



ROCK CRAWLER



USER MANUAL

OFF-ROAD CRAWLER

NO.136161JL



Notes:

- Read and understand the instructions carefully before operating or assembling your racing model.
- Specifications are subject to change without prior notice, and actual received model may vary from the images and/or descriptions in this manual.

Remote control models are specialized and high-value products. If you identify any quality defects upon receipt, please do not use the product and contact the seller immediately to arrange a replacement or return. Please note that we cannot provide any after-sales guarantee for damages which are caused by improper use.

The product conforms to technical requirements of export safety regulations.



Please read and follow all the instructions in the manual before use.

MADE IN CHINA

Factory Address: Huang Jiang Town, Dong Guan City, Guang Dong Province, China
Production Date: refer to packing instruction

14+
YEARS

Introduction

We would like to welcome you to the world of remote control cars. What are RC cars? The simple answer is that they are radio controlled cars that respond precisely to your command. The more complete answer is that they can be a great addition to your lifestyle. RC car building and racing teach valuable mechanical and electrical skills, promote teamwork and encourage racers to test their skills with other racers from around the world. Whether you are just having fun racing your car in your backyard or racing at the world competition contest, radio controlled car racing is a great hobby.

We have been making RC products aimed at making our hobby fun and exciting with an affordable price. We are confident that your experience with our products will be positive. Of all the radio controlled models out there, no question about it, RC cars are the hardest to operate. This user manual covers a wide range of topics from nitro powered remote control cars to electrical powered remote control cars. We highly recommend that you read this user manual thoroughly and carefully before assembling and operating. Please follow all precautions and recommendations located within the manual. Be sure to retain the manual for future reference, routine maintenance, and tuning.

This product is not a toy. It is not recommended for children under 14 years old and any minor should be accompanied by an adult when operating. This product is a precision machine that requires proper assembly and setup to avoid accidents. Failure to take caution when operating this product may result in serious injury or property damage. It is the owner's responsibility to operate this product in a safe manner. Manufacturer and its distributors are not responsible in any way for any and all bodily injury(s) and/or property damage that may occur from the use of or caused by in any way of this product.

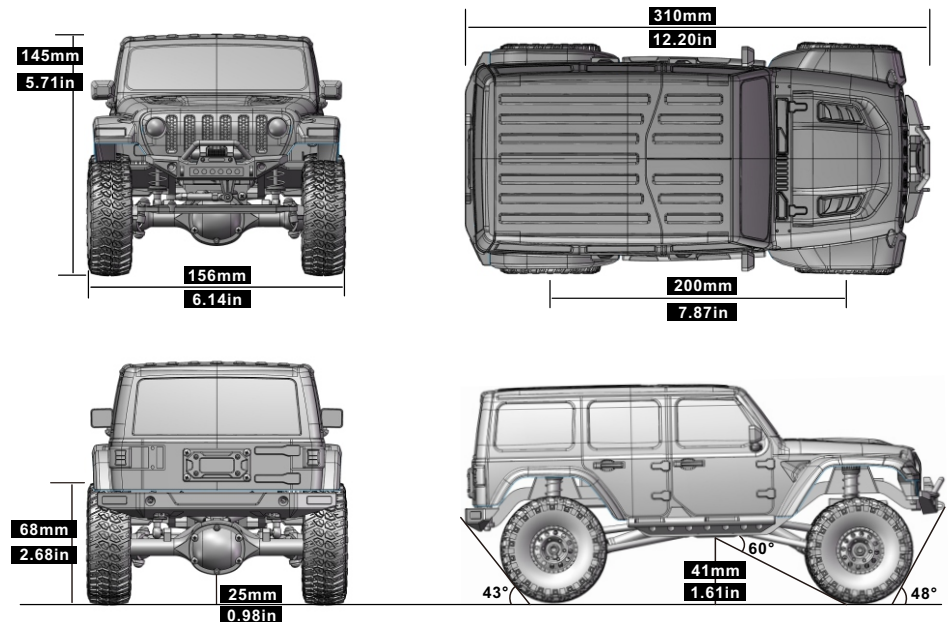
Warnings

- The product is not intended for those under 14 years of age without proper adult supervision. The product is not a toy. It is a precision machine requiring proper assembly and setup to avoid accidents and it is the responsibility of the owner to operate this product in a safe manner as it can cause serious personal injury and damage to property due to carelessness or misuse.
- Do not attempt to disassemble or modify any of the product components without the assistance of an experienced RC user.
- Only use the correct type of battery to operate. Using any wrong type of battery will damage the product and possibly make it dangerous to operate.
- The motor(s) may get hot during use. Always allow the motor 10 - 15 minutes to cool down between each operation. This will prolong the life of your product.
- Choose an appropriate operating site consisting of flat, smooth ground, and clear open field. Do not operate near buildings, high voltage cable lines, or trees to ensure safety operation. Operate in safe area only, away from other people. RC models are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, user error, and radio interference. Users are responsible for their actions and damage or injury occurring during the operation.
- Do not operate in inclement weather, such as rain, wind, snow or darkness.
- The product, composed of precision electrical components, must be kept away from moisture and other contaminants. Do not allow them to get wet. Electrical damage may occur that could affect safe operation.
- You should complete a successful pre-run check of your radio equipment and the model prior to each run.
- Use replacement parts from the original manufacturer to ensure safe product operation.
- Operate this product within your ability. Do not operate under tired condition.
- After each use, always allow the battery to cool down before recharging. When charging the battery pack, do not overcharge! If batteries get hot during charging, discontinue charging immediately and disconnect the battery from the charger. Never leave battery unattended while charging. If you are unsure of how to charge this battery, please seek the advice of experienced RC users. Never let children charge the battery without adult supervision.
- Always turn on the transmitter before connecting the battery on the model. When turning off the model, always disconnect the battery first, and then turn off the transmitter. If the order is reversed, the model may become uncontrollable and cause serious damage.
- If you are in doubt about your ability to operate the model, we strongly recommend that you seek assistance from experienced RC users or join your local modeling club to gain the required knowledge and skill. As the manufacturer and distributor, we assume no liability for the use of this product.
- Before turning on your model and transmitter, please check to make sure no one else is operating under the same frequency. Frequency interference can cause your model, or other's models to crash. The guidance provided by experienced RC users will be valuable for the assembly, tuning, trimming, and actual first flight.
- Never allow batteries to run low or you might lose control of the model.
- Plastic is very susceptible to damage or deformation due to extreme heat and cold climate. Do not store the model near any source of heat such as oven or heater. Store the model indoors, in a climate-controlled, room temperature environment.
- Never shorten the receiver antenna; or this might affect the transmitting range of the radio system.
- This product is a RC hobby model, do not use for other purpose.

