

# REDCAT-RACING

## *1/10 ELECTRIC MONSTER TRUCK* *MODEL NO.: GROUND POUNDER*



### *Dimensions:*

*Length: 18" (457.2mm)*

*Width: 13-1/4" (336.5mm)*

*Height: 10-1/4" (260.4mm)*

*Wheelbase: 12-1/2" (317.5mm)*

*Tire Size: 5-7/8"h x 3-1/4"w (149.2mm x 82.6mm)*

*Drive Hex Size: 12mm*

*Axle width (hex to hex): 12-1/8" (308mm)*

## Instruction Manual

### **Main Features:**

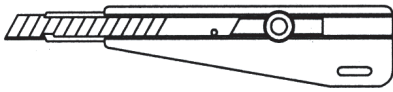
- Fully Assembled RTR kit with 4 wheel steering
- Anodized 6061 aluminum "tube" style chassis and suspension links
- Anodized aluminum threaded oil-filled shock bodies
- Pre-trimmed and finished monster truck body
- Shaft-driven, solid axle 4WD system
- 3ch 2.4G radio/receiver with independent front & rear steering functions included
- Powerful 540 brushed motor/ESC combo included
- Hi-torque front and rear steering servos included
- 7.2V battery pack and trickle charger included

### **⚠ SAFETY PRECAUTIONS**

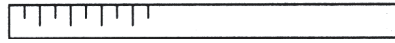
- This radio controlled racing car is not a toy!
- This high-performance R/C model is recommended for ages 14 and older.
- First-time builders should seek the advice of experienced modellers before commencing assembly.
- Take enough safety precautions prior to operating this model.  
You are responsible for this model's assembly and safe operation!

# Required equipment for operation

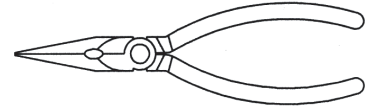
## 1. Tools required for building and maintenance:



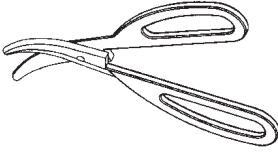
● Hobby knife



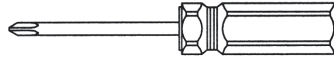
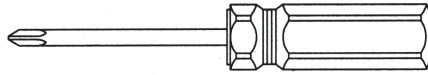
● Precision ruler



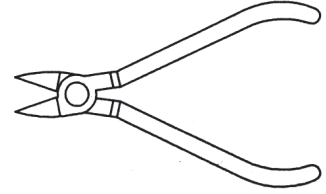
● Needle nose pliers



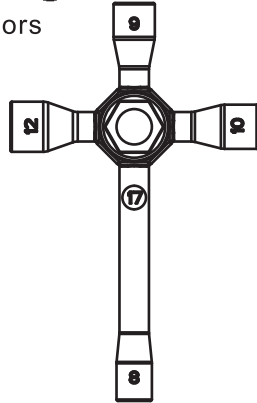
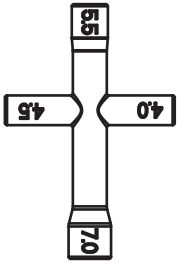
● Lexan scissors



● Flat and Philips screwdriver



● Wire cutters

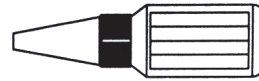


● Cross wrench

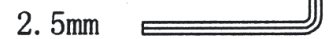
● Cross wrench



● CA glue&rubber cement



● Thread locking compound

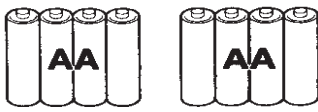


● Hex wrench

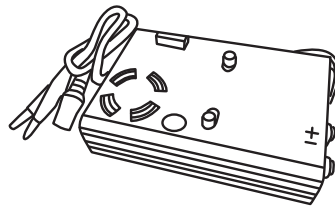
## WARNING!

Do not use a power screw driver to install screws into nylon or plastic materials. The fast locking may heat up the screws being installed that may break the molded parts or strip the threads during installation.

## 2. Additional items needed for operation:



8pcs AA alkaline batteries for transmitter



**B7004-D**  
Quick charger

# 2.4GHz RADIO SYSTEM

→ **OPTIONAL**

## 2.4GHz Radio Control

This Groundpounder is now provided with 2.4GHz radio system instead of normal FM radio system.

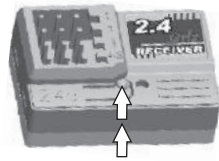
The new 2.4GHz radio control has the same functions as the normal FM radio control.

(Refer to the instructions in the manual which are for FM radio system. All operations are unchanged.)

Tip: The new 2.4GHz radio control only demands 4pcs of batteries. (Batteries are not supplied in the package.)



## 2.4GHz Receiver



Channel 1  
Channel 2  
Channel 3

**Tip:**

Channel 1: connected to front servo  
Channel 2: connected to speed control (ESC)  
Channel 3: connected to rear servo

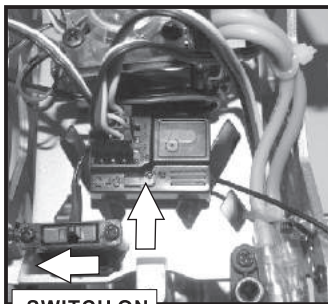
BIND KEY ( WITH FAIL SAVE FUNCTION)

## To bind the 2.4GHz receiver with your 2.4GHz radio

Before using your 2.4G radio system, please do the following which is to bind the 2.4GHz receiver with your 2.4GHz radio.

