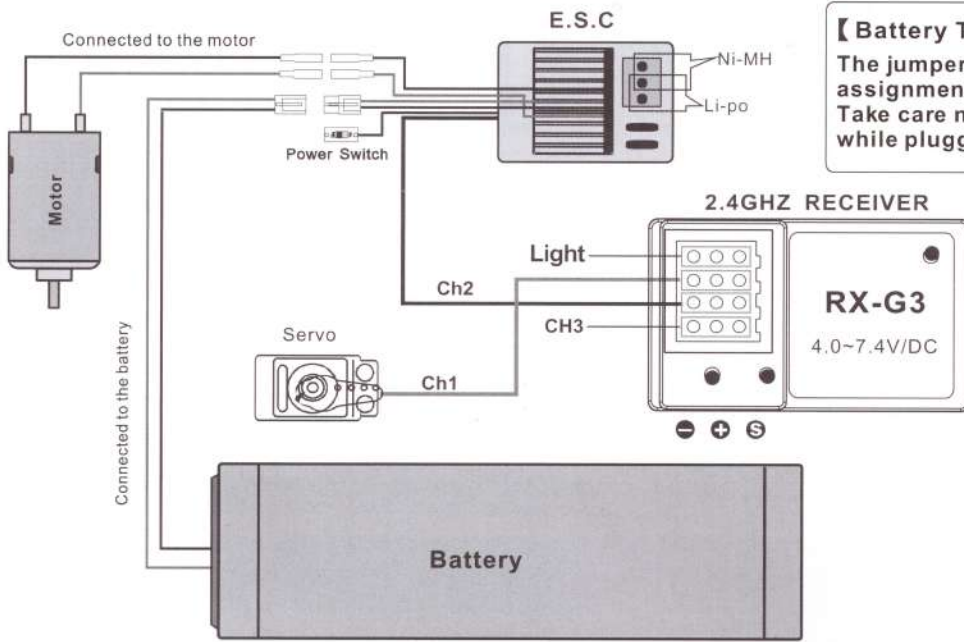


## Scheme Of Installation

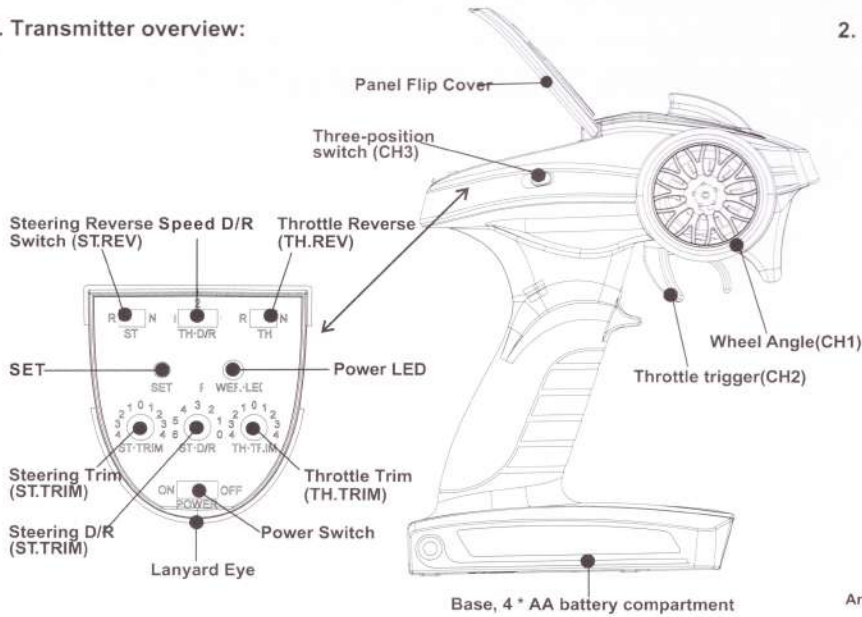


### 【 Battery Type Selection】

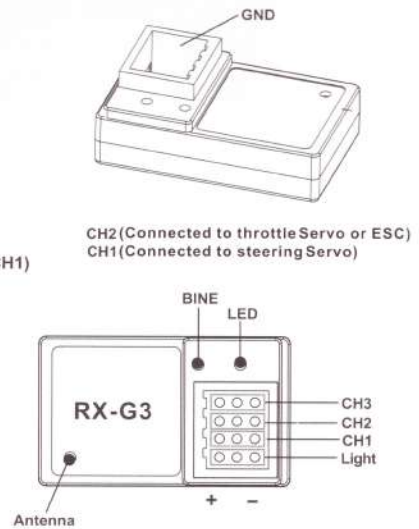
The jumpers are applied to fulfill the assignment.  
Take care not to damage the jumpers while plugging or unplugging them.

## 2.4GHZ Radio System (NO.:T-8196A)

### 1. Transmitter overview:



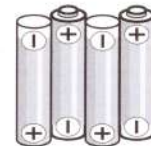
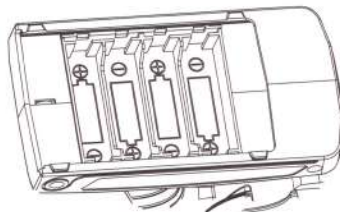
### 2. Receiver overview



### 3. Transmitter Battery Installation

**Battery Type: AA**  
**Battery Installation:**

- 1). Open the battery compartment cover.
- 2). Insert 4 fully-charged AA batteries into the compartment.  
Make sure that the battery makes good contact with the battery compartment's contacts.
- 3). Replace battery compartment cover.  
Low battery alarm: When the battery is lower than 4.4v, the G.LED on the panel will flash slowly



Batteries: 4 x 1.5 V "AA"  
(not included)




The battery socket is equipped with anti-reverse insertion function, wrong polarity connection will not burn the transmitter.

## 4. Power On

Follow the steps below to turn on the transmitter:


- 1.) Check to make sure that that battery is fully charged and installed correctly.
- 2.) Toggle the switch to the [ON] position. When active the R.LED will be lit.
- 3.) Connect the receiver to power.

 For safety always power on the transmitter before the receiver.

## 5. Binding

The transmitter and receiver have already been bound at the factory. However if the receiver needs to be replaced or additional receivers bound follow these steps:

- 1.) Turn off transmitter, power on the receiver and the receiver indicator will flash slowly;
- 2.) Press receiver Bind key for 2 seconds, then release the button, the indicator will flash fast;
- 3.) Power on transmitter, once the light flash, indicating entering the binding process
- 4.) Once binding is successful, the LED of receiver and transmitter will stop flashing.

 applicable to the T-8196A transmitter and the RX-G3 receiver.



