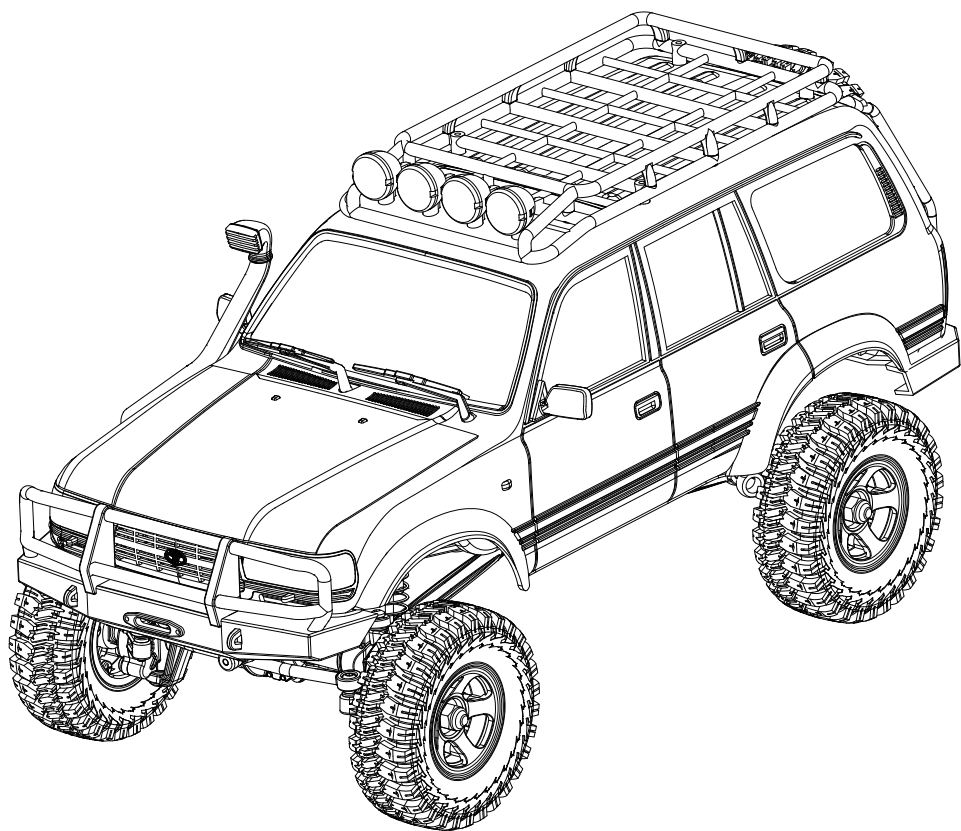




***1/18 TOYOTA  
LAND CRUISER LC80 V2***



**FCX18**  
**BRUSHLESS**

MAN-G0312

*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. 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。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

- Replace damaged components with original factory-parts. Pay special attention to the polarity of all vehicle wiring.
- Use common sense when selecting the environment to operate your vehicle. Do not operate near power cables, cellular/radio towers, deep water or unstable terrain. The operator is solely responsible for their actions.
- The product is composed of precision electrical components. It is critical to keep the product away from moisture and other contaminants.
- Always check the radio range of the vehicle prior to operation in order to prevent radio loss or interference.
- Operate this product within your ability. If the vehicle is dangerous to retrieve, it never worth the risk.
- Always turn on the transmitter before connecting the battery on the model. When turning off the model, always disconnect the battery first, and then turn off the transmitter. If this order is reversed, the model may become uncontrollable and cause serious damage.
- Never allow transmitter batteries to run low as it may cause loss of vehicle control.
- Plastics on the vehicle are susceptible to damage or deformation due to extreme heat and cold climate. Do not store the model near any source of heat such as oven or heater. Store the model indoors, in a climate-controlled, room temperature environment.
- 请使用原厂部件更换损坏的部件。特别注意所有车辆接线的正负极。
- 务必选择合适的环境操作遥控模型，所选环境需远离电缆、无线电塔、深水及不稳定地形。本品操作者对其行为全权负责。
- 本品由精密电子部件构成。请勿将本品暴露于潮湿的环境或者其他污染物中。
- 确保每次操作前检查车辆的无线接收范围，以防止无线信号丢失或受干扰。
- 在您的能力范围内操作此产品。在任何时候，如果车辆操作有危险，则绝对不值得冒险。
- 通电方式：务必先开遥控器再将车子通电。断电方式：务必先将车子断电再关遥控器。以上顺序如逆转，则可能引起遥控模型失控，导致人身伤害或财产损失。
- 遥控器电池低电时，请勿操作模型车，以免出现失控。
- 模型产品上的塑胶件容易因极冷或极热气候出现变形或损坏的状况。所以请将模型产品存放在气候受控的室温环境中，切勿靠近任何热源，如烤箱或加热器等。

## Safety Precautions

## 安全保障措施

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。

### CE Warning

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

### FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

1. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
2. Move all your channels to the desired position.
3. Select [All channels] and then [Yes] in the confirmation box.

### Environmentally friendly disposal

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS



## IC STATEMENT

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC: 25584-MG4BS00

IC: 25584-R4A31

## Radio System 无线电系统

### Safety symbols 安全符号

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

仔细阅读以下符号及其相关说明，如不按照以下指引进行操作，可能会导致设备损坏或人员伤亡。



**Not following these instructions may lead to serious injuries or death.**

如果使用者不按照说明方法操作，有可能导致操作者或他人受到轻微伤害。



**Not following these instructions may lead to major injuries.**

如果使用者不按照说明方法操作，有可能导致操作者或他人受到轻微伤害。



**Not following these instructions may lead to minor injuries.**

如果不按照说明方法操作，可能导致操作者或他人严重受伤，甚至遭受生命危险。

### Safety guide 安全信息

#### Prohibited 禁止

- Do not use the product at night or in bad weather like rain or thunderstorm. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not use the product on rain or snow days. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.
- Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:
  - 1、Near any site where other radio control activity may occur
  - 2、Near power lines or communication broadcasting antennas
  - 3、Near people or roads
  - 4、On any body of water when passenger boats are present
- Do not use this product when you are tired, uncomfortable, or under the influence of alcohol or drugs. Doing so may cause serious injury to yourself or others.
- The 2.4GHz radio band is limited to line of sight. Always keep your model in sight as a large object can block the RF signal and lead to loss of control.
- Do not touch any part of the model that may generate heat during operation, or immediately after use. The engine, motor or speed control, may be very hot and can cause serious burns.



## Radio System 无线电系统

- 请不要在夜晚或雷雨天气使用本产品，恶劣的天气环境有可能导致遥控设备失灵。
- 请不要在能见度有限的情况下使用本产品。
- 请不要在雨雪或有水的地方使用本产品。如果有液体进入到系统内部，可能会导致运行不稳定或失灵。
- 信号干扰可能导致设备失控。为保证您和他人的安全，请不要在以下地点使用本产品：
  - 1、通信基站附近或其他无线电活跃的地方
  - 2、人多的地方或道路附近
  - 3、水域附近
  - 4、高压电线或通信广播天线附近
- 当您感到疲倦、不舒服，或在摄入酒精或服食导致麻醉或兴奋的药物后，不要操作本产品。否则可能对自己或他人造成严重的伤害。
- 2.4GHz无线电波段完全不同于之前所使用的低频无线电波段。使用时请确保模型产品在您的视线范围内，大的障碍物将会阻断无线电频率信号从而导致遥控失灵模型失控。
- 请勿在操作过程中或使用后立即触摸模型可能产生热量的任何部分。发动机、电机或速度控制器可能非常热，并可能导致严重烧伤。



### Mandatory 强制

- Misuse of this product may lead to serious injury or death. To ensure the safety of you and your equipment, read this manual and follow the instructions.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- Make sure to disconnect the receiver battery before turning off the transmitter. Failure to do so may lead to unintended operation and cause an accident.
- Ensure that all servos operate in the correct direction. If not, adjust the direction first.
- Make sure the model stays within the systems maximum range to prevent loss of control.
- 遥控设备使用不恰当可能导致操作者或他人严重受伤，甚至死亡。为保证您和设备的安全，请仔细阅读使用说明书并按照要求进行操作。
- 使用前必须确保本产品与模型安装正确，否则可能导致模型发生严重损坏。
- 关闭时，请务必先关闭接收机电源，然后关闭发射机。如果关闭发射机电源时接收机仍然在工作，将有可能导致遥控设备失控或者引擎继续工作而引发事故。
- 操控时，请先确认模型所有舵机的动作方向与操控方向一致。如果不一致，请调整好正确的方向。
- 当遥控距离较远时，有发生失控的可能，请适当缩短遥控距离。

### Background 产品背景

The Toyota Land Cruiser LC80 is a large off-road vehicle developed in the early 1990s, although its development can be traced back to the early 1980s. At that time, Toyota decided to develop a new off-road model to replace its LC60 series vehicles. During the development process, Toyota faced many challenges. Firstly, the company needed to improve the vehicle's comfort and safety while maintaining its off-road performance. Secondly, Toyota wanted to ensure that the LC80 remained stable and reliable while adapting to different terrains and environments.

To overcome these challenges, Toyota conducted extensive research and testing. They utilized modern CAD technology and numerical simulation techniques, which provided effective tools for the vehicle's design and development. Additionally, Toyota conducted numerous off-road tests to ensure that the vehicle performed well in various road conditions and environments.

Ultimately, the Toyota LC80 was officially released in 1990 and received widespread recognition and praise. It became a classic in the Toyota SUV lineup and was considered one of the leaders in the off-road vehicle market. Through the development and production of the LC80, Toyota also gained extensive experience in manufacturing off-road vehicles, establishing a solid foundation for future model developments.

丰田陆地巡洋舰LC80是在20世纪90年代初期研发的一款大型越野车。其研发背景可以追溯到20世纪80年代初期。80年代初期，丰田公司决定开发一款全新的越野车型，以取代其LC60系列越野车。在研发过程中，丰田公司面临着很多挑战。首先，丰田需要在保持越野性能的同时提高车辆的舒适性和安全性。其次，丰田需要确保LC80在适应不同地形和环境的同时，仍然能够保持稳定和可靠性。

为了克服这些挑战，丰田公司进行了大量的研发和测试工作。他们采用了现代化的CAD技术和数值模拟技术，为车辆的设计和开发提供了有效的工具。此外，丰田还进行了大量的越野测试，以确保车辆在各种路面和环境下表现出色。

最终，丰田LC80在1990年正式发布，并受到了广泛的认可和好评，成为了丰田越野车系列中的经典之作，被认为是越野车市场上的领导者之一。同时，丰田公司也通过LC80的研发和生产积累了丰富的越野车制造经验，为后来的车型开发奠定了坚实的基础。

### About Model 产品介绍

Authorized by Toyota Motor Corporation, FMS has replicated the highly acclaimed classic off-road vehicle, the Land Cruiser 80, with the product standard of "perfect appearance, excellent performance." From the straight body lines, roof luggage rack, snorkel, front and rear bumpers, usable spare tire, to steering-linked turn signal assembly, simulated bevel gear driving axles, ball bearings full set (24pcs), FMS focuses on every detail.

Based on FCX24Pro, FCX18 is equipped with 1212 outer rotor brushless motor for the first time, which has an exceptionally delicate linear control experience compared with the brushed motor, letting you feel the vehicle crawling at a snail's pace with a low uniform speed. At the same time, the outer rotor structure itself has good dynamic balance characteristics, noise and vibration levels can be further reduced, and the outer rotor structure reduces the stator winding end effect, which is conducive to improving high-speed running performance.

The FCX18 chassis adopts a metal beam construction, as well as metal low bars (4pcs) and steering links (2pcs) that are capable of maintaining performance in extreme environments. The mid-mounted power assembly has a low center of gravity and integrates a 2-speed transmission, transfer case and a 1212 brushless motor. The power is transmitted to the front and rear axles through the universal joint drive shaft. The axles are equipped with wheel side reducers, commonly known as "portal axles", which can increase the ground clearance of the differential tooth pack and improve passability.

## Product Introduction 产品简介

The FCX18 is equipped with a straight axle by default, but the planetary gear differential can also be replaced with high-viscosity silicone oil to simulate the driving effect of an LSD limited-slip differential. After installing the differential, the ultimate climbing ability will be reduced, but a smaller turning radius and a more stable high-speed driving quality can be obtained.

A variety of upgraded and modified parts such as metal differential, metal universal joint drive shaft, metal gears, brass wheel counterweights and trailers (three styles) etc. will be launched to match the FCX18 chassis for further improving the performance of the vehicle.