Lithium Polymer (LiPo) Battery Warnings

- Never charge a lithium polymer battery with a charger designed for NiCd, NiMH, or any other type of battery chemistry. Use ONLY charger designed for LiPo battery.
- Do not leave LiPo battery unattended during charging.
- Do not overcharge the battery.
- Always place the battery on a heat resistant surface alone when charging.
- Always put the LiPo battery inside a charging protection container while charging.
- Do not allow LiPo cells to overheat at any time. Cells which reach greater than 140 Fahrenheit (60°C) will usually become damaged and will catch fire.
- Do not charge LiPo cells on or near combustible materials including paper, plastic, carpets, vinyl, leather, and wood. Inside an R/C model or full size automobile.
- Do not discharge LiPo; doing so will damage the battery.
- Do not expose LiPo cell to water or moisture at any time.
- Do not store battery near open flame or heater.
- Do not assemble LiPo cells or pre-assembled packs together with other LiPo cells or packs.
- Always store LiPo battery in a secure location away from children.
- Always remove the LiPo battery if model is involved in any kind of crash. Carefully inspect the battery and connectors for even the smallest damage. CAUTION: cells may be hot!
- Do not allow the electrolyte to get into eyes or on skin. Wash affected areas immediately if they come into contact with electrolyte. Do not alter or modify connectors or wires of a LiPo battery pack.
- Always inspect the condition of the battery before charging and operating.
- Do not short circuit the LiPo battery.
- Do not have contact with a leaky/damaged battery directly.
- Do not charge battery out of recommended temperature range (0°C -45°C).

Specifications



Item No	136161JL	Clearance	41mm (chassis) 25mm (axle)	Ramp Angle	60°
Item Name	Adventurer	Weight	710g	Approach Angle	48°
Description	Crawler	Radio/Rx	2.4G/4CH	Departure Angle	43°
Drive Mode	4WD	Brushed Power	ESC:25A	Gear Ratio	45 : 1
Length	310mm		Motor:RC370	Charger Spec	USB/7.4V 500mA
Width	156mm	Brushless Power	ESC:45A	Body Type	PVC 1.0/Soft Paint
Height	145mm		Motor:2322-3500kv	Body Color	Gray / Red
Wheel Base	200mm	Battery	2S Lipo7.4V/1100mAh	Gift Box Size	415*180*220mm
Wheel	68*26mm	Servo	Metal Gear 17G	Packing QTY	4P

Operation Checklist

1. Read and follow all the instructions in the entire manual before operation.

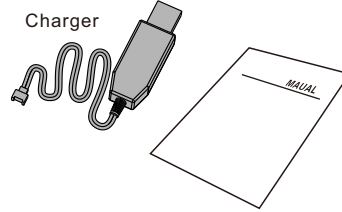
The items inside the box:



Transmitter



One car

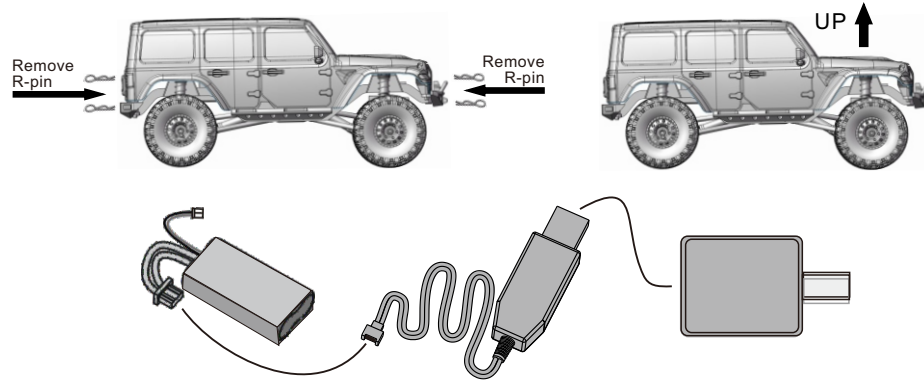


Charger
Factory Certificate/Decal Sheet

2. Charging Steps:

Open the body and take out the battery for charging.

Correct way to open the body: as shown in the diagram.



Charging the Battery

Input: USB 5V 1.5A, Output: 7.4V 500mA

1. Connect the USB charger to a power block.
2. Connect the balance connector of battery to the charger's charge port. Be sure the polarity is correct. Do not force the balance connector into the charge port.
3. The charger will detect the battery status and then start to charge. The indicator LED will turn solid red when charging.
4. When the battery is fully charged (4.2V per cell), the indicator LED will be solid green. Unplug the battery from the charge.
5. Unplug the charger from the power source.

Note: If the indicator LED blinks red, check for a proper connection between the balance leads of the battery and the charger.
Note: If the battery has been discharged too much (cell voltage less than 2.5V/Cell) the charger will not charge the battery and it is considered unstable.

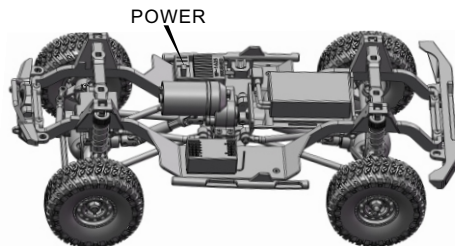
3. Car Power On/Off

As shown in the diagram on the right, press the ESC power button briefly to power on the car. Press and hold the ESC power button for 3 seconds to power off the car.

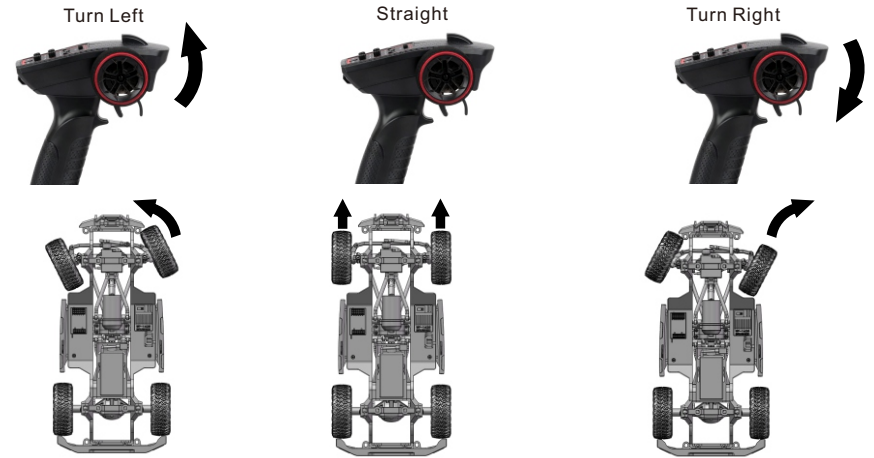
Tips: When powering on the car, please turn on the transmitter first.

