866-167 168 169

# POWER RACING MONSTER

2.4GHz RADIO REMOTE CONTROL TRUCKS

**2.4G REMOTE CONTROL**
HANDLING AND SPEED

1:16 SCALE

4X4 DRIVE

This product MUST be handled with due care . We understand high speed is our long pursuit . However , safety is also to be regulation to observe.
Do not operate in busy or spacious area and do not operate it where people are congested.
Do not attempt to assemble or dissemble the electronic units , and when it is not in use , you MUST keep it out of children's reach.
This product is fully assembled at factory . Malfunction and damage that result from misuse and/or abuse will void the warranty . Command modification will also void the warranty.

**Warning :**

Please read and understand the manual before using , assembling and/or disassembling.
This is not a toy , but an authentic RC model. It is not suitable for children under 14 years of age.
Only when the adults kept to supervision can the operators under 14 years use this product .
Do not attempt to run the vehicle by low battery power . Please charge the battery pack immediately the slow speed is observed . Do not overcharge the battery pack .

## OPERATING INSTRUCTIONS OF HIGH-SPEED R/C RACING VEHICLE

This is one model of 4WD off-road high-speed racing vehicle with extremely good off-road performance. From the four-wheel independent suspension design and 4WD transmission System, every detail is carefully developed and this racing vehicle can be operated under extreme weather or harsh environment. Even you can still enjoy the interesting fast water splashing in raining day or drive it in various humid environments.

When you receive your favorit vehicle, first of all, please remove the "R" button from the vehicle shell and then remove the vehicle shell. Insert the battery plug into the plug of RF drive board. Press the red ON/OFF button,first time the LED light will be flashing. Load correctly, (PCS AA batteries into the transitter as per the correct "+/-" polarity. Pull to "ON" position, the LED light on the transmitter will turn from flashing into eternal bright "ON" , which represents it has been successfully decoded and you can operate this R/C vehicle. Due to the high speed, please do operate it under the safe environment.

For the sake of safety, we designed the first backward as the braking function and designed the blocking protection function for the driving motor and designed the anti-collision buffer function for the steering gear, low-voltage reminding function and forced-sleep function.

During the process of racing forward or backward, when the motor load is detected to be too large(including jammed running), the vehicle will stop the current output in order to protect the motor from being damaged. When the current operation is stopped, it will automatically exit the state of protection.

When racing forward, the first backward will start the braking functionin order to prevent the vehicle from hitting obstacles. Only when the vehicle racing backward the second time will it race backward.

When the battery power is lower than 30%, the LED light will be flashing for 10 seconds to remind you of insufficient battery power.

When the battery power is lower than 20%, the LED light will keep flasting while switch off the forward and backward function and only left and right steering function is kept so as to prevent the battery from excessive discharge and thus protect the battery.

When the battery power is lower than 10%, the vehicle will be forced to enter into the sleep state and should be charged before switching on. If the transmitter has successfully finished decoding with the vehicle, however, the LED light of the transmitter still keeps flashing it represents battery power in the transmitter is insufficient and you need to replace new batteries.

## GENERAL INFORMATION:

Time to make an authentic hobbyist out of yourself, this 1/16TH SCALE 4WD vehicle can necessitates it. Ready to run out of the box . Small as it is , this vehicle does never compromise itself on performance in contrast with any other R/C vehicle in big size . Energetic power and swift acceleration award you the worthwhile admire from all people around you.
This vehicle outgrows the fear of running at high speed , but safe and modest driving are strongly recommended.
Most of parts are responsive to great fun . Get it fast and unleash it on ground.

- Hybrid Plastic Body.
- Front & Rear Independent Suspension.
- Speed: up to 30+ km/h
- 2.4GHZ Radio System.
- 6 no. batteries (AA) for battery pack, and USB charger included.
- This R/C vehicle is not a toy but an authentic hobby grade product.
- It is not intended for users under 14 years of age , unless closely supervised by an adult.
- Never operate this vehicle by low battery power.
- Please stop running this vehicle and charge the battery pack when its standstill is observed. Standstill indicates that the battery is flat.
- Never overcharge the battery pack , and never charge the battery pack unattended.
- Abuse and incorrect operation will void the warranty.

