

MODEL: BACKDRAFT 3.5



BACKDRAFT 3.5



MAN-BACKDRAFT35-2016.3.08

•To ensure that you are using the most recent version of this manual:

www.redcatracing.com/manuals/Backdraft35manual.pdf

•To ensure that you have the most recent version of the Nitro Vehicles Manual:

www.redcatracing.com/manuals/NITRO-MANUAL.pdf

WARNING!

READ ALL INSTRUCTIONS INCLUDED WITH VEHICLE BEFORE OPERATING

**AGE WARNING!**

This radio controlled (RC) vehicle is not a toy! You must be 14 years of age or older to operate this vehicle. Adult supervision is required.

**RISK OF RUNAWAY VEHICLE OR INJURY!**

Never start the engine without first having the controller and receiver turned on, and having tested the controls to make sure everything is functioning properly.

**RISK OF FIRE! / RISK OF EXPLOSION!**

There is a risk of fire and explosion when dealing with fuel. Hobby fuels contain Nitromethane and Methyl alcohol which are highly flammable and combustible. Injury or death can occur if proper care is not followed.



Follow all precautions that go along with handling nitro fuel and never allow fuel to be near open sparks or flames of any kind. Only use fuel rated containers. Nitro fuel ignites quickly and emits fumes into the air. The entire area around the fuel may have combustible fumes in the air. This means the air around the fuel can flash ignite causing an explosion. Only use outdoors in a well ventilated area.

**POISONOUS!**

Fuels containing Nitromethane and Methyl alcohol are toxic. Injury or death can occur if swallowed. May irritate skin and cause injury if absorbed into the skin. Injury or death can occur from breathing the toxic fumes. The exhaust emitted from this Radio Control (RC) vehicle's muffler is toxic and can cause injury or death if inhaled. **KEEP AWAY FROM CHILDREN AND PETS!** Never start the engine indoors, not even in a closed garage. Always follow the appropriate nitro fuel safe handling practices.

**RISK OF BURNS!**

The engine, exhaust pipe, and other areas of the vehicle get hot. Burns can occur if touched after vehicle operation. Allow adequate time to cool before handling.

**RISK OF INJURY!**

Hobby grade RC vehicles can cause serious injury or death if not operated correctly. Never use this vehicle in crowds. Never chase people or animals. Drive in safe open areas only. Keep body parts away from moving parts.

**RISK OF DAMAGE!**

Never operate RC vehicles on public roads. Damage of vehicle and property can occur. Injury or death may also occur. Only operate on wide open private property.

**WARNING!**

Do not mix old and new batteries. Do not mix alkaline, lithium, standard (carbon zinc), or rechargeable (nickel cadmium) batteries. Do not change or charge batteries in a hazardous location.



FCC Compliance Statement! The radio included with your vehicle complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operations. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

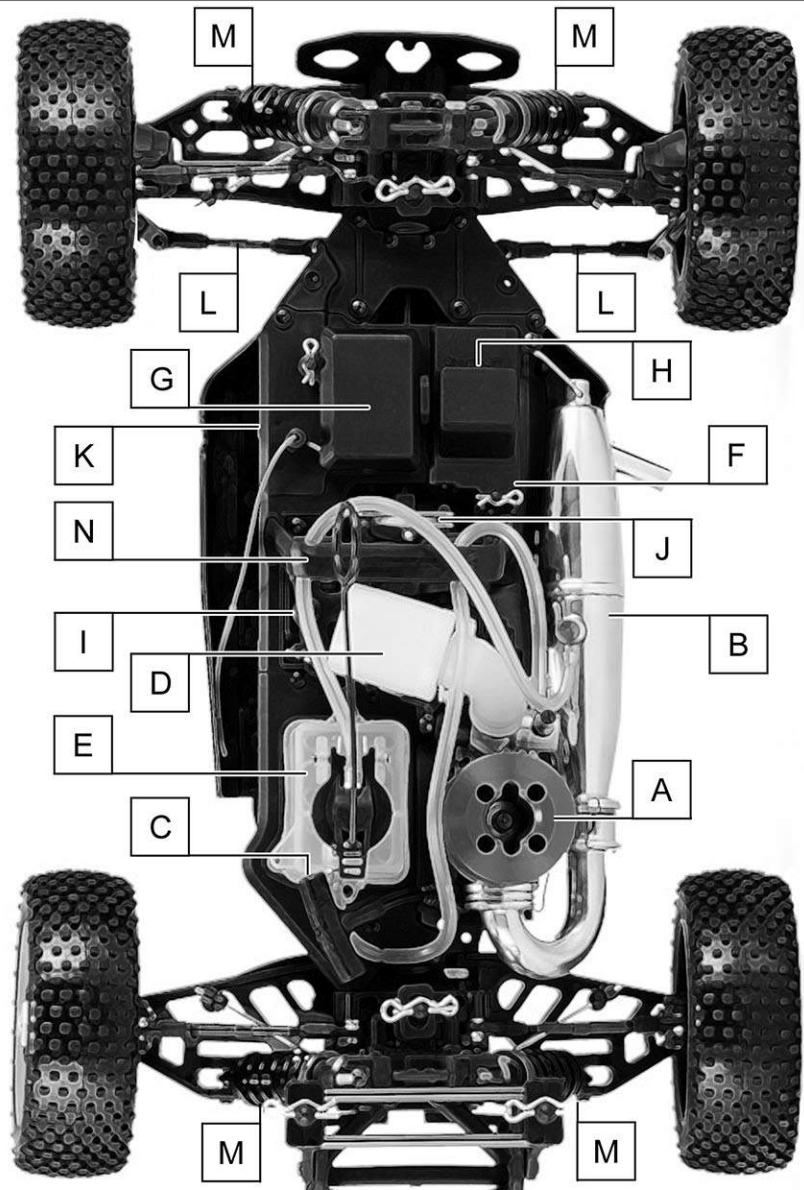
WARNING: While operating the Radio, a separation distance of at least 20 centimeters must be maintained between the radiating antenna and the body of the user or nearby persons in order to meet the FCC RF exposure guidelines.