由丰田汽车公司授权，FMS以“精于静，精于动”的产品标准复刻了Land Cruiser 80这一广受好评经典越野车的外观设计和细节。从车身硬朗线条、车顶行李架、涉水器、前后保险杠、非纯装饰的可替换使用的备胎，到转向联动的方向灯组、仿真伞齿驱动车轴，24颗滚珠轴承，专注于每个细节！

FMS在FCX24 Pro系列的基础上，将外转子无刷电机应用在FCX18上，相对于有刷电机，有着异常细腻的线性控制体验，让你尽情感受车辆以蜗牛般的低匀速爬行，同时外转子结构自身具有良好的动平衡特性，噪音振动水平可进一步降低，外转子结构减小了定子绕组端部效应，有利于提高高速运转性能。

该车款采用金属大梁、金属下拉杆（4pcs）、和金属转向拉杆（2pcs）能在极端环境下保持高稳定性，中置动力总成重心低，将2档变速机构、分动箱和1212无刷电机整合为一体。动力通过万向节传动轴传输到前后两个车桥，车桥装有轮边减速器，俗称“门桥”，可以加大差速器牙包的离地间隙，提高通过性，在崎岖的路面上表现尤为出色。

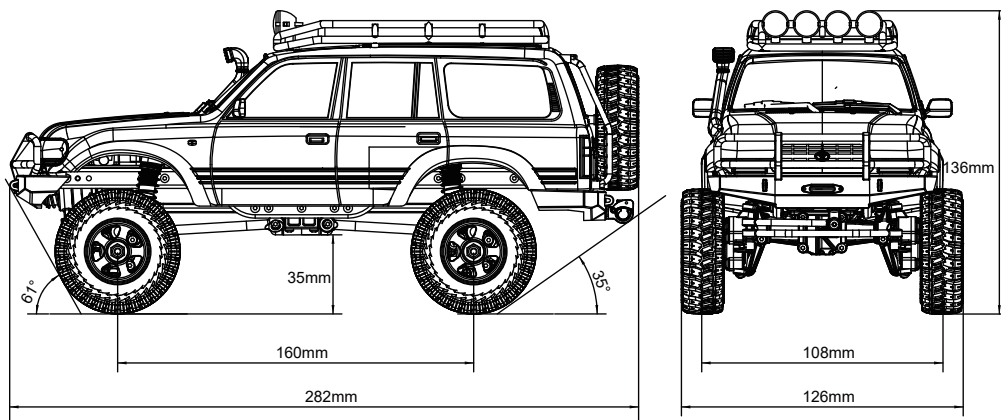
FCX18默认搭载直轴，但也可以更换行星齿差速器，搭配高粘度硅油，模拟LSD限滑差速器的行驶效果。安装差速器后极限攀爬能力将会降低，但可以获得更小的转向半径，更稳定的高速行驶品质。

此外，配合FCX18底盘，包括金属差速器、金属万向节传动轴、金属齿轮、黄铜轮毂配重、多款拖车等大量升级改装零件会同步推出，使玩家可以进一步提升车辆性能，打造独属于自己的陆巡。

### Features 特点

- EXTERNAL ROTOR BRUSHLESS MOTOR
- INDEPENDENT BRUSHLESS ESC
- REMOTE LIGHT CONTROL
- BALL BEARINGS FULL SET
- USABLE SPARE TIRE
- PORTAL AXLES (METAL GEAR)
- OPENABLE HOOD
- OIL SPRINGS + OIL DAMPER
- TWO-SPEED TRANSMISSION
- 外转子无刷电机
- 外置独立无刷电调
- 遥控灯光系统
- 全车滚珠轴承
- 可替换使用的备胎
- 门式车桥（金属齿轮）
- 引擎盖可打开
- 螺旋弹簧+油压避震
- 微型两档机械变速

## Specification 产品参数



- Length: 282mm
- Width: 126mm
- Height: 136mm
- Wheelbase: 160mm
- Tire F/R :  $\Phi$  56\*19.2mm
- Minimum Ground Clearance: 35mm
- Approach Angle: 61°
- Departure Angle: 35°

- Motor: 1212 brushless motor 3200KV
- Battery : 2S Lipo 7.4V 900mAh x1
- Remote control distance: 30m
- Approx. operating duration time: 45mins
- Remote control: MG44 + R4P1 transmitter receiver set BS version

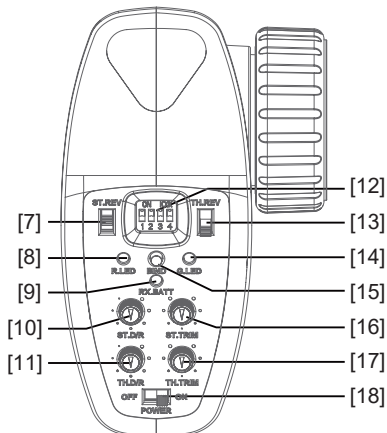
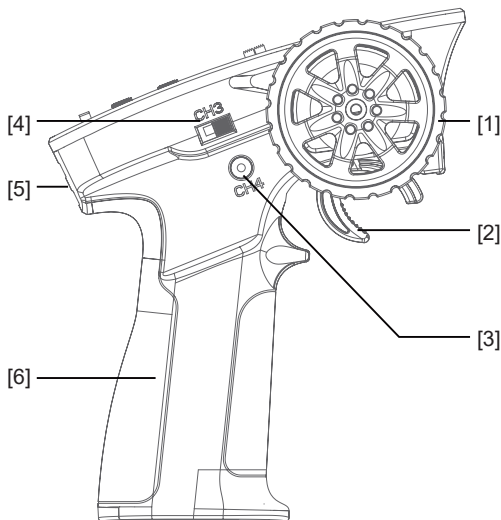
- 车长: 282mm
- 车宽: 126mm
- 车高: 136mm
- 轴距: 160mm
- 轮胎:  $\Phi$  56\*19.2mm
- 离地间隙: 35mm
- 接近角: 61°
- 离去角: 35°

- 电机: 1212外转无刷电机 3200KV
- 电池: 2S Lipo 7.4V 900mAh
- 遥控距离: 30m
- 续航: 45mins
- 遥控: MG44 + R4P1 发射器/电调接收器 BS

## Transmitter instruction 发射机介绍

The MG44 is a simplified 4-channel transmitter that adopts the 2.4GHz 2A-BS Automatic Frequency Hopping Digital System. The transmitter is lightweight and compact in design, comfortable and ergonomic. It has a beginner mode and is easy for beginner players to use.








MG44 是一款采用 2.4GHz 2A-BS 协议自动跳频数字系统的简版 4 通道双向发射机，外观设计轻便小巧，手感舒适，符合人体工程学。该款发射机还具备初学者模式方便入门玩家使用。



- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>[1] Steering Wheel, 35 degrees on each side (CH1)<br/>方向手轮，左右各 35 度 (CH1)</p> <p>[2] Throttle Trigger, 25 degrees forward and 12.5 degrees backward (CH2)<br/>油门扳机，前 25 度后 12.5 度 (CH2)</p> <p>[3] Push button switch (CH4) [Push button function is flip type]<br/>按键开关 (CH4) [ 按键功能为翻转式 ]</p> <p>[4] Three-position toggle switch (CH3)<br/>三档拨动开关 (CH3) (预留功能)</p> <p>[5] Lanyard hole<br/>挂绳孔</p> <p>[6] Handle, 4*AAA battery compartment<br/>手柄，4*AAA电池仓</p> | <p>[7] ST.REV, to adjust the D/R for steering channel.<br/>方向通道舵量调节旋钮 (ST.D/R)</p> <p>[8] ST.TRIM, to adjust the trim of steering channel.<br/>方向通道微调旋钮 (ST.TRIM)</p> <p>[9] TH.D/R, to adjust the D/R for throttle channel<br/>油门通道舵量调节旋钮 (TH.D/R)</p> <p>[10] TH.TRIM, to adjust the trim of throttle channel.<br/>油门通道微调旋钮 (TH.TRIM)</p> <p>[11] POWER ON/OFF, Power Switch<br/>电源开关 (POWER OFF/ON)</p> <p>[12] Toggle Switch, to set the related function of ESC.<br/>拨码开关 (切换电调的工作模式) (预留功能)</p> <p>[13] TH.REV, Throttle Channel Reverse Button<br/>油门通道反向开关 (TH.REV)</p> <p>[14] G.LED, Status Indicator<br/>状态指示灯绿色 LED (G.LED)</p> <p>[15] BIND Button<br/>对码按键 (BIND)</p> <p>[16] RX.BATT, ESC Battery Power Indicator<br/>电调电池电量显示指示灯 (RX.BATT) (预留功能)</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Transmitter Battery Installation 发射机电池安装

Before operation, install the battery and connect the system as instructed below.  
开始操作前，请按照本章的顺序和指引安装电池、连接设备。

 Danger 危险	Only use specified battery (X4 AAA batteries). 仅使用厂家指定的电池。
 Danger 危险	Do not open, disassemble, or attempt to repair the battery. 请勿打开、拆卸或自行维修电池。
 Danger 危险	Do not crush/puncture the battery, or short the external contacts. 请勿挤压、刺穿或接触电池的金属端子。
 Danger 危险	Do not expose to excessive heat or liquids. 请勿将电池置于高温环境或液体中。
 Danger 危险	Do not drop the battery or expose to strong shocks or vibrations. 请注意防止电池跌落、碰撞或振动。
 Danger 危险	Always store the battery in a cool, dry place. 请将电池存放在干燥阴凉的环境中。
 Danger 危险	Do not use the battery if damaged. 如果电池损坏，请立即停止使用。

Battery Type: AAA

Follow the steps below to install the batteries:

1. Open the battery compartment cover.
2. Insert 4 AAA batteries with the correct polarity. Make sure it is connected with the correct polarity to avoid damage.
3. Replace battery compartment cover.

Low battery alarm: When the battery is lower than 4.2V, the transmitter will give a alarm with the LED flashing slowly.

\*Note: When installing the batteries, be careful to handle the positive and negative poles. (As shown in the picture on the right)

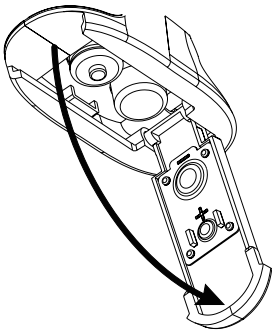
电池类型使用：AAA 电池

请按照以下步骤安装发射机电池：

1. 打开电池仓盖。
2. 将 4 颗电量充足的 AAA 电池装入电池仓内，注意正负极方向并确保电池上的金属端子与电池仓内的金属端子接触。
3. 盖好电池仓盖。

低电量报警：当电量低于 4.2V 时，发射机即发出声音报警同时 LED 慢闪

\*注：安装电池时，请留意电池正负极，避免安装错误。（如右图所示）



Receiver and Servo Installation 接收机与舵机安装


Make sure that the receiver is mounted in an appropriate location within the model, to ensure a stable signal, maximum range and to mitigate external interference, follow these guidelines:

Pay attention to the following when installing the receiver:

- 1. "Make sure the receiver is not installed near motors or sources of electrical noise.
- 2. Keep the receivers antenna away from conductive materials such as carbon or metal. To ensure normal function, make sure there is a gap of at least 1cm between the antenna and the conductive material.

请结合相应模型的结构选择合适的位置安装接收机， 同时为了确保接收机的性能和遥控距离的稳定， 并防止外界干扰， 请注意以下操作事项：

- 1. 确保接收机安装在远离电机， 电子噪声过多的区域。
- 2. 接收机天线需远离导电材料， 例如金属棒和碳纤维物质。为了避免影响正常工作， 请确保接收机和导电材料之间至少有 1 厘米以上的距离。

 **Caution**  
小心

To prevent damage do not power on the receiver during installation.  
准备过程中， 请勿连接接收机电源， 避免造成不必要的损失。

Instructions 操作指引

After setting up, follow the instructions below to operate the system.

准备操作完成后， 您可以按照本章指引开始使用本产品。


Power On 开机

Follow the steps below to turn on the transmitter:


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

请按照以下步骤进行开机：

- 1. 检查系统状态， 确保电池电量充足且安装正确。
- 2. 将电源开关拨到 [ON] 位置， R.LED 灯常亮。
- 3. 连接接收机电源。
- 为保障模型及人员安全， 使用时请先打开发射机再给接收机上电

 **Note**  
警告

Operate with caution in order to avoid damage or injury.  
此时系统已启动， 请谨慎操作， 否则可能导致产品损坏或人员伤亡。

 **Note**  
警告

Make sure that the throttle trigger is at its neutral position and the switches are set to their proper position.  
为了您的安全请将发射机开关和油门打到安全位置。



## LED Indicator LED 指示

1. R.LED: The red power indicator;
2. G.LED: The green status indicator;
3. RX.BATT: ESC battery power indicator.
  - When the power is high, the RX.BATT LED will be solid on in green.
  - When the power is medium, the RX.BATT LED will be solid on in orange.
  - When the power is low, RX.BATT LED will be solid on in red.
  - When the power is ultra low, the RX.BATT LED will be flash slow in red.
  - When the receiver is not connected, the RX.BATT LED will maintain the last indicated state.

1. R.LED: 红色电源指示灯;
2. G.LED: 绿色状态指示灯;
3. RX.BATT: 电调电池电量指示灯
  - 电量高: 指示灯绿色常亮
  - 电量中: 指示灯橙色常亮
  - 电量低: 指示灯红色常亮
  - 电量过低: 指示灯红色慢闪
  - 接收机掉码: 指示灯保持最后的指示状态

## Binding 对码

The transmitter and receiver have already been bound at the factory.

