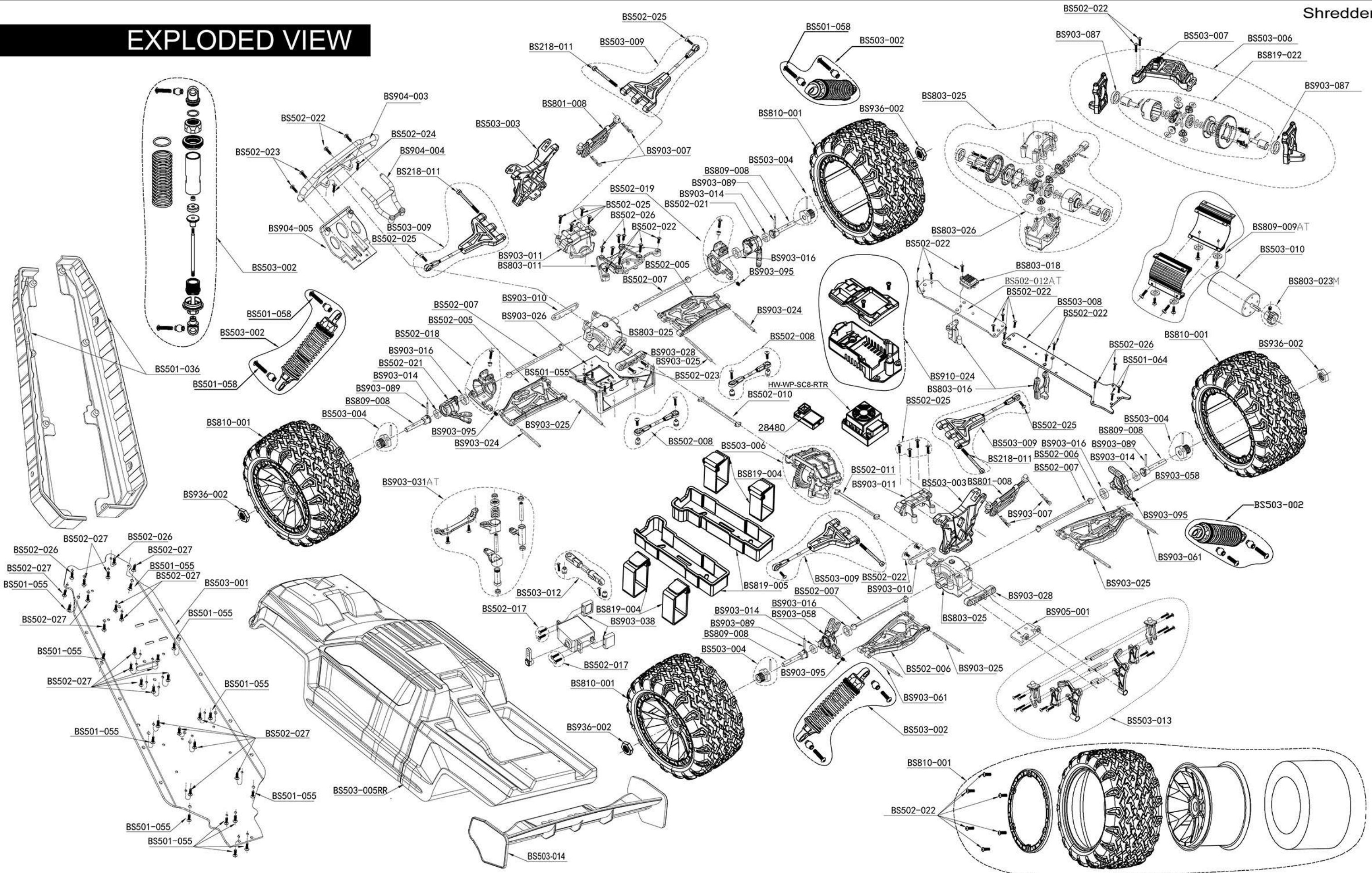
NEVER LEAVE BATTERY PACKS UNATTENDED WHILE CHARGING! Leaving a battery unattended while charging may result in fire and damage / injury.

NEVER ALLOW A BATTERY PACK TO GET HOT! It's normal for the battery pack to get warm, but it should never get hot! Monitor batteries during charging and unplug to let cool if the battery gets hot.

