



# USER MANUAL

## BRUSHLESS CRAWLER

NO.:136100-PRO



ROCK CRAWLER



**WARNING:**

This product is only for 14 years old or above

### Notes:

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

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

The product conforms to technical requirements of export safety regulations.



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

MADE IN CHINA

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



# Introduction

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

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

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

## Warnings

- The product is not intended for those under 14 years of age without proper adult supervision. The product is not a toy. It is a precision machine requiring proper assembly and setup to avoid accidents and it is the responsibility of the owner to operate this product in a safe manner as it can cause serious personal injury and damage to property due to carelessness or misuse.
- Do not attempt to disassemble or modify any of the product components without the assistance of an experienced RC user.
- Only use the correct type of battery to operate. Using any wrong type of battery will damage the product and possibly make it dangerous to operate.
- The motor(s) may get hot during use. Always allow the motor 10 - 15 minutes to cool down between each operation. This will prolong the life of your product.
- Choose an appropriate operating site consisting of flat, smooth ground, and clear open field. Do not operate near buildings, high voltage cable lines, or trees to ensure safety operation. Operate in safe area only, away from other people. RC models are prone to accidents, failures, and crashes due to a variety of reasons including, lack of maintenance, user error, and radio interference. Users are responsible for their actions and damage or injury occurring during the operation.
- Do not operate in inclement weather, such as rain, wind, snow or darkness.
- The product, composed of precision electrical components, must be kept away from moisture and other contaminants. Do not allow them to get wet. Electrical damage may occur that could affect safe operation.
- You should complete a successful pre-run check of your radio equipment and the model prior to each run.
- Use replacement parts from the original manufacturer to ensure safe product operation.
- Operate this product within your ability. Do not operate under tired condition.

- After each use, always allow the battery to cool down before recharging. When charging the battery pack, do not overcharge! If batteries get hot during charging, discontinue charging immediately and disconnect the battery from the charger. Never leave battery unattended while charging. If you are unsure of how to charge this battery, please seek the advice of experienced RC users. Never let children charge the battery without adult supervision.
- Always turn on the transmitter before connecting the battery on the model. When turning off the model, always disconnect the battery first, and then turn off the transmitter. If the order is reversed, the model may become uncontrollable and cause serious damage.
- If you are in doubt about your ability to operate the model, we strongly recommend that you seek assistance from experienced RC users or join your local modeling club to gain the required knowledge and skill. As the manufacturer and distributor, we assume no liability for the use of this product.
- Before turning on your model and transmitter, please check to make sure no one else is operating under the same frequency. Frequency interference can cause your model, or other's models to crash. The guidance provided by experienced RC users will be valuable for the assembly, tuning, trimming, and actual first flight.
- Never allow batteries to run low or you might lose control of the model.
- Plastic is very susceptible to damage or deformation due to extreme heat and cold climate. Do not store the model near any source of heat such as oven or heater. Store the model indoors, in a climate-controlled, room temperature environment.
- Never shorten the receiver antenna; or this might affect the transmitting range of the radio system.
- This product is a RC hobby model, do not use for other purpose.

## Safety

Pay close attention to the following symbols and their meanings. Failure to follow these warnings could cause damage, injury or death.

 <b>Danger</b>	Not following these instructions may lead to serious injuries or death.
 <b>Warning</b>	Not following these instructions may lead to major injuries.
 <b>Attention</b>	Not following these instructions may lead to minor injuries.
 <b>Prohibited</b>	<ul style="list-style-type: none"><li>■ Do not use the product at night or in bad weather like rain or thunderstorm. It can cause erratic operation or loss of control.</li><li>■ Do not use the product when visibility is limited.</li><li>■ Do not use the product on rain or snow days. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.</li><li>■ Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:<ul style="list-style-type: none"><li>● Near any site where other radio control activity may occur</li><li>● Near power lines or communication broadcasting antennas</li><li>● Near people or roads</li><li>● On any body of water when passenger boats are present</li></ul></li><li>■ Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.</li><li>■ The 2.4GHz radio band is limited to the line of sight. Always keep your model in sight as a large object can block the RF signal and lead to loss of control.</li><li>■ Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine, motor or speed control, may be very hot and can cause serious burns.</li></ul>
 <b>Mandatory</b>	<ul style="list-style-type: none"><li>■ Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions.</li><li>■ Make sure the product is properly installed in your model. Failure to do so may result in serious injury.</li><li>■ Make sure to disconnect the receiver battery before turning on the transmitter. Failure to do so may lead to unintended battery issues or an accident.</li><li>■ Ensure that all motors operate in the correct direction. If not, adjust the direction first.</li><li>■ Make sure the model stays within the radio maximum signal range to prevent loss of control during operation.</li></ul>

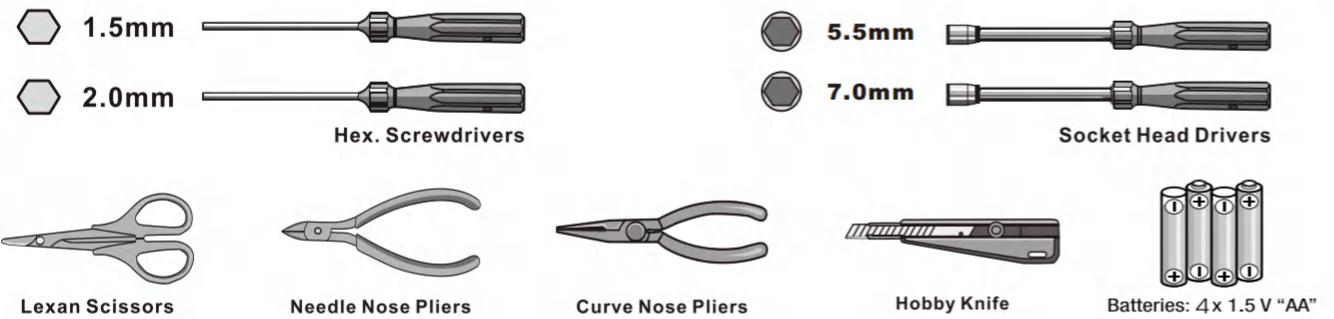
Thanks for purchasing our RC car. Since the power system of the RC model can be very dangerous, please read this manual carefully. Since we have no control over the correct use, installation, application, or maintenance of our products, we shall assume no liability for any damages, losses or costs resulting from the use of this product. Any claims arising from the operating, failure of malfunctioning etc. will be denied. We assume no liability for personal injury, consequential damages resulting from our product or our workmanship.

## START GUIDE

### 1. Challenger Specifications

Item No	136100-Pro	Wheel Base	275mm	Motor	2200KV
Item Name	Shooter	Wheel	1.9in/105*38mm	Breakover	26°
Scale	1/10	Clearance	40mm(steel) 68mm(chassis)	Approach	74°
Description	Crawler/Off-Road	Weight	1.69kg	Departure	69°
Drive Mode	4WD	Radio	2.4G/6CH	Gift Box Size	580*275*305mm
Length	420mm	ESC/Motor	FOC All-in-one	Body Type	PC Soft
Width	210mm	Battery	exclude battery in factory. battery suggestion: 2-3S Lipo, 6-9 Cells NiMH	Body Color	Pink/Blue
Height	200mm	Steering Servo	Digit Metal Gear-15KG	Piece per Carton	1P

### 2. Please read the manual carefully and prepare the following things before use.



### 3. The items inside the box.



### 4. Please check the whole product condition when open the package.

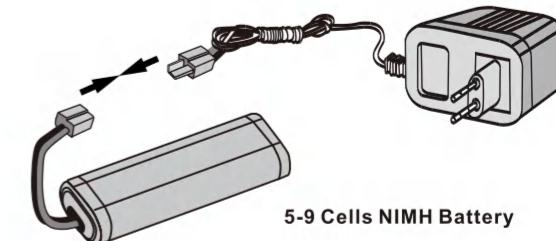
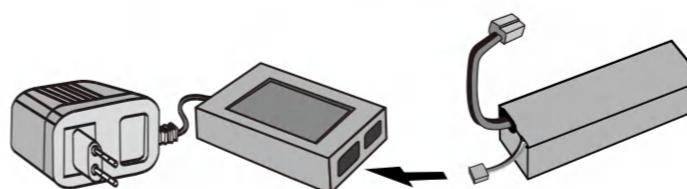
- 3-1. After each day of running, you should check your shocks for adequate fluid. If the fluid is low, or it is getting dirty, you should change the fluid in the shocks. To achieve better performance, you may also want to change the shock fluid and or the pistons.
- 3-2. Gear mesh is the clearance between the pinion and spur in an electric car or clutch bell and spur in a nitro car. It has impact on the vehicles performance. If the gear mesh is not set properly you may also damage the clutch bell and spur or the pinion gear and spur gear as soon as the vehicle starts running.
- 3-3. Please check if the screw is tight enough before use. Screw it tight (or apply the screw glue if necessary)
- 3-4. Regularly check and verify the tires are intact. No breach should be observed. Please apply the CA glue if needed.



### 5. Battery Specifications for Product

**WARNING:**  
NO battery includes in factory. Recommend battery: 2S~3S LIPO battery or 5-9 cells NiMH battery (please match the ESC mode with the corresponding battery type) Pay attention to the battery size and plug specification when purchasing. The maximum battery measurement is 142\*48\*55mm(LxWxH).

This product can use the 2S or 3S Li-Po battery.



5-9 Cells NiMH Battery

#### NOTICE

Please check the battery voltage before use. Please use a qualified charger to charge the newly purchased battery. (please read the charging steps in manual when necessary)

#### Charge the vehicle battery

- Connect charger plug with mains jack and then connect with connector of battery.
- Please be care of safety while charging, please remove charger plug from the mains jack once finish charging. will be over heat if it is too long to be charging or incorrect charging way. must stop charging if over 45 degree for the battery temperature.
- Do not charge for battery at once when you take it away from your car. Please make sure battery in cool condition before recharge battery to keep battery performance running well and get a longer use life.

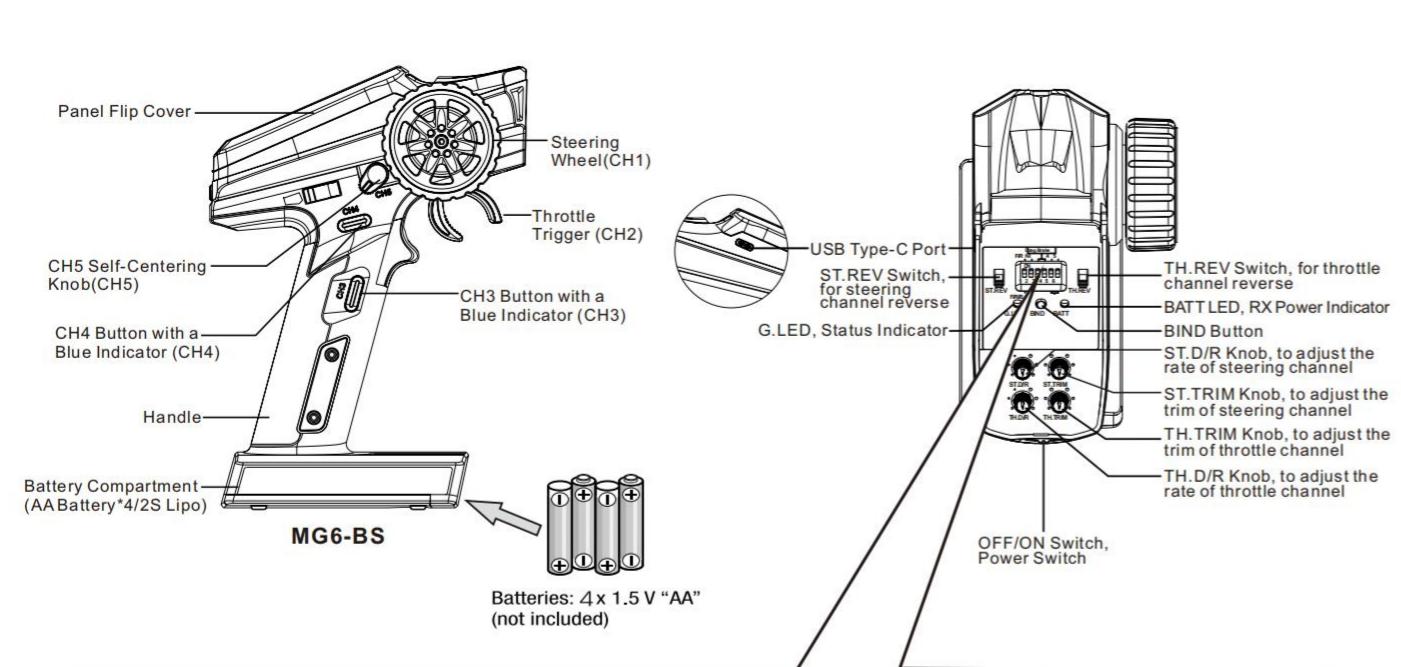
#### NiMH Battery Instructions

- Never dispose of NiMH batteries in a fire or store near sources of heat.
- Only use the supplied NiMH charger to charge the NiMH battery. Using another charger may permanently damage the battery and surrounding components and may also lead to injury.
- Batteries should only be charged on a fireproof surface, away from any flam-mable materials.
- Never leave the battery unattended when charging or discharging.
- Batteries must be discharged or fully exhausted before being disposed of, Cover exposed poles with adhesive tape to prevent short-circuiting!
- Never disassemble or alter the battery contacts. Do not damage or puncture battery cells. Doing so would result in an explosion hazard!
- Keep the NiMH battery away from children.

#### Lithium Polymer (LiPo) Battery Warnings

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

## 6-1. 2.4GHZ Radio System



### 6-bit DIP Switch

Running Mode	Battery Type	Drag Brake (The car does not have this function.)	
1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6

▲ (Drag Brake setting mode: refer to Page 10 Part 9-2)

The ESC parameters can be set by the 6-bit DIP Switch of the transmitter, that is, the DIP switch is located at different positions and the corresponding parameter values are different. There are three parameters can be set for the ESC, which are "Running Mode", "Battery Type" and "Drag Brake".

#### Running Mode

- Forward/Reverse/Brake(F/B/R): This mode adopts "double click" reverse mode, that is, when the throttle trigger is pushed from neutral range to the reverse area for the first time, the motor is only braking and will not reverse; when the throttle trigger is moved back to the neutral range and pushed to the reverse area for the second time, it will reverse. This mode is applicable to general models.
- Forward/Reverse(F/R): This mode adopts "one click" reverse mode, that is, when the throttle trigger is pushed from neutral range to the reverse area, the motor immediately generates reverse action, which is generally applied to rock crawler.
- The switch marked 1 of the 6-bit DIP switch is used to set the ESC running mode. The switch on the upper position indicates that the running mode is Forward/Reverse; and the switch on the lower position indicates that the running mode is Forward/Reverse/Brake.

#### Setup:

Toggle the switch 1 to the upper position, the buzzer will have one beep.  
Toggle the switch to the lower position, the buzzer will have two beeps.