However if the receiver needs to be replaced or additional receivers bound follow these steps:

1. Turn on the transmitter while holding the bind button to enter bind mode. G.LED will start flashing quickly.
    - Once in bind mode release the bind button.
  2. The receiver will power on and wait for 1 second ,if without connection, it will enter the matching code automatically;
  3. Once the binding is successful, the receiver LED and the G.LED of the transmitter will be solid on.
- \*Note: When binding, put the transmitter into bind mode first, then the receiver. If the binding is not completed within ten seconds, the LED of the receiver will enter its slow flashing state.

发射机和接收机在出厂前已对码成功。

如需更换其他的发射机或接收机, 请按照如下步骤进行对码:

1. 将发射机按住对码按键 (BIND) 开机即进入对码状态, 此时 G.LED 快闪, 松开对码按键;
2. 接收机上电等待 1 秒没有连接即自动进入对码状态;
3. 对码成功后, 接收机及发射机指示灯常亮;

\*注: 对码时请先将发射机进入对码状态, 再将接收机进入对码状态; 若 10 秒内对码没有完成, 接收机 LED 指示灯进入慢闪状态。

## Instructions 操作指引

### Stick Calibration 摇杆校准

This function is used to set the neutral position for throttle and wheel.

Every transmitter is calibrated before leaving the factory, however if recalibration is required, please follow these steps:

1. Turn and hold the wheel as far clockwise as it will turn, hold the throttle all the way forward, then turn on the transmitter in calibration mode.
  - The R.LED and G.LED will flash twice.
  - The RX.BATT LED will be solid on in yellow.
2. Calibrate steering wheel: Turn the steering wheel to max and min travel point in clockwise and counterclockwise.
  - The R.LED will be off.
  - The RX.BATT LED will be solid on in red.
3. Throttle trigger calibration: Push/pull the throttle trigger to forward/backward as far as it will go.
  - When the calibration is completed, the G.LED will be off.
  - The RX.BATT LED will be solid on in green.
4. Both steering wheel and throttle trigger have finished the calibration.
  - The RX.BATT LED will be off.
5. Once the calibration is finished, press the BIND button to save and exit.

该功能可以用于方向手轮和油门扳机的中位角度修正。

发射机在出厂前已校准完成，如需要重新校准，请按照以下步骤执行。

1. 同步将手轮顺时针打到最大、扳机往前推到底并开机，进入校准模式功能；
  - R.LED 指示灯和 G.LED 指示灯二闪一灭
  - RX.BATT 指示灯黄色常亮
2. 方向手轮校准: 将手轮顺时针和逆时针转到最大最小；
  - R.LED 指示灯灭
  - RX.BATT 指示灯红色常亮
3. 油门扳机校准: 将扳机向前向后推到最大和最小；
  - G.LED 指示灯灭
  - RX.BATT 指示灯绿色常亮
4. 方向手轮油门扳机均校准通过；
  - RX.BATT 指示灯灭
5. 校准完成后按“BIND”键退出并保存数据。

### Power Off 关机

Follow the steps below to turn off the system:

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

请按照以下步骤进行关机：

1. 断开接收机电源；
2. 将电源开关拨到 [OFF] 位置，使发射机关闭。



Make sure to disconnect the receiver power before turning off the transmitter. Failure to do so may lead to damage or serious injury.  
关闭时，请务必先关闭接收机电源，再关闭发射机，否则可能导致模型损坏、人员受伤。

## Channel Description 通道说明

The transmitter outputs a total of 4 channels, which are assigned as below, as well as the functions.

- CH1 : The assigned control is the steering wheel. CH1 controls the steering to enable a car to turn left or right.
- CH2 : The control is the throttle trigger. CH2 controls the throttle to enable a car to move forward or backward.
- CH3 : The control is the CH3 three-position switch. Users can customize the channel function. For example, function as a fast /slow-position servo channel.
- CH4 : The control is the CH4 button switch. Users can customize the channel function. For example, control the car lights (short-press to switch the car light mode), and switch the drive control/ four-wheel steering function.

该发射机共输出 4 个通道，控件分配和相应功能如下：

- CH1 通道：控件为方向手轮，功能为方向，控制车子左右转向。
- CH2 通道：控件为油门扳机，功能为油门，控制车子前后行驶。
- CH3 通道：控件为 CH3 三档开关，可自定义通道功能，如可作为快慢档舵机通道。
- CH4 通道：控件为 CH4 按键开关，可自定义通道功能，如可控制车灯（短按切换车灯工作模式）、可切换驱动控制 /四轮转向功能。

## Channel Reverse 通道反向

This function is used to adjust the action direction of the servo or motor

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

该功能用于调整通道的动作方向。

旋钮 ST.REV/TH.REV 分别为 CH1、CH2 通道反向按键，开关上拨表示反向，下拨表示正常。

## Trims 微调

The ST.TRIM switch is used to adjust the trim for CH1 (steering), and can also adjust the trim for CH3 as multiplexing mode. The TH.TRIM switch is used to adjust the trim for CH2(throttle), and can also adjust the trim for CH4.

Refer to [Mode Switching] for multiplexing switching mode.

ST.TRIM/TH.TRIM: Counterclockwise adjustment to increase the trim value. The maximum value is 120us.

ST.TRIM/TH.TRIM: Clockwise adjustment to decrease the trim value. The minimum value is -120us.

Note: After the throttle trim is changed, the receiver needs to be re-powered on to recognize the new throttle neutral. Otherwise, an exception may occur during vehicle reversing.

ST.TRIM 为 CH1 方向微调，可复用为 CH3 通道微调；

TH.TRIM 为 CH2 油门微调，可复用为 CH4 通道微调；

以上具体复用切换方式见 [模式切换]。

调节范围：-120us ~ +120us；

ST.TRIM/TH.TRIM：逆时针调节，增大微调值，最大为 120us；

ST.TRIM/TH.TRIM：顺时针调节，减少微调值，最小为 -120us。

注：CH2 油门微调调整后，接收机须重新通电以识别新的油门中位，否则可能会出现倒车异常的现象。

## D/R 舵量调节

The ST. D/R switch is used to adjust the servo travel amount CH1(Steering Trim), and can also adjust the travel amount for CH3 as multiplexing mode.

The TH.D/R switch is used to adjust the servo travel amount for CH2(Throttle), and can also adjust the travel amount for CH4 as multiplexing mode.

Refer to [Mode Switching] for multiplexing switching mode.

Adjustment range: 0-120%;

ST.D/R: Counterclockwise adjustment to increase the servo travel amount. The maximum value is 120%.

ST.D/R: Clockwise adjustment to decrease the servo amount. The minimum value is 0%.

TH.D/R: Counterclockwise adjustment to increase the servo amount. The maximum value is 120%.

TH.D/R: Clockwise adjustment to decrease the servo amount. The minimum value is 0%.

ST.D/R 为 CH1 方向舵量调节, 可复用为 CH3 舵量调节;

TH.D/R 为 CH2 油门舵量调节, 可复用为 CH4 舵量调节;

调节范围: 0 ~ 120%;

ST.D/R: 逆时针调节, 增加舵量, 最大为 120%;

ST.D/R: 顺时针调节, 减小舵量最小为 0%。

TH.D/R: 逆时针调节, 增加舵量, 最大为 120%;

TH.D/R: 顺时针调节, 减小舵量最小为 0%。

## Mode switching 模式切换

This function is for reusing the ST.TRIM and ST.D / R buttons for different channels setting:

Under normal power-on condition, press the BIND button twice (within 1S) to switch between mode 1 and mode 2. By default, mode 1 is used.

Mode 1: R.LED is always on. G.LED is off. ST.TRIM is for CH1 trim. ST.D/R is for CH1 servo adjustment . TH.TRIM is for CH2 throttle trim. TH.D/R is for CH2 throttle servo adjustment .

Mode 2: R.LED and G.LED are flashing alternately. ST.TRIM is for CH3 trim. ST.D/R is for CH3 servo adjustment . TH.TRIM is for CH4 trim. TH.D/R is for CH4 servo adjustment .

此功能用于将 ST.TRIM 及 ST.D/R 旋钮复用于 CH3、CH4 通道 (详见 [微调]、[舵量调节] )。

功能设置:

正常开机状态下快速短按两下对码按键 (BIND) (1 秒 内) 即可循环切换模式一、二, 开机默认为模式一。

模式一: R.LED 指示灯常亮, G.LED 示灯不亮, ST.TRIM 调节 CH1 微调, ST.D/R 调节 CH1 舵量;

TH.TRIM 调节 CH2 油门微调, TH.D/R 调节 CH2 油门舵量;

模式二: R.LED 指示灯和 G.LED 指示灯交替闪烁, ST.TRIM 调节 CH3 微调, ST.D/R 调节 CH3 舵量;

TH.TRIM 调节 CH4 微调, TH.D/R 调节 CH4 舵量。

# Transmitter Specifications 发射机规格

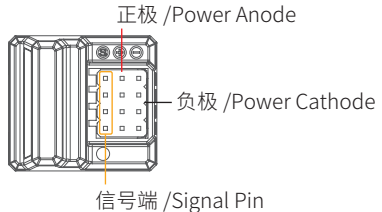
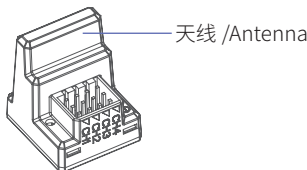
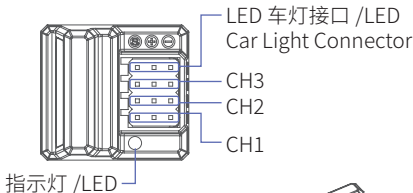
Product : Model FS-MG44-BS	产品型号 : FS-MG44-BS
Channels : 4	通道个数 : 4
Model Type : Car or Boat	适配模型 : 车、船
RF : 2.4GHz ISM	无线频率 : 2.4GHz ISM
Maximum Power : <20dBm (e.i.r.p.) (EU)	发射功率 : <20dBm
2.4GHz Protocol : 2A-BS	无线协议 : 2A-BS
Resolution : 1024	通道分辨率 : 1024 级
Input Power : 6V/DC or 1.5AAA*4	输入电源 : 6V DC 1.5AAA*4
Charging Interface : None	充电接口 : 无
Distance : >150m	遥控距离 : >150m (空旷无干扰地面距离)
Life time : According to Battery Type	续航时间 : 依电池类型
Low Voltage Warning : <4.2V	低电压报警 : < 4.2V
Antenna Type : Single Built-in Antenna	天线类型 : 内置单天线
Data Interface : None	数据接口 : 无
Temperature Range : -10℃ ~ +60℃	温度范围 : -10℃ ~ +60℃
Humidity Range : 20% ~ 95%	湿度范围 : 20% ~ 95%
Online Update : None	在线更新 : 无
Dimensions : 118*73*145mm	外形尺寸 : 118mm*73mm*145mm
Weight : 130g	机身重量 : 130g
Certifications : CE, FCC ID: N4ZMG400, MIC:R210-167762, IC: 25584-MG4BS00	认证 : CE, FCC ID:N4ZMG400, MIC:R210-167762, IC:25584-MG4BS00

# Receiver Overview 接收机概览

## Introduction 产品介绍

FS-R4P1-BS based on 2A-BS protocol is a 3-channel receiver with one-way transmission, featuring a built-in antenna, PPX4 waterproof and a compact design. The receiver will enter the binding state once it is powered on, outputting PWM signal and car light control signal.

FS-R4P1-BS 是一款采用 2A-BS 协议的 3 通道单向接收机。本款接收机内置天线，PPX4级防水，设计小巧紧凑，通电自动对码，输出 PWM 信号和车灯控制信号，可适配多种模型车使用。



## Receiver Specifications 接收机规格

Product Model: FS-R4P1-BS	产品型号: FS-R4P1-BS
Compatible Transmitters:FS-MG4-BS	适配发射机: FS-MG4-BS
Compatible Model:Cars	适配模型: 车
Number of PWM Channels: 3	PWM 通道数: 3
RF: 2.4GHz ISM	无线频率: 2.4GHz ISM
RF Protocol: 2A-BS	无线协议: 2A-BS
Antenna: One built-in antenna	天线类型: 内置单天线
Distance: More than 150m	遥控距离: > 150 米 (空旷无干扰地面距离)
Operating Voltage: 3.5 ~ 8.4V/DC	工作电压: 3.5 ~ 8.4V/DC
Number of Car Light Connectors: 6 (DB01 Car	车灯组数: 6 (LED 车灯接口连接 DB01
light control board connects to the LED car light connector)	车灯驱动板)
Data Output: PWM	数据输出: PWM
Temperature Range: -10℃ ~ +60℃	温度范围: -10℃ ~ +60℃
Humidity Range: 20% ~ 95%	湿度范围: 20% ~ 95%
Waterproof: PPX4	防水等级: PPX4
Online Update: None	在线更新: 无
Dimensions: 22.6*20.6*25.5mm	外形尺寸: 22.6*20.6*25.5mm
Weight: 6g	机身重量: 6g
Certifications: CE, FCC	• 认证: CE, FCC

## Installation 安装说明

The receiver has a built-in antenna. In order to ensure the signal strength and avoid the remote control distance affected, when installing the receiver, you need to pay attention to the followings:

- The receiver antenna must be kept perpendicular to the model body (as shown in the picture)!
- It is recommended to install the receiver on a high level surface of the model body without metal obstructions around the receiver.

