

## Four Wheel Drive Electric Power Race Truck

# INSTRUCTION MANUAL

ITEM NO.:903



**14+**  
**YEARS**



**1/12**  
**SCALE**

LENGTH	WIDTH	HEIGHT	WHEELBASE	WHEEL DIA.	WHEEL WIDTH	GEAR RATIO
340mm	270mm	150mm	240mm	95mm	45mm	1:12.5

This data is subject to change without prior notification.

### BATTERY SAFETY INFORMATION

Disconnect and take out the battery pack from the vehicle when not in use. This will prevent damage from a leaking rechargeable battery pack. To prolong battery life, do not enable the vehicle to be used to a standstill resulting in the battery being completely drained. Fully charge the battery pack before each use. Do not leave battery pack uncharged for a long period of time. Store the battery pack in a dry, clean and cool condition.

- This product is not a toy. It is not intended for operators under 14 years of age, unless closely supervised by adults.
- This manual is subject to change without prior notice. The image may vary from the actual product.

## **Caution**

- 1) Please read and understand the manual before using, assembling, and/or disassembling.
- 2) This product is not a toy, it is a high powered RC model, which is not intended for operators under 14 years of age.
- 3) Children less than 14 years old must not operate this product unless they are closely supervised by an adult. Do not touch the motor until it has cooled down.
- 4) Fully charge the battery pack before use. Be sure to disconnect and remove the batteries from both the transmitter and the car when not in use.
- 5) Do not attempt to run the product while low on battery power. Fully charge the battery pack before use. Stop driving immediately when slow running speed is observed. Failure to do such can over drain the pack and cause damage.

## **General Safety Information:**

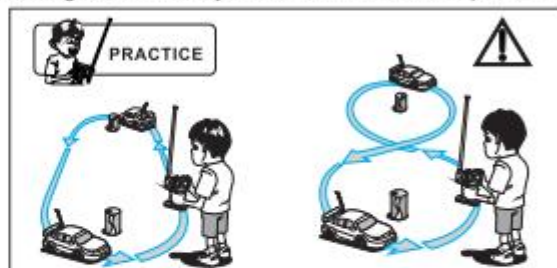
1. This manual is subject to change without prior notification.
2. This product is NOT a toy, and not intended for users under 14 years of age, unless closely supervised by an adult.
3. The specifications and images in the manual may vary from the actual product.
4. Operate this vehicle with due care and be always a good driver which is attentive to others.
5. Under no circumstances SHOULD the user operate the vehicle in crowds of people. Serious injury could result.
6. Never operate the vehicle on public streets or in public areas. This could cause traffic accidents, personal injury, and/or property damage. This vehicle is ONLY be driven on the open track which is for RC cars.
7. Do NOT use this vehicle to chase pets or other animals.
8. The receiver, steering servo and other electronics installed in this vehicle are merely splash water-resistant. Do not immerse this vehicle into water.
9. Regularly checking on the transmitter (radio controller) power is very important. Remove the batteries from the transmitter (radio controller) when not in use. Replace with fresh batteries if necessary. NEVER run this vehicle with low power from the transmitter.
10. When this vehicle becomes stuck, do NOT force on throttle. Failure to do so could cause abrupt damage to the motor and/or the ESC (Electronic Speed Controller). Check and clean the obstacles before running again.
11. Before running this vehicle check if the battery, wiring, and plugs are loose.
12. Be careful not to touch any moving parts when servicing or operating this vehicle.
13. To prevent excessive RPM from damaging the motor, and/or the drive-train components, we suggest reducing the throttle while performing in the air during jumps.
14. Never attempt to re-assemble motor, ESC, and receiver as these have been precisely calibrated at factory.
15. Always apply the factory optional/tooling parts to this vehicle.
16. To upgrade this vehicle requires the user to upgrade the entire radio/driving system (such as motor, ESC, receiver and so forth.) They should be strictly matched with factory components.
17. To run this vehicle, turn on the transmitter (radio controller) first and then the receiver.
18. To stop running this vehicle, turn off the receiver first, and then the transmitter.
19. Straighten the receiver antenna (if it comes with this vehicle) for best receiving performance. Never cut the receiver antenna, otherwise it could lose control of the vehicle.

## Practice Required:

Beginners should start slowly. Keep practicing until you feel comfortable with steering, throttle, and brakes. Once you feel comfortable driving the vehicle try a different terrain and speed until you have mastered the basics.

Once you have learned the basics, try different patterns and tracks to improve your skills.

Add a friend for a race or try to beat your best times!



## 2.4GHz Transmitter Introduction:



- 1) Steering Wheel
- 2) Trigger
- 3) Steering Trim
- 4) Speed Selection
- 5) Steering Direction Reverse Switch
- 6) Power Indicator
- 7) Power ON/OFF
- 8) AUX. Button  
(This button is disabled for this car)



### Brushed ESC/Receiver:

#### Motor Plug Slot

Switch ON/OFF: Press and hold for 2-3 seconds

Slot 1(LED Slot): for the headlight LED

Slot 2 : for the optional electronic cooling fan (if supplied but it is not in use for this vehicle.)

