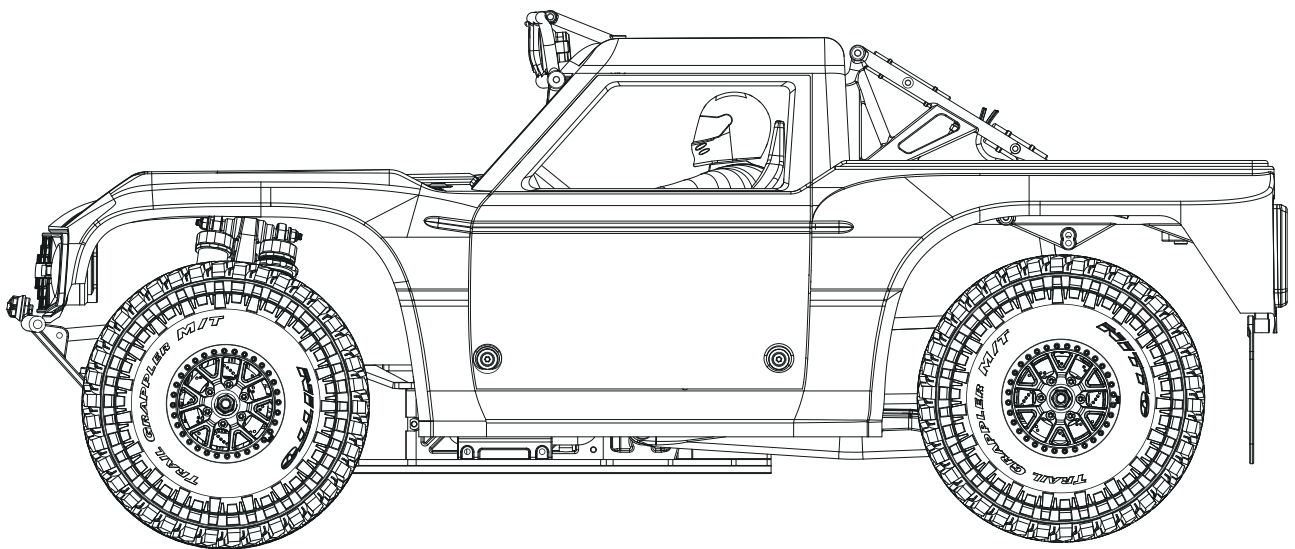




***1/7 SCALE 4WD
RTR FUN-HAVER FORD BRONCO
INSTRUCTION MANUAL***



Instruction Manual

操作手册

Introduction 指引

Thank you for purchasing our products.

This manual is written to assist you in properly operating, maintaining and repairing the vehicle. As many of the components used are unique to this product, please retain this manual as a future reference. Composed of precision-made components, this product is not a toy, thus it is not suited for children under 14 years of age. Minors should be accompanied by an adult when operating. Failure to operate or maintain this product in a safe manner can result in bodily harm. It is the owner responsibility to operate this product in a safe manner. Rochobby and its distributors are not responsible in any way for any and all bodily harm and/ or property damage that may result from the use of this product.

感谢您购买我们的产品。

本手册旨在帮助您正确操作、维护和修理车辆。由于本品所涉部件多数为特有部件，请保留本手册作为未来参考之用。本产品由精密部件组成，并非玩具，因此不适合 14 岁以下的少年或儿童使用。未成年人操作时应有成人陪同。未能以安全的方式操作或维护本产品可能会导致人身伤害。以安全的方式操作本产品是所有者的责任。Rochobby及其分销商对使用本产品可能导致的任何和所有人身伤害和/或财产损失概不负责。

Safety, precautions and warnings 安全、预防措施及警告

1) 严禁在公共场所或拥挤的地方操作模型车，本产品不允许儿童在没有成人直接监督下使用。

Never operate the model in public places and the street or in populated areas for any reason. This product is not intended for use by children without direct adult supervision.

2) 严禁反接电池或拆解电池，这是危险的，并可能引起火灾。

Never reverse install the battery or disassemble the battery, which is dangerous and may cause a fire.

3) 本产品包含细小且锋利的零件，请将任何化学品、小零件和电子设备放在儿童接触不到的地方。

This product contains small and sharp parts, keep all chemicals, small parts and anything electrical out of the reach of children.

4) 当不使用模型车时，请先断开电源并把电池从车身移出。此外遥控器电源关闭后，应取出电池以免漏液。

When not use the vehicle, power OFF the vehicle and then the transmitter, Unplug the battery and remove it from the vehicle. Also remove the transmitter battery to avoid leakage.

5) 请不要混用新旧或不同类型电池。

Please do not mix old and new batteries or different types of batteries.

6) 不要在遥控器电量低的情况下操作车子，如果电池电量过低，请更换电池。

Never operate your model with low transmitter batteries. Replace batteries when vehicle batteries are low.

7) 在开机状态下，切勿拆卸遥控器电池。

Never remove the transmitter batteries while the model is powered ON.

8) 请根据当地有关规定，妥善弃置或回收电池。

Dispose of used batteries according to national regulations.

9) 充电时，请从模型车中取出电池，如果电池变形，请不要使用。

When charging the battery, please take out the battery from the vehicle. If the battery is deformed, please do not use it.

10) 电池应在成人监督下充电，无人看管时请勿给电池充电。

The battery should be charged under adult supervision, do not charge the battery when unattended.

11) 遥控系统有各种不同功能和设置，初次接触前请确保对所有功能设置完全理解，未能正确操作可能导致产品损坏。

The radio system has different functions and settings, please read the entire manual to gain a full understanding of functions, failure to operate correctly could result in product malfunction and damage.

This product is not a toy! (14+) Recommended for ages 14 and up. Adult supervision required for ages under 14 years old. Contains small parts, keep out of reach of children 3 years of age and younger.

使用前请仔细阅读本手册。我们不对任何故意损坏或不当使用负责。这个产品不是玩具！建议14岁及以上者使用。14岁以下的用户，需要在成年人监督下使用。本产品部分包含小零件，请务必保证3岁及以下儿童不能接触本产品。



Product Specification

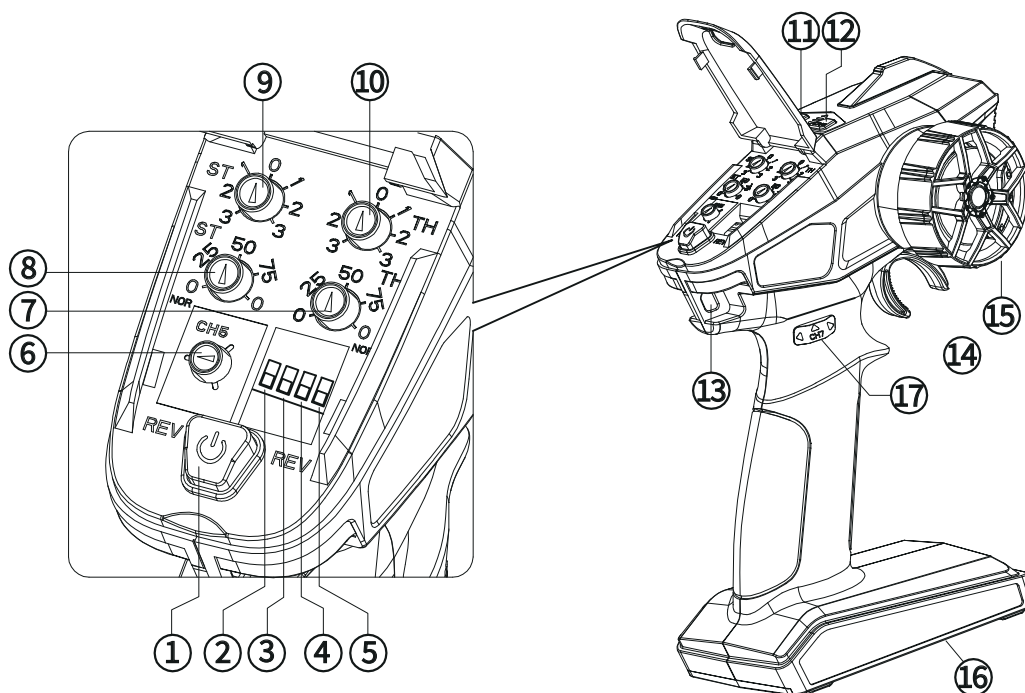
产品规格参数

车长 Length: 650mm
 车宽 Width : 350mm
 车高 Height: 273mm
 轮胎Tire Size (Diameter & Width) : 146*55mm
 轮毂(直径和宽度) Wheelhub Size (Diameter & Width) : 86*61*40mm
 轮毂接合器尺寸 Wheelhub Adaptor Size: 17mm
 轮距 Tread: 290mm
 轴距 Wheelbase: 425mm
 离地距离Ground Clearance: 45mm
 车重 Produce Weight: 7.5kg
 电调 ESC: WP-8BL-150RTR-ESC
 马达 Motor: 4274 1600KV
 电池仓尺寸 Battery Compartment Size: 181*47.5*54mm
 轴承(含材质数量) Bearing: 26pcs

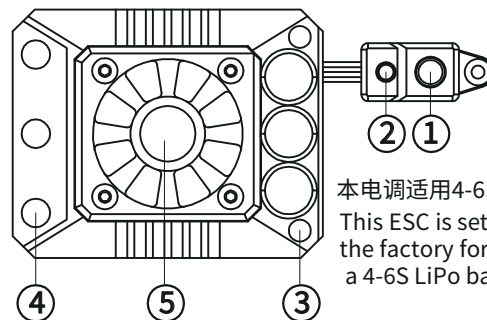
转向 Steering Type: 2WS
 最大转向角 Maximum steering angle: 35°
 推荐电池 Recommend Battery: 4-6S
 驱动形式 Drivetrain: 4WD
 发射型号 Transmitter: X5P7-350
 接收型号 Receiver: P6DCG
 是否防水 Waterproof Class: Splash-proof
 最大速度 Maximum Speed: 80KM/h
 最大遥控距离 Maximum Control Distance: 200m
 马达齿数 Motor Gear Pinion: 12T
 马达齿模数 Motor Gear Pitch: M1
 正齿轮齿数 Spur Gear Pinion: 63T
 正齿轮模数 Spur Gear Pitch: M1

Transmitter Intruction

发射机概览

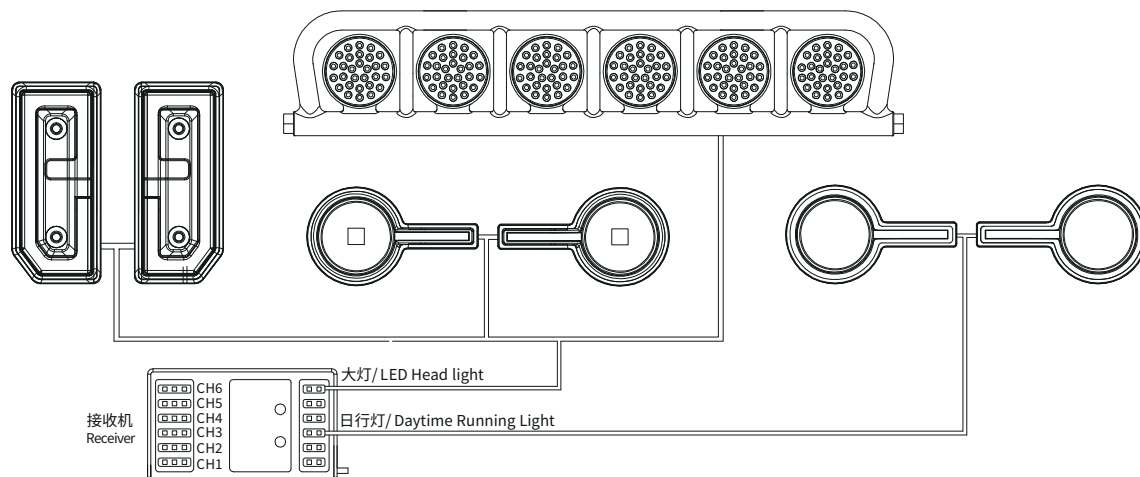


- | | |
|---|---|
| 1) 电源开关
Power Button | 9) 转向中位微调
ST Trim |
| 2) 1通正反切换开关
CH1 Reverse Switch | 10) 油门中位微调
TH Trim |
| 3) 2通正反切换开关
CH2 Reverse Switch | 11) 第3通道
Channel 3 |
| 4) 3通正反切换开关
CH3 Reverse Switch | 12) 第4通道
Channel 4 |
| 5) 4通正反切换开关
CH4 Reverse Switch | 13) 挂绳孔
Lanyard hole |
| 6) 第5通道(陀螺仪感度调节)
Channel 5 (Gyro sensitivity adjustment) | 14) 油门/刹车扳手 (2通)
Throttle/Brake Trigger(CH2) |
| 7) 油门舵量旋钮
EPA for Throttle | 15) 转向轮 (1通)
Steering Wheel (CH1) |
| 8) 转向舵量旋钮
EPA for Steering | 16) 电池仓
Battery Installation |
| | 17) 灯孔开关
Lighting Control Button (CH7) |



- | | |
|----------------------------------|----------------------------------|
| 1) 电调电源开关
ESC Power Switch | 4) 马达线接口
Motor wire connector |
| 2) 电调设置按钮
ESC SET Button | 5) 散热风扇
Cooling fan |
| 3) 电源线接口
Power wire connector | |

本电调适用4-6S锂电池
 This ESC is setup at the factory for use with a 4-6S LiPo battery.



WP-8BL150-RTR User Manual

电调说明书



感谢您购买本产品!无刷动力系统功率强大,错误的使用可能造成人身伤害和设备损坏。我们强烈建议您在使用设备前仔细阅读本说明书,并严格遵守规定的操作程序。我们不承担因使用本产品而引起的任何责任,包括但不限于对附带损失或间接损失的赔偿责任;同时,我们不承担因擅自对产品进行修改所引起的任何责任。我们有权在不经通知的情况下变更产品设计、外观、性能及使用要求。

Thanks for purchasing our Electronic Speed Controller (ESC). The power system for RC model can be very dangerous, so please read this manual carefully. In that we have no control over the correct use, installation, application, or maintenance of our products, no liability shall be assumed nor accepted for any damages, losses or costs resulting from the use of the 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.

Features 产品特点

- ★ 一体式全防水及防尘设计(可浸泡在水中工作),特别适合短途卡车、大脚车及其他娱乐性强的车种使用,有效提高电调使用寿命;(注:当需浸水工作时,需将风扇取下,并在使用后尽快将电调冲洗吹干,以免插头氧化生锈)
Completely water-proof and dust-proof. The ESC works properly even under water. (Please remove the cooling fan when running car in water, and after running, please make the ESC clean and then dry it to avoid the oxidation of copper connectors)
- ★ 独立的编程接口,用参数设定卡调整电调参数时,不需把接收排线拔下来,更简单方便;
External Programming Port (EPP), easy to connect with program card, and also works as power port for cooling fan.
- ★ 内置开关稳压模式 (Switching Mode) BEC, 具备强大的电流输出能力;
Excellent start-up, acceleration and linearity features, suitable for truggy (especially short course trucks) and buggy.
- ★ 底面有安装孔,电调标配安装支架作为附件,便于固定于车架上;
The built-in switching mode BEC has powerful output to supply all electronic equipments.
- ★ 全新程序算法,具有优异的启动效果(9种启动加速度)、加速性能及油门线性度;
There is a mounting stand for installing the ESC on chassis easily and firmly.
- ★ 比例式刹车:5段最大刹车力度调节、8段拖刹力度调节,兼容传统机械式碟刹系统;
Proportional ABS brake function with 5 steps of maximum brake force adjustment, 8 steps of drag-brake force adjustment. Also compatible with the mechanical disc-brake system.
- ★ 多重保护功能:电压过低保护、过温保护、油门失控保护、堵转保护;
Multiple protection features: Low voltage cut-off protection / Over-heat protection / Throttle signal loss protection / Motor blocked protection.
- ★ 单键编程设定,且有单键恢复默认参数设置的功能;
Easily programmed with the SET button of the ESC, and also compatible with pocket-sized Program Card.

Specifications 车用无刷电子调速器产品规格

型号 Model	WP-8BL150-RTR (仅供 RTR)
持续电流/峰值电流 Cont./Burst Current	150A/950A
支持电机类型 Motor Supported	无感无刷电机 (亦可使用有感电机, 但是不支持有感工作模式) Sensored / Sensorless Brushless Motor (only in sensorless mode)
主要适用车型 Cars Applicable	1/8 电房、越野、卡车、大脚车 1/8 Touring Car, Truggy, Buggy, Monster
支持无刷马达 KV Motor Limit	使用 4S 锂电时: 4274 电机, $KV \leq 3000$; 使用 6S 锂电时: 4274 电机, $KV \leq 2400$ 4S LiPo : 4274 size motor, $KV \leq 3000$; 6S LiPo : 4274 size motor, $KV \leq 2400$
内阻 Resistance	0.00035 欧姆 0.00035 ohm
电池节数 Battery	8-18 Cells NiMH, 3-6S LiPo
BEC 输出 BEC Output (备注 1)	6V/5A, 开关稳压方式 6V/5A, Switch mode
参数设定接口 Programming Port	与风扇接口共用 FAN / PRG Port
底部尺寸 Dimension	59.5 (长) * 48 (宽) * 42 (高) 59.5(L) × 48(W) × 42(H)
重量(含线) Weight (With Wires)	178 克 178g

备注 1: 电调上的散热风扇由内置 BEC 供电而不是从电池组直接取电, 所以使用 5V 风扇即可, 无需考虑输入电压的高低。
NOTE1: The cooling fans of ESC is supplied by the built-in BEC, so it is always working under 6V.

Begin To Use The New ESC 首次使用车用无刷电子调速器

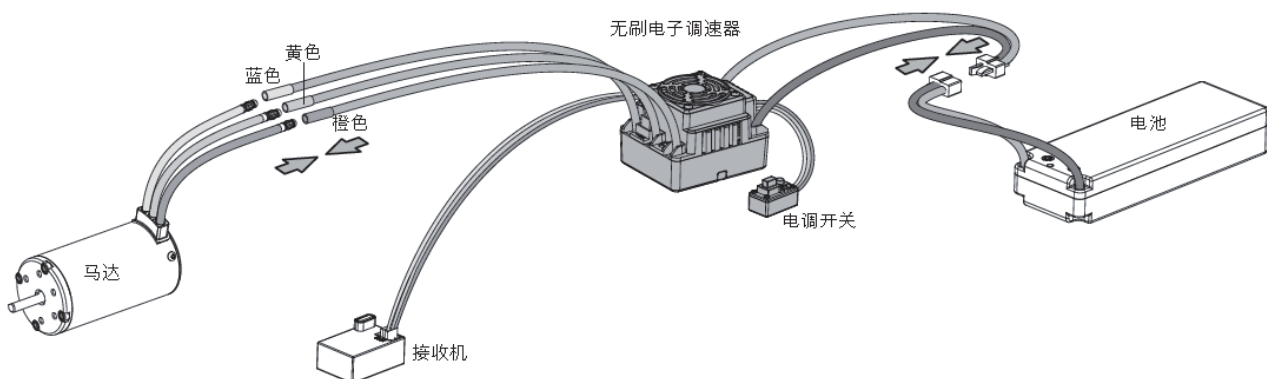
警告! 本系统功率强劲, 为安全起见, 请在车轮悬空的情况下开启电调上的控制开关!

WARNING! For safety, please always keep the wheels away from the track when switching on the ESC.

第一步: 按下图接线并复查无误后, 进入下一步。(若转向不对, 任意对调转其中两条马达线即可)。

1. Connect The ESC, Motor, Receiver, Battery And Servo

The #A, #B, #C wires of the ESC can be connected with the motor wires freely (without any sequence). If the motor runs in the opposite direction, please swap any two wire connections.



第二步: 设定油门行程。

强调: 电调第一次使用或遥控器更改过油门中点、ATV、EPA 等参数后, 均需重设油门行程, 不然可能会导致无法使用或误动作。

下面以 Futaba 遥控器为例, 说明油门行程的设定过程。

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 change the settings of neutral position of the throttle stick, ATV or EPA parameters, etc.

The following pictures show how to set the throttle range with a Futaba™ transmitter.

1、电调开关置于 OFF 状态, 电调接上电池, 打开遥控器, 将油门通道方向设置为 “REV”, 油门微调设置为 “0”, 油门通道的 EPA/ATV 正反向均设置为 100% (最大)。请务必关闭遥控器自带的 ABS 刹车功能。

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 function of your transmitter.

2、电调开关置于 OFF 状态, 持续按住 SET 键不松开, 将电调开关打到 ON, 电调上红色 LED (发光二极管) 立即开始闪烁 (同时马达发出鸣音 备注 2), 此时立即松开按键 (如果未在 3 秒内及时松开按键, 电调将进入参数编程模式, 此时需从步骤 1 重新开始操作)。

备注 2: 马达鸣叫声音可能较小, 在这种情况下, 观察 LED 状态即可。

2. Hold the "SET" key and then switch on the ESC, and release the "SET" key as soon as possible when the red LED begins to flash. (Note2)

Note2: If you don't release the "SET" key as soon as 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 A to step D.