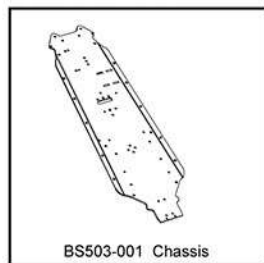
WHEN CHARGING LIPOs, A LIPO SAFE CHARGING BAG SHOULD BE USED TO HELP PREVENT FIRES.

EXPLODED VIEW

Shredder



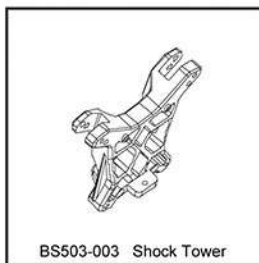
PARTS IDENTIFICATION



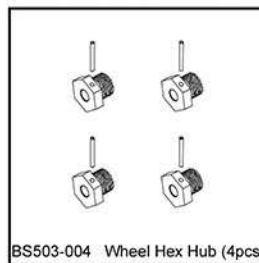
BS503-001 Chassis



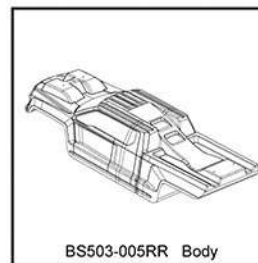
BS503-002 Shocks (2pcs)



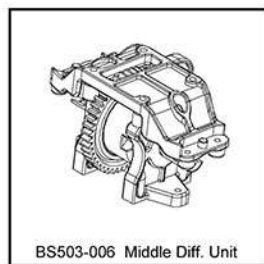
BS503-003 Shock Tower



BS503-004 Wheel Hex Hub (4pcs)



BS503-005RR Body



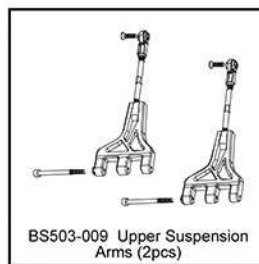
BS503-006 Middle Diff. Unit



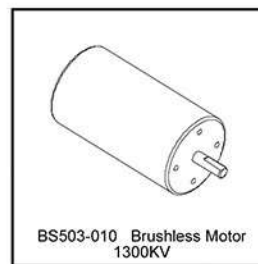
BS503-007 Diff Mounting Brace



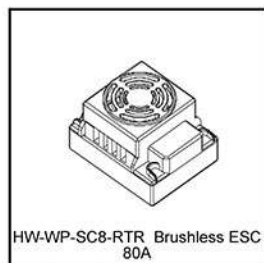
BS503-008 Rear Upper Deck



BS503-009 Upper Suspension Arms (2pcs)



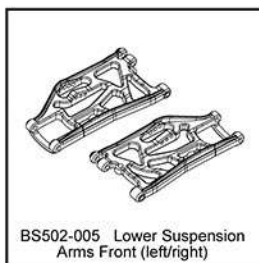
BS503-010 Brushless Motor 1300KV



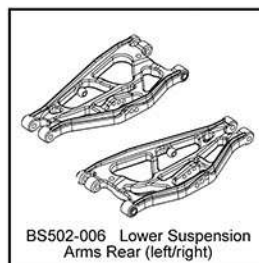
HW-WP-SC8-RTR Brushless ESC 80A



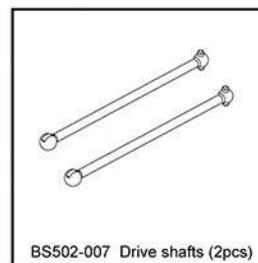
BS503-012 Steering Servo Link



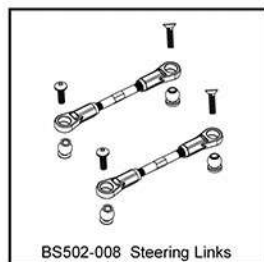
BS502-005 Lower Suspension Arms Front (left/right)



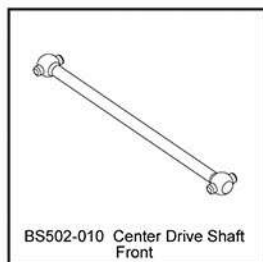
BS502-006 Lower Suspension Arms Rear (left/right)



