

MODEL: EARTHQUAKE 3.5



1/8 SCALE MONSTER TRUCK

EARTHQUAKE 3.5

OWNERS MANUAL



Fast • Affordable • Fun

MAN-EARTHQUAKE35-2016.02.15-V4

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

<http://www.redcatracing.com/manuals/Earthquake35manual.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
- Oil Filled Big Bore Shocks
- Composite Disc Brake
- 3.0mm 6061 Aluminum Chassis
- 2.4GHz Radio System
- Scale: 1/8
- Length: 510mm
- Width: 380mm
- Height: 250mm
- Wheelbase: 325mm
- Ground Clearance: 58mm

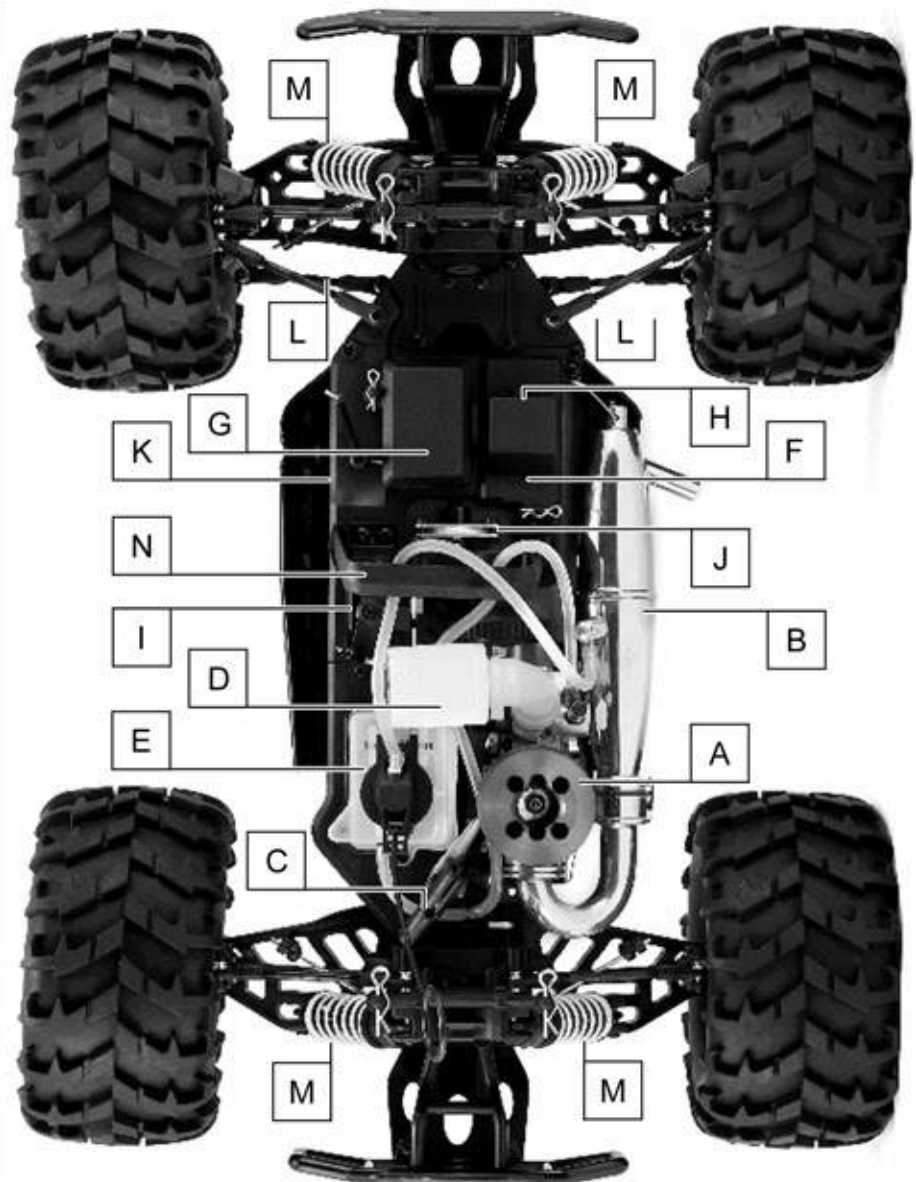
VEHICLE OVERVIEW

- 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/Roll Bar

Note: This vehicle requires AA batteries in both the transmitter and receiver to operate.