3、此时需要设定三个点: 油门中点、正向最高点和反向最高点。

1) 油门摇杆留在中点位置, 按一下 SET 键, 红灯熄灭, 绿灯闪烁 1 次, 马达鸣叫 “哔” 1 声, 表示已存储中点位置;

2) 油门摇杆打到正向最高点, 按一下 SET 键, 绿灯闪烁 2 次, 马达鸣叫 “哔-哔” 2 声, 表示已存储油门正向最高点;

3) 油门摇杆打到反向最高点, 按一下 SET 键, 绿灯闪烁 3 次, 马达鸣叫 “哔-哔-哔” 3 声, 表示已存储油门反向最高点;

3. Set the 3 points according to the steps shown in the pictures on the right side.

1) The neutral point Move the throttle stick at the neutral point, and then click the SET key, the green LED flashes 1 time.

2) The end point of forward direction Move the throttle stick at the end point of forward direction, and then click the SET key, the green LED flashes 2 times.

3) The end point of backward direction Move the throttle stick at the end point of backward direction, and then click the SET key, the green LED flashes 3 times.

4 油门行程校调完毕, 三秒钟后, 电机即可正常操作。

4. Throttle range is calibrated; motor can be started after 3 seconds.

第三步: 接线及基本设置完成, 电机已经可以正常运行。行驶过程中指示灯 (LED) 状态说明:

1) 油门摇杆处于中点区域, 红色和绿色 LED 均熄灭。

2) 前进时, 红色 LED 恒亮; 当油门处于正向最大 (100% 油门) 时, 绿色 LED 也会点亮。

3) 刹车时, 红色 LED 恒亮; 当油门处于反向最大且最大刹车力度设为 100% 时, 绿色 LED 也会点亮。

4) 倒车时, 红色 LED 恒亮。

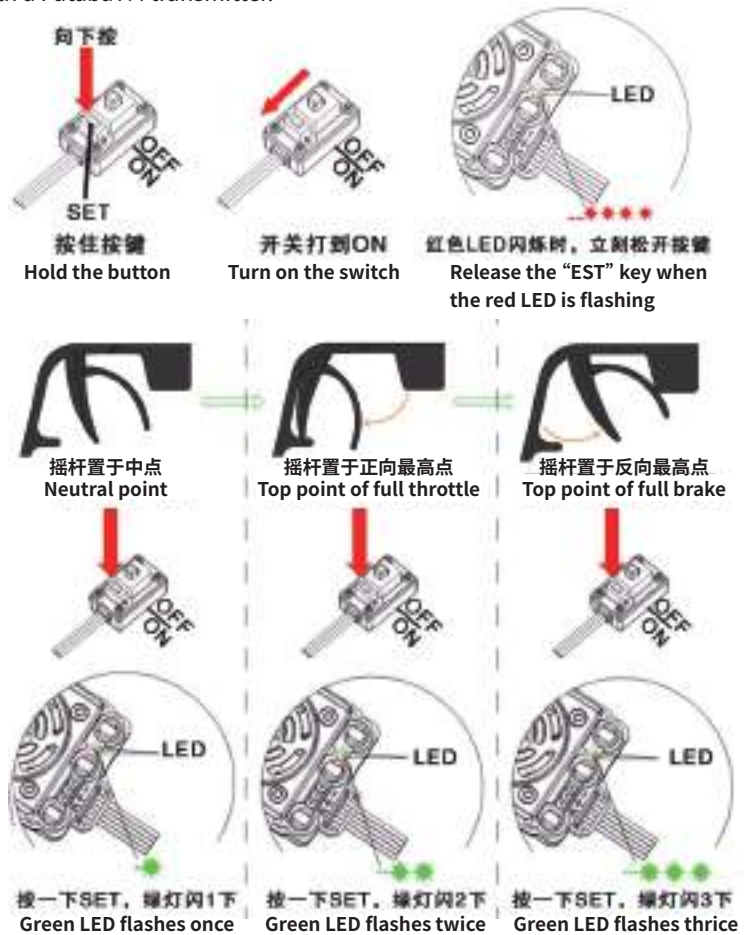
3. Check LED Status In Normal Running

1) When the throttle stick is in the neutral range, neither the Red LED nor the Green LED lights up.

2) When the car moves forward, the Red LED solidly lights; the Green LED also lights up when the throttle stick is at the top position (100% throttle).

3) When the car brakes, the Red LED solidly lights; the Green LED also lights up when the throttle stick is at the bottom position and the maximum brake force is set to 100%.

4) When the car reverses, the Red LED solidly lights.



第四步:开机鸣音说明:

在正常情况下开机(即不按住 SET 的情况下开机),电机发出几声“哔”鸣音表示锂电节数。“哔哔”表示 2 节锂电池,“哔哔哔”表示 3 节锂电,“哔哔哔哔”表示 4 节锂电,“哔哔哔哔哔哔”表示 6 节锂电。

Step 4: Power-On Beep Instructions

When powering on the device normally (i.e., without holding the SET button), the motor will emit a series of beeps to indicate the number of lithium battery cells:

"Beep beep" indicates a 2S LiPO battery.

"Beep beep beep" indicates a 3S LiPO battery.

"Beep beep beep beep" indicates a 4S LiPO battery.

"Beep beep beep beep beep beep" indicates a 6S LiPO battery.

Programmable Items List 编程设定说明

下表中斜体字表示出厂默认值。

The italic texts in the following form are the default settings.

设定项目名称 Programmable Items	可编程值 Programmable Value								
	1	2	3	4	5	6	7	8	9
运行模式 Running Mode	正转带刹车 Forward with Brake	<i>正反转带刹车 Forward/Reverse with Brake</i>	直接正反转 Forward and Reverse						
拖刹力度 Drag Brake Force	<i>0%</i>	5%	10%	20%	40%	60%	80%	100%	
电池低压保护阈值 Low Voltage Cut-Off Threshold	不保护 Non-Protection	2.6V/Cell	2.8V/Cell	<i>3.0V/Cell</i>	3.2V/Cell	3.4V/Cell			
启动模式(Punch) Start Mode(Punch)	Level1	Level2	Level3	Level4	<i>Level5</i>	Level6	Level7	Level8	Level9
最大刹车力度 Max Brake Force	25%	<i>50%</i>	75%	100%	Disable				

1. 运行模式(Running Mode):“正转带刹车(Forward with Brake)”模式下,车辆仅能前进和刹车,但不能倒车,该模式通常用于竞赛;“正反转带刹车(Forward/Reverse with Brake)”模式则提供了倒车功能,通常用于训练。“正反转带刹车”模式采用“双击式倒车”方式,即油门摇杆在第一次从中点区域推至反向区域时,电机只是刹车,不会产生倒车动作;当油门摇杆快速回到中立点区域并第二次推至反向区域时,如果此时电机已停止,则产生倒车动作,如果电机未停止,则不会倒车,仍是刹车,需要再次将油门回到中点并推向反向区,此时如果电机已经停止才会倒车,这样做的目的是防止车辆行驶过程中因多次点刹而造成误倒车。“直接正反转(Forward and Reverse)”模式采用单击式倒车方式,即油门摇杆从中点区域推至反向区域时,电机立即产生倒车动作,该模式一般用于攀爬车等特种车辆。

1. Running Mode: In “Forward with Brake” mode, the car can go forward and brake, but cannot go backward, this mode is suitable for competition; “Forward/Reverse with Brake” mode provides backward function, which is suitable for daily training.

Note: “Forward/Reverse with Brake” mode uses “Double-click” method to make the car go backward. When you move the throttle stick from forward zone to backward zone for the first time (The 1st “click”), the ESC begins to brake the motor, the motor speeds down but it is still running, not completely stopped, so the backward action is NOT happened immediately. When the throttle stick is moved to the backward zone again (The 2nd “click”), if the motor speed is slowed down to zero (i.e. stopped), the backward action will happen. The “Double-Click” method can prevent mistakenly reversing action when the brake is frequently used in steering.

By the way, in the process of braking or reversing, if the throttle stick is moved to forward zone, the motor will run forward at once. “Forward/Reverse” mode uses “Single-click” to make the car go backward. When you move the throttle stick from forward zone to backward zone, the car will go backward immediately. This mode is usually used for the Rock Crawler.

2. 拖刹(Drag Brake) 力度:拖刹是指当油门摇杆从正向区域转入中点区域内时,对电机产生一个微量的刹车力,这样做可以模拟有刷电机的碳刷对电机转子的阻力,适合减速入弯等场合。(值得注意的是,拖刹会消耗比较多的电量,使用中选择合适的拖刹力度即可)。

2. Drag Brake Force: Set the amount of drag brake applied at neutral throttle to simulate the slight braking effect of a neutral brushed motor while coasting.

3. 电池低压保护阈值(Low Voltage Cut-Off Threshold):这项功能主要是防止锂电池过度放电而造成不可恢复的损坏。电调会时刻监视电池电压,一旦电压低于设定的阈值,将切断动力输出。当进入电压保护后,红色 LED 会以“☆-, ☆-, ☆-”方式闪烁。对于 NiMH 电池,建议将此参数设置为“不保护(No Protection)”或者“2.6V/Cell”。

3. Low Voltage Cut-Off: The function prevents the lithium battery pack from over discharging. The ESC detects the battery's voltage at any time, if the voltage is lower than the threshold for 2 seconds, the output power will be cut off, and the red LED flashes in such a way: “☆-, ☆-, ☆-”.

4. 启动加速度 (Start Mode / Punch): 可根据个人习惯、场地、轮胎抓地特性等条件, 选择从 1 级 (“非常柔和”) 到 9 级 (“非常劲暴”) 等 9 种启动加速度, 这个功能对于防止启动时轮胎打滑非常有用。此外, 使用 “7 级” — “9 级” 模式时, 对电池的放电能力要求较高, 若电池放电能力较差, 不能提供瞬时大电流, 则反而会影响启动效果。当启动时出现停顿或瞬间失去动力时, 则可能是电池放电能力不足引起的, 这时需要降低启动加速度, 或将齿轮减速比增大。

4. Start Mode (Also called “Punch”): Select from “Level1” to “Level9” as you like. Level1 has a very soft start effect, while level9 has a very aggressive start effect. From Level1 to Level9, the start force is increasing. Please note that if you choose “Level7” to “Level9” mode, you must use good quality battery with powerful discharge ability, otherwise these modes cannot get the burst start effect as you want. If the motor cannot run smoothly (that means the motor is trembling), it may caused by the weak discharge ability of the battery, please choose a better one or a softer gear ratio.

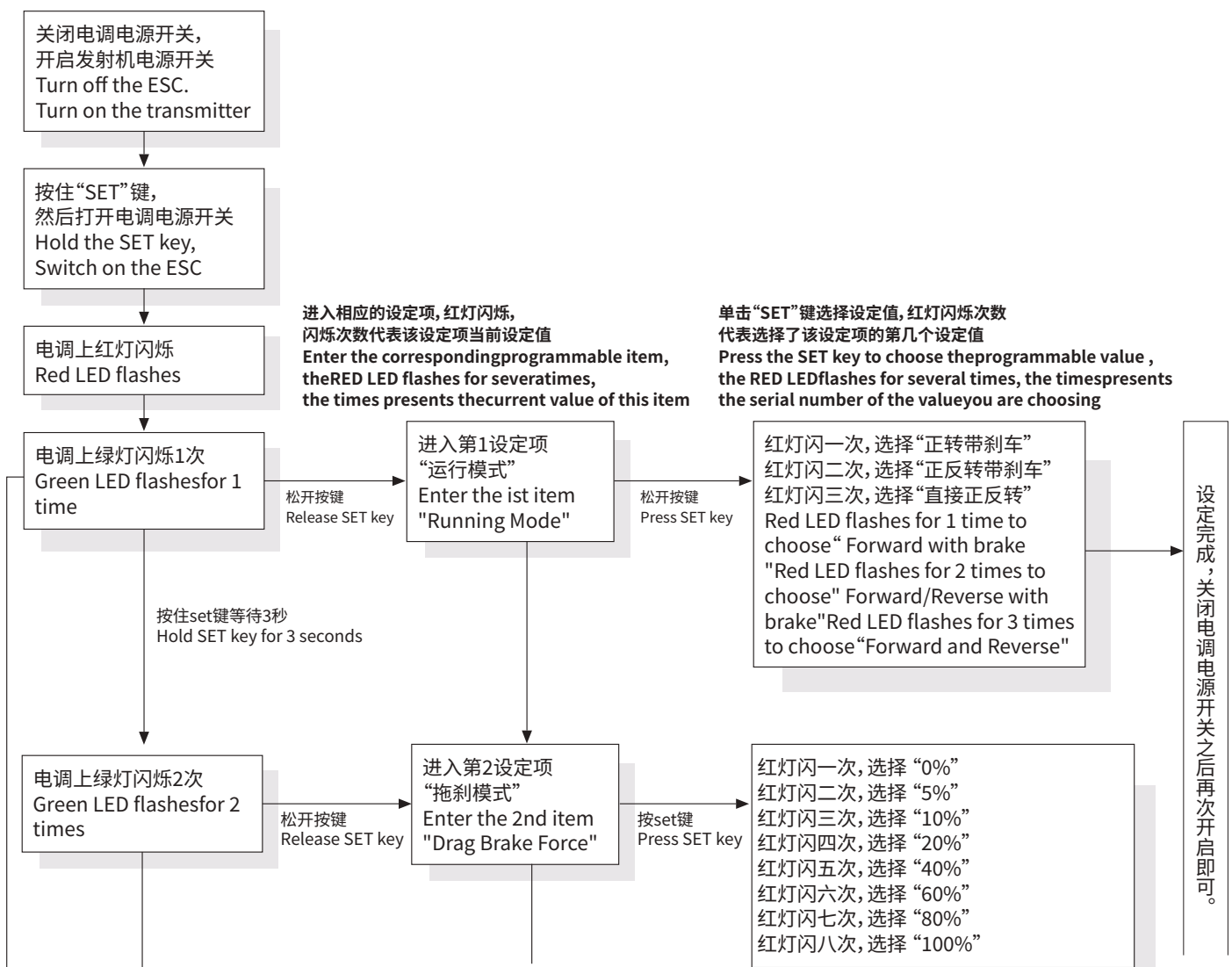
5. 最大刹车力度 (Max Brake Force): 本电调提供比例式刹车功能, 刹车力度的大小和油门摇杆的位置相关, 最大刹车力是指油门摇杆处于刹车极限位置时所产生的刹车力。请根据车辆的具体情况个人的使用习惯, 选择合适的最大刹车力参数。“Disable” 参数可禁用电调自身提供的刹车功能, 从而适用于传统的机械式刹车系统 (即刹车功能由舵机带动碟刹机构完成)。

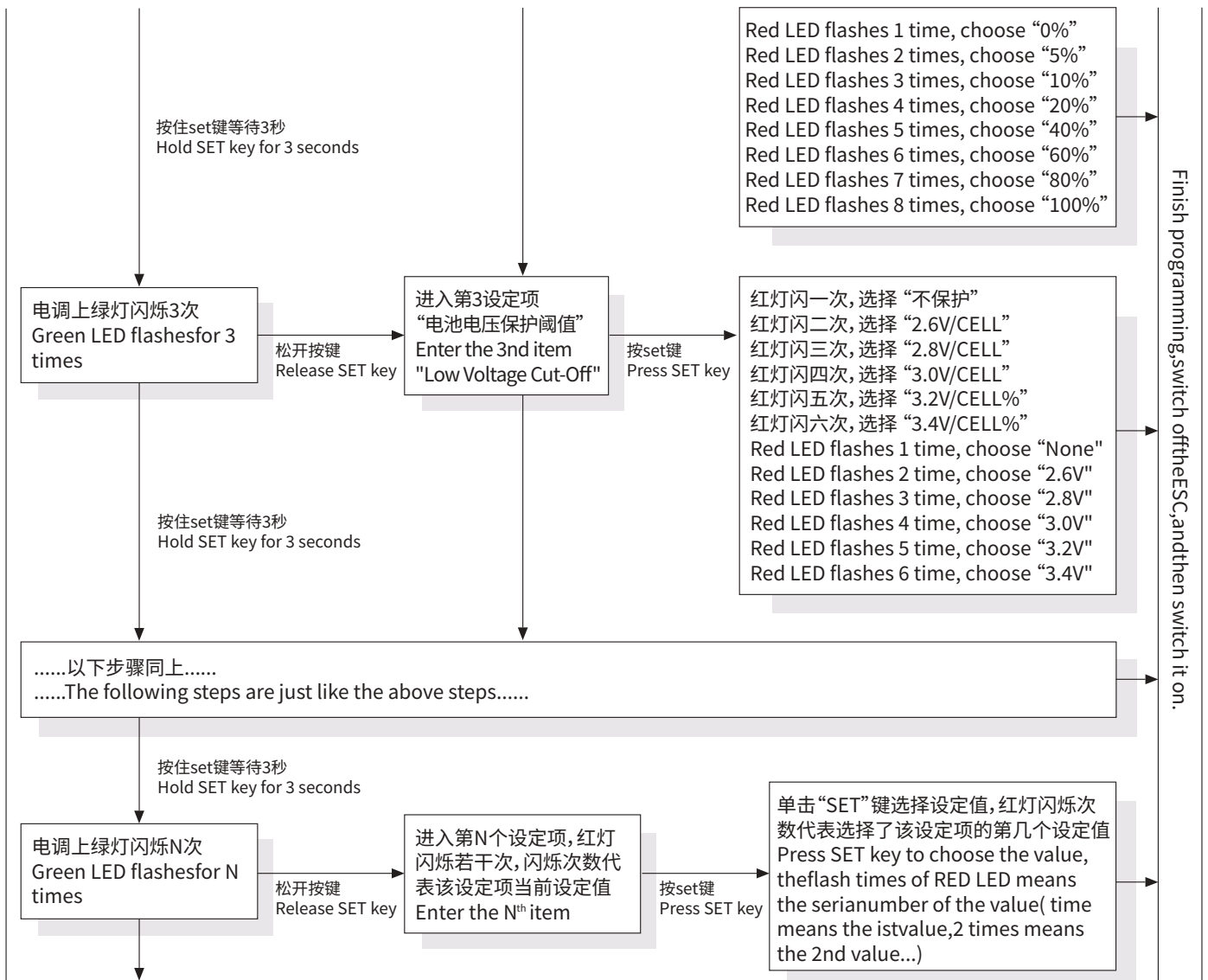
5. Maximum Brake Force: The ESC provides proportional brake function. The brake force is related to the position of the throttle stick. Maximum brake force refers to the force when the throttle stick is located at the end point of the backward zone. A very large brake force can shorten the brake time, but it may damage the gears. The “Disable” option inhibits the inherent brake function of the speed controller. When this option is selected, the brake function is realized by a traditional mechanical disc-brake system driven by a servo.

Program The ESC 编程方法

1. 利用电调上的编程按键进行参数设置, 设置方法如下:

1. Program the ESC with the SET button on the ESC:





1) 指示灯闪烁的同时, 电机发出鸣音“哔”, 以便于识别。

In the program process, the motor will emit “Beep” tone when the LED is flashing.

2) 当 $N \geq 5$ 时, 我们使用一次较长时间的指示灯闪烁(同时伴有一次较长时间的鸣音)来表示数字“5”。比如, 电调上绿灯长闪一次(同时电机发出一次长鸣音“哔——”), 表示进入第5设定项或者第5个参数值; 若电调上绿灯长闪一次再短闪一次(同时电机发出一次长鸣音“哔——”和一次短鸣音“哔”), 表示进入第6个参数值。依次类推, 第7参数值为“哔——哔哔”, 第8参数值为“哔——哔哔哔”.....

We use a long time flash and long “Beep---” tone to represent number “5” for easily identify the items of the big number.

“A long time flash” (Motor sounds “B---”) = the No. 5 item

“A long time flash + a short time flash” (Motor sounds “B---B”) = the No. 6 item

“A long time flash + 2 short times flash” (Motor sounds “B---BB”) = the No. 7 item

“A long time flash + 3 short times flash” (Motor sounds “B---BBB”) = the No. 8 item

“A long time flash + 4 short times flash” (Motor sounds “B---BBBB”) = the No. 9 item

2. 利用 LED 参数设定卡进行参数设置:

编程设定卡为车用电调的升级选配件, 体积小巧, 适合外场使用。其界面直观, 参数读取和设定过程十分简单快捷。调整参数时, 只需将电调上的控制排线插入编程卡右上角标注着的插座中, 然后给电调接上电源, 数秒后该电调的各项参数即可显示出来。利用编程卡上的“ITEM”和“VALUE”按键即可快速选择编程项目和参数值, 然后按“OK”键后, 新参数即可存入电调中。(详情请参阅 LED 参数编程设定卡说明书)

2. Program the ESC with the LED program box:

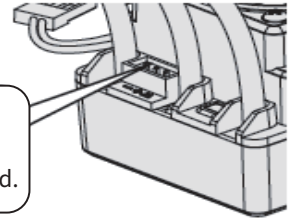
The Program Card is optional equipment which needs to be purchased separately. It has 3 digital LEDs to display the programmable items' number and the options' number. (Please refer to the user manual of the program card for detail info)



这些电调仅能通过其专用编程接口(即风扇接口)和设定卡相连!如使用电调上的接收机控制线连接设定卡,则设定卡无法工作!