*Note: Make sure the radio system is securely connected before performing. (Motors, ESC and receiver, battery are all connected.)*

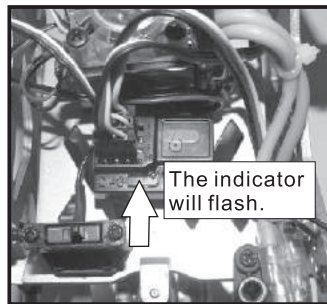
### STEP 1



SWITCH ON

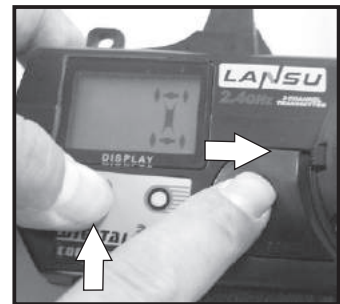
Hold the BIND KEY on the receiver switching on the power as shown.

### STEP 2



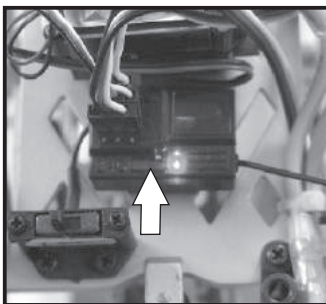
Do not release the BIND KEY until the indicator flashes sharply.

### STEP 3



Hold the SET KEY on the radio control switching on the radio control.

### STEP 4



Press the BIND KEY again (shortly press) to activate FAIL SAFE function.

### STEP 5

Radio control and receiver are ready for running your car.

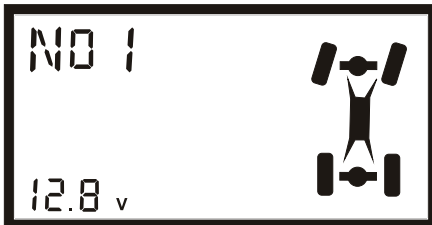
## Full function steering modes

This 2.4GHz radio contains various steering modes.



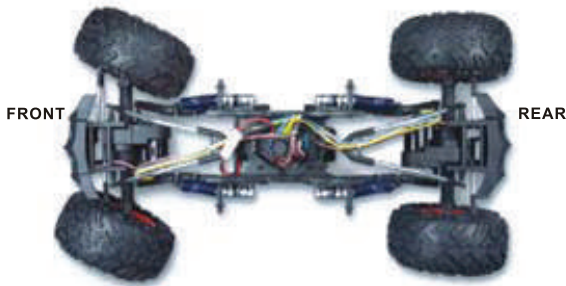
Press this switch to exchange steering modes.

### LCD Screen on FM radio controller



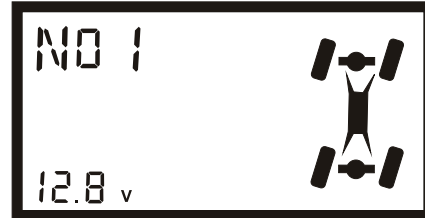
#### MODE 1

Your vehicle will work like so:



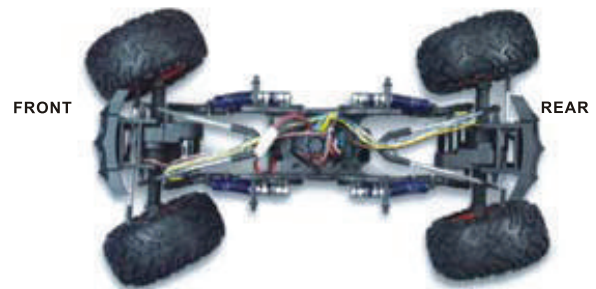
This illustration is your vehicle in the situation by performing the first mode on the radio control. Front steering is to turn to the left or right but rear steering remains aligned.

### LCD Screen on FM radio controller



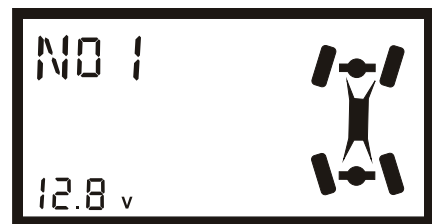
#### MODE 2

Your vehicle will work like so:



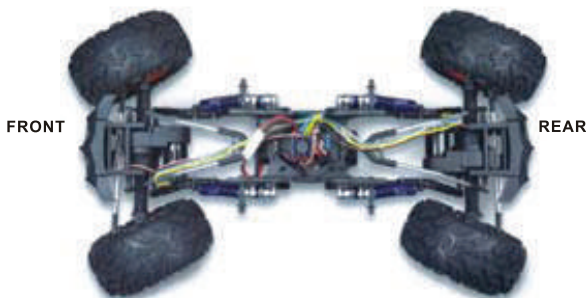
This illustration is your vehicle in the situation by performing the second mode on the radio control. Front steering is to turn to the left and rear steering is to do likewise.

### LCD Screen on FM radio controller



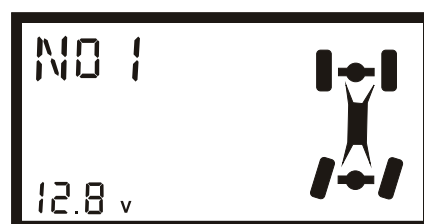
#### MODE 3

Your vehicle will work like so:



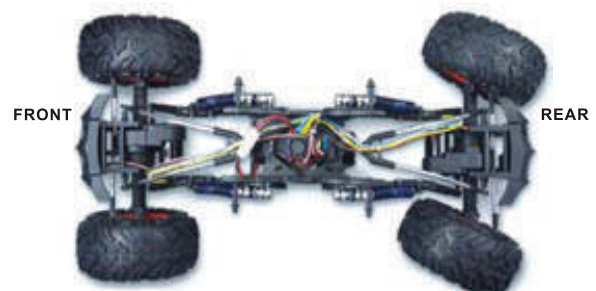
This illustration is your vehicle in the situation by performing the third mode on the radio control. Front steering is to turn to the left but rear steering is to turn right.