## 6. Beginner Mode

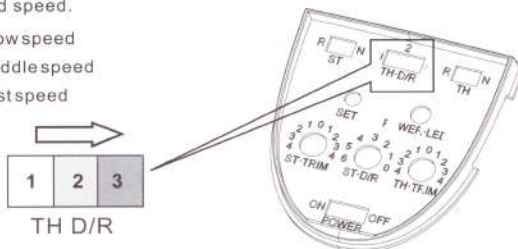
Beginner mode is designed for people new to the hobby.

Beginner mode Use the speed switch to control the forward speed.

Gear 1: slow speed

Gear 2: middle speed

Gear 3: fast speed



## 7. Fail-safe Setting

This transmitter has the fail-safe function.

The fail-safe settings follow:

- 1). Ensure the transmitter and receiver successfully binding, and keep in working;
- 2). Control the throttle channel and make the servo or ESC enter braking state, then hold;
- 3). Press the transmitter set key twice, and the receiver and transmitter will flash three times and remain on, indicating the binding is successful;
- 4). To release the fail-safe, put all channel of the transmitter in neutral position and press twice.

## 8. Power OFF

Follow the steps below to turn off the system:

- 1). Disconnect the receiver power.
- 2). Toggle the transmitter's power switch to the off position.



Make sure to disconnect the receiver power before turning of the transmitter.  
Failure to do so may lead to damage or serious injury.



**Warning**  
This product is only for 14 years old or above

Thank you for purchasing our product, an ideal radio system for beginners or experienced users. In order to ensure your safety, and the safety of others, read this manual carefully before using This product.

## 9. System Functions

### 1). Channel Description

The transmitter outputs a total of 3 channels, which are allocated as follows:

CH1 : Steering Wheel

CH2 : Throttle Trigger

CH3 : Three-position Switch

### 2). Channel Reverse

This function is used to adjust each channel's direction of movement in relation to its input.

The ST.REV / TH.REV switches are the reverse buttons for CH1 and CH2. If the switch is right it indicates reverse, and the left indicates normal.

### 3). Trims

The ST.TRIM is the trims for CH1 (steering),

TH.TRIM is the trims for CH2(throttle).

Adjustment range: -120us- + 120us,  
each step is 4us;

ST.TRIM Clockwise / TH.TRIM Clockwise:  
increase adjustment step

ST.TRIM Anti Clockwise / TH.TRIM ANTI Anti Clockwise :  
Decrease adjustment step.

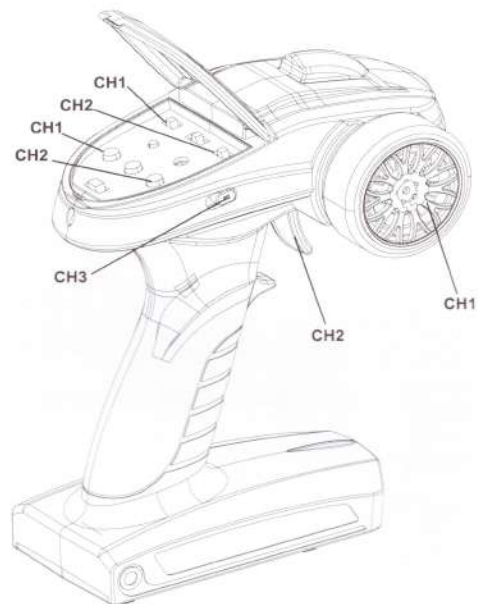
### 4). Steering D/R

ST.D / R is for servo travel adjustment

Adjustment range: 0-120%(the default is 100%), the step is 5%.

ST.D / R Clockwise: increase servo travel.

ST.D / R Anti Clockwise: decrease servo travel.



## 10. Precautions:

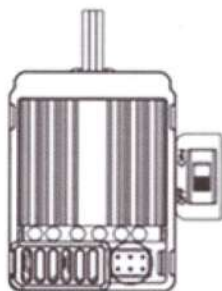
Never operate in bad weather, the radio will interfere and out of control;

Before running, keep the car or boat in static state for easy operation

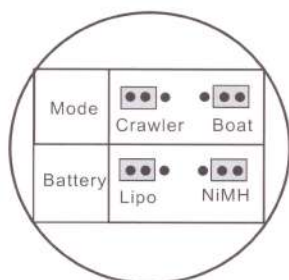
Always turn off the receiver before turning the transmitter off. Once wrong, the car will out of control and make accidents.

When power on the transmitter, should not do any action on the transmitter, otherwise it will get out of control.

## User Manual of Water-Proof Brushed Speed Controller



**WP-1040-BRUSHED**



### [SPECIFICATIONS]

Model		WP-1040-BRUSHED
Cont. / Burst Current		Forward: 40A / 180A Backward: 20A / 90A
Input		2-3S Lipo, 5-9 Cells NiMH
Cars Applicable		1:10 on-road, off-road 1:10 Crawler, Tank & Boat
Motor Limit	2S Lipo or 5-6 cells NiMH	540 or 550 size motor ≥12T RPM < 30000 @7.2V
	3S Lipo or 7-9 cells NiMH	540 or 550 size motor ≥18T RPM < 20000 @7.2V
Resistance		FWD: 0.002 Ohm; BWD: 0.004 Ohm
Built-in BEC		2A/5V (Linear mode BEC)
Dimension & Weight		46.5mm*34mm*28.5mm 65g

### FEATURES

- \*. Water-proof and dust-proof for all weather races.
- \*. Small size with built-in capacitor module.
- \*. Automatic throttle range calibration, easy to use.
- \*. Multiple protections: Low voltage cut-off protection for Lipo or NiMH battery / Over-heat protection / Throttle signal loss protection.
- \*. Easily programmed with the jumpers.



**Attention: The incorrect polarity will damage the ESC immediately. If the motor runs in the opposite direction, please swap these two wire connections.**

### [PROTECTION FUNCTIONS]

1. Low voltage Cut-off (LVC) protection: If the voltage of battery pack is lower than the threshold for 2 seconds, the ESC will enter the protection mode.  
When the car stops, the red LED blinks to indicate the low voltage cut-off protection has been activated.