The Rx wire of the ESC (for connecting receiver) CANNOT be used to connect with the LED Program Card. Please only use the special port between the terminals ABC to connect with the Program Card.

在此独立编程口,连接参数设定卡
External Programming
Port for Connecting Program Card.



Reset All Items To Default Values 恢复出厂参数设定

当油门处于中位区时(除油门校准或参数编程过程外),长按“SET”键超过3秒,红色LED与绿色LED将同时闪烁,表示所有可编程项目已恢复至默认值。需重启设备以完成整个流程。

At any time when the throttle is located in neutral zone (except in the throttle calibration or parameters program process), hold the "SET" key for over 3 seconds, the red LED and green LED will flash at the same time, which means each programmable item has been reset to its default value. It needs to be restarted to complete the whole process.

Trouble Shooting 故障快速处理

故障现象 Trouble	可能原因 Possible Reason	解决方法 Solution
上电后指示灯不亮,电机无法启动,风扇不转 After power on, motor doesn't work, and the cooling fan doesn't work	1. 电池电压没有输入到电调 2. 电调开关损坏 The connections between battery pack and ESC are not correct	检查电源输入通路是否有焊接不良情况,并重新焊好,更换开关 Check the power connections Replace the conn
上电后电机无法启动,发出“哔—哔—, 哔—哔—”警示音且伴有绿灯闪烁(每组双音间隔时间为1秒) After power on, motor can't work, but emits "beep-beep-, beep-beep-" alert tone. (Every "beep-beep-" has a time interval of 1 second)	电池组电压不在正常范围内 Input voltage is abnormal, too high or too low	检查电池组电压。 Check the voltage of the battery pack
上电完成锂电节数检测后(闪N次绿灯),红灯快速闪烁。 After the ESC was powered on and finished LiPo cells detection (the GREEN LED flashed N times), and then the RED LED flashed rapidly	1. 电调未检测到油门信号 2. 电调油门中点与遥控器不匹配 1. The ESC didn't detect any throttle signal. 2. The neutral throttle value stored on your ESC is different from the value stored on the transmitter	1. 检查油门线是否插反、通道是否插错、控是否有开启 2. 油门归中位, 1. Check if the throttle wire is reversely plugged in or in the wrong channel and if the transmitter is turned on. 2. Re-calibrate the throttle range after you release the throttle trigger to the neutral position
遥控器正向加大油门,车子反而倒退 The motor runs in the opposite direction when it is acceler	1. 电调输出线和电机线连接的线序错误 2. 该车架同主流车架的电机转向不一 1. The (ESC-to-motor) wiring order was incorrect 2. Your chassis is different from popular chassis	将电机的三条线中任意两条互换即可。 Swap any two wire connections between the ESC and the motor
电机转动过程中,突然停转或功率输出显著降低 The motor suddenly stops running while in working state	1. 接收机遇到干扰 2. 电调进入电池低压保护状态 3. 电调进入过温保护 1. The throttle signal is lost 2. The ESC has entered the Low Voltage Protection Mode or Over-heat Protection Mode	1. 检查接收机出现干扰的原因,检查发射机电池电量 2. 红灯持续闪烁为电压保护,请更换电池 3. 绿灯持续闪烁为温度保护,请等电调温度降低后继续使用 1. Check the transmitter and the receiver 2. Check the signal wire from the throttle channel of your receiver 3. Red LED flashing means Low Voltage. Green LED flashing means Over-heat

故障现象 Trouble	可能原因 Possible Reason	解决方法 Solution
前进正常, 但无法倒车 The vehicle could run forward (and brake), but could not reverse	1. 遥控器油门通道中点偏离到刹车区域 2. 参数项“运行模式”设置错误 3. 电调损 1. The throttle neutral position on your transmitter was actually in the braking zone 2. Set the "Running Mode" improperly 3. The ESC was damaged	1. 重新校准油门通道中点, 使遥控器油门摇杆置于中位时, 电调上的指示灯不亮 2. 参数项“运行模式”设置为“正反转带刹车” 3. 联系经销商处理维修 1. Re-calibrate the throttle neutral position. No LED on the ESC will come on when the throttle trigger is at the neutral position 2. Set the “running mode” to “Forward/Reverse with Brake” 3. Contact the distributor for repair or other customer services
油门在中点时, 车子缓慢前进或缓慢后退 The car ran forward/backward slowly when the throttle trigger was at the neutral position	1. 遥控器中位有所漂移, 信号不稳 2. 油门行程没校 1. The neutral position on the transmitter was not stable, so signals were not stable either 2. The ESC calibration was not proper	1. 更换信号稳定的遥控器 2. 重新校准油门行程, 或使用控的油门微调校准中点 1. Replace your transmitter 2. Re-calibrate the throttle range or fine tune the neutral position on the transmitter
连接 LED 设定卡, LED 一直显示三条端横线—— The LED program card kept display 3 short lines (---) after you connected it to your ESC	电调编程接口连接错误 The programming card box was connected to the ESC via the throttle control cable (Rx cable)	使用正确的接口连接编程盒, 此电调为风扇接口 It is wrong to use the Rx cable to connect programming card/box. The programming port of this ESC is also the fan port, so please connect the ESC and programming card/box by plugging the programming cable into the fan port.

Installing Trasnmittter Batteries

遥控器电池安装

1) 按箭头方向滑动, 拆下或者安装发射机电池盖。

Remove the battery cover from the transmitter (Slide cover as shown arrow direction)

2) 装4颗电量充足的AA电池, 注意电池尺寸正负极如图所示示意, 不要装反。

Install 4 AA batteries with sufficient power as shown. Taking care to align the battery polarity.

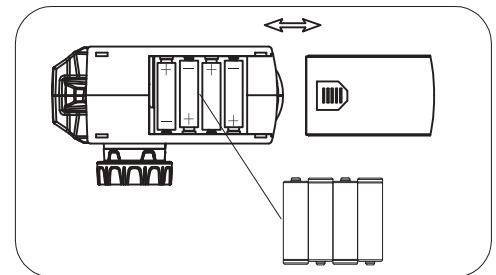
3) 不要混用新旧或不同类型的电池. 更换电池型号不正确, 或给非充电电池充电有爆炸危险。

Never use different batteries or mixed old and new batteries. Risk of explosion if battery is replaced by an incorrect type or charging non-rechargeable batteries.

4) 定期检查遥控器上电池电量。电池电量不足情况下, 不能操作车子, 信号会遭受影响, 车子可能瞬间失控, 导致发生碰撞或伤害。长时间不使用时请将电池从遥控器内取出。

Check the transmitter battery level regularly. Never operate your model with low transmitter batteries as the radio signal will be interfered, it may cause the car to lose control and crash or injury.

When not in use for a long time, please remove the battery from the transmitter.



Driving Precautions

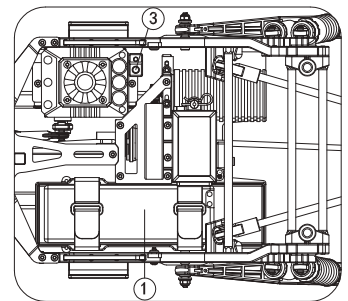
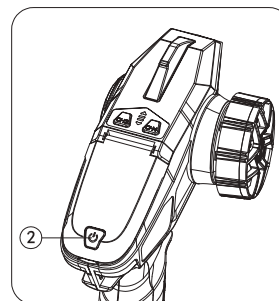
操作模型车

Power ON 开机

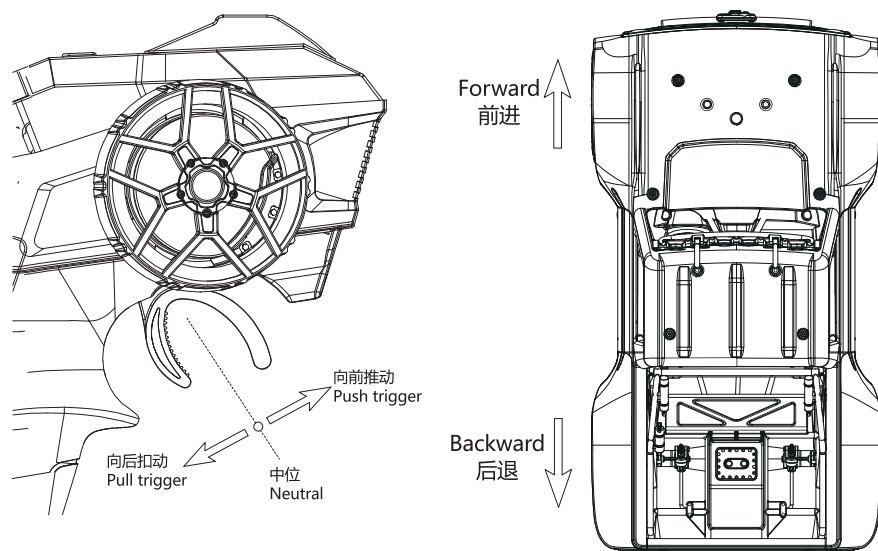
1) 将充满电的电池放入电池盒, 连接好电池与电调线插头, 注意孔位正确。
Install a fully charged battery pack into the vehicle battery box. Connect the battery power lead to the ESC wires plug, noting proper polarity.

2) 打开遥控器电源开关, 遥控器电源指示灯点亮。
Power ON the transmitter, the battery Indicator lights.

3) 打开电调电源开关, 电调指示灯点亮, 控制系统进入工作状态
Turn on ESC Power Switch, the LED Lights, indicating control system enters working status.



Forward & Backward 前进和后退



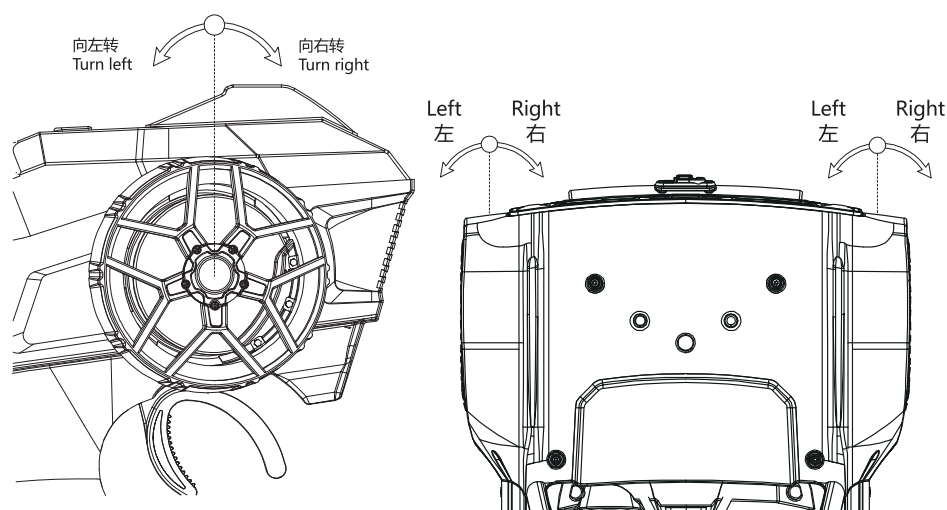
用手指向后扣动遥控器扳机，车将向行驶。
用手指向前推动扳机一次为刹车，松开手指
待扳机回到中位后再向前推动则为倒车。

To move the vehicle forward, pull the Throttle trigger.

Push the trigger forward once to brake;

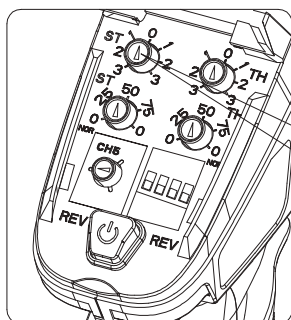
Release trigger and wait until trigger returns to the neutral position then push it forward again, the vehicle will move backward.

Change direction 转向

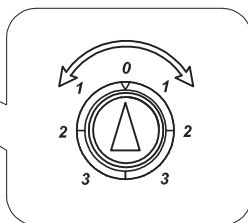


车前轮的运动是随遥控器转向轮的调整而改变的。
遥控器转向轮向左转，车前轮也是左转。
遥控器转向轮向右转，车前轮也是右转。

The front wheel movement is controlled by transmitter steering wheel.
The vehicle front wheel turns left when you turn transmitter steering wheel left.
The vehicle front wheel turns right when you turn transmitter steering wheel right.

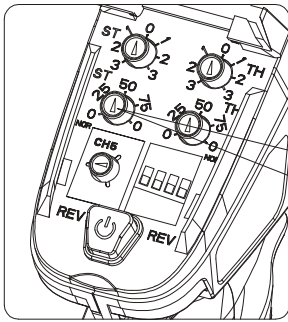


转向中位微调
Steering trim

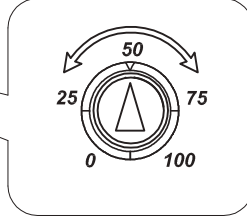


在没有操控转向轮的情况下，车辆前轮应该处于中心位置。
如果前轮偏向左侧，请顺时针转动转向微调旋钮进行微调。
如果前轮偏向右侧，请逆时针转动转向微调旋钮进行微调。

Without turning transmitter steering, the vehicle front wheels should maintain a straight line. If not, adjust ST Trim knob until the vehicle tracks straight. If the front wheel is tilted to the left, fine tuning ST Trim knob clockwise. If the front wheel is tilted to the right, fine tuning ST Trim knob counterclockwise.

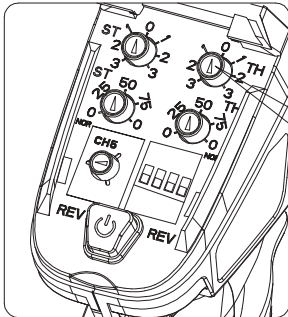


转向角度舵量调整旋钮
Steering End Point Adjustment

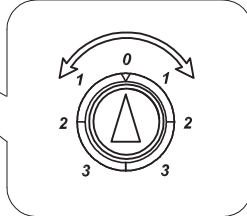


调整转向角度舵量大小，来适应不同弯角路面的行使需要。
顺时针转动该微调旋钮，可以将转向角度调整到最大。
逆时针转动该微调旋钮，可以将转向角度调整到最小。

Adjust Steering End Point to help adapt to different terrains.
Clockwise twist this knob: adjust to the maximum steering angles.
Counterclockwise twist this knob: adjust to the minimum steering angles.

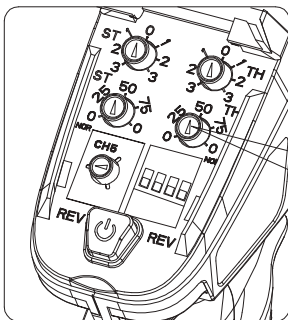


油门中位微调
Throttle Trim

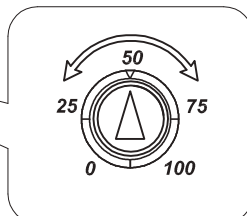


在没有操控油门扳机的情况下，车辆应该处于静止状态。
如果车子自行前进，请逆时针转动油门中位微调旋钮进行微调。
如果车子自行后退，请顺时针转动油门中位微调旋钮进行微调。

Without operating throttle trigger, the vehicle should be motionless.
If vehicle moves forward, counterclockwise adjust Throttle Trim knob.
If vehicle moves backward, clockwise adjust Throttle Trim knob.

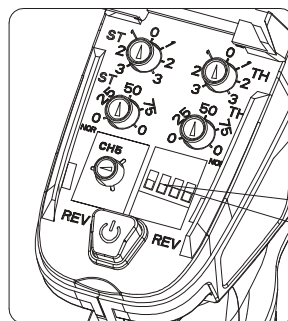


油门限速旋钮
Throttle Limit

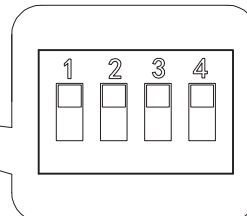


设定遥控油门限速旋钮控制量大小，逆时针旋转是降低控制量（最低可以降到0%），顺时针旋转是加大控制量（最高值为100%正常油门控制量）。
对于初学者而言，可以先尝试调低油门控制量来适应车辆。

Set Throttle Limit knob to limits throttle output.
Counterclockwise Throttle Limit knob to reduce the limit output(minimum 0%)
Clockwise adjust Throttle Limit knob to increase the limit output(maximum 100% is for normal)
Suggest the less experienced select Throttle Limit to reduce speed.

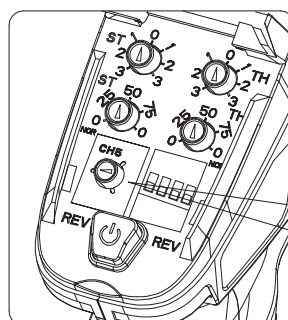


正反切换开关
Reverse switch

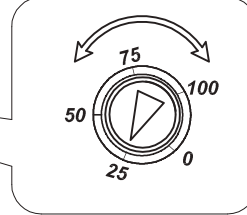


如果遥控的操作与车辆动作不一致，请调整此正反切换开关，直至遥控操作和车辆动作一致。

If the operation on transmitter is inconsistent with the vehicle actual performs (forward/backward, left/right), please adjust this switch to correct.



陀螺仪感度调节
Gyro sensitivity adjustment



通过CH5通道旋钮可以调整陀螺仪感度。
旋钮顺时针旋转，增加感度。
旋钮逆时针旋转，降低感度。

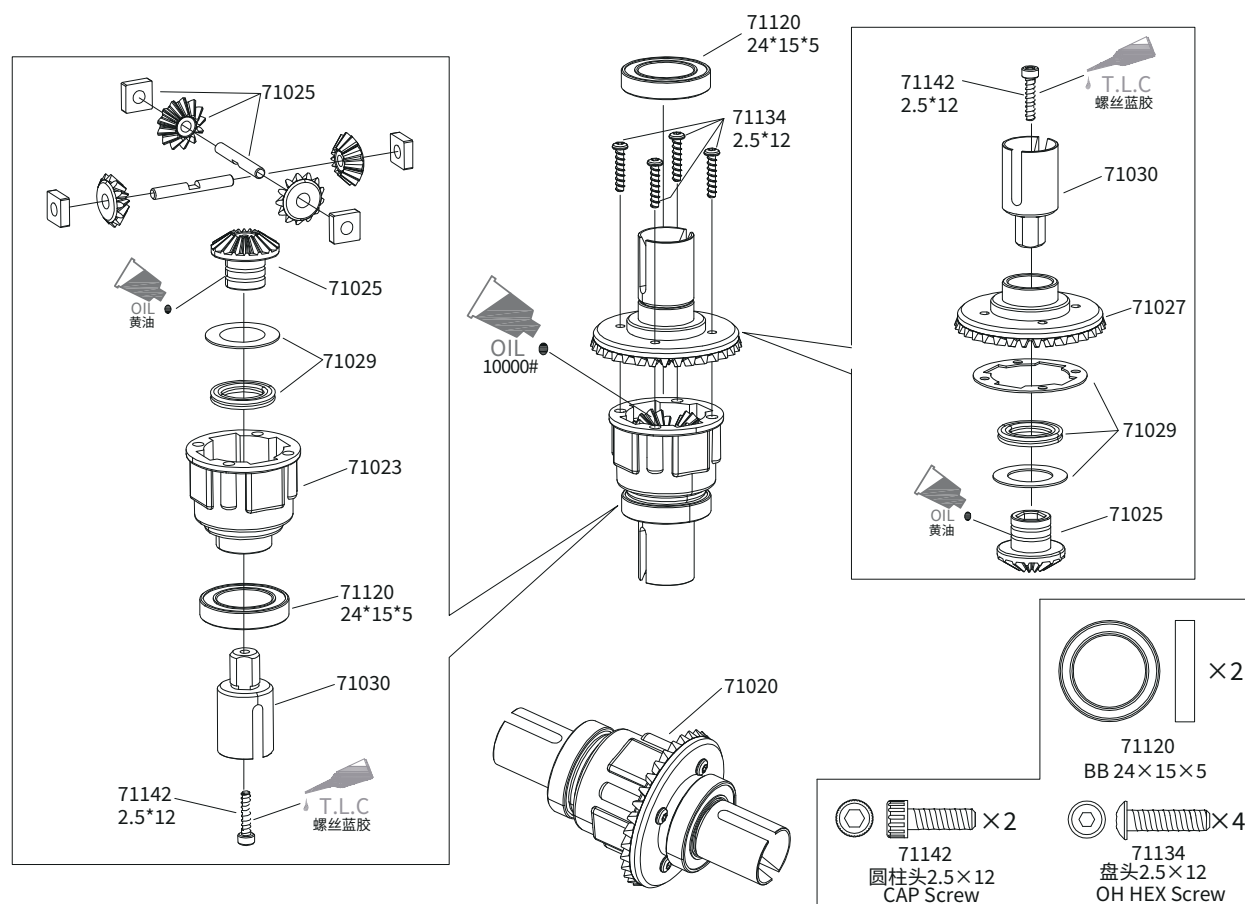
⚠ 本产品陀螺仪感度，建议设置在20-30%
The gyro sensitivity can be adjusted using the transmitter CH5 channel knob :
To increase the sensitivity, rotate the CH5 knob in a clockwise direction.
To decrease the sensitivity, rotate the CH5 knob in a counterclockwise direction.
For this product performance, it is recommended to set the gyro sensitivity between 20%-30%.