#### Servo Plug Slot (3-PIN)

antenna

**Always straighten the antenna for the best performance.**



Slide and remove the battery cover from the transmitter, install two AA size batteries (1.5V, each), and replace the battery cover. Do not reverse the polarities when installing. Always use batteries of same brand and remove batteries when not in use. Make sure battery power is sufficient before use.

**Please replace the batteries for the transmitter if the transmitter LED blinks slowly.**



## Starting Driving:

### 1) Switch on the Transmitter:

Slide the Power Switch to "ON" position. Make sure the transmitter has enough battery power. Please replace with the new batteries for transmitter if the LED on transmitter blinks slowly. **Do NOT move the trigger and the steering wheel while the transmitter is waiting for binding.**



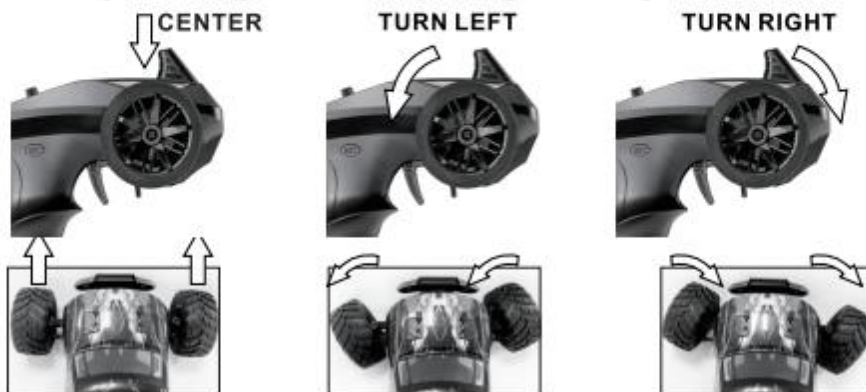
### 2) Switch on the ESC/Receiver:

Press and hold the Power Switch on ESC/Receiver for 2-3 seconds to turn on the car. It will take a few seconds before LEDs (on Transmitter and the ESC/Receiver) stop blinking and become solid on, which indicates that the car is bound with the transmitter. Binding operation may fail with low battery power. Please stop and charge the battery pack once the car jerks, cogs, or moves slowly. Under the circumstance of flat battery power, the car may have steering but not throttle. In case the car runs harshly or noisily, stop to check if there is something clogged in the drive train.



Press and hold for 2-3 seconds to switch on

### 3) Checking the steering performance by turning the steering wheel:



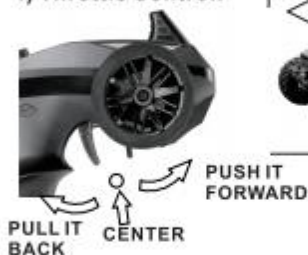
A) With the steering wheel centered, the vehicle runs in a straight line.

Slight adjustment by flipping the steering wheel is occasionally needed. It largely depends on the terrains that you drive.

B) Turn the steering wheel to the left, and the car turns left.

C) Turn the steering wheel to the right, and the car turns right.

### 4) Throttle Control:



Pull the trigger to accelerate, release it to slow the speed, and push to brake. Pull it to the Center Position and push it again to go reverse.

#### 5) Steering Trim Knob:



STEERING TRIM



It is used to set the steering neutral point on front wheels. If the front wheels on the vehicle veer in one direction while the steering wheel is centered, turn this knob in the opposite direction until the vehicle drives straight.

#### 6) Speed Switch Knob:



SPEED SWITCH



The Speed Switch is actually the throttle limiter. Turning down the knob all the way will reduce the maximum speed down to 40% of maximum speed. Turning up the knob will increase max speed up to 100%. It is advisable to operate the vehicle on the slower setting until you have had enough practice before operating at higher speeds.

#### 7) Steering Direction Reverse Switch:



STEERING REVERSE

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

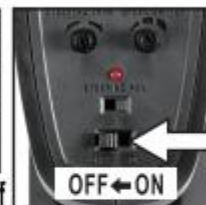
If the vehicle turns left when you steer right, flip "Steering Reverse" switch.

## Stopping Driving:

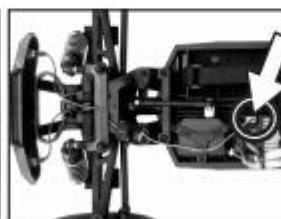
- 1) Press and hold the POWER switch for 2-3 seconds on vehicle to switch off the power.
- 2) Switch the Power switch on transmitter to OFF position to switch off the transmitter.
- 3) Disconnect and remove the battery pack from vehicle if not in use.



Press and hold for 2-3 seconds to switch off



## Headlight Installation:



The headlight LED is gifted as an optional part in the box.

- 1) Insert the lights into the slots on the back of the front bumper as shown in the photo.
- 2) Lay and secure the wires on the chassis as shown in the photo.
- 3) Insert the plug into the LED slot as shown in the photo.