When powering off the car, turn off the ESC power first, then turn off the transmitter.

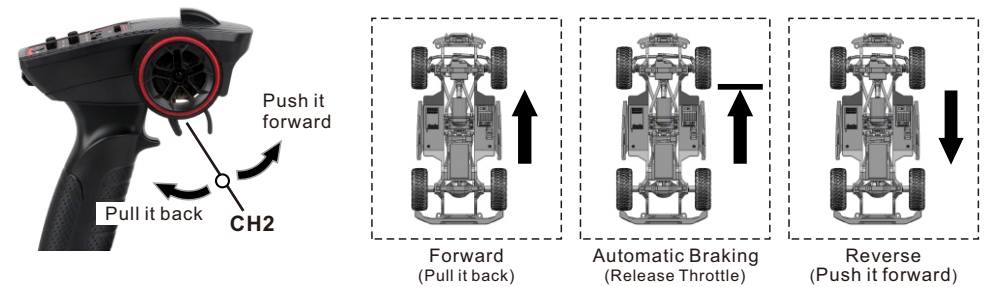
To better preserve the battery's service life, please unplug the battery connector after powering off.



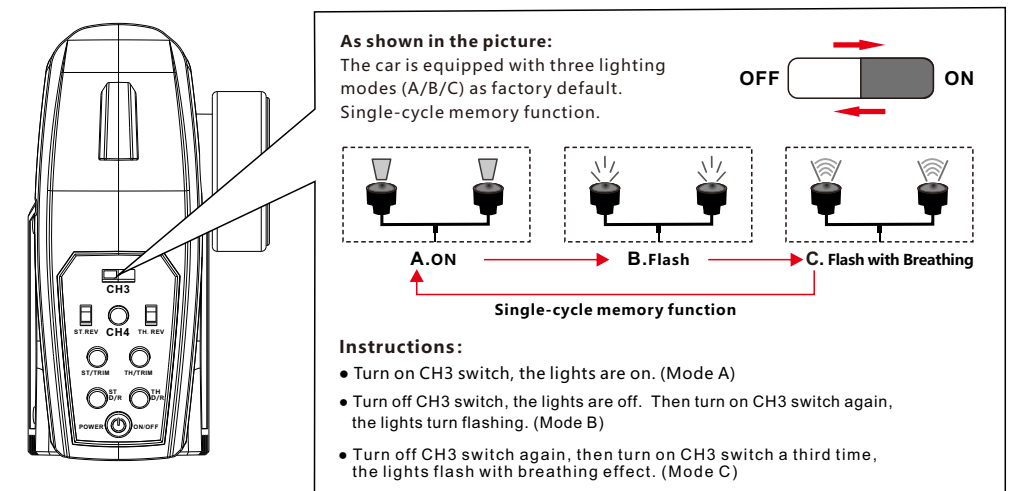
Checking the steering performance by turning the steering wheel:



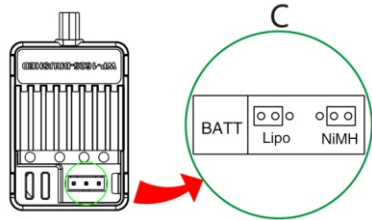
Throttle control:



Light Control Usage:



ESC(WP-1625-BRUSHED) Instructions



C:WP-1625-BRUSHED&
WP-1625-BRUSHED-CRAWLER

Model		WP-1625-BRUSHED& WP-1625-BRUSHED-CRAWLER
Cont./Burst Current		Forward: 25A/100A Backward: 25A/100A
Input		2-3S Lipo, 5-9 Cells NiMH
Motor Limit	2S Lipo or 5-6 cells NiMH	280, 370 or 380 size motor or RPM<30000@7.2V
	3S Lipo or 7-9 cells NiMH	280, 370 or 380 size motor or RPM<20000@7.2V
Resistance		Fwd: 0.003 Ohm, Bwd: 0.003 Ohm
Built-in BEC		1A/6V(Linear mode BEC)
Dimension&Weight		34mm*24mm*14mm, 23.5g

ESC(45A BRUSHLESS ESC) Instructions



FAM32-45A

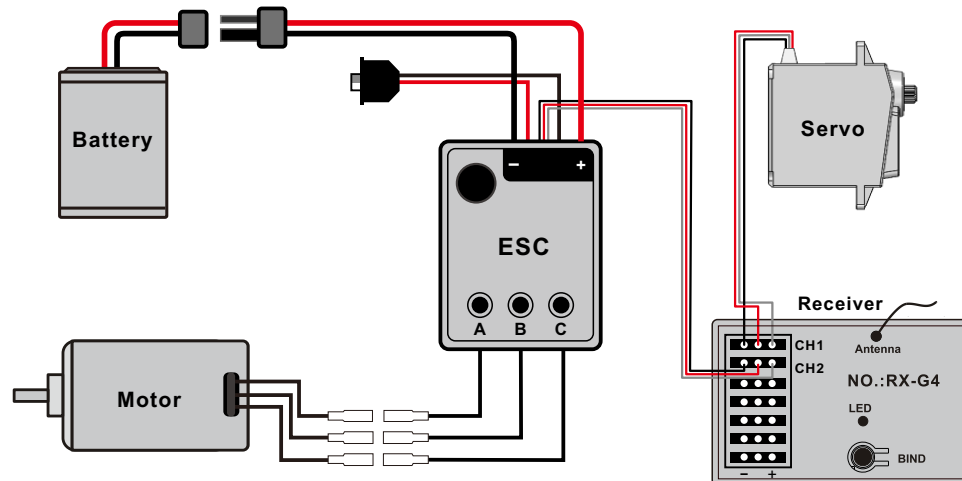
Features :

1. Simulated FOC, extremely excellent low-speed linearity and powerful low-speed torque.
2. Parameter adjusters and software can be used to adjust and adapt to various types of motors.
3. Low internal resistance Mos tube, strong impact resistance.
4. Waterproof treatment.