	故障现象 Problems	故障分析 Causes	故障排除 Solutions
遥控器 Transmitter	电源指示灯不亮 LED does not work.	电池没电或电池安装错误 Weak batteries or batteries are not installed properly.	更换新的电池或检查正负极 Replace with new batteries or install them correctly.
	电源指示灯频率式慢闪 LED flashes slowly.	电池电量不足 Low battery power.	更换新的电池 Replace with new batteries
	指示灯正常亮起, 但是无功能, 无法操控车辆 Switch on, normal LED indicate. but no function and cannot operate vehicle	周围可能有其它正在运行的电子产品导致的遥控频率干扰 Signal interference with other transmitters around you.	重启模型车和遥控器或更换场地 Switch off firstly,and then switch on again or change to other places
模型车 Car	接通电源后指示灯不亮 Connected, but the indicator is off.	电池没电或电池过放而损坏, 或电路接线破损 The battery pack is flat or damaged. The connectors and wires may break	更换为已充电的电池, 检查电池或线路是否损坏 Charge the battery pack and replace with the new battery pack when needed,check all wires and connectors.
	转向异常或失灵 Abnormal or faulty steering	检查是否有杂物阻塞转向结构, 或转向部件或舵机已损坏 Steering device is jammed or steering servo is damaged.	检查所有部件, 更换损坏的或磨损的部件 Check all the steering parts and/or steering servo.Fix or replace with new parts if needed
	能转向, 但无法前进或后退 Steering functions, but the car is not able to go forwards or backwards.	电池电力不足, The battery pack is flat. 传动部件损坏或被杂物阻塞, Damaged or clogged parts in drive train 电调功能异常 ESC malfunctions.	更换为已充电电池 Charge the battery pack 清理与更换部件, Clean,fix and replace with new parts 更换电调 Replace with new ESC
	模型车行驶时噪音大 The car drives noisily.	检查是否有杂物阻塞传动部件, 或传动部件损坏或脱落, 检查齿轮齿合度, 检查并分析差速器齿轮是否已出现扫齿、崩牙等现象。 Check if the drive train is tight or blocked or damaged driving parts; Check the gear mesh and check if the diff is damaged or not.	及时更换已损坏的齿轮、传动轴、传动接杯或差速 Replace with new gears,diff driveshafts,outdrivecups in the event that they are damaged.Do not use the car until it has been repaired.

- 1)车辆需要经常保养, 以保持其性能, 特别是活动的零件部位, 每次跑车完及时清除上面的尘土杂物。保持车辆清洁和良好的保养。
Periodic maintenance in order to ensure the vehicle best performance, especially the running parts. Remove chassis free of dirt and debris after every driving. Keep your vehicle clean and well maintained.
- 2)定期检查车上有螺丝的地方, 有必要就拧紧加固。
Regularly check the screws on the car and tighten them if necessary.
- 3)经常检查车上面磨损/弯曲/坏掉的部件, 有必要就换掉。
Always check for wear/broken/bent parts, and replace it if necessary.
- 4)所有的零件都可以作为散件在爆炸图上找到编号, 有损坏可以在零售商订购更换。有任何问题, 都可以在零售商寻求帮助。
All parts listed on the exploded view. Damages can be ordered at the retailer. If you have any questions, you can ask for help at the retailer.

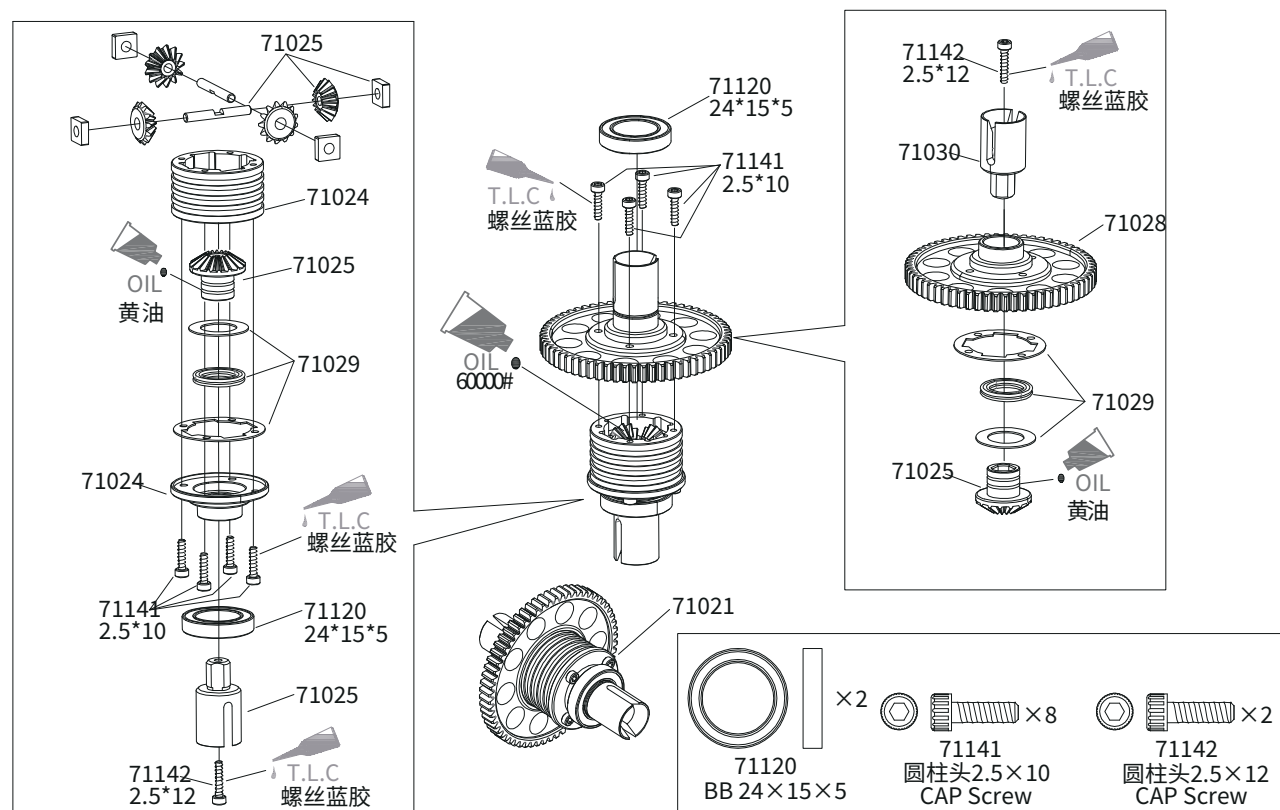
Front Differential Gear Assembly

前差速器组装



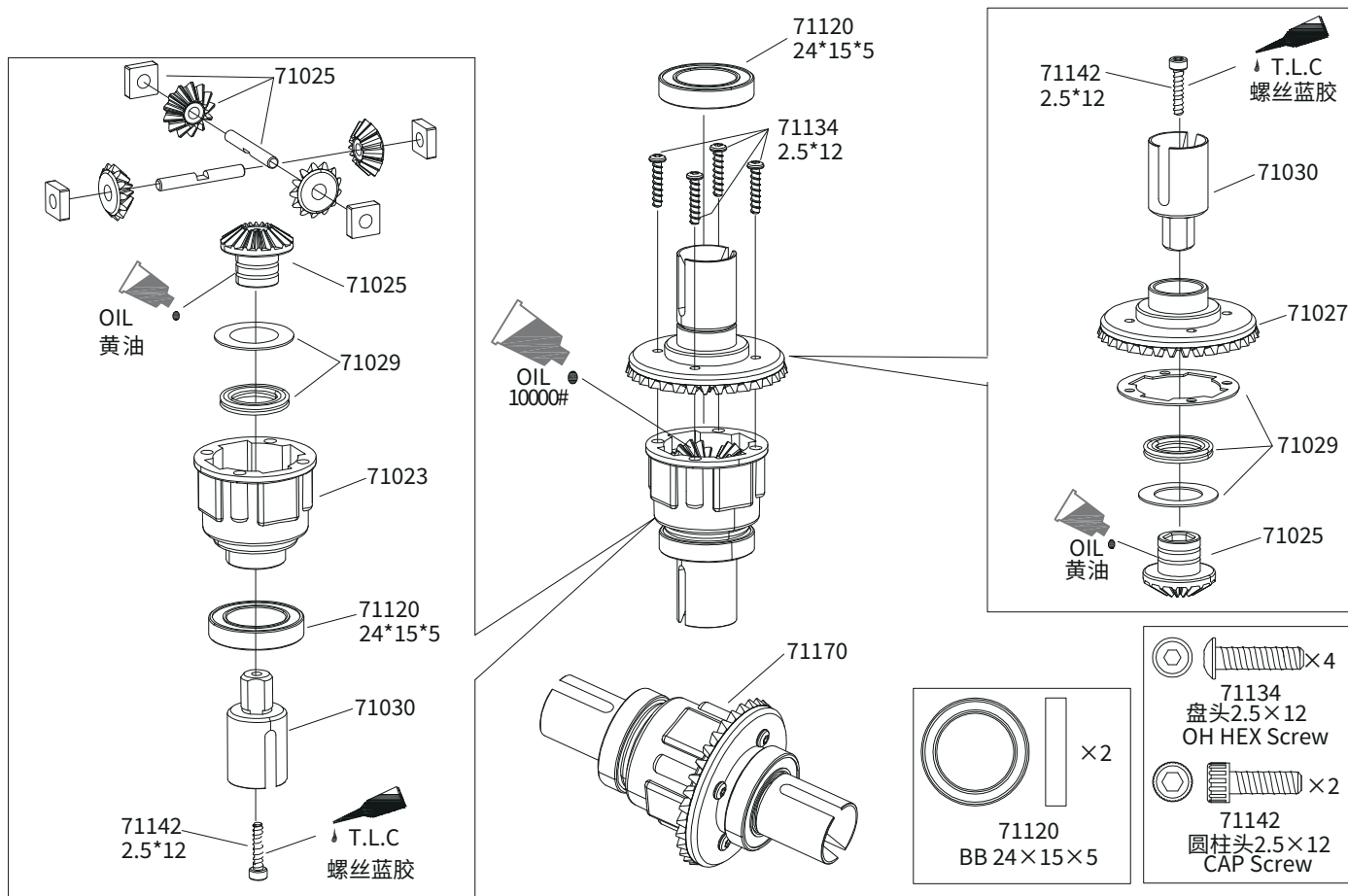
Center Differential Gear Assembly

中差速器组装



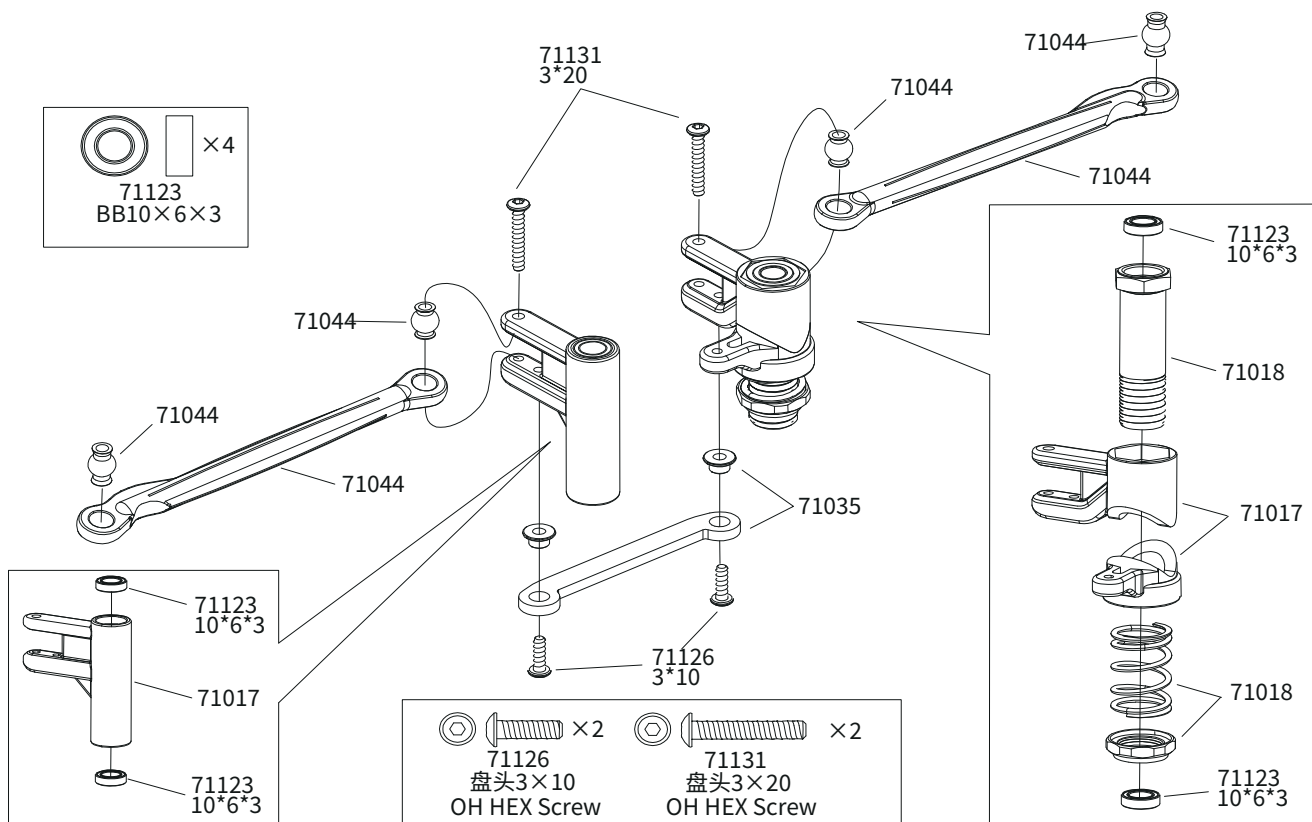
Rear Differential Gear Assembly

后差速器组装



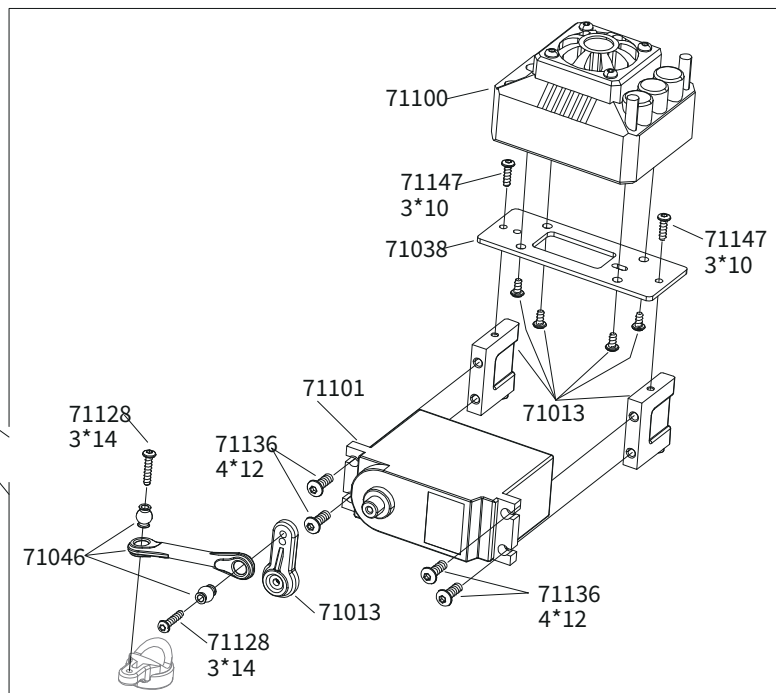
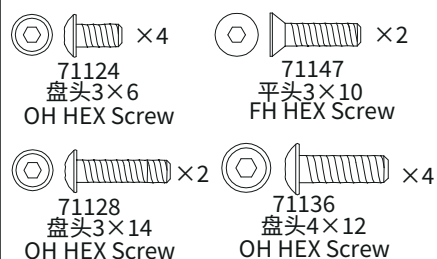
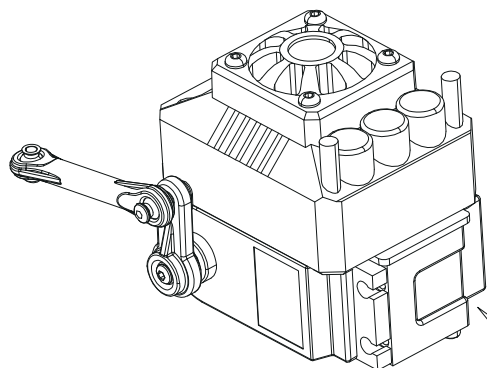
Steering Servo Saver Assembly

转向缓冲组装



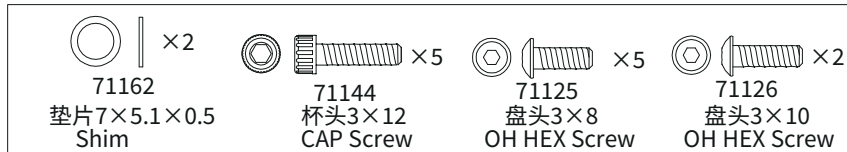
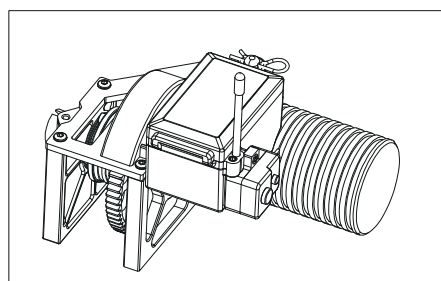
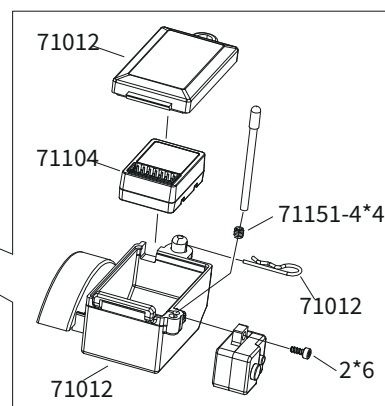
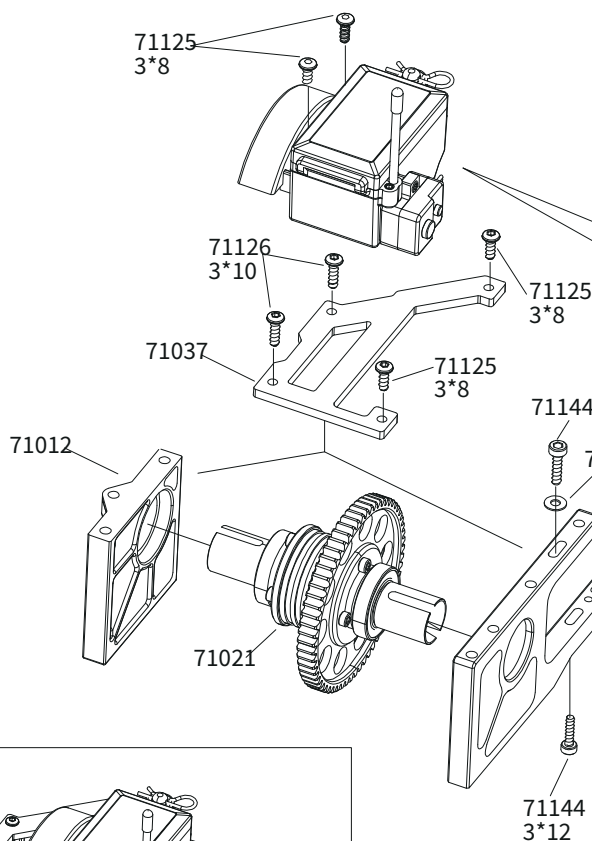
Steering Servo Assembly