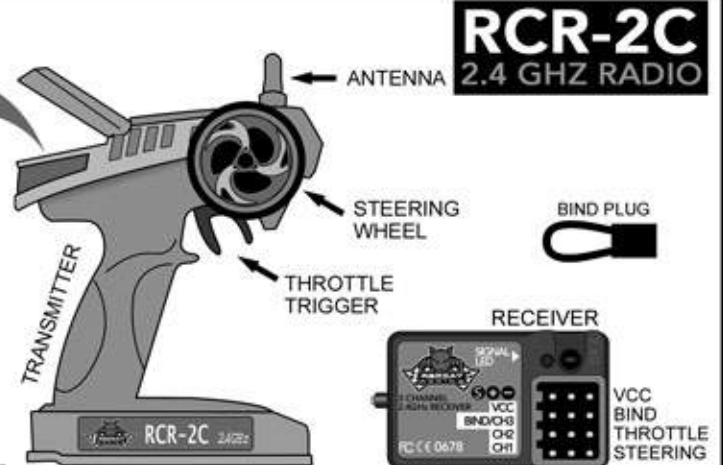
WARNING!

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.



RADIO GUIDE

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.

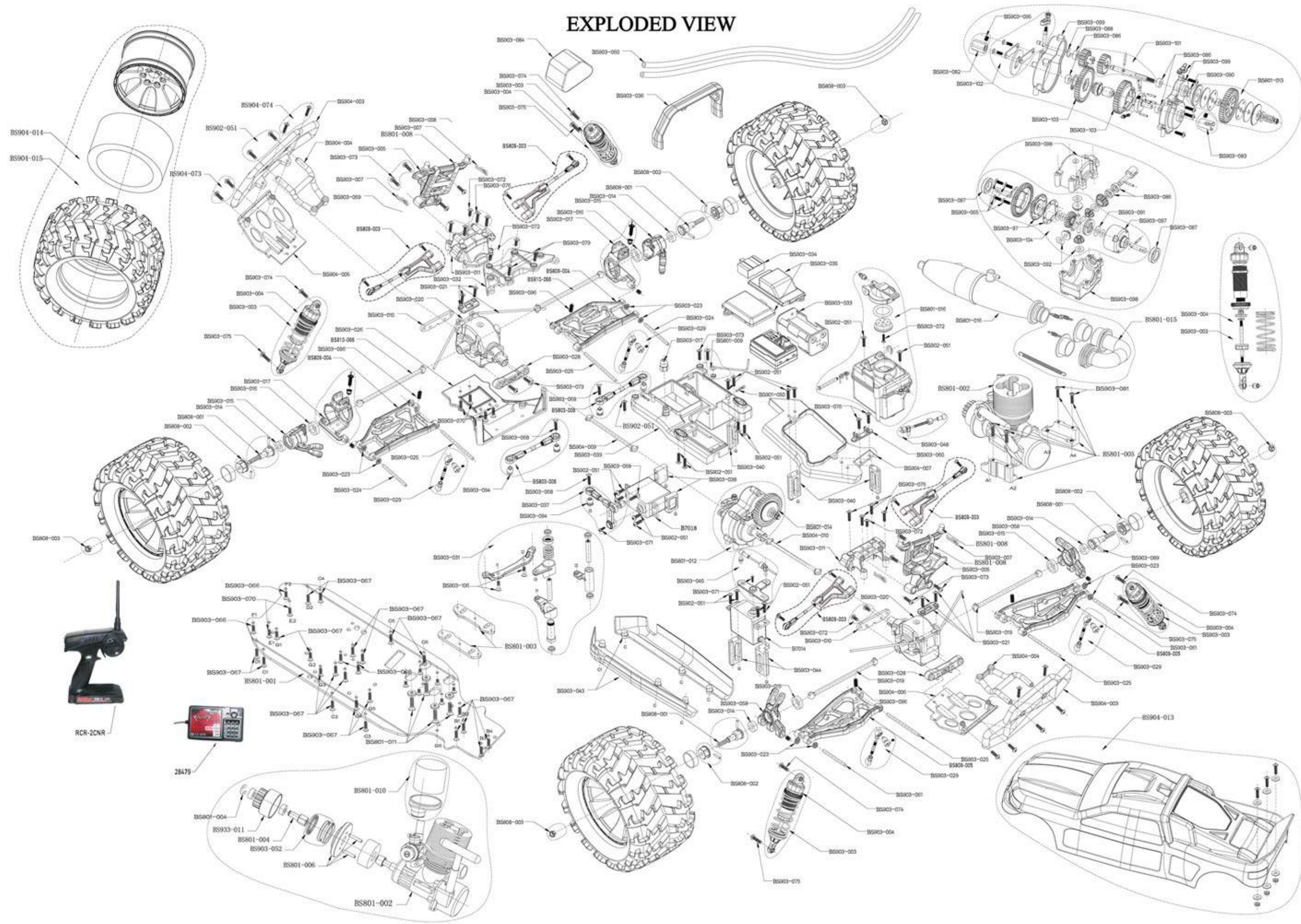
PARTS LIST

BS904-001	Mounted knobby tires/rim (white) 2pcs	BS903-045	Throttle servo horn and linkage set
BS904-002	Mounted knobby tires/rim (chrome) 2 pcs	BS903-048	Throttle linkage set
BS904-003	Bumper 2pcs	BS903-052	Clutch shoe w/spring
BS904-004	Bumper brace 2pcs	BS903-058	Rear hub
BS904-005	Bumper chassis-Front 1pcs	BS809-005	Rear lower susp. arm Left/Right
BS904-006	Bumper chassis-Rear 1pcs	BS903-060	Fuel tubing & hoop
BS904-007	Upper plate-Rear 1pcs	BS903-061	Rear suspension arm pin-short
BS904-009	Dogbone-Front 1pcs	BS903-065	TPF2.6*10 flat cross screw 12pcs
BS904-010	Dogbone-Rear 1pcs	BS903-066	TPF3*8 flat cross screw 12pcs
BS904-013	Silk-screened body 1pcs	BS903-067	TPF3*10 flat cross screw 12pcs
BS904-014	Mounted tire/rim (white) 2pcs	BS903-068	TPF3*14 flat cross screw 12pcs
BS904-015	Mounted tire/rim (chrome) 2pcs	BS903-069	TPF3*16 flat cross screw 12pcs
BS903-003	Shock assembly (plastoc) 2pcs	BS903-070	ISO 3*10 flat cross screw 12pcs
BS903-004	Shock assembly (alum.) 2pcs	BS903-071	BT 2.6*6 B-head cross screw 12pcs
BS903-005	Shock tower Front/Rear 1pcs	BS903-072	BT 3*8 B-head cross screw 12pcs
BS903-007	Body pin 6pcs	BS903-073	BT 3*12 B-head cross screw 12pcs
BS809-003	Upper susp. Arm set	BS903-074	BT 3*14 B-head cross screw 12pcs
BS903-010	Suspension arm mount block 2pcs	BS903-075	BT 3*16 B-head cross screw 12pcs
BS903-011	Upper susp. arm mount Front/Rear	BS903-076	BT 3*20 B-head cross screw 12pcs
Bs808-002	Rim hub w/pin 2*10 4pcs	BS903-079	BM 3*10 B-head cross screw 12pcs
BS808-001	Axle w/pin 2pcs	BS903-081	HM 3*10 Cap head hex screw 6pcs
