

**1/16TH SCALE 4WD ELECTRIC POWER RACE TRUCK**

# BLACKZON SLAYER

## INSTRUCTION MANUAL



**14+**  
**YEARS**

LENGTH	WIDTH	HEIGHT	WHEELBASE	WHEEL DIA.	WHEEL WIDTH	MOTOR	GEAR RATIO
270mm	215mm	130mm	175mm	78mm	41mm	RC 390	1:10.71

This data is subject to change without prior notification.

- 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.



## Cautions

- 1) Please read and understand the manual before using, assembling and/or disassembling.
- 2) This product is not a toy but an authentic model, which is not intended for operators under 14 years of age.
- 3) Children less than aged 14 must not operate this product unless they are closely supervised by an adult.
- 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 by low battery power. Fully charge the battery pack before use. Stop running immediately the slow running speed is observed. Failure to do such will drain the battery pack.

## 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 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. 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 handle 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. Regular check on the transmitter (radio controller) power is very important. Remove the batteries from the transmitter (radio controller) when not in use. Replace with the fresh batteries if necessary. Do NEVER run this vehicle by low power from transmitter.
10. When this vehicle becomes stuck, do NOT force on throttle. Failure to do so will cause an 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 wirings and plugs are loose.
12. Any malfunction incurred by contrived upgrading and modification will void warranty.
13. Be careful not to touch any moving parts when servicing this vehicle.
14. To prevent excessive r.p.m. from damaging the motor, and/or the drivetrain components, we suggest reducing the throttle while in the air during jumps.
15. Never attempt to re-assemble motor, ESC, and receiver as these have been precisely calibrated at factory.
16. Always apply the factory optional/tooling parts to this vehicle.
17. 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.
18. To run this vehicle, turn on the transmitter (radio controller) first and then the receiver.
19. To stop running this vehicle, turn off the receiver first, and then the transmitter.
20. Erect the receiver antenna (if it comes with this vehicle) for best receiving performance. Never cut the receiver antenna (if it comes with this vehicle). Otherwise, it could lose control of the vehicle.

## Practice Required

Please run the vehicle in a slow speed when you are not a skilled operator. Once you become conformable driving the vehicle, perform driving practice on the tracks. Keep practicing until you feel comfortable with the steering, throttle and brake at low speeds. Once you are feeling comfortable, try operating the vehicle on another track. When you have mastered the basics, you will be able to drive the vehicle at higher speeds in a more controlled fashion.

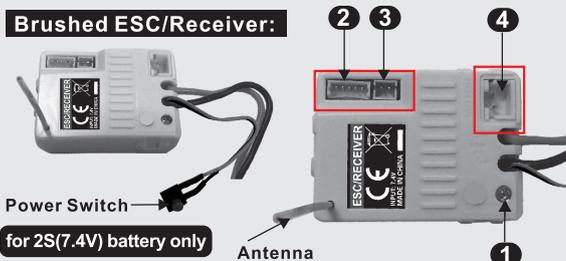


## 2.4GHz Transmitter Introduction



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

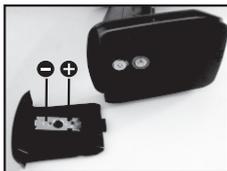
### Brushed ESC/Receiver:



**Power Switch:**  
Press and hold for 2-3 seconds to switch on or off.

- 1) Power Indicator
- 2) Servo Slot (5-pin)  
(for 5-wire Servo)
- 3) Aux. Slot (for LED light if it contains LED)
- 4) Motor Plug Slot

**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 revert the polarities when installation. Always use batteries of same brand, and remove batteries when not in use. Make sure battery power is sufficient before use.

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

# Starting Running

## 1) Switch on the Transmitter:

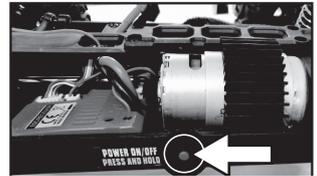
Slide the Power Switch to "ON" position. Make sure the transmitter is of enough battery power. Please replace with the new batteries for transmitter if the LED on transmitter blinks slowly.



## 2) Switch on the ESC/Receiver:

Press and hold the ESC/Receiver Power Switch for 2-3 seconds to turn on the car. It will be for 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 in low battery power. Please stop and charge the battery pack once the car jerks, jogs or moves so slowly. Under the circumstance of flat battery power, the car may have steering but not the throttling. In case the car runs harshly 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:



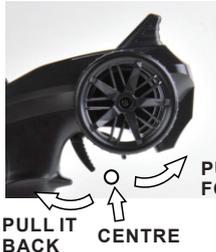
A) With the steering wheel centered, the vehicle runs in a straight line.

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

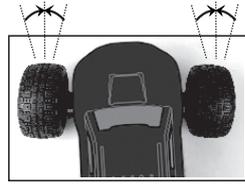
B) Turn the steering wheel to the left, and the car turns left.