Specifications:

NO:	FAM32-45A		
Rated Voltage Range:	2-3S Li-PO	Motor Type:	2322/2204/2205 Outer rotor motors
Current(A):	Continuous/Peak Current:45A/260A	BEC Output:	5V/2A
Weight:	25.5g	Color:	Black

Scheme of installation



Usage:

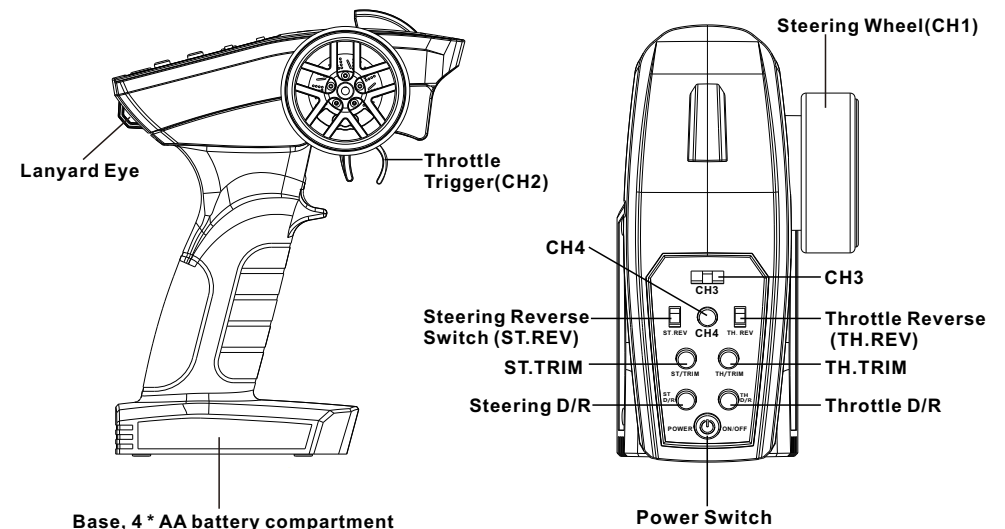
1. Connect the power supply, motor, and receiver correctly according to the instructions in the diagram.
2. Connect the motor and the three wires of the electric controller in any order. If the throttle is reversed, switch the two wires for connection.
3. Adjust the throttle center position by adjusting the throttle fine adjustment knob and making a few long beeps to the motor. This is the throttle center position.
4. When the throttle adjustment is not in the neutral position, there is no response to the throttle during operation
5. The transmitter throttle adjustment 0 value is only a reference center, sometimes it may deviate to the left or right.

Troubleshooting:

Causes:	Solutions:
No power	Check if the battery is unplugged or flat.Fix or charge the battery.
Reversed forward and backward operation	1.Check if the motor wires are reversed. 2.Check if the Throttle Reverse is properly set. Toggle between NOV and REV
The car moves when powered on	Check if the remote control front and rear fine adjustment (TH.TRIM) is in the throttle center position
The RC product slows down unexpectedly	Check the battery power. Check the battery if needed.
No throttle	1.Check if the receiver channel is plugged in correctly, usually by inserting the CH2 channel, and if the CH2 channel wire is plugged in incorrectly. 2.Check if the remote control throttle is in the middle position of the throttle to complete frequency matching.

TX-8B Radio System

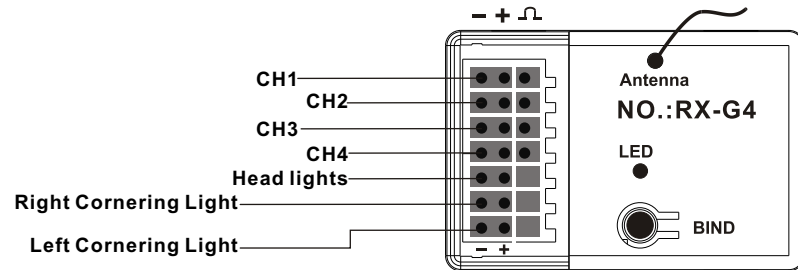
Transmitter overview:



Transmitter Parameters:

Product Model	TX-8B	Battery	6V DC 1.5AA*4
Channels	4	Working voltage	4.2V~6VA
RF	2.4GHz	Low Voltage Warning	<4.4V
RF Power	<20dBm	Size	143*90*192mm
Distance	>150m(ground)	Certification	CE, FCC

Receiver:

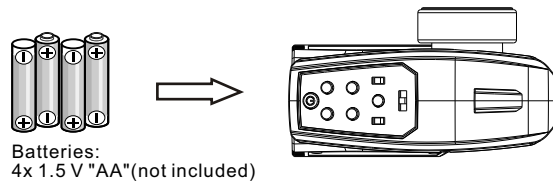


Receiver Parameters:

Product Model	RX-G4	Working voltage	4.2-10V
Name	2.4Ghz Receiver	Size	36.6*23.8*13.4mm
RF	2.4GHz	Weight	8.9g
Distance	>150m(ground)	Certificates	CE, FCC

Battery Installation:

1. Open the battery cover.
2. Load four AA size batteries.
Make sure not to invert the polarities.
3. Close battery compartment cover.



Before use /After use:

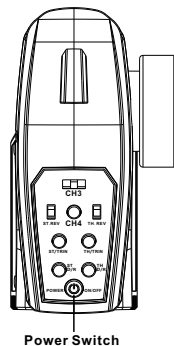
Follow the steps below to turn on the transmitter:

1. Check to make sure that that battery is fully charged and installed correctly.
2. Press and hold for 2 seconds the POWER button to turn on the power.
When active the LED will be lit.
3. Connect the receiver to power.



For safety always power on the transmitter before the receiver.

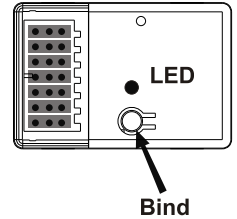
4. Always switch off the receiver before the transmitter when stopping use.
Failure to do so may lead to malfunction and even a severe accident.



Binding :

The transmitter is bound with the receiver before leaving factory. Please follow the instructions when trying to re-bind them.

- 1). Switch off the transmitter.
- 2). Switch on the receiver. Press and hold the BIND button for 3 seconds and release until the LED flashes rapidly.
- 3). Switch on the transmitter. The LED on transmitter will flash which indicates it is seeking the receiver.
- 4). The LEDs on transmitter and receiver will become on solid which indicates the transmitter has been bound with the receiver.



Vehicle Maintenance:



Note:

Always turn off the receiver and then the transmitter when not in use.
Clean the car before storage.

- 1) Inspect your car and make sure there is no obvious damage and breakage.
- 2) Check gears for wear, debris or broken/slipping teeth.
- 3) Check for loose screws in the chassis. And make sure the wheels are firmly before use.
- 4) Check for the wires for frayed or damaged wires or connectors.
- 5) Check the steering servo which will wear out over time and require replacement.
- 6) Check all batteries. Disconnect and remove the batteries when not in use. Batteries should be stored in a Clean and dry place, which should NOT be exposed to direct sunlight.
- 7) Keep the chassis clean and free of sand, dust and moisture.
- 8) Remove and clean the motor if necessary. (Never attempt to re-assemble the motor.)
- 9) Clean the car body with a soft lint-free cloth. Regular check gear mesh, clean and oil the gears if necessary.
- 10) Remove all batteries when not in use. 11) Store the vehicle in a clean and dry place out of children's reach. Storage should not expose the vehicle to any source of heat and water.