**Table A: LVC protection for WP-1060-BRUSHED, (F/B/R or F/B mode).**

2S Lipo	3S Lipo	4S Lipo	5-9 cells NiMH
Output reduces 50% at 6.5V Output cuts off at 6.0V, cannot be recovered	Output reduces 50% at 9.75V Output cuts off at 9.0V, cannot be recovered	Output reduces 50% at 13V Output cuts off at 12V, cannot be recovered	Output reduces 50% at 4.5V Output cuts off at 4.0V, cannot be recovered

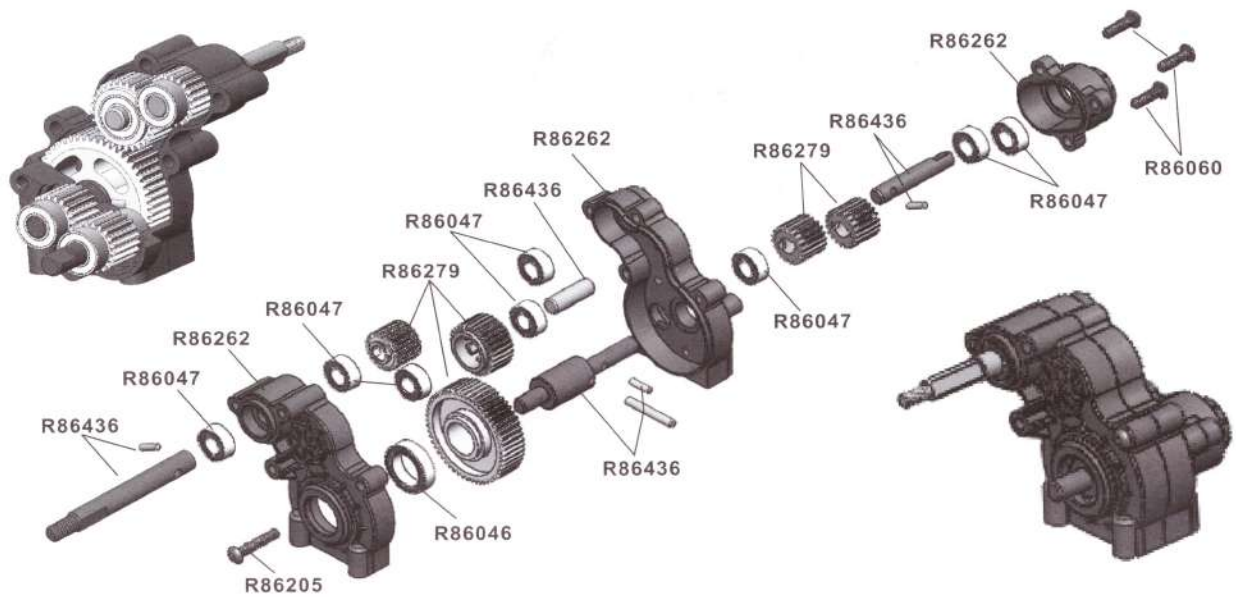
2. Over-heat protection: When the internal temperature of the ESC is higher than 100 Celsius degree or 212 Fahrenheit degree for 5 seconds, the ESC will reduce and cut off the output power.  
When the car stops, the red LED blinks to indicate the over-heat protection has been activated. If the ESC cools down to 80 Celsius degree (176 Fahrenheit degree) the output power is recovered to normal state.
3. Throttle signal loss protection: The ESC will cut off the output power if the throttle signal has been lost for 0.1 second.  
The Fail Save function of the radio system is strongly recommended to be activated.

### [TROUBLE SHOOTING]

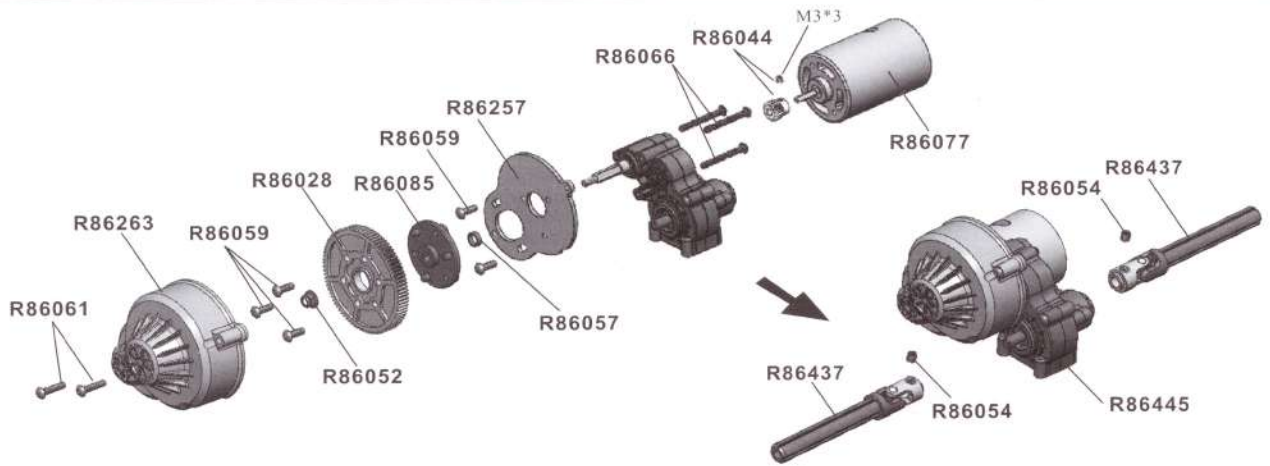
Trouble	Possible Reason	Solution
After power on, motor cant work, no sound is emitted, and LED is off.	The ESC doesnt get its working voltage; Connections between battery pack and ESC are broken.	Check the battery wires connection or replace the defective connectors.
	Switch is damaged.	Replace the switch.
After power on, motor cant work ; red LED blinks.	Throttle signal is abnormal.	Check the throttle wire connection; make sure it is plugged into the throttle channel of the receiver.
	Automatic throttle range calibration is failed.	Set the TRIM of throttle channel to 0 or turn the knob to its neutral position.
The car runs backward while giving throttle. (The motor runs in the opposite direction)	The wire connections between ESC and the motor need to be changed.	Swap two wire connections between the ESC and the motor.
The car cant go backward.	The jumper position is wrong.	Check the jumper and plug it to the correct position.
	The neutral point of throttle channel is changed or drifted.	Set the TRIM of throttle channel to 0 or turn the knob to its neutral position.
The car cant go forward, but can go backward.	The direction of throttle channel is not correct.	Reset the direction of throttle channel from original NOR to REV or from original REV to NOR.

Please review the ESC manual for more details.






