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

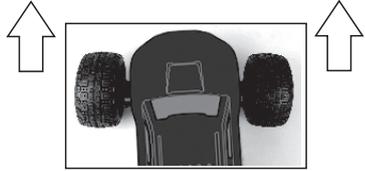
## 4) Throttle Control:



Pull the trigger to accelerate, release it to slow the speed, and push to brake. Pull it to the Centre 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 normal speed. Turning up the knob will increase max speed up to 100%.

**7) Steering 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 Running

**1) Switch off the ESC/Receiver:**

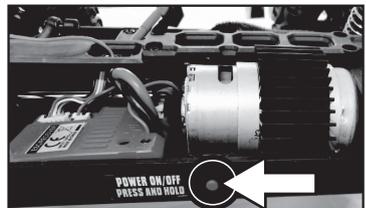
Press and hold the Power Switch for 2-3 seconds until LED on ESC/Receiver goes off.

**2) Switch off the Transmitter:**

Slide Power Switch to "OFF" position

3) Disconnect and remove the battery pack from the car when not in use.  
Fully charge the battery pack before storing it.

4) Make sure there are no damage parts before storing it.



**Press and hold for 2-3 seconds to switch off**



# Charging 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 the damaged and leaky batteries and charger.
- Children are not allowed to charge the battery without closely supervised by adults.

## **Precautions:**

- Be sure to always disconnect the battery pack and remove it from the vehicle when not in use.
- Please fully charge the battery before each use.
- Do not leave the battery pack uncharged for long periods of time.
- Do not completely drain the battery while running the vehicle. Do not charge the battery under any wet or damp conditions. Only charge in dry conditions.



During charging, the red LED is on solid, which monitors the charging process.

The red LED will go off after the battery pack has been fully charged.

**Charging Duration: Li-ion Battery Pack 7.4V, 800 mAh (Approx. 2-2.5 hours),**

**Li-Po Battery Pack 7.4V, 1000mAh (Approx. 2.5 hours)**

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

**The red LED flashes, which indicates:**

- 1) USB charging cable is connected with the battery pack but not being plugged on the charging slot.
- 2) Non-rechargeable battery pack is connected
- 3) Not able to charge as the battery pack is over-discharged.
- 4) USB cable is in an unstable connection.

## **BATTERY SAFETY INFORMATION**

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 enable 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

## 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 for a long time.
- Check if there is any obvious damage after each use.
- If the vehicle runs noisily, check if there is any broken or slipped gear and pinion, 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 and connectors.
- Check if the steering servo is in good order. It may wear out over time and require replacement.
- Check if there are no objects getting twisted in the drive train. Clean 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, 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 if possible.

### **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.

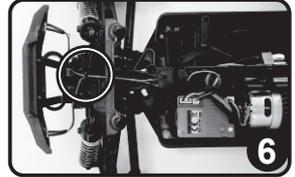
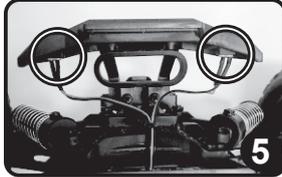
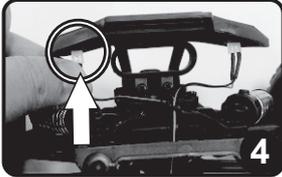
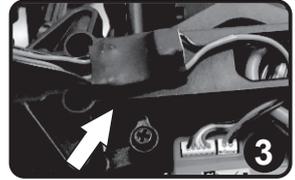
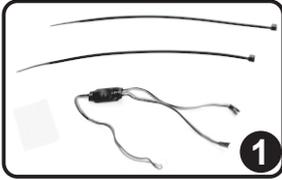
### **F. The vehicle is found one direction's steering travel is not same to the other.**

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.

# Headlight Installation



- 1) The headlight, which is provided as a gift in the box, is not installed on the car.
- 2) Please take out the headlight, the zip ties, and the adhesive tape from the box.  
(See Photo 1)
- 3) Please plug the headlight plug into the slot on the ESC/Receiver. (See Photo 2).  
Note: Do not force while plugging or unplugging.
- 4) Please apply the adhesive tape to the headlight board and stick it on the upper deck as shown in Photo 3.
- 5) Gently insert the headlights into the slots on the back of the front bumper. Make sure they are in place. (See Photo 4 and Photo 5)
- 6) Please keep the wires in order and bind them up with the aid of the zip ties. (See Photo 6)



## Cautions

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.

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.

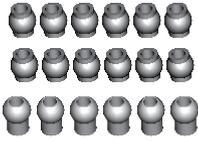
This product is fully assembled at factory. Malfunction and damage that result from misuse and/or abuse will void the warranty. Contrived modification will also void the warranty.