BS903-014	Ball bearing (6*12*4) 2pcs	BS903-082	Diff. outdrive D/M4*4 set screw
BS903-015	Steering arm	BS903-083	Diff. ouutdriver C?M4*4 set screw
BS903-016	Ball bearing (10*15*4) 2pcs	BS903-084	Battery pack 6V NiMh 1pcs
BS903-017	C-carrier w/screw	BS903-086	Ball bearing (5*10*4) 2pcs
BS809-004	Front lower susp. arm Left/Right	BS903-087	Ball bearing (12*18*4) 2pcs
BS910-066	Transverse driver shaft	BS903-088	E-clip (4*0.6) 12pcs
BS903-020	Diff. gearbox unit	BS903-089	Pin (2*9.5) 12pcs
BS903-021	Anti-roll bar set	BS903-090	Pin (2*12.5) 12pcs
BS903-023	O-washer 4pcs	BS903-091	Washer A (5.2*10*0.2) 12pcs
BS903-024	Front suspension arm pin-short 4pcs	BS903-092	Washer B (4.2*8*0.2) 12pcs
BS903-025N	Susp. arm pin -long 4pcs	BS808-003	M5 nylon lock nut 6pcs
BS903-026	Front chassis	BS903-094	Double way ball end 6pcs
BS903-028	Lower susp. mount block front/rear	BS903-095	M4*4 grub screw 6pcs
BS903-029	Anti-roll bar mount set	BS903-096	M4*8 grub screw 6pcs
BS809-012	Servo saver link 2pcs	BS903-097	Diff. gearbox
BS903-031	Servo saver unit	BS903-098	Diff. gearbox bulkhead upper/lower
BS903-032	Upper deck Front	BS903-099	Gearbox bulkhead front/rear
BS903-033	Battery case 1pcs	BS903-101	Pinion gear 18T/19T/pin
BS903-034	Switch/switch cover/screw	BS903-102	Brake set
BS903-035	Receiver/battery case cover	BS903-103	Gear 40T/37T
BS903-036	Handle	BS903-104	Diff. unit
BS903-037	Steering servo horn and linkage	BS903-105	Drive/driven gear, Diff. gear/bevel gears
BS903-038	Steering servo mount - A/B	BS903-106	Screw pin (M3*9.5) 12pcs
BS903-039	Upper deck-center 1pcs	BS903-107	Screw (M2.5*13) 12pcs
BS903-040	Upper deck mount 1pcs	BS903-108	Charger 1pcs
BS903-043	Side guard plate Left/Right	BS901-067	Antenna tube w/cap 3pcs
BS903-044	Throttle servo mount A/B	BS902-051	BT 3*10 B-head cross screw 12pcs