## DRIVE GEAR SET



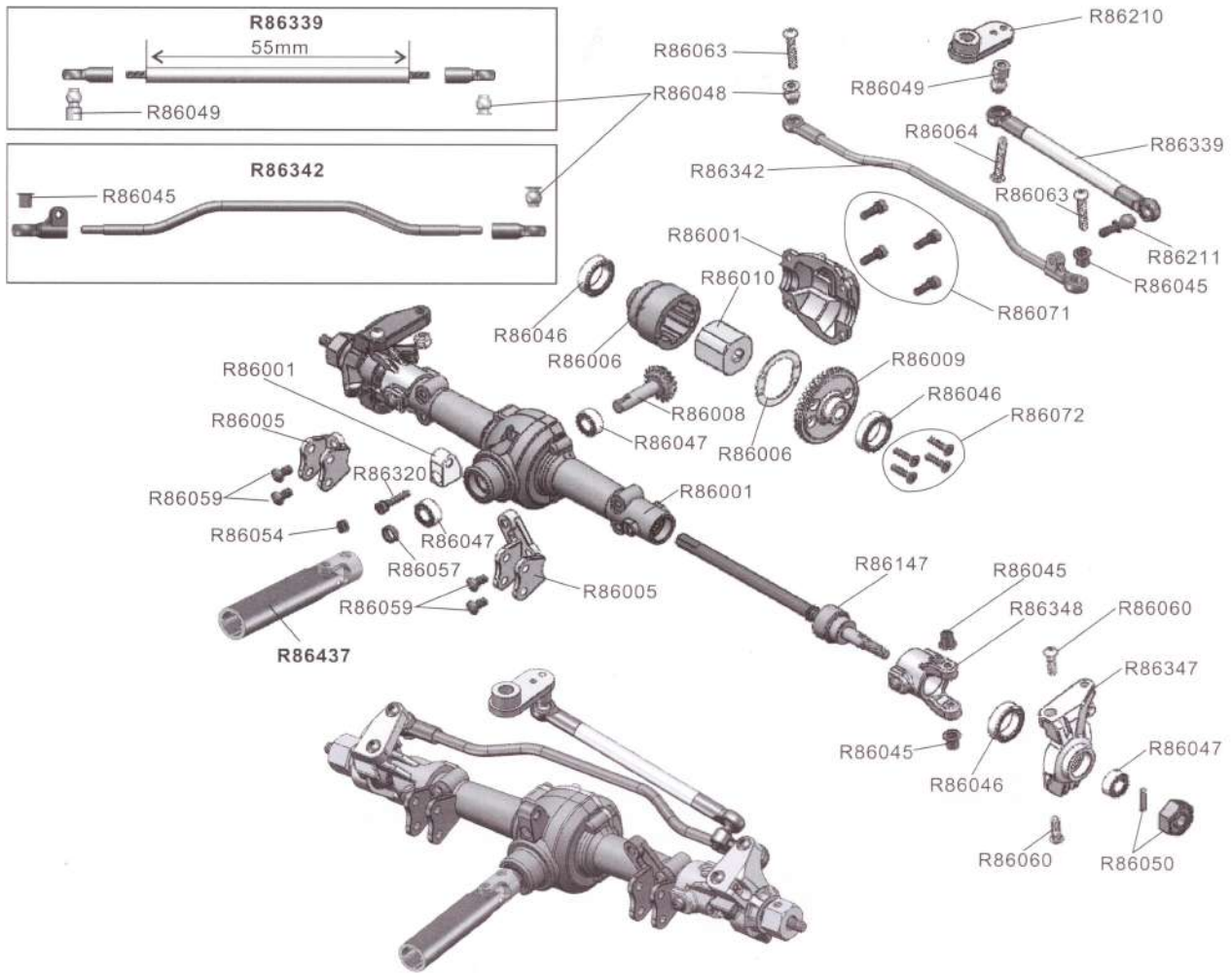
## TRANSMISSION ASSEMBLY



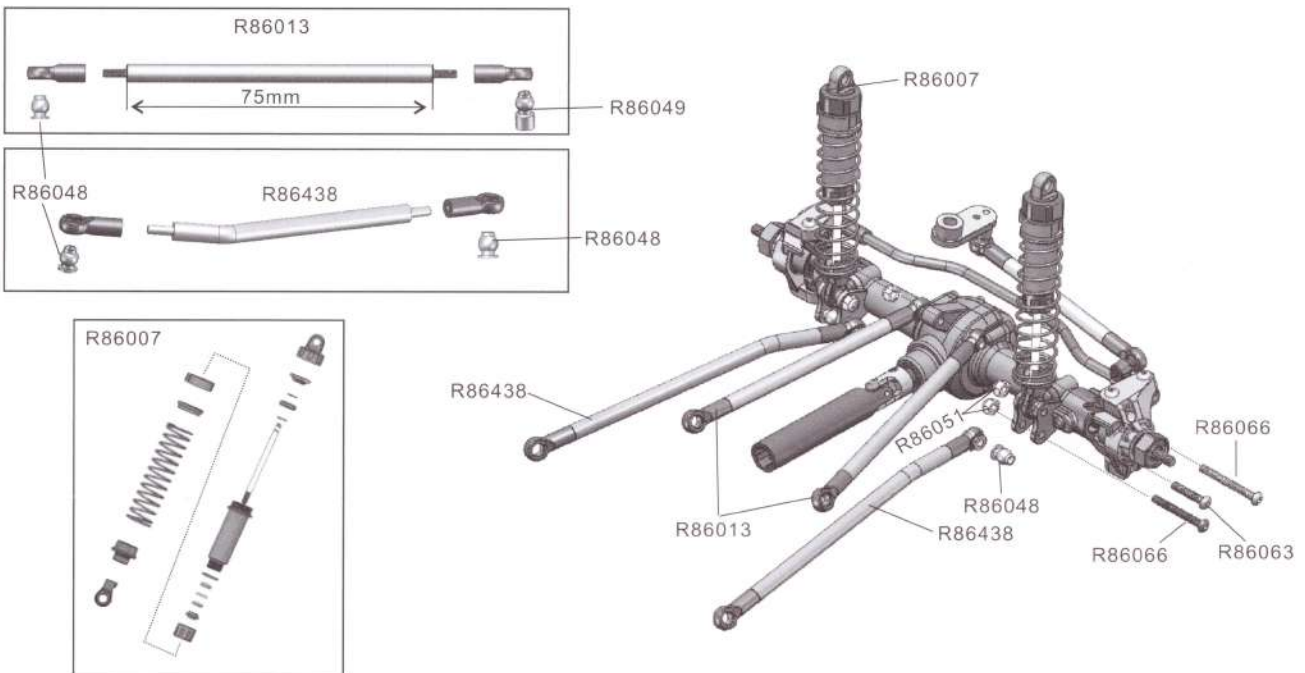
## Spare Part

<b>R86262</b>  Distribution Housing	<b>R86279</b>  (20T*3P+28T+53T) Gear Set	<b>R86263</b>  Motor Cover	<b>R86437</b>  Univrsal Drive Dogbone	<b>R86436</b>  Gear Shaft Set	<b>R86047</b>  $\phi 10 * \phi 5 * \phi 4$ Ball Bearing	<b>R86046</b>  $\phi 15 * \phi 10 * 4mm$ Ball Bearing
<b>R86044</b>  Motor Gear (14T)	<b>R86077</b>  (RC540 -20T)	<b>R86257</b>  Motor Mount	<b>R86028</b>  Main Gear set (87T)	<b>R86085</b>  Gear Mount	<b>R86052</b>  Flange Nut M4	<b>R86054</b>  Grub Hex Screw M4*4