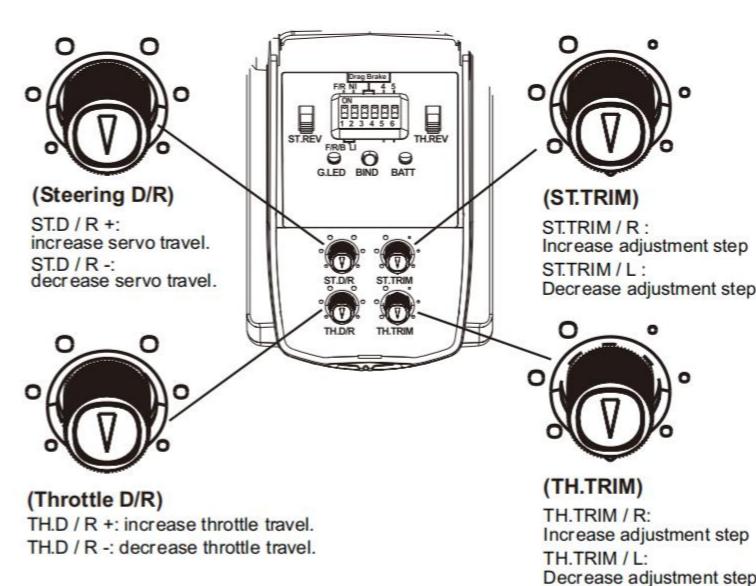
#### Battery Type

- There are LiPo and NiMH cells. It can be set according to the actual use.
- The switch 2 of the 6-bit DIP switch is used to set the battery type. The switch on the upper side indicates that the battery type is LiPo; and the switch on the lower side indicates that the battery type is NiMH cells.

#### Setup:

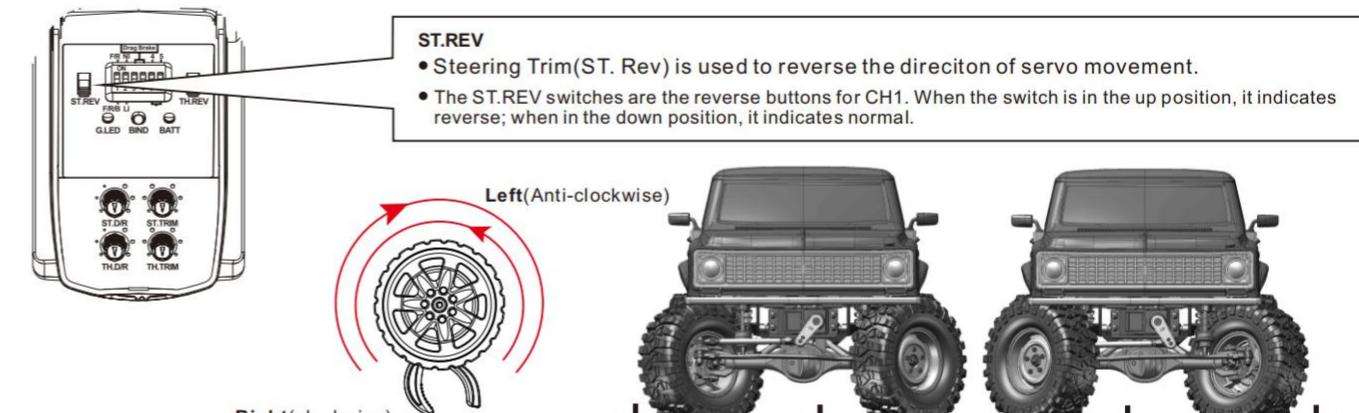
Toggle the switch 2 to the upper position, the buzzer will have one beep.  
Toggle the switch to the lower position, the buzzer will have two beeps.

## 6-2. Transmitter Steering and Throttle Instruction

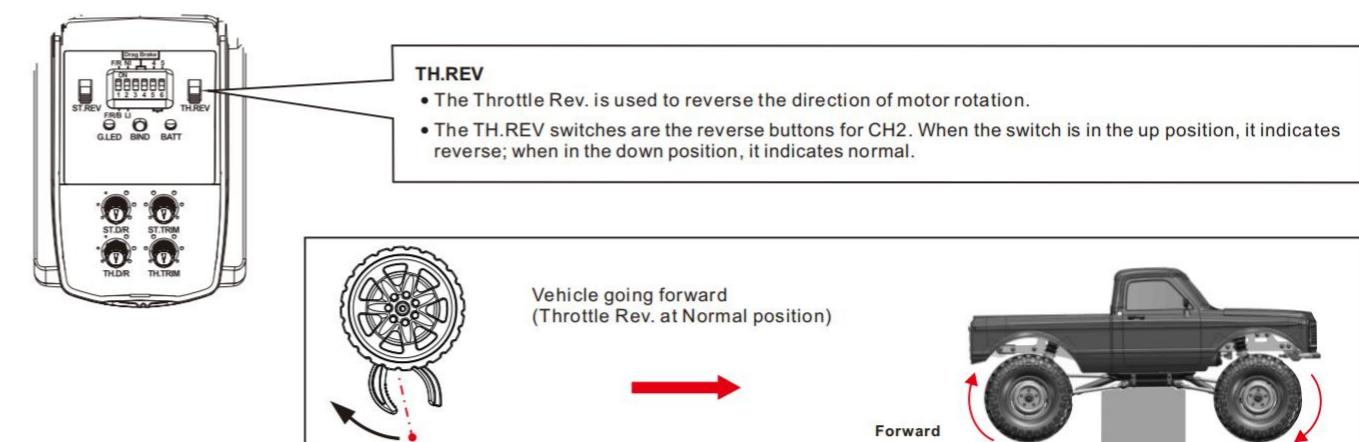


#### Note:

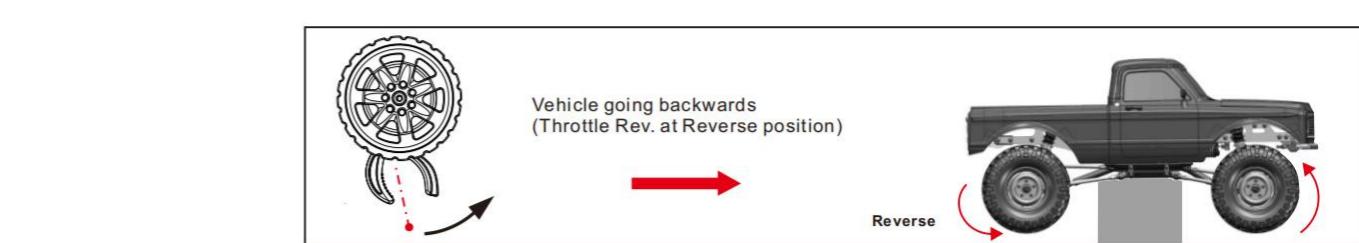
- Please trim the Throttle Trim (TH. Trim) until the vehicle stops in case the vehicle goes forwards or backwards itself just after it is turned on.
- If the front wheels are not aligned, please trim "steering trim" (ST.TRIM) until they are aligned.
- The ST.TRIM is the trims for Ch1 (steering). You can trim the Steering Trim until it fulfills your desired steering angles.
- ST.D/R is for servo travel adjustment, which can be multiplexed as CH2 (throttle).



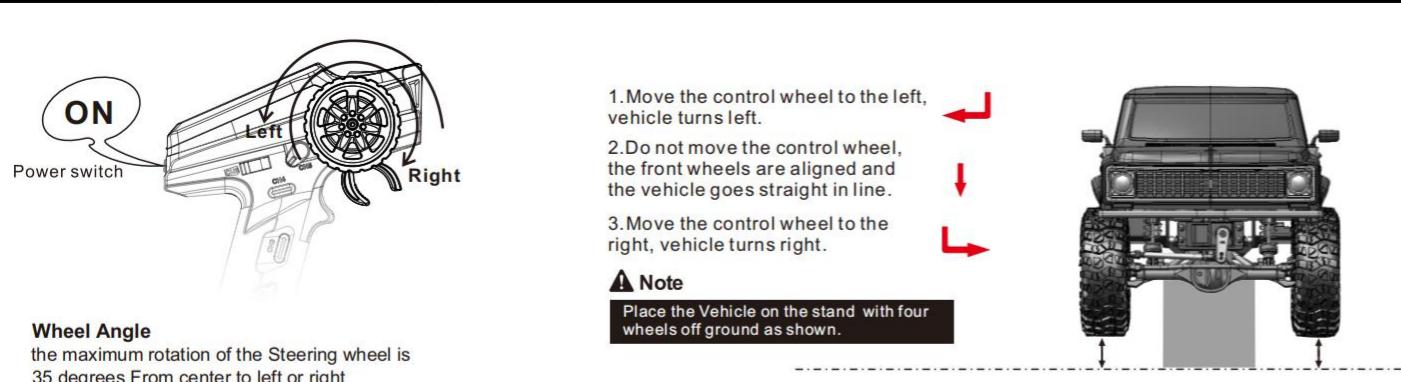
- Vehicle turning left when the control wheel is turned to the left (Steering Rev. At Normal position)
- Vehicle turning right when the control wheel is turned to the right (Steering Rev. at Reverse position)



- The Throttle Rev. is used to reverse the direction of motor rotation.
- The TH.REV switches are the reverse buttons for CH2. When the switch is in the up position, it indicates reverse; when in the down position, it indicates normal.

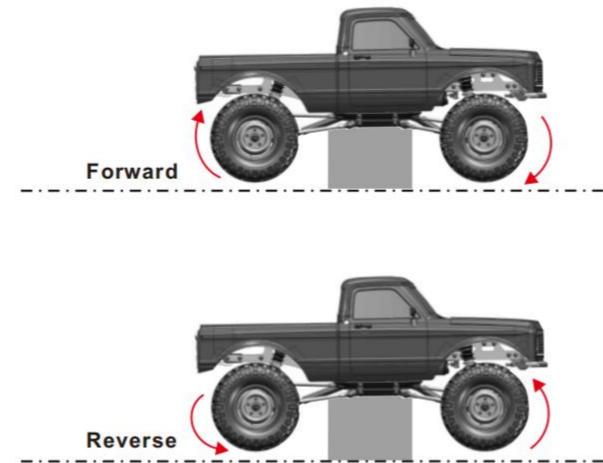
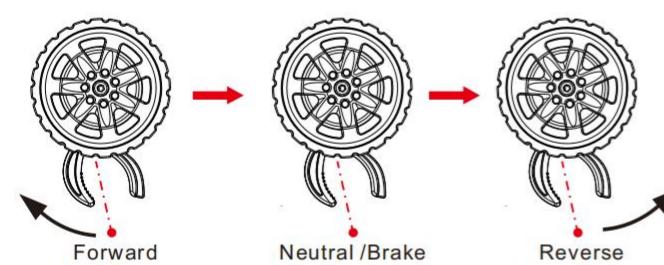


### 6-3. Transmitter Steering Trim and Throttle Trim

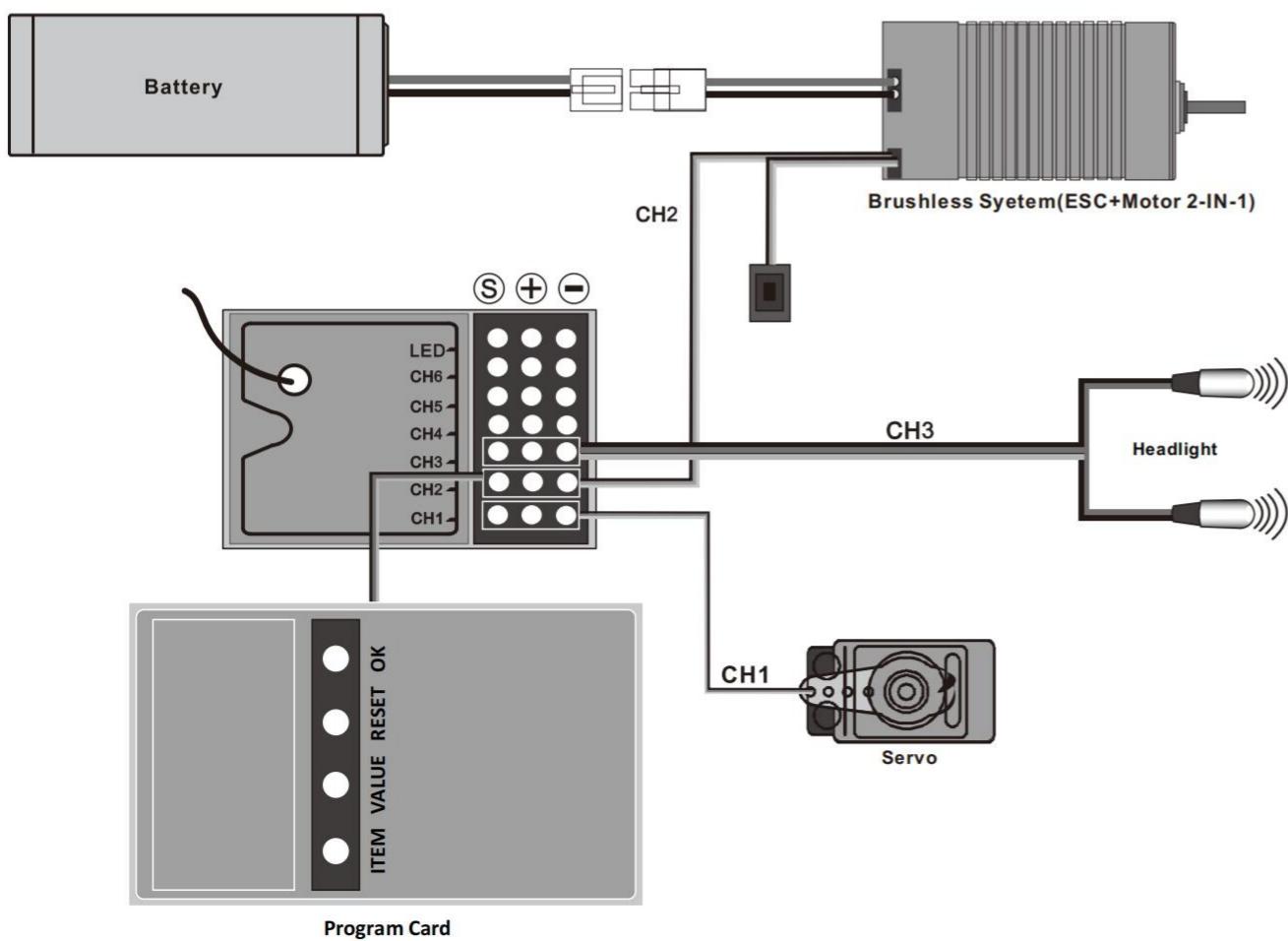


**Wheel Angle**  
the maximum rotation of the Steering wheel is 35 degrees from center to left or right

**Throttle trigger**, has a total throw of 12 degrees, 12.5 degrees forward, and 12.5 degrees backward. The heavier you pull or push the trigger, the faster acceleration will be. Note: Release the throttle trigger button, activate the brake mode automatically. (Only for Crawler)

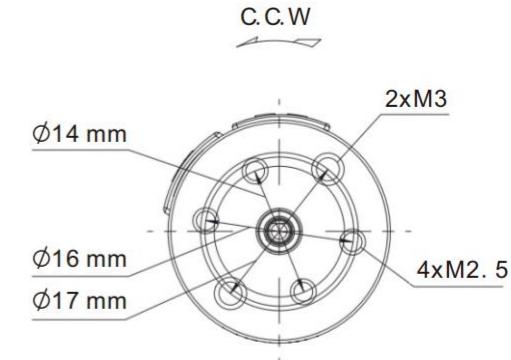
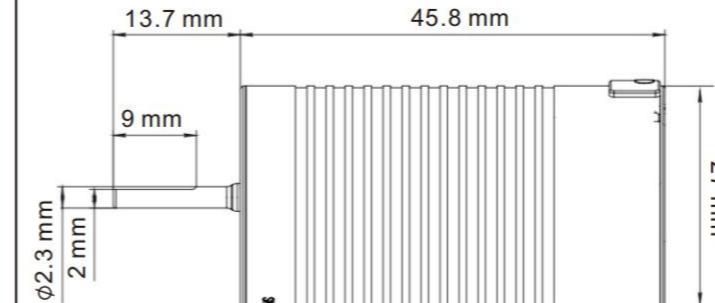


### 7. Connections



### 8. Fusion Mini RTR USER MANUAL

#### 8-1. Specifications



Continuous current	30A
Input	2-3S Lipo, 6-9 Cells NiMH
BEC output	7.4V/2A
Size/Weight	24mm(diameter) x 45.8mm(length) / 74.5g(including wires&connectors)
Motor KV	2200KV
Diameter / Length of motor	24mm / 45.8mm
Shaft diameter / exposed shaft length	2.3mm / 13.7mm
Motor Poles	4

#### 8-2. Parameter setting method

Use LED program box to set ESC parameters

The ESC is in off state, connect the throttle cable to the interface marked with "- + " in the upper right corner of the program box according to polarity correspondence. Then power on the ESC, after a few seconds, all parameters of the ESC can be displayed. The "ITEM" and "VALUE" button on the programming card can quickly select the programming items and parameter values, press "OK" button to save the new parameters in ESC.