## PART LIST-1

540001	540002	540003	540004
			
Chassis	Front Gear Box Top Housing	Rear Gear Box Top Housing	Front Bumper Assembly
540005	540006	540007	540008
			
Rear Bumper Assembly	Front Lower Suspension Arms(Left/Right)	Front Upper Suspension Arms(Left/Right)	Rear Lower Suspension Arms(Left/Right)
540009	540010	540011	540012
			
Rear Upper Links+ Steering links+Servo Link	Shock Towers(Front and Rear)	Body Posts	Shock Absorbers(2P)
540013	540014	540015	540016
			
Steering Hubs	Rear Hubs	Front/Rear Drive Shafts	Diff. Outdrive Cups
540017	540018	540019	540020
			
Steering Bushes+ Ackerman Plate	Diff. Complete (Front/rear)	Servo Top Plate+ Motor Guard	Spur Gear+Drive Pinions

For continuous improvements , the images may vary from your received model.

## PART LIST-2

540021	540022	540023	540024
 <p>Servo Saver Assembly</p>	 <p>Centre Drive Shaft</p>	 <p>Front Upper Suspension Hinge Bolts</p>	 <p>Front/Rear Lower Suspension Hinge Pins</p>
540025	540026	540027	540028
 <p>Rear Hub Pins (4P)</p>	 <p>Wheel Hex. Pins (8P)</p>	 <p>Diff. Assembly</p>	 <p>Steering Posts (4P)</p>
540029	540030	540031	540032
 <p>Diff. Posts+Pins</p>	 <p>Steering Pivot Balls (8P)</p>	 <p>Plastic Pivot Balls Complete</p>	 <p>Electronic Speed Control/Receiver</p>
540033	540034	540035	540036
 <p>Servo (5-wire)</p>	 <p>Motor 390</p>	 <p>Motor Pinions(14T) +Set Screw</p>	 <p>Motor Heatsink</p>
540037	540038	540039	540040
 <p>Battery Pack(Li-ion 7.4V,800mAH), W/T-Plug</p>	 <p>Wheels Complete</p>	 <p>Truck Body (black/green)</p>	 <p>Battery Binding Strap</p>

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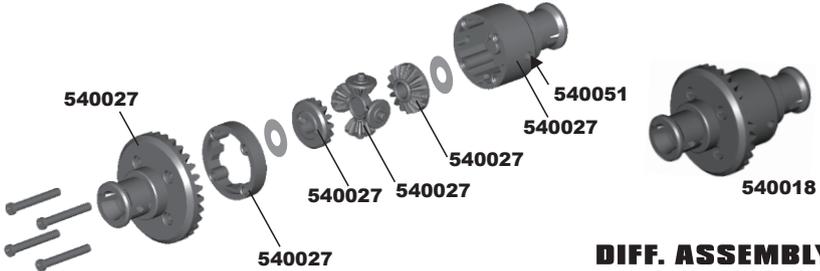
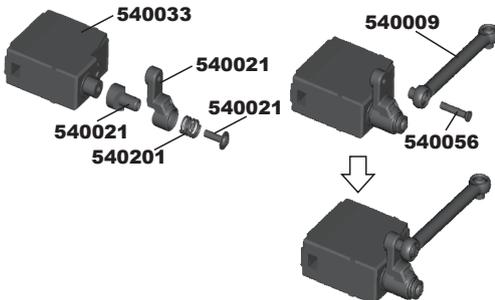
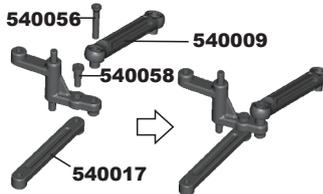
## PART LIST-3