## BATTERY SAFETY INFORMATION

The included Li-ion battery pack is not waterproof . Do not expose it to any source of heat and humidity.
Do not operate your vehicle where it could come in contact with salty water ( ocean water or water on salt-covered roads ), contaminated or polluted water . You are required to charge the battery pack before first-time use.

**NOTE:**
Please disconnect the battery pack with your vehicle when not in use
Do not attempt to run your vehicle immediately it comes to standstill.
Failure to do so will discharge and damage the battery pack.
Charge the battery pack immediately the slow speed is observed.



## GETTING FAMILIAR WITH THE CHASSIS

*The image is presented only for reference , which may vary from your received model.

## PRECAUTIONS FOR 2.4GHZ RADIO CONTROLLER

**IMPORTANT INFORMATION:**
Switch on the radio controller , and then the ESC/Receiver on the vehicle.
ine tonering process is autornecany performeae in system.
Never flip the Trigger or the Steering Wheel the moment you are switching on the radio controller.
Failure to do so will cause the radio system to record the incorrect signals.

You are ONLY permitted to handle the Trigger and the Steering Wheel after your vehicle is bound with the radio controller.

**Do NOT flip the trigger or the steering wheelat the time you switch on the radio controller .**

## SAFETY INFORMATION-1

We want users to enjoy our RC vehicles and to operate them with care . Failure to operate your vehicle in a safe and responsible manner may result in injury to yourself , others or damage to property around you.

*Read and understand all instructions carefully before use and assembly / disassembly.
*Do not run your vehicle on public roads or any area where you may encounter pedestrian or vehicle traffic.
*Do not operate in a congested area or in crowds.
*Do not operate your vehicle with obstructed line of sight,at night , or near water.
*Keep all radio control systems and radio waves are subject to interference. Radio interference can cause loss of control of your vehicle.
*Take care not to cut yourself while using tools to adjust or upgrade your vehicle.
*Since the model contains many small parts , keep out of each of children while assembling and/or disassembling.
*If your vehicle 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/receiver unit.

## SAFETY INFORMATION-2

*Your vehicle is designed to run on uneven or rough terrain . However dust , sand , water and carpet fibres can lodge in the working parts of your vehicles and can damage your vehicle if not removed promptly . We do not warranty your vehicle from damage due to outside elements including sand , dirt or water . The users are responsible for the maintenance and safe operation of the vehicle.

*This product is not a toy . It is not suitable for users under 14 years old unless they are supervised by adult.

*Never attempt to re-assemble any electronic components . These have been carefully calibrated at the factory .

*Only use manufactured parts to upgrade your vehicle . If you perform a drive train upgrade , replace the entire system ( Such as motor , ESC/receiver unit and the like ) so that all components are properly matched. Any malfunction incurred by custom modification will void your warranty.

*Before driving your vehicle , please read this manual completely and examine your vehicle and radio control for any defects .

*For better performance , some adjustment may be necessary.

*This vehicle requires one battery pack ( included in the vehicle or in the packaging ). Make sure the vehicle's batteries have a sufficient charge before driving or possible loss of control may result . The radio controller requires two AA size batteries ( not included in the packaging).

* Always remove batteries from the vehicle and the radio controller when not in use.

*Please operate your vehicle in a spacious area . Never operate your vehicle in crowded street.

* This product is fully assembled at factory . We do not take any responsibility for damage and/or accidents that occur as the result of custom modifications and/or incorrect operation.

## RECEIVER

Press and hold for 2-3 seconds to switch on or off.