#### 8-3. Factory reset

Use LED program box to restore factory settings. The method is as follows:

After connect program box and the ESC, press "RESET" button and then press "OK" button to save, the factory settings can be restored.

#### 8-4. Automatic Motor Pairing(Optional)

If the motor has been subjected to severe impact or has abnormal heating and abnormal power output during operation, automatic motor pairing may be needed. The operation method is as follows:

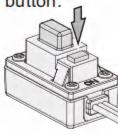
**Step 1:** Unplug the throttle cable from the receiver and remove the motor pinion gear.

**Step 2:** Connect the battery, long press and hold the SET button, and after a few seconds, the motor will beep, wait for a few more seconds, and when the motor stops beeping, release the SET button, there will be one long beep followed by two short beeps, indicating that the automatic motor pairing is completed. Reconnect the throttle line to operate normally.

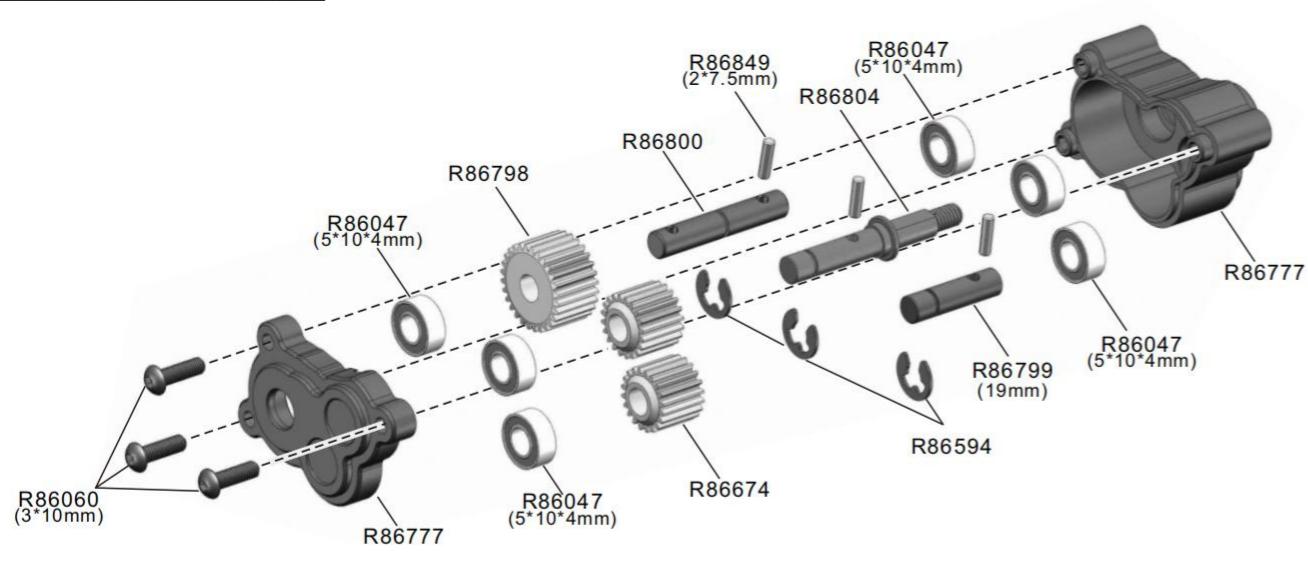
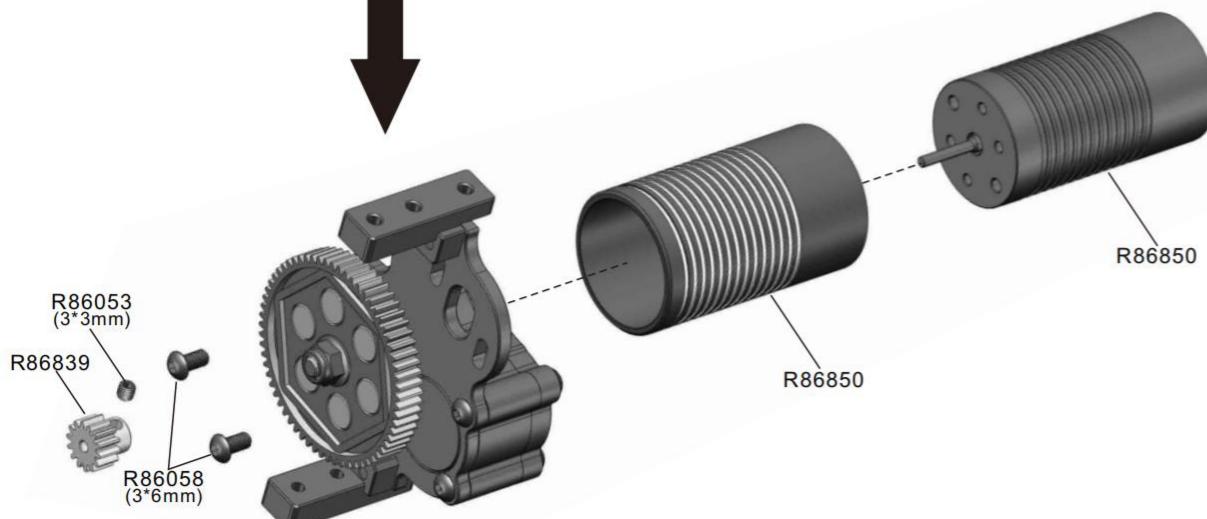
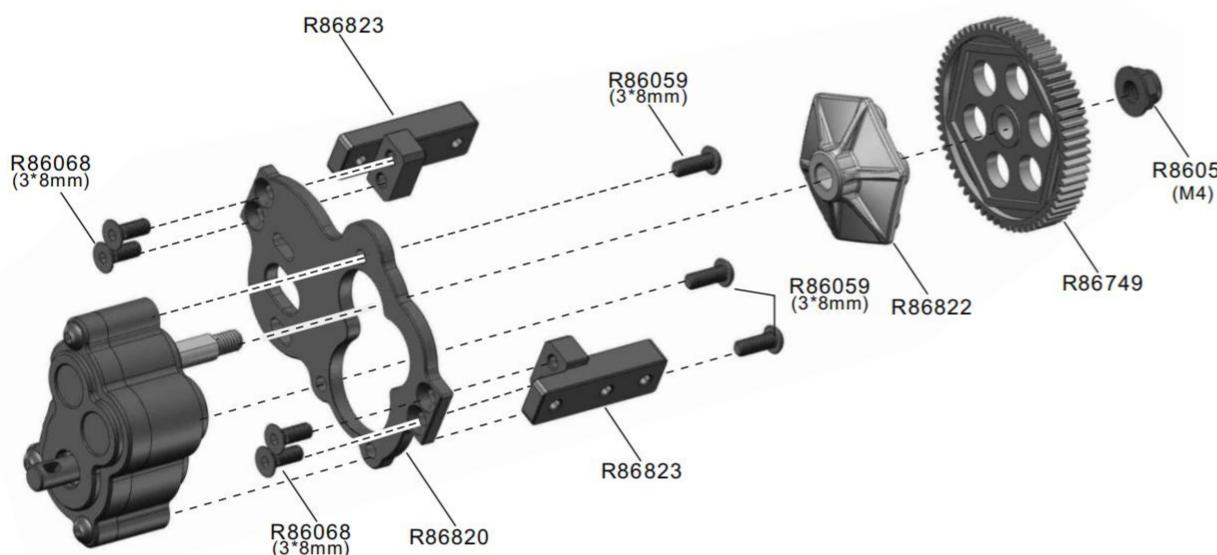
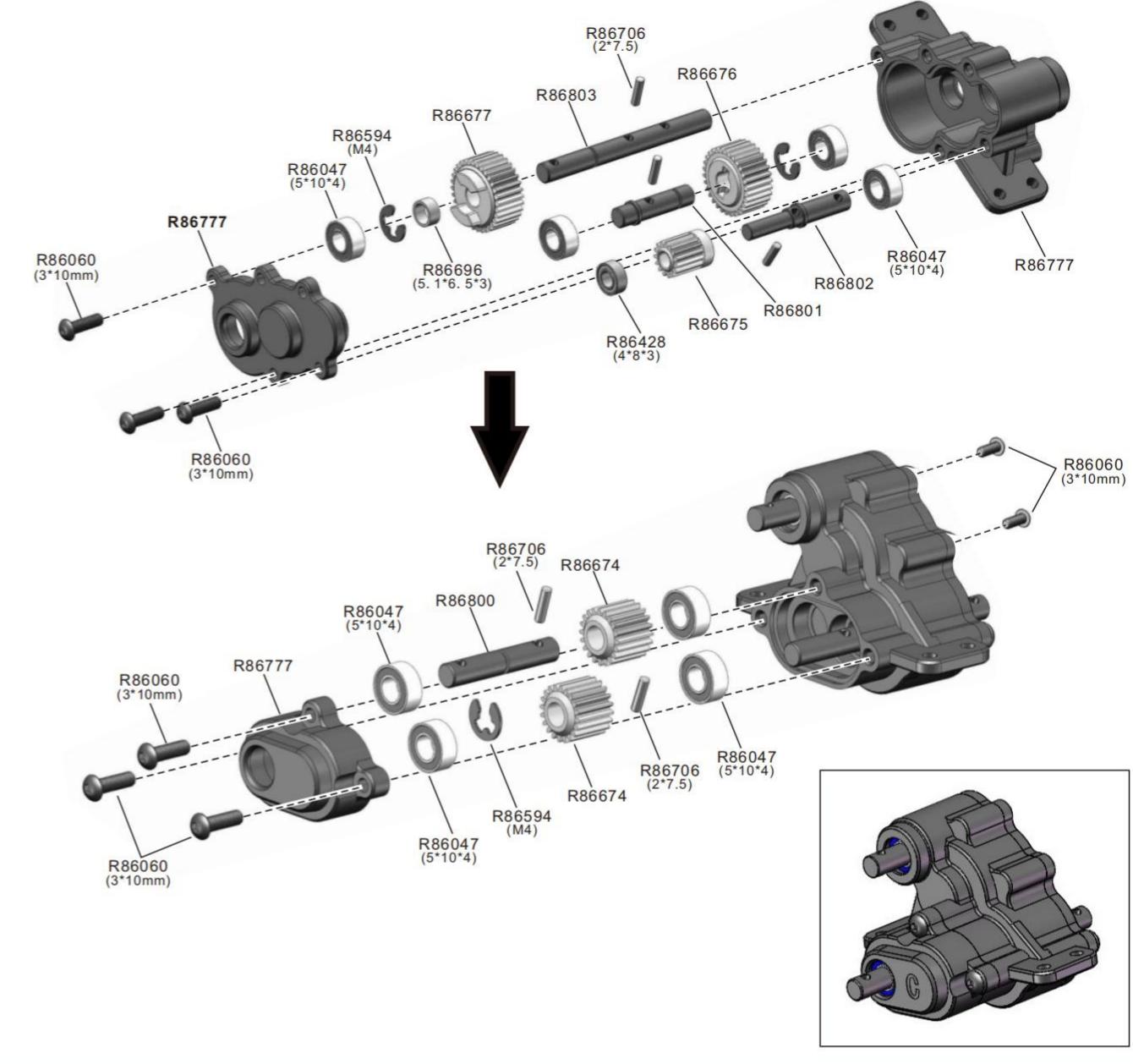
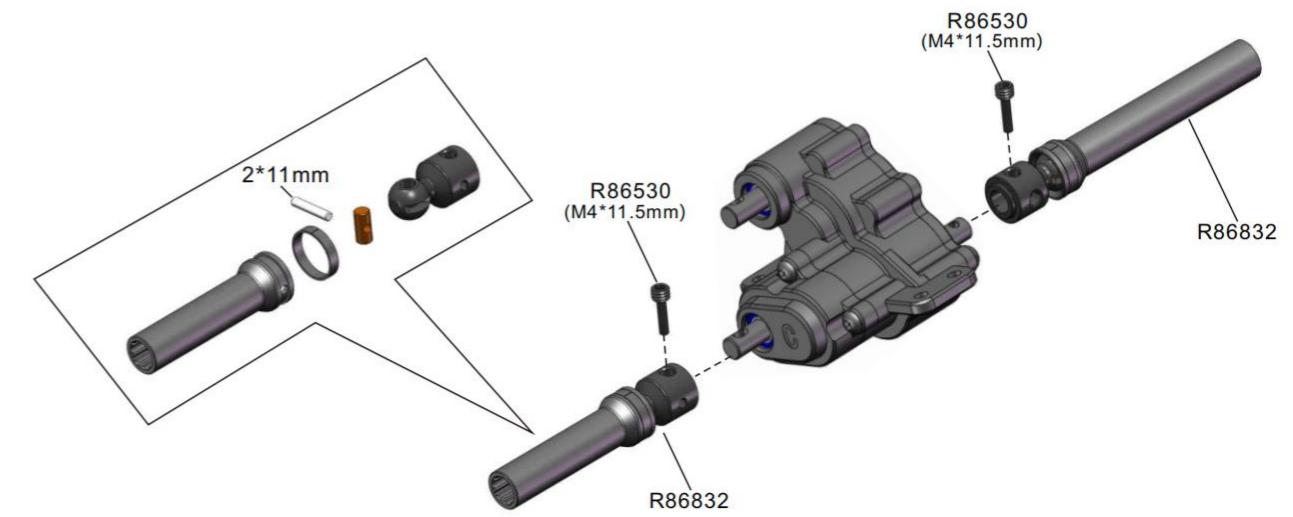
**Note:** Please remove the motor gear before operation, otherwise it may lead to incorrect matching and unknown risk.