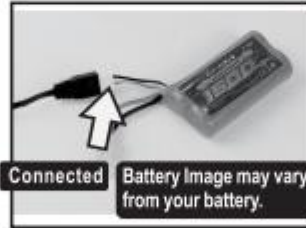
## Charging The Battery Pack:

Use **ONLY** the specified charger (provided in the box) to charge the battery pack.

**Note:** The balance USB charger is provided in the box.

### ⚠ WARNING!

- Do not charge the battery pack unattended.
- Do not use damaged and/or leaky batteries or a damaged charger.
- Children are not allowed to charge the battery without being closely supervised by adults.



**Red LED (Power LED)** is solid on as long as the charger is plugged on. (Even when no battery is load).

During charging, **Red LED** remains solid on, and **Green LED (Charging LED)** flashes slowly.

**Green LED (Charging LED)** becomes solid on after the battery pack has been fully charged.

**Alarm Indication :** **Red LED (Power LED)** flashes rapidly which means the battery pack is damaged or over-discharged, which is not able to take to charge. If it is the case, please replace with the new battery pack.

#### Charging Duration:

It will take 4.5-5 hours to charge before one Li-ion 7.4V, 1500mAh or one Li-Po 7.4V, 1600mAh is fully charged.

Tip: Smart phone AC POWER adaptors (5V,2A) can be applied to reduce charging period.



Malfunction: RED LED flashes rapidly.



#### Safety Precautions:

- Always leave a dry, clean and safe place for charging.
- Do not apply this USB cable to NON-rechargeable battery packs.
- Do not leave unattended whilst charging.
- Do not use a wet USB cable. Do not expose it to any source of heat and humidity.
- Kids are not allowed charge unless they are closely supervised by adults.
- Keep out of children's reach when charging.



## Maintenance:

**We strongly recommend that you check and maintain the vehicle after use. Please read and understand the list below which will facilitate you.**

- Disconnect and remove the batteries from the car and the radio controller when not in use.
- Do not leave the rechargeable battery pack uncharged or fully charged for a long time.
- Check if there is any obvious damage after each use.
- If the vehicle runs noisily check to see if there is any broken or slipped gears and check if there is a clogged drive train.
- Check if the wheels are well tightened after use.
- Check if there are any loose screws in the chassis.
- Check if there are not frayed, damaged, loosened wires, or connectors.
- Check if the steering servo is in good order. It may wear out over time and require replacement.
- Check if there are any objects getting twisted in the drive train. Replace them if necessary.
- Check the motor and motor wires after use. Never attempt to re-assemble the motor.
- Clean the car body and chassis with a soft lint-free cloth.
- Store the vehicle in a clean, cool, and dry place out of children's reach.

## Troubleshooting:

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

- 1) Check to ensure that radio controller and car are switched on.
- 2) Check if there are damaged parts/wires/connectors, repair or replace if necessary.
- 3) Car battery is flat. Charge the battery pack.

### **B.The vehicle runs slowly:**

- 1) Car battery is flat. Charge the battery pack.
- 2) Check if the vehicle is properly geared and no dirty or stripped gears are found. Make sure there is a reliable gear mesh for motor pinion and the spur gear.
- 3) Check if there is something stopping 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 if needed.

### **D. It steers, but throttle is uncontrollable:**

- 1) Check if there are damaged parts in the overall drive train.
- 2) Check the battery power both for radio controller and the car.

### **E. The vehicle runs noisily:**

- 1) Check gear mesh between 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 overall drive train.

### **F. The vehicle is found one direction's steering travel is not same to the other.**

Please tune the Steering Trim until Steering Center Point is fixed.

### **G. Not able to charge the batteries:**

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

## SPARE PART LIST-1



















90101	90102	90103	90104
			
Chassis	Front Bumper/Brace /Rear Bumper	Steering Links /Servo Link	Front/Rear Shock Tower/Body Post
90105	90106	90107	90108
			
Steering Hubs/Rear Hubs	Steering Post/Steering Ackerman Plate+Servo Mount	Front Universal Shafts Rear Drive Shafts /Wheel Shafts	Metal Gear Diff. Complete w/Plastic Cups (Front or Rear)
90109	90110	90111	90112
			
Metal Spur Gear+Metal Drive Gears	Front/Rear Diff. Box Housing	Motor Mount/Front Steering Plate	Shock Absorbers (Spring Coil Type)
90113	90114	90115	90116
			
Suspension Arms (Full Set)	Servo Saver Assembly	Wheels Complete	Center Drive Shaft
90117	90118	90119	90120
 4P ST3*28mm	 4P φ3*47mm	 4P	 2P φ3*32mm
Front&Rear Upper Suspension Arm Hinge Pins	Front/Rear Lower Suspension Arm Inside Hinge Pins	Rear Lower Suspension Arm Outside Hinge Pins	Steering Post Pins