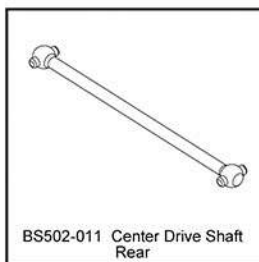
BS502-007 Drive shafts (2pcs)



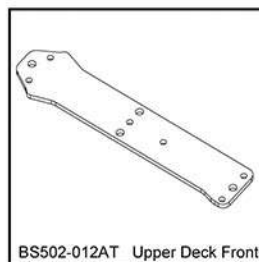
BS502-008 Steering Links



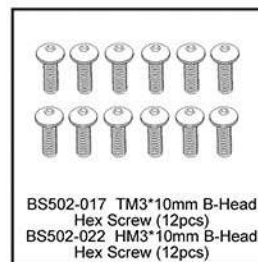
BS502-010 Center Drive Shaft Front



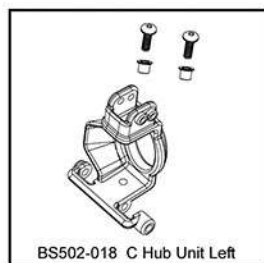
BS502-011 Center Drive Shaft Rear



BS502-012AT Upper Deck Front



BS502-017 TM3*10mm B-Head Hex Screw (12pcs)
BS502-022 HM3*10mm B-Head Hex Screw (12pcs)



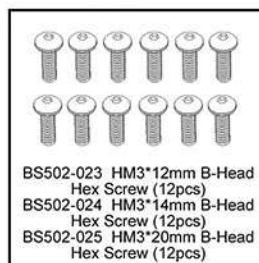
BS502-018 C Hub Unit Left



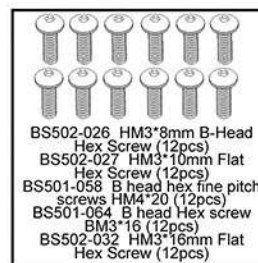
BS502-019 C Hub Unit Right



BS502-021 Steering Block (left/right)



BS502-023 HM3*12mm B-Head Hex Screw (12pcs)
BS502-024 HM3*14mm B-Head Hex Screw (12pcs)
BS502-025 HM3*20mm B-Head Hex Screw (12pcs)



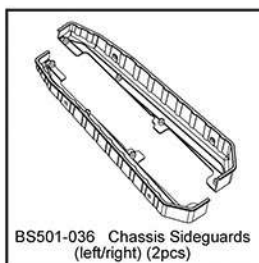
BS502-026 HM3*8mm B-Head Hex Screw (12pcs)
BS502-027 HM3*10mm Flat Hex Screw (12pcs)
BS501-058 B head hex fine pitch screws HM4*20 (12pcs)
BS501-064 B head Hex screw BM3*16 (12pcs)
BS502-032 HM3*16mm Flat Hex Screw (12pcs)



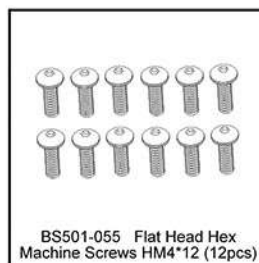
BS809-008 Axles (2pcs)



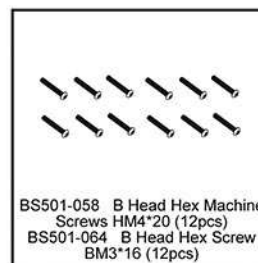
BS809-009AT Motor Heat Sink



BS501-036 Chassis Sideguards (left/right) (2pcs)

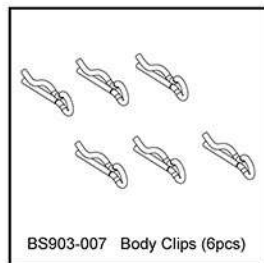


BS501-055 Flat Head Hex Machine Screws HM4*12 (12pcs)

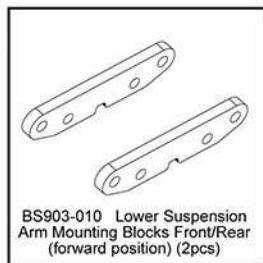


BS501-058 B Head Hex Machine Screws HM4*20 (12pcs)
BS501-064 B Head Hex Screw BM3*16 (12pcs)