### LCD Screen on FM radio controller



#### MODE 4

Your vehicle will work like so:



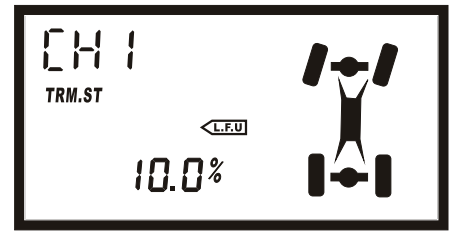
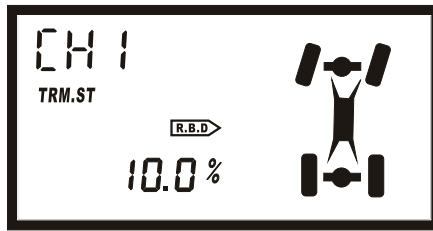
This illustration is your vehicle in the situation by performing the fourth mode on the radio control. Rear steering is to turn to the left or right but front steering remains aligned.



## Steering Trim / Steering Reverse Function



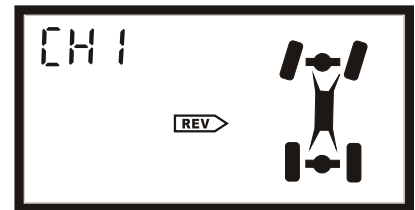
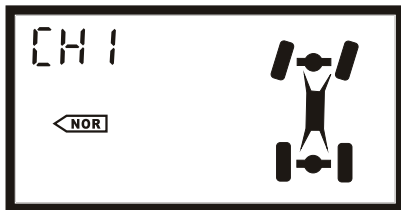
LCD Screen on FM radio controller



TRM.ST (Steering Trim) range is around 0-10.0% for both left and right steering on front wheels. Tune this switch to select your desired steering trim volume.

### To switch to Steering Reverse program:

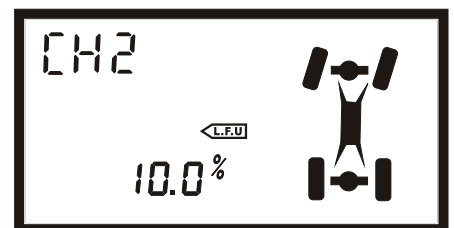
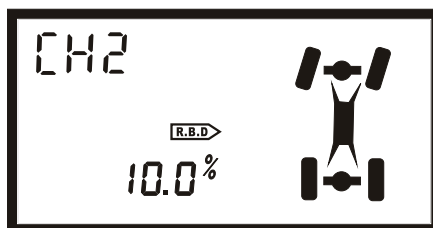
Press **SEL** ( Select Button) on your radio once, this LCD display appears Channel 1(NOR.)  
Tune the SWITCH ( Steering Trim /Reverse Switch) to change NOR into REV as shown below:.



## Throttle Trim / Throttle Reverse Switch



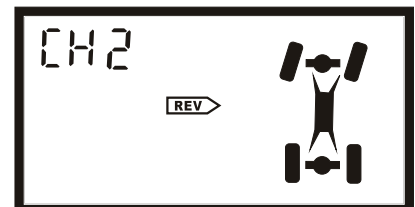
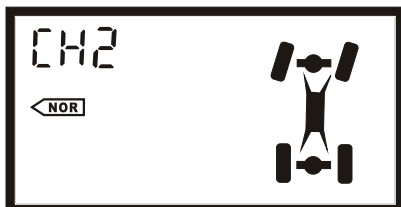
LCD Screen on FM radio controller



TRM. TH (Throttle Trim) range is around 0-10.0%. Tune this switch to select your desired throttle trim volume.

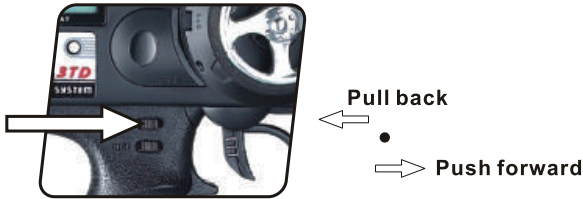
### To switch to Throttle Reverse program:

Press **SEL** ( Select Button) on your radio once, this LCD display appears Channel 2(NOR.)  
Tune the SWITCH ( Steering Trim /Reverse Switch) to change NOR into REV as shown below:.

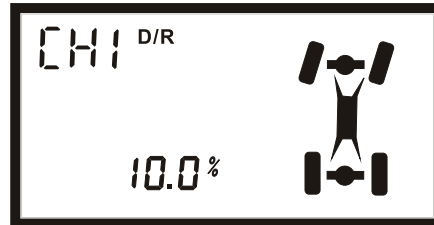


## Steering Dual Rate Control Dial(D/R)

This dial adjusts the overall travel of the steering servo , push the dial forward for maximum steering. Pull the dial back to reduce steering travel. D/R adjustable range is around 5-10%.



### LCD Screen on FM radio controller

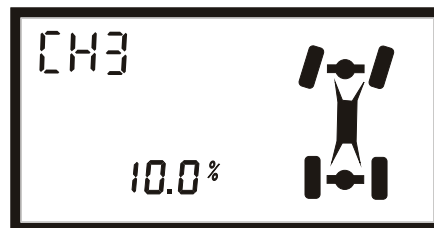


## Trim Switch (For rear wheels)

This dial is to centre the rear wheels. The range is around 0-10% on the left or right rear wheel.



### LCD Screen on FM radio controller



## Steering Control Wheel



It controls the steering of your vehicle. Turn the wheel to the right and your vehicle turns right. Turn the wheel to the left and your vehicle turns left.