## SPARE PART LIST-2

<b>90121</b>  <b>12P</b> Steering Ball Stud.	<b>90122</b>  <b>8P</b> Ball Stud.	<b>90123</b>  <b>8P</b> Balls (φ 5.8)	<b>H013</b>  <b>12P</b> Ball Stud.
<b>793127</b>  <b>8P</b> Ball Bearings (φ7.93*12.7*3.95mm)	<b>635953</b>  <b>8P</b> Ball Bearings (φ6.35*9.53*3.17mm)	<b>H022</b>  <b>8P</b> Wheel Hex. Pin (2*10mm)	<b>90124</b>  Motor Heatsink
<b>90125</b>  390 Motor	<b>90126</b>  3-Wire Servo	<b>90127</b>  ESC/Receiver with 3-pin Servo Plug Slot	<b>90128</b>  Motor Pinion +Set Screw
<b>90129</b>  Li-Ion Battery 7.4V, 1500mAh	<b>T2119</b>  Soft Pack Li-PO Battery 7.4V, 1600mAh	<b>90130</b>  Headlight LED	<b>90131</b>  <b>4P</b> Wheel Lock Bolts (stainless steel)
<b>M16050</b>  Battery Binding Strap	<b>P010</b>  Zip Ties (8P)	<b>H166</b>  Body Clips (2 pairs)	<b>T002</b>  Small Cross Wrench

## SPARE PART LIST-3

<b>12010</b>	<b>90132BM01</b>	<b>18859E-E001</b>	
			
Wheel Hex.	Truck Body	USB Charger	
<b>S016</b>	<b>S018</b>	<b>S029</b>	<b>S051</b>
 Set Screws M3*3	 Pan Head Self Tapping Screws PBHO2.6*8mm	 Pan Head Self Tapping Screws PBHO2.6*10mm	 Pan Head Self Tapping Screws PBHO2.3*6mm
<b>S061</b>	<b>S085</b>	<b>S088</b>	<b>S101</b>
 Countersunk Self Tapping Screws KBHO2.6*6mm	 Pan Head Self Tapping Screws PBHO3*15mm	 Countersunk Self Tapping Screws KBHO2.6*12mm	 Pan Head Screws 2.5*6mm
<b>S103</b>	<b>S161</b>	<b>S162</b>	<b>S201</b>
 Set Screws M2.5*2.5	 Pan Head Self Tapping Screws PBHO2.6*12mm	 Countersunk Self Tapping Screws KBHO2.6*18mm	 Pan Head Self Tapping Screws PBHO2.6*25mm
<b>S202</b>	<b>S226</b>	<b>S227</b>	
 Countersunk Self Tapping Screws KBHO2*12mm	 Countersunk Self Tapping Screws KBHO2.3*12mm	 Flange Head Self Tapping Screw 2.6*12mm	

## SPARE PART LIST-4

<b>90201</b> <b>upgraded part</b>  Aluminum Capped Oil Fill Shocks (Fr. or Rr.)	<b>90202</b> <b>upgraded part</b>  Steel Machine Diff. Complete w/Metal Cups	<b>90203</b> <b>upgraded part</b>  Steel Machine Spur Gear & Drive Pinions	<b>90204</b> <b>upgraded part</b>  Metal Outdrive Cups
<b>90205</b> <b>upgraded part</b>  Front Universal Drive Shafts(Metal)	<b>90206</b> <b>upgraded part</b>  Rear Drive Shafts(Metal)	<b>90207</b> <b>upgraded part</b>  Rear Wheel Shafts(Metal)	<b>90208</b> <b>upgraded part</b>  Brushless ESC/Receiver
<b>90209</b> <b>upgraded part</b>  Brushless Motor			



Note: The images may vary from the product you received.

## EXPLODED VIEW-1

### Diff. Assembly

Lubricate the gears before assembled.

Diff. Assembly Complete  
Front & Rear

Steering Assembly

11

### Diff. Assembly

793127 -

793127

Lubricate the gears before assembled.

90108

**Diff. Assembly Complete**  
**Front & Rear**

S202

—90120

90106

-90106

S085

90121

—90106

90121

.....