<b>R86059</b>  Button Head 3*8	<b>R86060</b>  Button Head 3*10	<b>R86061</b>  Button Head 3*12	<b>R86205</b>  Button Head 3*15	<b>R86066</b>  Button Head 3*25	<b>R86057</b>  Gasket (6,8*5*2)	<b>R86445</b>  Transmission

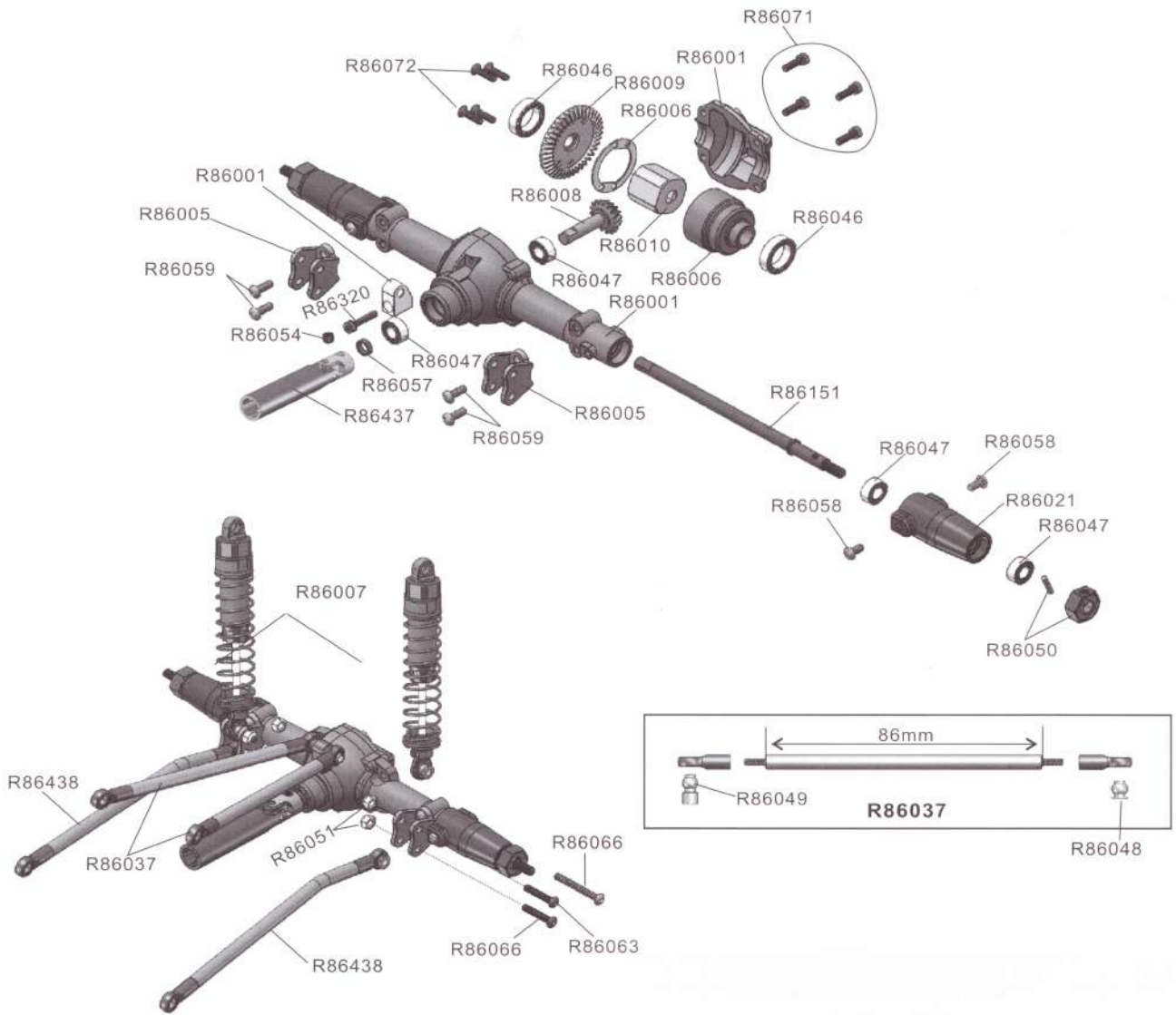
## FRONT DRIVE SYSTEM ASSEMBLY



## FRONT SUSPENSION ASSEMBLY



# REAR DRIVE SYSTEM ASSEMBLY



## Spare Part

<b>R86437</b>  Universal Drive Dogbone	<b>R86046</b>  $\phi 15 * \phi 10 * 4 \text{mm}$ Ball Bearing	<b>R86047</b>  $\phi 10 * \phi 5 * \phi 4 \text{mm}$ Ball Bearing	<b>R86001</b>  Gear Box/Housing	<b>R86147</b>  CVD Drive Shaft
<b>R86151</b>  Rear Shaft	<b>R86006</b>  Differential Box	<b>R86008</b>  Drive Gear	<b>R86009</b>  Crown Gear(40T)	<b>R86010</b>  Solid Axle Hub