FEATURES & SPECIFICATIONS

- Powerful 3.5cc. .21 Nitro Engine
- Large 125cc Fuel Tank
- 4 Wheel Drive
- 2-Speed Transmission
- Aluminum Capped Oil Filled Big Bore Shocks
- Composite Disc Brake
- 3.0mm 6061 Aluminum Chassis
- 2.4GHz Radio System
- Scale: 1/8
- Length: 490mm
- Width: 305mm
- Height: 190mm
- Wheelbase: 325mm
- Ground Clearance: 30mm

VEHICLE OVERVIEW

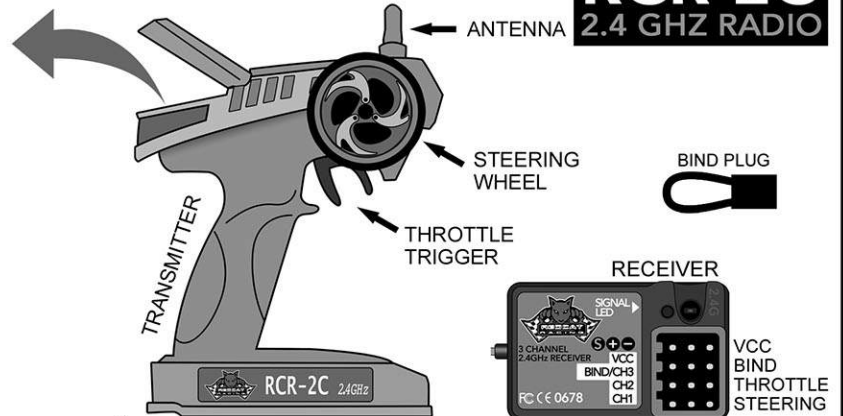
- A:** Engine
- B:** Tuned Pipe
- C:** Pull Starter
- D:** Air Filter
- E:** Fuel Tank
- F:** Receiver Battery
- G:** 2.4GHz Receiver
- H:** On/Off Switch
- I:** Throttle Servo
- J:** Disc Brake
- K:** Steering Servo
- L:** Steering Linkage
- M:** Oil Filled Shocks
- N:** Carry Handle



RADIO GUIDE

RCR-2C
 2.4 GHZ RADIO

CONTROL PANEL



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.

Battery Level 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 & 6= 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.

VCC: Used to power the servos and receiver, through a receiver battery.

BIND/CH3: Used when binding to transmitter. Used for 3rd channel when needed.

CH2: Used for throttle servo.

CH1: Used for steering servo.

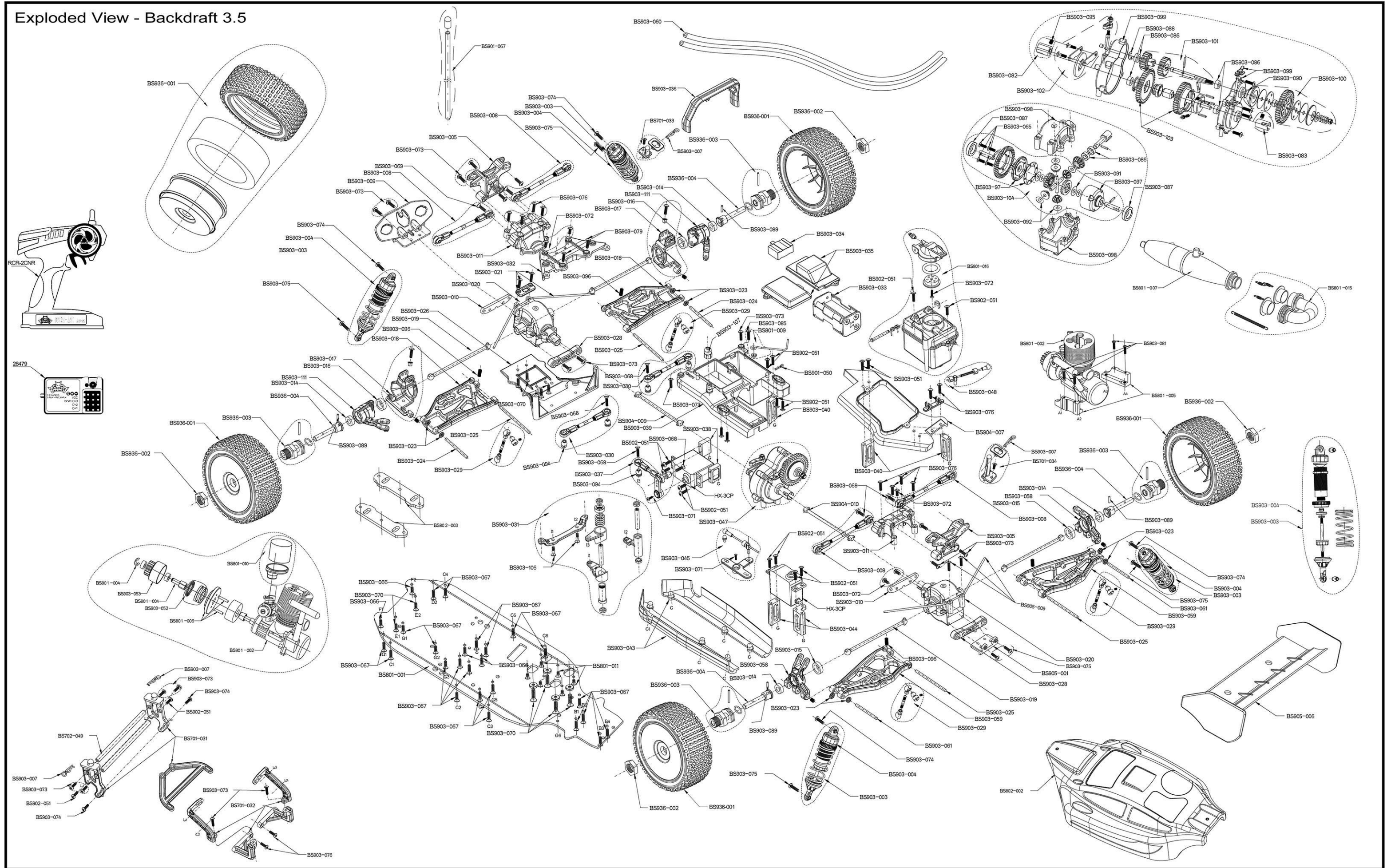
Binding:

1. Make sure the vehicle On/Off switch is turned OFF and plugged into the VCC port.
2. Insert the bind plug into the Bind/Ch3 port.
3. Plug a fresh set of receiver batteries into the On/Off switch and power the vehicle on.
- Do NOT start the engine!** The receiver light should now begin to blink red.
4. Press and hold the BIND button in the center of the transmitter's Control Panel and turn on the radio.
5. Release the bind button when you see the green light on the radio flashing. At this point, your receiver's LED should now be solid red. If so, turn off the power to your vehicle, as well as the radio.
6. Remove the BIND PLUG from the receiver and reinstall the servos as well as the receiver battery, according to the paragraph above.
7. Now turn your radio and vehicle on as normal. Your radio and receiver should be bound together and communicating with each other.

PARTS LIST

Item No.	Description	Item No.	Description
BS702-049	Aluminum Rollcage Beam, Blue 2pcs	BS903-081	Column Head Hex Screw (3*10mm) 6pcs
BS802-002	Body Blue and Black	BS903-082	Diff. Outdrive W/Set Screw
BS802-002C	Body Clear W/Decals	BS903-083	Diff Outdrive C W/Set Screw
BS905-001	Rear Susp. Mount Block Support	BS903-084	Receiver Battery Pack 6V NIMH
BS905-006	Tail Wing Black	BS903-086	Bal Bearing (5*10*4) 2pcs
BS905-006W	Tail Wing White	BS903-087	Bal Bearing (12*18*4) 2pcs
BS905-009	Rear Anti-roll Bar Set	BS903-088	E-Clip (4*0.6mm) 12pcs
BS933-011	Clutch Bell 15T	BS903-089	Pin (2*10) 12pcs
BS903-003	Shocks Plastic 2pcs	BS903-090	Pin (2*12.5) 12pcs
BS903-004	Shocks Aluminum 2pcs	BS903-091	Washer A (5.2*10*0.2) 12pcs
BS903-005	Shock Tower	BS903-092	Washer B (4.2*8*0.2) 12pcs
BS903-007	Body Pin 1.5mm 6pcs	BS903-094	Double Way Ball End 6pcs
BS903-008	Upper Susp. Arm 2Set	BS903-095	Grub (Set) Screw (M4*4) 6pcs
BS903-009	Front Bumper 1pcs	BS903-096	Grub (Set) Screw (M4*8) 6pcs
BS903-010	Susp. Arm Mount 2pcs	BS903-097	Diff. Gearbox
BS903-011	Upper Susp. Arm Mount Front/Rear	BS903-098	Diff. gearbox Bulkhead Upper/Lower
BS903-014	Ball Bearings (6*12*4) 2pcs	BS903-099	Gearbox Front/Rear
BS903-111	Cast Alum. Steering Knuckle L/R (4mm)	BS903-101	2-Speed Pinion Gear 18T/19T
BS903-016	Ball Bearing (10*15*4) 2pcs	BS903-102	Brake Set for 2-Speed
BS903-017	C Hub L/R W/Screws/Bushings	BS903-103	2-Speed Gear Assembly 40T/37T
BS903-018	Front Lower Susp. Arm L/R 2pcs	BS903-106	Srew Pin (M3*9.5) 12pcs
BS903-019	Drive Shaft Set (4*87.5mm) 2pcs	BS903-107	Antenna Mount 3pcs
BS903-020	Complete Differential and Housing	BS903-108	Receiver Battery Charger (for NIMH RX pack)
BS903-021	Anti-Roll Bar Set	BS904-007	Upper Deck Rear
BS903-023	O-Washer 8pcs	BS904-009	Dogbone Front (3.5*98.3mm)
BS903-024	Front Hinge Pin Short (3*37.5mm) 4pcs	BS904-010	Dogbone Rear (3.5*108.3mm)
BS903-025	Susp. Hinge Pins Long (3*56mm) 4pcs	BS901-050	Body Clip (1.0) 12pcs
BS903-026	Front Chassis Plate	BS901-067	Antenna Pipe W/Cap For 2.4GHz 3pcs
BS903-028	Lower Susp. Mount Block Front/Rear	BS903-004	Aluminum Shock 2pcs
BS903-029	Anti-Roll Bar Linkage Set 1pcs	BS902-051	B-Head Cross Screw (BT3*10) 12pcs
BS903-030	Steering Linkage 2Sets	RCR-2CNR	2.4GHz Transmitter
BS903-031	Servo Saver Unit	28479	2.4GHz 2ch Receiver Splashproof
BS903-032	Upper Deck Front	HX-3CP	3KG Servo
BS903-033	Battery Case	BS936-001	Tire/Wheel Set Black 2pcs
BS903-034	On/Off Switch	BS936-001W	Tire/Wheel Set White 2pcs
BS903-035	Receiver/Battery Case Cover	BS936-002	17mm Wheel Nut
BS903-036	Handle 1pcs	BS936-003	17mm Wheel Hub
BS903-037	Steering Servo Horn/Linkage	BS936-004	Front/Rear Stub Axle
BS903-038	Steering Servo Mount A/B	BS801-001	Chassis Alum. 1pcs
BS903-039	Upper Deck Center	BS801-002	.21 Nitro Engine
BS903-040	Upper Deck Mount 2pcs	BS801-003	Engine Mount Plate W/Screws
BS903-043	Side Guard Plate L/R	BS801-004	Engine Crankshaft Nut W/E-Clip
BS903-044	Throttle Servo Mount A/B	BS801-005	Engine Mount L/R
BS903-045	Throttle Servo Horn and Linkage Set	BS801-006	Engine Flywheel W/Pin
BS903-048	Throttle Linkage Set	BS801-007	Metal Exhaust Pipe
BS903-052	Clutch Shoes W/Spring Aluminum	BS801-009	Alum. Exhaust Linkage
BS903-058	Hub Carrier Rear	BS801-010	Air Filter W/Insert
BS903-059	Rear Lower Susp. Arms L/R	BS801-011	ISO4*10 Flat Cross Screw W/Washer 4Set
BS903-060	Fuel Tubing and Mount	BS801-012	Complete Gearbox Assembly
BS903-061	Rear Susp. Arm Pin Short (3*34.5mm)	BS801-013	Slipper Clutch Assembly
BS903-065	Flat Cross Screw (TPF2.6*10) 12pcs	BS801-014	Spur Gear 43T
BS903-066	TPF3*8mm 12pcs	BS801-015	Exhaust Manifold
BS903-067	TPF3*10mm 12pcs	BS801-016	Fuel Tank Unit
BS903-068	Flat Cross Screw (TPF3*14) 12pcs	BS801-019	Air Filter Unit W/Insert
BS903-069	Flat Cross Screw (TPF3*16) 12pcs	BS701-031	Tail Wing Mount
BS903-070	Flat Cross Screw (ISO3*10) 12pcs	BS701-032	Rollcage Post Set
BS903-071	B-Head Screw (BT2.6*6) 12pcs	BS701-033	Body Post Front
BS903-072	B-Head Screw (BT3*8) 12pcs	BS701-034	Body Post Rear
BS903-073	B-Head Screw (BT3*12) 12pcs		
BS903-074	B-Head Cross Screw (3*14mm) 12pcs		
BS903-075	B-Head Cross Screw (BT3*16) 12pcs		
BS903-076	B-Head Cross Screw (BT3*20) 12pcs		