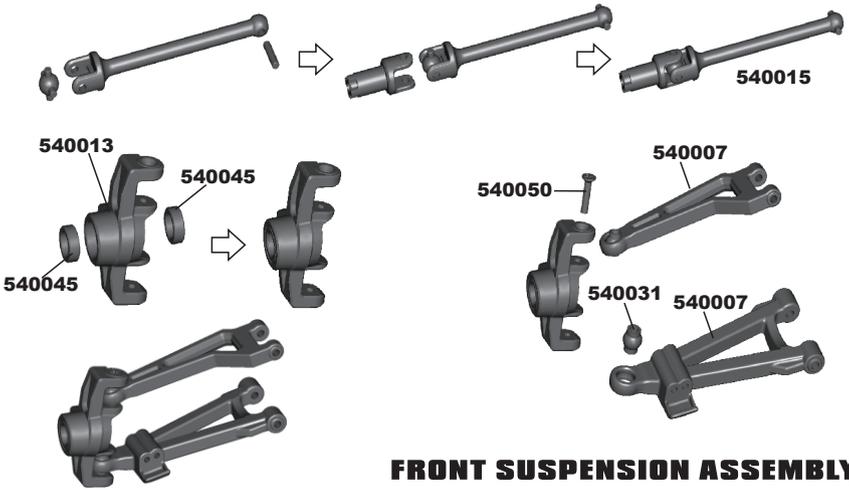
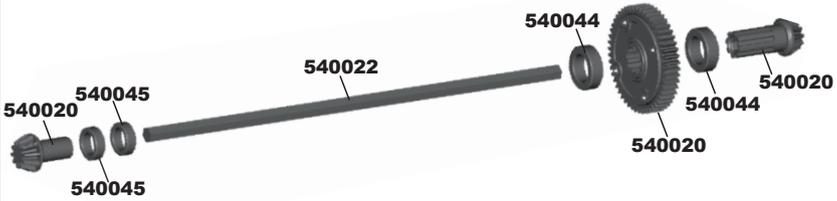
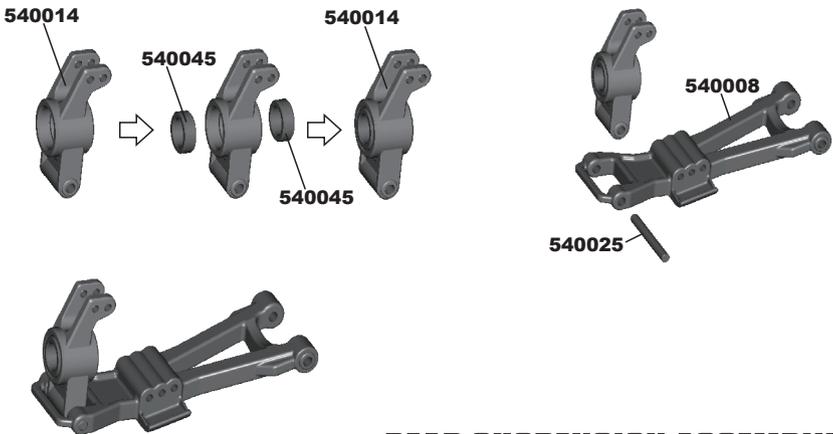
<p><b>540041</b></p>  <p>Wheel Hex.</p>	<p><b>540043</b></p>  <p>USB charger</p>	<p><b>540044</b></p> <p><b>8P</b></p>  <p>Ball Bearings (φ7.93*12.7*3.95mm)</p>	<p><b>540045</b></p> <p><b>8P</b></p>  <p>Ball Bearings (φ6.35*9.53*3.17mm)</p>
<p><b>540046</b></p> <p><b>8P</b></p>  <p>Wheel Lock Blots</p>	<p><b>540047</b></p> <p><b>12P</b></p>  <p>Pan head Self Tapping Screws PBHO2*8mm</p>	<p><b>540048</b></p> <p><b>12P</b></p>  <p>Pan head Self Tapping Screws PBHO2.6*10mm</p>	<p><b>540049</b></p> <p><b>12P</b></p>  <p>Countersunk Screws KM2.5*8</p>
<p><b>540050</b></p> <p><b>12P</b></p>  <p>Countersunk Self Tapping Screws KBHO2.6*12mm</p>	<p><b>540051</b></p> <p><b>12P</b></p>  <p>Set Screw 2.5x2.5mm</p>	<p><b>540052</b></p> <p><b>12P</b></p>  <p>Countersunk Self Tapping Screws KBHO2.3*6mm</p>	<p><b>540053</b></p> <p><b>12P</b></p>  <p>Pan head Self Tapping Screws PBHO2.6*12mm</p>
<p><b>540054</b></p> <p><b>12P</b></p>  <p>Pan head Self Tapping Screws PBHO2*12mm</p>	<p><b>540055</b></p> <p><b>12P</b></p>  <p>Pan head Self Tapping Screws PBHO2.3*4mm</p>	<p><b>540056</b></p> <p><b>12P</b></p>  <p>Countersunk Self Tapping Screws KBHO2.3*12mm</p>	<p><b>540057</b></p> <p><b>12P</b></p>  <p>Flange Head Self Tapping Screws PWTWO.6*12mm</p>
<p><b>540058</b></p> <p><b>8P</b></p>  <p>Steering Hub Step Screws</p>	<p><b>540059</b></p>  <p>Body Clips (4pcs)</p>	<p><b>540060</b></p>  <p>Headlight LED</p>	<p><b>540061</b></p>  <p>2.4GHz Radio</p>