1) Power switch
2) Servo Slot
3) Aux. Studio- LED light if it contains LED)
4) For Motor Plugs
5) Antenna
6) Power cable

for 2S(7.4V) battery only.
Always erect the antenna for best performance

## INSTALLING THE BATTERIES TO RADIO CONTROLLER

The battery cover is located on the bottom of the radio controller . Open the battery cover as shown in the photos , install three AA size batteries into the battery compartment. Observe the correct polarity.

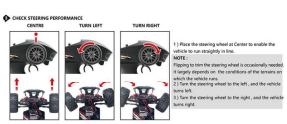
**BATTERY PRECAUTIONS:**
1 )Do not mix new and old batteries.
2 ) Use batteries of same brand.
3 ) Always remove batteries when not in use.
4 ) Always remove batteries from the radio controller if of enough battery power . Low battery power will lead to the loss of control of your vehicle.

## GETTING FAMILIAR WITH THE RADIO CONTROLLER

1 ) Steering Trim
2 ) Throttle Trim
3 )Steering Reverse
4 ) Speed Control (limiter)
5 ) Throttle Reverse
6 )ON/OFF Power Switch
7 )Steering Wheel
8) Throttle Trigger
9) Battery Compartment

## STARTING RUNNING

**CHECK STEERING PERFORMANCE**




1 ) Place the steering wheel at Center to enable the vehicle to run straightly in line.

NOTE:
Flipping to trim the steering wheel is occasionally needed. It largely depends on the conditions of the terrains on which the vehicle runs.
2.) Turn the steering wheel to the left , and the vehicle turns left.
3.) Turn the steering wheel to the right , and the vehicle turns right .

**CHECK TRIGGER RESPONSE**

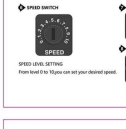
A. Pull the throttle trigger backward, the vehicle will forward.
Adjusting the angle of throttle trigger can adjust forward speed of the vehicle. During the vehicle's going forward, quickly push the trigger forward to stop it.
B. To stop running your vehicle , release the trigger to Neutral.
C. Loosen the trigger to make it return the neutral position when the vehicle is going backward, the vehicle will stop backward.
Adjusting forward angle of throttle trigger adjust backward speed of the vehicle.

**TO TUNE THE STEERING TRIMMER**




STEERING TRIMMER
Tune the steering reference to enable the front wheels to be aligned . Under this case , the steering Center Point is set . You can tune this switch to obtain your desired Left/Right steering angles.

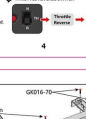
**SPEED SWITCH**




SPEED LEVEL SETTING
From level 0 to 10,you can set your desired speed.

**STEERING REVERSE SWITCH**

**THROTTLE REVERSE SWITCH**




If the vehicle turns right when you steer left, flip "Steering Reverse" switch. If the vehicle turns left when you steer right, flip "Steering Reverse" switch.

If the vehicle goes backwards when you pull the trigger, flip this switch.
If the vehicle goes forwards when you push the trigger,flip this switch.



**STEERING DUAL RATE(D/R)**

**How to use the steering dual rate(Steering D/R) knob?**
The steering dual rate knob drives you to change the amount of steering servo travel compared to the amount of physical movement of the steering wheel. The amount that you increase the steering dual rate is proportional with how much you move the steering dual rate knob.In addition, adjustments can be made while you are driving. So you can fine-tune the steering during a race, etc.By increasing the steering dual rate (turn the knob clockwise), you can make the steering servo travel more which might prevent your vehicle from pushing during turns; By reducing the steering dual rate (turn the knob counter-clockwise), you can make the steering servo travel less which might reduce the amount of turn in the corners.

## STOPPING RUNNING

**TURN OFF THE RECEIVER ON YOUR VEHICLE** **TURN OFF THE RADIO CONTROLLER.**

1 ) Switch off the ESC/Receiver. **Press and hold the button for 2-3 seconds to switch off.**
2 ) Switch off the Transmitter. **Slide the Power Switch to "OFF" position.**
3) Disconnect and removethe battery pack from the vehicle when not in use. Fully charge the battery pack before storing it.
4 ) Make sure there are nodamage parts before storing it. Check gears for wear, debris or broken/slipping teeth. Check for loose screws in the chassis. And make sure the wheels are firmly installed before use.Clean the vehicle with a soft and dry cloth before storing it. Store the vehicle in a clean and dry place out of children's reach.Do NOT expose the vehicle to any source of heat and water.

