



***CHEETAH***  
**INSTRUCTION MANUAL**



**ShenZhen Golden cheetah technologyCo.,Ltd**  
**[WWW.jlbracing.cn](http://WWW.jlbracing.cn)**

## » INTRODUCTION

Thank you for purchasing this JLB racing model. This manual contains instructions on operating and maintaining the Cheetah. Please take a moment to read through this manual to familiarize yourself with this model.

## » FEATURES

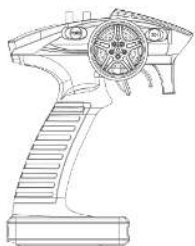
- Bright front LED
- The gear box structure is easy to repair
- All bearing throughout
- Solid metal chassis
- Sealed, tunable limited-slip differentials
- Oil-filled ultra AL shocks with progressive dual-springs
- Fully assembled and Ready-To-Race

## » PRODUCT CONTENTS

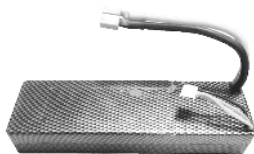
**Scale: 1/10**  
**Drive System: 4WD**  
**length: 510mm**  
**width: 390mm**  
**height: 210mm**  
**wheelbase: 310mm**



• **Transmitter**



• **Power Battery**



• **Charger**



**NOTE: not include**

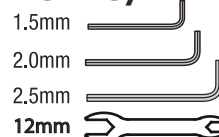
### Requires



**4 PCS AAA Batteries  
(For Transmitter)**

### Tools Included

#### Hex Key



## » IMPORTANT INFORMATION



**The Cheetah is a powerful RC car that will bring much enjoyment. However, improper use can cause damage and bodily injuries. Please read the following information carefully to avoid casualties.**

- This product is not a toy. Children under the age of 14 years old must be supervised by an adult.
- Read the instructions carefully to familiarize yourself with the model structure and its operating procedures before operating this model car. If you have never operated an RC car before, we recommend that you obtain someone experienced in operating such systems.
- Please make sure to check that the batteries inside the transmitter and the battery for the RC car are both fully charged before operating.
- Please use a spacious venue to operate this RC car. Avoid highways, bodies of water, or crowded areas.

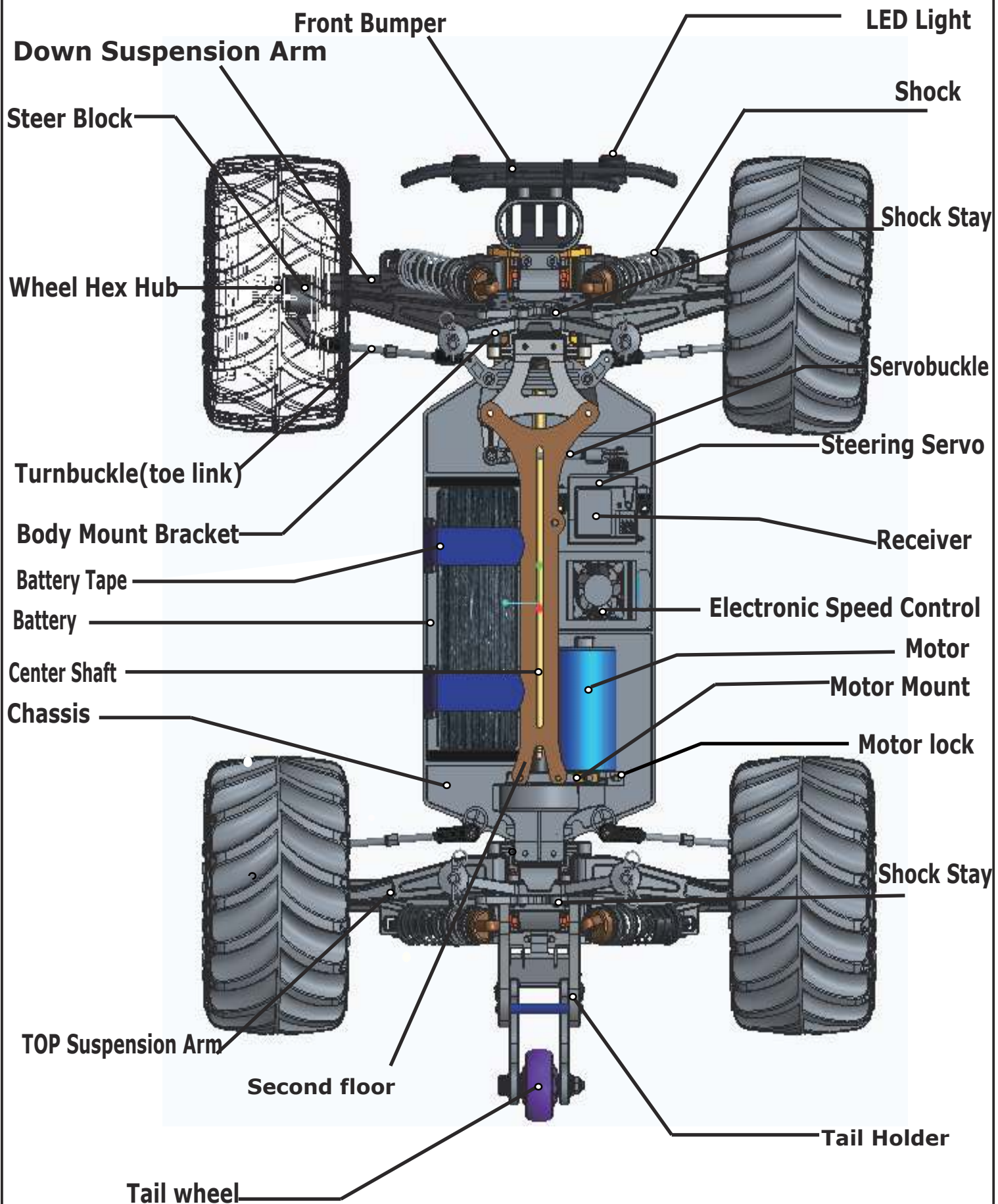
### **WARNING:**

- Make sure to plug the battery in correctly.
- To operate the RC car, make sure to turn on the transmitter (controller) first before turning on the car. When you are done operating the car, make sure to turn off the car first before the transmitter.
- Take out the battery from the car when not in use.
- Check the wires inside the car for any loose connections.
- If you are using a battery that did not come with the car's package, make sure that the battery voltage does not exceed what the ESC can handle. Ask your local retailer for more information if needed.
- Do not touch the car when operating. The ESC and motor inside the car emits high heat when in use. Avoid physical contact until the car has cooled down.

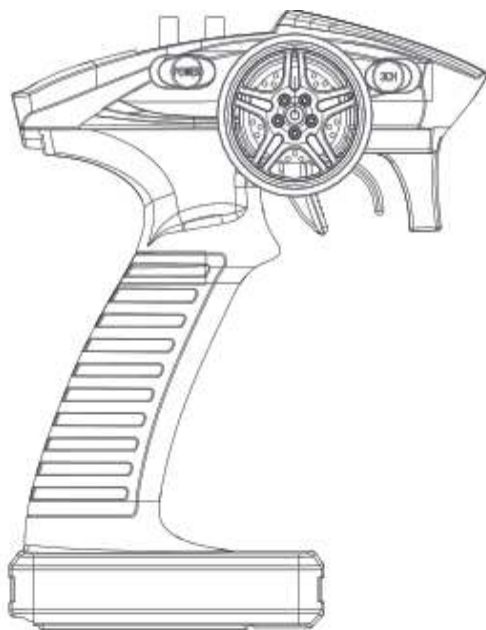
**This model can be operated with Ni-MH or Lithium Polymer batteries. Due to the battery's high energy density, please pay attention to the following information to avoid injuries or damages.**

- The battery **MUST** be removed from the RC car before charging.
- Wait for the battery to cool down before charging.
- The battery should be stored in a cool and dry place.