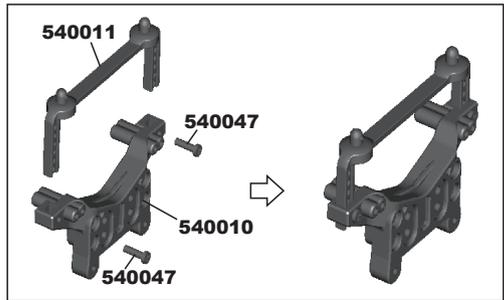
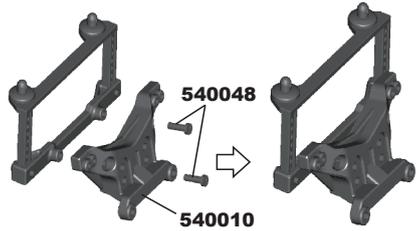
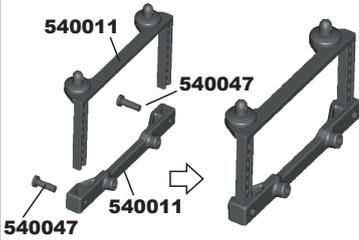
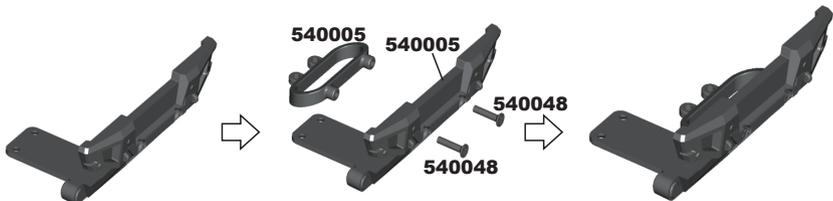
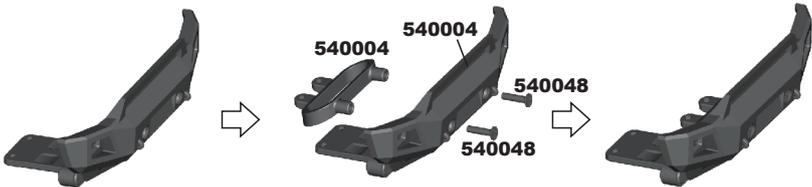
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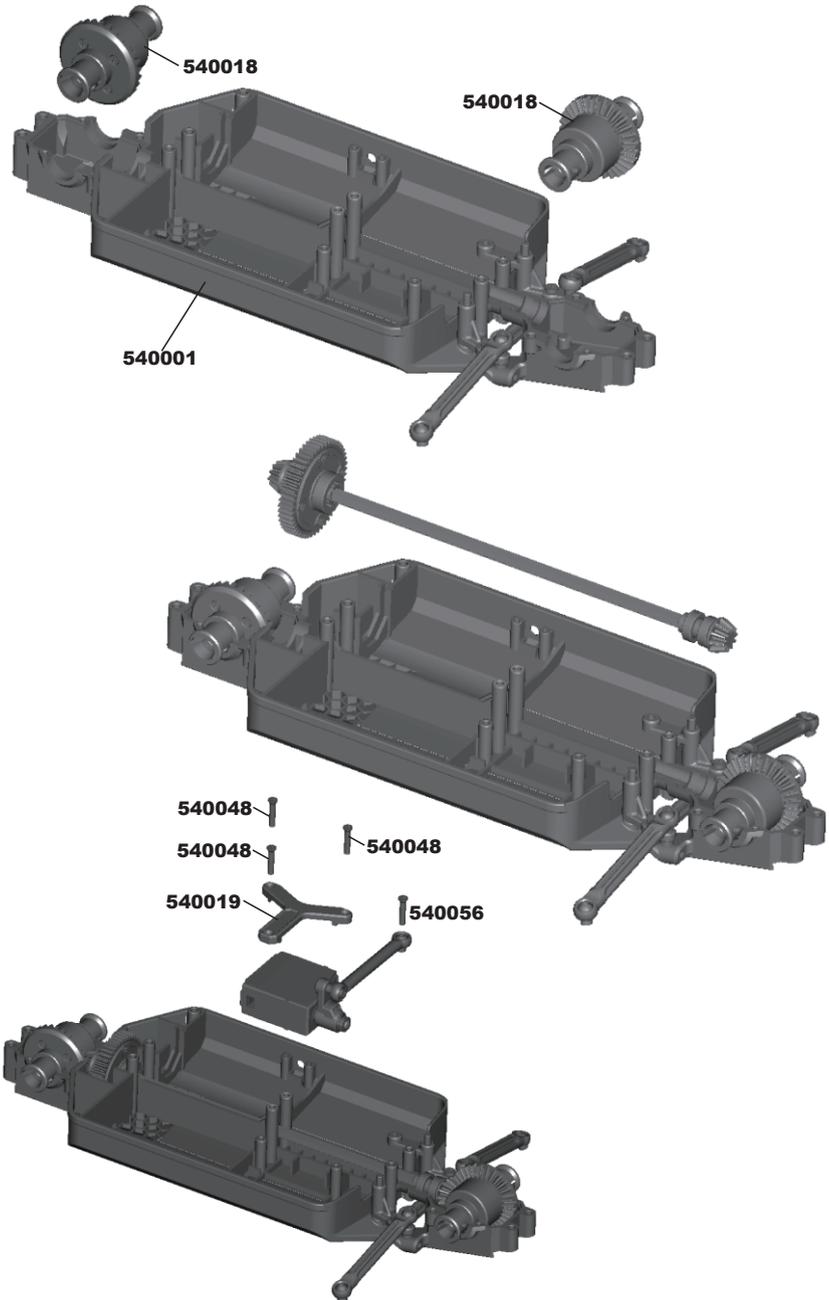
**ASSEMBLY VIEW-1****SHOCK ASSEMBLY**