## CHARGING THE BATTERY PACK

The battery pack should be removed from the vehicle when it is intended to be charged.Remove the clip to open the battery cover as shown in the photo. Remove and disconnect the battery pack.Connect the battery pack with USB charger as shown.Plug on the USB charger to the computer to charge the battery pack.
The red indicator on USB flashes, which indicates that it is charging the battery pack.
The green indicator is solid on after the battery pack is fully charged.

## PRACTICE FOR OPERATION

Once you become conformable driving the vehicle , perform driving practice on the tracks as shown in the figure . Keep practising until you feel comfortable with the rewing , throttle and brake at low speed . Once you are feeling comfortable try operating on another track . When you have mastered the tactics you will be able to drive at higher speeds in a more controlled way.



## SPECIAL ATTENTION!

When the car is played on the beach, the sand may enter into the motor through the heat dissipation hole of the motor, which cause the car can't move forward or backward. At this time, the car should be made sand-upside down, turn both rear wheels at the same time, clean the sand inside the motor and then operate the car again.

## MAINTENANCE

We warmly recommend that you check and maintain the vehicle after use . The items in the list below will facilitate you , and follow the list to maintain performance of vehicle.
- Disconnect and remove the batteries from the vehicle and the radio controller
- Inspect the vehicle for any obvious damage
- Check the drive belts for excessive wear / slipping teeth.
- Check the wheels and tighten the wheel screws / nuts properly
- Check of loose screws in the chassis.
- Check the wiring for frayed or damaged wires and / or connectors.
- Check the steering servo which will wear out over time and require replacement.
- Check all batteries in the vehicle and in the radio controller. Change or replace them.
- Keep the chassis clean and free of sand , dust and moisture.
- Make sure there are no grass ( or something ) getting twisted in the drivetrain and clean them.
- Clean the motor if necessary. ( Never attempt to re-assemble the motor )
- Clean the vehicle body with a soft lint-free cloth.
- Store the vehicle in a clean and dry place out of children's reach. Do not expose the vehicle to any source of heat and water.

## TROUBLESHOOTING

**A. The vehicle does not work at all:**
1) Check to ensure that radio controller and vehicle are switched on.
2) Check the battery power , and replace with the new batteries if necessary.
3) Check if there are damaged parts / wires / connectors , repair or replace if necessary.
4) Vehicle battery is flat . Charge the battery pack.

**A. The vehicle runs slowly:**
1) Vehicle battery is flat . Charge the battery pack.
2) Check if the vehicle is properly geared and no dirty or stripped gears are found , and make sure the reliable gear mesh for motor pinion and the spur gear.
3) Check if there is something troubling to the moving parts , and clean them immediately.

**C. The throttle works but not the steering:**
1) Check if the servo feels jammed , and try centering it gently if it is the case.
2) Check if the servo link is loose or the servo breaks. Repair or replace with a new one if possible.

**D. It steers , but throttle is uncontrollable:**
1) Check if there are damaged parts in the motor drivetrain.
2) Check the batteries both for radio controller and the vehicle.

**E. The vehicle runs noisily:**
1) Check if there are broken spur gear and motor pinion.
2) Check if there are stripped and / or dirty gears.
3) Check if there are some parts getting damaged in the entire drivetrain.

**F. You do not pull or push the trigger , but the vehicle goes forward/backwards:**
Please set the Throttle Trim to Throttle Center Point.

**G. The vehicle is found one direction's steering travel is not same to the other**
Please set the Steering Trim to Steering Center point.

**H. Not able to charge the batteries.**
Check both the charger and the batteries if they are damaged.
Check if the batteries are over-discharged . Replace with the new batteries

FCC Compliance Statements

This device 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 operation.