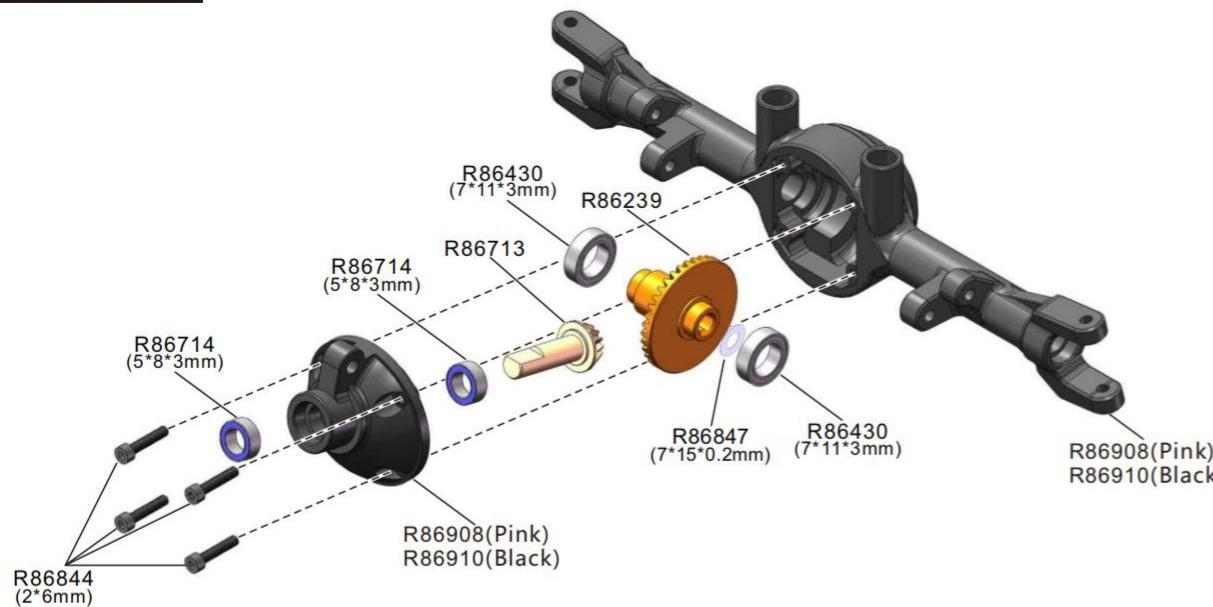
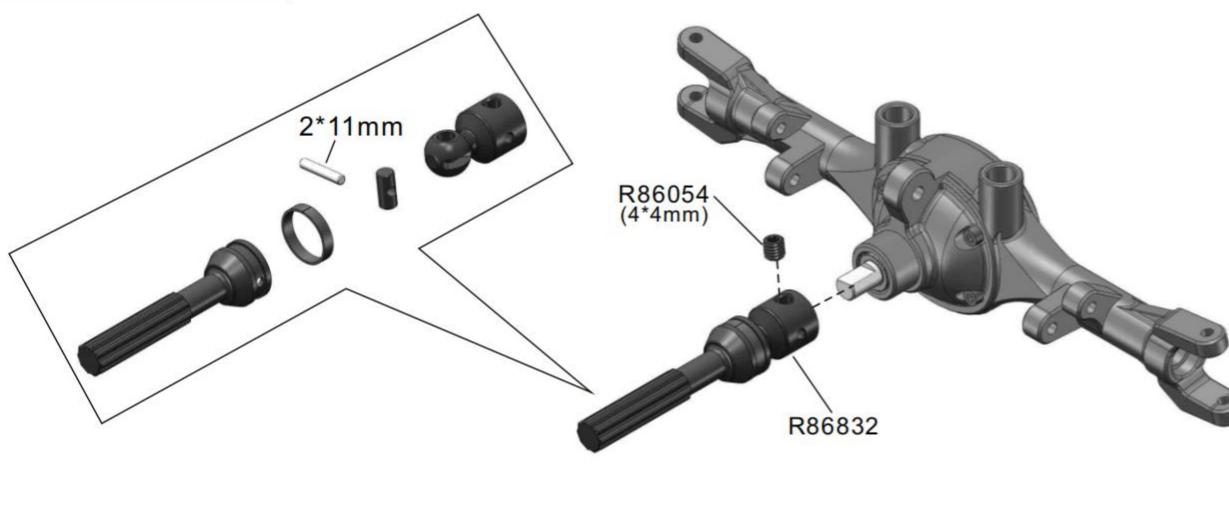
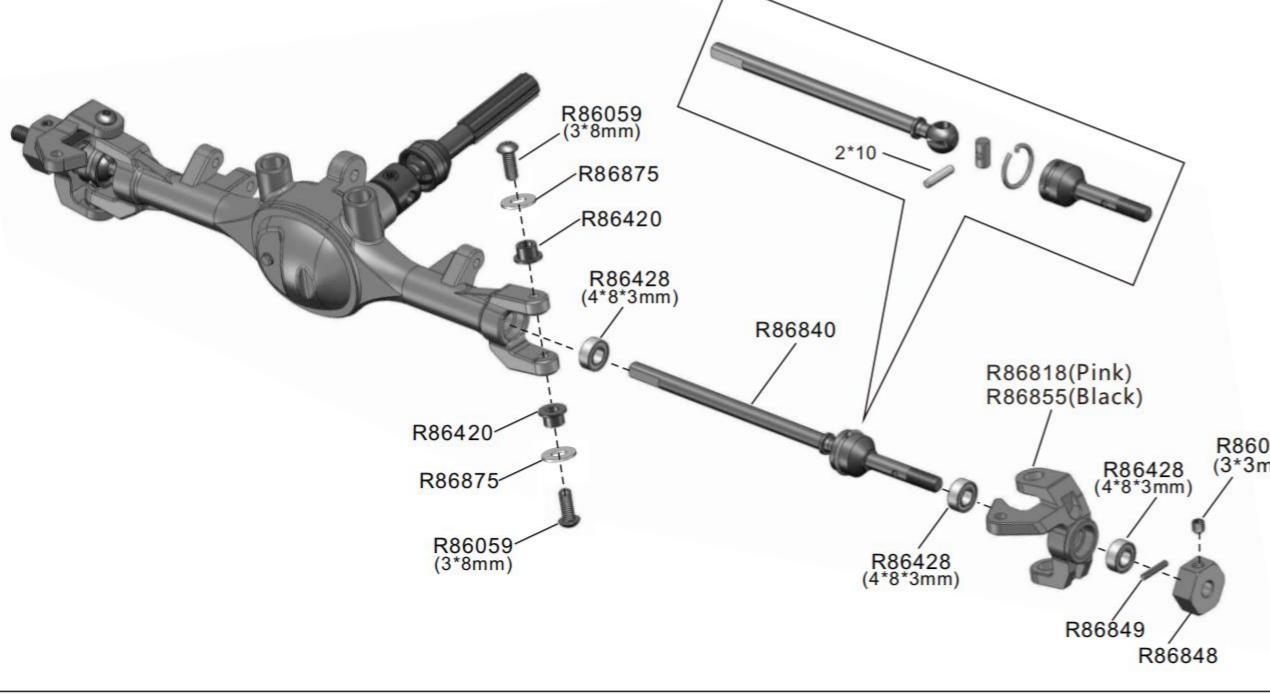
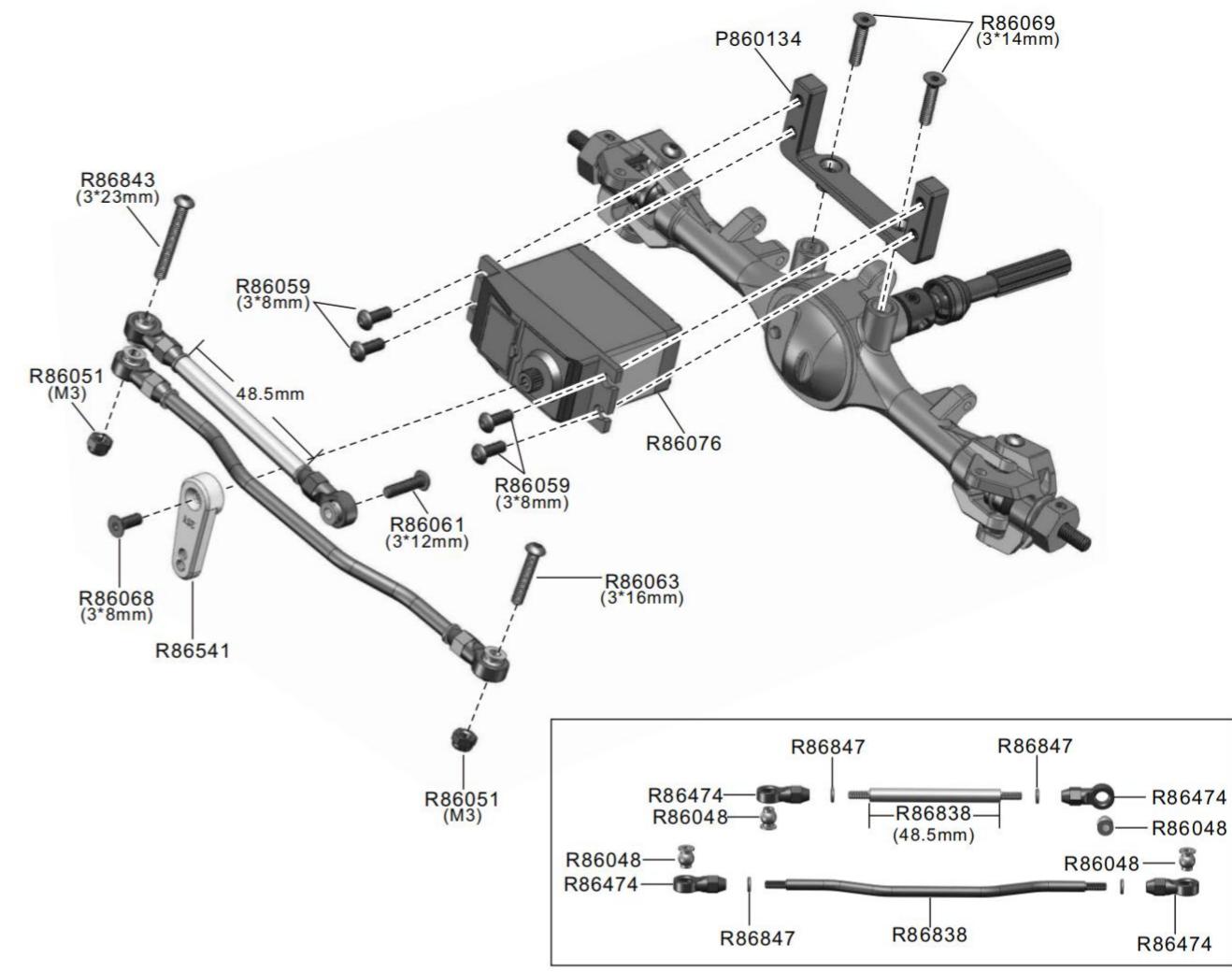
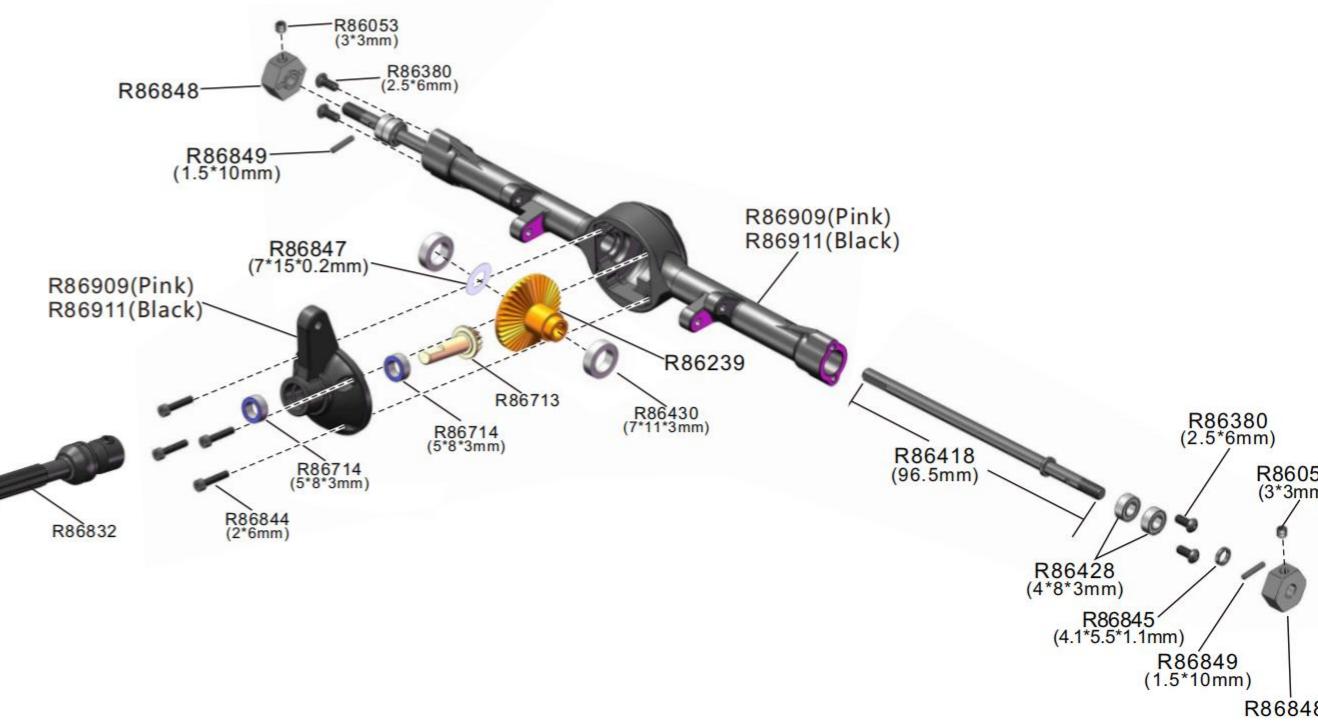
#### 8-5. Troubleshooting

Malfunction	Cause	Solution
The motor does not work.	1. Throttle signal is not detected by the ESC; 2. The neutral position of ESC and radio is unmatched; 3. The battery voltage is not input to the ESC; 4. The switch of ESC is damaged.	1. Check whether the throttle line is inserted reversely, whether the channel is inserted wrongly and whether the radio is on. 2. The throttle return to neutral position. Recalibrate throttle range. 3. Check whether the connection between the battery and the esc is good, whether the plug is soldered poorly, whether there is a problem with the battery. 4. Replace the switch.
The car is going in the reversed direction when the forward.	The default rotation direction setting of motor and car frame is unmatched.	Set the parameter item "Motor Rotation" to the opposite direction via LED program box.
The motor suddenly stopped or significantly reduced the output in running.	1. The receiver is interfered; 2. The ESC enters low voltage protection; 3. The ESC enters overheat protection.	1. Check why the receiver is interfered. Check battery level of transmitter; 2. Replacing the battery; 3. Please use it after the temperature drops and reduce the load.
When the throttle is in neutral position, the car slowly moves forward or backward.	1. The middle position of radio drifts and the signal is unstable; 2. Throttle range is not calibrated well.	1. Replace a radio with stable signal; 2. Recalibrate throttle range or use throttle TRIM to calibrate the neutral position.
The throttle range setting could not be completed.	1. The throttle cable of esc is not inserted the correct channel of receiver, or inserted reversely; 2. Problem with the receiver or transmitter.	1. Check whether the throttle cable is correctly connected to the receiver; 2. If the servo works normally, you can connect the throttle cable of esc to the steering channel to have a test, or change the transmitter/receiver system for test directly