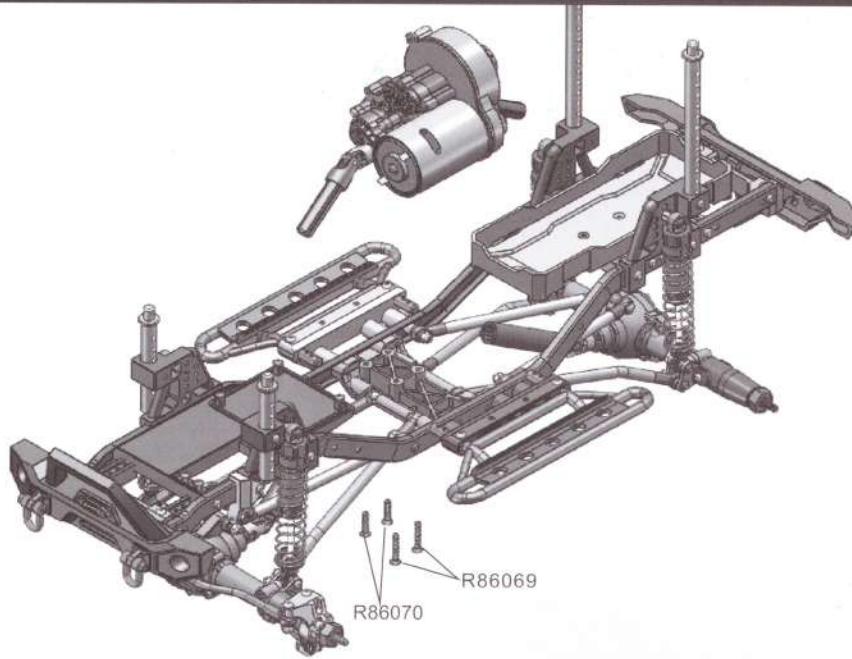
## Spare Part









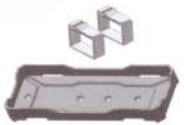
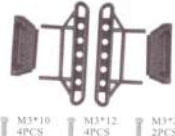













<b>R86348</b>	<b>R86347</b>	<b>R86045</b>	<b>R86057</b>	<b>R86050</b>
Steering Hubs(L/R)	Steering Hub Carriers(L/R)	King Pin Bushing	Gasket	Wheel Hex
<b>R86005</b>	<b>R86007</b>	<b>R86037</b>	<b>R86013</b>	<b>R86438</b>
Link Mount Set	Shock Absorbers	Rear Upper Link (86 mm)	Front Upper Link (75mm)	Lower Link (F/R)
<b>R86342</b>	<b>R86339</b>	<b>R86021</b>	<b>R86048</b>	<b>R86049</b>
Steering Link	Servo link	Rear Straight Axle	Ball Stand 1 Ø5.9	Ball Stand 2 Ø5.9
<b>R86210</b>	<b>R86054</b>	<b>R86211</b>	<b>R86059</b>	<b>R86060</b>
Servo Horn	Grub Hex Screw M4*4	Ball Stand Ø5.9	Button Head 3*8 2.0	Button Head 3*10 2.0
<b>R86066</b>	<b>R86063</b>	<b>R86058</b>	<b>R86072</b>	<b>R86320</b>
Button Head 3*25 2.0	Button Head 3*16 2.0	Button Head 3*6 2.0	Flat Head 2.5*10 1.5	Cap Head 2.5*11 2.0
<b>R86071</b>	<b>R86051</b>			
Cap Head 2.5*8 2.0	Nylon Nut M3			