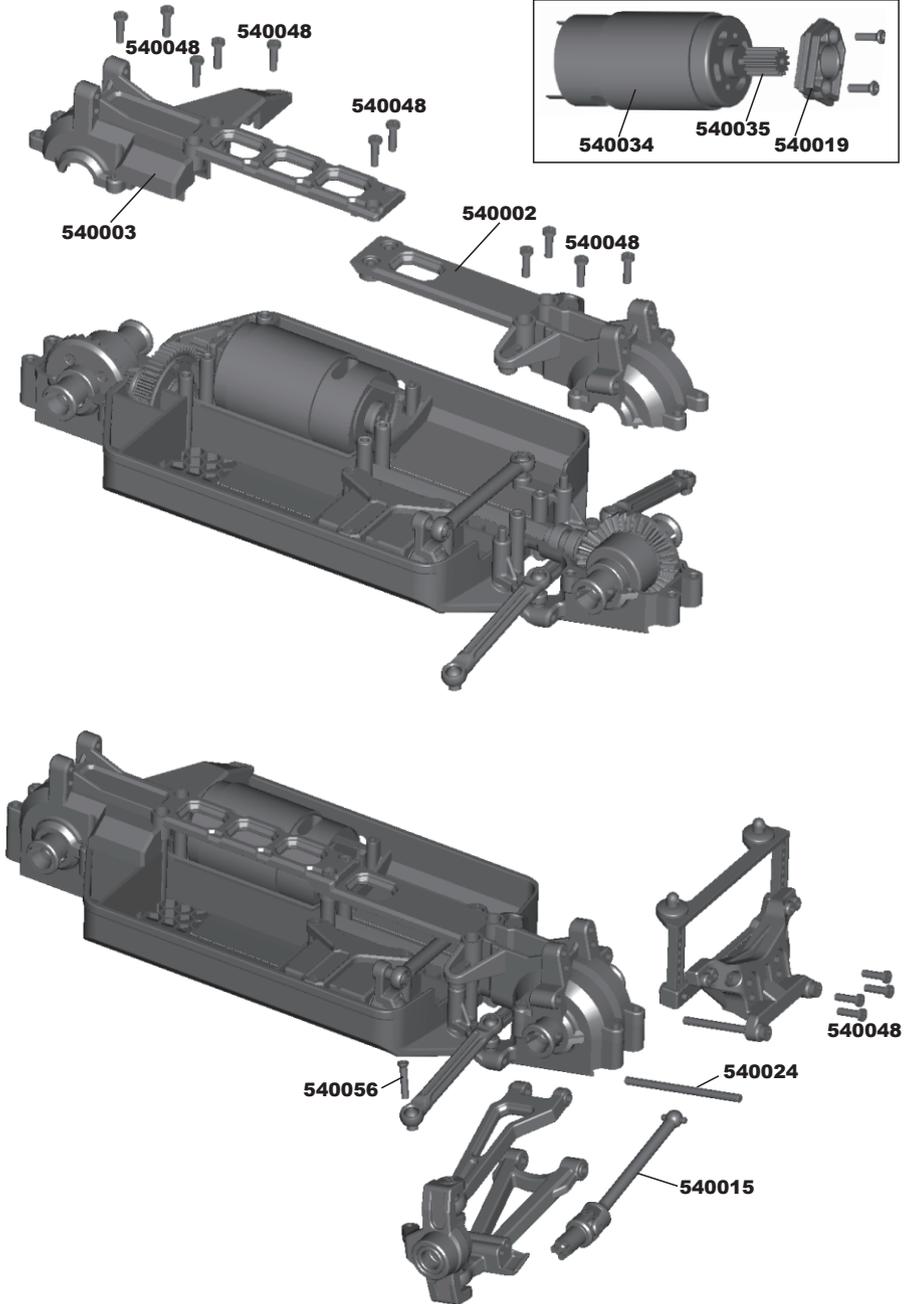
**Adjusted Ring:** Rotate this ring to adjust spring tension for desired suspension travel.