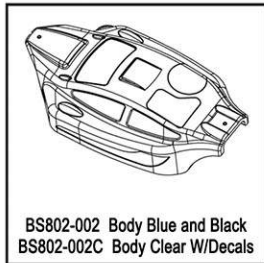
Exploded View - Backdraft 3.5



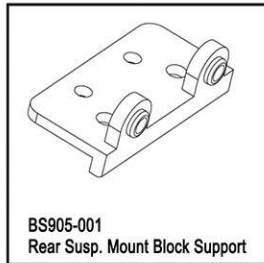
PARTS IDENTIFICATION



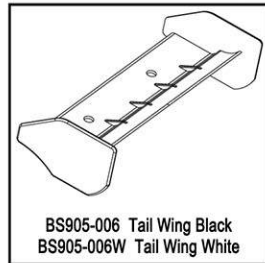
BS702-049 Aluminum Rollcage Beam, Blue 2pcs



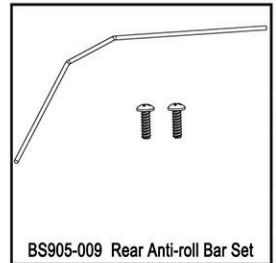
BS802-002 Body Blue and Black
BS802-002C Body Clear W/Decals



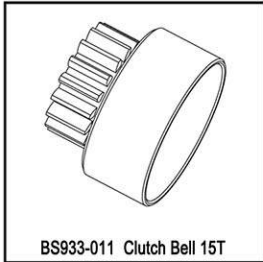
BS905-001 Rear Susp. Mount Block Support



BS905-006 Tail Wing Black
BS905-006W Tail Wing White



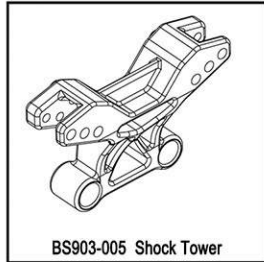
BS905-009 Rear Anti-roll Bar Set



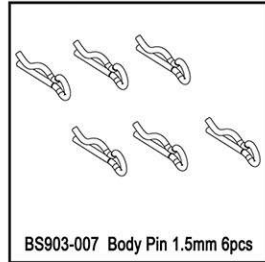
BS933-011 Clutch Bell 15T



BS903-003 Shocks Plastic 2pcs
BS903-004 Shocks Aluminum 2pcs



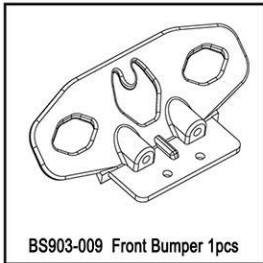
BS903-005 Shock Tower



BS903-007 Body Pin 1.5mm 6pcs



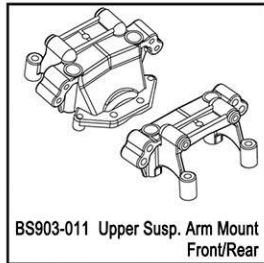
BS903-008 Upper Susp. Arm 2Set



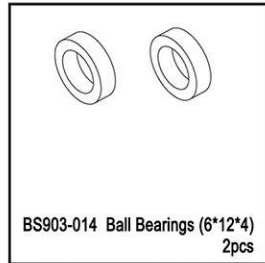
BS903-009 Front Bumper 1pcs



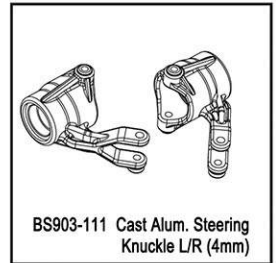
BS903-010 Susp. Arm Mount 2pcs



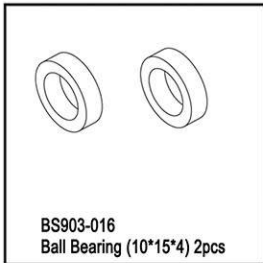
BS903-011 Upper Susp. Arm Mount Front/Rear



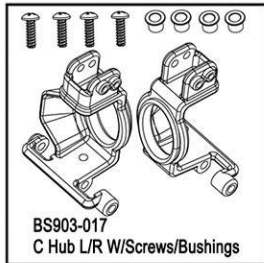
BS903-014 Ball Bearings (6*12*4) 2pcs



BS903-111 Cast Alum. Steering Knuckle L/R (4mm)