## »PARTS NAME







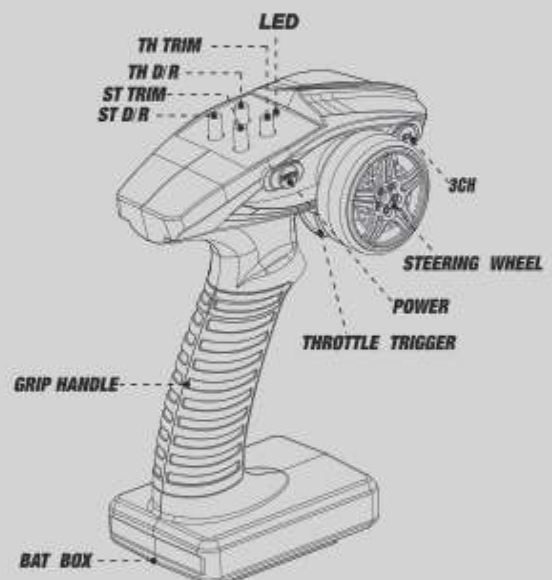
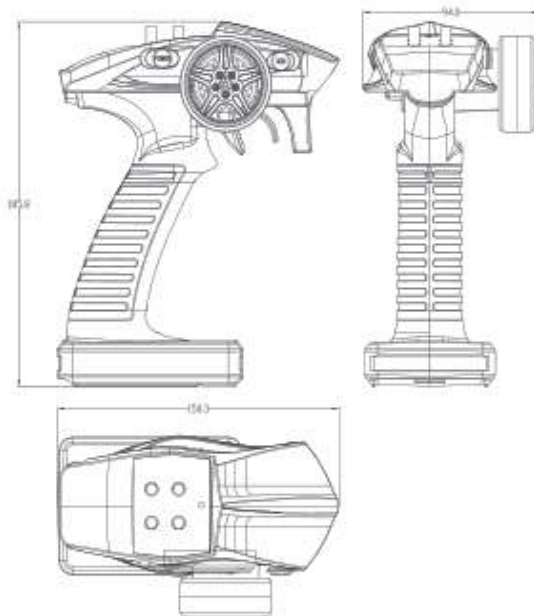
## **Install the batteries**

- (1) Remove the battery compartment cover.
- (2) Replace the used batteries with new AA size batteries.

Please replace batteries when the power indicator blinks or the buzzer beeps.

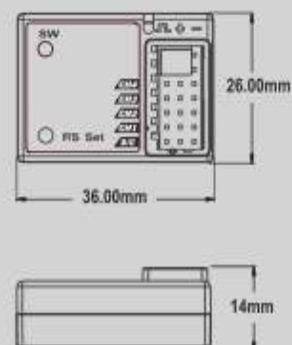
## **Function**

ITEM NO  
KTH:91900G



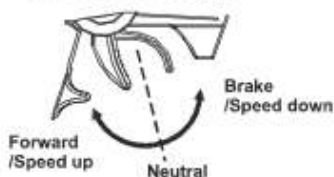
### **Connectors**

- 1:Steering servo(CH1)
- 2:Throttle servo(CH2)
- 3:CH3 servo(CH3)
- B/C:Power connector

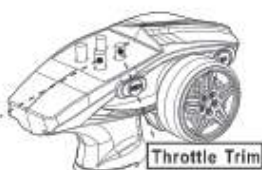


## Transmitter Adjustment

### A. Throttle Trigger



Steering Trim

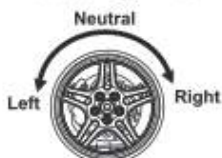


Keep the transmitter and receiver 40cm apart when operating.

Use the REV switches to reverse the steering or throttle operating direction.

1. Push the trigger forward to slow down or brake.
2. Pull the trigger backward to accelerate.

### B. Steering Wheel



Throttle Trim: Trim the throttle servo slightly when the trigger is at the neutral position.

Steering Trim: If the front wheels do not align straight, use the steering trim to adjust.

### Operating Procedure

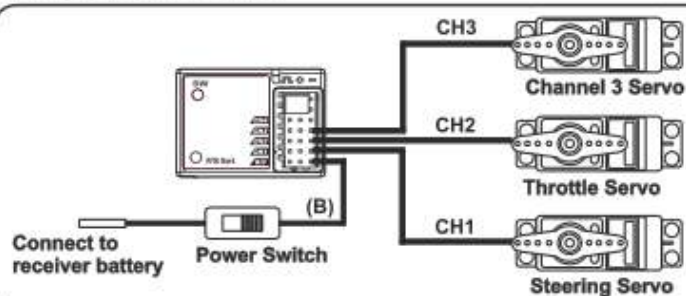
- Before operation: First turn on the transmitter, then the receiver. Lastly, connect the drive battery to the control unit.
- After operation: Disconnect the battery from the control unit. Turn the receiver off, and then the transmitter.

## Fail Safe Function Setting

1. Set the TH, ST switches to the normal position.
2. Turn on the transmitter and receiver.
3. Press the F/S SET button, the LED on the receiver should start flashing rapidly.
4. Put the throttle trigger at the brake position, press the F/S SET button, the LED should become solid.
5. For electric model, put the throttle trigger at the stop position when you are making the setting.

## Receiver and servo connection

### Gas powered model



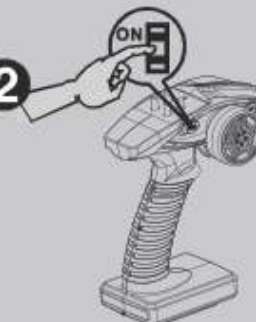
## Binding the transmitter and receiver

1



1. turn on the receiver power. Press the SW switch. The receiver's LED should start flashing.

2



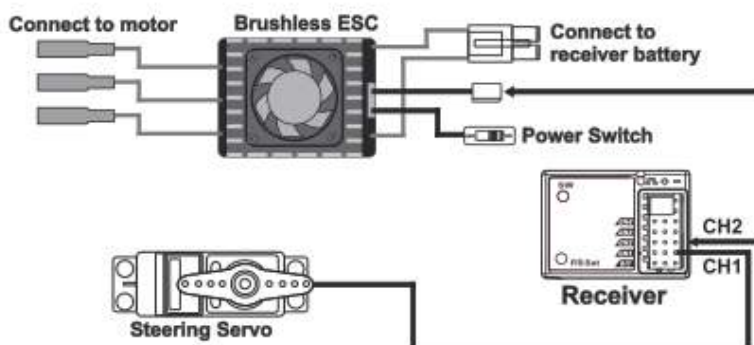
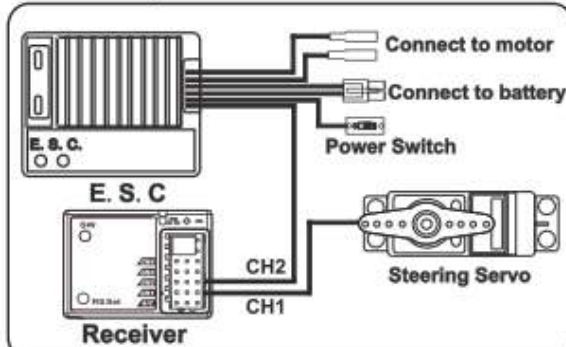
2. Switch on the transmitter, then pull the Bind connector out of the receiver.