Check if either the charger or the batteries are damaged, or batteries are over-discharged.

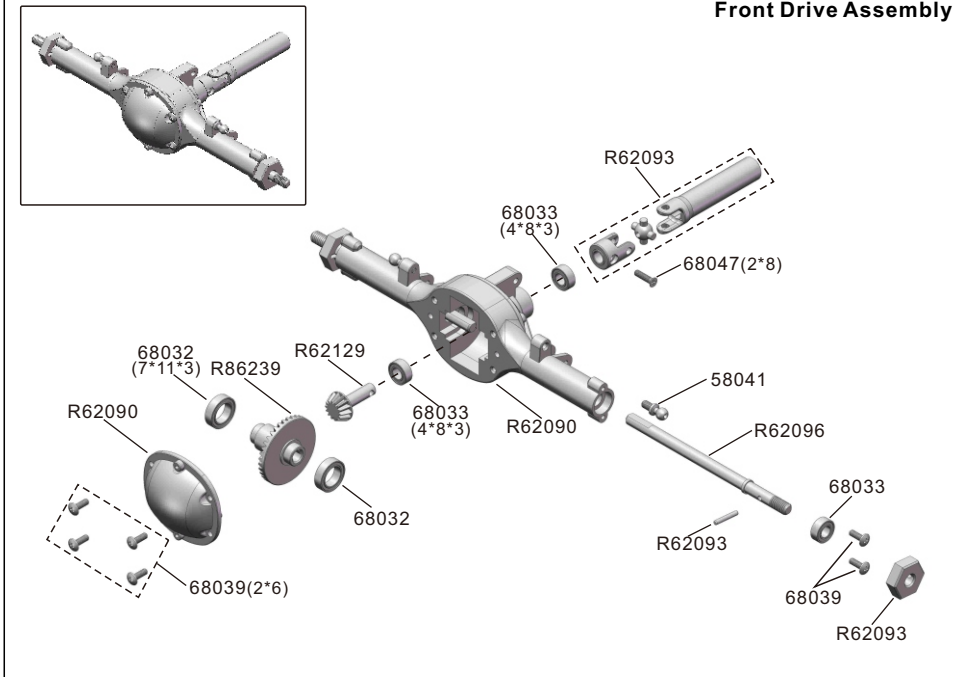
Not able to charge the batteries:

If you do not use it for any extended period of time(e.g. for storing), disconnect and take out the battery pack from the vehicle. This will prevent damage from leaking rechargeable battery pack. To prolong battery life, do not permit the vehicle to be used to a standstill resulting in the battery being completely over-discharged. Always stop use when slow running speed is observed. Fully charge the battery pack before use and storing.

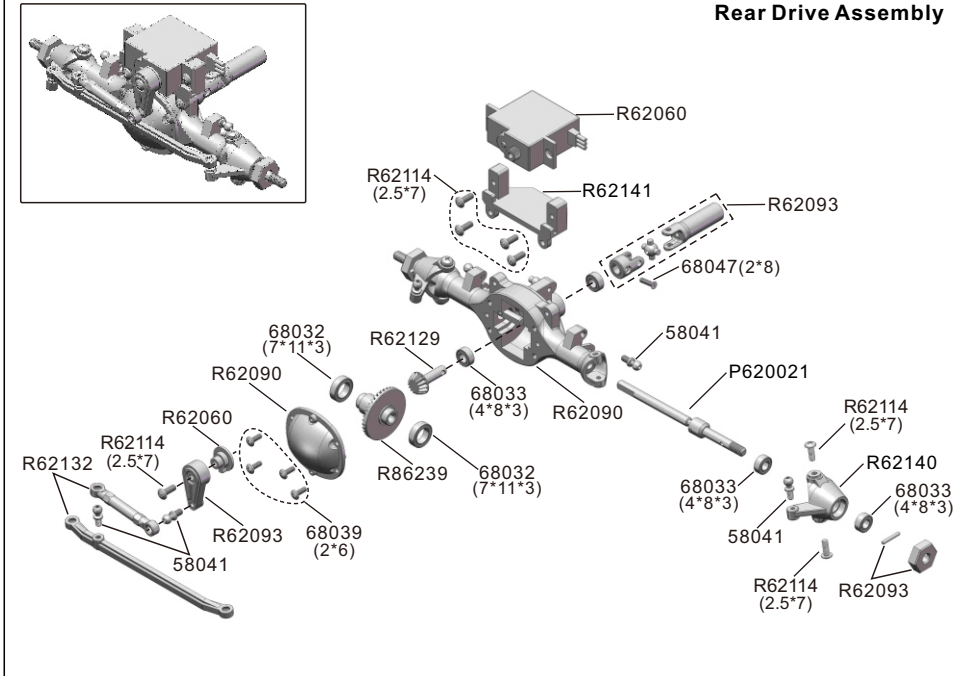
Troubleshooting

Problem	Possible Cause	Solution
Car does not respond during operation	Electronic plugs loose or fall off	Switch off and reconnect
	Vehicle battery not charged, activating the ESC low voltage cut-off to protect the battery	Replace/recharge the vehicle battery
	Motor or ESC dirty or damaged	replace new Motor (recommend to purchase factory Motor)
	ESC failed	replace new ESC (recommend to purchase factory ESC)
	ESC power off by overheated Motor	Stop operation and cool the ESC or Motor
	Motor overheated, demagnetized or damaged	replace new Motor (recommend to purchase factory Motor)
	Transmitter batteries low or beyond the remote control distance	Replace the transmitter batteries, adjust the remote control distance
	Transmitter damaged	Relace or contact seller
No Backward, forward normally	ESC "operation mode" setting error	Relace or contact seller
	ESC damaged	Refer to manual "ESC", set "operation mode" into "forward and backward reverse with brake"
	Throttle damaged or transmitter throttle not centered	Refer to manual "Transmitter", and reset
Car operate automatically, with no control	Throttle trim out of center on transmitter	Refer to manual "Transmitter", and reset
	Neutral throttle is in incorrect position	Adjust ESC in neutral point
Normal operation, speed shift failure	Error Operation	Ensure to operate in stop status, more refer to the Manual
	Gear Cable damge or loose	Replace the accessory or Readjust
	Servo wire inserts in wrong Receiver slot	Refer to the manual, Readjust
Sluggish Action	Battery damaged / not charged	Check, change or recharge
	Throttle trim out of center on transmitter	Adjust (refer to manual "transmitter")
	Motor dirty/ damaged	Clean/ replace
	Drivetrain dirty / damaged	Check and clean
Light Function Failure after Battery properly installed	Light Plug is not connected or in wrong postion	Check the plug connection
	Transmitter Set Error or Light Control Panel Damage	Reset the Transmitter. Otherwise, please check the light control panel is damaged or not.
	Light Cable in wrong installation and connection	Readjust the installation and Connection
Lack of steering and throttle	ESC power off by overheat	Stop operation, cool the ESC
	Transmitter too near interfere electronical objects	Check and rebind transmitter and receiver, refer to manual
Vehicle moves left / right without steering input	Steering accessories damaged	Check and replace
	Wheel loose	Check and replace
	Drivetrain dirty / damaged	Check and replace
Controls Reversed	ST. REV or TH. REV	Change switch position, refer to manual
	Check the wires between ESC and Motor correct or not	Switch the motor black and red wire
Clicking noise in operation	Check the bodyshell damaged or fall off	Retrim or replace
	Loose or tight between motor gear and main gear	Reset gear mesh
	Gear damaged or rocked	Remove gear cover and inspect. If necessary, replace gear
Only steering, no forward and backward	ESC failed or abnormal	Reset the neutral point or replace
	Transmitter failed or abnormal	Relace or contact seller