## Throttle/Brake Trigger



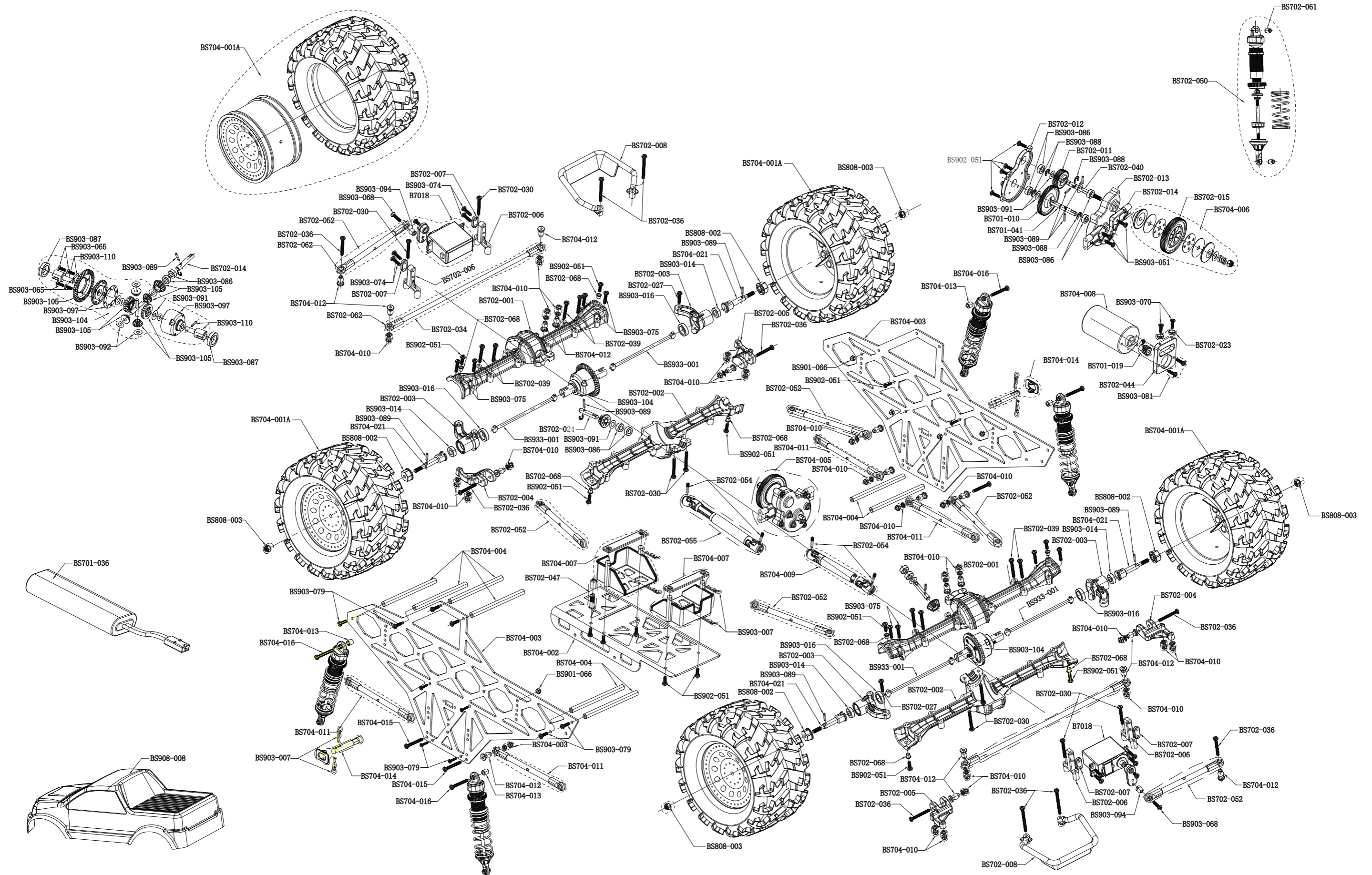
It controls the speed and braking ability of your vehicle. Pull the trigger to speed up, release the trigger to decelerate, and push the trigger to brake. Pushing the trigger a second time activates the reverse function.

## SEL function button

This FM radio controller contains a variety of select functions. Once you press SEL button, different functions will come in turn with LCD indicators on.



# GROUND POUNDER EXPLoded VIEW





# Ground Pounder PARTS LIST

Item No.	Description
BS704-001A	Tire unit(chromed wheel) 2 pcs
BS704-002	Chassis 1pcs
BS704-003	Side guard plate 2pcs
BS704-004	Main frame shaft (φ6*85) 2pcs
BS704-005	Centre Gearbox Unit 1pcs
BS704-006	Spring/gear washer/gear mount washer
BS704-007	Battery base & cover
BS704-008	540 7520Motor 1pcs
BS704-009	Centre drive shaft-Rr 2pcs
BS704-010	Washer/M3 self-lock nut 4 pcs
BS704-011	Lower linking rod 2pcs
BS704-012	Ball Mount 8pcs
BS704-013	Collar 4pcs
BS704-014	Body bracket/Body mount 4pcs
BS704-015	B-Head Cross Screw(BM3*20) 12pcs
BS704-016	B-Head Cross Screw(BM3*22) 12pcs
BS702-001	Diff Gearbox Bulkhead-lower 2 pcs
BS702-002	Diff. Gearbox Bulkhead-Lower 2pcs
BS702-003	Steering Arm 2pcs
BS702-004	Shock mount -left 2pcs
BS702-005	Shock mount -right 2pcs
BS702-006	Servo mount 2pcs
BS702-007	Servo washer 2pcs
BS702-008	Fr. Bumper 1pcs
BS702-010	Gear-69T 1pcs
BS702-011	Gear-41T 1pcs
BS702-012	Gearbox Bulkhead-Fr 1pcs
BS702-013	Gearbox Bulkhead-Rr 1pcs
BS702-014	Main gear box plate 2pcs
BS702-015	Gear-81T 1pcs
BS702-023	Motor washer 2pcs
BS702-024	Universal joint A 2pcs
BS702-027	B-Head Cross Screw(BM3*25) 12pcs
BS704-021	Wheel cup join 2pcs
BS702-030	B-Head Cross Screw (BM3*27) 12pcs
BS702-031	B-Head Cross Screw (BM3*15) 12pcs

