

1/10th scale off road standard buggy  
**ITEM NO.: 6588**



# ROCKET

1/10th scale off road brushless buggy  
**ITEM NO.: 6588A**



## 1/10TH SCALE ELECTRIC POWERED OFF ROAD BUGGY

### ITEM NO.: 6588

THIS DATA IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

LENGTH	WIDTH	HEIGHT	WHEELBASE	GROUND CLEARANCE	WHEEL DIA.	WHEEL WIDTH	MOTOR	GEAR RATIO
405MM	245MM	155MM	275MM	18MM	84MM	34MM (FR.) 40MM (RR.)	RC540	1:8.8

#### MAIN FEATURES:

FOUR WHEEL DRIVE SYSTEM  
 HIGH QUALITY ALUMINUM CENTRE SHAFT  
 HIGH QUALITY FRONT / REAR SHAFT  
 OIL FILLED ALUMINUM CAPPED SHOCKS  
 BALL BEARINGS THROUGHOUT WHOLE VEHICLE

- HIGH PRECISION ESC / QUICK RUN RC540 MOTOR  
 - FRONT / REAR BUMPER FOR PROTECTION AGAINST COLLISION  
 - ALUMINUM SUSPENSION ARM AMOUNTS  
 - HIGH GRIP PERFORMANCE OFF ROAD TYRE  
 - STYLISH OFF ROAD BODY / SOFT OFF ROAD BUGGY WING

### ITEM NO.: 6588A

THIS DATA IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

LENGTH	WIDTH	HEIGHT	WHEELBASE	GROUND CLEARANCE	WHEEL DIA.	WHEEL WIDTH	MOTOR ESC	GEAR RATIO
410MM	245MM	155MM	275MM	18MM	84MM	34MM (FR.) 40MM (RR.)	BRUSHLESS	1:8.8

#### MAIN FEATURES:

FOUR WHEEL DRIVE SYSTEM  
 HIGH QUALITY ALUMINUM CENTRE SHAFT  
 HIGH QUALITY FRONT / REAR SHAFT  
 OIL FILLED ALUMINUM CAPPED SHOCKS / ALUM. SHOCK TOWER  
 BALL BEARINGS THROUGHOUT WHOLE VEHICLE

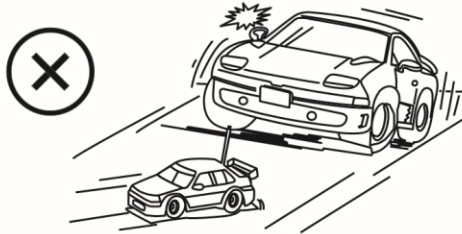
- HIGH PERFORMANCE BRUSHLESS ESC AND BRUSHLESS MOTOR  
 - FRONT / REAR BUMPER FOR PROTECTION AGAINST COLLISION  
 - ALUMINUM SUSPENSION ARM AMOUNTS  
 - HIGH GRIP PERFORMANCE OFF ROAD TYRE  
 - NEW STYLISH OFF ROAD BODY / SOFT OFF ROAD BUGGY WING

★ Please read this manual carefully before use.

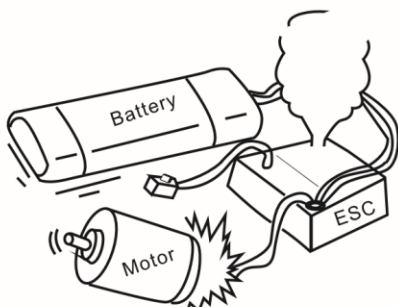
**FULLY ASSEMBLED!**

## GENERAL WARNINGS

- Under no circumstances should you operate your car in crowds of people. Serious injury could result.
- Never operate your car on any public streets. This could cause traffic accidents, personal injury and/or property damage. The car is only allowed to be driven on the track where is for RC cars.



- Do not use your car to chase pets or other animals.
- The receiver, steering servo and other electronics installed in your car are not waterproof; therefore, do not drive through water, wet grass, mud or snow.
- Because your car is operated by radio control, it is important to make sure you are always using fresh and/or fully charged batteries. Never allow the batteries to run low in the radio controller or you could lose control of your car.
- If your car becomes stuck, release the throttle, then retrieve it by hand.
- Do not continue to apply the throttle or you may damage the motor and/or the ESC (electronic speed controller).
- Before running your car, check the battery wiring and plugs are not loose. Otherwise, it could cause damage to your car when running.