本款接收机为内置天线, 为保证信号强度, 以免影响遥控距离, 安装接收机时, 需注意以下事项:

- 接收机天线须与模型机身保持垂直 (如图所示) !
- 建议将接收机安装在模型机身位置较高的水平面上, 且四周无金属遮挡。

## Binding 对码

The receiver automatically enters the binding state once it is powered on.

- 1.First put the transmitter into binding mode (See the transmitter s user manual for instructions on how to activate binding mode.)
- 2.When the receiver is powered on and waits for 1 second t will automatically enter the binding state ifit is not connected.
- 3.The receiver LED is solid on after the binding is successful (The transmitter automatically exits the binding state after the successful binding).
4. Verify that the transmitter and receiver are working properly. If you need to re-bind, repeat the above steps.

## Receiver Overview 接收机概览

Notes :

- 1.Set the transmitter to its binding state first, and then set the receiver to its binding state. If the binding is not finished within 10s. the LED of the receiver will enter its slow flashing state.
- 2.Because this receiver only supports one-way binding, if the binding transmitter supports one-way and two-way mode binding, please set the one-way mode at the transmitter side before starting the binding.

本款接收机上电即自动进入对码状态。

- 1.将发射机进入对码状态（发射机进入对码状态的方式可能不同，请根据发射机的使用说明书进行操作）；
- 2.接收机上电等待1 秒没有连接将自动进入对码；
- 3.接收机 LED灯常亮，即对码成功（发射机对码成功后自动退出对码状态）；
- 4.检查发射机、接收机是否正常工作。如需重新对码，请重复以上步骤。

注：

- 1.对码时请先将发射机进入对码状态，再将接收机进入对码状态，若 10s 内对码没有完成，接收机指示灯进入慢闪状态；
2. 因本款接收机仅支持单向对码，若对码的发射机支持单双向模式切换，请先在发射机端设置为单向模式后再开始对码。

### Attention 注意事项

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
  - Make sure the receiver's battery is disconnected before turning off the transmitter, failure to do so can result out of control.
  - Unreasonable setting of the Failsafe may cause accidents.
  - Make sure the receiver is mounted away from motors, electronic speed controllers or any device that emits excessive electrical noise.
  - Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.
  - Do not power on the receiver during the setup process to prevent loss of control.
- 
- 使用前必须确保本产品与模型安装正确，否则可能导致模型发生严重损坏。
  - 关闭时，请务必先关闭接收机电源，然后关闭发射机。如果关闭发射机电源时接收机仍然在工作，将会导致遥控设备失控。失控保护设置不合理可能引起事故。
  - 确保接收机安装在远离电机，电子调速器或电子噪声过多的区域。
  - 接收机天线需远离导电材料，例如金属棒和碳物质。为了避免影响正常工作，请确保接收机天线和导电材料之间至少有 1 厘米以上的距离。
  - 准备过程中，请勿连接接收机电源，避免造成不必要的损失。



**Caution 注意事项**

- Do not let children use this product without the supervision of an adult.
  - The ESC might get hot during use, be careful when handling it.
  - When soldering input/output wires and connections, set the iron to 60W minimum.
  - Always disconnect the battery after use, do not store with the battery connected.
  - Do not use near flammable materials.
  - If the ESC overheats, emits smokes or burns, immediately discontinue use, disconnect the battery and seek assistance.
- 不能让小孩在无成人监管的情况下使用此产品。
  - 电调在使用过程中可能会变烫,拿的时候要小心。
  - 若需对电调的输入输出线、插头做相关焊接时,请使用至少60W功率的焊接设备进行焊接。
  - 不使用电调时需要断开电池。
  - 使用电调时不能靠近易燃物品。
  - 如果电调出现过热,冒烟或者着火,请立即停止使用,断开电池并寻求帮助。

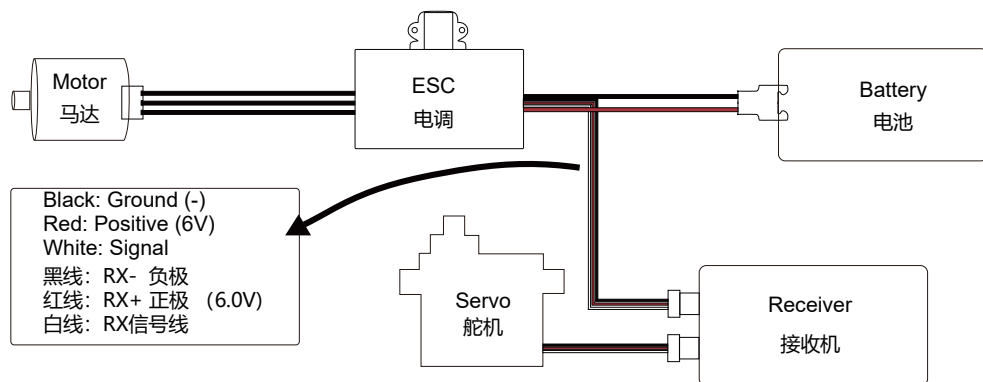
**Features 主要特性**

- Completely water-proof and dust-proof.
- 32-bit microprocessor can support more powerful processing capability and more accurate motor output.
- Excellent start-up, acceleration and linearity features.
- Multiple protection features: Low voltage cut-off protection, over-heat protection and throttle signal loss protection.

- 1.全防水设计,适应各种气候环境。
- 2.电调使用了32位处理器,提供更加强大的运算能力及更精准的油门输出。
- 3.更加优秀的油门启动、加速度及油门线性。
- 4.多重保护功能:电池低压保护、过温保护、油门信号丢失保护。

**Specification 产品规格**

Product Name	Cont./ Peak Current	Input	BEC Output	Size (mm)	Weight (g)	ESC Programming
产品名称	持续/峰值电流	电池节数	BEC输出	尺寸	重量	参数编程功能
SL 10A 2S	10A/30A	2S Lipo	6V/1A	33.4*20.3*14	12g	No

**Connection 电调连接-示意图****Connection Installation 电调连接-说明****Battery Wire Connection**

When connecting the battery, pay attention to polarity: incorrect connection will damage the ESC and Battery.

As shown in the figure above, connect the positive (+) wire is connected to (+) battery par, and the negative (-) wire is connected to the (-) battery port.

**Motor Wire Connection**

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.

**Receiver Wire Connection**

The signal wire supplies 6.0V to the receiver, servo, etc. So there is no need to connect an additional battery. External power connected to the receiver may damage the ESC.

Black wire: RX-

Red wire: RX+ 6.0V

White wire: RX-Signal

**电池连接:**

电调连接电池时,要特别注意正负极位置,错误的连接会损坏电调和电池。如上图所示,电调正极线连接电池的正极,负极线连接电池的负极。

**电机连接:**

电调与马达相连无严格的线序要求,电调的#A/#B/#C可以与电机的三线随意对接,若出现转向相反,任意交换两条马达线即可。

**接收机连接:**

信号线提供6.0V电压给到接收机、舵机等,所以不需要额外的电池,外接电源到接收机可能会损坏电调。

黑线: RX- 负极

红线: RX+ 正极 (6.0V)

白线: RX信号线

Trouble shooting

故障快速处理

Trouble shooting 故障现象	Possible causes 可能原因	Solutions 解决办法
The motor stuttered but couldn't start.  电机抖动，无法启动。	1. Some soldering between the motor and the ESC was not good. 2. The ESC was damaged (some MOSFETs were burnt).  1、电调和电机连接的插头有虚焊。 2、电调故障(部分功率管MOSFET 烧坏)。	1. Check all soldering points, please re-solder if necessary 2. Contact the distributor for repair or other customer services.  1、检查各焊接点，必要时重新焊接。 2、联系经销商处理维修事宜。
The car ran forward/backward slowly when the throttle trigger was at the neutral position.  油门在中点时,车子缓慢前进或缓慢后退。	1. The neutral position on the transmitter was not stable, so signals were not stable either. 2. The ESC calibration was not proper.  1、遥控器中位有漂移,导致信号不稳。 2、油门行程没校准好。	1. Replace your transmitter 2. Re-calibrate the throttle range or fine tune the neutral position on the transmitter.  1、更换信号稳定的摇控器 2、重新校准油门行程。

Software Functions and Settings 电调软件功能及设置

Power On/Off ESC

Press the switch to turn on the ESC, press the switch again to turn off the ESC.

Throttle Calibration

1. Turn on the transmitter (pull the throttle trigger to the full throttle position )
2. Turn on the ESC, motor emits "beep" tone, push the throttle trigger to the full brake position, motor emits "beep,beep", release the throttle trigger to neutral position, motor emits "beep,beep,beep" tone.
3. Turn off the ESC and turn on the ESC again, the throttle calibration is completed.

Protection

Low voltage Protection

The ESC will cut off the output when the ESC detects the 2 cells lipo battery voltage drops to 6.4V.

Thermal Protection

The ESC will gradually reduce the output to 50% but won't cut it off when the ESC temperature goes above 105℃.

Throttle Signal Loss Protection

The ESC will cut off the output immediately when the ESC detects loss of signal, and The ESC will resume the corresponding output after normal signals are received.

## 开关机：

按一下开关开机，再按一下开关关机。

## 校准油门行程：

1. 打开遥控器（油门放在最大位置）
2. 打开电调开关，马达滴响1声，油门推到最小，马达滴滴响2声，油门回中，马达滴滴滴响3声。关机，重新开机，油门较准完成。

## 保护：

1. 低压保护--锂电6.4V时:马达停止
2. 温度保护--105度保护，降低功率50%。
3. 信号丢失保护--信号丢失后，马达停止，信号恢复后，马达正常转动。

## Vehicle Setup 车辆设置

### Charging the Battery 电池充电

Car Battery: 2S Lipo 7.4V 900mAh

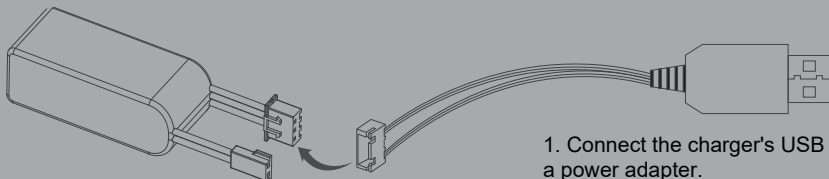
Charger: USB balance charger, charging time 30-45 minutes.

1. Connect the USB port of the balance charger to a power source, and then connect the battery to the balance charger to start charging
2. When charging, the LED light will be red, and when charging is complete, the LED light will be green.
3. Do not charge unattended!
4. If you notice that the battery or charger is overheating, immediately disconnect the battery and charger, as this may be caused by an internal short circuit.

车用电池：2S Lipo 7.4V 900mAh

充电器：USB平衡充，充电时长30-45min。

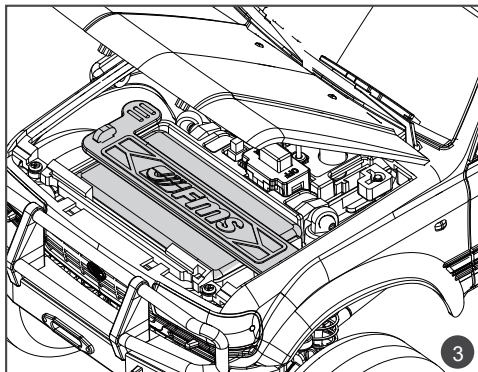
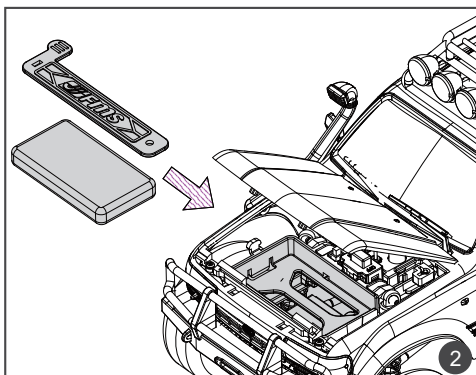
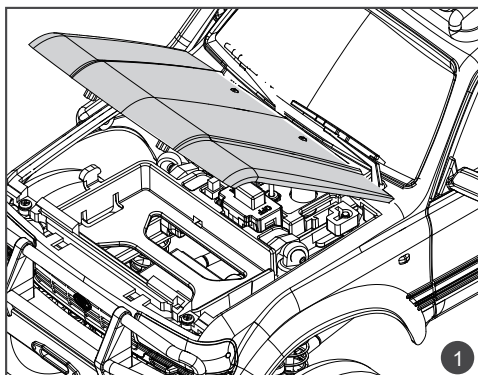
1. 将平衡充USB端口连接至电源，然后将电池连接至平衡充，充电开始。
2. 充电时，LED灯状态为红色；充电完成时，LED灯状态为绿色。
3. 请勿在无人看管的情况下进行充电！
4. 如果发现电池或充电器过热，请立即断开电池和充电器，因为这可能是由内部短路引起的。



2. Connect the battery to the charger.
2. 将电池连接到充电器上。

1. Connect the charger's USB port to a power adapter.
1. 将USB充电器端口连接到电源适配器。

## Connecting the battery 连接电池



Open the engine hood as shown, load the battery into the battery compartment and secure it in place with the silicone strap. Connect the battery plug to the female connector of the receiver/ESC combo unit, and then close the engine hood.