转向舵机组装



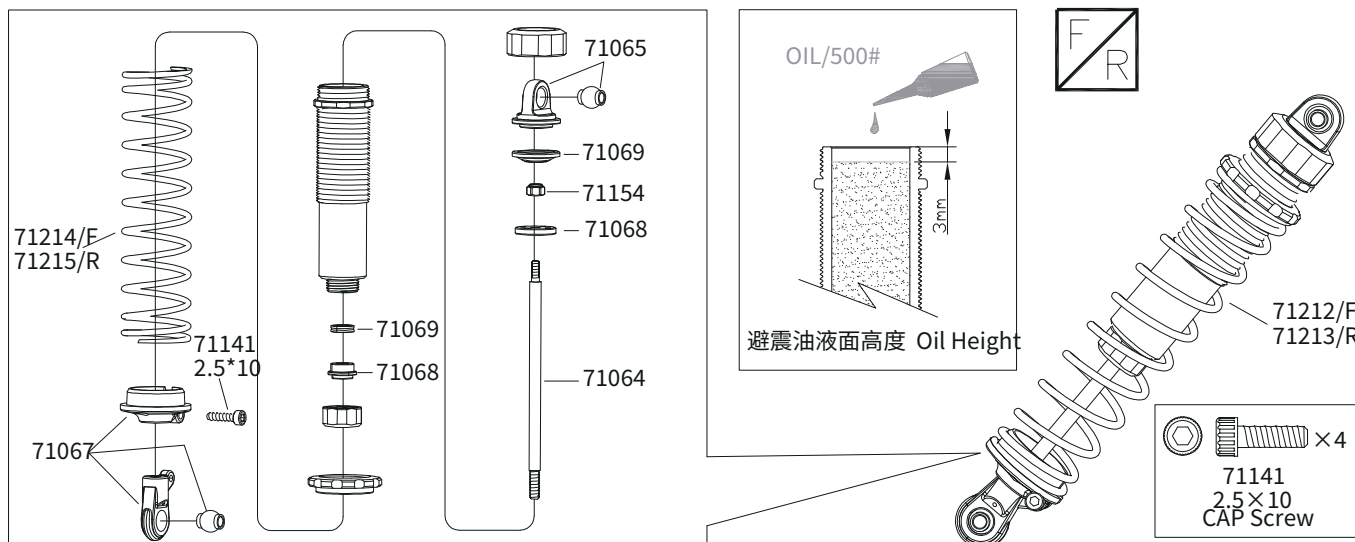
Center Differential Assembly

中差组装



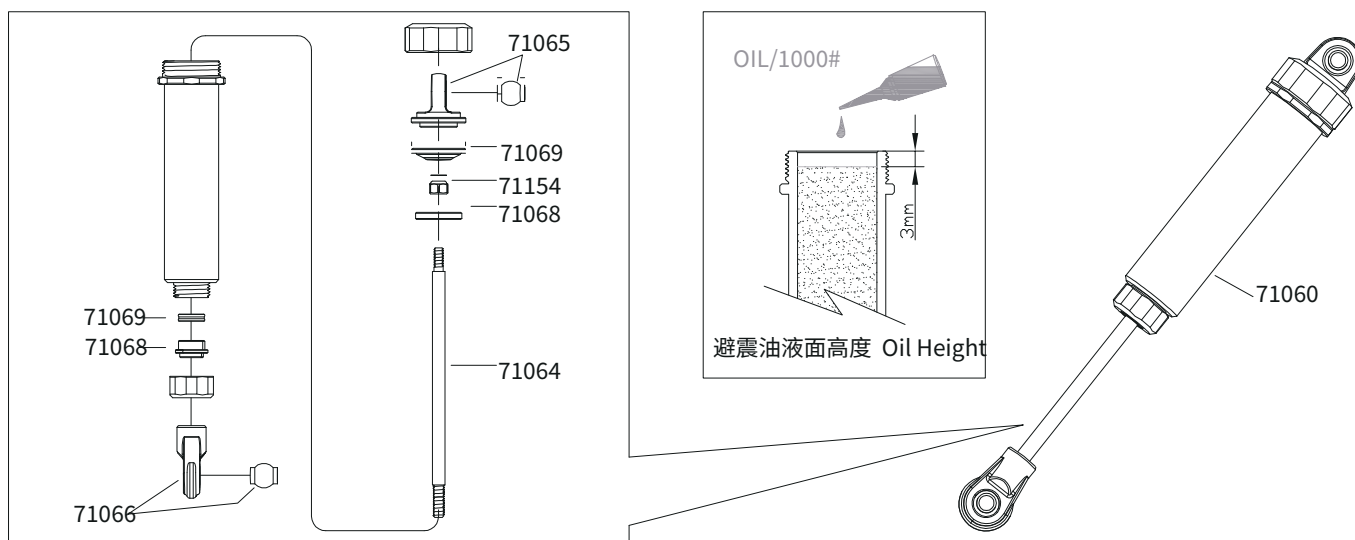
Shock Front/Rear Assembly

避震器前/后组装



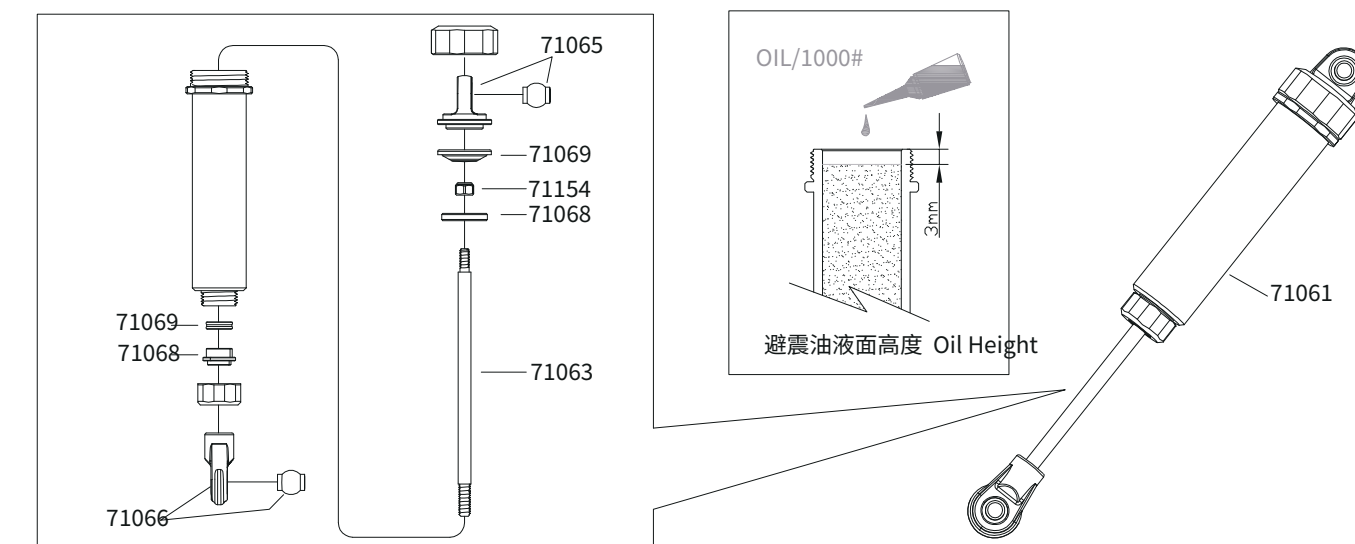
Front Shock Assembly

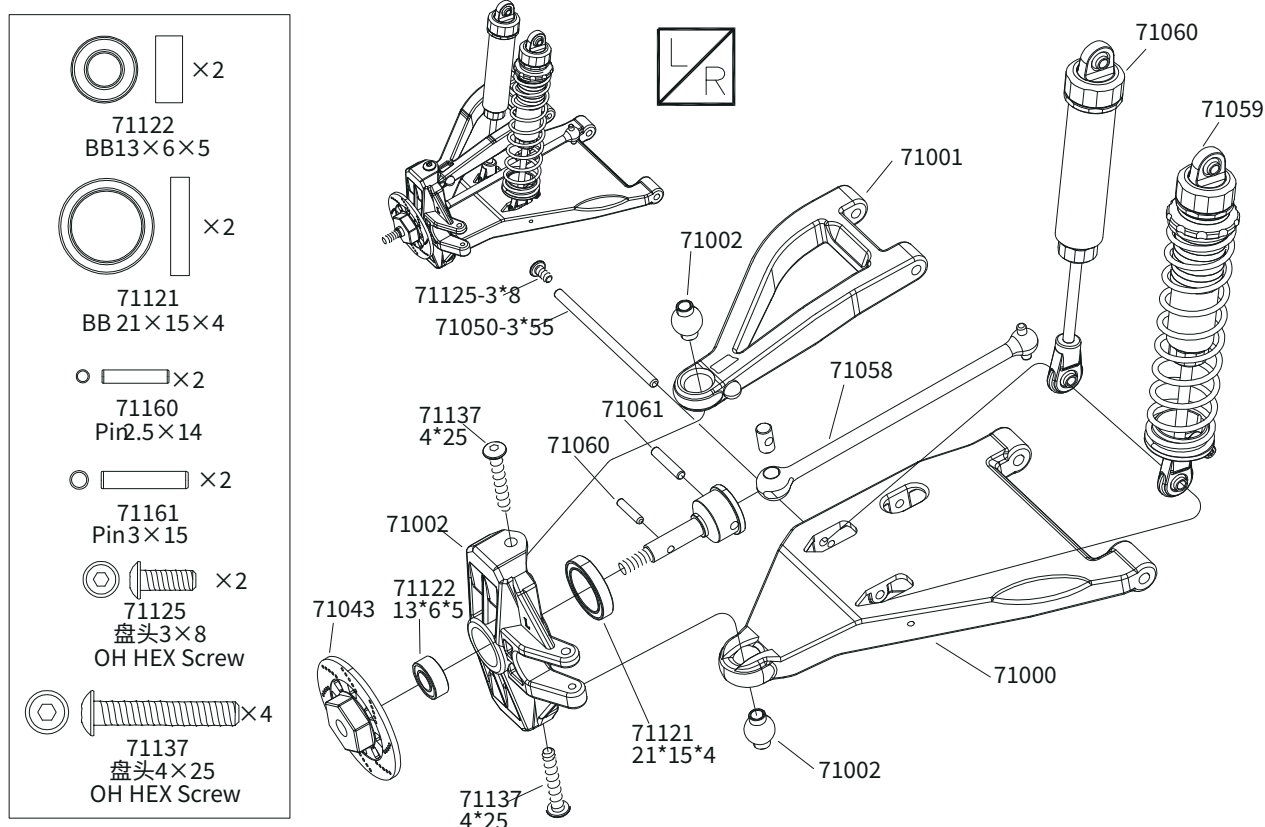
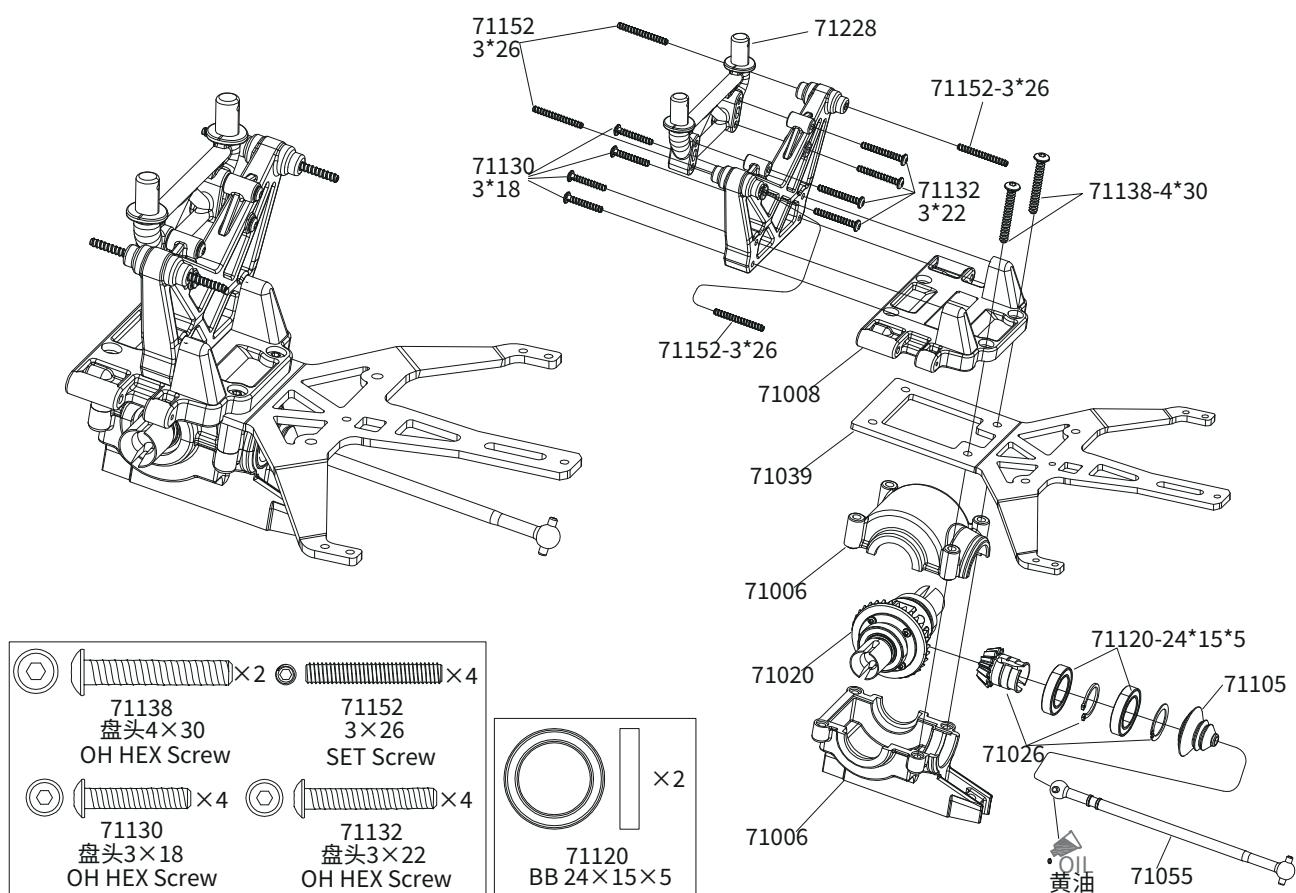
避震器前组装