- Before running your car, make certain to adjust the stop, low, middle, and top speed positions of your car.
- A worn motor will overheat and result in a short running time.
- Replace a worn out motor as soon as possible.



**Any malfunction incurred by contrived upgrading and modification will void warranty.**

## RADIO CONTROL SYSTEM WARNINGS

- If you are testing the motor, be careful not to touch any moving parts. Serious injury could result.
- To prevent excessive r.p.m.'s from damaging the motor and/or the drivetrain components, we suggest reducing the throttle while in the air during jumps.
- It is normally the case that the car runs slower when it is going uphill. It does not mean anything wrong with the car.
- Never attempt to re-assemble motor, ESC, and receiver which have been well adjusted at factory.
- Always apply our recommended optional parts to your car.
- To upgrade your car allows you to upgrade the whole system (such as motor, ESC, receiver and the like). They should be well matched.
- When turning on your car, always turn ON the radio control before turning ON the receiver.
- When turning off your car, always turn OFF the receiver before turning OFF the radio control.
- Never cut the receiver antenna shorter or you could lose control of your car.
- When operating your car, make sure the radio control's antenna is completely extended.

## BATTERY/CHARGER WARNINGS

- Always unplug the battery pack when not in use.
- Always allow the battery to completely cool before recharging.
- Never over-charge the battery or serious damage to the battery and/or the user could result.
- Periodically check the battery for excessive heat build-up during the charging process. If the battery is hot to the touch, remove it from the charger and let it cool. Never leave the battery unattended during the charging process.
- Do not dismantle or modify the battery or charger. No user serviceable parts are inside.
- Never charge your battery unattended.

## GENERAL INFORMATION

- ✦ Thank you for selecting our 1-10<sup>th</sup> scale 4WD car. It is designed to be fun to drive and uses top quality parts for durability and performance.
- ✦ This is a high performance R/C kit, and it requires regular maintenance for best performance. Failure to do so will harm performance. In the last pages of this manual there are a complete list of spare parts on sale to keep your car performing at its best.
- ✦ This product is not a toy. It is not suitable for users under 14 years old unless they are supervised by adults.
- ✦ Never attempt to re-assemble the motor , ESC, and receiver. These have been carefully calibrated at the factory.
- ✦ Only use manufactured parts to upgrade your car. If you perform a drive train upgrade, replace the entire system (Such as motor, ESC, receiver and the like) so that all components are properly matched. Any malfunction incurred by custom modification will void your warranty.

## SAFETY CAUTIONS

### ***Before Running:***

- Please read and understand all instructions carefully (Not suitable for operators under 14 years of age, unless closely supervised by an adult.
- Regular check is a must for your car. ( Especially for tightness of wheels, screws, nuts and bearings...)
- Always use fresh batteries for your transmitter and receiver to avoid losing control of your car.
- Please confirm the neutral throttle trigger position.
- Keep in mind that before running you must turn on the transmitter first, then the receiver.

### ***While Running:***

- Never run on a public street, this could cause serious accidents, personal injuries and/or damage to properties.
- Never run near pedestrians or small children.
- Never run in small or confined areas.
- Never keep close to the operators using same frequencies at the same time. Failure to do so will cause lose of control of your cars.

### ***After Running:***

- Bear in mind that before running you must turn off the receiver first, then the transmitter.
- It is necessary for you to perform routine maintenance. Failure to do so can result in increased wear and harm the performance.
- Remove battery from the car if it is not in use in a long period. Also, remove batteries from transmitter if not in use.
- Check all wires and connectors ( on motor , on ESC and on battery). If damaged replace and repair them immediately.
- Never touch motor just after running as it can cause burn.