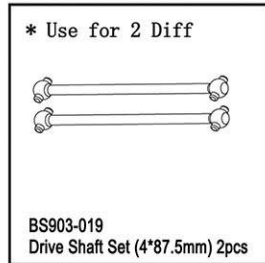
BS903-016 Ball Bearing (10*15*4) 2pcs



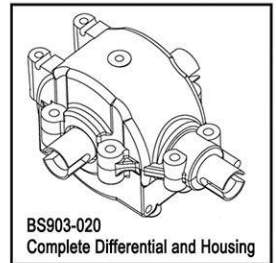
BS903-017 C Hub L/R W/Screws/Bushings



BS903-018 Front Lower Susp. Arm L/R 2pcs



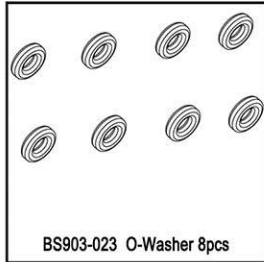
BS903-019 Drive Shaft Set (4*87.5mm) 2pcs



BS903-020 Complete Differential and Housing



BS903-021 Anti-Roll Bar Set (Requires BS903-029 Hardware)



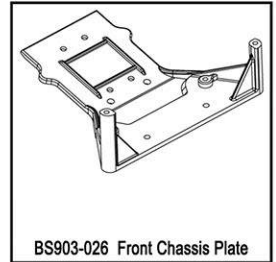
BS903-023 O-Washer 8pcs



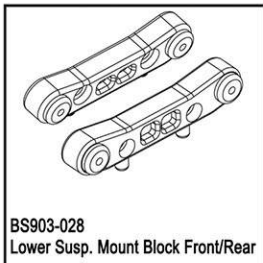
BS903-024 Front Hinge Pin Short (3*37.5mm) 4pcs



BS903-025 Susp. Hinge Pins Long (3*56mm) 4pcs



BS903-026 Front Chassis Plate



BS903-028 Lower Susp. Mount Block Front/Rear



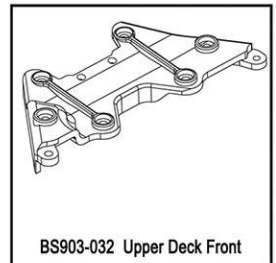
BS903-029 Anti-Roll Bar Linkage Set 1pcs (Requires 2pcs Per Roll Bar)



BS903-030 Steering Linkage 2Sets



BS903-031 Servo Saver Unit

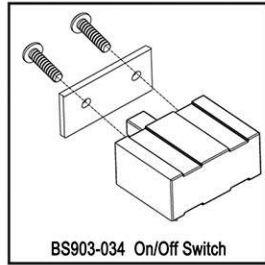


BS903-032 Upper Deck Front

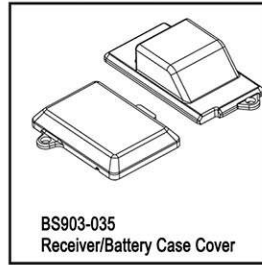
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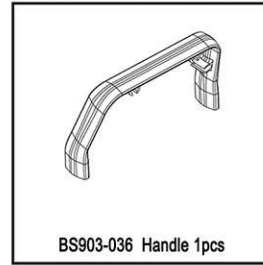
BS903-033 Battery Case



BS903-034 On/Off Switch



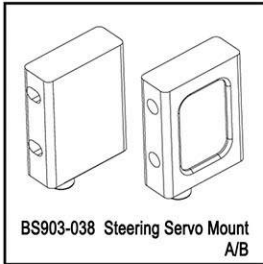
BS903-035 Receiver/Battery Case Cover



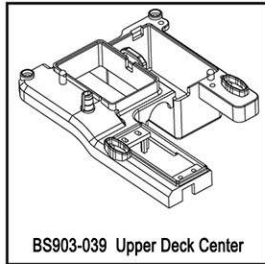
BS903-036 Handle 1pcs



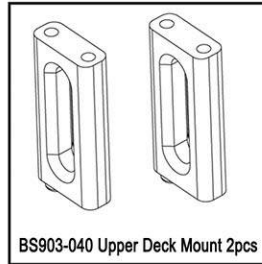
BS903-037 Steering Servo Horn/Linkage



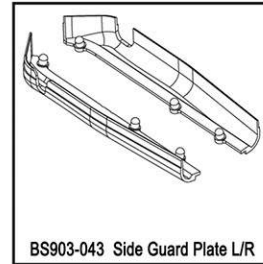
BS903-038 Steering Servo Mount A/B



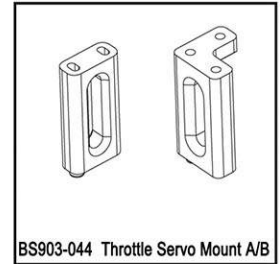
BS903-039 Upper Deck Center



BS903-040 Upper Deck Mount 2pcs



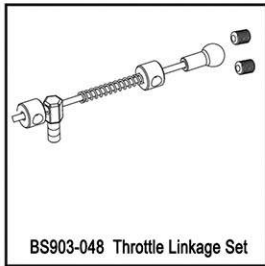
BS903-043 Side Guard Plate L/R



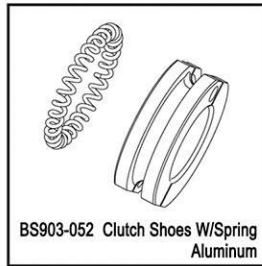
BS903-044 Throttle Servo Mount A/B



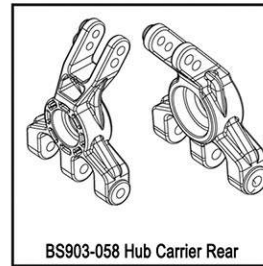
BS903-045 Throttle Servo Horn and Linkage Set



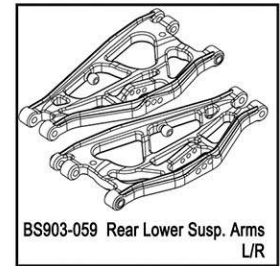
BS903-048 Throttle Linkage Set



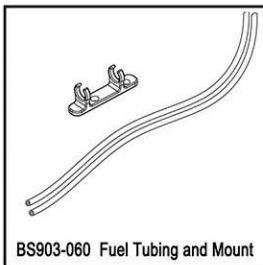
BS903-052 Clutch Shoes W/Spring Aluminum