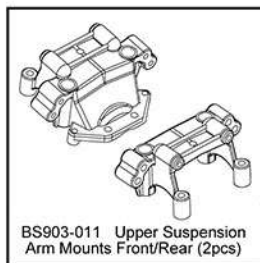
PARTS IDENTIFICATION



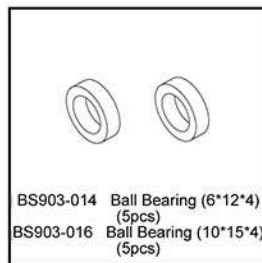
BS903-007 Body Clips (6pcs)



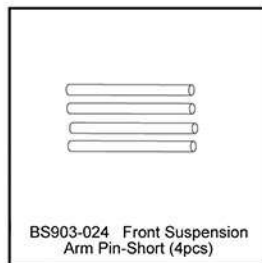
BS903-010 Lower Suspension Arm Mounting Blocks Front/Rear (forward position) (2pcs)



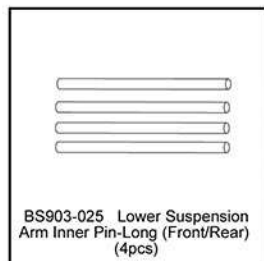
BS903-011 Upper Suspension Arm Mounts Front/Rear (2pcs)



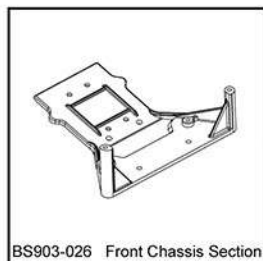
BS903-014 Ball Bearing (6*12*4) (5pcs)
BS903-016 Ball Bearing (10*15*4) (5pcs)



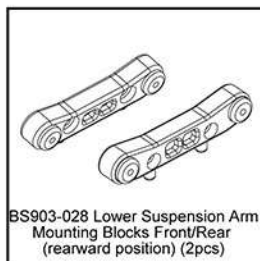
BS903-024 Front Suspension Arm Pin-Short (4pcs)



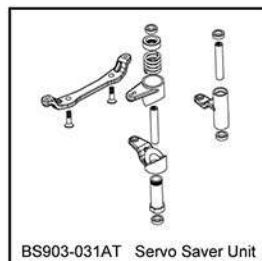
BS903-025 Lower Suspension Arm Inner Pin-Long (Front/Rear) (4pcs)



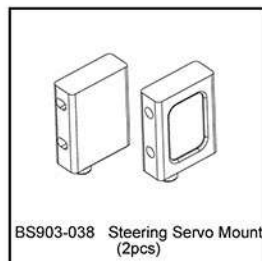
BS903-026 Front Chassis Section



BS903-028 Lower Suspension Arm Mounting Blocks Front/Rear (rearward position) (2pcs)



BS903-031AT Servo Saver Unit



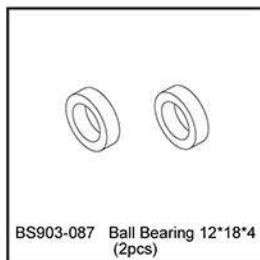
BS903-038 Steering Servo Mount (2pcs)



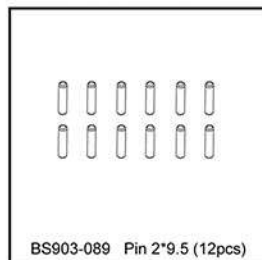
BS903-058 Rear Hub Carriers (left/right) (2pcs)



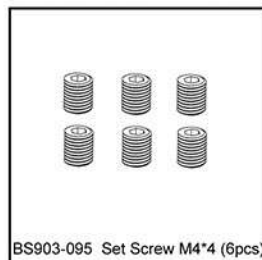
BS903-061 Lower Suspension Arm Outer Pin-Short (Rear) (4pcs)



BS903-087 Ball Bearing 12*18*4 (2pcs)



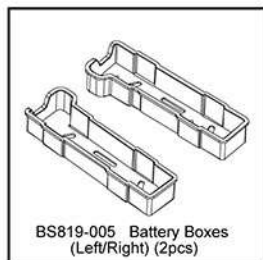
BS903-089 Pin 2*9.5 (12pcs)