## PACKAGING INCLUDED:

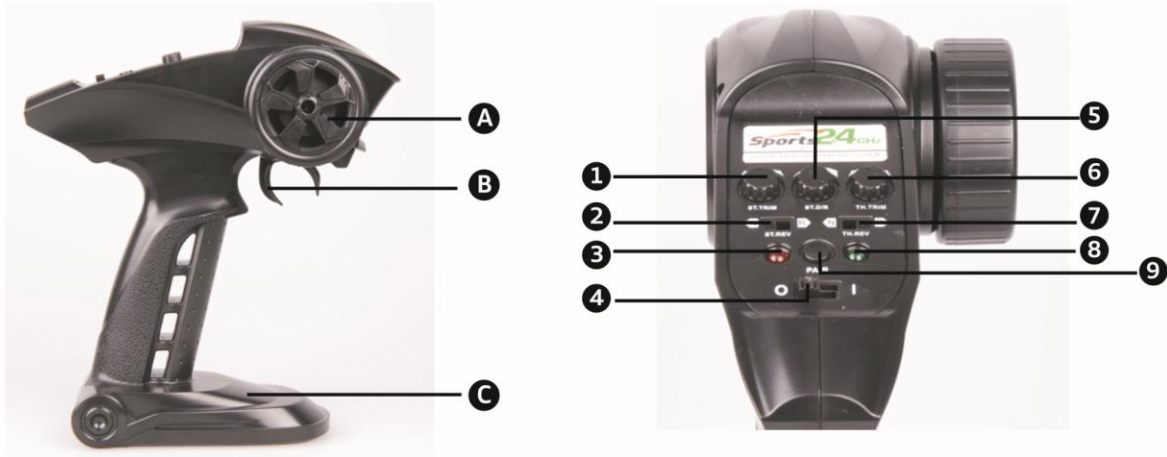
- ✦ One 1-10th Scale 4WD electric powered R/C car ( Battery and charger are included.)
- ✦ One Radio Control ( not specified)
- ✦ One English instruction manual
- ✦ Antenna Pipe

Please charge your battery before running. And, install AA size batteries ( not included) to your radio controller.

## RADIO CONTROLLER

### FUNCTIONS OF SWITCHES

Your car is equipped with the new 2.4GHz radio system .Please read and understand all instructions below before operating.



<b>A: Steering Wheel</b>	<b>1: Steering Trim</b>	<b>4: Power Switch</b>	<b>7: Throttle Reverse</b>
<b>B: Trigger</b>	<b>2: Steering Reverse</b>	<b>5: Steering Dual Rate</b>	<b>8: Green Indicator</b>
<b>C: Basement (Battery Case)</b>	<b>3: Red Indicator</b>	<b>6: Throttle Trim</b>	<b>9: Bind(Pair) Key</b>

**Steering Wheel:** It proportionally operates the model's right and left steering control.

**Basement(Battery Case):** It requires 3pcs of AA size batteries, which are not included in the package.

**Power Switch:** It is used to turn the radio controller ON/OFF

**Steering Dual Rate Dial:** It allows you to change the amount of steering servo travel compared to the amount of physical movement of the steering wheel.

**Trigger:** It controls the speed and braking ability of your car. Pull it to accelerate, release it to decelerate, and push it to brake. Pushing it a second time activates the reverse feature.

**Throttle /Steering Trims:** They are used to adjust the center trim of the throttle/steering channel.

**Steering Reverse:** It allows you to electronically switch the direction of steering servo travel. For example, if you move the steering wheel to the right and the steering servo moves to the left, flip the Steering Reverse Switch to make the steering servo move to the left.

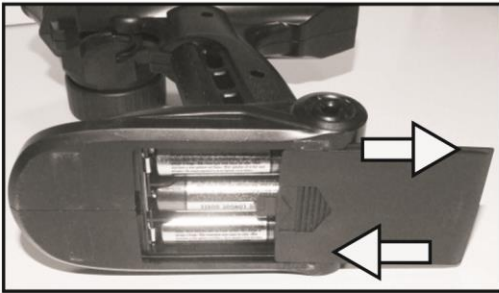
**Throttle Reverse :** It allows you to electronically switch the direction that the motor operates in relation to the throttle trigger.

For example, if you pull the throttle trigger to accelerate forward, but the model goes in reverse, flip the Throttle Reverse Switch to make the model accelerate forward.

**Bind(Pair) Key:** It is used to bind your 2.4GHz radio system.

**Indicators:** It shows battery power level. Green indicator flashing means battery power is not enough. As long as both red and green indicator goes flashing indicating that the radio controller runs out of battery power, you must replace with fresh batteries immediately.

## BATTERY INSTALLATION



- 1) Slide the battery cover as shown , and according to the illustrations of polarities, install 3pcs of AA size batteries.
- 2) Replace the battery cover after batteries are installed.