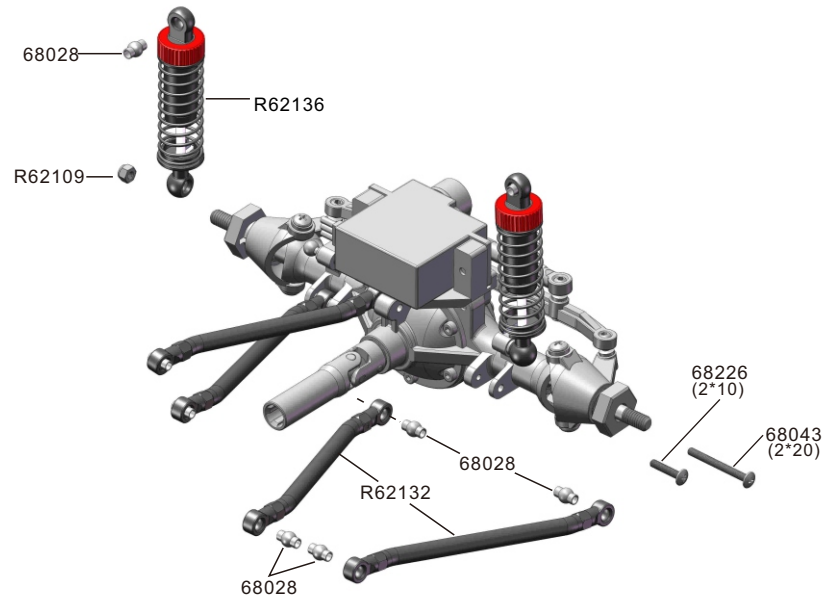
Front Drive Assembly



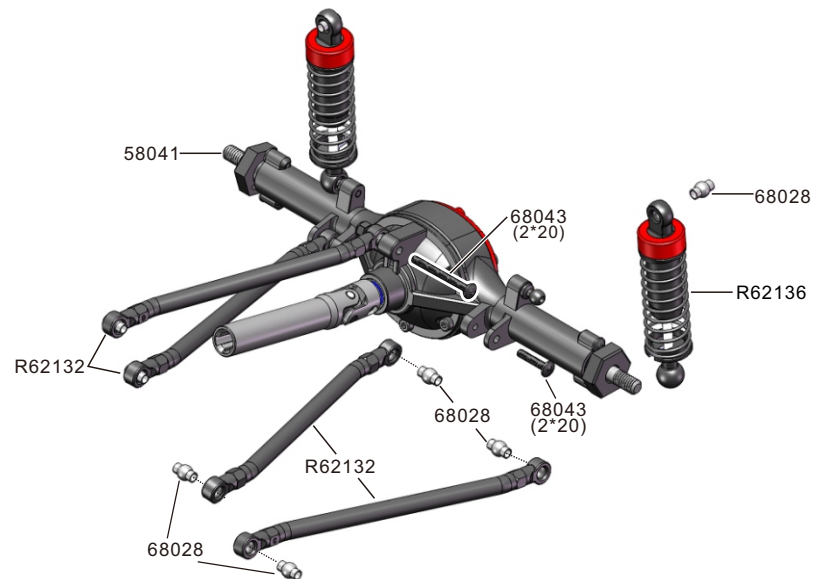
Rear Drive Assembly



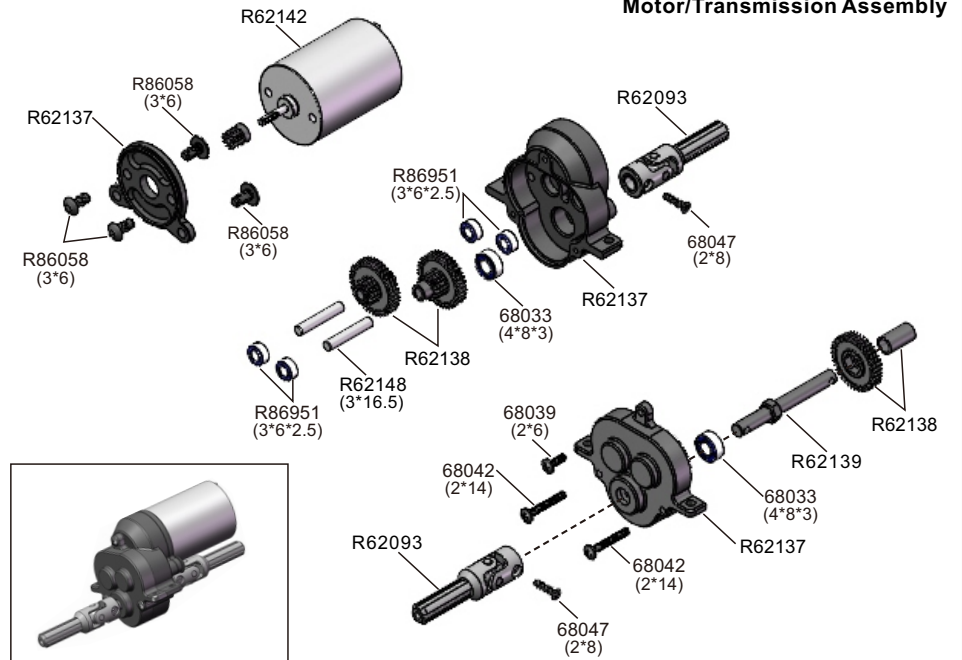
Front Shock Absorbers Installation