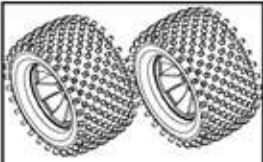
PARTS LIST

BS801-001 Chassis
BS801-002 Engine .21
BS801-003 Engine washer/screw
BS801-004 Engine crankshaft w/E-clip
BS801-005 Engine mount L/F
BS801-006 Engine flywheel w/pin
BS801-007 Metal pipe
BS801-008 Front/rear body post
BS801-009 Alum. exhaust mount set
BS801-010 Air filter w/insert
BS801-011 ISO 4*10 flat cross screw/washer
BS801-012 Gearbox unit
BS801-013 Spur gear/spring/nylon-lock nut
BS801-014 Spurgear 43T
BS801-015 Exhaust manifold
BS801-016 Fuel tank unit
BS801-017 Silk-screened body
BS801-019 Air filter w/insert
BS905-009 Rear anti-roll bar set
BS910-066 Transverse drive shaft front/rear/left/right 1pcs
BS910-066 Transverse drive shaft
RCR-2CNR Radio unit
28479 Receiver
B7014 Servo (3Kg)
B7018 Servo (6Kg)
MPO-02 C hub/C hub pin Aluminum
MPO-03 Knuckle arm set Aluminum
MPO-04 Rear hub set Aluminum
MPO-05 Shock stay mount Aluminum
MPO-06 Front suspension mount Aluminum
MPO-07 Rear suspension mount Aluminum
MPO-08 Steel brake disk
MPO-09 Special brake pads
MPO-10 Brake lever
MPO-11 Steering link Aluminum
MPO-12 Engine mount Aluminum
MPO-13 Slipper system (hard anodized)

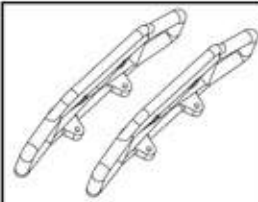
EXPLODED VIEW



PARTS IDENTIFICATION



BS904-001 Mounted knobby tires/rim (white) 2pcs
BS904-002 Mounted knobby tires/rim (chrome) 2 pcs