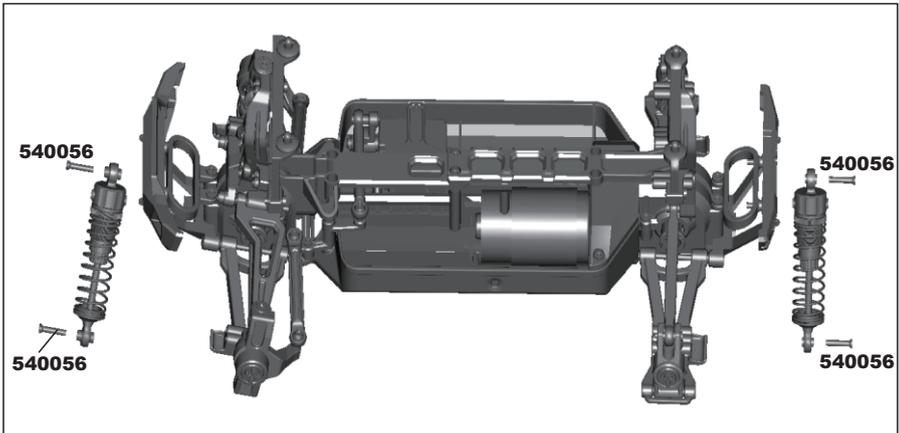
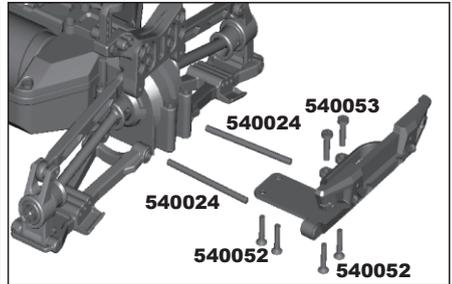
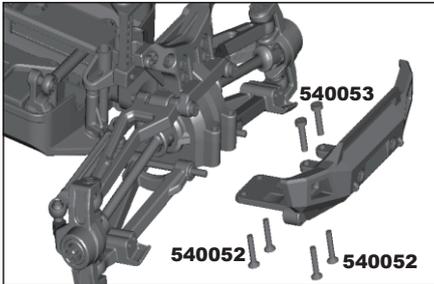
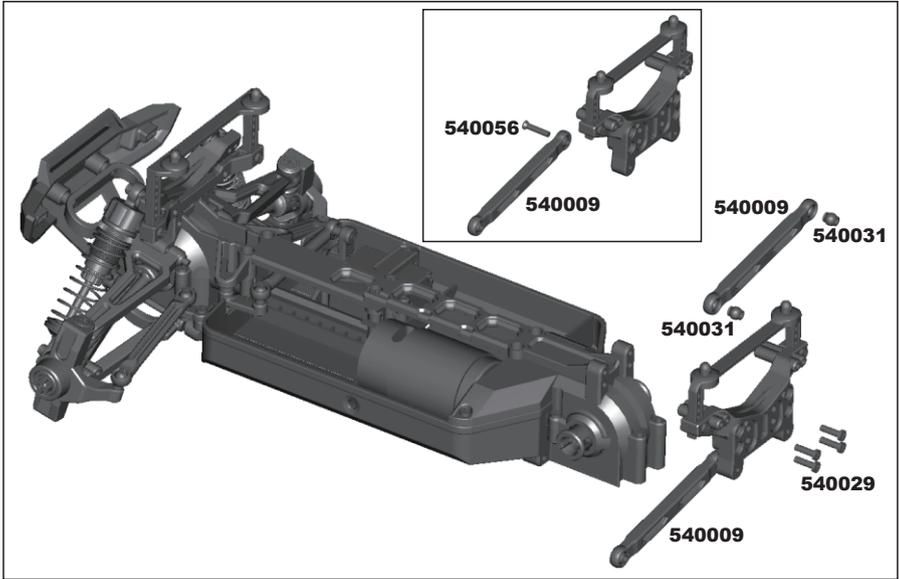
**DIFF. ASSEMBLY****STEERING ASSEMBLY**

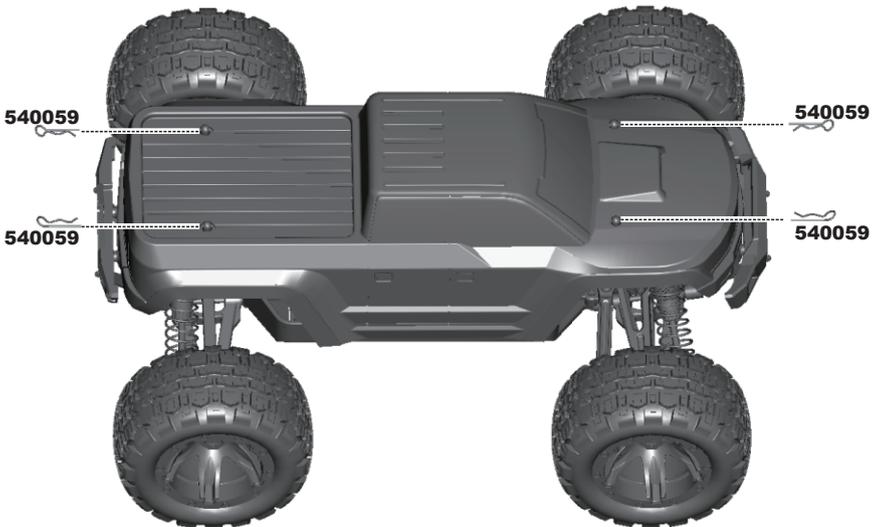
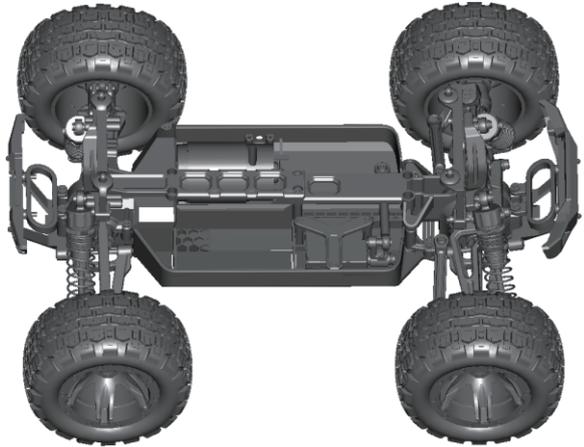
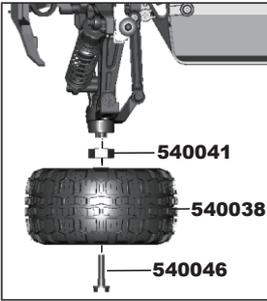
**ASSEMBLY VIEW-2****CENTER DRIVE ASSEMBLY****FRONT SUSPENSION ASSEMBLY****REAR SUSPENSION ASSEMBLY**