Rear Shock Assembly

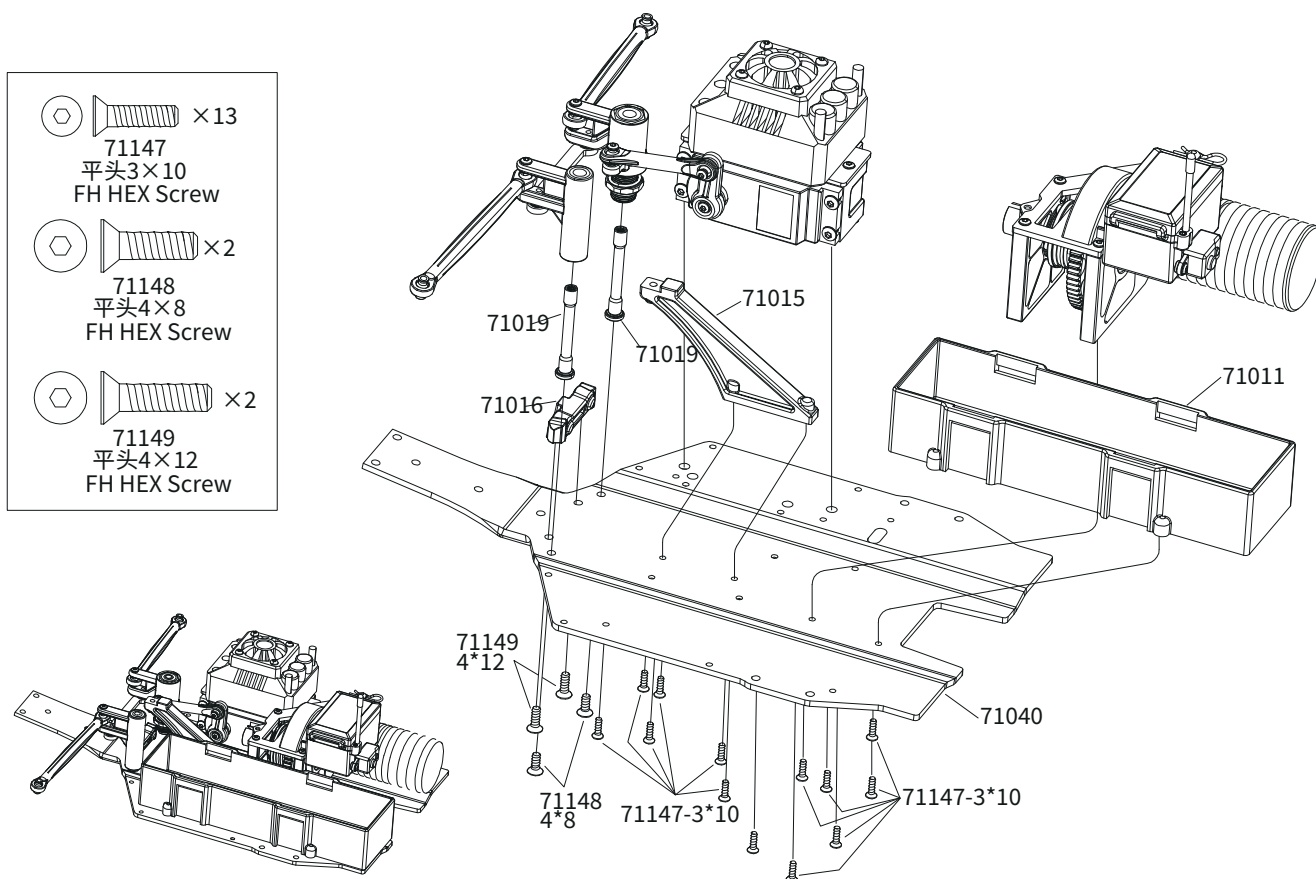
避震器后组装





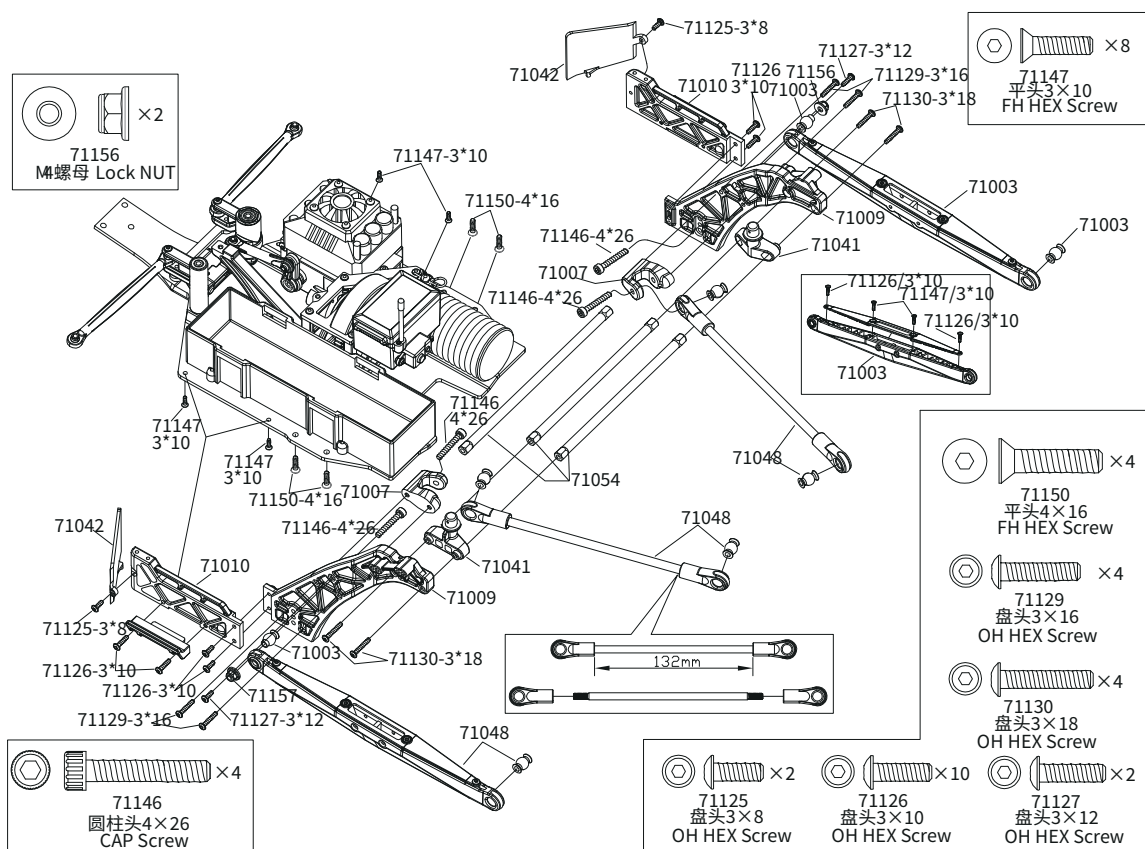
Center Assembly

中段组装



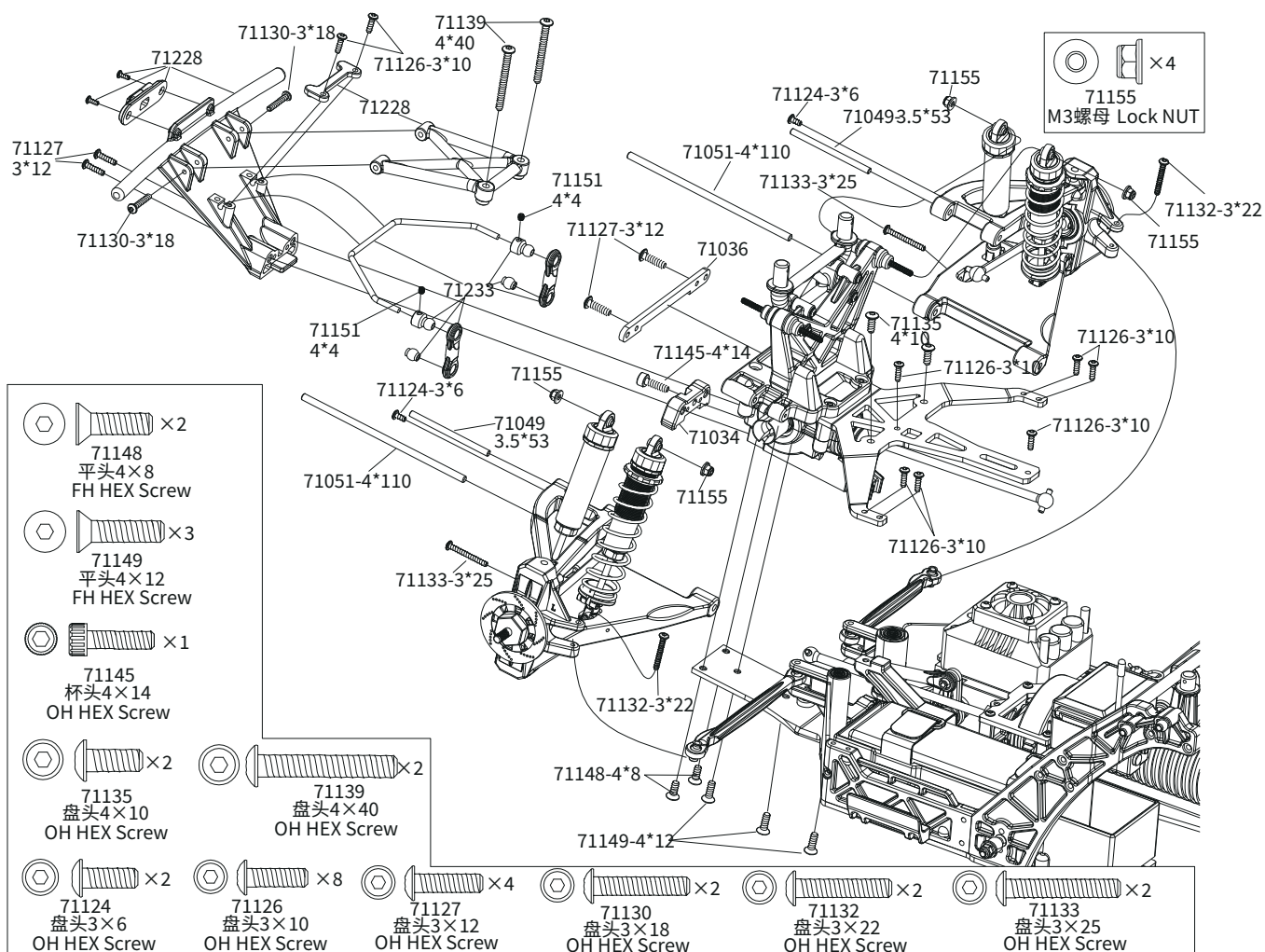
Rear Assembly

后段组装



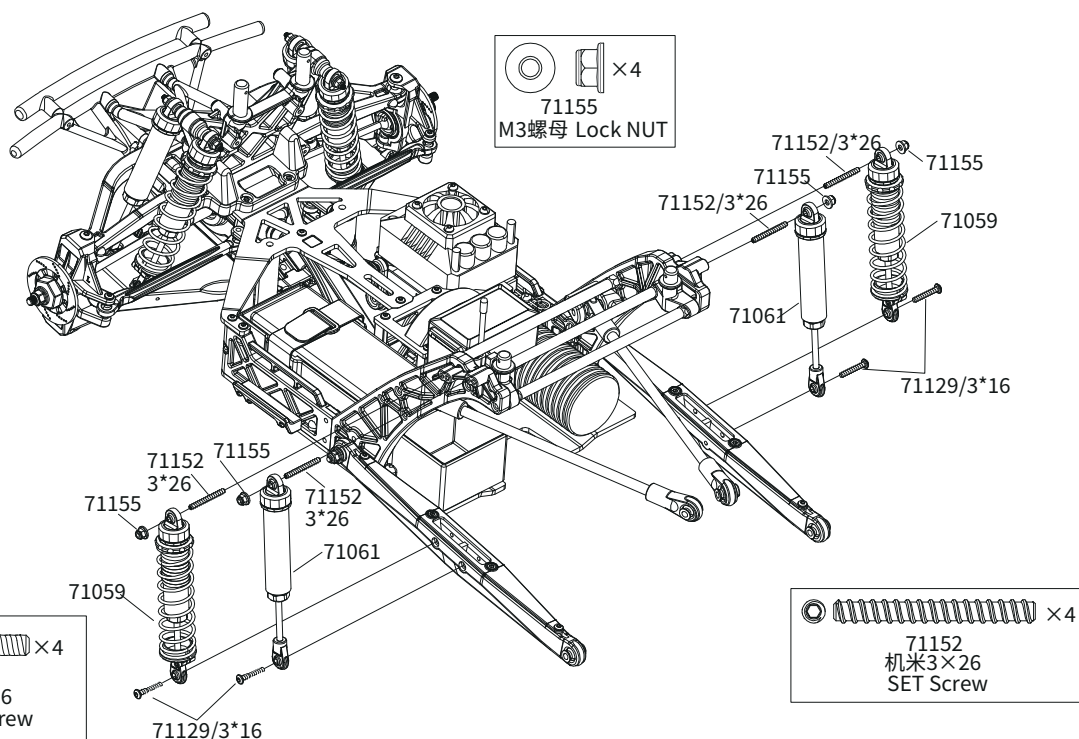
Front Assembly

前段组装



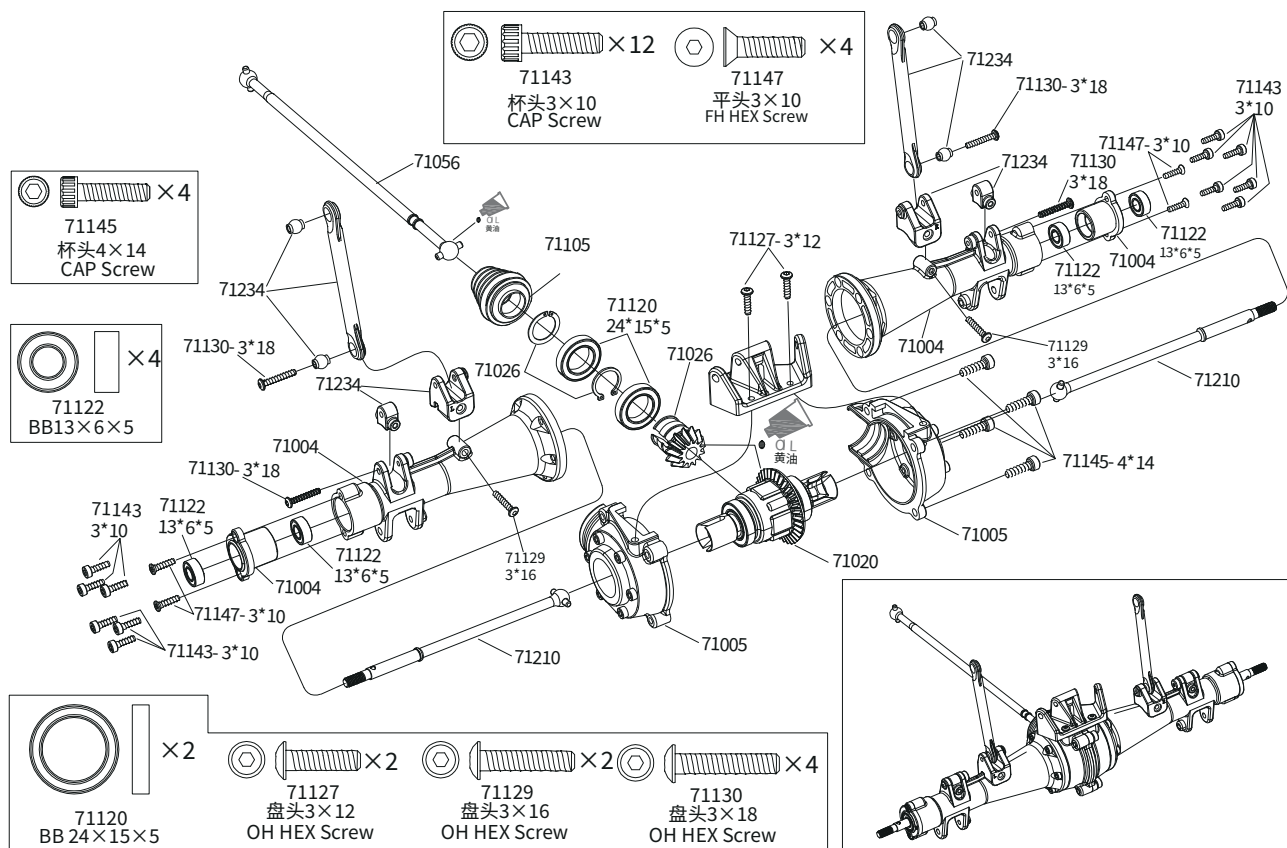
Rear Shock Assembly

后避震器组装



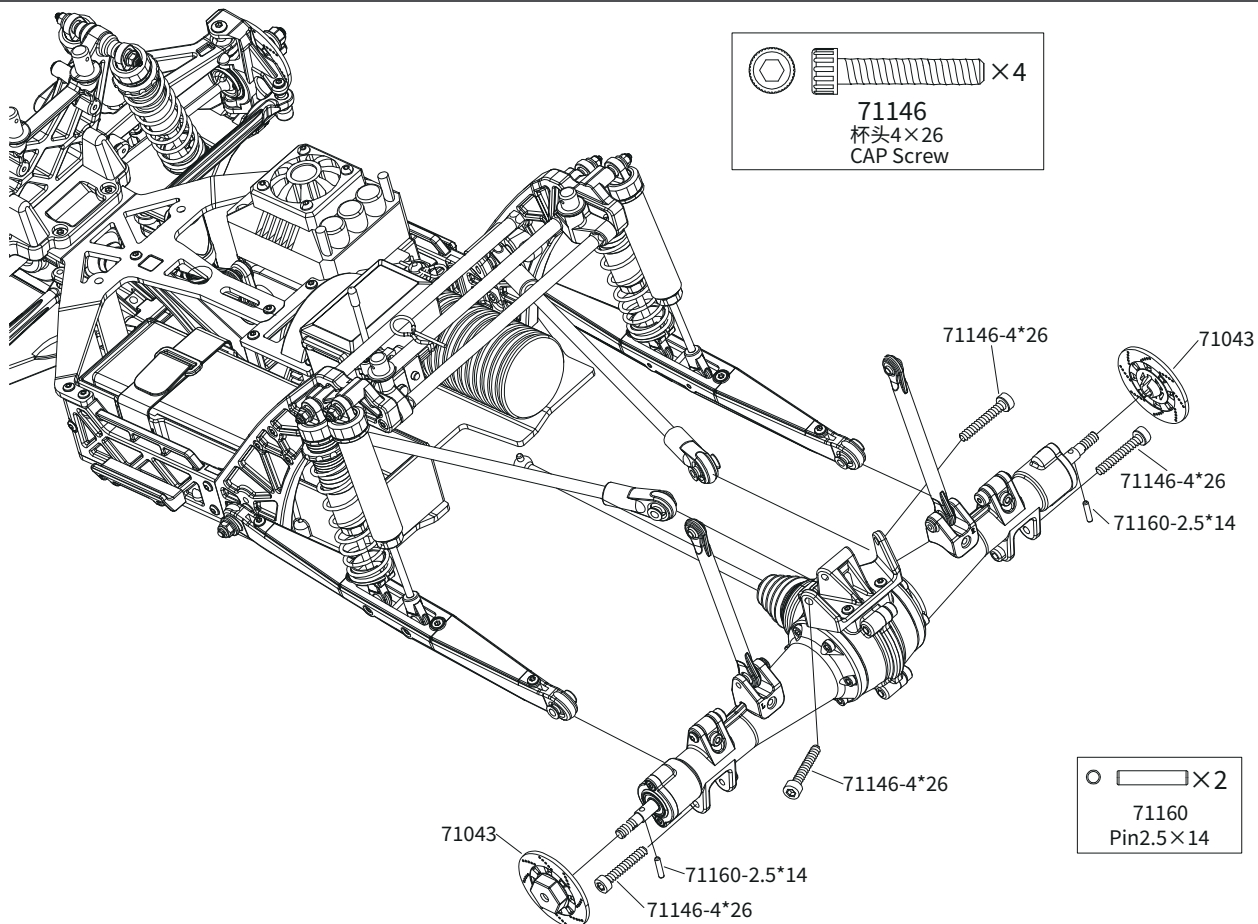
Rear Portal Axle Assembly

后桥箱组装



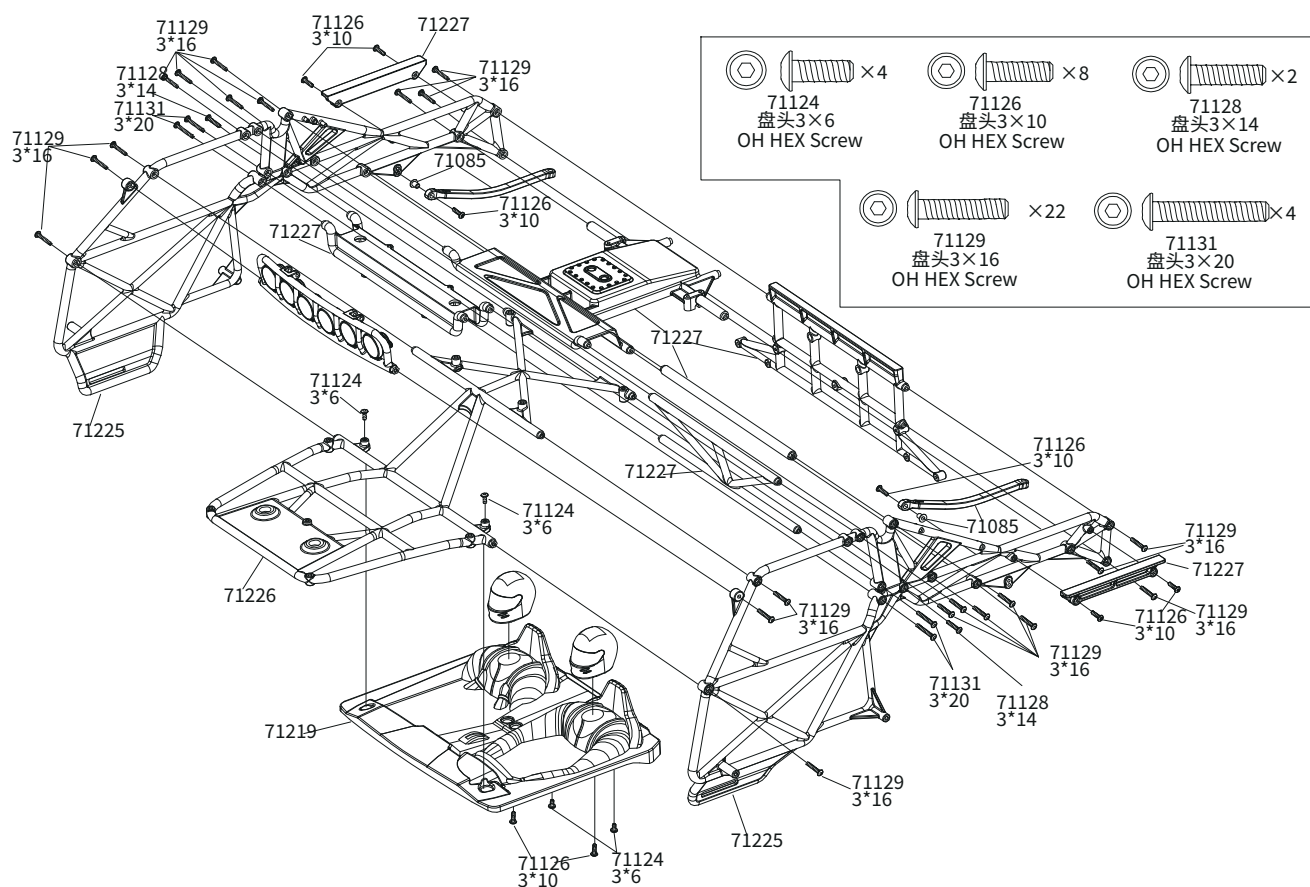
Rear Axle Assembly

后桥组装



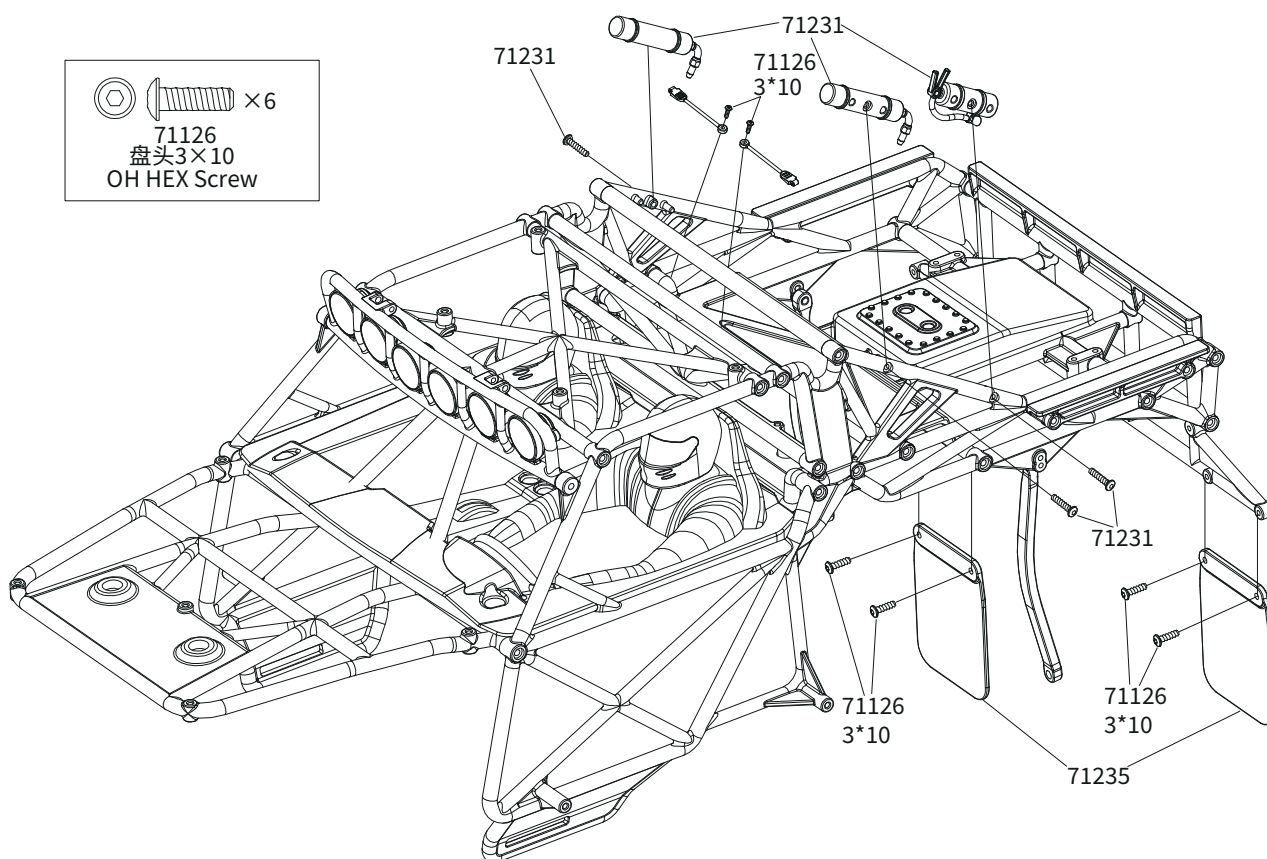
Roll Cage Assmebly

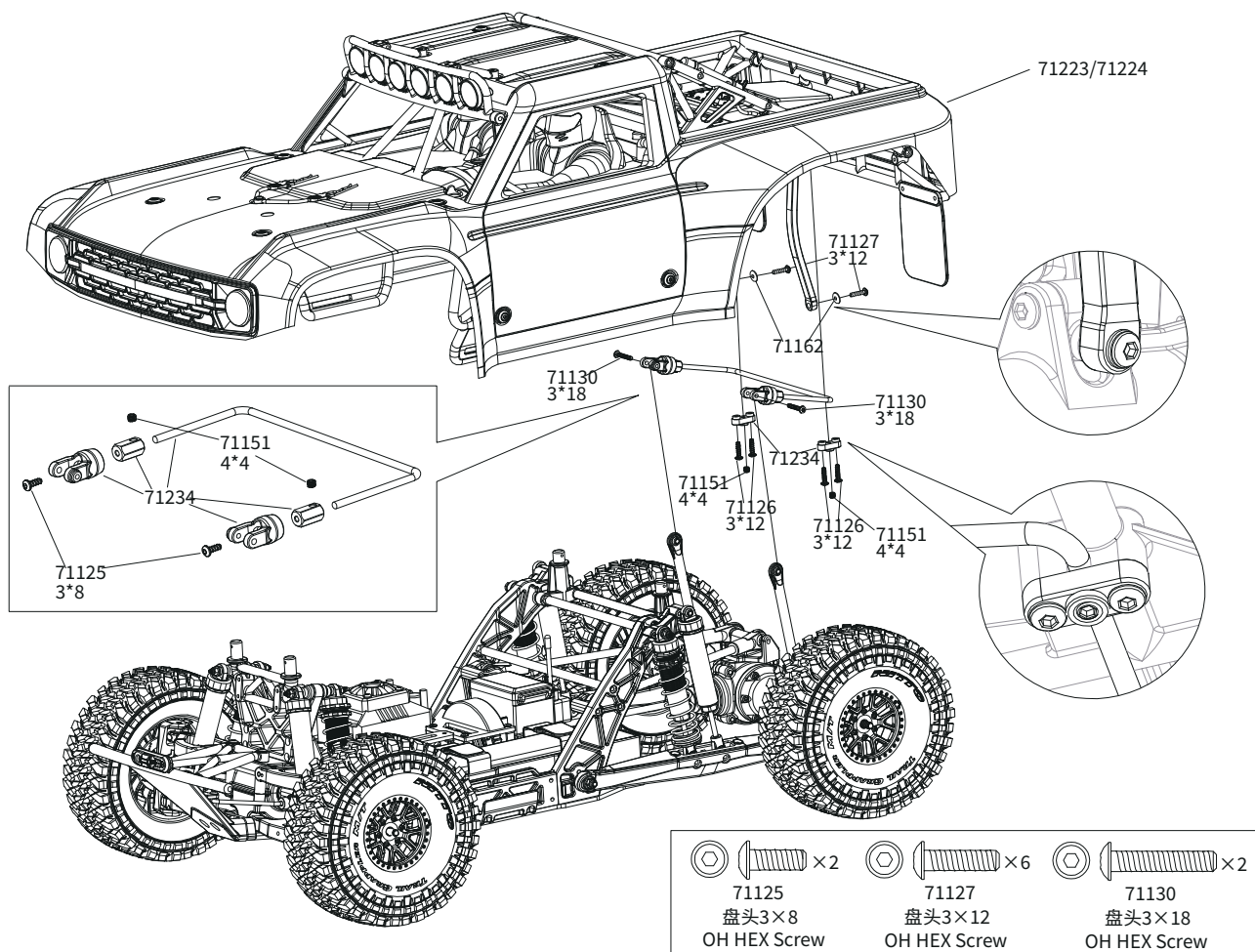
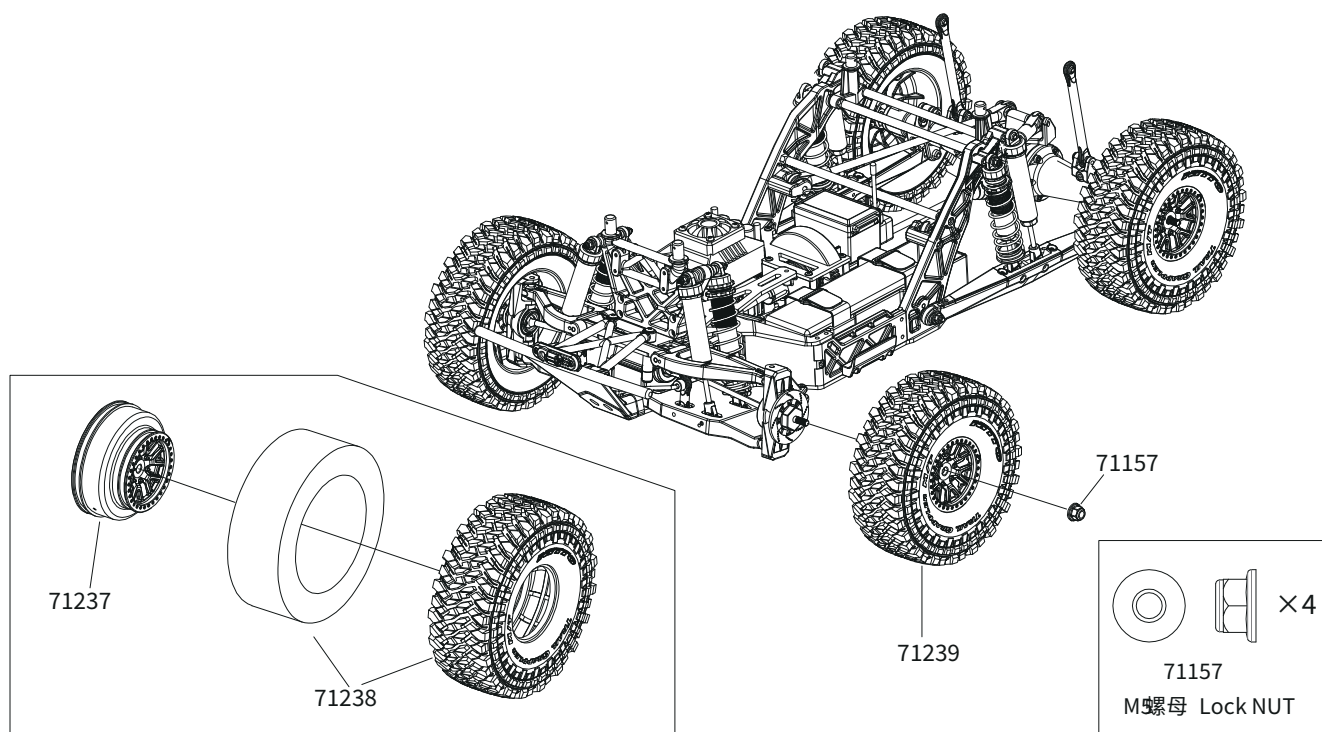
车棚架组装



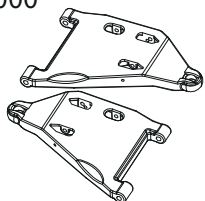
Roll Cage Assmebly

车棚架组装



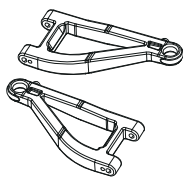


71000



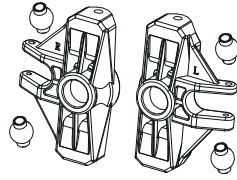
前下摆臂
Front Lower Suspension Arm

71001



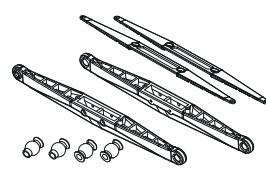
前上摆臂
Front Upper Suspension Arm

71002



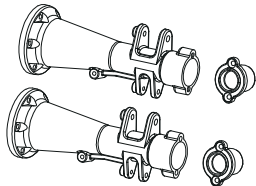
转向座左/右
Spindle Left/Right

71003



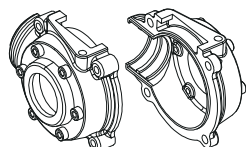
后桥刀臂
Rear Trailing Arm

71004



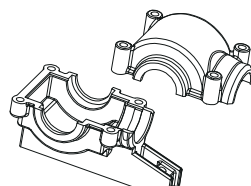
后桥管
Rear Portal Housing

71005



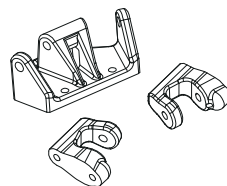
后桥蛋
Rear Portal GearBox

71006



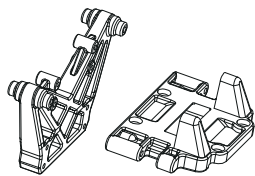
前齿轮箱
Front Gearbox

71007



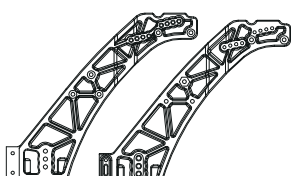
后桥固定座
Rear Camber Block

71008



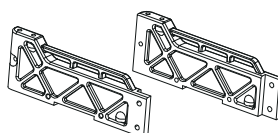
前避震支撑
Front Shock Tower

71009



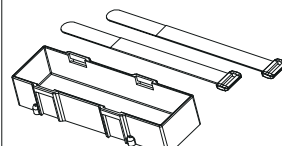
后避震支撑
Rear Shock Tower

71010



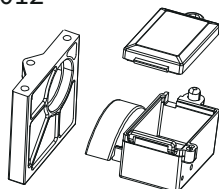
底板侧支撑
Chassis Side Guard

71011



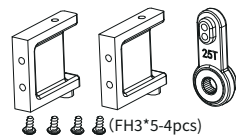
电池盒
Battery Tray

71012



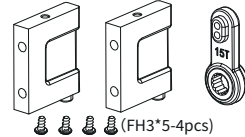
中差座/接收盒
Center Diff Mount/Radio Box

71013



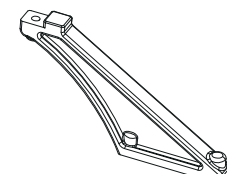
25KG标准尺寸舵机固定座
Servo Mount (for 25kgs)

71014



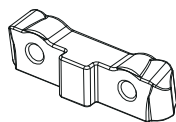
30KG大尺寸舵机固定座
Servo Mount (for 30kgs)

71015



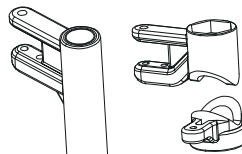
前支撑
Front Brace

71016



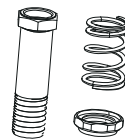
前摆臂码后
FR Suspension Mount

71017



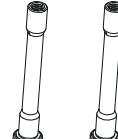
缓冲座
Bell Crank

71018



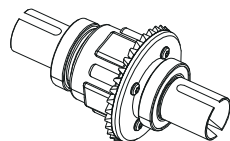
缓冲铝柱
Bellcrank Parts Alum

71019



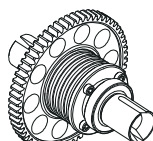
缓冲钢柱
Bellcrank Post Steel

71020



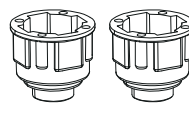
前差速器
Front Gear Diff

71021



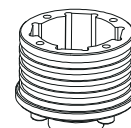
中差速器
Center Gear Diff

71023



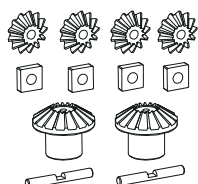
差速壳
Diff Case

71024



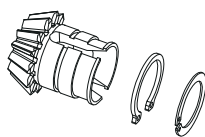
中差速壳 (铝合金)
Aluminum Center Diff Case

71025



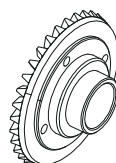
差速大/小齿轮 13T/16T
Diff Spyder and Sun Gear 13T/16T

71026



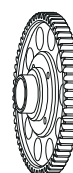
钢制主动齿轮 13T
Steel Pinion Gear 13T

71027



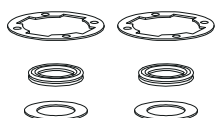
钢制从动齿轮 33T
Steel Ring Gear 33T

71028



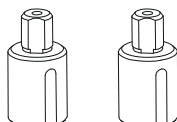
中差大钢齿 63T
Steel Spur Gear 63T

71029



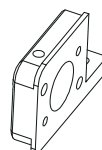
差速密封垫
Differential Gasket

71030



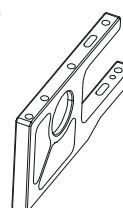
钢制差速接杯
Steel Differential Outdrive

71032



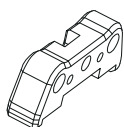
CNC 铝合金马达调整座
CNC Alum Motor Adaptor

71033



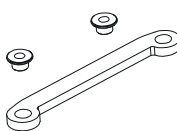
CNC 铝合金马达座
CNC Alum Motor Mount

71034



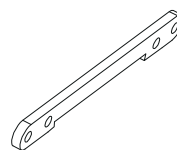
CNC 铝合金前摆臂码前
CNC Alum Front Suspension Brace