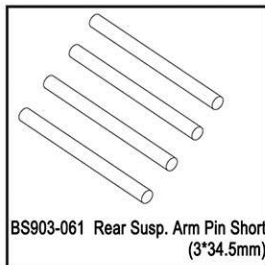
BS903-058 Hub Carrier Rear



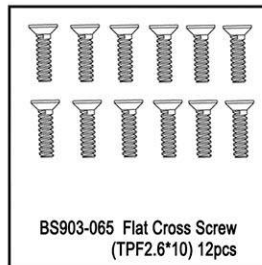
BS903-059 Rear Lower Susp. Arms L/R



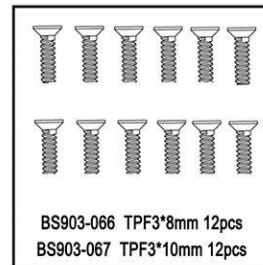
BS903-060 Fuel Tubing and Mount



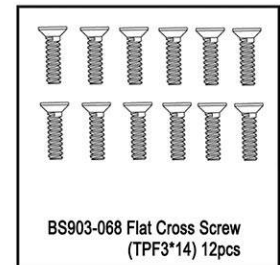
BS903-061 Rear Susp. Arm Pin Short (3*34.5mm)



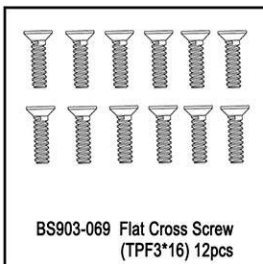
BS903-065 Flat Cross Screw (TPF2.6*10) 12pcs



BS903-066 TPF3*8mm 12pcs
BS903-067 TPF3*10mm 12pcs



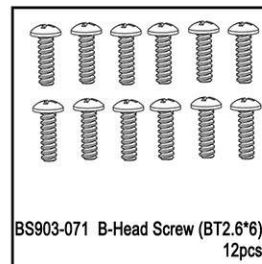
BS903-068 Flat Cross Screw (TPF3*14) 12pcs



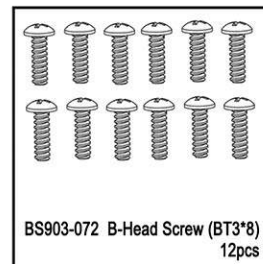
BS903-069 Flat Cross Screw (TPF3*16) 12pcs



BS903-070 Flat Cross Screw (ISO3*10) 12pcs



BS903-071 B-Head Screw (BT2.6*6) 12pcs



BS903-072 B-Head Screw (BT3*8) 12pcs



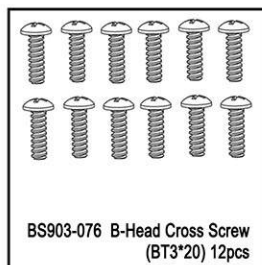
BS903-073 B-Head Screw (BT3*12) 12pcs



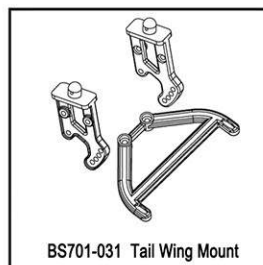
BS903-074 B-Head Cross Screw (3*14mm) 12pcs



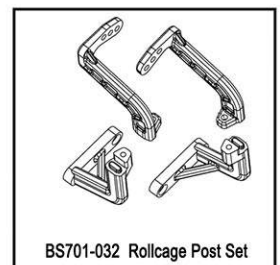
BS903-075 B-Head Cross Screw (BT3*16) 12pcs



BS903-076 B-Head Cross Screw (BT3*20) 12pcs



BS701-031 Tail Wing Mount

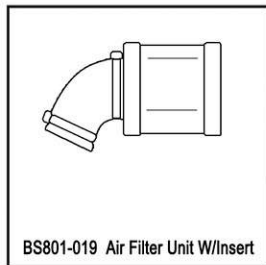


BS701-032 Rollcage Post Set

PARTS IDENTIFICATION



BS801-016 Fuel Tank Unit



BS801-019 Air Filter Unit W/Insert



BS903-081 Column Head Hex Screw (3*10mm) 6pcs



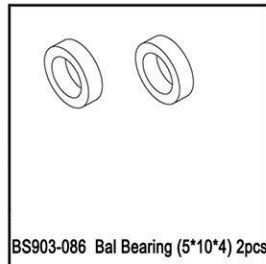
BS903-082 Diff. Outdrive W/Set Screw



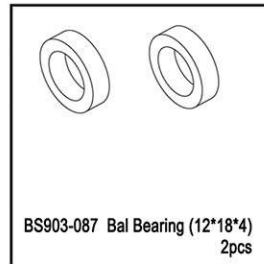
BS903-083 Diff Outdrive C W/Set Screw



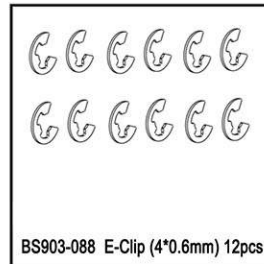
BS903-084 Receiver Battery Pack 6V NIMH



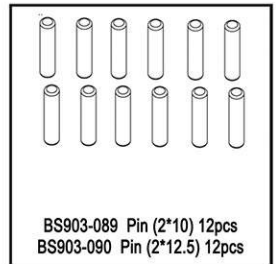
BS903-086 Bal Bearing (5*10*4) 2pcs



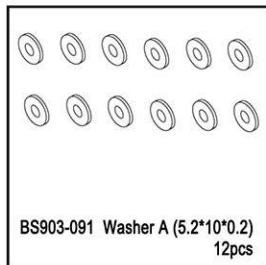
BS903-087 Bal Bearing (12*18*4) 2pcs



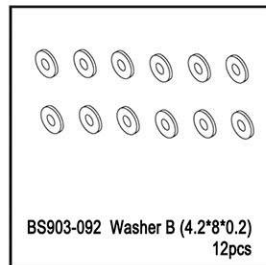
BS903-088 E-Clip (4*0.6mm) 12pcs



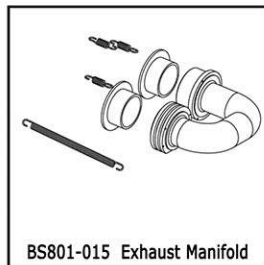
BS903-089 Pin (2*10) 12pcs
BS903-090 Pin (2*12.5) 12pcs