Item No.	Description
BS702-034	Steering Linkage Set 1pcs
BS702-036	B-Head Cross Screw (BM3*35) 12pcs
BS702-039	B-Head Cross Screw (BM3*30) 12pcs
BS702-040	Main shaft-A 1pcs
BS702-041	Main shaft-B 1pcs
BS702-044	Motor mount 1pcs
BS702-047	Antenna mount 1pcs
BS702-050	Shock Absorber Unit 2pcs
BS702-052	Rod B 2pcs
BS702-054	Shaft drive screw 12pcs
BS702-055	Centre Drive Shaft 2pcs
BS702-057	B-Head Cross Screw (BM3*6) 12pcs
BS702-061	Shock Ball 6pcs
BS702-062	Plastic Ball Cup 12pcs
BS702-068	Screw Collar 8 pcs
BS701-019	Motor gear 23T/M3 screw
BS701-035	Charger for Ni-Mh battery
BS701-036	7.2V 2100mAh Ni-Mh battery
BS933-001	Centre drive shaft-Ft 1pcs
BS908-008	Body 1pcs
BS903-007	Body pin φ1.5 6pcs
BS808-002	Rim Hub 4pcs
BS903-014	Ball Bearing(φ6*φ12*4) 2pcs
BS903-016	Ball Bearing(φ10*φ15*4) 2pcs
BS808-003	Washer for rim 4pcs
BS903-034	Switch/switch cover/screw
BS903-065	Flat Cross Screw(TPF2.6*10) 12pcs
BS903-068	Flat Cross Screw(TPF3*14) 12pcs
BS903-070	Flat Cross Screw(ISO3*10)1 2pcs
BS903-073	B-Head Cross Screw(BT3*12) 12pcs
BS903-075	B-Head Cross Screw(BT3*16) 12pcs
BS903-079	B-Head Cross Screw(BM3*10) 12pcs
BS903-081	Cap Head Hexagon Screw(HM3*10) 12pcs
BS903-086	Ball Bearing(φ5*φ10*4) 2pcs
BS903-087	Ball Bearing(φ12*φ18*4) 2pcs
BS903-088	E-Clip(φ4*0.6) 12pcs



# Ground Pounder PARTS LIST

## Item No. Description

BS903-089 Pin( $\phi 2 * 9.5$ ) 12pcs  
BS903-091 Washer A( $\phi 5.2 * \phi 10 * 0.2$ ) 12pcs  
BS903-092 Washer B( $\phi 4.2 * \phi 8 * 0.2$ )  
BS808-003 M4 Nylon Locknut 6pcs  
BS903-094 Double Way Ball end 4pcs  
BS903-095 Set Screw(M4\*4) 6pcs  
BS903-097 Diff.gearbox  
BS903-104 Diff. Unit  
BS903-105 Driving/driven gear  
Diff.gear/bevel gears  
BS901-048 E-Clip( $\phi 3 * 0.6$ ) 12pcs  
BS901-050 clip for body  $\phi 1.0$  6pcs

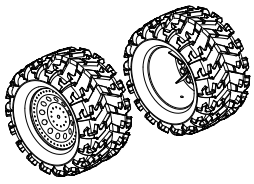
## Item No. Description

BS901-064 Set Screw(M3\*3) 6pcs  
BS901-066 M3 Nylon locknut 6pcs  
BS901-067 Antenna Pipe W/Cap 3pcs  
BS902-046 B-Head Cross Screw  
(BM2\*10) 12pcs  
BS902-051 B-Head Cross Screw  
(BT3\*10) 12pcs  
B7053 Radio Unit  
B7054 Receiver

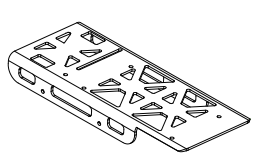
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## Optional parts/Upgrade parts

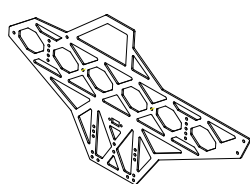
BS702-069 Rear drive shaft -long(upgrade)  
BS702-072 Rear drive shaft-short (upgrade)



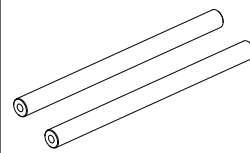
BS704-001A Tire unit 2pcs



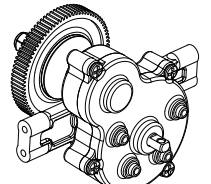
BS704-002 Chassis



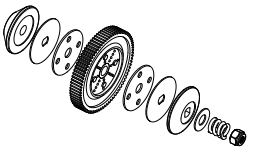
BS704-003 Side guard plate 1pcs



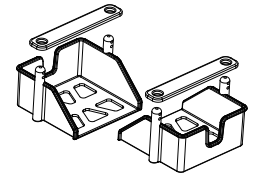
BS704-004 Main frame shaft (φ6\*85) 2pcs



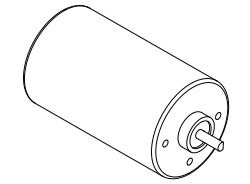
BS704-005 Centre Gearbox Unit



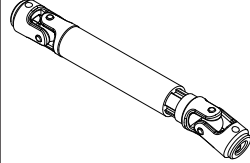
BS704-006 Spring/gear washer /gear mount washer