71035



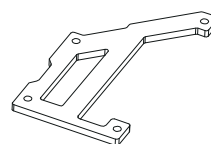
钢制缓冲连片
Steel Steering Drag Link

71036



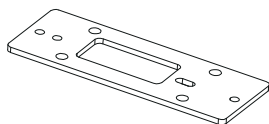
钢制前上摆臂码
Steel Front-Upper Suspension Arm Holder

71037



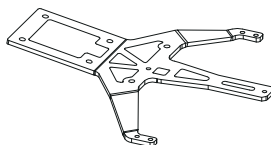
铝合金马达座支撑板
Alum Motor Mount Support Brace

71038



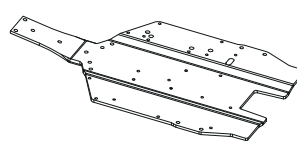
铝合金舵机固定板
Alum Servo Mount Plate

71039



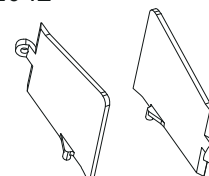
铝合金前上支撑板
Alum Front Upper Strengthening Plate

71040



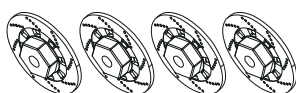
铝合金底板
Alum Chassis

71042



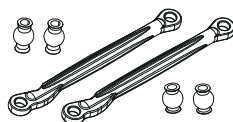
前挡泥板
Front Mud Flap

71043



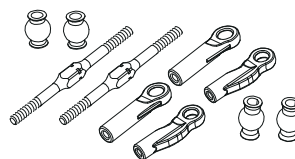
六角轮座
Wheel Hex

71044



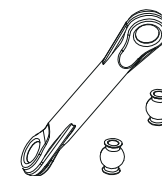
转向拉杆
Steering Link

71045



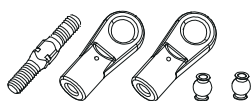
转向拉杆 (可调)
Adjustable Turnbuckle Set

71046



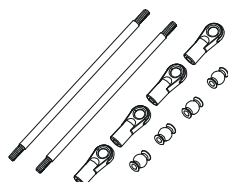
伺服拉杆
Servo Steering Link

71047



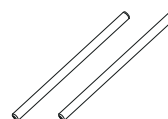
伺服拉杆 (可调)
Adjustable Servo Steering Link Set

71048



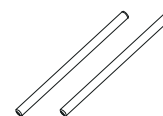
后上拉杆
Rear Camber Turnbuckle

71049



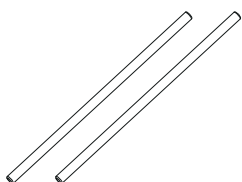
轴承钢销子 (3.5*53mm)
Pin (3.5x53mm)

71050



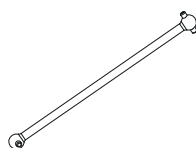
轴承钢销子 (3*55mm)
Pin (3x55mm)

71051



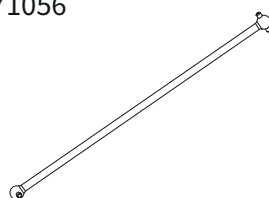
轴承钢销子 (4*110mm)
Pin (4x110mm)

71055



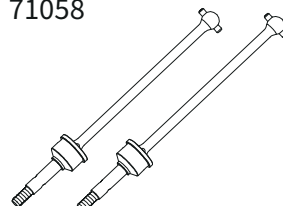
纵前传动轴
Center Dogbone Front

71056



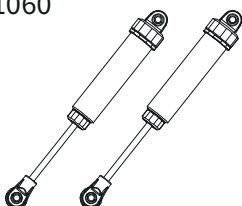
纵后传动轴
Center Dogbone Rear

71058



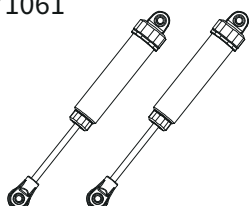
前万向轴
Universal CVD Front

71060



前避震器
Front Shock Set without Spring

71061



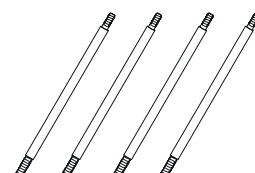
后避震器
Rear Shock Set without Spring

71063



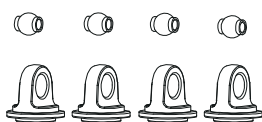
避震轴长
Shock Shaft Set Long

71064



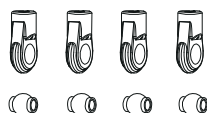
避震轴短
Shock Shaft Set Short

71065



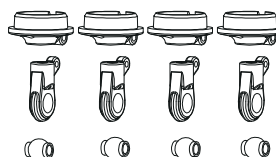
避震上球头座
Shock End Upper

71066



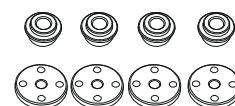
避震下球头座
Shock Rod End

71067



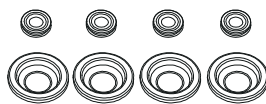
避震弹簧下座
Shock Rod End and Spring Cups

71068



避震活塞/T型套
Shock Piston/bottom retainer T tube

71069



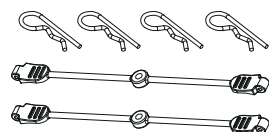
避震X圈/气室
Shock X-Ring/Bladder

71085



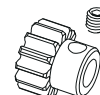
后桥限位胶条
Rear Portal Limit Strape

71086



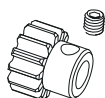
车壳夹胶条
Body Clip and Rubber Leash

71096



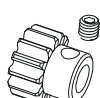
马达齿12T
Pinion Gear 12T

71097



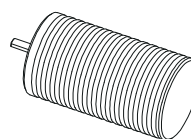
马达齿13T
Pinion Gear 13T

71098



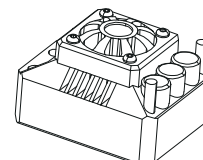
马达齿14T
Pinion Gear 14T

71099



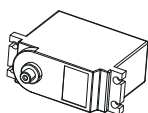
无刷马达4274
Brushless Motor 4274

71100



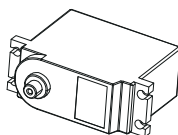
无刷电调150A
Brushless ESC 150A

71101



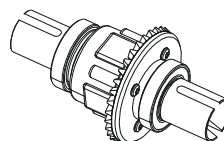
25KG小舵机
25kg Servo

71102



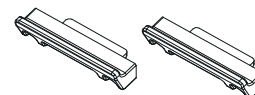
30KG大舵机
30kg Servo

71170



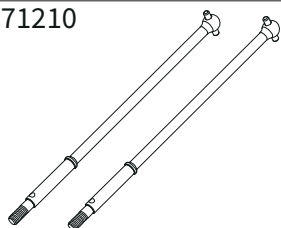
后差速器
Rear Gear Diff

71171



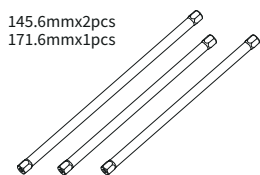
车棚固定座
Cage Support Mount

71210



后桥传动轴
Driveshaft for Rear Portal

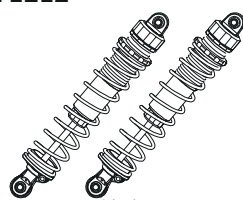
71211



145.6mmx2pcs
171.6mmx1pcs

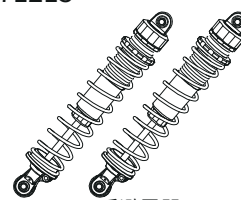
铝合金支撑杆
Alum Center Brace Bar

71212



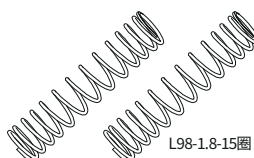
前避震器
Shock Set Complete (Front)

71213



后避震器
Shock Set Complete (Rear)