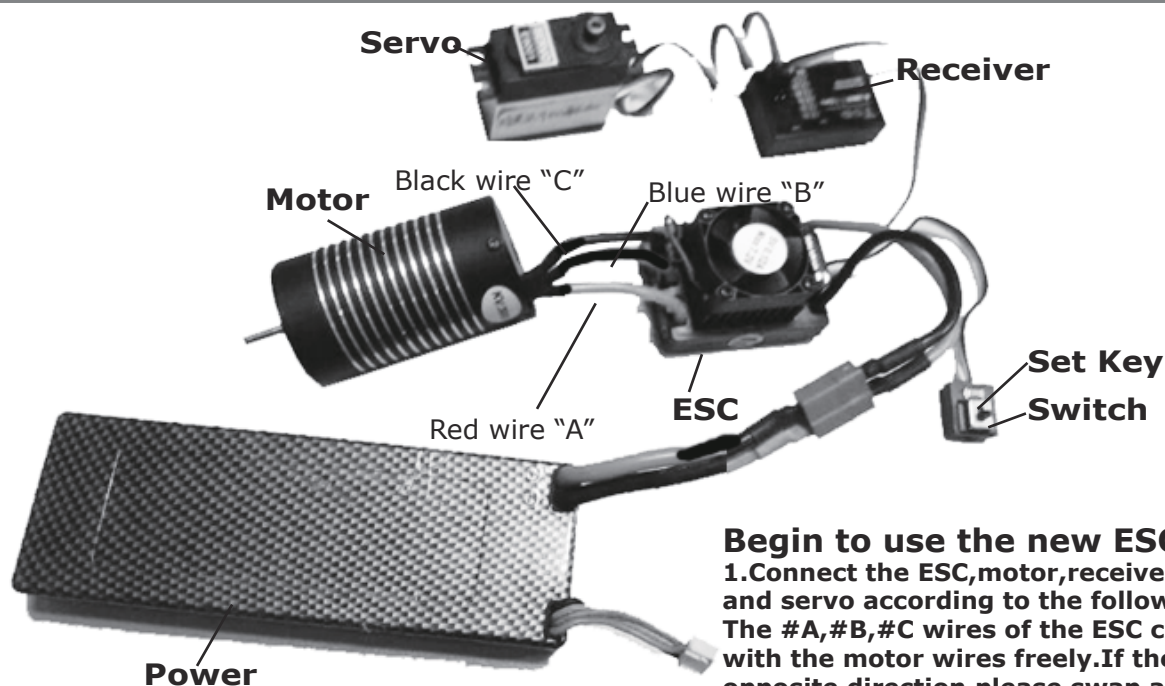
3



3. When the LED on the receiver becomes solid, the binding process is completed.

### Electrical powered model





## Begin to use the new ESC

1. Connect the ESC, motor, receiver, battery and servo according to the following diagram. The #A, #B, #C wires of the ESC can be connected with the motor wires freely. If the motor runs in the opposite direction, please swap any two wire connections.

Note: You can use the transmitter to set the throttle channel to the "Reverse" direction, and then the motor will run oppositely. Please calibrate the throttle range again after changing the direction of throttle channel.

## 2. Throttle Range Setting (Throttle Range Calibration)

In order to make the ESC match the throttle range, you must calibrate it when you begin to use a new ESC, or a new transmitter, or after changing the setting of the neutral position of throttle channel. ATV or EPA parameters, otherwise the ESC cannot work properly.



- 1). Switch off the ESC, turn on the transmitter, set the direction of throttle channel to "REV", set the "EPA/ATV" value of throttle channel to "100%", and disable the "ABS" brake function of your transmitter. (Note1)
- 2). Hold the "SET" key and then switch on the ESC, when the red LED begins to flash, release the key immediately.  
(Please check the picture on the right side)



Neutral point



Top point of full throttle



Top point of full brake

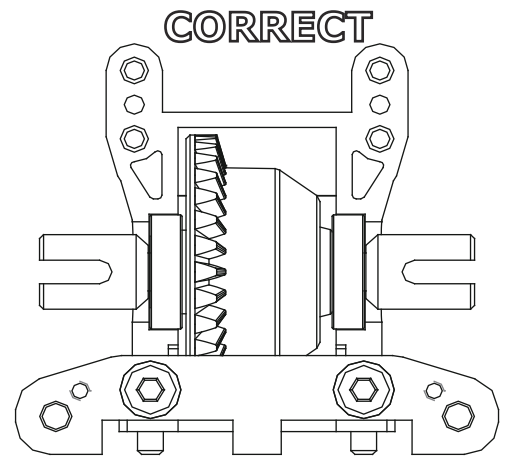
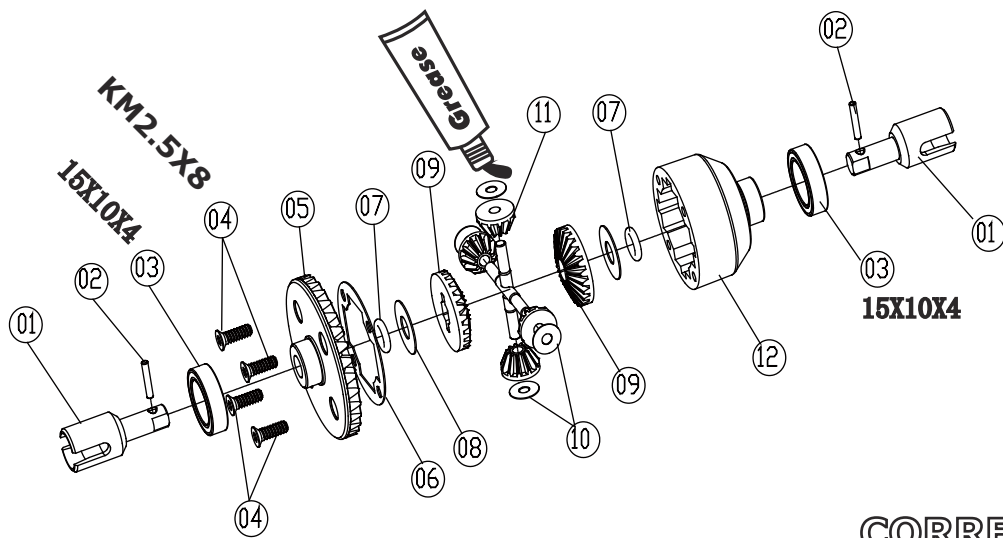
- 3). Set the THREE points according to the steps shown in the picture on the right side.
  - a) Neutral point
  - b) End point of forward direction
  - c) End point of backward direction
- 4). When the process of calibration is finished, the motor can be started after 3 seconds.

Note1: If you don't release the "SET" key after the red LED begins to flash, the ESC will enter the program mode, in such a case, please switch off the ESC and re-calibrate the throttle range again from step 1 to step 4.