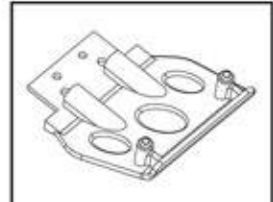
BS904-003 Bumper 2pcs



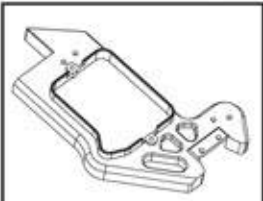
BS904-004 Bumper brace 2pcs



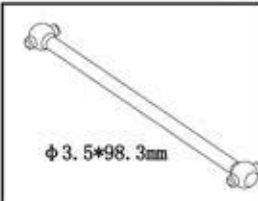
BS904-005 Bumper chassis Front 1pcs



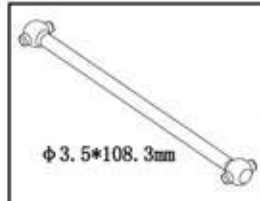
BS904-006 Bumper chassis Rear 1pcs



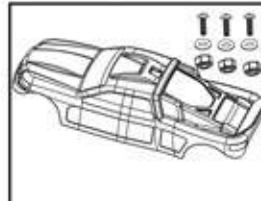
BS904-007 Upper plate Rear 1pcs



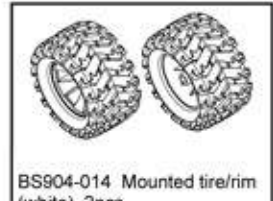
BS904-009 Dogbone Front 1pcs
 $\phi 3.5 \times 98.3\text{mm}$



BS904-010 Dogbone Rear 1pcs
 $\phi 3.5 \times 108.3\text{mm}$



BS904-013 Silk-screened body 1pcs



BS904-014 Mounted tire/rim (white) 2pcs
BS904-015 Mounted tire/rim (chrome) 2pcs



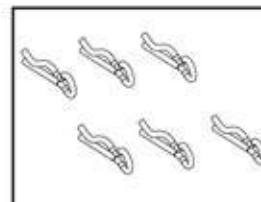
BS905-009 Rear anti-roll bar set



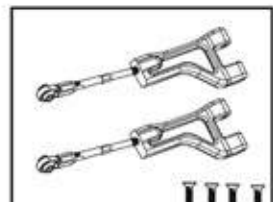
BS903-003 Shock assembly (plastic) 2pcs



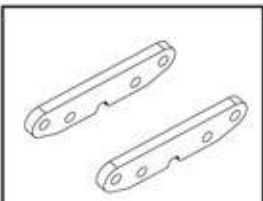
BS903-005 Shock tower Front/Rear 1pcs



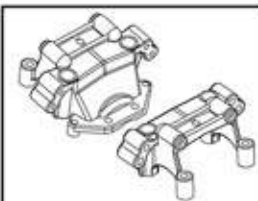
BS903-007 Body pin 6pcs



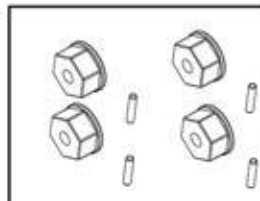
BS809-003 Upper susp. Arm set



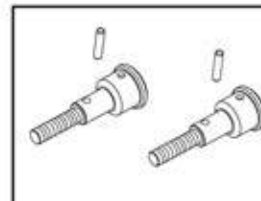
BS903-010 Suspension arm mount block 2pcs



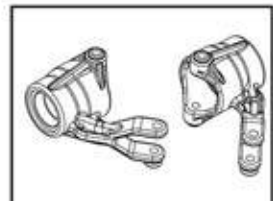
BS903-011 Upper susp. arm mount Front/Rear



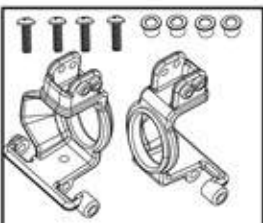
BS808-002 Rim hub w/pin 2*10 4pcs



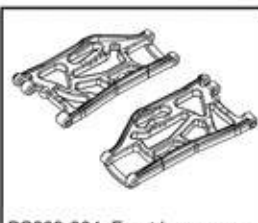
BS808-001 Axle w/pin 2pcs



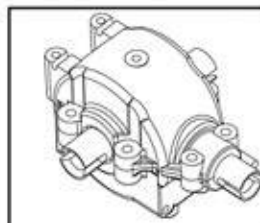
BS903-015 Steering arm 2pcs



BS903-017 C-carrier w/screw



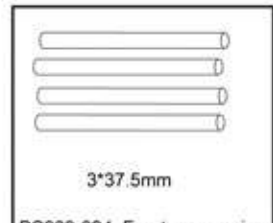
BS809-004 Front lower susp. arm Left/Right