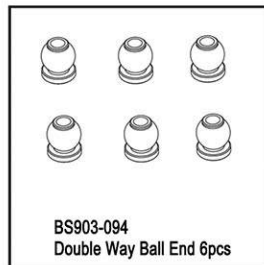
BS903-091 Washer A (5.2*10*0.2) 12pcs



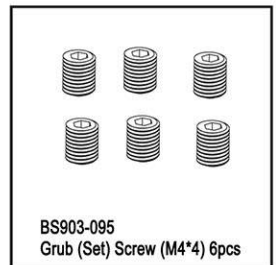
BS903-092 Washer B (4.2*8*0.2) 12pcs



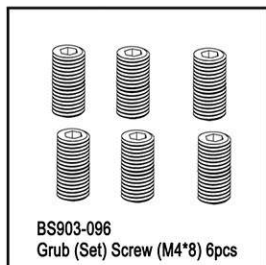
BS801-015 Exhaust Manifold



BS903-094 Double Way Ball End 6pcs



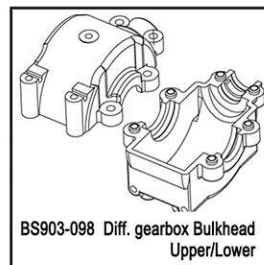
BS903-095 Grub (Set) Screw (M4*4) 6pcs



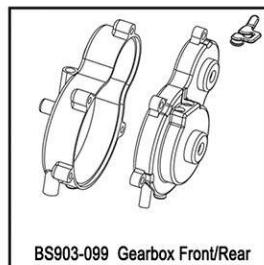
BS903-096 Grub (Set) Screw (M4*8) 6pcs



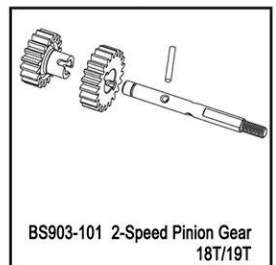
BS903-097 Diff. Gearbox



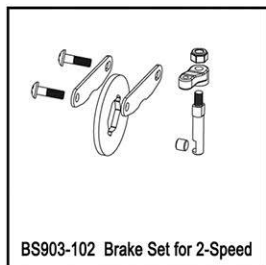
BS903-098 Diff. gearbox Bulkhead Upper/Lower



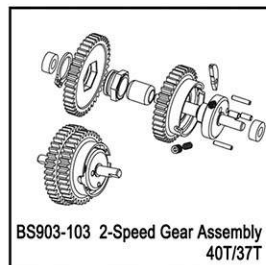
BS903-099 Gearbox Front/Rear



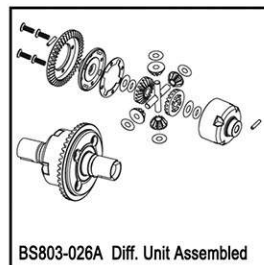
BS903-101 2-Speed Pinion Gear 18T/19T



BS903-102 Brake Set for 2-Speed



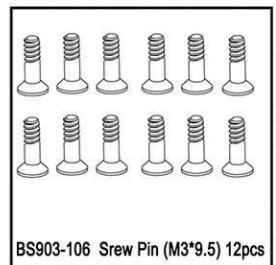
BS903-103 2-Speed Gear Assembly 40T/37T



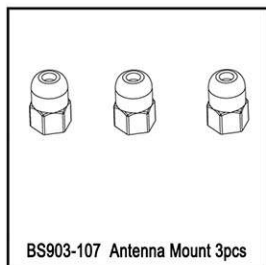
BS803-026A Diff. Unit Assembled



BS803-027 Ring/Pinion, Diff. Gears, Bevel Gears



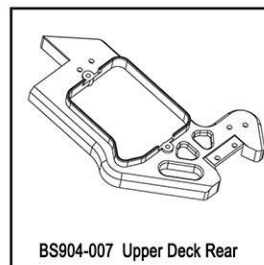
BS903-106 Srew Pin (M3*9.5) 12pcs



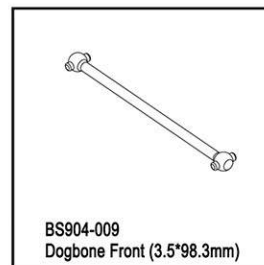
BS903-107 Antenna Mount 3pcs



BS903-108 Receiver Battery Charger Only For NIMH receiver Pack



BS904-007 Upper Deck Rear

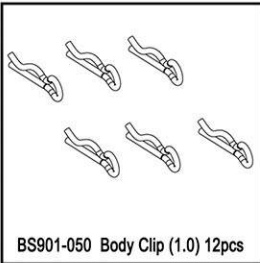


BS904-009 Dogbone Front (3.5*98.3mm)

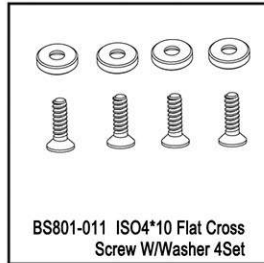


BS904-010 Dogbone Rear (3.5*108.3mm)

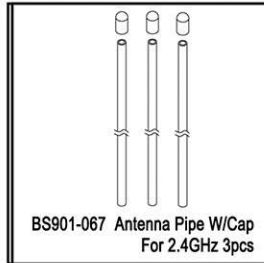
PARTS IDENTIFICATION



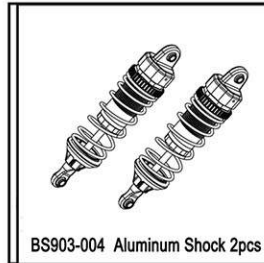
BS901-050 Body Clip (1.0) 12pcs



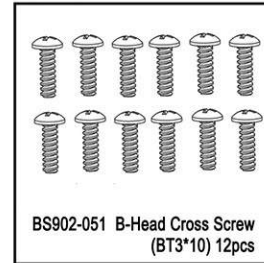
BS801-011 ISO4*10 Flat Cross Screw W/Washer 4Set