The battery plug :51005 2P Male

Battery compartment size: 43 x 19.8 x 12mm

如图所示，打开引擎盖，将电池放入电池舱并使用绑带固定；将电池插头连接到接收机/电调一体装置的母头，然后关闭引擎盖。

电池插头:51005 2P 公头

电池仓尺寸: 43 x 19.8 x 12mm



### NOTE 注意

1. If it is not in use for a long time, unplug and take off the battery to prevent battery leakage.
  2. The battery needs to be disconnected and take off from vehicle before it can be charged
  3. Do not open, disassemble, or attempt to repair the battery.
1. 如果长时间不使用本产品，请断开电池连接，并将电池取出，以防漏液。  
2. 给电池充电之前，请务必保证电池已断开连接，并已从车辆上取下。  
3. 不要打开、拆解或试图维修电池。

## Spare Parts List 配件列表

C2036	Front and rear light cup set	前/后灯杯组
C2037	Hood mount set	引擎盖连接座
C2038	Rooftop rack	行李架
C2039	Ladder and spare tire bracket	备胎架及梯子
C2040	Spotlight cup set	射灯
C2041	Rearview mirror and wiper	雨刮器及后视镜
C2280	Bumper and side panel	防撞
C2043	Lens	灯镜片
C2248	Hood (grey)	引擎盖灰色
C2249	Hood (yellow)	引擎盖黄色
C2250	Hood (blue)	引擎盖蓝色
C2251	Body shell (grey)	车壳灰色
C2252	Body shell (yellow)	车壳黄色
C2253	Body shell (blue)	车壳蓝色
C2256	Window	车窗
C2070	Mirror lens	镜片
C2072	Mirror lens logo plate	标志牌
C2077	Magnet for hood	引擎盖磁铁
C2258	Servo horn set	摇臂套装(黑色)
C2259	LiPo battery 2S 7.4V 900mAh	电池7.4V 2S 900mAh
C2260	Girder short version	短版金属大梁
C2264	Transmission gear box assembly	驱动牙箱成品
C3013	Transmission box shaft	齿轮箱传动轴
C3014	Transmission gear box plastic	传动箱胶件
C3018	Axle plastic parts	直桥胶件
C3019V2	Front portal axle cover V2	前门桥胶件 V2
C3020	C hub set	C座套件
C3021	Portal axle set	门桥轴
C3022	Rear wheel shaft set	后轮轴
C3023V2	Front dog bone set V2	狗骨 V2
C2268	CVD axle set B	传动轴 B
C3027	Servo mount	舵机座
C3030	Pinion gear	电机齿
C3031	Wheel hex adaptor	六角接合件
C2272	Screw	螺丝套装
C3034	Screw nut	螺母
C3035	Steering servo	转向舵机
C3036	Variable speed servo	换挡舵机
C3039V2	Bearing set V2	五金轴承 V2
C3059V2	Portal axle metal gear V2	门桥金属齿轮 V2
C2269	CVD axle set A	传动轴A
C3074	Ball head screw	单球头螺丝
C3075	Double ball head screw	双球头螺丝
C3080	M4 aluminium ball head	M4铝波头
C2270	Shift lever	换挡拉杆
C3111	Servo saver set	转向舵机保护套装
C3060	All terrain wheel	全地形车轮成品
C3061	Metal differential	金属差速器
C3062	Metal transmission gear	变速箱金属齿
C2266	Metal rod set	金属拉杆
C3066	Metal drive gear	金属差速器驱动齿轮
C3110	Aluminum axle	铝合金直桥

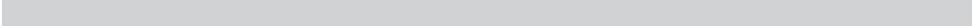
## Spare Parts List 配件列表

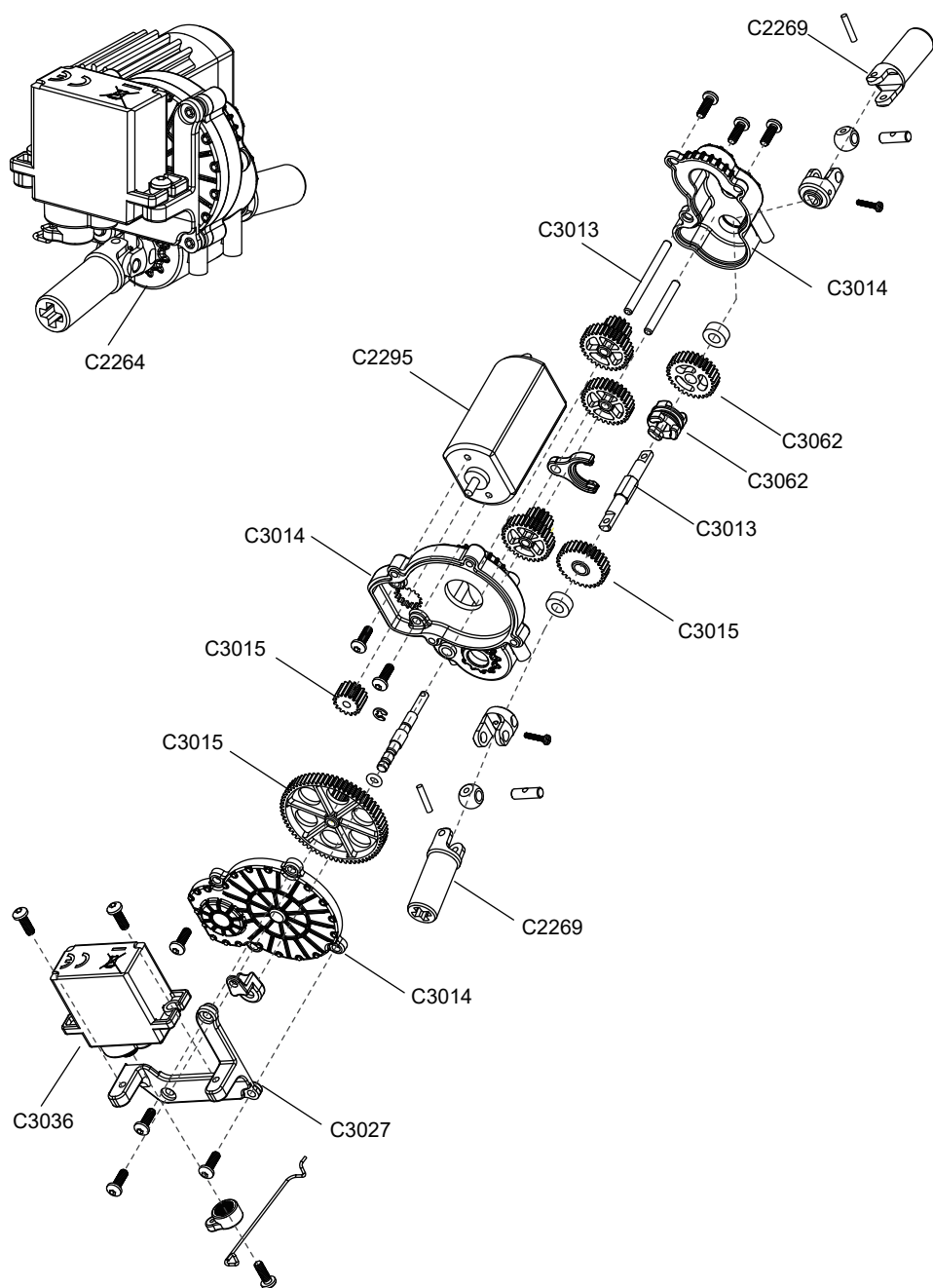
C2267	USB 2S LiPo quick charger cable	USB 平衡充电器 7.4V 2000mA
C3134	Brass steering servo arm horn black	铜舵机臂黑
C3137	Portal axle cover set black	黄铜金属门桥黑 (套)
C2273	Oil shock absorbers assembly	避震器
C2275	Trailer hook	拖钩
C2276	Triangle pole	八字拉杆
C2277	Shock tower	避震架
C2278	Girder supporter and gear box mount	大梁配件及牙箱固定件
C2279	Battery box	电池座
C2295	Motor set	电机套装
C2321	Cockpit and driver a set	仿真驾舱及驾驶员A套装 (黄发)
C2322	Cockpit and driver b set	仿真驾舱及驾驶员B套装 (棕发)
C2325	Wheel set (50ha)	轮毂 一对 (50HA)
C3312	Wheel set (30ha)	轮毂 一对 (30HA)
C3343	Brass wheel counterweight	黄铜轮毂配重
C3306	Utility trailer A sliver	共用拖斗A 银
C3307	Utility trailer B sliver	共用拖斗B 银
C3308	Utility trailer C sliver	共用拖斗C 银
C3309	Utility trailer A black	共用拖斗A 黑
C3310	Utility trailer B black	共用拖斗B 黑
C3311	Utility trailer C black	共用拖斗C 黑
C3379	Metal servo horn set	金属转向摇臂套装(黑色)
C3380	Metal variable speed horn	金属换挡摇臂套装(黑色)
C3381	Fire extinguisher (4pcs)	灭火筒 (4个)
C3382	Lifting jack (4pcs)	千斤顶 (4个)
C3383	Traffic cone red (4pcs)	锥形交通路标 红 (4个)
C3384	Traffic cone black (4pcs)	锥形交通路标 黑 (4个)
C3385	Escape lifting jack	猴爬杆装饰件
C3386	Luggage carrier set	行李套装
C3387	Luggage box set (black)	行李箱套装 (黑)
C3388	Oil drum set	油桶套装
C3389	Surfboard	冲浪板
C3390	Kayak (yellow)	皮划艇 (黄)
C3391	Beer crate	啤酒箱
C3395	Luggage box set (orange)	行李箱套装 (橙)
C3398	Kayak (red)	皮划艇 (红)
C3525	Body shell v2 (grey)	车壳V2 灰色
C3526	Body shell v2 (yellow)	车壳V2 黄色
C3527	Body shell v2 (blue)	车壳V2 蓝色
C3528	Fender set	轮包
C3529	Metal universal joint drive shaft	金属万向节传动轴
C3531	Scale cowhide roll	牛皮卷
C3532	Absorbers offset adjustor 2.5mm	减震调节器 2.5MM
C3533	Absorbers offset adjustor 3.0mm	减震调节器 3.0MM
C3534	Absorbers offset adjustor 3.5mm	减震调节器 3.5MM
C3535	Absorbers offset adjustor 4.0mm	减震调节器 4.0MM
C3591	Battery mount holder	电池带
C2257V3	Front axle assembly V3	前桥总成 V3
C2271V2	Rear axle assembly V2	后桥总成 V2
C3668	Girder supporter rear	大梁后接件
C3804	Rear body mount set	后车壳固定件
C3814	Body shell v2 (black)	车壳V2 黑色