**ASSEMBLY VIEW-3****FRONT/REAR SHOCK TOWER  
BODY POST ASSEMBLY****BUMPER ASSEMBLY**

**ASSEMBLY VIEW-4**

**ASSEMBLY VIEW-5**

**ASSEMBLY VIEW-6**

**ASSEMBLY VIEW-7**

## 90 Day Component Guarantee

This product is covered by a 90 day component guarantee from date of purchase. If any part of the product fails as a result of faulty manufacture during this period then we will repair or replace that part at our discretion.

We do not operate a new for old guarantee once the product has been used.

Please note this product is not a toy and it is recommended that children 14 and under are supervised by an adult. It is the responsibility of the parent or guardian to ensure minors are given appropriate guidance and supervision.

If you suspect there is a problem with the product, for whatever reason, it is the user's responsibility to investigate and take steps to rectify the problem before further damage occurs.

### Not Covered By Guarantee

This is a sophisticated, high performance model and should be treated with care and respect. Every effort has been made to make this product as strong and durable as possible, however due to the nature of this product, it is still possible to break or damage parts through crashing or extreme use. Components damaged as a result of crash damage, improper use, lack of maintenance or abuse are not covered by the guarantee.

### How to Claim Against your Guarantee

For guarantee claims please first contact your supplying retailer. Do not return the product to your distributor without their prior approval. You may not need to return the product in full, only the damaged component along with a copy of your purchase receipt. In many cases it is faster and more cost effective for the user to fit the replacement part(s) to the product & therefore we reserve the right to supply parts only in these instances.

Any returned component that is inspected by your distributor and found to have an invalid guarantee claim may be subject to an inspection and handling fee before it can be returned. Any repairs required as a result of neglect or misuse will be charged before any work is carried out on the product. If you decide not to have any work carried out the distributor reserves the right to charge a handling and a shipping fee.

Please attach your proof of purchase in the manual as you may need it again in the future.

## Legal Information



Do not dispose of electrical components in household waste. Please use local waste disposal centre. Entsorgen Sie auf keinen Fall elektronische Komponenten im Hausmüll. Bitte nutzen Sie dazu örtliche Entsorgungseinrichtungen.

Ne pas jeter les composants électriques dans les ordures ménagères. Utilisez le centre d'élimination des déchets local.

No deseché los componentes eléctricos en la basura doméstica. Utilice el centro local de eliminación de residuos.



The radio equipment type in this product transmits within the frequency range 2.4 to 2.485 GHz with a maximum power of 20dBm and is in compliance with EU Directive 2014/53/EU. The full text of the Declaration of Conformity is available at <http://ce.blackzon.com/>

Die Fernsteuerung in diesem Produkt überträgt in dem Frequenzbereich 2.4 to 2.485 GHz mit einer maximalen Stärke von 20dBm und sie ist in Übereinstimmung mit der EU Richtlinie 2014/53/EU. Der volle Text und die Erklärungen zur Konformität finden Sie unter <http://ce.blackzon.com/>

Cet appareil transmet dans la gamme de fréquence de 2.4 to 2.485 GHz avec une puissance de 20dBm et est conforme à la Directive UE 2014/53 / UE. Le texte intégral de la Déclaration de conformité est disponible sur <http://ce.blackzon.com/>

El tipo de equipo de radio en este producto transmite en el rango de frecuencia de 2.4 to 2.485 GHz con una potencia máxima de 20dBm y cumple con la Directiva de la UE 2014/53/UE. El texto completo de la Declaración de conformidad está disponible en <http://ce.blackzon.com/>



### FCC Compliance:

This device transmits within the range 2.4 to 2.485 GHz and has been tested to comply with the limits for a Part 15 Class B device 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. Any change or modification to the device not expressly approved by the manufacturer may void the user's authority to operate the equipment. 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.

### Canada Compliance Statement:

This Class B digital apparatus complies with Canadian ICES-003. (Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.) This equipment complies with the FCC/IC radiation exposure limits set forth for FCC and Industry Canada portable transmitting devices operation in an uncontrolled environment. The equipment should only be used or installed at locations where there is normally at least a 20cm separation between the antenna and all persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

**1/16TH SCALE 4WD ELECTRIC POWER RACE TRUCK**

**BLACKZON**

**BLACKZON**

HPI RACING A/S

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