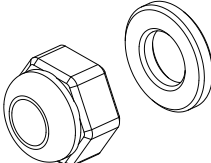
BS704-007 Battery base & cover



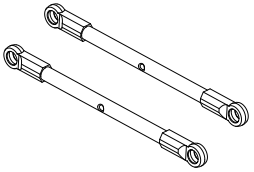
BS704-008 540 7520Motor



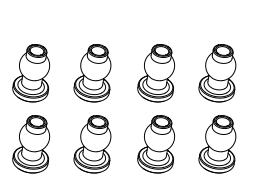
BS704-009 Centre drive shaft-Rr 2pcs



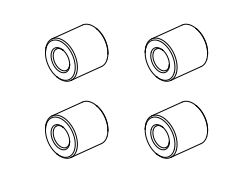
BS704-010 Washer/M3 self-lock nut 4pcs



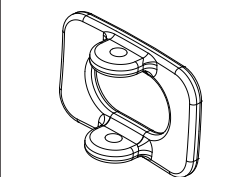
BS704-011 Lower linking rod 2pcs



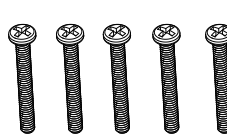
BS704-012 Ball Mount 8pcs



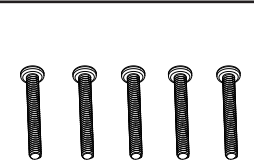
BS704-013 Collar 4pcs



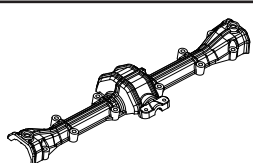
BS704-014 Body bracket /Body mount 4pcs



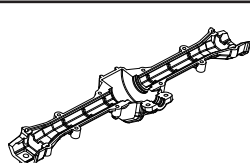
BS704-015 B-Head Cross Screw(BM3\*20) 12pcs



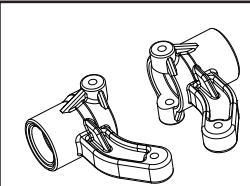
BS704-016 B-Head Cross Screw(BM3\*22) 12pcs



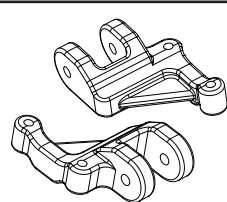
BS702-001 Diff. Gearbox Bulkhead-Upper 2pcs



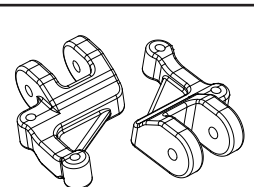
BS702-002 Diff. Gearbox Bulkhead-Lower 2pcs



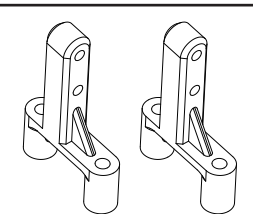
BS702-003 Steering Arm 2pcs



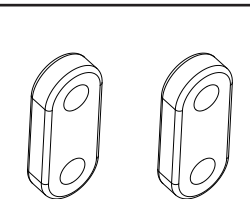
BS702-004 Shock mount -left 2pcs



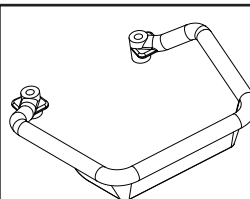
BS702-005 Shock mount -right 2pcs



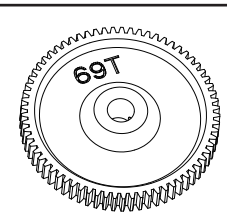
BS702-006 Servo mount 2pcs



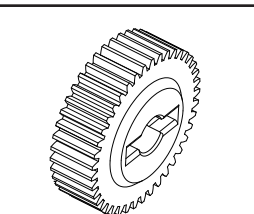
BS702-007 Servo washer 2pcs



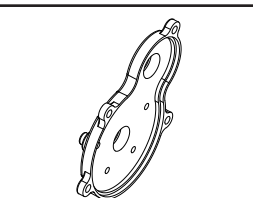
BS702-008 Fr. Bumper 1pcs



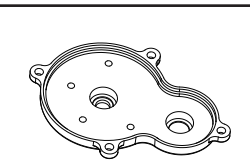
BS702-010 Gear-69T 1pcs



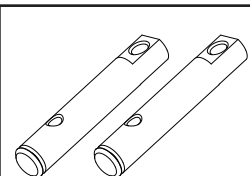
BS702-011 Gear-41T 1pcs



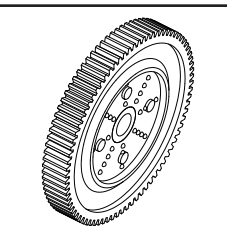
BS702-012 Gearbox Bulkhead-Fr 1pcs



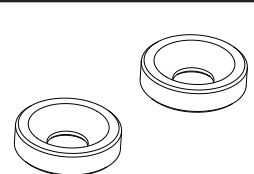
BS702-013 Gearbox Bulkhead-Rr 1pcs



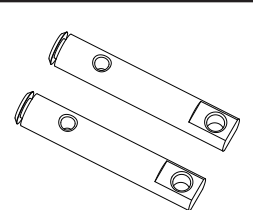
BS702-014 Main gear box plate 2pcs



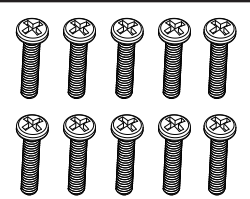
BS702-015 Gear-81T 1pcs



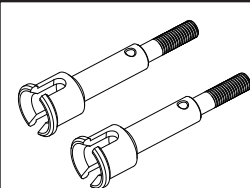
BS702-023 Motor washer 2pcs



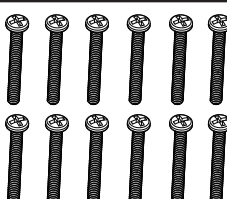
BS702-024 Universal joint A 2pcs



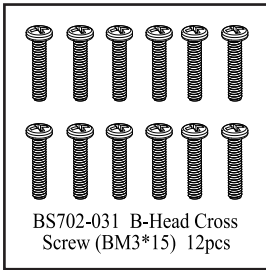
BS702-027 B-Head Cross Screw (BM3\*25) 12pc



BS704-021 Wheel cup join 2pcs



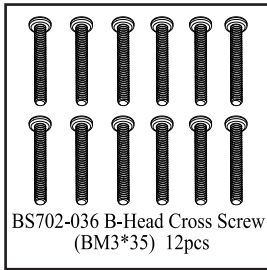
BS702-030 B-Head Cross Screw (BM3\*27) 12pcs