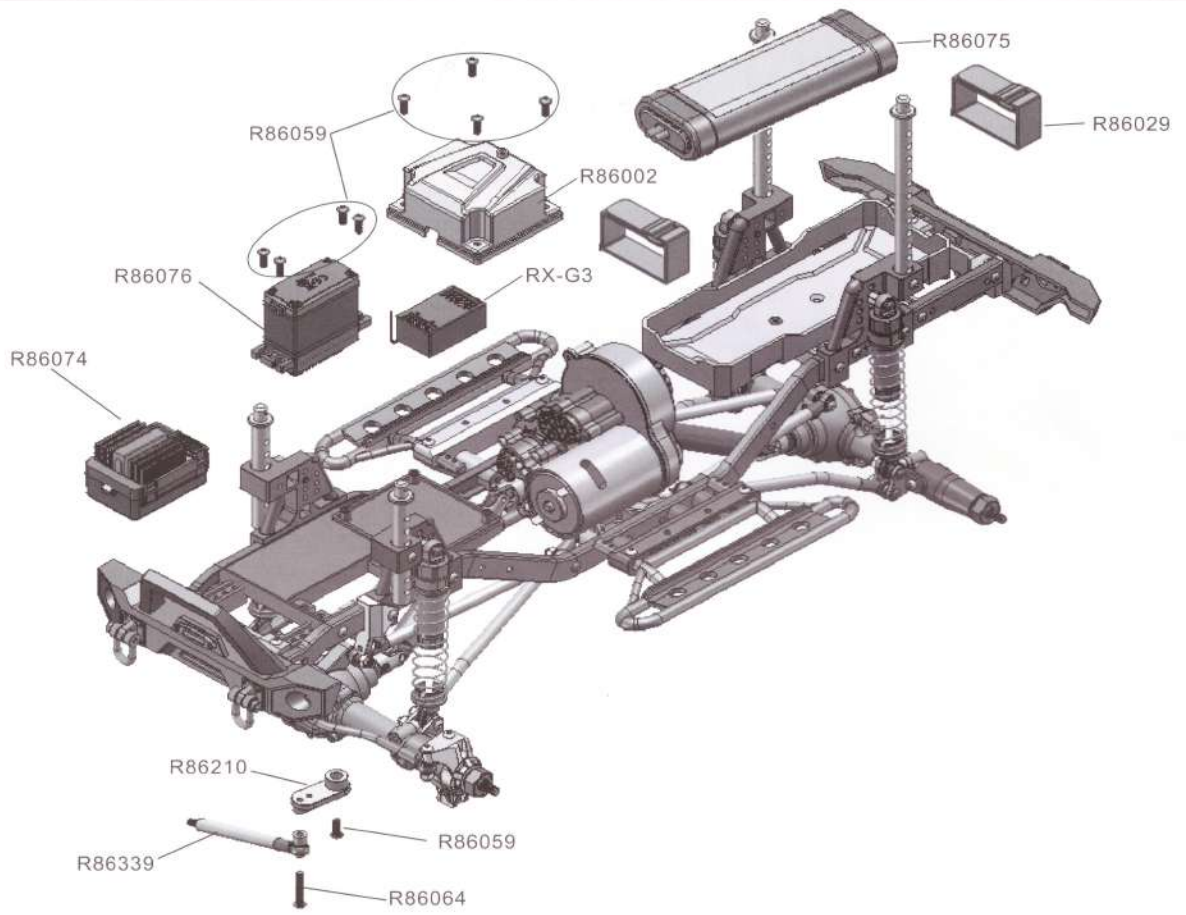


# TRANSFER CASE ASSEMBLY

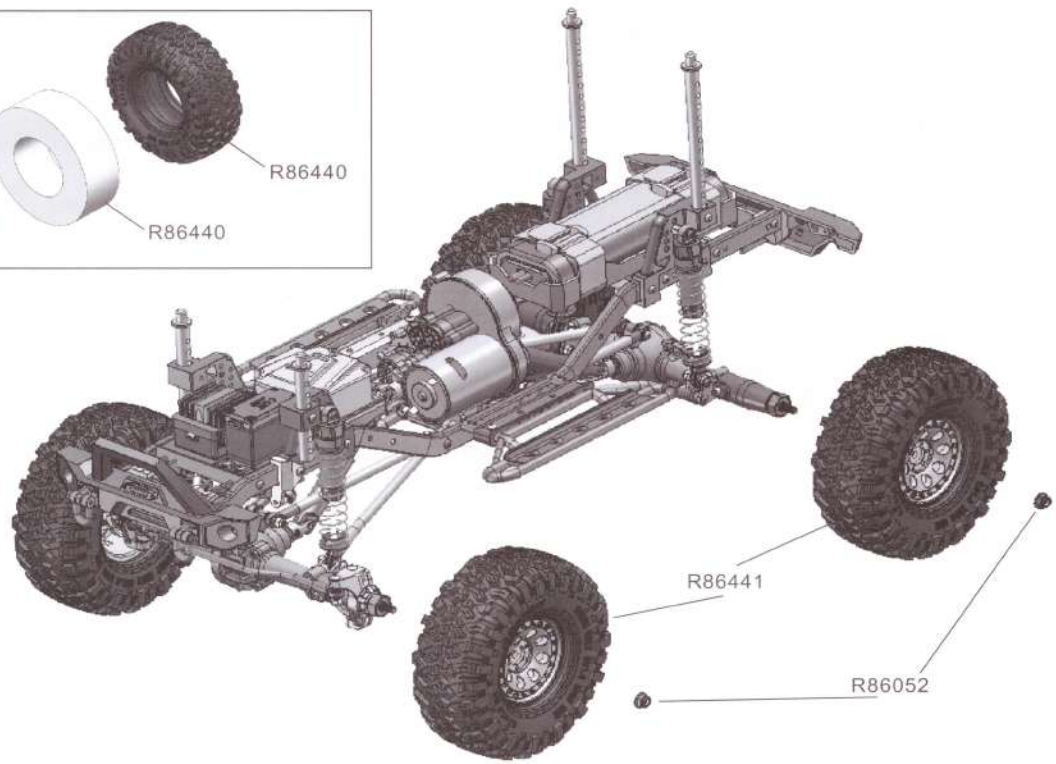


<b>R86234</b>  Front Bumper	<b>R86235</b>  Rear Bumper	<b>R86018</b>  Boad Post (F/R)	<b>R86233</b>  Bumper Mount	<b>R86002</b>  Servo/ESC/ Receiver Mount
<b>R86016</b>  Chassis Plate	<b>R86017</b>  Body Plates(F/R)	<b>R86015</b>  Battery Box Mounts	<b>R86029</b>  Battery Tray+Batter Strap	<b>R86143</b>  Foot Plate Set M3*10 4PCS M3*12 4PCS M3*20 2PCS
<b>R86059</b>  Button Head 3*8	<b>R86060</b>  Button Head 3*10	<b>R86012</b>  Panhard Bar(51.8mm)	<b>R86061</b>  Button Head 3*12	<b>R86040</b>  Chassis Rails
<b>R86058</b>  Button Head 3*6	<b>R86062</b>  Button Head 3*14	<b>R86026</b>  Column Head 3*12	<b>R86064</b>  Button Head 3*18	<b>R86065</b>  Button Head 3*20
<b>R86068</b>  Flat Head 3*8	<b>R86069</b>  Flat Head 3*14	<b>R86070</b>  Flat Head 3*20		