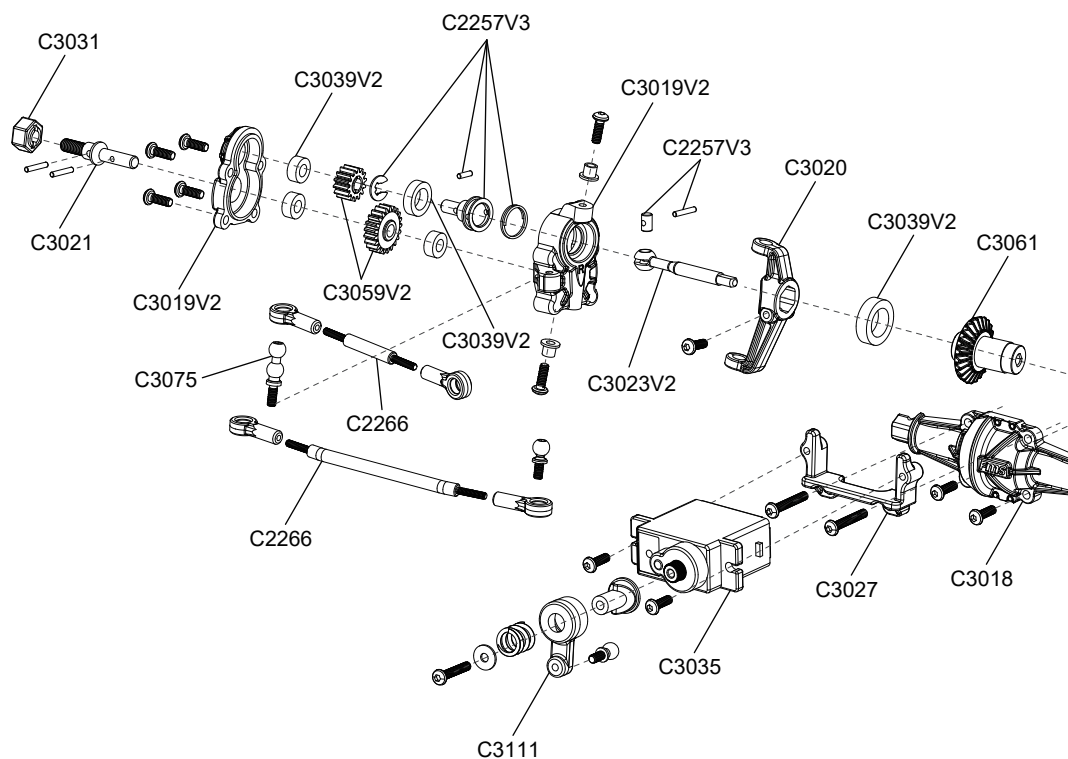


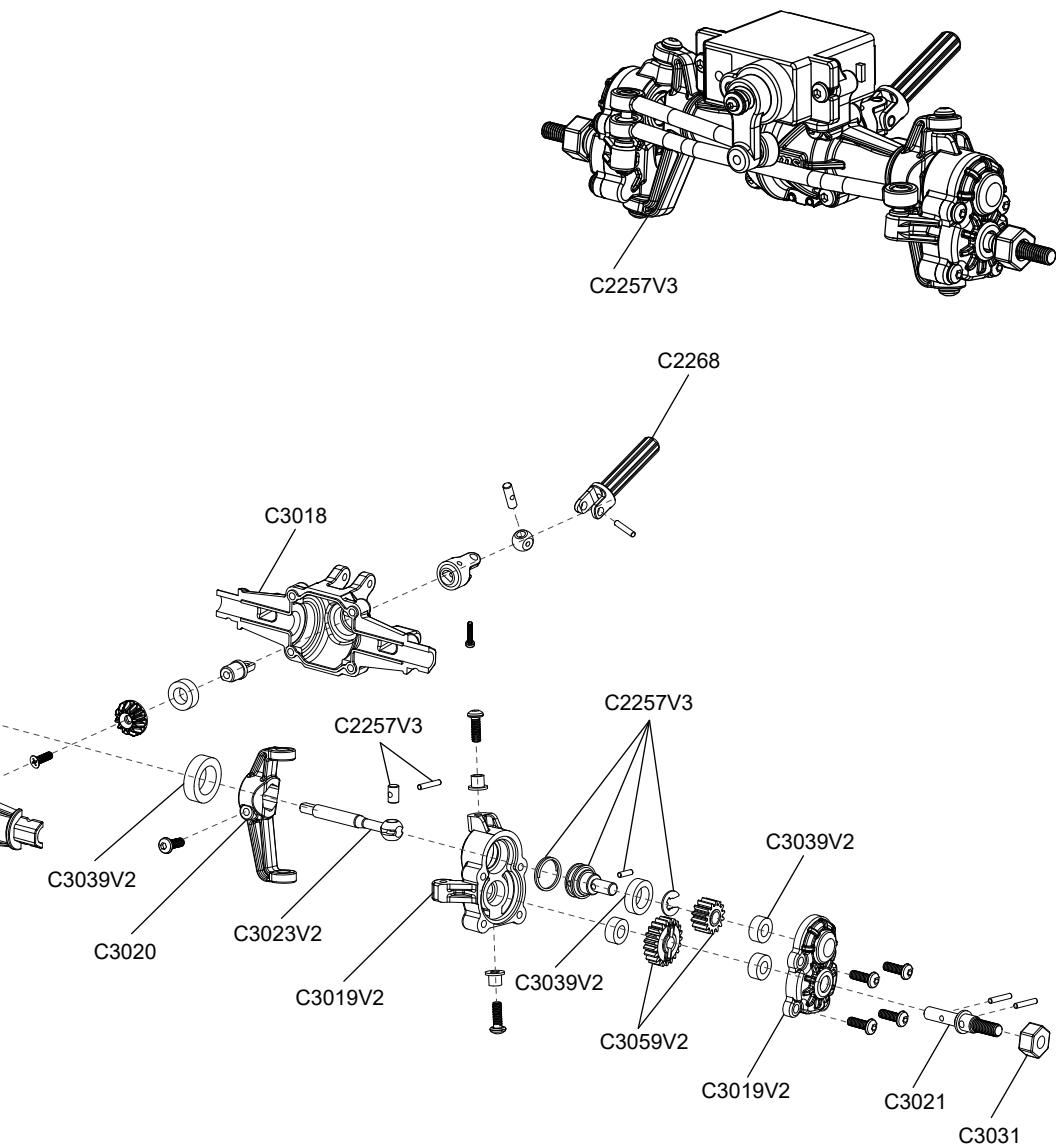
# Spare Parts List 配件列表

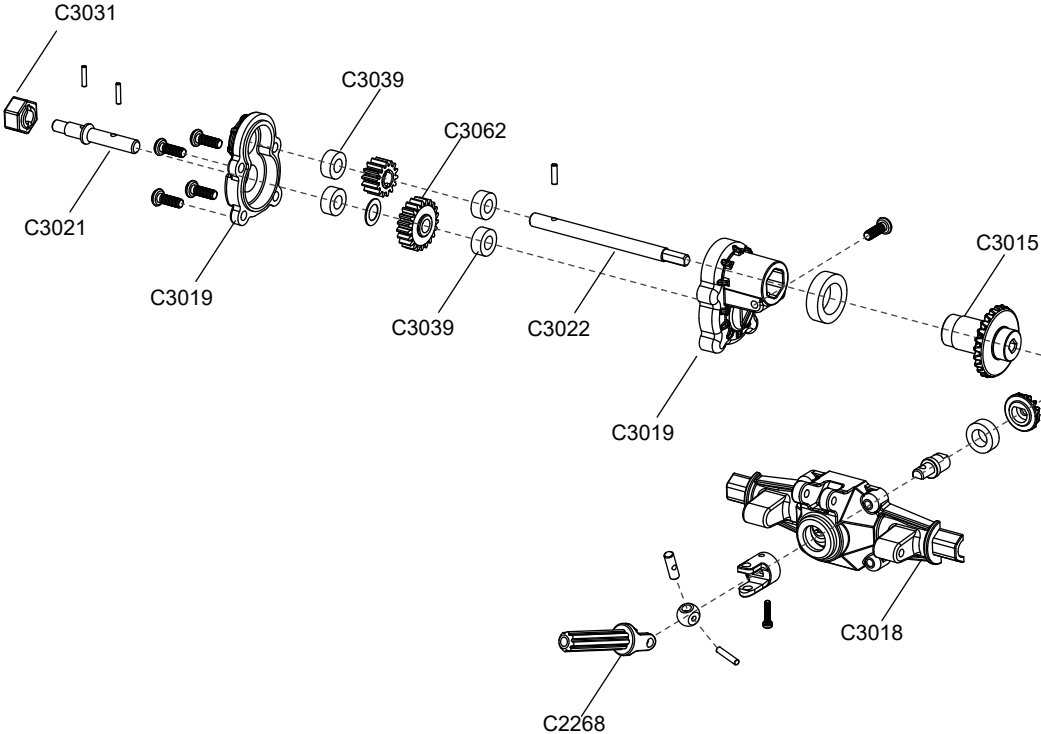
C3815	Hood (black)	引擎盖黑色
C3842	Receiver mount	接收座
C3882	Led wire set	灯线
C3656	MG44 + R4P1 transmitter receiver set BS version	MG44 + R4P1 发射器/电调接收器 BS
C3657	MG44 transmitter BS	MG44 发射器 BS
C3658	R4P1 receiver BS	R4P1 接收器 BS

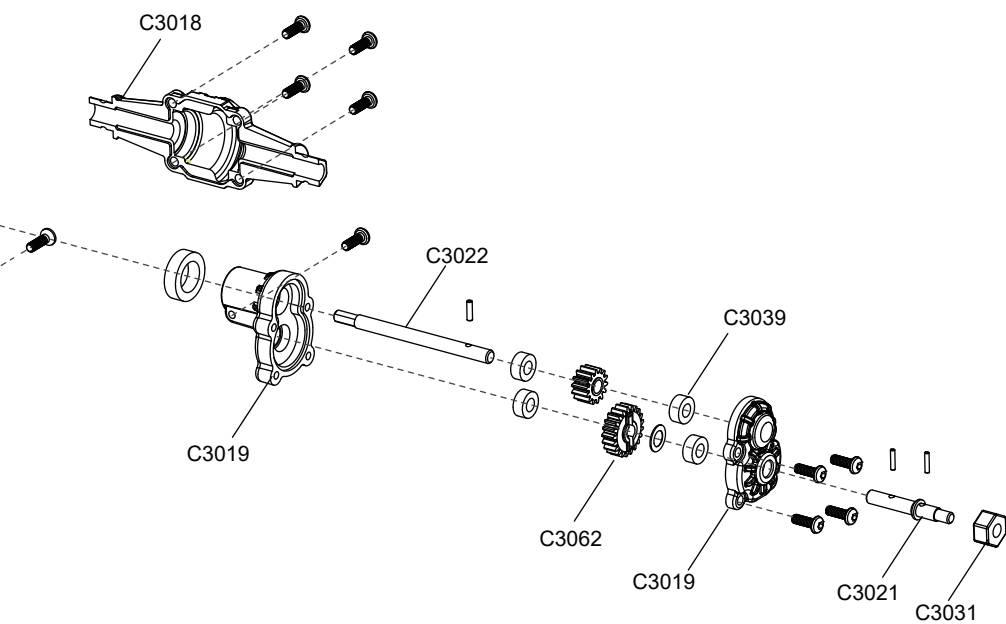
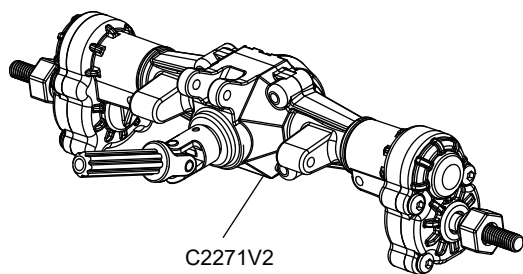