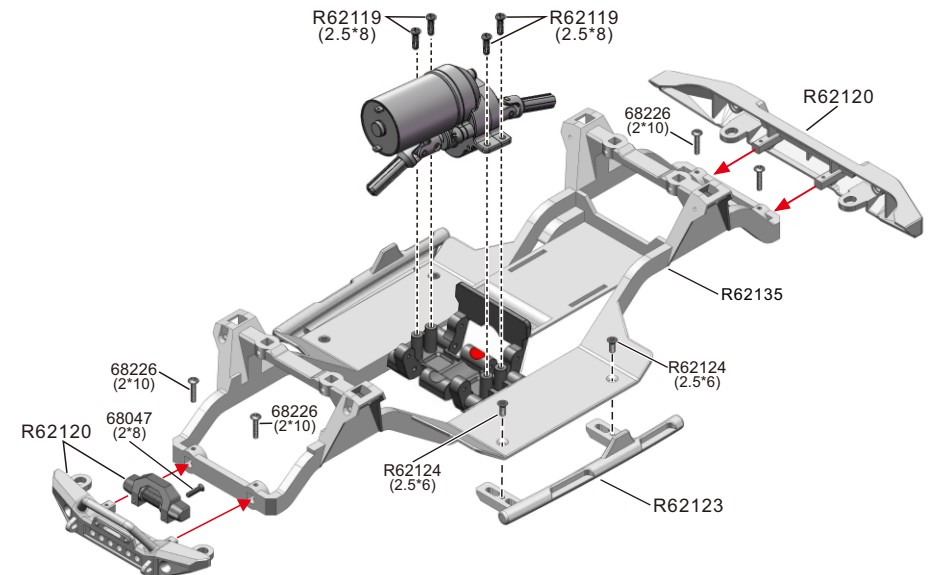
Rear Shock Absorbers Installation



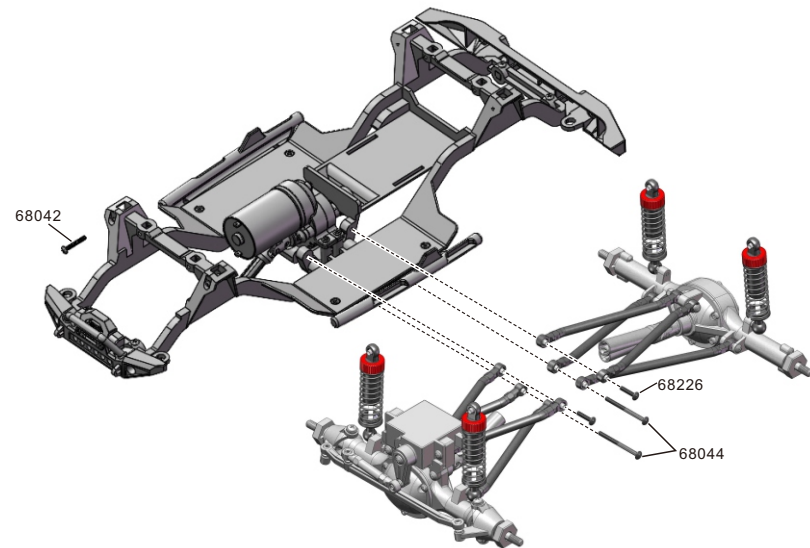
Motor/Transmission Assembly



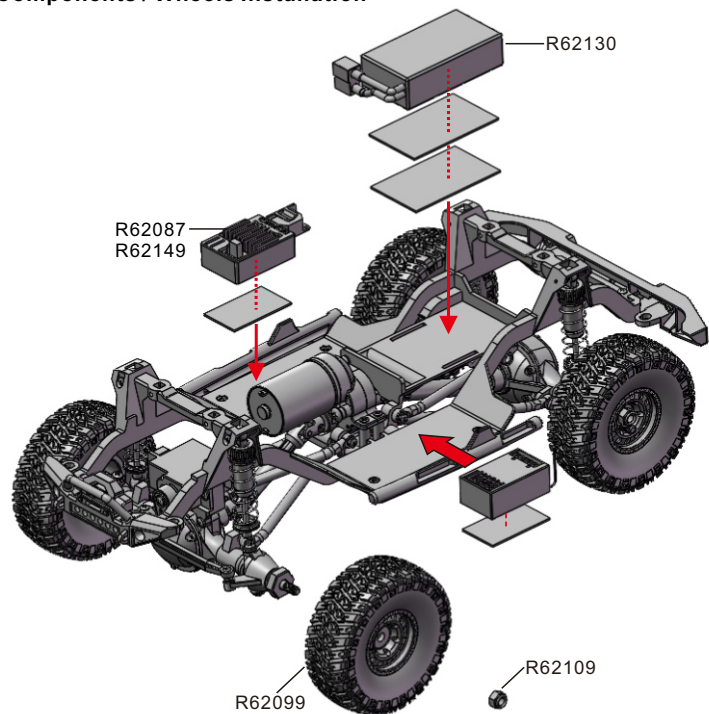
Mounting Center Gear Box/Bumper Installation