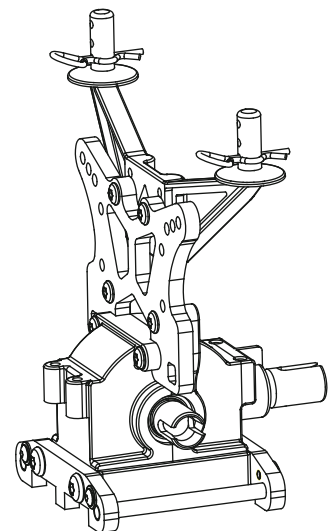
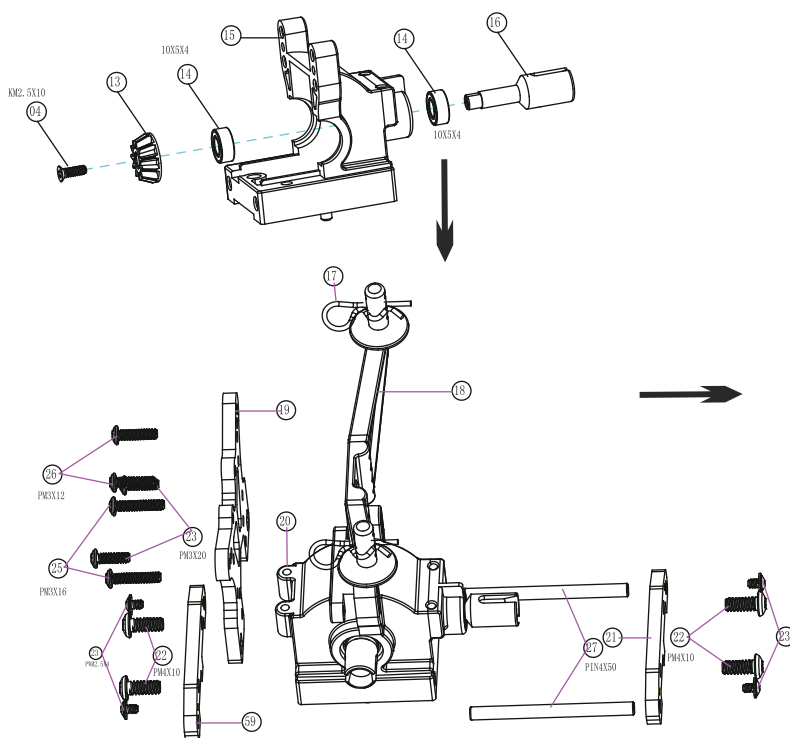