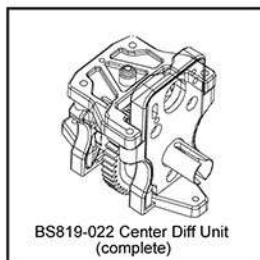
BS903-095 Set Screw M4*4 (6pcs)



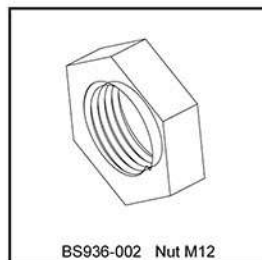
BS503-014 Rear Wing



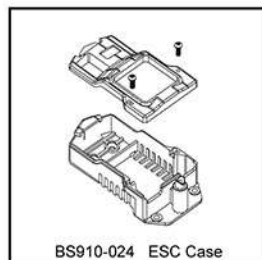
BS819-005 Battery Boxes (Left/Right) (2pcs)



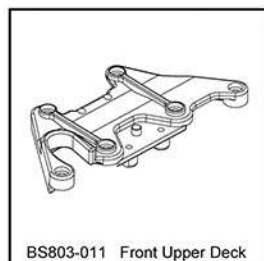
BS819-022 Center Diff Unit (complete)



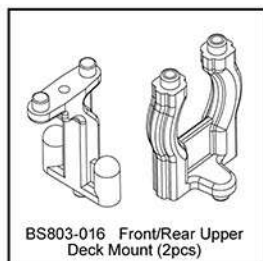
BS936-002 Nut M12



BS910-024 ESC Case



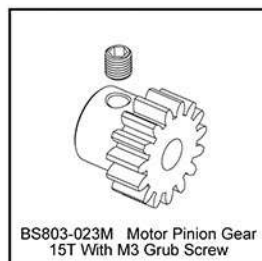
BS803-011 Front Upper Deck



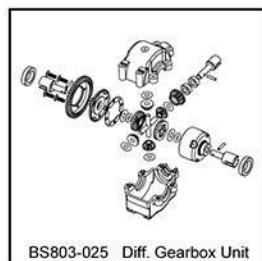
BS803-016 Front/Rear Upper Deck Mount (2pcs)



BS803-018 Wire Guide



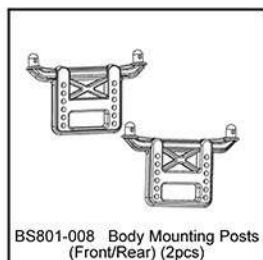
BS803-023M Motor Pinion Gear 15T With M3 Grub Screw



BS803-025 Diff. Gearbox Unit



BS803-026 Diff. Unit



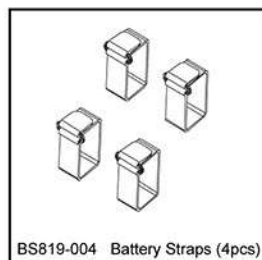
BS801-008 Body Mounting Posts (Front/Rear) (2pcs)



BS218-011 Upper Suspension Arm Inner Threaded Pin 3*50 (Front/Rear) (4pcs)

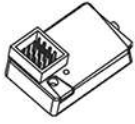


BS810-001 Tires Mounted on Rime (2pcs)

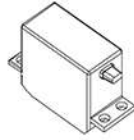


BS819-004 Battery Straps (4pcs)

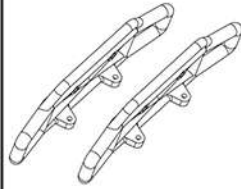
PARTS IDENTIFICATION



28480 2.4GHz Radio Receiver



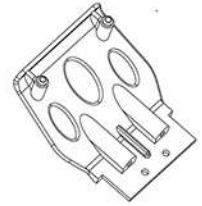
HX-15CS Steering Servo



BS904-003 Bumpers (2pcs)



BS904-004 Bumper Braces (2pcs)



BS904-005 Front Bumper Mount



RCR-2CENR 2.4GHz Radio Transmitter

PERFORMANCE UPGRADES



HX-403 LIPO Balance Charger



HX-580030C-D LIPO Battery
7.4V, 5800mAh, 30C



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IMPORTANT LINKS:

Link to the most recent version of this manual with exploded views and parts lists:
www.redcatracing.com/manuals/SHREDDERMANUAL.pdf

Link to electric vehicles manual:
www.redcatracing.com/manuals/ELECTRIC-MANUAL.pdf