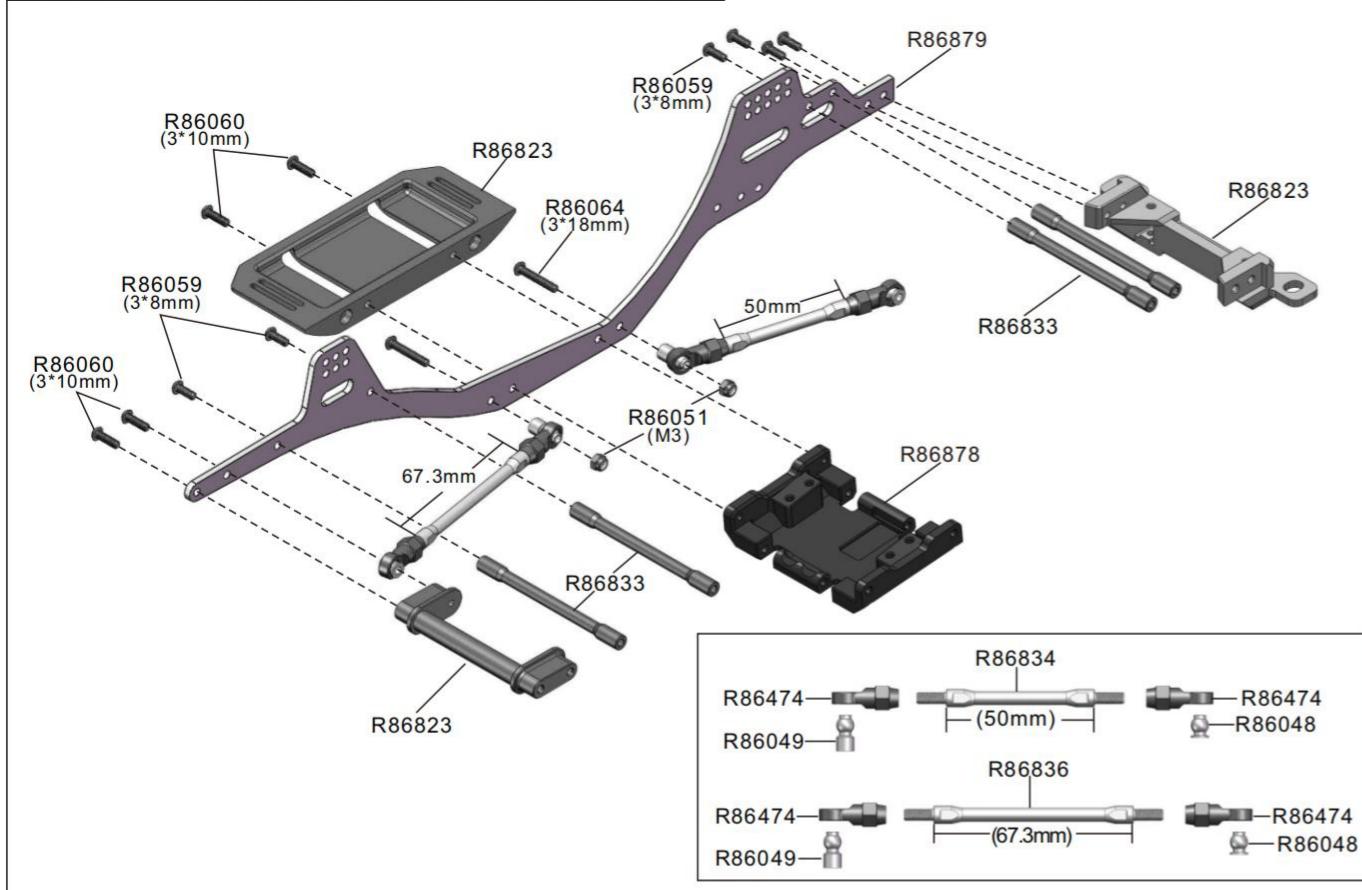
9. ESC Setup										
9-1. Specifications										
The calibration must be done on the first use of the ESC, or if a new radio or receiver is installed otherwise the ESC cannot work properly. We recommend to set the fail-safe function of throttle channel("F/S") to close output mode or set the protection value to the neutral position, making the motor stop running when the receiver cannot receive signal of the radio. The method of setting the throttle range is as following:										
 <p>1. Turn on the radio, adjust the "D / R", "EPA", "ATL" of the throttle channel to 100% (if the radio has no display screen, adjust the corresponding knob to the maximum position), and adjust the "TRIM" of the throttle channel to 0 (if the remote control has no display screen, adjust the corresponding knob to the middle position). <b>This step can be skipped if the radio's settings are default!</b></p> <p>2. In power off state, Hold the SET button and turn on the ESC, the motor will beep, and then release the SET button.</p> <p>3. At this time, three points need to be set: the neutral position, the end position of forward and the end position of reverse.</p> <ul style="list-style-type: none"> <li>The throttle trigger stays at the neutral position, press the SET button, the motor emits "beep" once, indicating that the neutral position has been stored.</li> <li>Pull the throttle trigger to the end position of forward, press SET button, the motor emits "beep" twice, indicating that the end position of forward has been stored.</li> <li>Push the throttle trigger to the end position of reverse, press SET button, the motor emits "beep" three times, indicating that the end position of reverse has been stored.</li> </ul> <p>4. After calibrating, the motor can be operated normally.</p>										
9-2. Instruction for programmable items										
The column of white words on black background in the following table are the default values of programmable items.										
NO:	Setting item	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Option 9
1	Cutoff Voltage	Disabled	Low	Medium	High					
2	Motor Rotation	CCW	CW							
3	Drag Brake Force	Disabled	Level 1	Level 2	Level 3	Level 4	Level 5			
4	Drag Brake Rate	Level 1	Level 2	Level 3	Level 4	Level 5				
5	Punch	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9
1. Cutoff Voltage:										
This function is mainly to prevent the irrecoverable damage caused by over discharge of Lipo Cells. If the voltage protection is turned on, the ESC will monitor the battery voltage all the time during operation. Once the voltage is lower than the set threshold value, the power output will gradually reduce to 50% of the normal power within 2 seconds, and the power will be completely closed after about 30 seconds. When entering the low-voltage protection, the red LED will blink in the way of "-,-,-" in single cycle. When set to no protection, the ESC will not cut off power due to low voltage. When using Lipo Cells, it is not recommended to set to (no protection), otherwise the battery may be damaged due to over discharge. For NiMh batteries, it is recommended to set this parameter to no protection. The low, medium and high options correspond 3.0V/Cell, 3.25V/Cell, 3.5V/Cell.										
2. Motor Rotation:										
The front of the motor shaft faces the user's face (i.e. the tail of the motor is far away from the user's face), when the radio is increasing the throttle in the forward direction, if it is set to CCW, the motor shaft rotates counterclockwise; if it is set to CW, the motor shaft rotates clockwise. Due to the structure difference of car frame, the direction may not be correct. If the rotation direction is wrong, change to the reverse direction.										
3. Drag Brake Force:										
Drag brake means a brake force on the motor when the throttle is released to the neutral position. "Disabled" means the drag brake force is 0; the corresponding drag brake force increases from level 1 to level 5. Select the appropriate drag brake force according to the actual situation.										
4. Drag Brake Rate:										
It is the rate when drag brake force increases from zero to the set value when the throttle trigger is released to the neutral position. The higher the level is, the greater the drag brake rate is, that is, the faster the drag brake. Reasonably set this value can make the vehicle stop more stably.										
5. Punch:										
The Punch setting is used to control how aggressive the motor starts. The higher the value the more aggressive the starts will be. Lowering the punch setting can help with low traction situations, or stuttering when the throttle is aggressively applied.										
10. All the ways done, your car is ready to run. Hope you enjoy the fun in driving it.										
Tip: Always turn off the receiver and then the transmitter when not in use. Clean the car before storage.										
Vehicle Maintenance:										
1). Please remove the batteries from both the vehicle and the transmitter, when the car is out of use for a long time,										
2). Before each use, please carefully check whether the circuit wires of the model are tight and free of loose connectors. Also, please carefully inspect if the wheels are securely fastened—loose wheels can cause excessive wear to parts such as the drive shaft, wheel cups, or wheel hubs.										
3). Ensure the unused battery pack should be charged to 50-60% capacity before being stored in a dry and cool place, out of the reach of children.										
4). After each use, please carefully check if all parts are intact, and repair or replace the worn parts. Use a fine brush to sweep the sand, marl and other dirt inside the model, then wipe it cleanly by a soft cloth.										

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

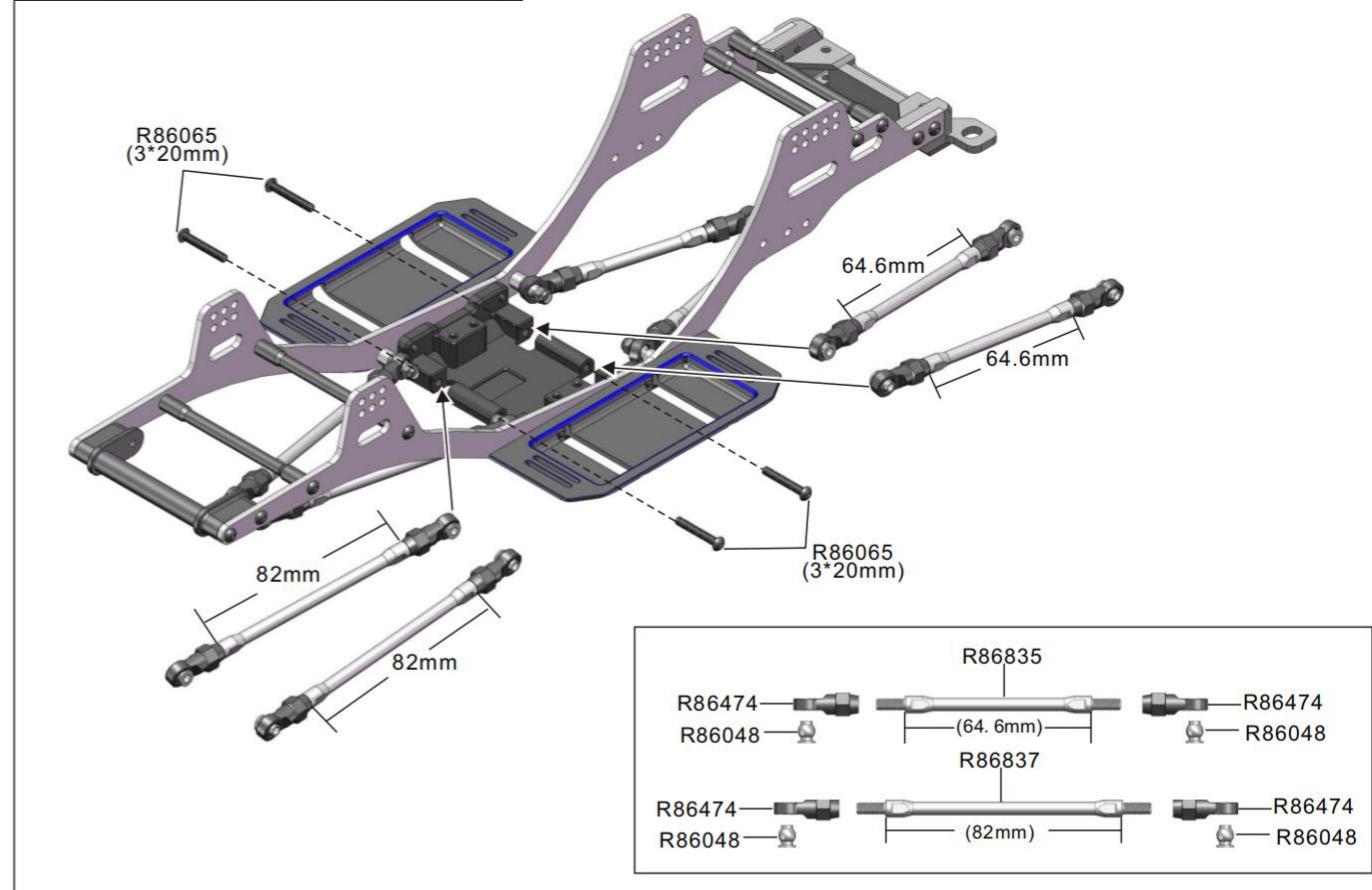
**Transmission Assembly-1****Motor/Transmission Assembly****Transmission Assembly-2****CVD Driveshaft Assembly**

**Front Axle Assembly****CVD Driveshaft Assembly****CVD Drive Shaft Assembly****Steering Servo/Servo link/Steering Link Assembly****Rear Axle Box/Rear Shaft Assembly**

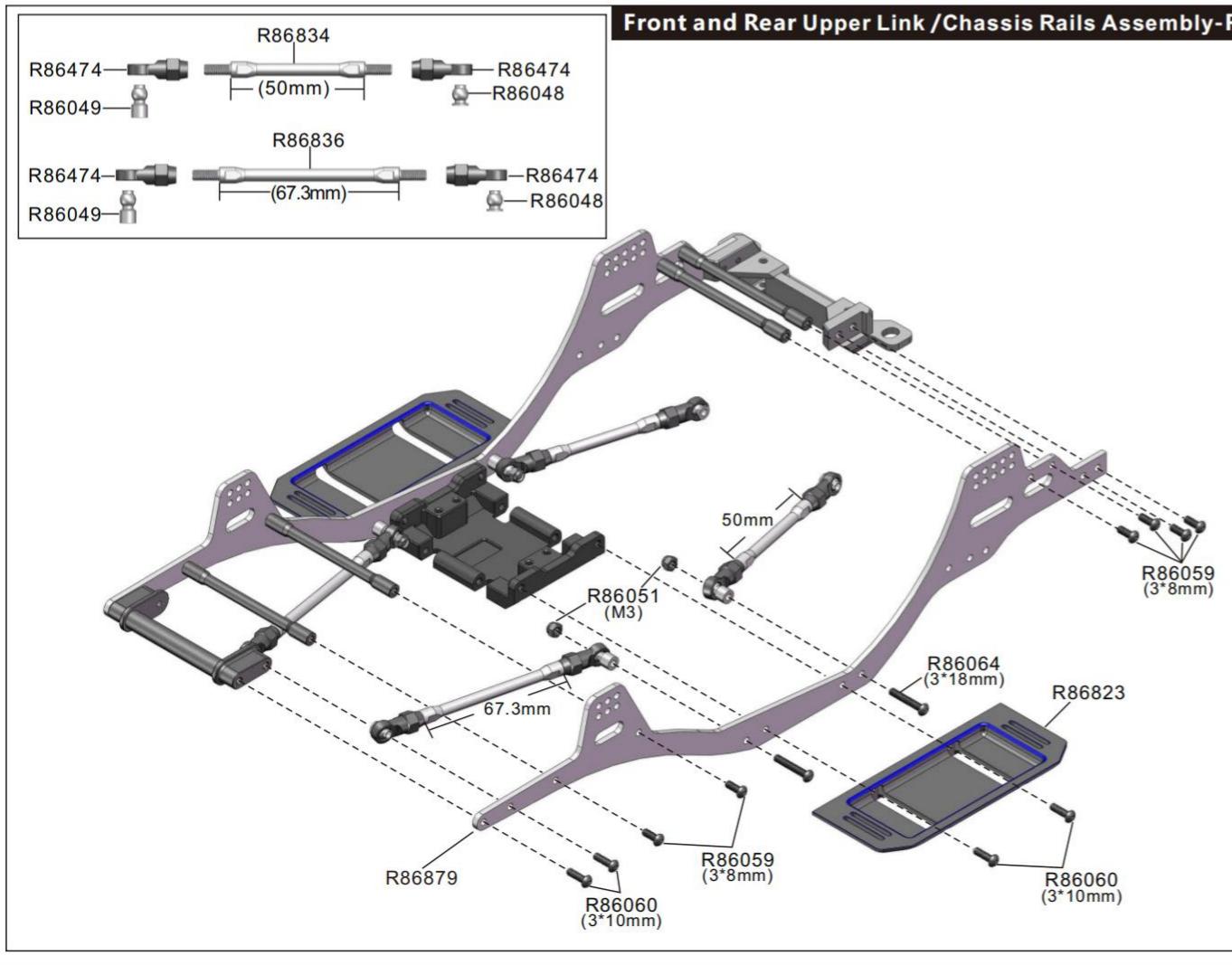
## Front and Rear Upper Link /Chassis Rails Assembly-L