NOTE: standby application

## » Front Suspensive Assembly

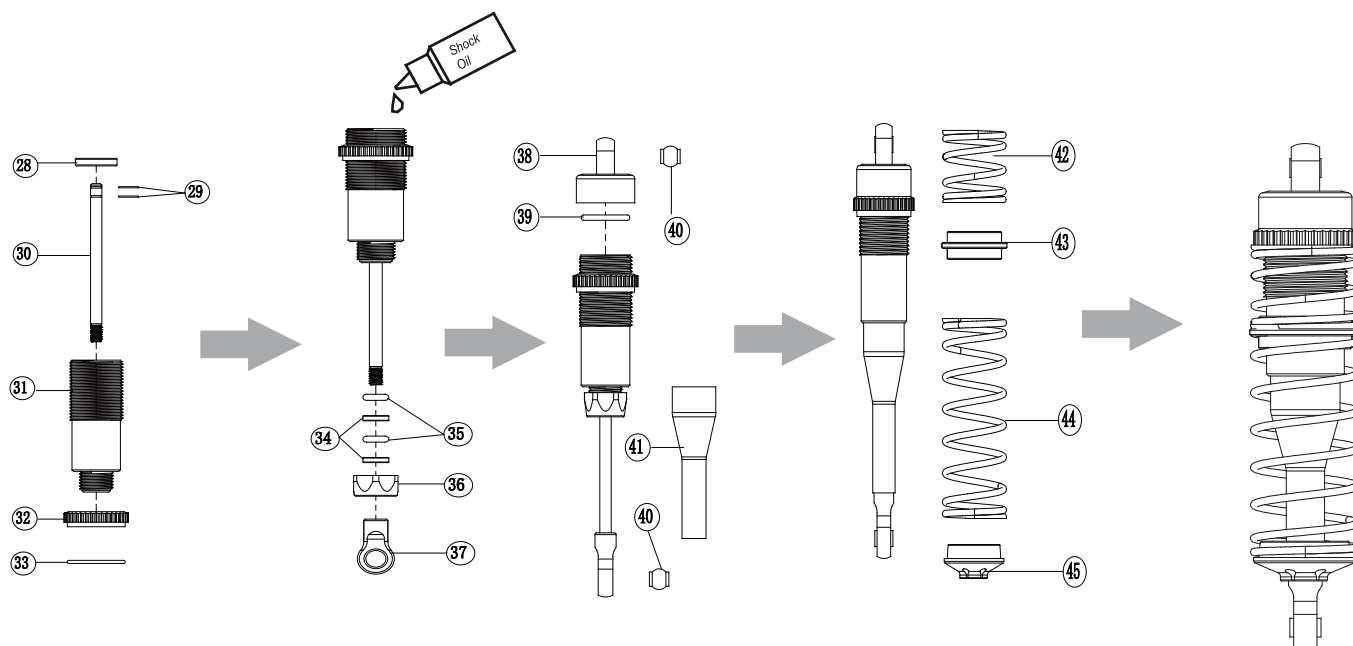


## » Front Gear Box Assembly





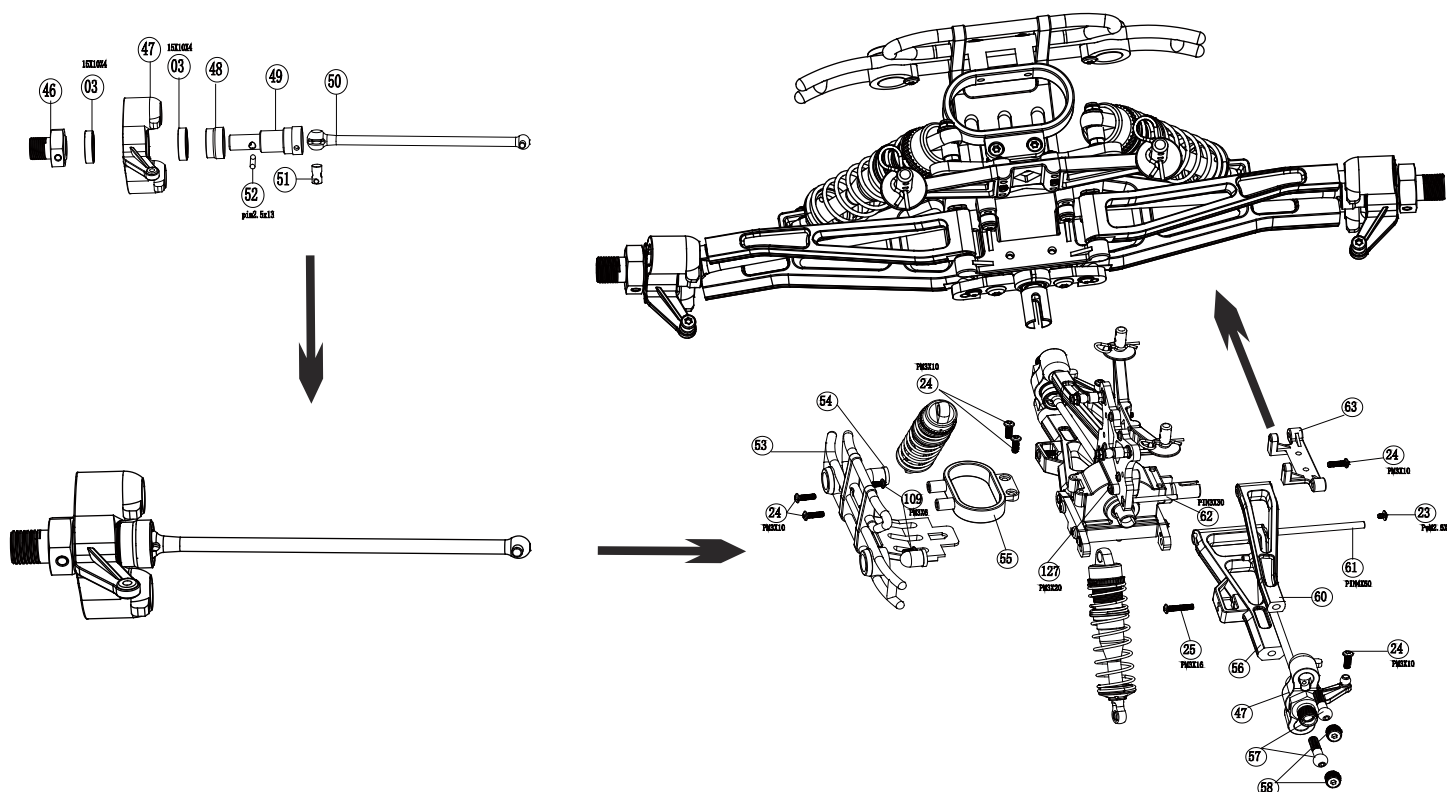
## Shock Assembly



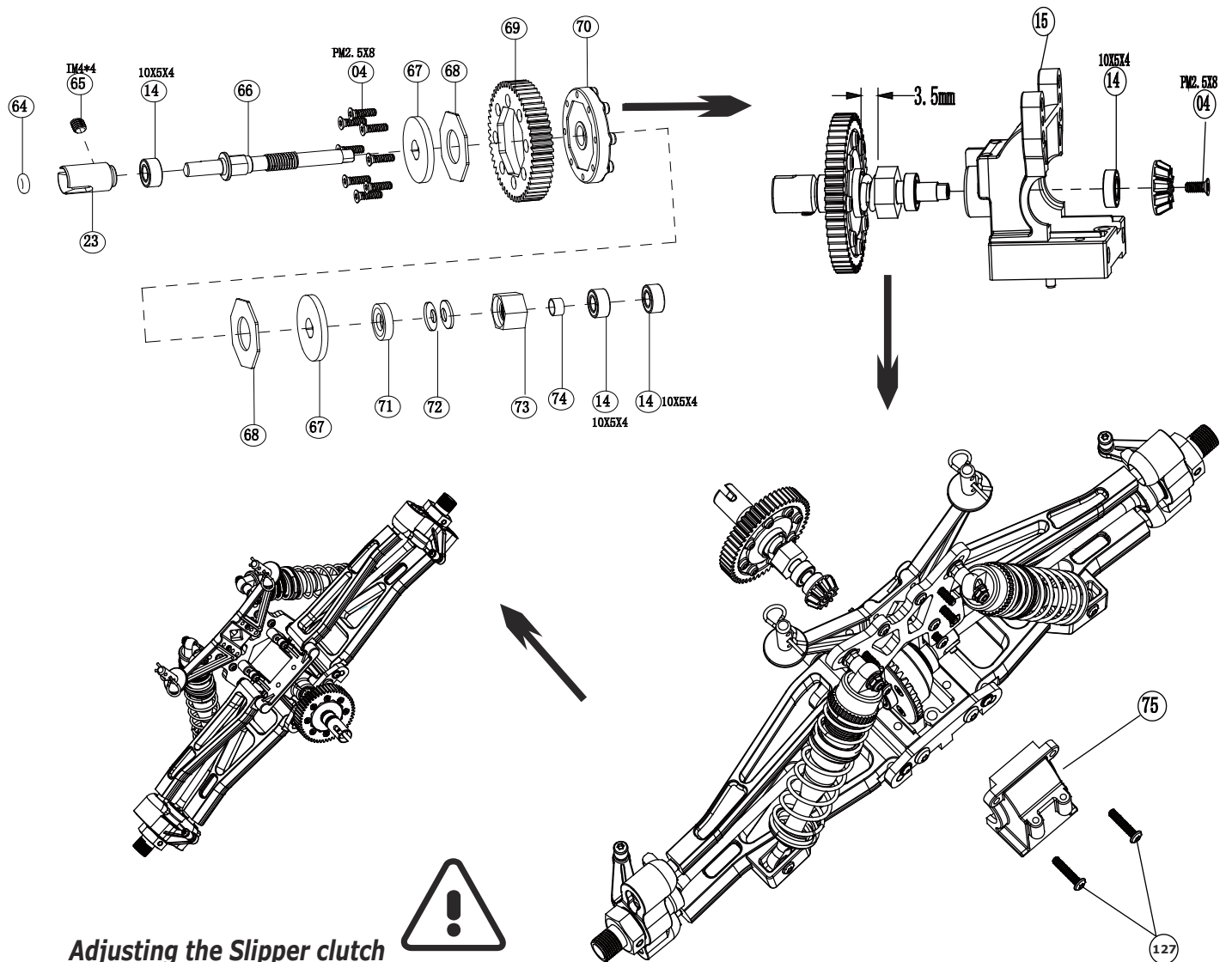
### Shock Assembling Steps:

- 1.Fill shock body with 4/5 silicone fluid(purchase seperately),pump the shock shaft up and down to remove any air bubbles.
- 2.Wait the air bubbles pumped out,then pull down the shock shaft to the bottom,fill the silicone fluid up to 2 mm,after that ,tighten the shock head 1.
- 3.Install the spring,shock assembling finished.