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



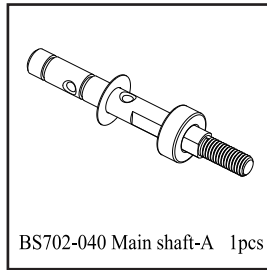
BS702-034 Steering Linkage Set 1pcs



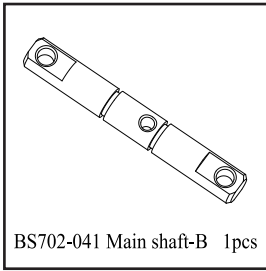
BS702-036 B-Head Cross Screw (BM3\*35) 12pcs



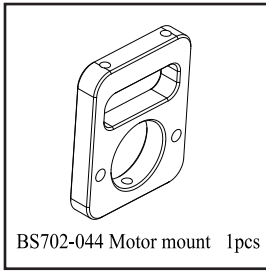
BS702-039 B-Head Cross Screw (BM3\*30) 12pcs



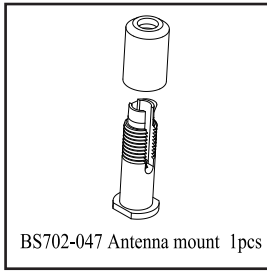
BS702-040 Main shaft-A 1pcs



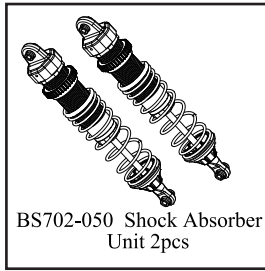
BS702-041 Main shaft-B 1pcs



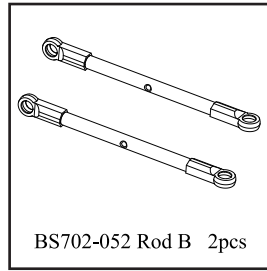
BS702-044 Motor mount 1pcs



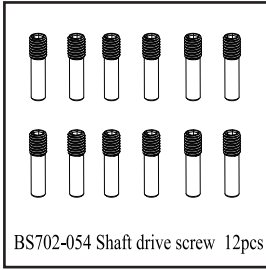
BS702-047 Antenna mount 1pcs



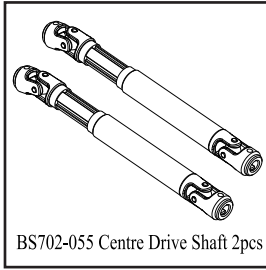
BS702-050 Shock Absorber Unit 2pcs



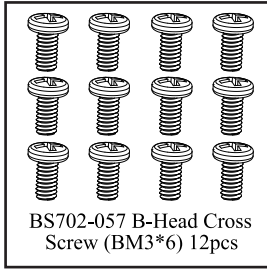
BS702-052 Rod B 2pcs



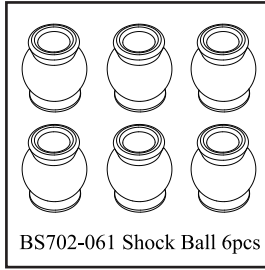
BS702-054 Shaft drive screw 12pcs



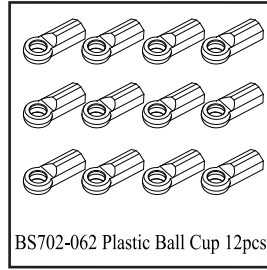
BS702-055 Centre Drive Shaft 2pcs



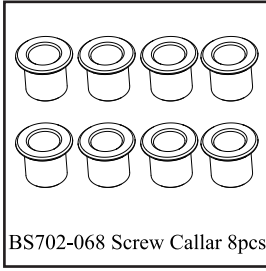
BS702-057 B-Head Cross Screw (BM3\*6) 12pcs