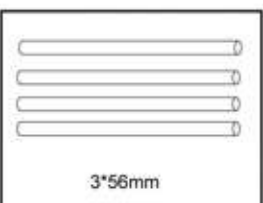
BS903-020 Diff. gearbox unit



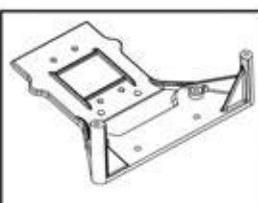
BS903-023 O-washer 4pcs



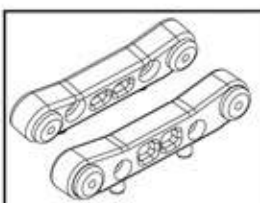
BS903-024 Front suspension arm pin-short 4pcs
3*37.5mm



BS903-025N Susp. arm pin long 4pcs
3*56mm



BS903-026 Front chassis



BS903-028 Lower susp. mount block front/rear



BS903-029 Anti-roll bar mount set

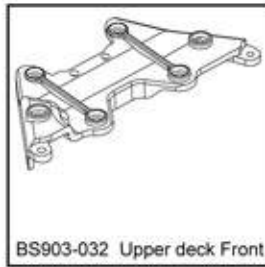


BS803-006 Servo saver link 2pcs

PARTS IDENTIFICATION



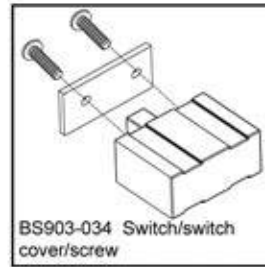
BS903-031 Servo saver unit



BS903-032 Upper deck Front



BS903-033 Battery case
1pcs



BS903-034 Switch/switch
cover/screw



BS903-035 Receiver/battery
case cover



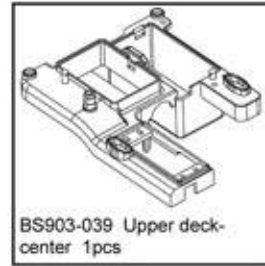
BS903-036 Handle



BS903-037 Steering servo
horn and linkage



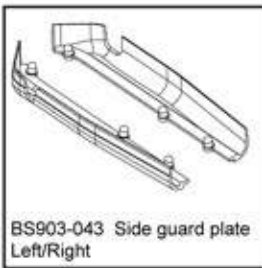
BS903-038 Steering servo
mount - A/B



BS903-039 Upper deck-
center 1pcs



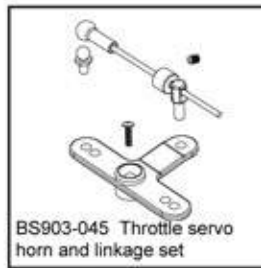
BS903-040 Upper deck
mount 1pcs



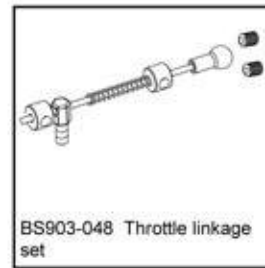
BS903-043 Side guard plate
Left/Right



BS903-044 Throttle servo
mount A/B



BS903-045 Throttle servo
horn and linkage set



BS903-048 Throttle linkage
set



BS903-052 Clutch shoe
w/spring



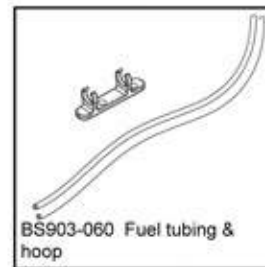
BS801-016 Fuel Tank unit



BS903-058 Rear hub
2pcs



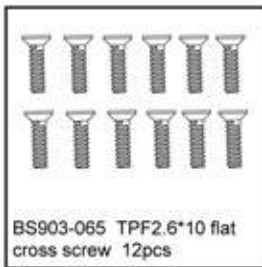
BS809-005 Rear lower susp.
arm Left/Right