## Front Suspension Arms Assembly



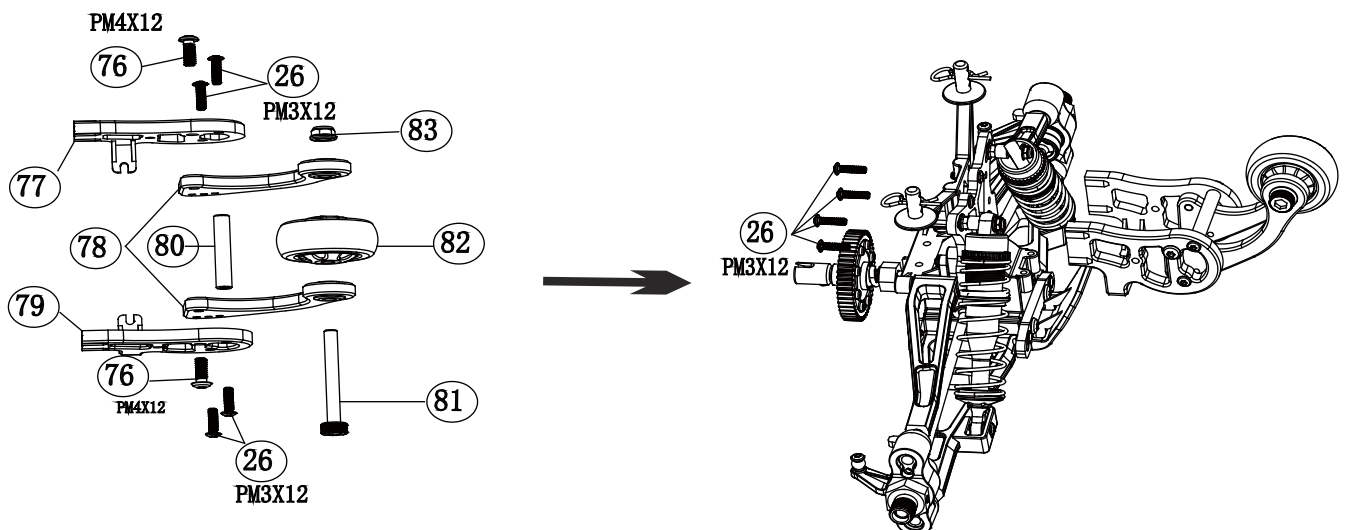
## » Rear suspensive arm Assembly



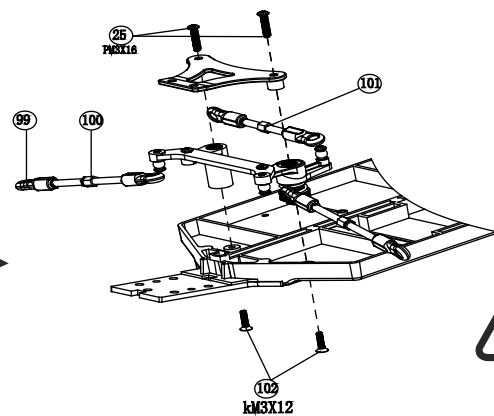
### Adjusting the Slipper clutch

**NOTE:** the slipper clutch adjustment too loose or tight may result in damage the gear during racing.

## Tail wheels Assembly

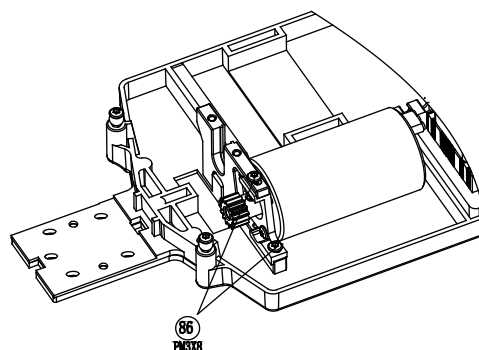


## » Steering Assembly



**NOTE:** Rotating the nut 98 to seek suitable degree of tightness.

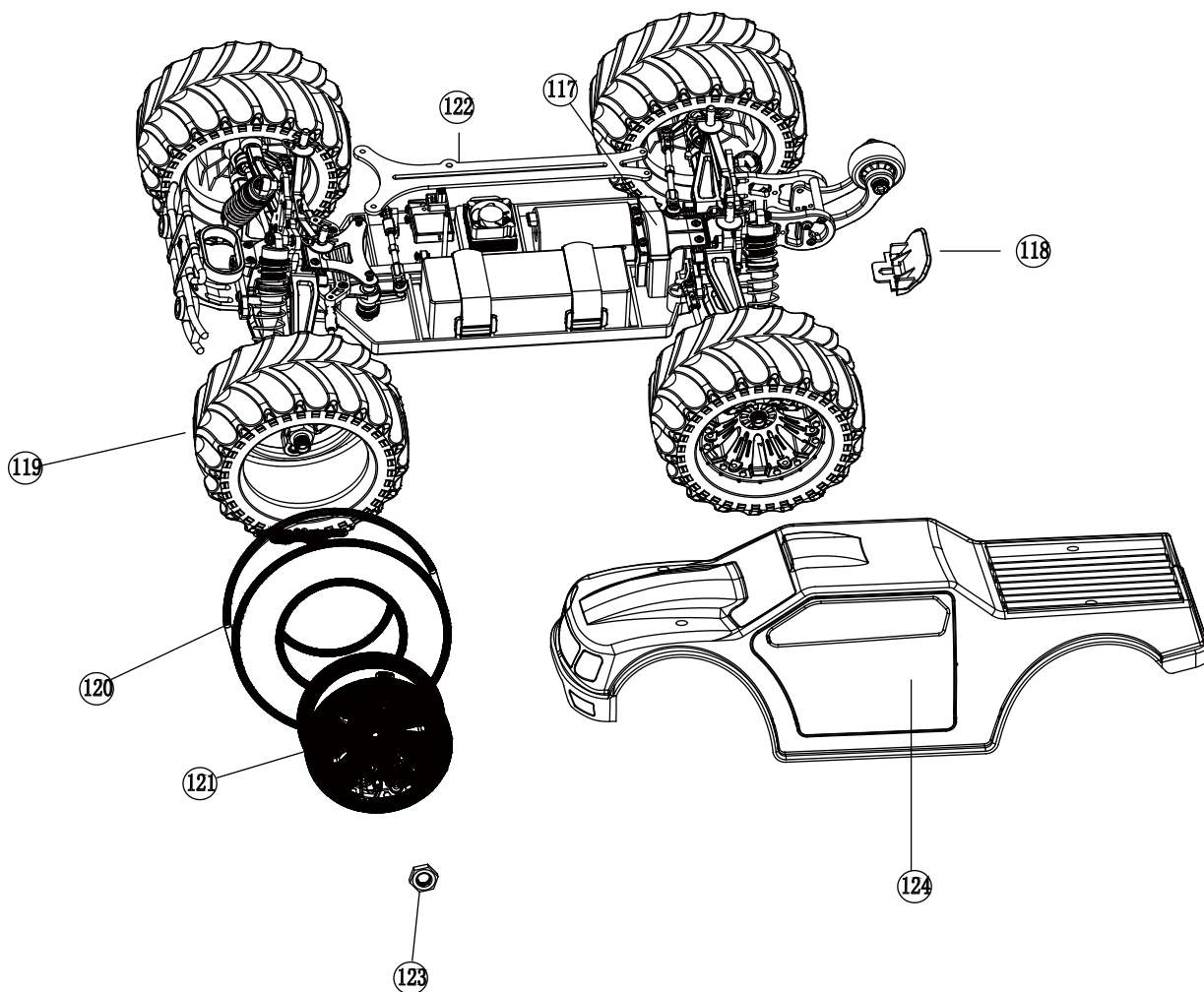
# Motor Mount Assembly



**NOTE:** Adjustment 86 to seek suitable degree of tightness.

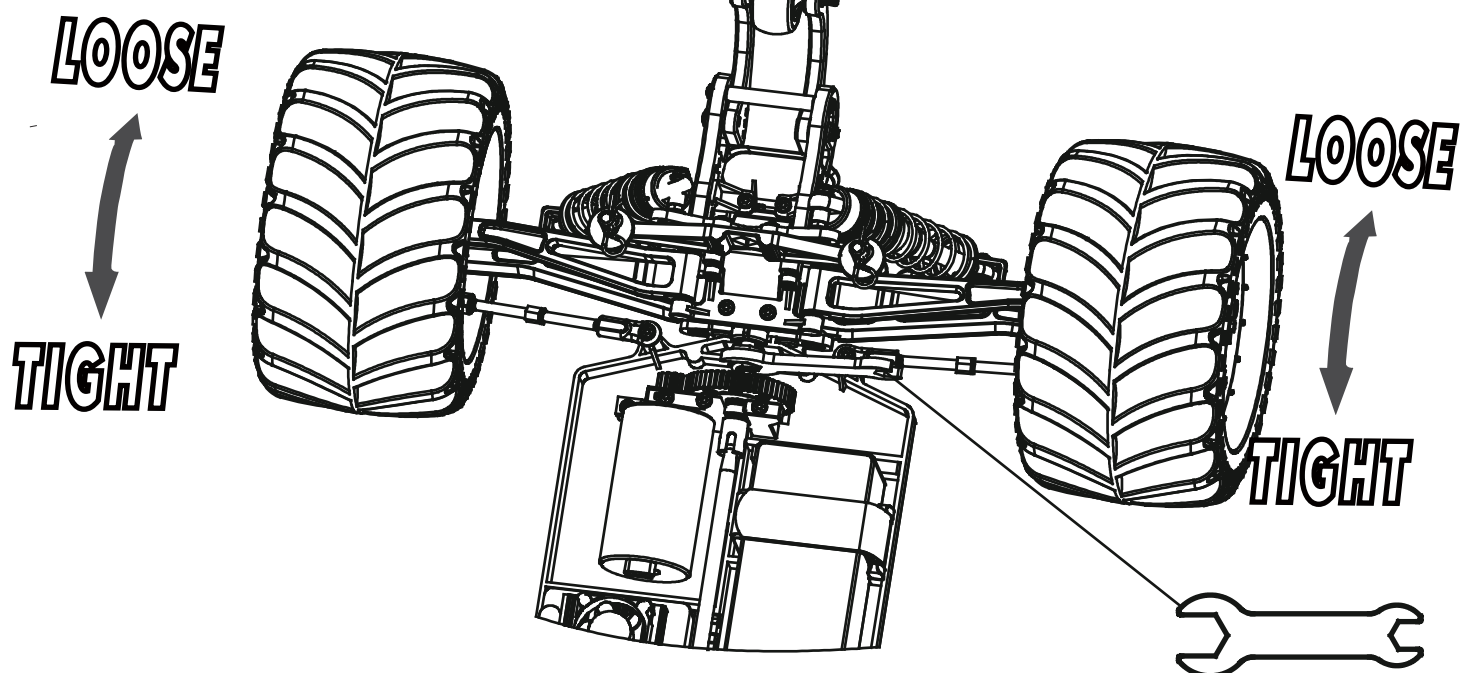
## » Chassis Assembly





**TIPS: The slipper clutch adjustment short cut**

Use wrench 10mm key, Insert the hold as the picture below.  
Grasp the both sides of rear wheels, rotate in the same direction.