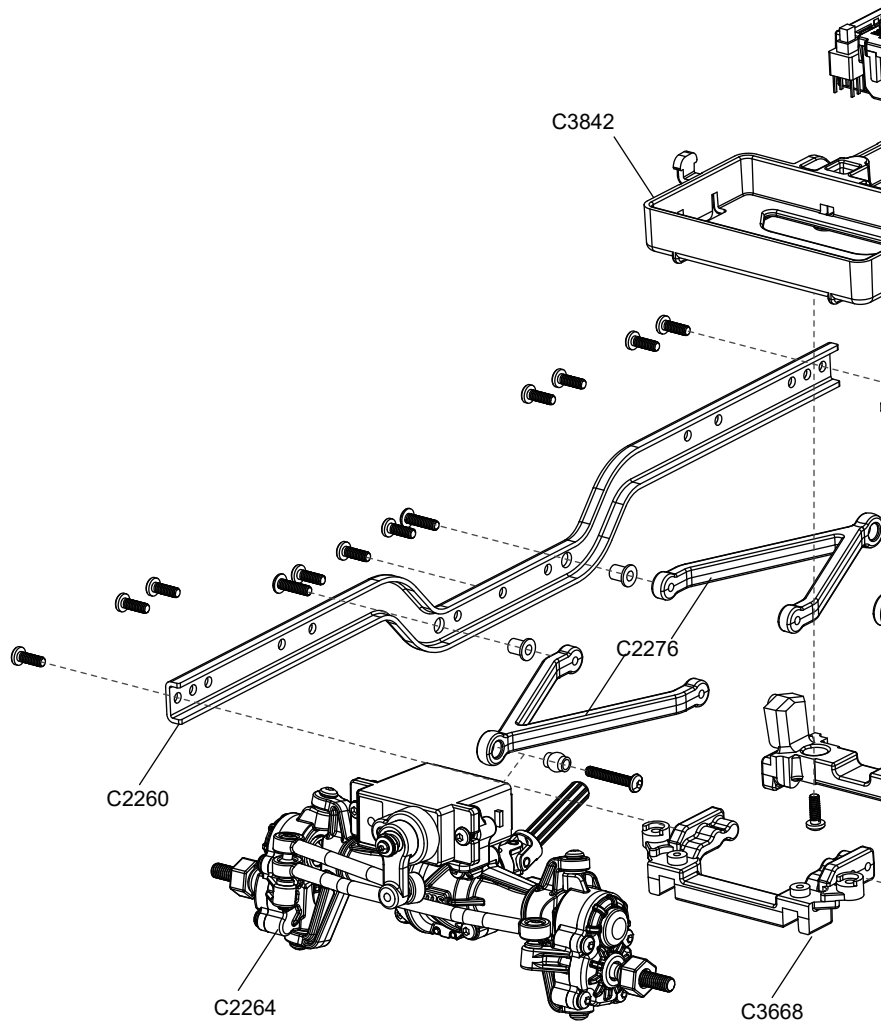




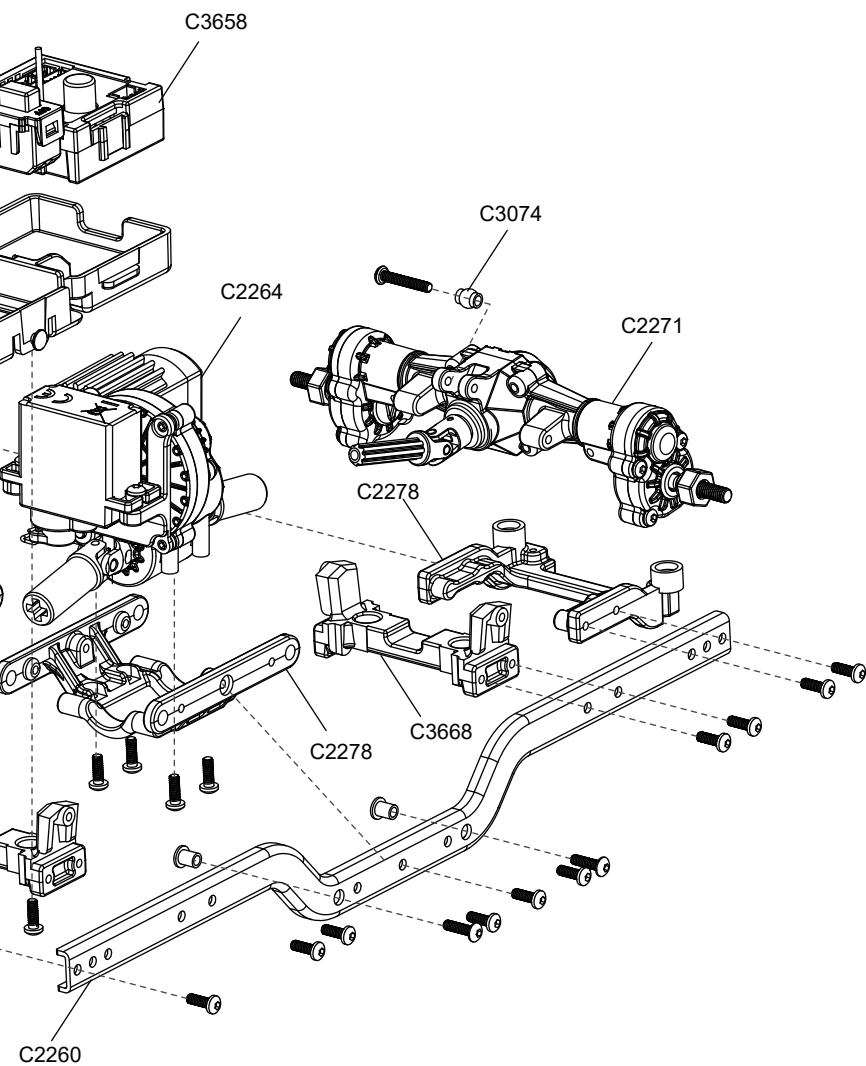


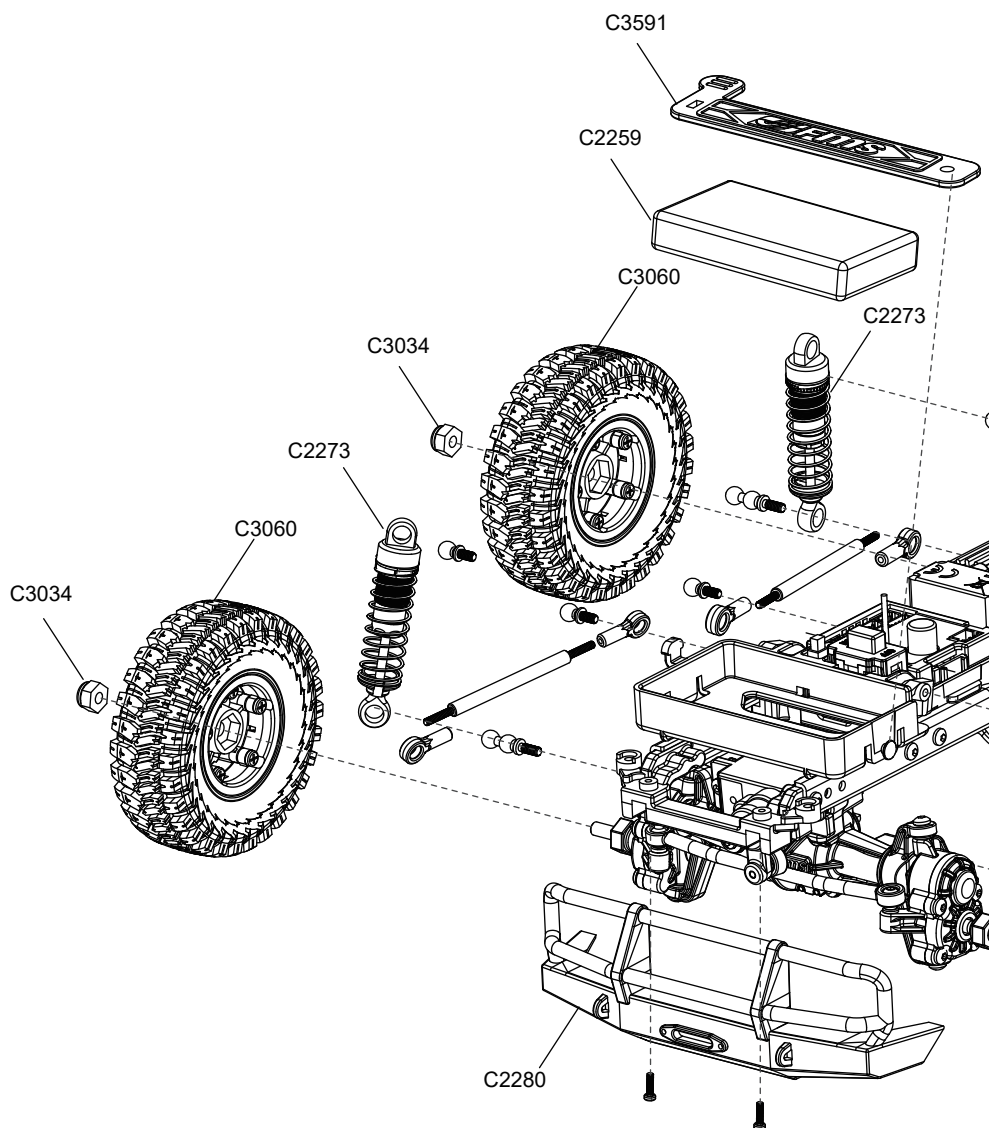


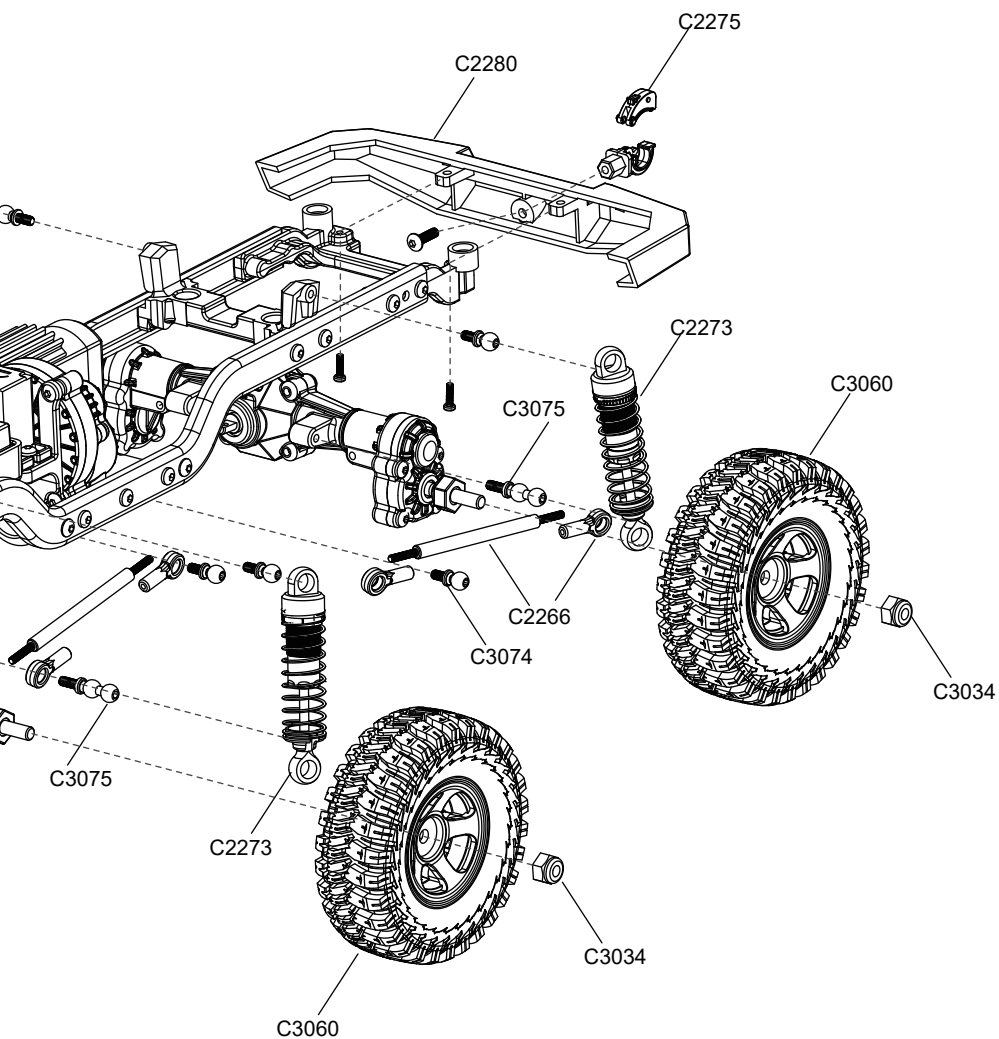


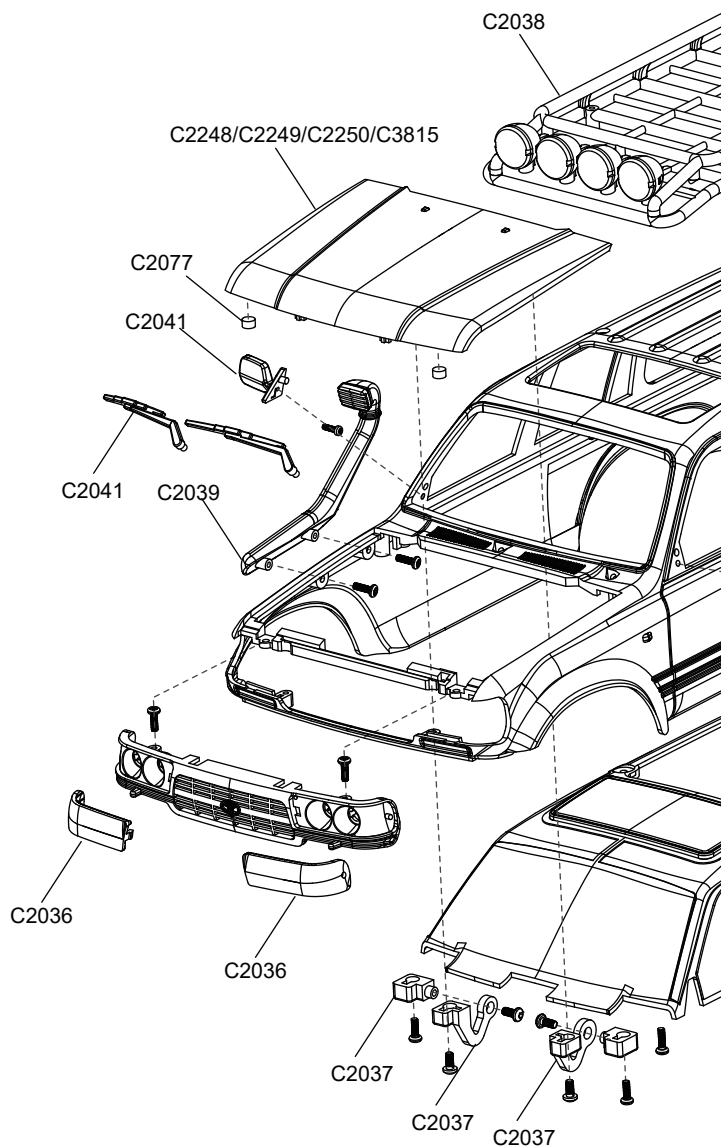


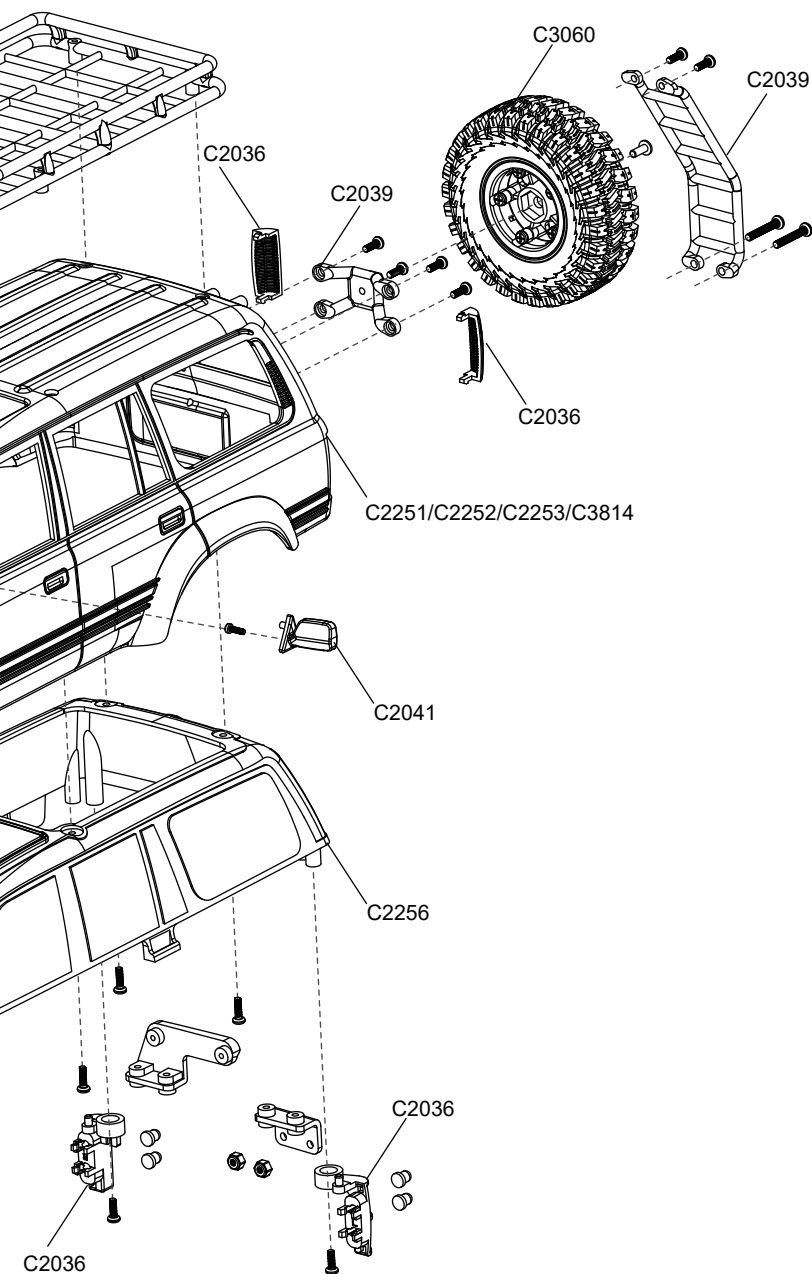


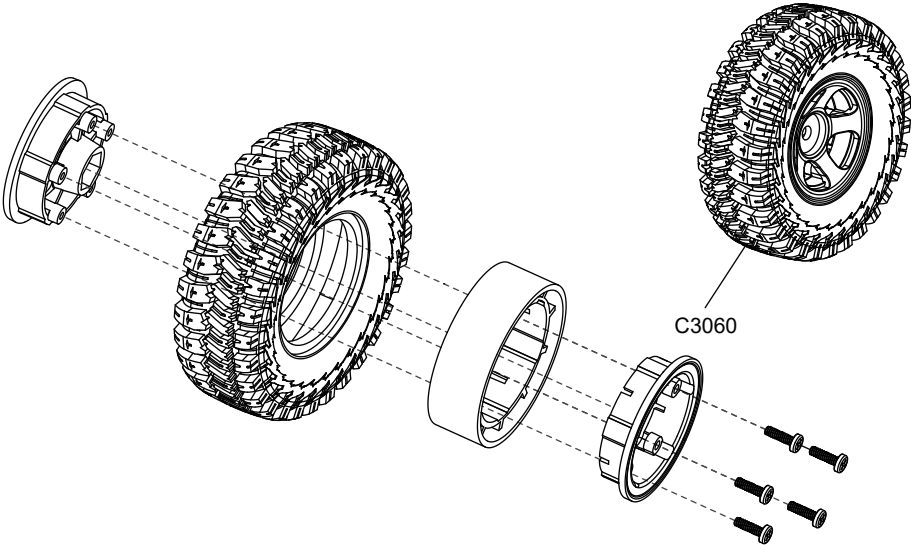
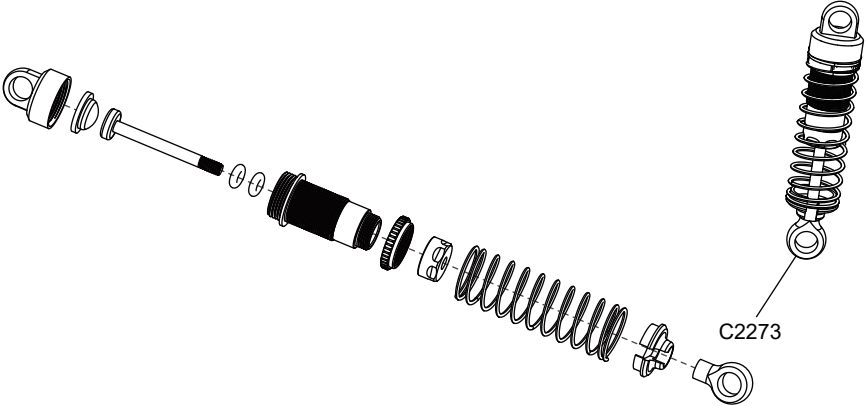


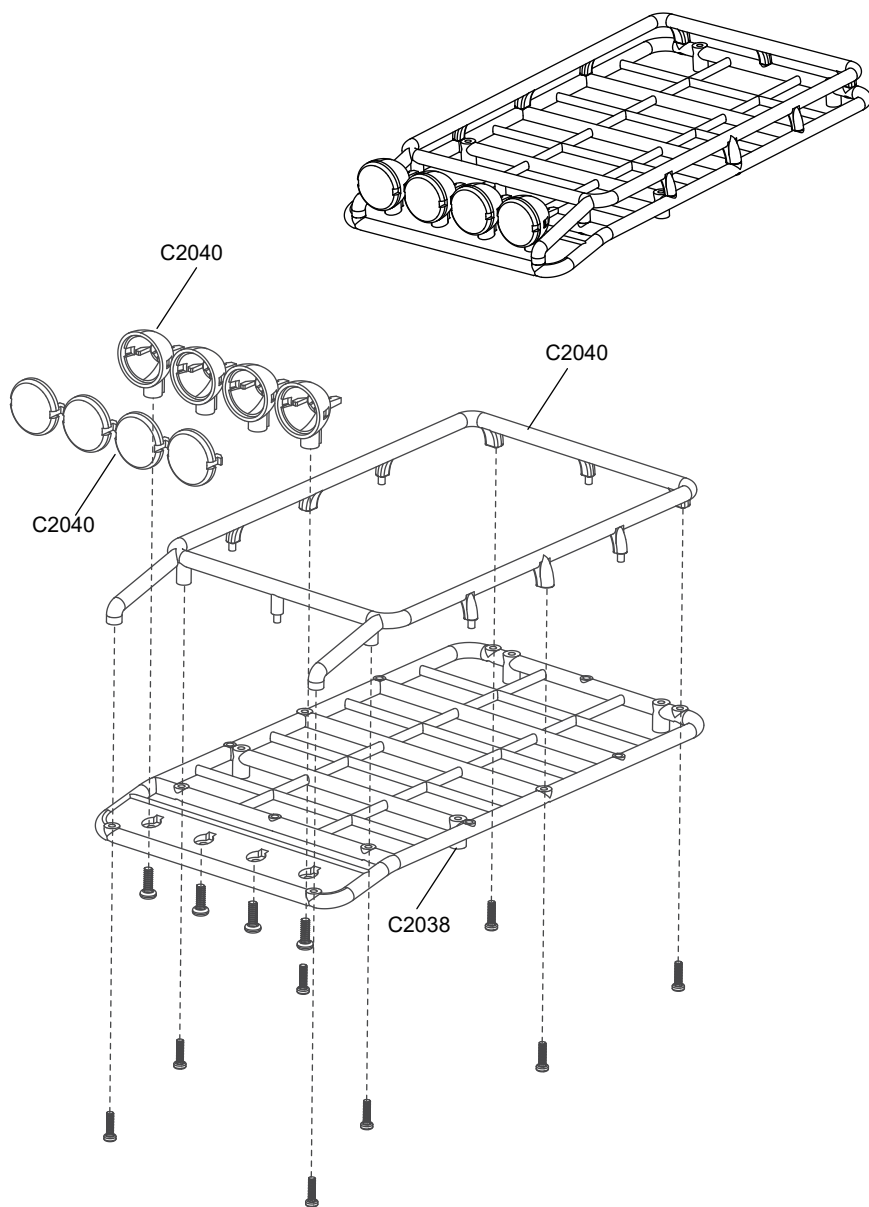