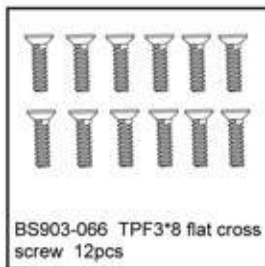
BS903-060 Fuel tubing &
hoop



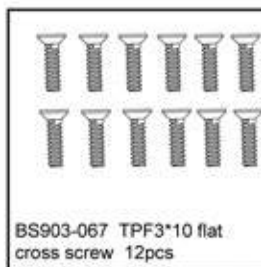
3*34.5mm
BS903-061 Rear suspension
arm pin-short 4pcs



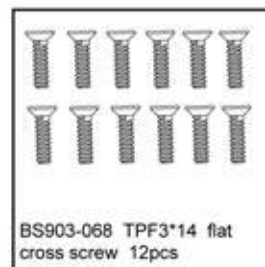
BS903-065 TPF2.6*10 flat
cross screw 12pcs



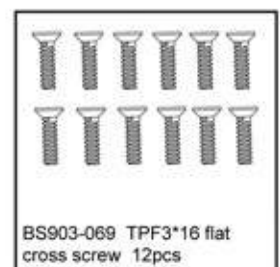
BS903-066 TPF3*8 flat cross
screw 12pcs



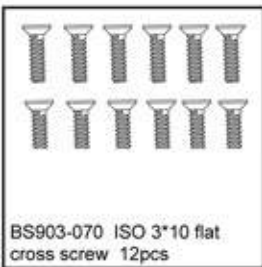
BS903-067 TPF3*10 flat
cross screw 12pcs



BS903-068 TPF3*14 flat
cross screw 12pcs



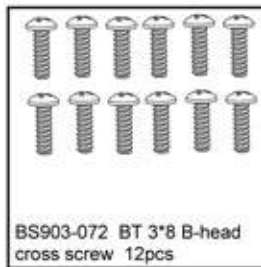
BS903-069 TPF3*16 flat
cross screw 12pcs



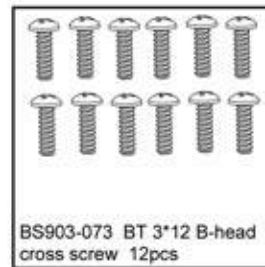
BS903-070 ISO 3*10 flat
cross screw 12pcs



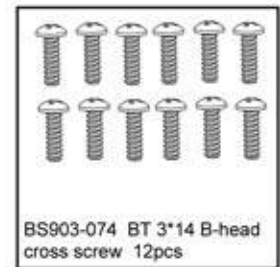
BS903-071 BT 2.6*6 B-head
cross screw 12pcs