# » SPARE PARTS

**EA1001**



Down suspensive  
x2

**EA1002**



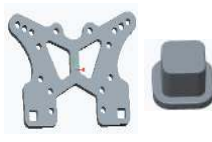
TOP suspensive  
x2

**EA1003**



x2 x4

**EA1004**



x1 x2

**EA1005**



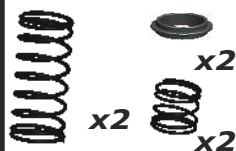
x2  
PM4X10 PWM2.5X4  
x4 x4

**EA1006**



x1  
x1

**EA1007**



x2 x2  
x2

**EA1008**



x1  
x2  
KM3X12 x2

**EA1009**



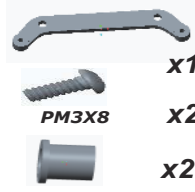
x1 x1  
x1

**EA1010**



x1  
PM3X12 x2  
PM3X116 x2

**EA1011**



x1  
PM3X8 x2  
x2

**EA1012**



x1  
PM3X10 x2

**EA1013**



x1  
PM3X10 x2

**EA1014**



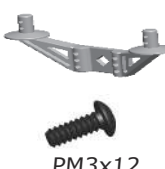
x1

**EA1015**



x2  
PIN3X17 x2  
IM3X3 x2

**EA1016**



x2  
PM3x12 x4

**EA1017**



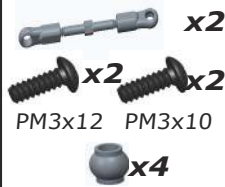
x2

**EA1018**



x2  
PM3x10 x4  
x4

**EA1019**



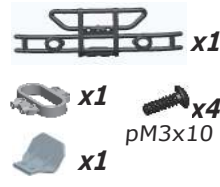
x2  
PM3x12 PM3x10 x2  
x4

**EA1020**



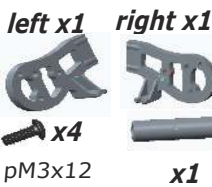
x2

**EA1021**



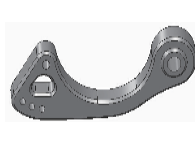
x1  
x1  
pM3x10 x4  
x1

**EA1022**



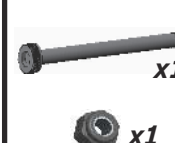
left x1 right x1  
x4  
pM3x12 x1

**EA1023**



x2

**EA1024**



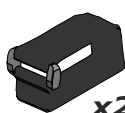
x1  
x1

**EA1025**



x1  
x4

**EA1026**



x2

**EA1027**



x2

**EA1028**



x2  
x2

**EA1029**



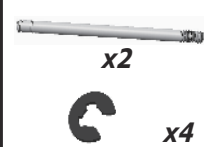
x2  
x2  
x2

**EA1030**



x10  
pM3x10 x10

**EA1031**



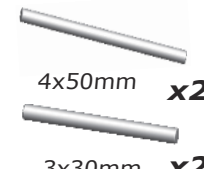
x2  
3.0mm x4

**EA1032**



x1

**EA1033**



4x50mm x2  
3x30mm x2

**EA1034**



x1

**EA1035**



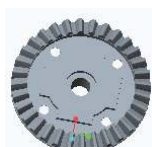
x2  
x2

**EA1036**



x2

**EA1037**



x1

**EA1038**



x1

**EA1039**



x2  
x4

**EA1040**



x1  
im4x4 x1

**EA1041**




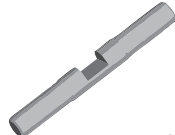


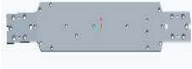










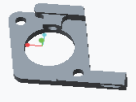

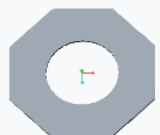


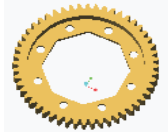
















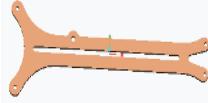



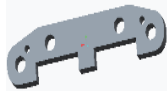



x2

**EA1042**















x1  
x2  
x1  
x1

# SPARE PARTS

<b>EA1043</b>  x10	<b>EA1044</b>  x2	<b>EA1045</b>  x1  iM4x4 x1	<b>EA1046</b>  x1	<b>EA1047</b>  x1	<b>EA1048</b>  x2  x2
<b>EA1049</b>  FRONT x1  REAR x1	<b>EA1050</b>  x2  x1  KM3X12 x2	<b>EA1051</b>  x1  KM3X12 x3	<b>EA1052</b>  x1  PM3X8 x4	<b>EA1053</b>  x2	<b>EA1054</b>  x1  KM2.5*8 x8
<b>EA1055</b>  x1	<b>EA1056</b>  x1	<b>EA1057</b>  x1	<b>EA1058</b>  x1	<b>EA1059</b>  x1  pM3x12 x2  pM4x12 x2	<b>EA1060</b>  x1  x1
<b>EA1061</b>  M10 x2  x2	<b>EA1062</b>  x1	<b>EA1063</b>  80A x1	<b>EA1066</b>   x1	<b>EA1067</b>  11.1V-4000MAH x1	<b>EA1068</b>  x4
<b>EA1069</b>  x1	<b>EA1070</b>  x1	<b>EA1071</b>  x2	<b>EA1075</b>  x8	<b>EA1076</b>  x2  PM4X10 x4  PWM2.5X4 x4	<b>EA1077</b>  x1 OP-gear-seat

# SPARE PARTS

<b>BE001</b>  10x15x4 x4	<b>BE002</b>  5x10x4 x4	<b>BE003</b>  5x8x2.5 x4	<b>PN001</b>  1.0x7.8mm x10	<b>PN002</b>  2.5x13mm x10	<b>PN003</b>  3.0x117mm x10
<b>SW001</b>  pM3x24 x10	<b>SW002</b>  pM3x16 x10	<b>SW003</b>  pM3x12 x10	<b>SW004</b>  pM3x10 x10	<b>SW005</b>  pM3x8 x10	<b>SW006</b>  pM3x6 x10