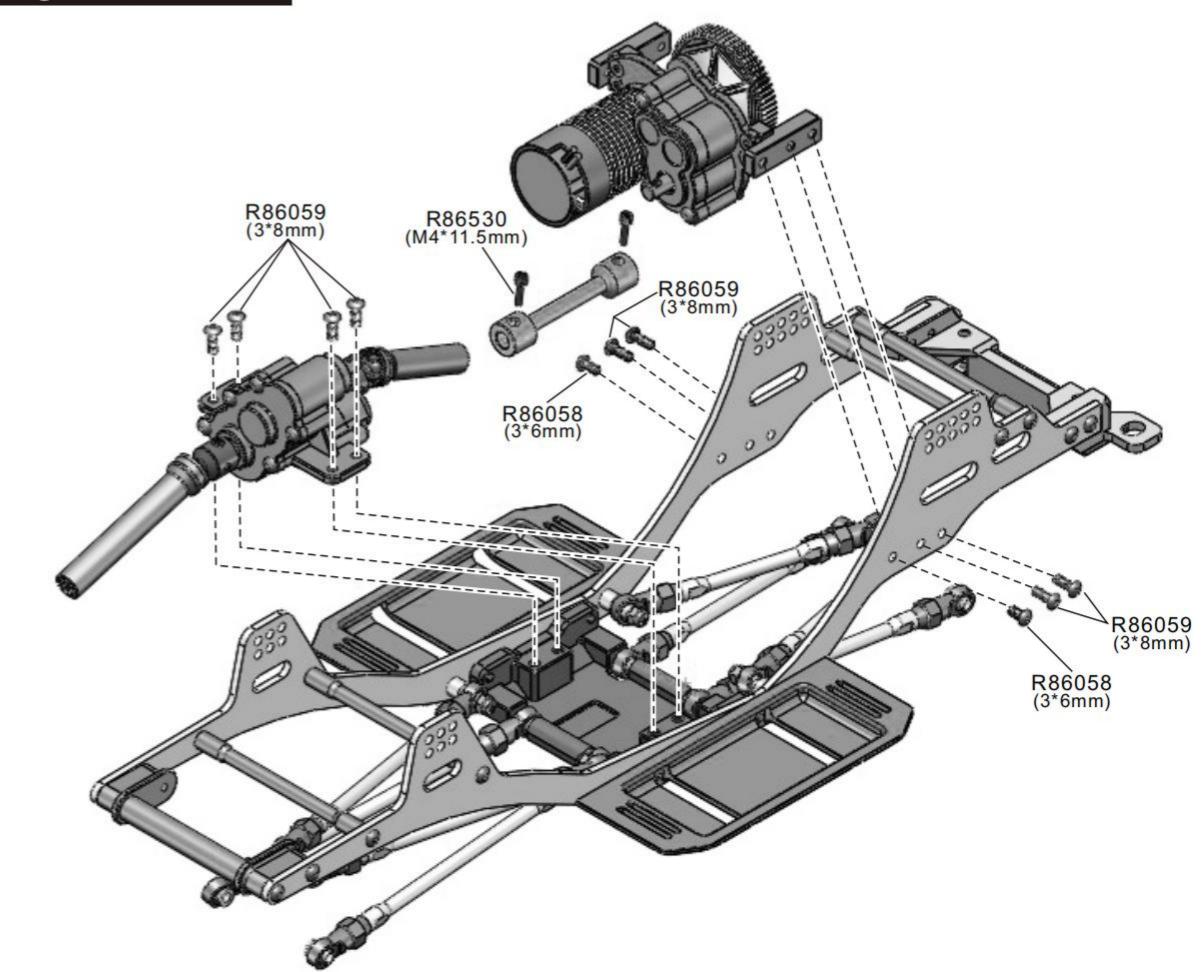
## Front and Rear Lower Link Assembly

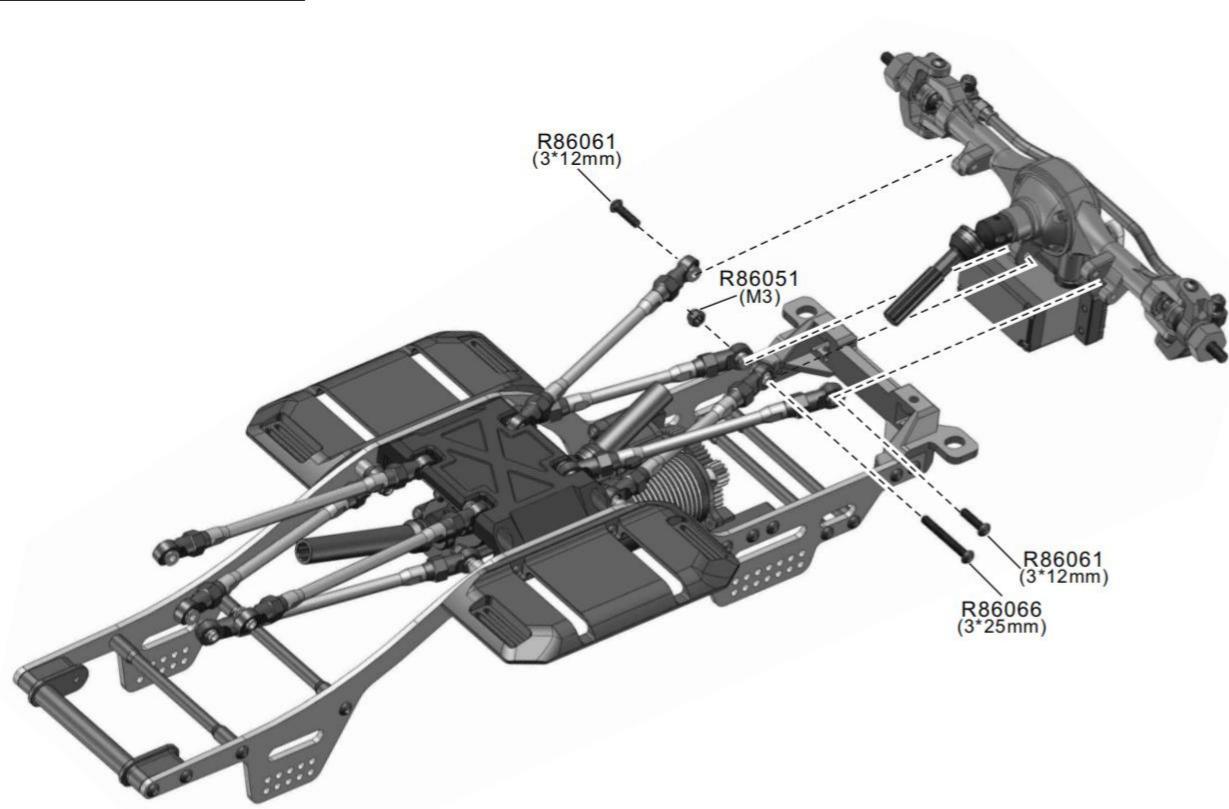
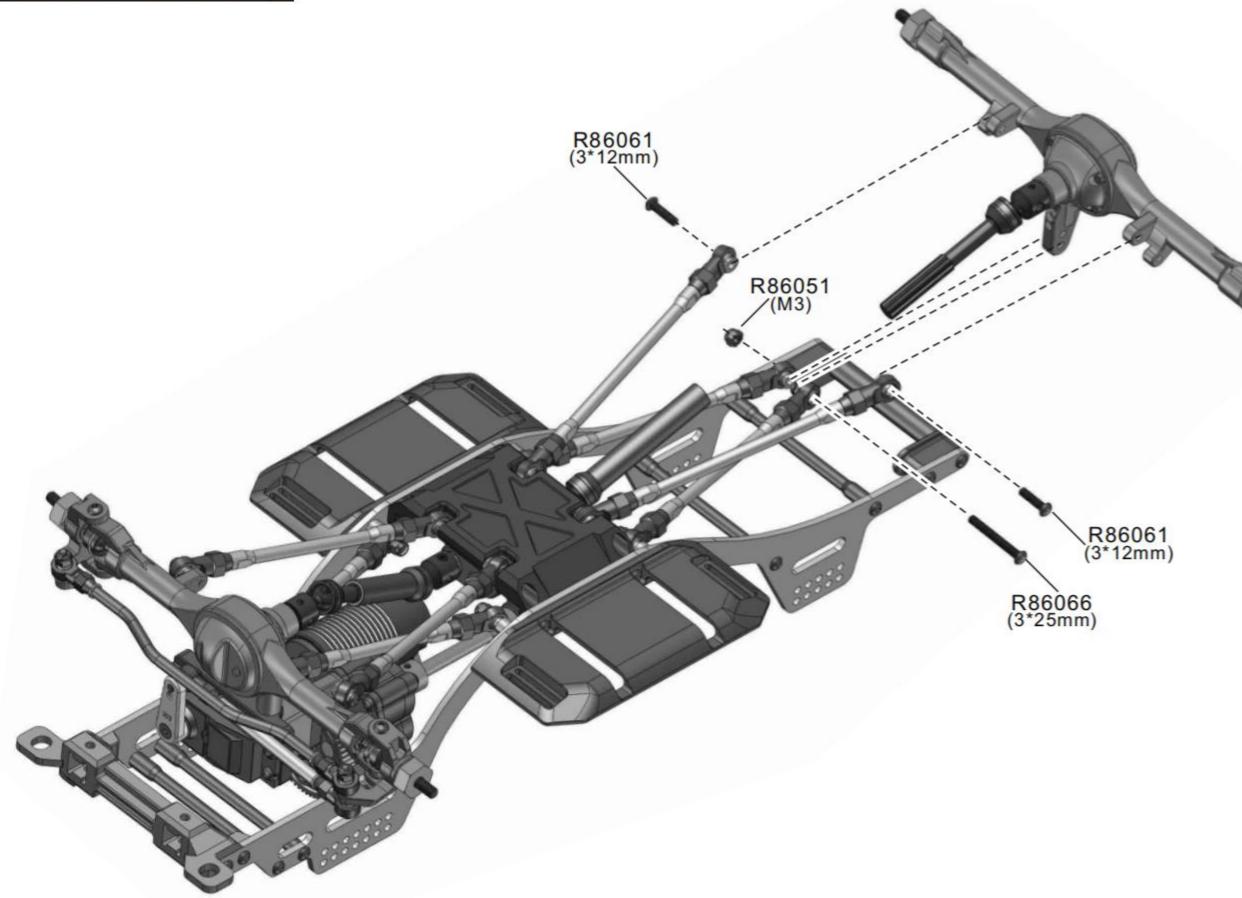
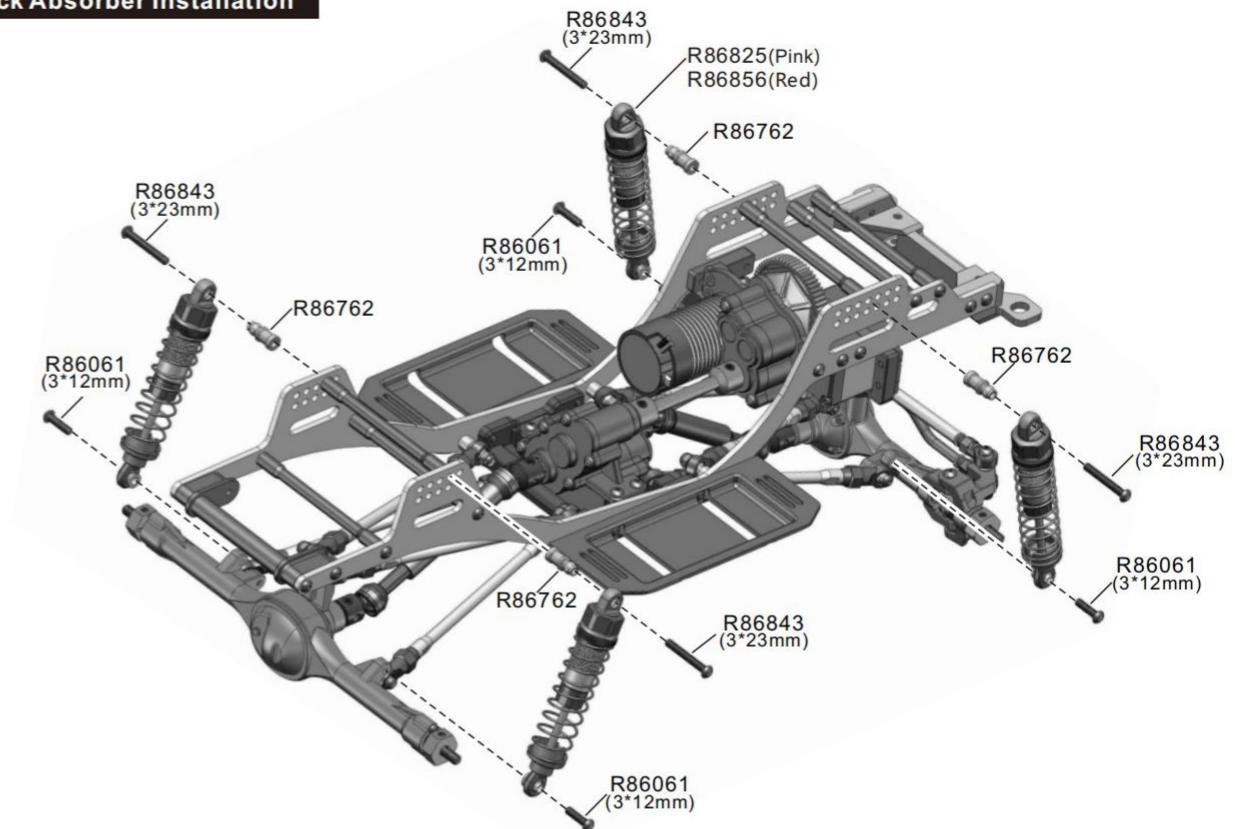
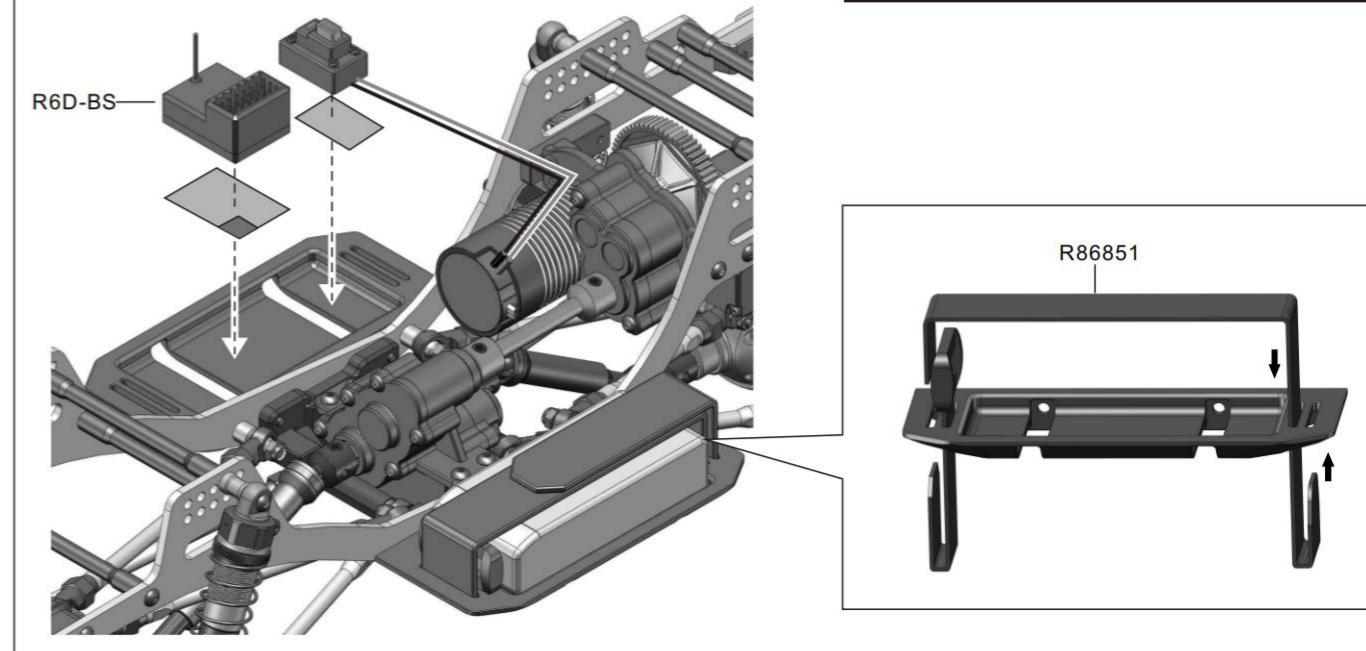