90106

90121

—90103

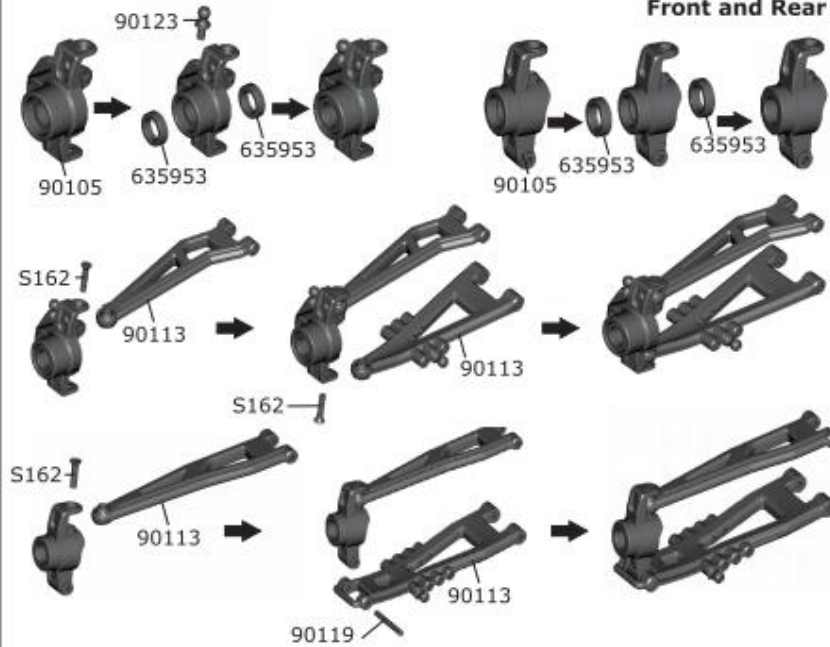
## Steering Assembly

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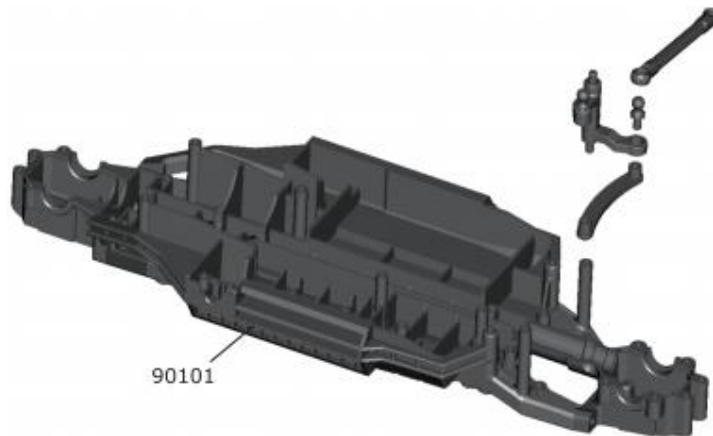
## EXPLODED VIEW-2

### Suspension Assembly

#### Front and Rear



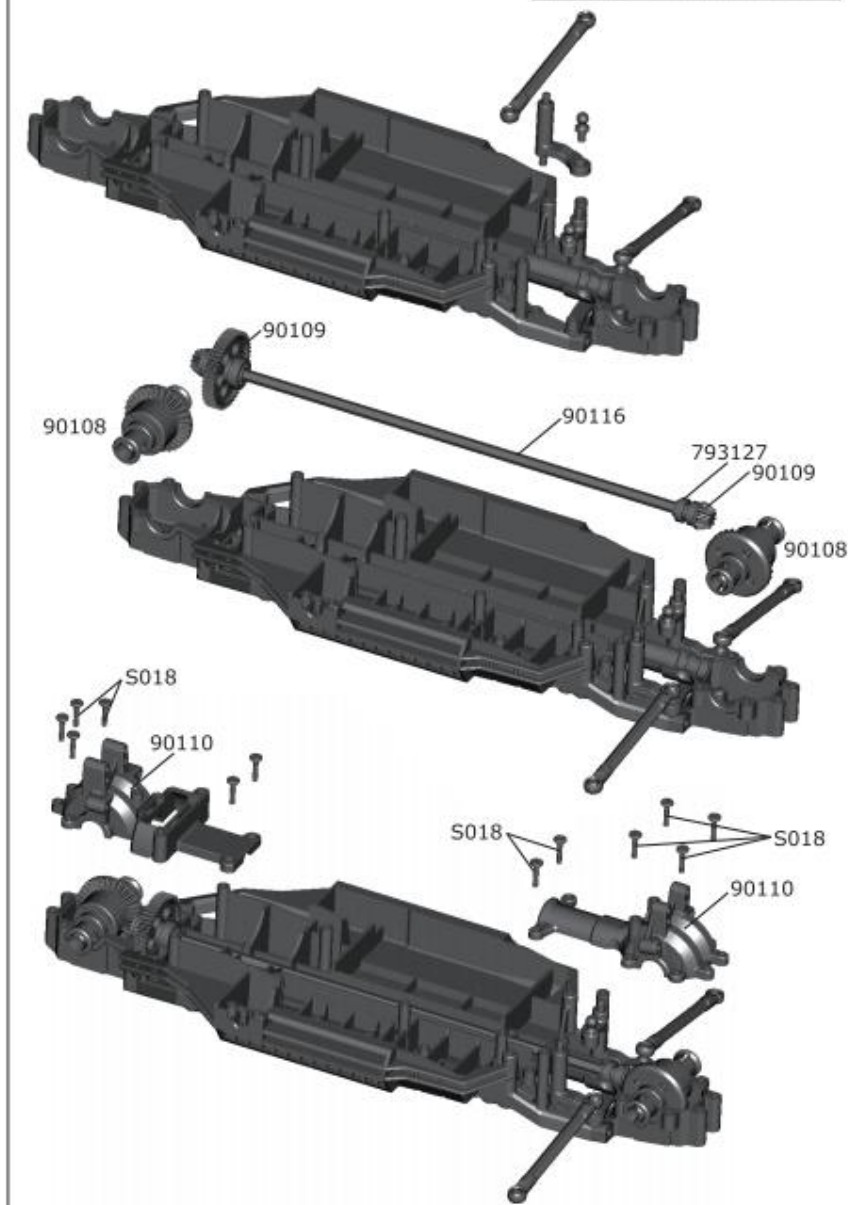
### Full Assembly View-1



Note: The images may vary from the product you received.