# » SPARE PARTS

**SW007**



KM4x10

x10

**SW008**



KM3x12

x10

**SW009**



KM2.5x8

x10

**SW010**



pM2.5x8

x10

**SW011**



pwM2.5x4

x10

**SW012**



KM4x20

x10

**SW013**



pM3x20

x10

**SW014**



pM4x10

x10

**SW015**



pM4x12

x10

**SW016**



IM4x4

x10

**SW017**



IM3x3

x10

**NT001**



M3 NYLON

x10

**NT002**



M10

x10

**NT003**



M5 NYLON

x10

**OR001**



ID 3.0x2.0mm

x10

**OR002**



ID 4.5x1.5mm

x10

**OR003**



ID 12x1.5mm

x10

**OR004**



ID 16x1.0mm

x10

**EC001**



3MM

x10

**SP001**



10X5X0.3MM

x10

**EA1078**



x2

OP-dog-bone

**EA1080**



x1

3670-2500KV

**EA1081**



21KG  
metal Gear  
SteeringServo

x1

**EC1009**



upgrade X1

**EA1082**



x1

# »Bill Of Material

Number	Name	spare parts	Dosage	Number	Name	Spare parts	Dosage	Number	Name	Spare parts	Dosage
1	Differetail cup	EA1071	4	53	Front bumper	EA1021	1	105	Battery	EA1067	1
2	Pin1.0*7.8	PN001	4	54	LED	EA1034	1	106	Matel chasssis	EA1046	1
3	Bearing15*10*4	BE001	4	55	Bumper support	EA1021	1	107	Antenna tube	standby(备用)	1
4	Km2.5*8	SW009	18	56	Down suspension	EA1001	4	109	ESC80A	EA1063	1
5	Beleve 32T	EA1037	2	57	Ball screw8*22	EA1068	8	110	Receiver	EA1062	1
6	Oil seal	EA1048	2	58	Fix ball	EA1075	8	111	Servo stay	EA1050	2
7	ID4.5*1.5	OR002	2	59	ARM holder-OP	EA1076	8	112	Servo15KG	EA1064	1
8	Spacer 10*5*0.3	SP001	4	60	TOP suspension	EA1002	4	113	Servo arm	EA1050	1
9	Beleve 24T	EA1039	4	61	Pin4*50	EA1033	4	114	Km4*10	SW007	8
10	Spacer 7*3*0.2	standby(备用)	8	62	Pin3*30	EA1033	4	115	Pin3*10	EA1014	2
11	Beleve 11T	EA1039	8	63	Suspension seat	EA1012	2	116	Center shaft	EA1014	1
12	diff box	EA1048	2	64	Ring 3020	OR001	10	117	GEAR COVER	EA1013	1
13	Beleve drive 11T	EA1038	2	65	IM4*4	SW016	2	118	Rear bumper	EA1021	1
14	Bearing10*5*4	BE002	5	66	Rear drive shaft	EA1070	1	119	Tire	EA1020	1
15	Box rear	EA1049	2	67	Drive disc	EA1041	2	120	Tire inner	EA1020	4
16	Driver shaft cup	EA1017	1	68	Slipper sheet	EA1053	2	121	Wheel bone	EA1020	4
17	Shell lock	EA1043	4	69	Spur52T	EA1055	1	122	scend floor	EA1069	1
18	Body mount bracket	EA1016	2	70	Gear seat	EA1054	1	123	NUT M10	NT002	4
19	Shock stay	EA1004	2	71	Push seat	EA1042	1	124	paint body	EA1025	1
20	Box front	EA1049	2	72	Slipper spring	EA1042	2	125	Plastic chassis	EA1047	1
21	ARM holder	EA1005	4	73	SLIPPER NUT	EA1042	1	126	km4*20	EA1012	6
22	PM4*10	SW014	8	74	COPPER BUSH3*6	EA1042	1	126	PM3*20	EA1013	4
23	PWM2.5*4	SW011	8	75	Box front	EA1049	1				
24	PM3*10	SW004	34	76	PM4*12	SW015	4				
25	PM3*16	SW002	4	77	Holder right	EA1022	1				
26	PM3*12	SW003	4	78	Tail wheel holder	EA1023	2				
27	PM3*20	SW013	4	79	Holder left	EA1022	1				
28	Shock piston	EA1029	4	80	Support post	EA1022	1				
29	E ring 3.0	EC001	8	81	Screw5*45	EA1024	1				
30	Shock shaft	EA1031	4	82	Tail wheel	EA1032	1				
31	Shock body	EA1060	4	83	Nut m5	NT003	1				
32	Shock adjust nut	EA1035	4	84	Motor	EA1065	1				
33	Ring 1215	EA1035	4	85	Motor seat	EA1051	1				
34	o support ring	EA1060	4	86	Pm3*8	SW005	4				
35	Ring 3020	OR001	4	87	Motor gear 15T	EA1040	1				
36	Shock bottom cup	EA1060	4	88	Motot lock	EA1052	1				
37	Ball head buckle	EA1029	4	89	Fix post	EA1008	2				
38	Shock head	EA1028	4	90	Bearing8*5*2.5	BE003	4				
39	Ring 1601	EA1028	4	91	Direction arm	EA1009	1				
40	Ball15.8*6	EA1030	18	92	COPPER BUSH	EA1011	2				
41	Dust cover	EA1036	4	93	Steer link	EA1011	1				
42	Shock spring long	EA1007	4	94	Turning post	EA1008	1				
43	Spring jiont ring	EA1007	4	95	Servo save A	EA1009	1				
44	Shock spring Short	EA1007	4	96	SERVO SAVE B	EA1009	1				
45	Shock retainer	EA1029	4	97	SAVE spring	EA1006	1				
46	Wheel joint	EA1015	4	98	Save nut	EA1006	1				
47	Steer block	EA1003	4	99	Ball botton20	EA1018	10				
48	Cvd cover	EA1061	4	100	Tutning bar	EA1018	4				
49	Cvd holder	EA1061	4	101	servo bar	EA1019	1				
50	Cvd shaft	EA1061	4	102	Km3*12	SW008	16				
51	Fixed pin	EA1061	4	103	Magic tape	EA1026	2				
52	Pin2.5*13	EA1061	4	104	Sponge60*10*5	EA1027	2				



## CHEETAH

1:10 Scale 4WD Brushless monster truck.

### ProductFeature:

Superior metal chassis design

The whole kit strength is enhanced greatly, not afraid to general crash. It's crash worth more than 70% compared to common model cars. And the chasis is with strength metal second floor which can protect the vehicle fram of impact resistance strength and prolong lifetime.

### Tough Suspension

CHEETAH giving you the assurance that you'll be able to deal out the same abuse that all the other nitro-powered trucks can handle! Beefy parts mean the CHEETAH can take plenty of abuse and punishment, giving you plenty of big-air thrills.

### Thick Super Heavy-Duty Dogbons

Extra-thick, super duty dogbones provide the insurance you'll want when you take the CHEETAH way off-road and into rough country! The thick diameter, larger ends and sleek black anodizing add up to all the assurance you'll want that the drivetrain won't let you down when the going gets tough! You'll be able to commit the full power of the Brushless motor to the ground without worrying about drivetrain breakages or anything else.

### Big Bore Aluminum Shocks

Four huge Big Bore shocks give all the suspension action you need to get out and blast through the roughest of tracks or off-road terrain. With slick aluminum bodies, they are lightweight and strong, with almost no friction 'stiction' between the shock piston and shock body. The extra-large capacity gives you extra control and damping action so you have the driving feel that makes off-road driving so much fun!

### CHEETAH Wheelie Bar

The Wheelie Bar is included as OP part, ready for you to bolt on in case you want to pull impressive wheelies. This design makes the car looks high-end. This car has a relaxed air or cartwheel stunts and Turning somersault. Also, the special balance feature will not make the car overturned easily.

### All-Terrain Tyres

With the aggressive tyres, you can go off-road to on-road with cool, predictable handling and very little drama. The centre tread lines give you stability on paved surfaces while the side treads and heavy-duty sidewall teeth grip any sort of dirt, mud, muck, leaves, etc.

### High CG&High stability

He can easily through any terrain, The high CG gives you extra control and cornering ability, allowing you to rule the corners on the track and pull off spectacular stunts to impress.

### RTR

They are Ready-To-Run. Just a few steps are needed to get your car up and running. Ready-To-Run models bring you the same high performance and quality. cheetah also could be a high end model car kit, if you prefer.



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