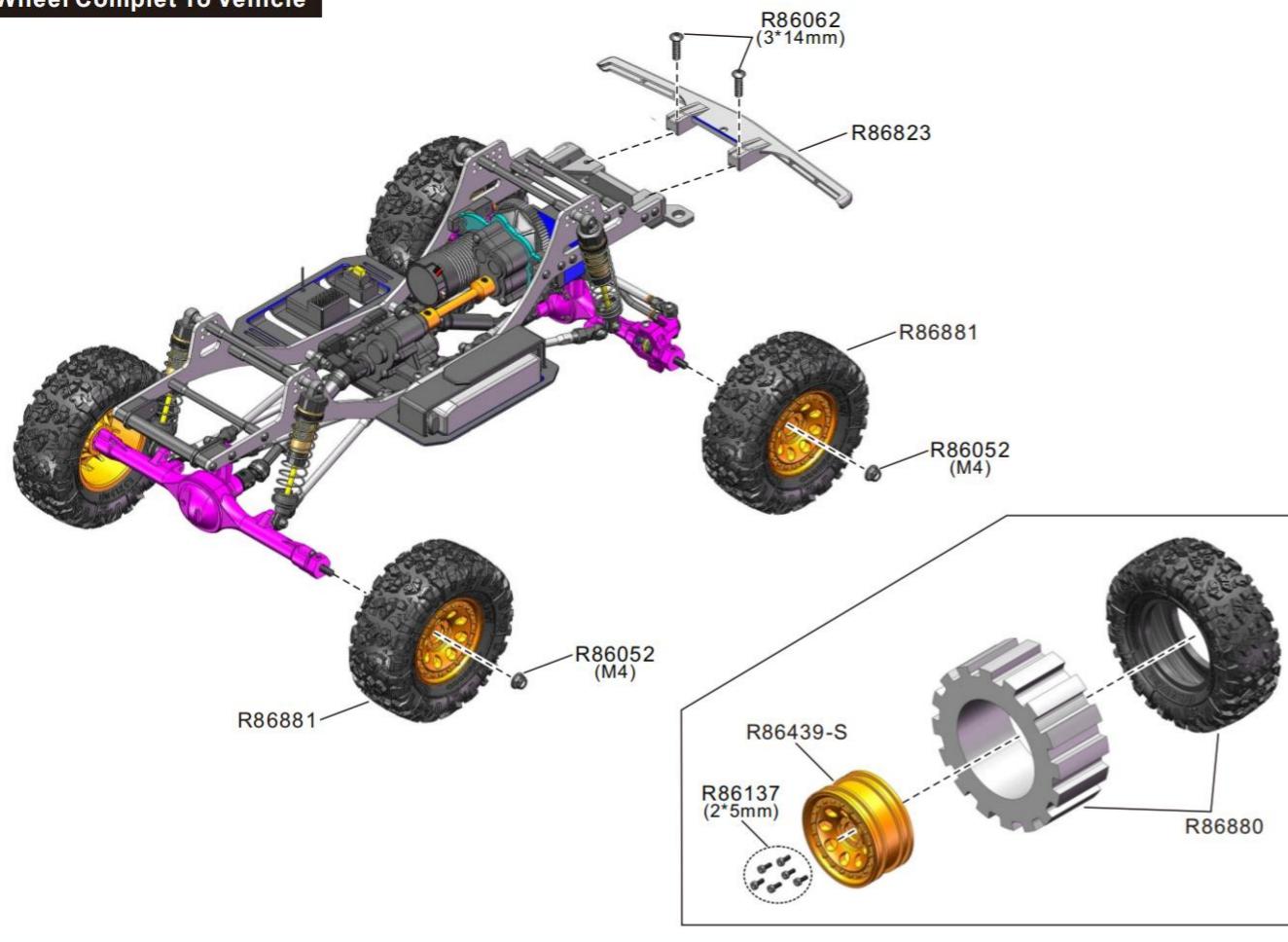
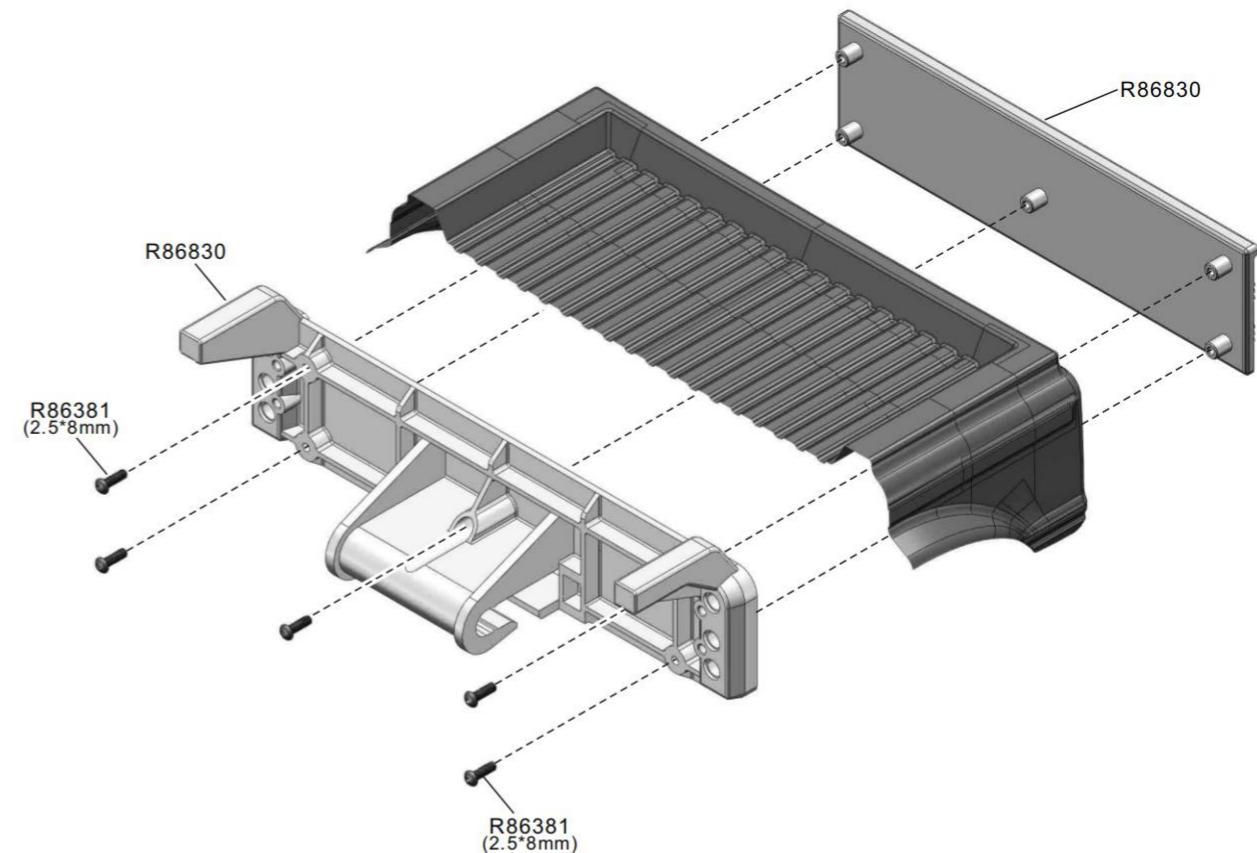
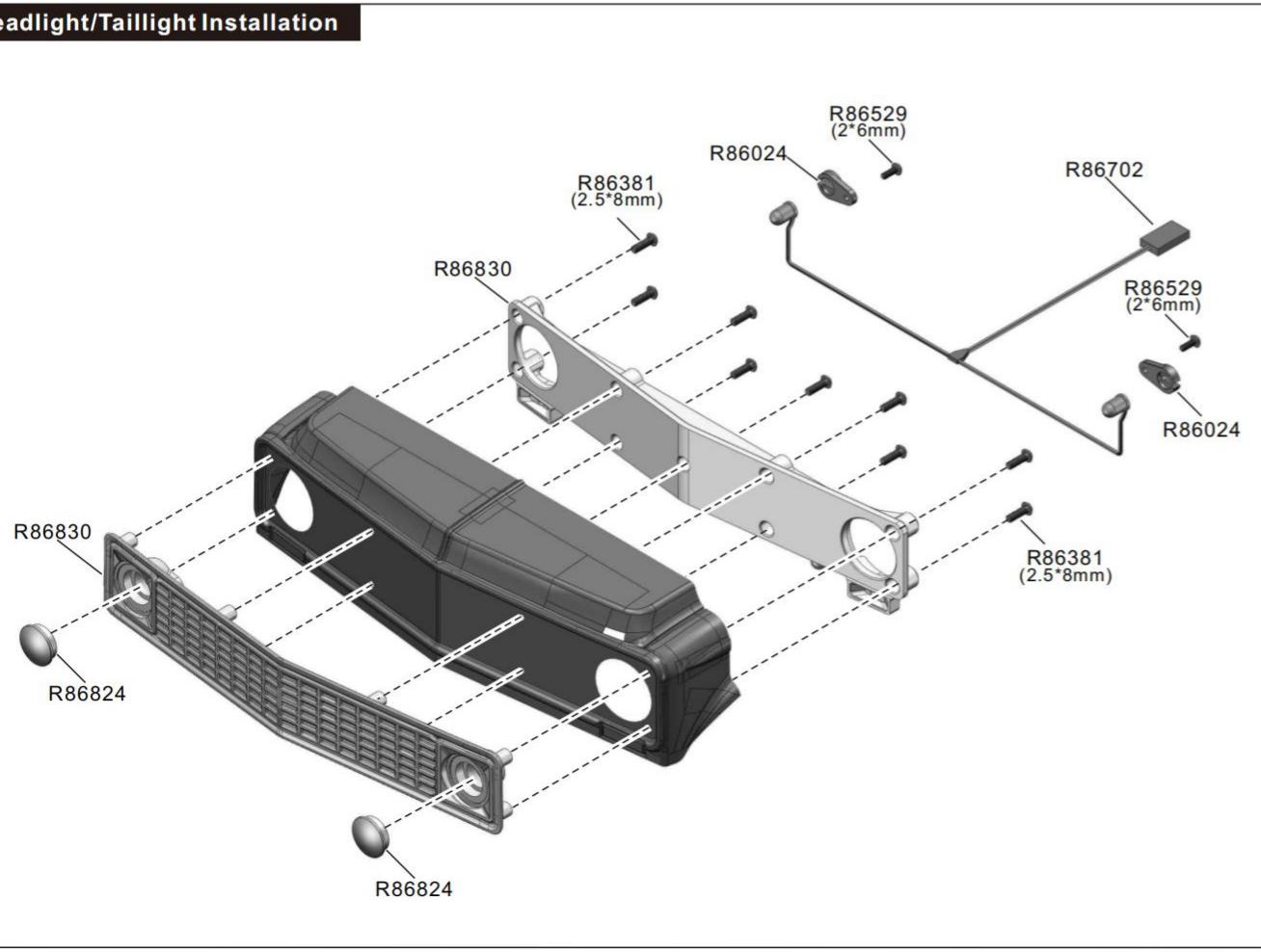
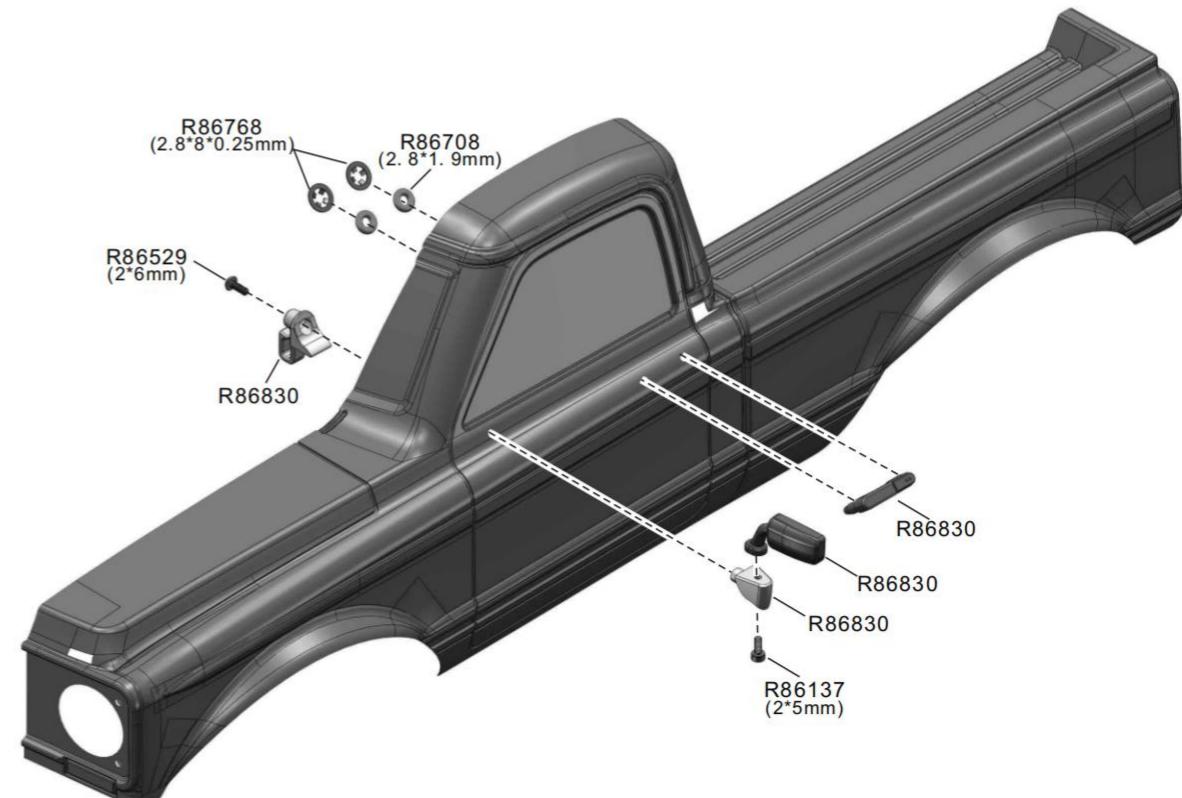
#### Front and Rear Upper Link /Chassis Rails Assembly-F