### EXPLODED VIEW-3

#### Full Assembly View-2

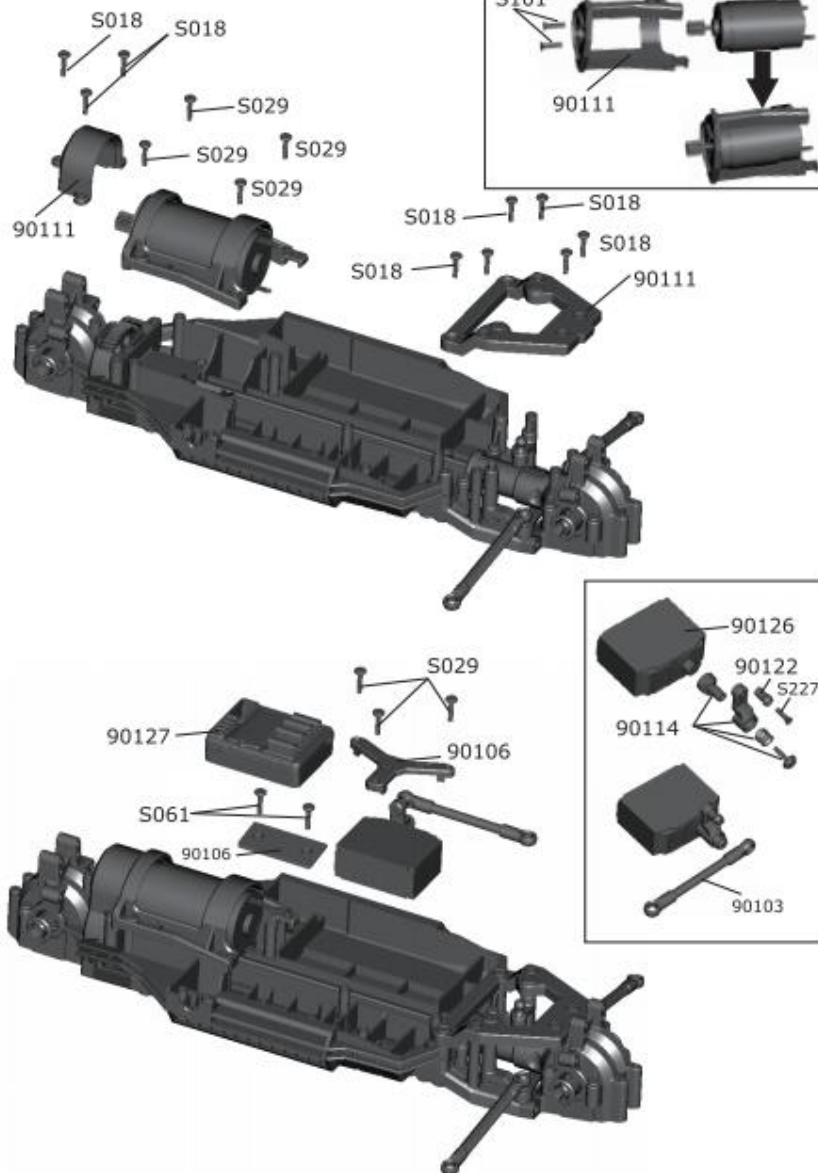




Note: The images may vary from the product you received.