### NOTES:

- Use batteries of same type.
- Remove batteries from the case if not in use.
- Always check the battery power.
- Dispose of exhausted batteries properly.

## 2.4GHz RECEIVER

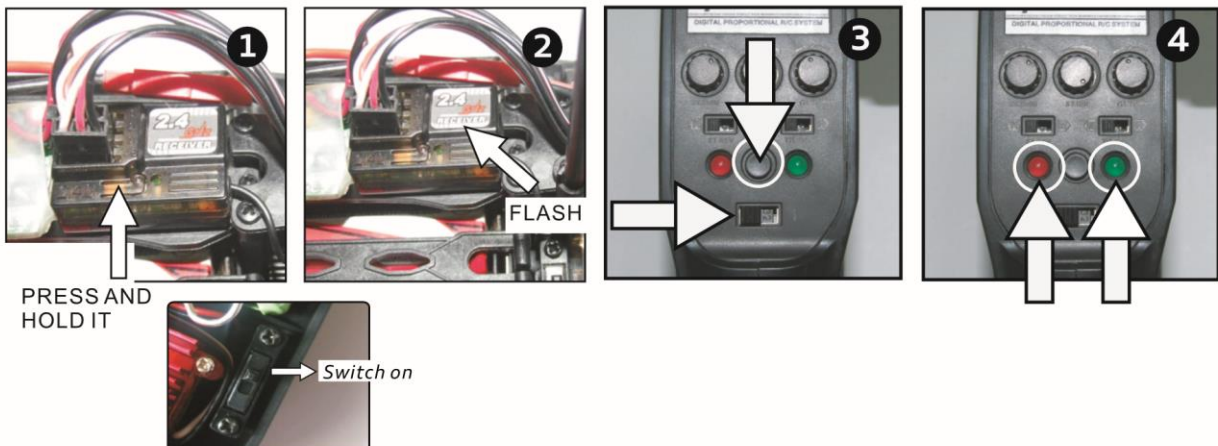


- 1 • Channel 1 to steering servo
- 2 • Channel 2 to ESC (or throttle servo)

Press the BIND button a second time to activate FAIL SAFE feature by the time the binding process is completed.

## BINDING OPERATION

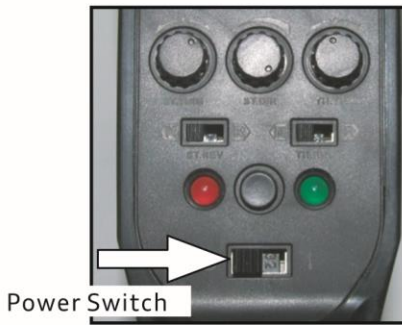
Before running, make sure that the radio controller is bound with the receiver, which has been done at factory. If the model is not responding to the controller, it is possible that the controller and receiver are not bound, and you must perform the binding procedure following the instructions below.



- 1) Press and hold the Bind Button which is located on the receiver, switching on the receiver power on car.  
(The image may vary from your received model)
- 2) Release the Bind Button on the receiver immediately the indicator flashes rapidly.
- 3) Press and hold the Bind(Pair) button on the radio controller, switching on the radio controller.  
Green indicator goes flashing, meaning that the binding process is being performed in system.
- 4) Red and green indicators being steady on means that your receiver is bound to your radio controller.  
Binding process is completed.

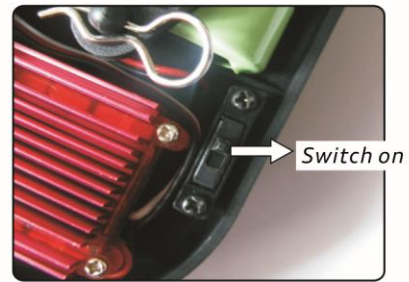
## RUNNING YOUR CAR

### 1 TURN ON RADIO CONTROLLER



1) Slide the power switch of the radio controller to ON, which is located on the top of the radio controller.

### 2 TURN ON RECEIVER

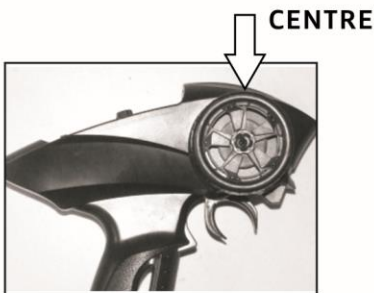


2) Slide the power switch as illustrated to switch on the receiver.