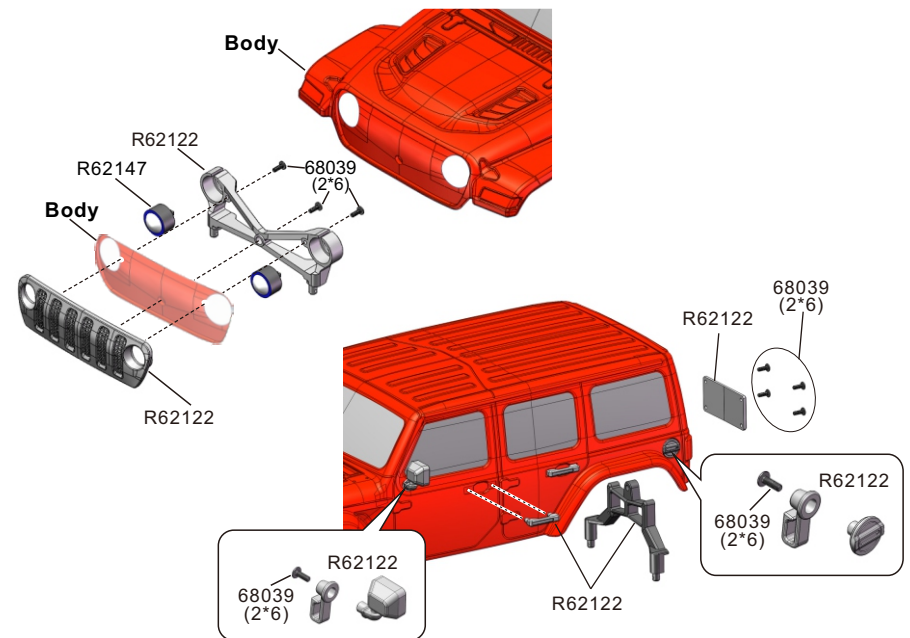
Front/Rear Axle Complete Installation



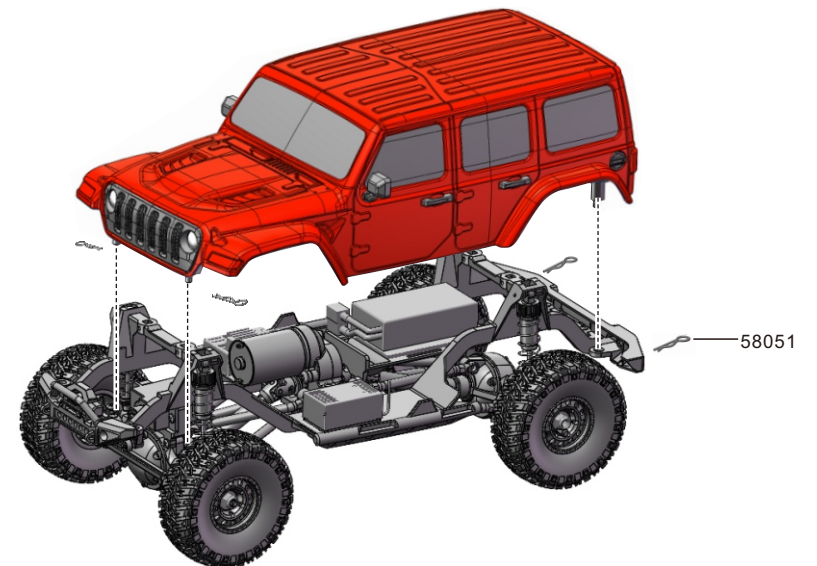
Electric Components / Wheels Installation

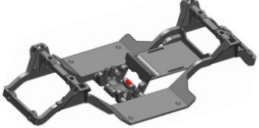
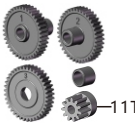
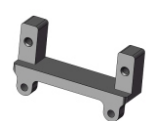
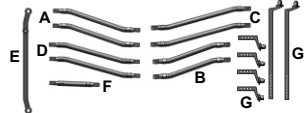
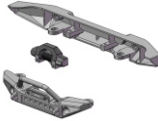
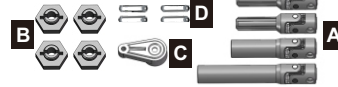
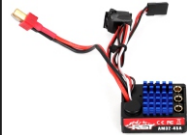
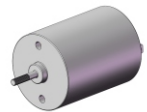
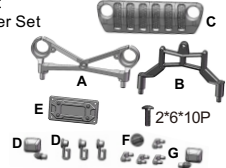


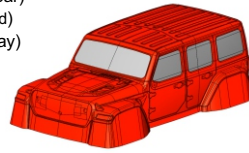
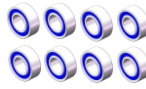
Bodyshell Accessories Installation



Bodyshell Installation



Spare Part				
R62135	R62136	R62137	R62138	
				
Main Chassis Set	Shock Set	Gearbox Set	Steel Transmission Gear Set	
R62139	R62140	R62141	R62132	
			A-Front Lower Link, B-Front Upper Link C-Rear Lower Link, D-Rear Upper Link E-Steering Link, F-Servo Link, G-Body post 	
Transmission Gear Shaft	Steering Mount L/R	Servo Mount		
R62090	R62120	Wheel Set	R62093	
		R62099-B(Black) R62099-Y(Yellow) 	A-Telescopic Main Drive Shaft Set B-Wheel Hex C-Servo Hex D-Pin 1.5*10 	
Axle Housing Set(F/R)	Front & Rear Bumper Set			
R62096	P620021	R62129	R86239	R62130
				
Rear Drive Shaft	Front CVD Shafts	Drive Gear(14T)	Solid axle bush W/Main Gear(38T)	Battery/Battery Velcro 7.4V 1100mAh
R62087	R62149	R62060	R62147	R62133
				
ESC/25A	ESC/45A	Servo/17g	LED Front Headlight Set	Lipo Charger
R62142	R62143	R62122	R62123	
		A-Front Light mount B-Rear Body Bumper Set C-Grill Set D-Rearview Mirrors E-Tool Box F-Fuel Cap G-Handle 		
RC370 Motor	Radio/Receiver		Foot Pedal	

Spare Part				
PVC body+Sticker	Pre-Assembled PVC Body		68032	
R62145-0(Clear) R62145-1(Red) R62145-2(Gray) 	R62151-1(Red) R62151-2(Gray) 		 (steel cover) Ball Bearings(7*11*3)	
68033	246020	68028	58041	R62119
				
Ball Bearings(4*8*3)	Bearing (Ø3*Ø6*2.5)	Ball Stand Ø4.0	Ball Head	Rounded Head Screw M2.5*8
R62114	68039	68042	68043	68226
				
Button Head Screw M2.5*7	Button Head Screw M2*6	Button Head Screw M2*14	Button Head Screw M2*20	Button Head Screw M2*10
R86058	68044	68047	R62124	58051
				
Cap Head Hex Machine Screw M3*6	Button Head Screw M2*27	Countersunk Screw M2*8	Countersunk Screw M2.5*6	Body Clip
R62109	R62148			
A-Nylon Nuts M2*4P B-Nylon Nuts M4*4P C-Set Screw M3*2*2P D-E-Clips M4*4P 				
	Pins 3*16.5			

Upgradable Optionals				
R62134	P620018	P620020	R86119	P620016
				
Servo Mount	Bodysell Mounting Plate(AL.)	Steering Link(AL.)	LED Light	Steering Mount L/R(AL.)
P620022	P620024	R62106		
				
Wheel Hex With Pin(AL.)	Shock Set(AL.)	LED Front and Rear Steering Light		



PRODUCT QUALIFICATION CERTIFICATION

Remote control models are specialized and high-value products. If you identify any quality defects upon receipt, please do not use the product and contact the seller immediately to arrange a replacement or return. Please note that we cannot provide any after-sales guarantee for damages which are caused by improper use.

The product conforms to technical requirements of export safety regulations.

Factory Address: Huang Jiang Town, Dong Guan City, Guang Dong Province, China
 Website: www.RGT-RACING.Com

Production Date: refer to packing instruction