## EXPLODED VIEW-4

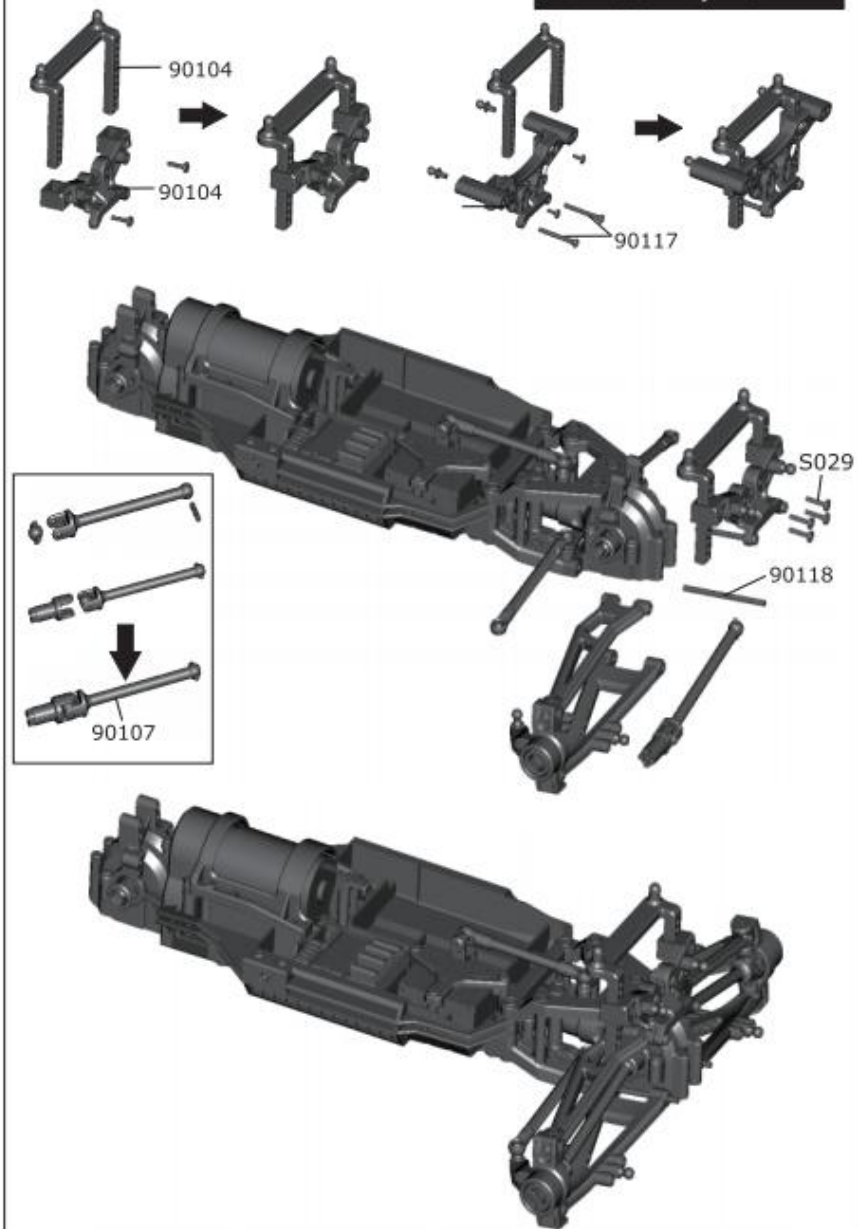
### Full Assembly View-3



Note: The images may vary from the product you received.

## EXPLODED VIEW-5

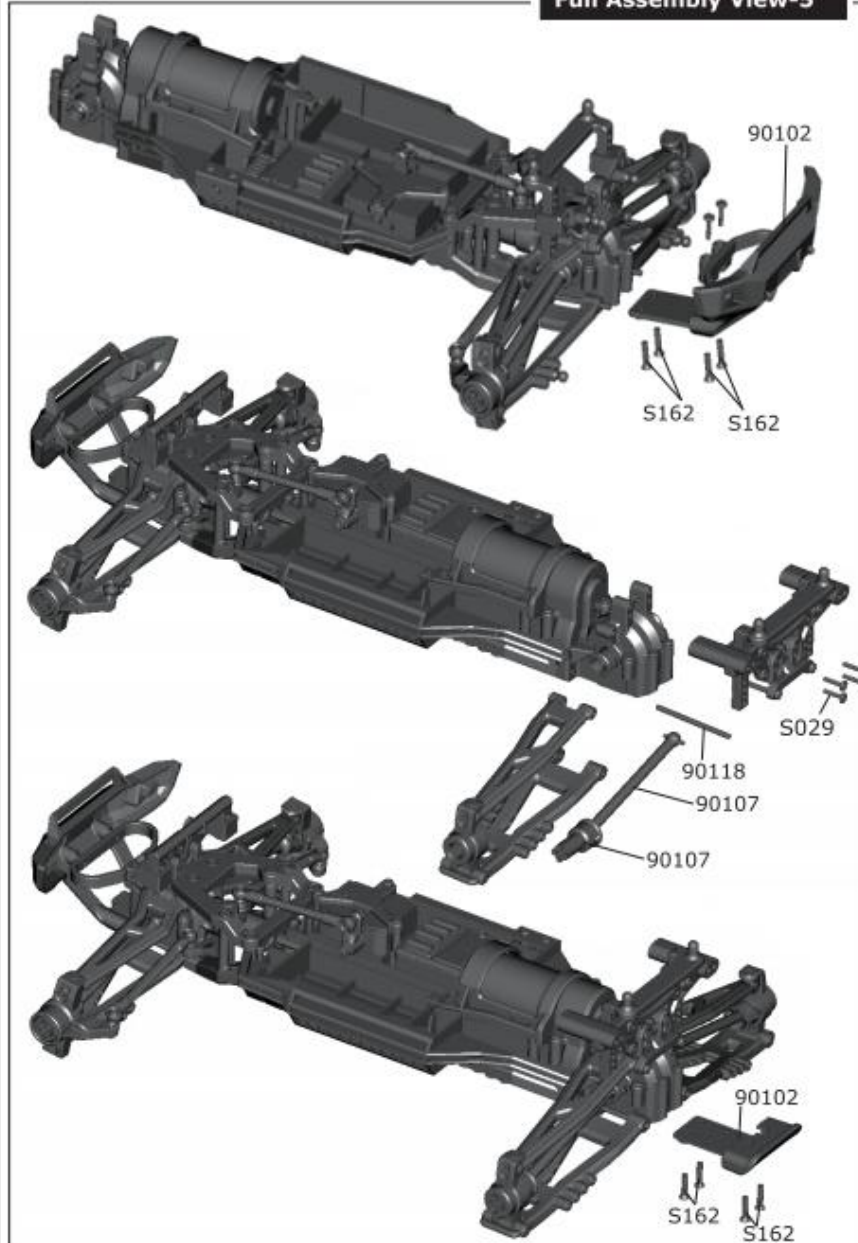
### Full Assembly View-4



Note: The images may vary from the product you received.