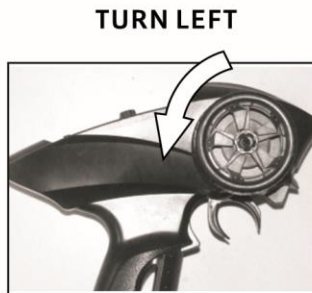
### CAUTION

- Before using your car, make sure the radio controller is of enough battery power. Low battery power will lead to the loss of control of your car.
- Always turn on the remote controller firstly, and then the receiver.

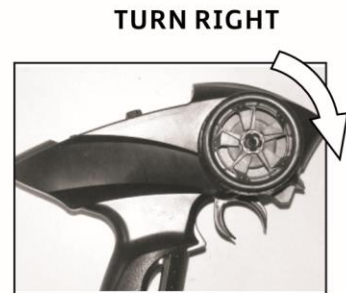
### 3 CHECK STEERING PERFORMANCE



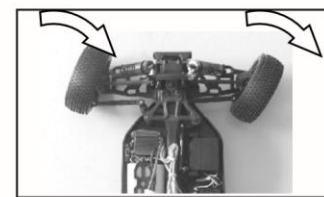
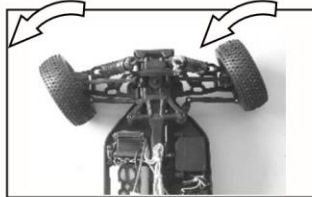
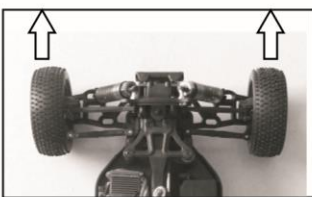
1) To keep the car run straight in line, do not turn the control wheel.



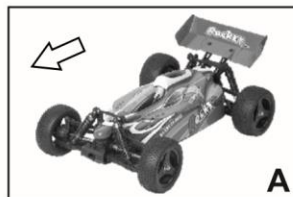
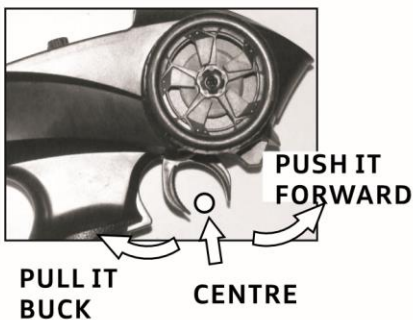
2) Turn it left to allow your vehicle turn to left.



3) Turn it right to allow your vehicle turn to right.



### 4 CHECK TRIGGER RESPONSE



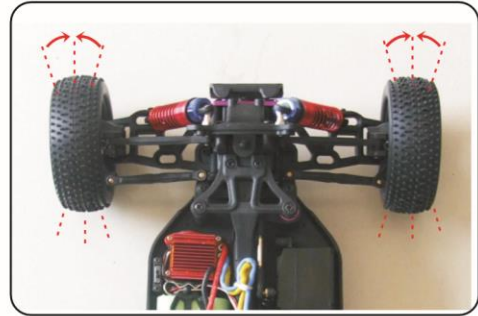
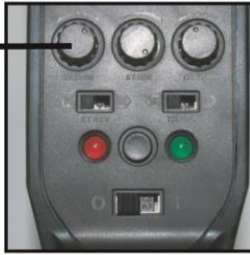
A. Pull the trigger back to accelerate, release it to decelerate and push it to brake.

B. To stop running your car, release the trigger to Centre.

C. Pushing the trigger a second time activates the reverse feature.

## 5 TO TUNE THE STEERING TRIM

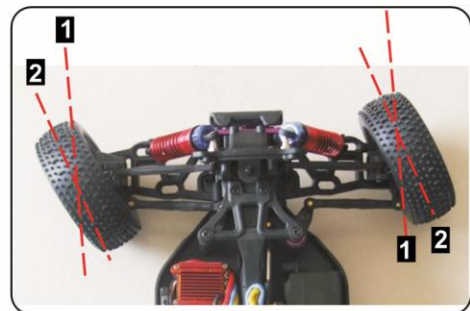
STEERING TRIM



Gently pull the trigger to allow your car to run slowly. Meantime, tune the steering trim to allow the front wheels to be aligned.