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 or more 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.

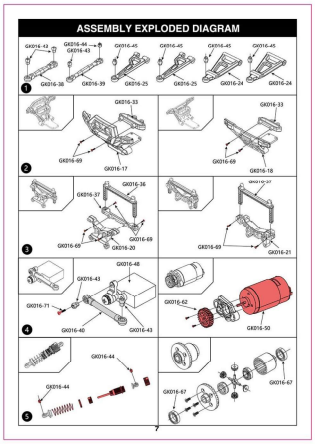
—Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

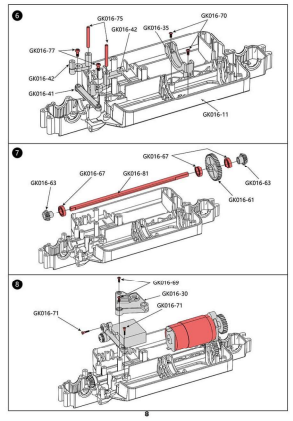
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be located or operating in conjunction with any other antenna or transmitter.



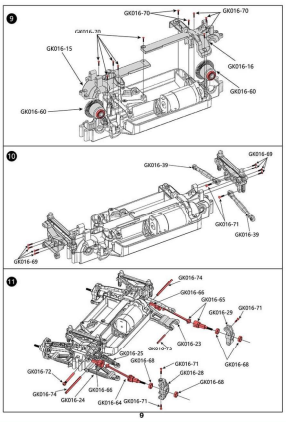
## ASSEMBLY EXPLODED DIAGRAM



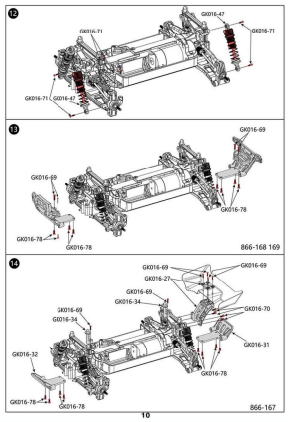


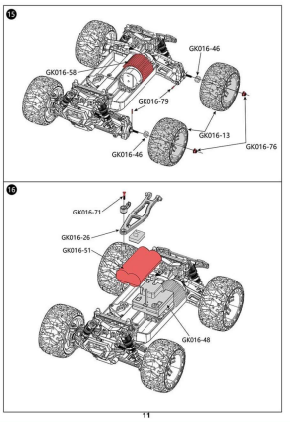






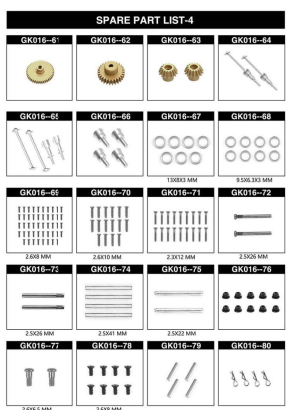



## SPARE PART LIST-1

## SPARE PART LIST-2

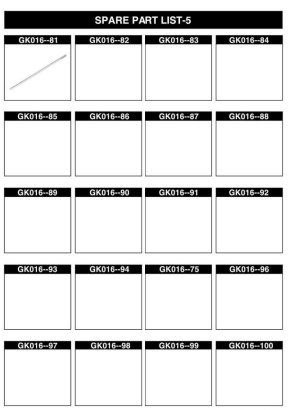
## SPARE PART LIST-3

## SPARE PART LIST-4



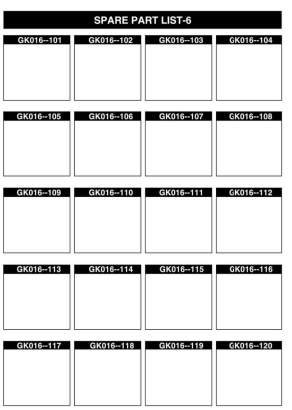



## SPARE PART LIST-5






## SPARE PART LIST-6






866-167

866-168

866-169