## EXPLODED VIEW-6

### Full Assembly View-5

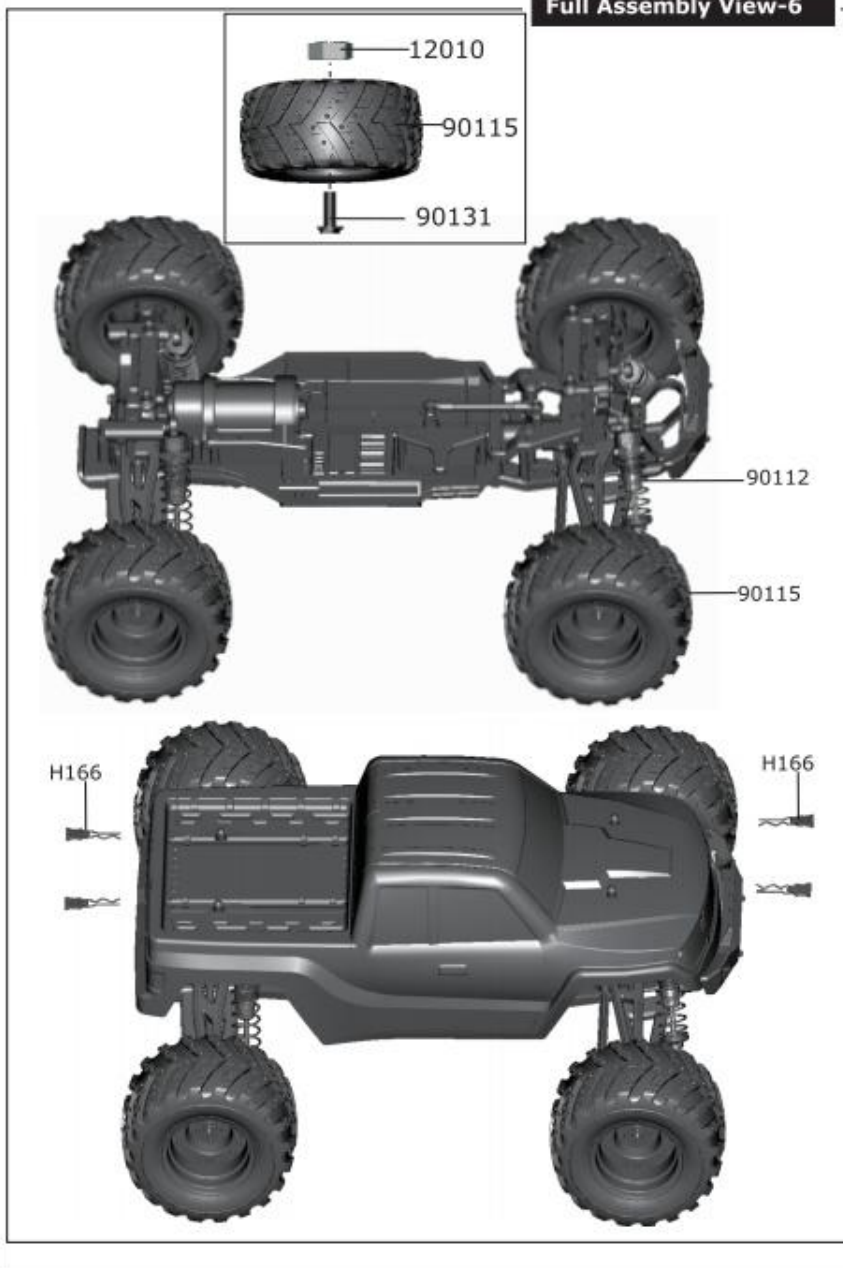




Note: The images may vary from the product you received.

## EXPLODED VIEW-7

### Full Assembly View-6



Produce name: Scale Hobby Cars

Model: 18859

Manufacturer: Shantou Haiboxing Technology&Education Model Co., Ltd.

Address: Guangyi Road, Chenghai District, Shantou, Guangdong, China

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.

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.

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

## Four Wheel Drive Electric Power Race Truck

Thank you for purchasing our product.

If you are not familiar with radio controlled model, we STRONGLY recommend that you seek the experts for reliable advice. Wish you safe enjoyment.

**14+**  
**YEARS**



MADE IN CHINA

This product MUST be handled with due care. We understand high speed is our long pursuit. However, safety is also the regulation to observe.

Please operate your car in a spacious area and do not operate it where people are congested. Do not attempt to assemble or disassemble 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. Contrived modification will also void the warranty.