## 6 TO TUNE THE STEERING DUAL RATE CONTROL DIAL

STEERING D/R

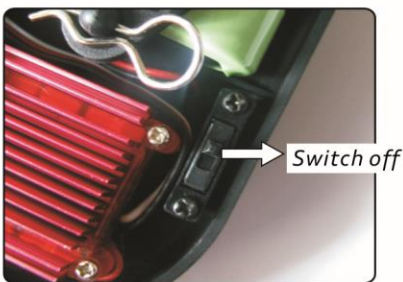


This dial adjusts the overall travel of the steering servo. Push the dial forward for maximum steering. Pull the dial back to reduce the steering level.

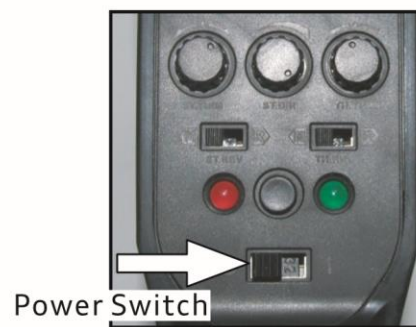
- Set the Steering Dual Rate Control Dial to Minimum first. To set the desired steering level increase it again whilst decelerating your vehicle.

## STOPPING RUNNING

### 1 TURN OFF RECEIVER



### 2 TURN OFF RADIO CONTROLLER



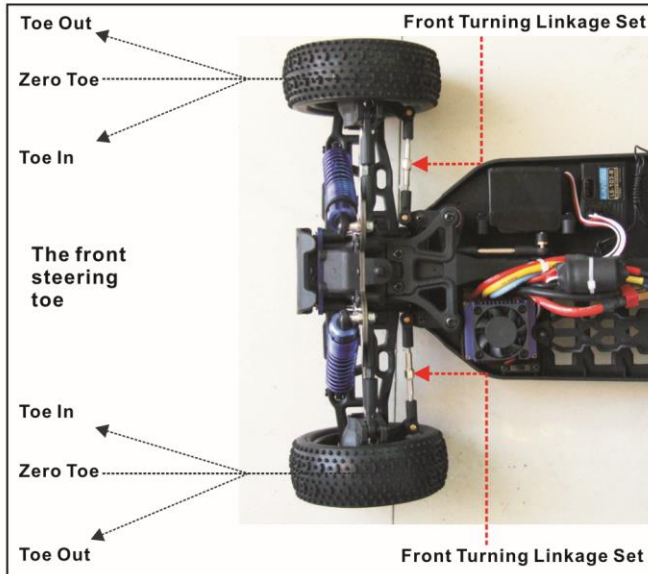
## CHARGING YOUR CAR RECHARGEABLE BATTERY

Your model can be customized to enhance speed and performance. Simple adjustment and easily maintained setting will assure optimum operation and performance. When making adjustments, do so only in small increments and always check for other parts of the vehicle that are affected. Many after market options are available to make your R/C vehicle faster and stronger. Please read the section carefully and it always make sure you write down your base settings in case you need to refer to them at a later date.

### Front Steering Toe Angle Adjustment

The front steering toe angle has a dramatic on how your car performs and how your tires wear.

You can have toe-in, zero toe or toe-out. This can be adjusted by tuning the length of the steering linkage screwbolts.



*Before tuning , the steering linkage screwbolts should be removed from the vehicle.*

*Measure the desired length by unscrewing or screwing in. After adjustment is complete, re-install them to the car.*

*Toe-in will be less reactive and cause the vehicle to under steer(the front wheels push straight on while turning).*

*This can be advantageous for operators struggling to get to grips with the driving of the vehicle.*

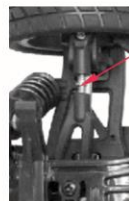
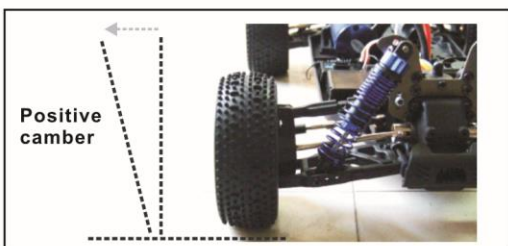
*Toe-out will be more aggressive on the steering response especially on small steering inputs. This will make the car want to over steer(rear wheels slide on small steering inputs).This is useful as a race tuning aid to gain extra steering.*