## ASSEMBLE ELECTRIC SYSTEM



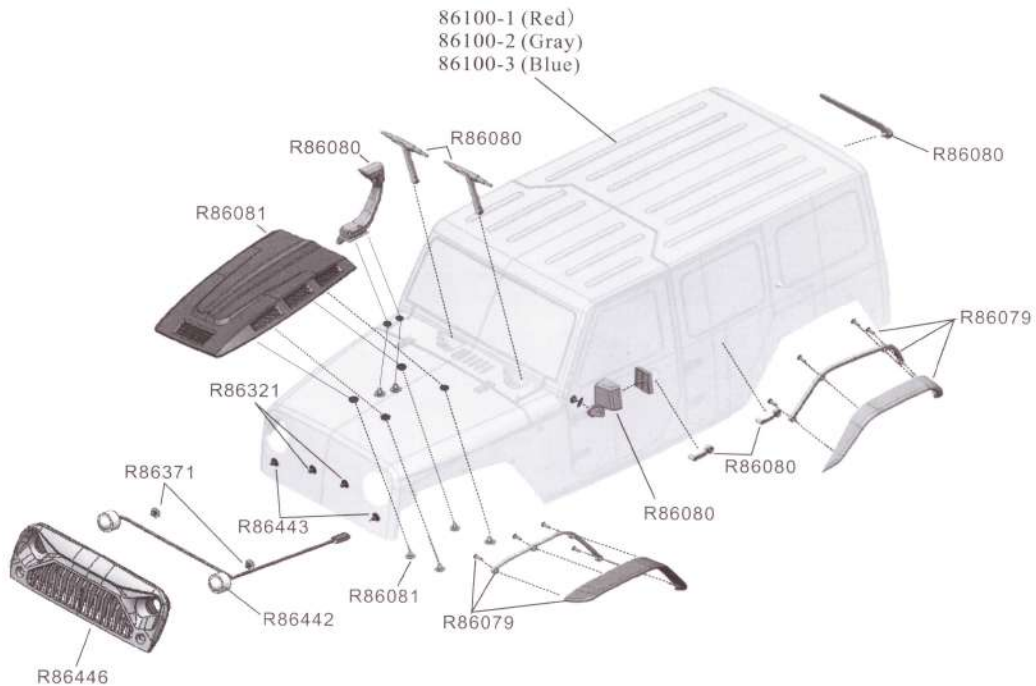
## WHEELS



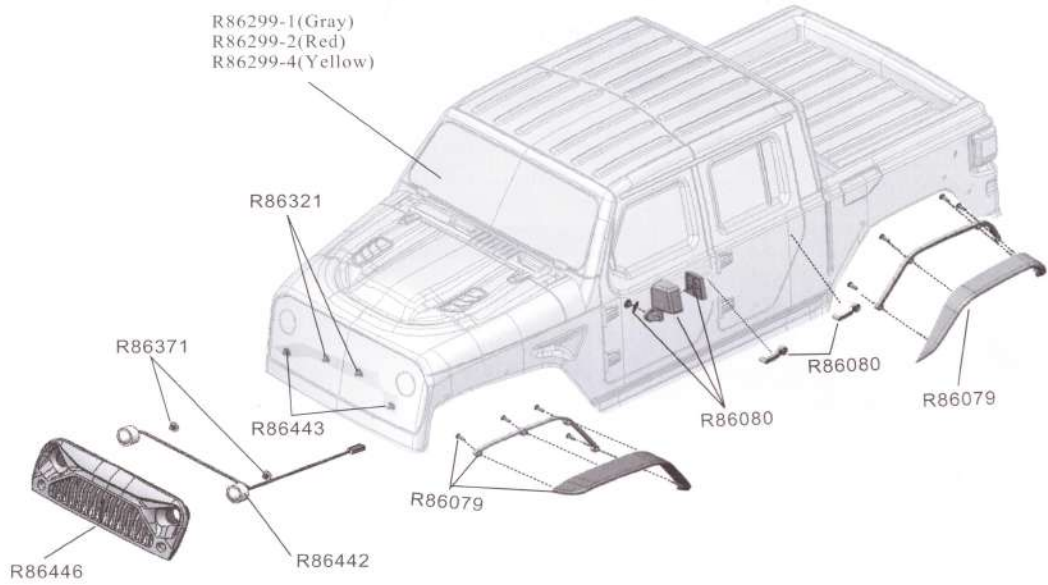
## Spare Part

T-8196A	RX-G3	R86076	R86075	R86074
 Radio	 Receiver	 Servo-15KG	 Battery (7.2v2000mAh)	 ESC -40A
R86210	R86439	R86440	R86441	R86064
 Servo Horn	 Wheel Rim	 Tire W/Foam	 Wheel Complete	 Button Head 3*18
R86059	R86052	R86339		
 Flat Head 3*8	 Flange M4 Lock Nut	 Servo link		


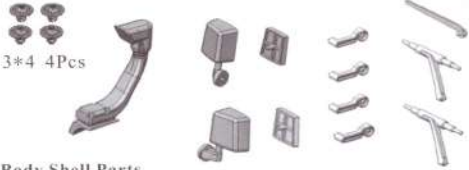



## BODY(ROCK CRUISER)



# BODY(DEFIER)



## Spare Part

<p><b>PVC Body</b></p> <p>86100-1 (Red) 86100-2 (Gray) 86100-3 (Blue)</p> 	<p><b>PVC Body</b></p> <p>R86299-1(Gray) R86299-2(Red) R86299-4(Yellow)</p> 	<p><b>PC Body</b></p> <p>P86100-0-(Clear) P86100-1 (Red) P86100-2 (Gray) P86100-3 (Blue)</p>  <p>(Option)</p>	<p><b>PC Body</b></p> <p>P86300-0(Clear) P86300-1(Red) P86300-2(Green) P86300-3(Blue)</p>  <p>(Option)</p>	<p><b>R86256</b></p>  <p>RGT Sticker</p>
<p><b>R86079</b></p>  <p>2.5*10 16Pcs</p> <p>Wheel Eyebrow</p>	<p><b>R86080</b></p>  <p>3*4 4Pcs</p> <p>Body Shell Parts</p>	<p><b>R86442</b></p>  <p>LED Body Shell Light</p>	<p><b>R86321</b></p>  <p>2.0</p> <p>Flange Head Screws 3*4</p>	
<p><b>R86444</b></p>  <p>1.5</p> <p>Button Head 2.5*10</p>	<p><b>R86081</b></p>  <p>3*4*4Pcs</p> <p>Engine Cover</p>	<p><b>R86446</b></p>  <p>3*4*2Pcs 3*4*2Pcs</p> <p>Air Grill(New)</p>	<p><b>R86371</b></p>  <p>1.5</p> <p>Button Head 2*6</p>	<p><b>R86443</b></p>  <p>2.0</p> <p>Button Head 3*4</p>

## Upgradable Optionals

<p>P860075- Caster Mounts (AL. ) (L/R)</p> 	<p>P860029 - Chassis Plate (AL. )</p> 	<p>P860018-straight axle mount (AL. )</p> 	<p>Portal Axle Box Cover (AL. ) P860002-1 (Silvery) P860002 (Red)</p> 	<p>P860005- Mount for Link (AL. )</p> 
<p>P860008- Rear Straight Axle Cover (AL. )</p> 	<p>P860039- Steering Mount</p> 	<p>P860001- Shock Absorber</p> 	<p>P860007- Sway Bar Upper Mount (AL. )</p> 	<p>P860006- Sway Bar Lower Mount (AL. )</p> 
<p>P860067- Alloy Wheel WeighSet 132g</p> 	<p>P860065- Wheel (AL. )</p> 	<p>P860066- Wheel (AL. )</p> 	<p>P860031 - Front Bumper (AL. )</p> 	<p>P860032-Rear Bumper (AL. )</p> 
<p>P860009- Front/Rear body plates (AL. )</p> 	<p>P860013- Front Bumper (AL. )</p> 	<p>P860014-CVD Drive Axle</p> 	<p><b>P860016- Roof Rack+LED</b></p> 	<p>P860017- Roof Rack</p> 
<p>P860082- Roof Rack</p>  <p>(JC only)</p>	<p>P860083- Roof Rack + LED Set</p>  <p>(JC only)</p>	<p>P860081- Roll Caya</p>  <p>(JC only)</p>	<p>68149- LED Set</p> 	<p>P860084- LED Set</p> 
<p>P86168-Snow Tires</p> 	<p>P860024-Front Snow WheelTrack</p> 	<p>P860025-Rear Snow WheelTrack</p> 	<p>R86349-Tire W/Foam</p> 	<p>68146-Light For Rear/ Front Bumper</p> 