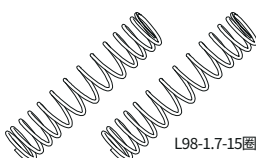
71214



L98-1.8-15圈

前避震弹簧
Front Shock Spring Set

71215



L98-1.7-15圈

后避震弹簧
Rear Shock Spring Set

71216



遥控/接收
Transmitter/Receiver

71217



接收机
Receiver

71218



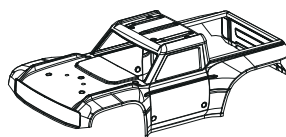
驾驶舱 (PC透明)
Cockpit (PC Clear)

71219



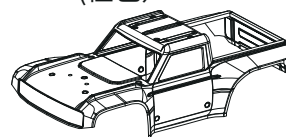
驾驶舱 (PC黑色)
Cockpit (PC Black)

71220



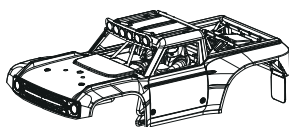
车壳 (透明)
Body (Clear)

71221(红色)
71222(橙色)



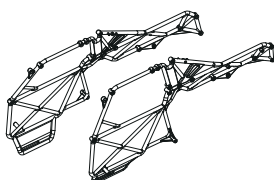
车壳 (丝印)
Body (Screened)

71223(红色)
71224(橙色)



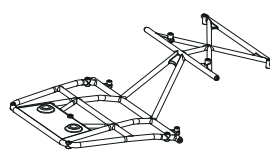
车壳组
Body set

71225



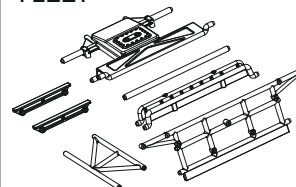
车棚左/右
Cage Left/Right

71226



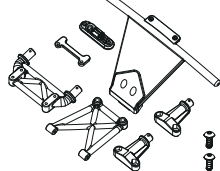
车棚中
Cage Center

71227



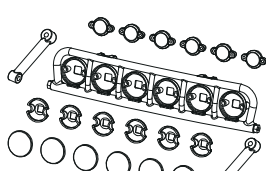
车棚后
Cage Rear

71228



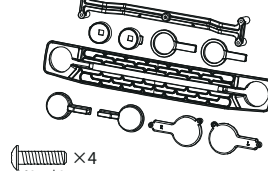
前防撞架
Front Bumper

71229



车顶灯配件组
Roof-light sets

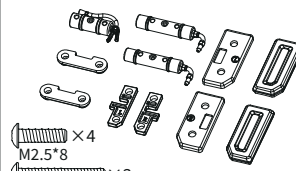
71230



×4
M2.5*8

前灯配件组
Head-light sets

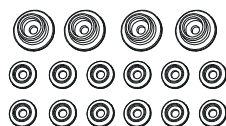
71231



×4
M2.5*8
×3
M2.5*14

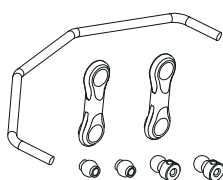
尾灯配件组
Tail-light sets

71232



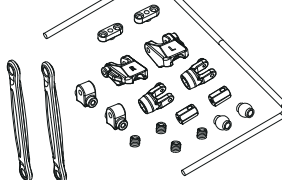
车壳垫片
Body washer

71233



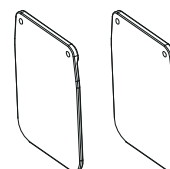
前防倾杆组
Front Sway Bar Kit

71234



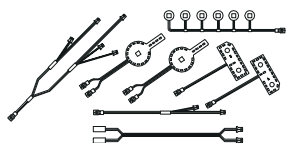
后防倾杆组
Rear Sway Bar Kit

71235



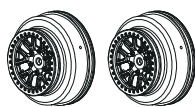
后挡泥板
Mud Flap Rear

71236



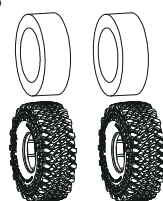
全车灯线组
Lights Wiring Harness set

71237



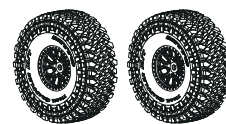
轮框
Wheel

71238



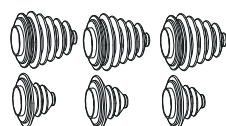
轮胎/海绵
Tires and Foam Insert

71239



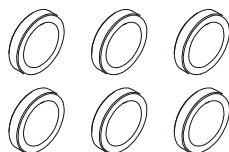
轮胎组
Wheel and Tire Mounted

71105



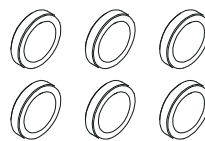
防尘套
Boots for driveshaft

71120



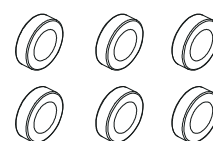
轴承24*15*5
Ball Bearing

71121



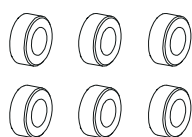
轴承21*15*4
Ball Bearing

71122



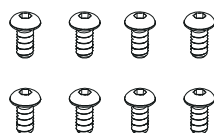
轴承13*6*5
Ball Bearing

71123



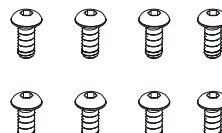
轴承10*6*3
Ball Bearing

71124



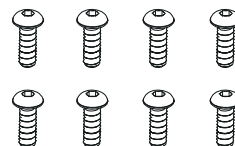
盘头内六角螺丝M3*6
Button Head Screws

71125



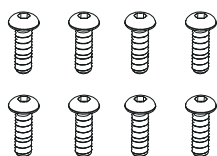
盘头内六角螺丝M3*8
Button Head Screws

71126



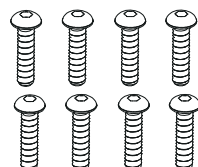
盘头内六角螺丝M3*10
Button Head Screws

71127



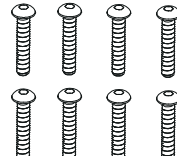
盘头内六角螺丝M3*12
Button Head Screws

71128



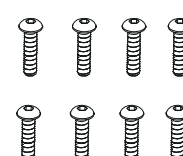
盘头内六角螺丝M3*14
Button Head Screws

71129



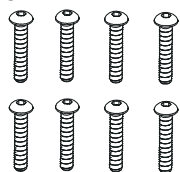
盘头内六角螺丝M3*16
Button Head Screws

71130



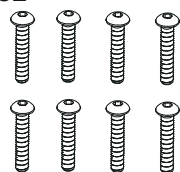
盘头内六角螺丝M3*18
Button Head Screws

71131



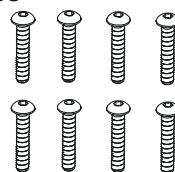
盘头内六角螺丝M3*20
Button Head Screws

71132



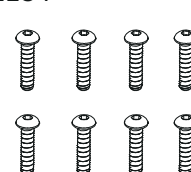
盘头内六角螺丝M3*22
Button Head Screws

71133



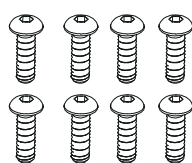
盘头内六角螺丝M3*25
Button Head Screws

71134



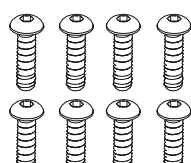
盘头内六角螺丝M2.5*12
Button Head Screws

71135



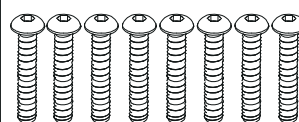
盘头内六角螺丝M4*10
Button Head Screws

71136



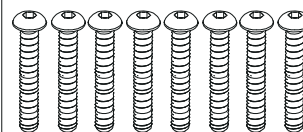
盘头内六角螺丝M4*12
Button Head Screws

71137



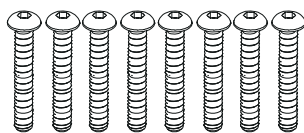
盘头内六角螺丝M4*25
Button Head Screws

71138



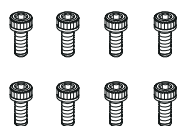
盘头内六角螺丝M4*30
Button Head Screws

71139



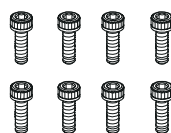
盘头内六角螺丝M4*40
Button Head Screws

71140



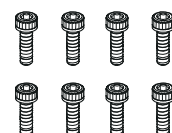
杯头内六角螺丝M2.5*6
Cap Head Screws

71141



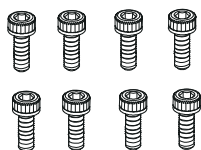
杯头内六角螺丝M2.5*10
Cap Head Screws

71142



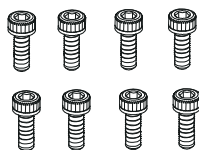
杯头内六角螺丝M2.5*12
Cap Head Screws

71143



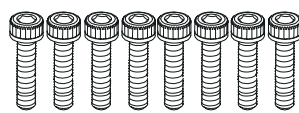
杯头内六角螺丝M3*10
Cap Head Screws

71144



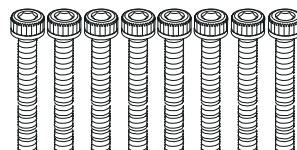
杯头内六角螺丝M3*12
Cap Head Screws

71145



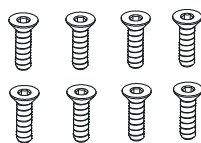
杯头内六角螺丝M4*14
Cap Head Screws

71146



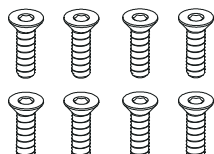
杯头内六角螺丝M4*26
Cap Head Screws

71147



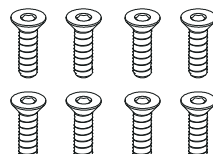
平头内六角螺丝M3*10
Flat Head Screws

71148



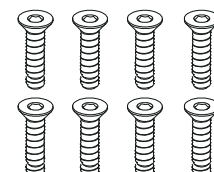
平头内六角螺丝M4*8
Flat Head Screws

71149



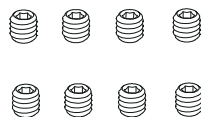
平头内六角螺丝M4*12
Flat Head Screws

71150



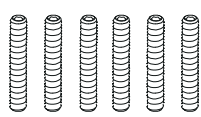
平头内六角螺丝M4*16
Flat Head Screws

71151



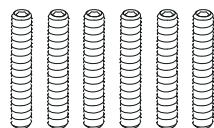
机米4*4
Headless Screws

71152



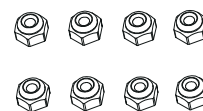
机米3*26
Headless Screws

71153



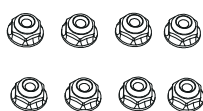
机米4*30
Headless Screws

71154



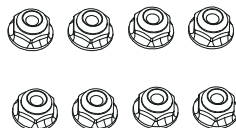
M2.5尼龙螺母
Flange Lock Nuts

71155



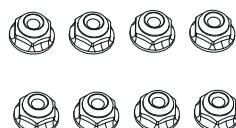
M3法兰螺母
Flange Lock Nuts

71156



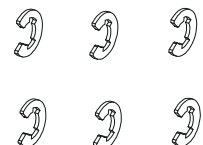
M4法兰螺母
Flange Lock Nuts

71157



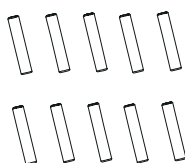
M5法兰螺母
Flange Lock Nuts

71158



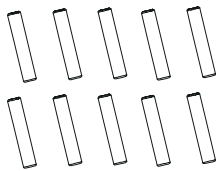
5.0E扣
E Clip

71160



2.5*14销子
Pins

71161



3*15销子
Pins

71162



垫片6*3.1*0.5
Shims

Spare Parts List

配件列表

APSC71000	Front Lower Suspension Arm	前下摆臂	APSC71050	Pin (3x55mm)	轴承钢销子 (3*55mm)
APSC71001	Front Upper Suspension Arm	前上摆臂	APSC71051	Pin (4x110mm)	轴承钢销子 (4*110mm)
APSC71002	Spindle Left/Right	转向座左/右	APSC71055	Center Dogbone Front	纵前传动轴
APSC71003	Rear Trailing Arm	后桥刀臂	APSC71056	Center Dogbone Rear	纵后传动轴
APSC71004	Rear Portal Housing	后桥管	APSC71058	Universal CVD Front	前万向轴
APSC71005	Rear Portal GearBox	后桥蛋	APSC71060	Front Shock Set without Spring	前避震器
APSC71006	Front Gearbox	前齿轮箱	APSC71061	Rear Shock Set without Spring	后避震器
APSC71007	Rear Camber Block	后桥固定座	APSC71063	Shock Shaft Set Long	避震轴长
APSC71008	Front Shock Tower	前避震支撑	APSC71064	Shock Shaft Set Short	避震轴短
APSC71009	Rear Shock Tower	后避震支撑	APSC71065	Shock End Upper	避震上球头座
APSC71010	Chassis Side Guard	底板侧支撑	APSC71066	Shock Rod End	避震下球头座
APSC71011	Battery Tray	电池盒	APSC71067	Shock Rod End and Spring Cups	避震弹簧下座
APSC71012	Center Diff Mount/Radio Box	中差座/接收盒	APSC71068	Shock Piston/bottom retain- er T tube	避震活塞/T型套
APSC71013	Servo Mount (for 25kgs)	25KG标准尺寸舵机固定座	APSC71069	Shock X-Ring/Bladder	避震X圈/气室
APSC71014	Servo Mount (for 30kgs)	30KG大尺寸舵机固定座	APSC71085	Rear Portal Limit Strape	后桥限位胶条
APSC71015	Front Brace	前支撑	APSC71086	Body Clip and Rubber Leash	车壳夹胶条
APSC71016	FR Suspension Mount	前摆臂码后	APSC71096	Pinion Gear 12T	马达齿12T
APSC71017	Bell Crank	缓冲座	APSC71097	Pinion Gear 13T	马达齿13T
APSC71018	Bellcrank Parts Alum	缓冲铝柱	APSC71098	Pinion Gear 14T	马达齿14T
APSC71019	Bellcrank Post Steel	缓冲钢柱	APSC71099	Brushless Motor 4274	无刷马达4274
APSC71020	Front Gear Diff	前差速器	APSC71100	Brushless ESC 150A	无刷电调150A
APSC71021	Center Gear Diff	中差速器	APSC71101	25kg Servo	25KG小舵机
APSC71023	Diff Case	差速壳	APSC71102	30kg Servo	30KG大舵机
APSC71024	Aluminum Center Diff Case	中差速壳(铝合金)	APSC71170	Rear Gear Diff	后差速器
APSC71025	Diff Spyder and Sun Gear 13T/16	差速大/小齿轮13T/16T	APSC71171	Cage Support Mount	车棚固定座
APSC71026	Steel Pinion Gear 13T	钢制主动齿轮13T	APSC71210	Driveshaft for Rear Portal	后桥传动轴
APSC71027	Steel Ring Gear 33T	钢制从动齿轮33T	APSC71211	Alum Center Brace Bar	铝合金支撑杆
APSC71028	Steel Spur Gear 63T	中差大钢齿63T	APSC71212	Shock Set Complete (Front)	前避震器
APSC71029	Differential Gasket	差速密封垫	APSC71213	Shock Set Complete (Rear)	后避震器
APSC71030	Steel Differential Outdrive	钢制差速接杯	APSC71214	Front Shock Spring Set	前避震弹簧
APSC71032	CNC Alum Motor Adaptor	CNC铝合金马达调整座	APSC71215	Rear Shock Spring Set	后避震弹簧
APSC71033	CNC Alum Motor Mount	CNC铝合金马达座	APSC71216	Transmitter/Receiver	遥控/接收
APSC71034	CNC Alum Front Suspension Brace	CNC铝合金前摆臂码前	APSC71217	Receiver	接收机
APSC71035	Steel Steering Drag Link	钢制缓冲连片	APSC71218	Cockpit (PC Clear)	驾驶舱(PC透明)
APSC71036	Steel Front-Upper Suspen- sion Arm Holder	钢制前上摆臂码	APSC71219	Cockpit (PC Black)	驾驶舱(PC黑色)
APSC71037	Alum Motor Mount Support Brace	铝合金马达座支撑板	APSC71220	Body (Clear)	车壳(透明)
APSC71038	Alum Servo Mount Plate	铝合金舵机固定板	APSC71221	Body (Screened) Red	车壳(丝印)红色
APSC71039	Alum Front Upper Strengthen- ing Plate	铝合金前上支撑板	APSC71222	Body (Screened) Orange	车壳(丝印)橙色
APSC71040	Alum Chassis	铝合金底板	APSC71223	Body set (Red)	车壳组(红色)
APSC71042	Front Mud Flap	前挡泥板	APSC71224	Body set (Orange) Cage	车壳组(橙色)
APSC71043	Wheel Hex	六角轮座	APSC71225	Left/Right	车棚左/右
APSC71044	Steering Link	转向拉杆	APSC71226	Cage Center	车棚中
APSC71045	Adjustable Turnbuckle Set	转向拉杆(可调)	APSC71227	Cage Rear	车棚后
APSC71046	Servo Steering Link	伺服拉杆	APSC71228	Front Bumper	前防撞架
APSC71047	Adjustable Servo Steering Link Set	后上拉杆	APSC71229	Roof-light sets	车顶灯配件组
APSC71048	Rear Camber Turnbuckle	轴承钢销子 (3.5*53mm)	APSC71230	Head-light sets	前灯配件组
APSC71049	Pin (3.5x53mm)	轴承钢销子 (3*55mm)	APSC71231	Tail-light sets	尾灯配件组
			APSC71232	Body washer	车壳垫片

Spare Parts List

配件列表

APSC71233	Front Sway Bar Kit	前防倾杆组	APSC71162	Shims	垫片6*3.1*0.5
APSC71234	Rear Sway Bar Kit	后防倾杆组			
APSC71235	Mud Flap Rear	后挡泥板			
APSC71236	Lights Wiring Harness set	全车灯线组			
APSC71237	Wheel	轮框			
APSC71238	Tires and Foam Insert	轮胎/海绵			
APSC71239	Wheel and Tire Mounted	轮胎组			
APSC71105	Boots for driveshaft	防尘套			
APSC71120	Ball Bearing	轴承24*15*5			
APSC71121	Ball Bearing	轴承21*15*4			
APSC71122	Ball Bearing	轴承13*6*5			
APSC71123	Ball Bearing	轴承10*6*3			
APSC71124	Button Head Screws	盘头内六角螺丝M3*6			
APSC71125	Button Head Screws	盘头内六角螺丝M3*8			
APSC71126	Button Head Screws	盘头内六角螺丝M3*10			
APSC71127	Button Head Screws	盘头内六角螺丝M3*12			
APSC71128	Button Head Screws	盘头内六角螺丝M3*14			
APSC71129	Button Head Screws	盘头内六角螺丝M3*16			
APSC71130	Button Head Screws	盘头内六角螺丝M3*18			
APSC71131	Button Head Screws	盘头内六角螺丝M3*20			
APSC71132	Button Head Screws	盘头内六角螺丝M3*22			
APSC71133	Button Head Screws	盘头内六角螺丝M3*25			
APSC71134	Button Head Screws	盘头内六角螺丝M2.5*12			
APSC71135	Button Head Screws	盘头内六角螺丝M4*10			
APSC71136	Button Head Screws	盘头内六角螺丝M4*12			
APSC71137	Button Head Screws	盘头内六角螺丝M4*25			
APSC71138	Button Head Screws	盘头内六角螺丝M4*30			
APSC71139	Button Head Screws	盘头内六角螺丝M4*40			
APSC71140	Cap Head Screws	杯头内六角螺丝M2.5*6			
APSC71141	Cap Head Screws	杯头内六角螺丝M2.5*10			
APSC71142	Cap Head Screws	杯头内六角螺丝M2.5*12			
APSC71143	Cap Head Screws	杯头内六角螺丝M3*10			
APSC71144	Cap Head Screws	杯头内六角螺丝M3*12			
APSC71145	Cap Head Screws	杯头内六角螺丝M4*14			
APSC71146	Cap Head Screws	杯头内六角螺丝M4*26			
APSC71147	Flat Head Screws	平头内六角螺丝M3*10			
APSC71148	Flat Head Screws	平头内六角螺丝M4*8			
APSC71149	Flat Head Screws	平头内六角螺丝M4*12			
APSC71150	Flat Head Screws	平头内六角螺丝M4*16			
APSC71151	Headless Screws	机米4*4			
APSC71152	Headless Screws	机米3*26			
APSC71153	Headless Screws	机米4*30			
APSC71154	Flange Lock Nuts	M2.5尼龙螺母			
APSC71155	Flange Lock Nuts	M3法兰螺母			
APSC71156	Flange Lock Nuts	M4法兰螺母			
APSC71157	Flange Lock Nuts	M5法兰螺母			
APSC71158	E Clip	5.0E扣			
APSC71160	Pins	2.5*14销子			
APSC71161	Pins	3*15销子			