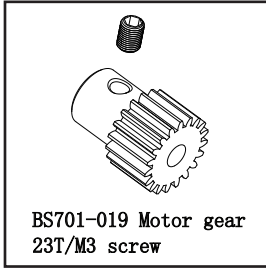
BS702-061 Shock Ball 6pcs



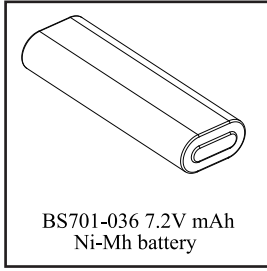
BS702-062 Plastic Ball Cup 12pcs



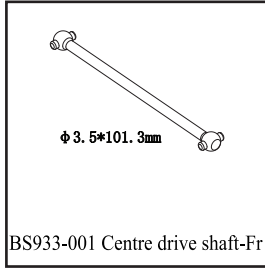
BS702-068 Screw Callar 8pcs



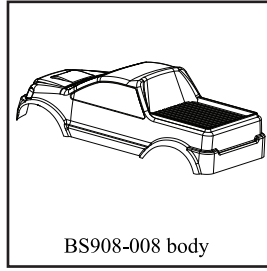
BS701-019 Motor gear 23T/M3 screw



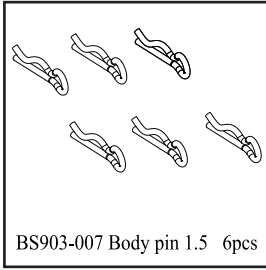
BS701-036 7.2V mAh Ni-Mh battery



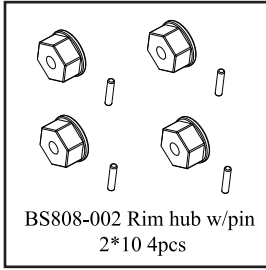
BS933-001 Centre drive shaft-Fr



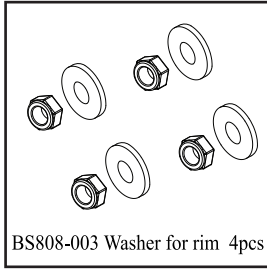
BS908-008 body



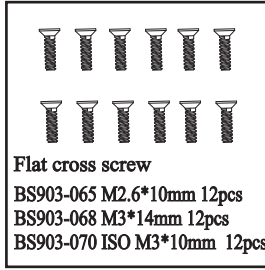
BS903-007 Body pin 1.5 6pcs



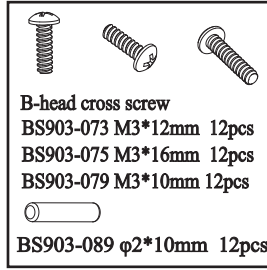
BS808-002 Rim hub w/pin 2\*10 4pcs



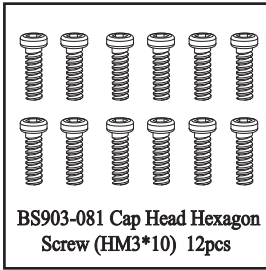
BS808-003 Washer for rim 4pcs



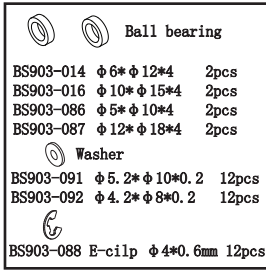
Flat cross screw  
BS903-065 M2.6\*10mm 2pcs  
BS903-068 M3\*14mm 2pcs  
BS903-070 ISO M3\*10mm 2pcs



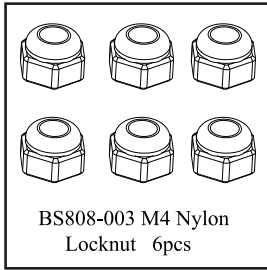
B-head cross screw  
BS903-073 M3\*12mm 2pcs  
BS903-075 M3\*16mm 2pcs  
BS903-079 M3\*10mm 2pcs  
BS903-089 phi 2\*10mm 12pcs



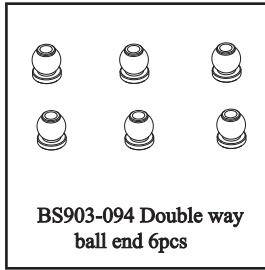
BS903-081 Cap Head Hexagon Screw (HM3\*10) 12pcs



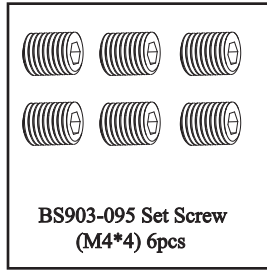
Ball bearing  
BS903-014 phi 6\*phi 12\*4 2pcs  
BS903-016 phi 10\*phi 15\*4 2pcs  
BS903-086 phi 5\*phi 10\*4 2pcs  
BS903-087 phi 12\*phi 18\*4 2pcs  
Washer  
BS903-091 phi 5.2\*phi 10\*0.2 12pcs  
BS903-092 phi 4.2\*phi 8\*0.2 12pcs  
BS903-088 E-clip phi 4\*0.6mm 12pcs



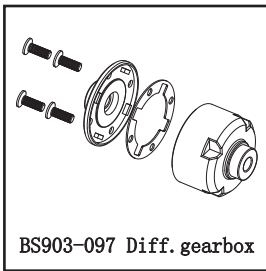
BS808-003 M4 Nylon Locknut 6pcs



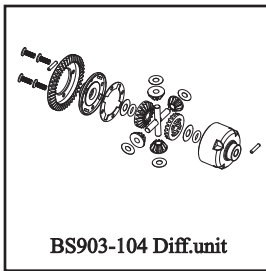
BS903-094 Double way ball end 6pcs



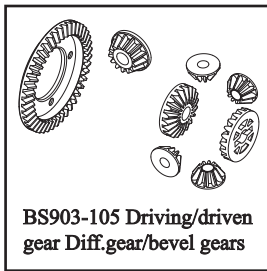
BS903-095 Set Screw (M4\*4) 6pcs



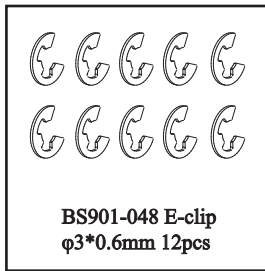
BS903-097 Diff. gearbox



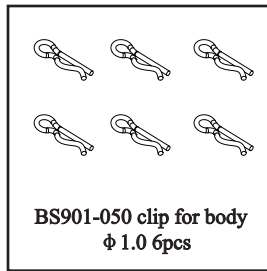
BS903-104 Diff. unit



BS903-105 Driving/driven gear Diff. gear/bevel gears



BS901-048 E-clip phi 3\*0.6mm 12pcs



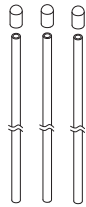
BS901-050 clip for body phi 1.0 6pcs



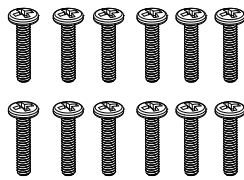
BS901-064 Set Screw  
(M3\*3) 6pcs



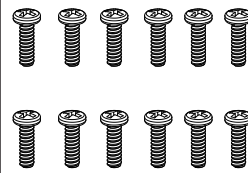
Nylon lock nut  
BS901-066 M3mm 5pcs



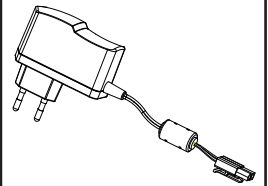
BS901-067 Antenna  
pipe w/cap 3pcs



BS902-046 B-Head Cross Screw  
(BM2\*10) 12pcs



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



BS701-035 Charger for  
Ni-Mh battery

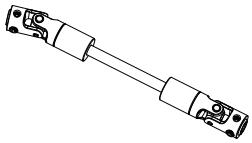


BS7053 Radio Unit

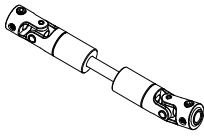


BS7054 Receiver

## Optional parts/Upgrade parts



BS702-069 Rear drive  
shaft -long(upgrade)



BS702-072 Rear drive  
shaft-short (upgrade)