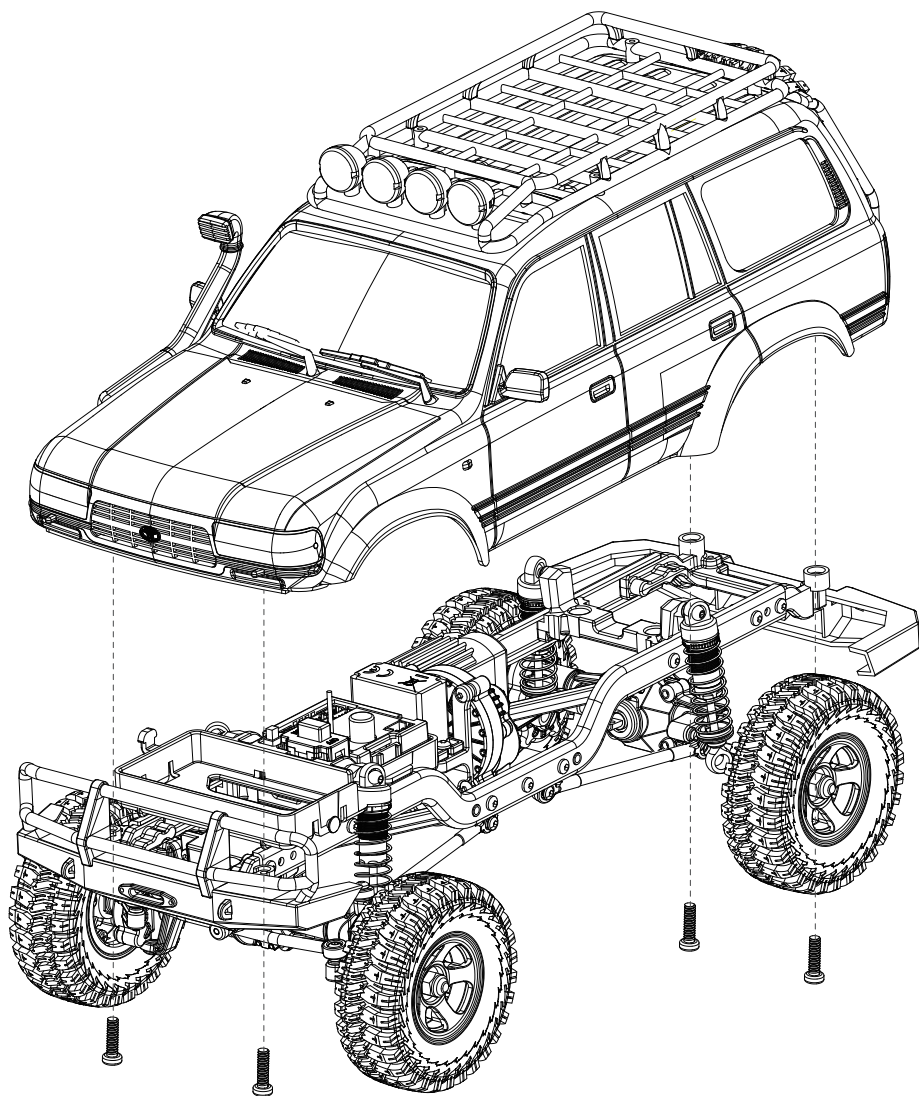






EN:VEHICLE COMPLETE SET

CN:整车组



**Foshan Zhengze Model Technology Co., Ltd.**

Tel:+86-0757-26330080

E-mail:support@fmsmodel.com

Add: Unit A, Building 6, Jicheng Science and Technology  
Innovation Park,Shunde, Foshan City, Guangdong  
Province, 528306



**佛山市正泽模型科技有限公司**

电话:86-0757-26330080

邮箱:support@fmsmodel.com

地址及电话:广东省佛山市顺德区北滘镇顺江  
社区三乐东路25号集成科创园 6栋

MADE IN CHINA