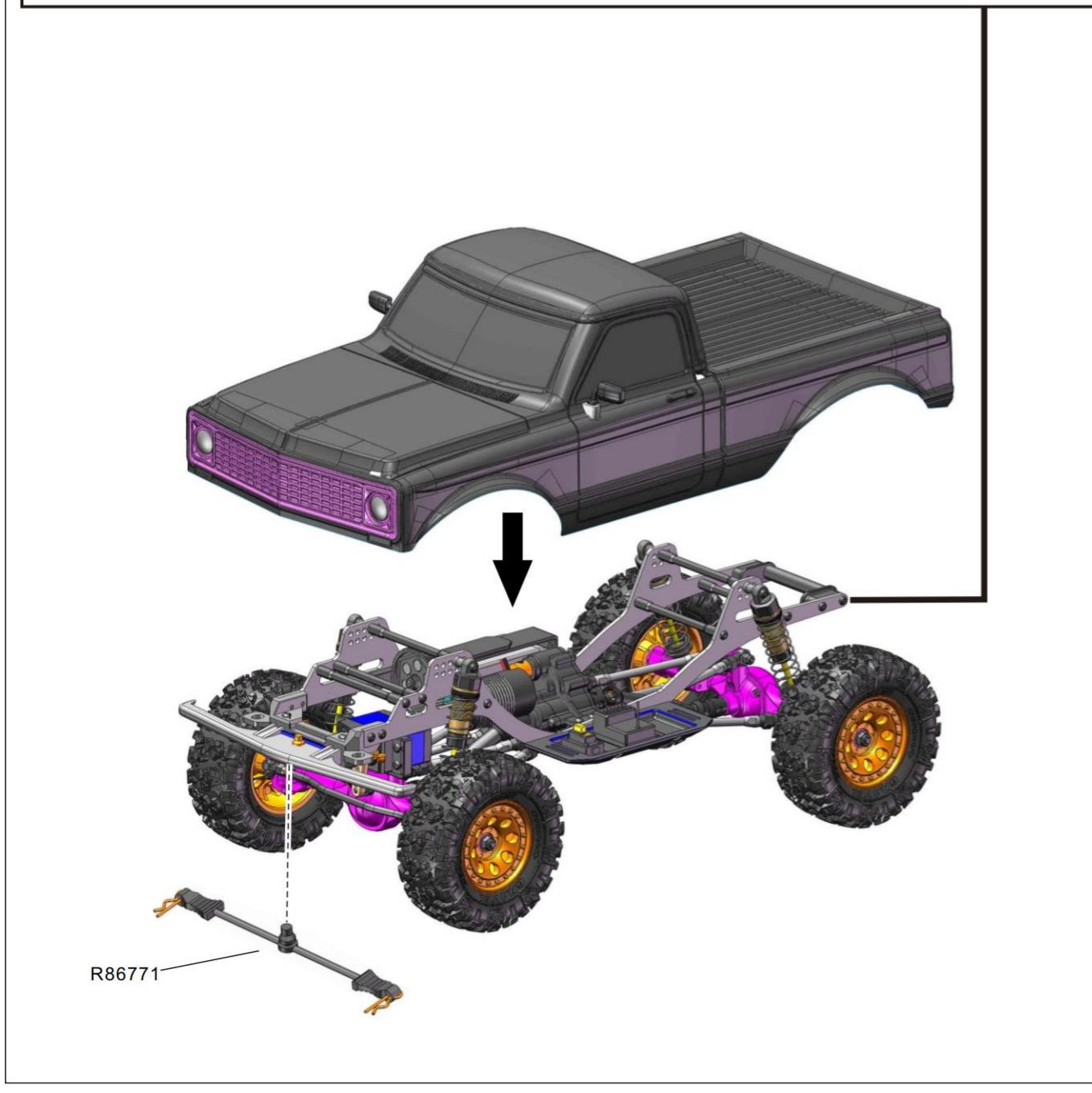
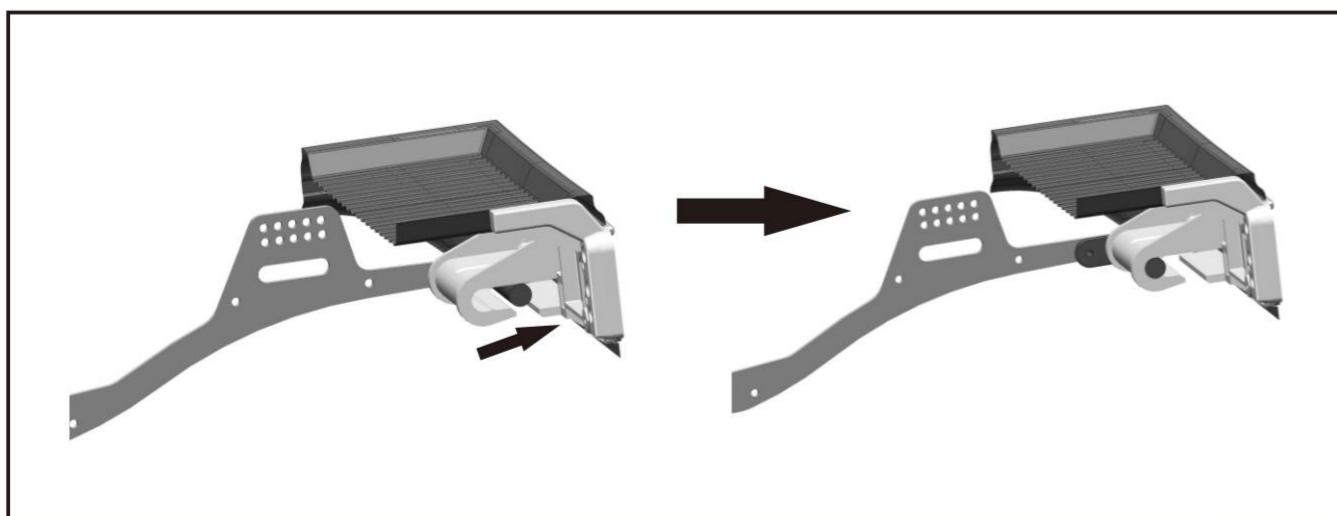
## Mounting Center Gear Box



**Front Axle Box Assembly****Rear Axle Box Assembly****Shock Absorber Assembly****Shock Absorber Installation****Receiver / Magnetic Adapter Cable Assembly**

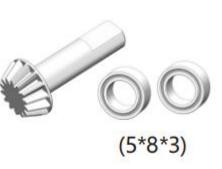
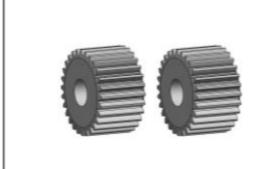
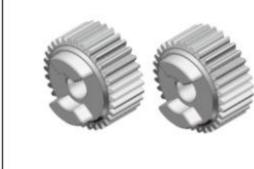
**Wheel Complet To Vehicle****Body Decorations****Headlight/Taillight Installation****Body Decorations**

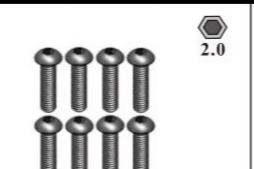
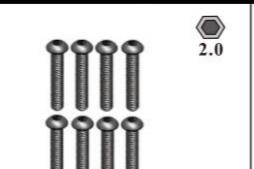
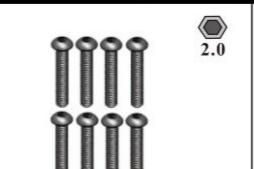
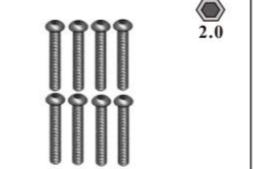
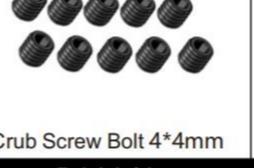
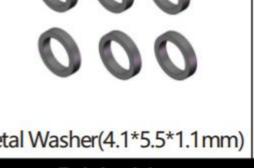
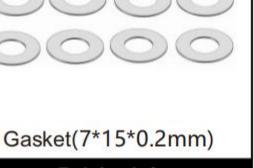
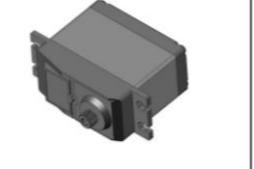
Pre-Assembled PC Body Assembly



Spare Part

R86908 (AL.) Front Axle Box(Pink)	R86909 (AL.) Rear Axle Box(Pink)	R86818 (AL.) Steering Mount(L/R)(Pink)	R86910 (AL.) Front Axle Box(Black)	R86911 (AL.) Rear Axle Box(Black)
R86855 (AL.) Steering Mount(L/R)(Black)	R86878 (AL.) Chassis Mount	R86820 (AL.) Motor Mount	P860134 (Copper.) Servo Mount	R86822 (AL.) 64T Gear Mount
R86777 A B C D Transmission	R86823 A B Side Plate + Rear Body Holder + Motor Mount + Front Bumper + Front Bumper Mount	R86474 Link Ends		
R86824 Front Headlight Lenses	R86708 2.8*1.9mm 8*1mm Shock Repair Kit(completed car)	R86439-S Wheel Rim (Electroplated Silver)	R86881 Wheel Complete	
R86880 Tire W/Foam	PC Body+Sticker R86829-0(Clear) R86829-1(Blue) R86829-2(Pink)	Pre-Assembled PC Body P86487-1(Blue) P86487-2(Pink)		
R86830 Bodyshell Function Accessories	R86879 Chassis Rails	R86825 Shock Absorbers(Pink)		
R86856 Shock Absorbers(Red)	R86832 CVD Driveshaft	R86833 Joint Link	R86834 Front Upper Link 50mm	R86835 Front Lower Link 64.6mm

Spare Part				
R86836	R86837	R86838	R86749	R86839
				
Rear Upper Link 67.3mm	Rear Lower Link 82mm	Servo link (48.5mm) + Steering Link	Crown Gear (64T)	Pinion Gear(14T)
R86713	R86239	R86675	R86674	R86798
				
Drive Gear 14T	Crown Gear 38T	Gear(15T)	Gear(20T)	Gear(28T)
R86676	R86677	R86840	R86418	R86799
				
Gear(30T)	Gear(32T)	CVD Drive Shaft	Rear Shaft (96.5mm)	Gear Shaft(19mm)
R86800	R86801	R86802	R86803	R86804
				
Gear Shaft(20T)	Gear Shaft(21.9mm)	Gear Shaft(30.1mm)	Gear Shaft(50.6mm)	Gear Shaft(M4)
R86842	R86428	R86714	R86047	R86430
				
Transfer Joint Shaft	Ball Bearing 4*8*3	Ball Bearing 5*8*3	Ball Bearing 5*10*4	Ball Bearing 7*11*3
R86048	R86049	R86762	R86051	R86052
				
Ball Stand 5. 9mm(Short)	Ball Stand 5. 9mm(Long)	Shock Balls	Nylon Nut M3	Flange M4 Lock Nut
R86529	R86380	R86381	R86058	R86059
				
Button Head Self-tapping 2*6mm	Button Head 2.5*6mm	Button Head 2.5*8mm	Button Head 3*6mm	Button Head 3*8mm

Spare Part				
R86060	R86061	R86062	R86063	R86064
				
Button Head 3*10mm	Button Head 3*12mm	Button Head 3*14mm	Button Head 3*16mm	Button Head 3*18mm
R86065	R86843	R86066	R86068	R86069
				
Button Head 3*20mm	Button Head 3*23mm	Button Head 3*25mm	Flat Head 3*8mm	Flat Head 3*14mm
R86137	R86844	R86370	R86530	R86053
				
Cap Head 2*5mm	Cap Head 2*6mm	Cap Head 2*10mm	Step Screws 4*11.5mm	Crib Screw Bolt 3*3mm
R86054	R86696	R86845	R86846	R86847
				
Crib Screw Bolt 4*4mm	Gasket(5.1*6.5*3)	Metal Washer(4.1*5.5*1.1mm)	aluminium washer (3*5.5*1mm)	Gasket(7*15*0.2mm)
R86848	R86420	R86768	R86849	R86594
				
Wheel Hex. + Crib Screw Bolt 3*3mm (AL.)	King Pin Bushing	clip kits(2.8*8*0.25mm)	Pin(2*7.5*2*9.8*1.5*10mm)	E-Clips (2. 3mm/4mm)
R86076	R86541	R86850	R86851	R86771
				
Steering Servo 15KG	Servo Horn(25T)	Brushless System (ESC+Motor 2-IN-1)	Magnetic Adapter Cable	Body Clip Mount
R86024	MG6-BS	R6D-BS	R86702	R86875
				
Linght Clip	Radio	Receiver	Linght Set	Gasket(3*6.5*0.5mm)



## PRODUCT QUALIFICATION CERTIFICATION

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

The product conforms to technical requirements of export safety regulations.

Factory Address: Huang Jiang Town, Dong Guan City, Guang Dong Province, China  
Website: [www.RGT-RACING.Com](http://www.RGT-RACING.Com)

Production Date: refer to packing instruction