BS903-072 BT 3*8 B-head
cross screw 12pcs



BS903-073 BT 3*12 B-head
cross screw 12pcs



BS903-074 BT 3*14 B-head
cross screw 12pcs

PARTS IDENTIFICATION



BS903-075 BT 3*16 B-head cross screw 12pcs



BS903-076 BT 3*20 B-head cross screw 12pcs



BS903-079 BM 3*10 B-head cross screw 12pcs



BS902-051 BT 3*10mm B-head cross screw 12pcs



BS903-081 HM 3*10 Cap head hex screw 6pcs

* For brake disc



BS903-082 Diff. outdrive D w/ M4*4 set screw



BS903-083 Diff. outdrive C w/ M4*4 set screw



BS905-009 Rear anti-roll bar set



BS903-086 Ball bearing (5*10*4) 2pcs



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



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



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



BS903-088 E-clip (4*0.6) 12pcs



BS903-089 Pin (2*9.5) 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



BS808-003 M5 nylon lock nut 6pcs



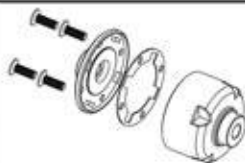
BS903-094 Double way ball end 6pcs



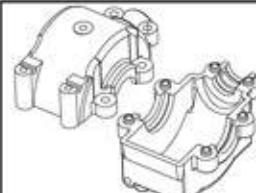
BS903-095 M4*4 grub screw 6pcs



BS903-096 M4*8 grub screw 6pcs



BS903-097 Diff. gearbox



BS903-098 Diff. gearbox bulkhead upper/lower



BS903-099 Gearbox bulkhead front/rear



BS903-101 Pinion gear 18T/19T/pin

* For two speed



BS903-102 Brake set



BS903-103 2 speed gear 40T/37T



BS903-104 Diff. unit

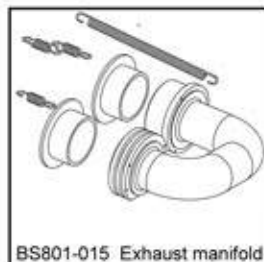
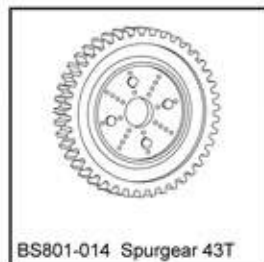
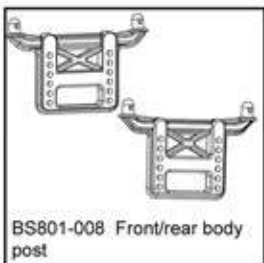
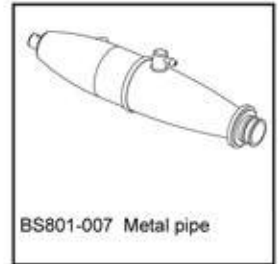
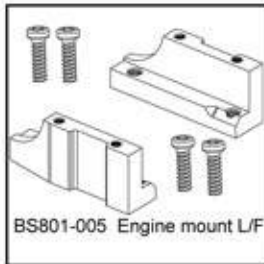
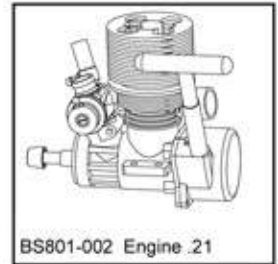
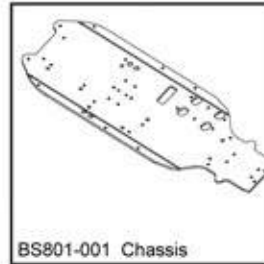
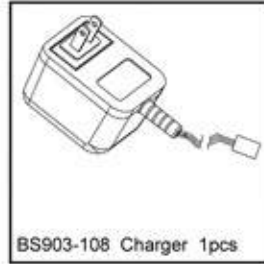
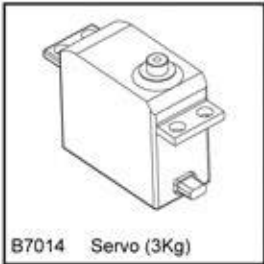
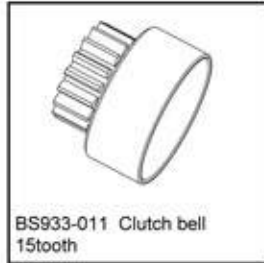


BS903-105 Drive/driven gear, Diff. gear/bevel gears



BS903-106 Screw pin (M3*9.5) 12pcs

PARTS IDENTIFICATION



PARTS IDENTIFICATION

Stainless steel AL6061



MPO-04 Rear hub set
Aluminum

Stainless steel AL6061



MPO-05 Shock stay mount
Aluminum

Stainless steel AL6061



MPO-06 Front suspension
mount Aluminum

Stainless steel AL6061



MPO-07 Rear suspension
mount Aluminum

Stainless steel




MPO-08 Steel brake disk

Stainless steel



MPO-09 Special brake pads

Stainless steel AL6061



MPO-10 Brake lever

Stainless steel AL6061



MPO-11 Steering link
Aluminum

Stainless steel AL6061



MPO-12 Engine mount
Aluminum

Stainless steel AL6061



MPO-13 Slipper system (hard
anodized)



BS801-017 Silk-screened
body



BS801-019 Air filter w/insert

Stainless steel AL6061



MPO-02 C hub/C hub pin

Stainless steel AL6061



MPO-03 Knuckle arm set

MODEL: EARTHQUAKE 3.5



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