BS901-067 Antenna Pipe W/Cap For 2.4GHz 3pcs



BS903-004 Aluminum Shock 2pcs



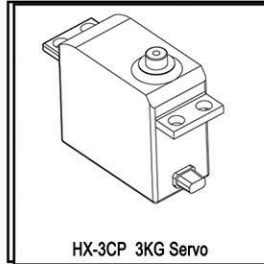
BS902-051 B-Head Cross Screw (BT3*10) 12pcs



RCR-2CNR 2.4GHz Transmitter



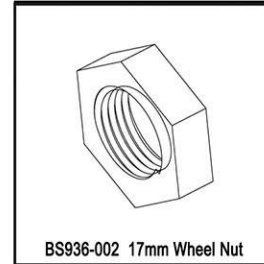
28479 2.4GHz 2ch Receiver Splashproof



HX-3CP 3KG Servo



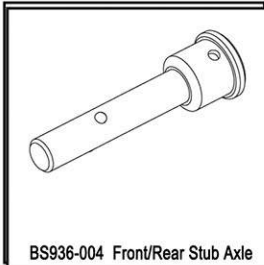
BS936-001 Tire/Wheel Set Black 2pcs
BS936-001W Tire/Wheel Set White 2pcs



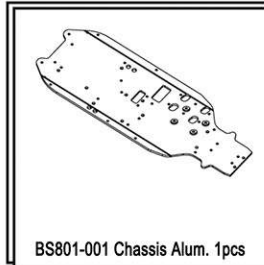
BS936-002 17mm Wheel Nut



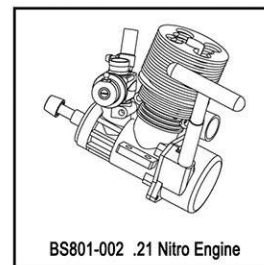
BS936-003 17mm Wheel Hub



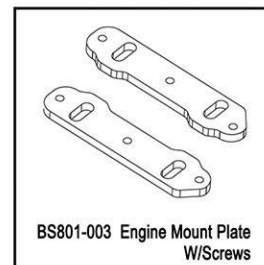
BS936-004 Front/Rear Stub Axle



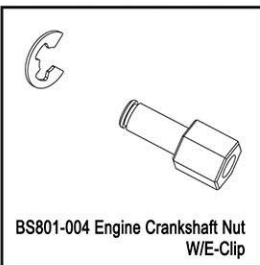
BS801-001 Chassis Alum. 1pcs



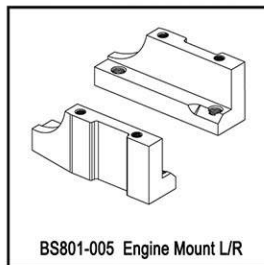
BS801-002 .21 Nitro Engine



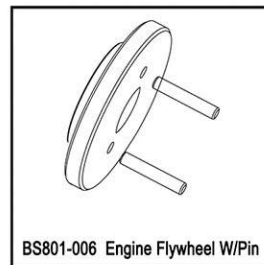
BS801-003 Engine Mount Plate W/Screws



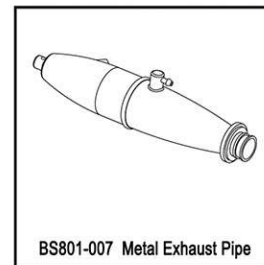
BS801-004 Engine Crankshaft Nut W/E-Clip



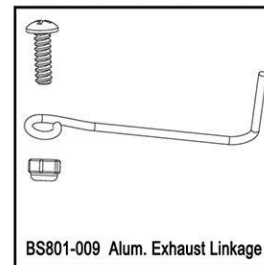
BS801-005 Engine Mount L/R



BS801-006 Engine Flywheel W/Pin



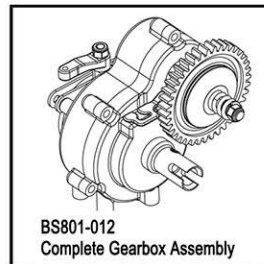
BS801-007 Metal Exhaust Pipe



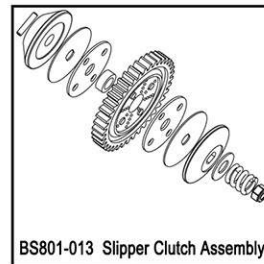
BS801-009 Alum. Exhaust Linkage



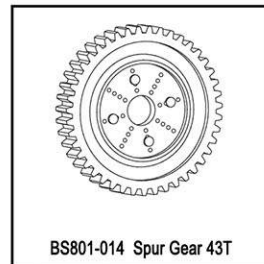
BS801-010 Air Filter W/Insert



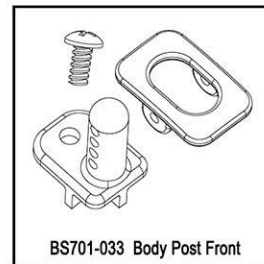
BS801-012 Complete Gearbox Assembly



BS801-013 Slipper Clutch Assembly



BS801-014 Spur Gear 43T



BS701-033 Body Post Front



BS701-034 Body Post Rear

PARTS IDENTIFICATION



MPO-11 Steering Linkage
Aluminum



MPO-13 Slipper Clutch Discs
Hard Anodized



MPO-02 Front Hub Carriers
Machined Aluminum 4mm
(Requires BS903-111 or MPO-03)



MPO-03 Front Steering Knuckle Set
Machined Aluminum 4mm
(Requires MPO-02)



MPO-04 Rear Hub Carriers
Machined Aluminum



MPO-05 Shock Tower
Machined Aluminum



MPO-06 Rear Suspension Mount
For Front Gearbox



MPO-07 Rear Suspension Mount
For Rear Gearbox



MPO-08 Steel Brake Disc
(Required For MPO-09)



MPO-09 Special Brake Pads
(Required For MPO-08)



MPO-10 Brake Post Lever Arm
Aluminum



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