*Zero toe will make the front wheels run straight and make the car very neutral. Tire wear will also be reduced and the vehicle will feel easier to drive.*

### Camber Adjustment

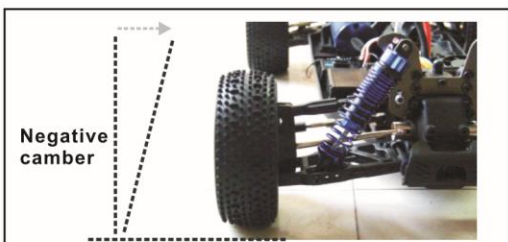
Camber can be adjusted on all 4 wheels of the car. You can have negative camber or positive camber which will affect the contact patch of the tire both statically and while cornering. Camber is mainly used to control the wear of the tire. You should adjust the camber to equal the wear all across the surface of the tire. Camber is adjusted by the upper linkage screwbolts.

Note: ( Before tuning, the screwbolts should be removed from the vehicle. Measure the desired length by unscrewing or screwing in. After adjustment is complete, re-install them to the car.

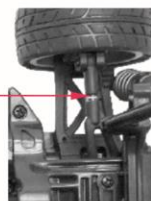


Front Upper Link Turnbuckle

This is an example of positive camber. This is when the bottom of the wheel is closer to the centre of the car compared to the top of the wheel. Positive camber will give less contact area in the corner and less grip. Excessive amounts will cause less grip and uneven wear.



Rear Upper Link Turnbuckle

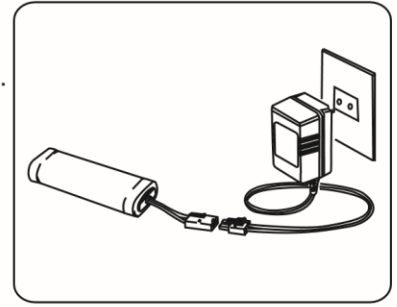


This is an example of negative camber. This is when the top of the wheel is closer to the centre of the car compared to the bottom of the wheel. Negative camber will give more contact area in the corner and more grip. Excessive amounts will cause less grip and uneven wear.



## CHARGING YOUR CAR RECHARGEABLE BATTERY

- Use only the specified charger (7.2V,500mA) to charge your battery pack.
- For better battery performance please discharge your battery before charging it.
- Never charge your battery over 3-4 hours.
- Never charge the battery pack unattended.
- Always use the battery after it is fully charged.
- Dispose of the damaged battery pack in the recycling dustbin.



## MAINTAINING YOUR CAR

After running your car, the following procedures should be performed regularly and will help to maintain your car's performance.

- 1) Inspect your car for any obvious damage.
- 2) Check the gears for wear, debris or broken/slipping teeth.
- 3) Check the wheels and tighten the wheel screws properly.
- 4) Check for loose screws in the chassis.
- 5) Check the wiring for frayed or damaged wires or connectors.
- 6) Check the steering servo which will wear out over time and require replacement. Check all batteries.
- 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.
- 10) Remove all batteries if you are from the car when not in use.

## TROUBLESHOOTING LIST

**A. The vehicle does not work at all.**

1. Check to see if transmitter and car are on.
2. Check to see if TX/RX are properly bound.
3. Adjust throttle trim on transmitter
4. Replace batteries.

**B. The vehicle runs slowly.**

1. Remove the battery and charge it.
2. Make sure the vehicle is geared properly and the pinion and spur gear are over tightened.
3. Clean all bushings or ball bearings.
4. Check for stripped or dirty gears.

**C. The throttle works, but not the steering.**

1. Check if the servo feels jammed, try centering it by hand gently.
2. Check the whole steering system.

**D. It steers, however, throttle is uncontrollable.**

1. Adjust the throttle rim.
2. Replace the batteries.

**E. The vehicle runs noisily.**

1. Check gear mesh between spur gear and pinion.
2. Check for stripped and/or dirty gears.
3. Clean and oil the bushings or ball bearings.