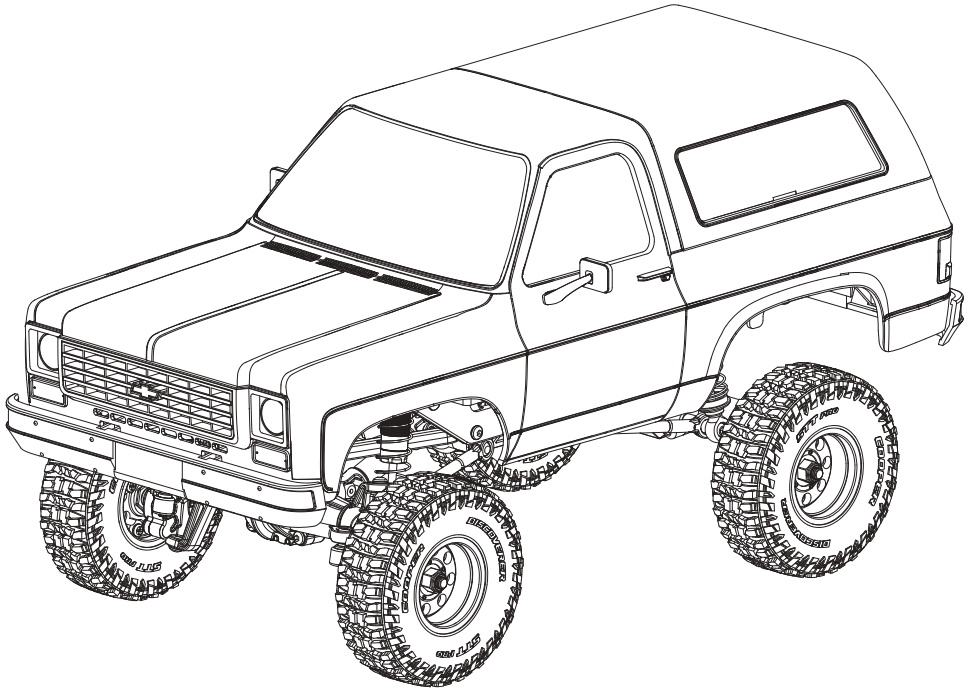




# 1:24 FCX24 K5 BLAZER PRO



**FCX24**  
**BRUSHLESS**

MAN-G0284

*Instruction Manual*  
操作手册

**Disclaimer and Warning 免责声明与警告**

Thank you for purchasing our product. This product is composed of precision components and is not a toy. It is not suitable for use by individuals under the age of 14. Please do not allow children to come into contact with this product. Exercise extra caution when operating this product in the presence of children. This product is a remote-controlled model and will provide a smooth and easy operating experience when the power is functioning correctly, and all components are undamaged. Visit [www.fmshobby.com](http://www.fmshobby.com) to access the latest product manual and related supplementary instructions and warnings. We reserve the right to update this manual. If there are updates to this manual, they will not be notified separately.

Before using the product, please carefully read this product manual to understand your legal rights, responsibilities, and safety instructions. Failure to do so may result in property damage, safety incidents, and personal safety risks. Once you use this product, it is considered that you have understood, accepted, and agreed to all the terms and content of this manual. Users are responsible for their actions and all consequences arising from them. Users commit to using this product only for legitimate purposes and agree to all the terms and content in this manual as well as any relevant policies or guidelines that our company may establish. Our company and distributors are not liable for any losses caused by users not following the product manual. In compliance with laws and regulations, our company reserves the final interpretation of this manual. Our company has the right to update, revise, or terminate these terms without prior notice.

This manual is intended to assist you in correctly operating, maintaining, and repairing the vehicle. Since most of the components involved in this product are unique parts, please keep this manual for future reference.

感谢您购买我们的产品。本产品由精密部件组成，并非玩具，因此不适合 14 岁以下的人士使用。请勿让儿童接触本产品。在有儿童出现的场景操作时请务必特别小心注意。本产品是一款遥控模型产品，在电源正常工作及各部件未损坏的情况下将提供轻松自如的操作体验。请访问以下网址[www.fmshobby.com](http://www.fmshobby.com)获取最新的产品手册及相关附加说明与警告。我司保留更新本手册的权力。本手册如有更新，恕不另行通知。

请务必在使用产品之前仔细阅读本产品手册，了解您的合法权益、责任和安全说明，否则，可能带来财产损失、安全事故和人身安全隐患。一旦使用本产品，即视为您已理解、认可和接受本手册全部条款和内容。使用者承诺对自己的行为及因此而产生的所有后果负责。使用者承诺仅出于正当目的使用本产品，并且同意本手册内的全部条款和内容及我司可能制定的任何相关政策或者准则。我司及分销商不承担因用户未按产品手册使用产品所引发的一切损失。在遵从法律法规的情况下，我司享有对本手册的最终解释权。我司有权在不事先通知的情况下，对本条款进行更新改版或终止。

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。

**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.

## Safety Precautions

## 安全保障措施

- 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负全权负责。
- 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。

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。

### 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严重受伤，甚至遭受生命危险。



**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.**  
如果使用者不按照说明方法操作，可能导致操作者或他人轻微伤害。

### 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.

• 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话活跃的地方
- 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。

**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.

EU DoC Declaration

Hereby, [Flysky Technology co, ltd] declares that the Radio Equipment FS-R4P-BS) is in compliance with RED 2014/53/EU

The full text of the EU DoC is available at the following internet address: [www.flyskytch.com/info/detail/10.html](http://www.flyskytch.com/info/detail/10.html)

**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

**Product Introduction 产品简介****Background 产品背景**

Every automaker has several incredible and legendary models. In the SUV segment, Ford has the Mustang and Jeep has the CJ. For GM, that car is the K5 BLAZER.

In 1969, Chevrolet's first-generation K5 Blazer came out. It was the representative of the famous Chevrolet C/K series and was the most compact full-size SUV on the market at the time. The vehicle is positioned as a full-size sport utility vehicle and is also GM's smallest full-size SUV. It combines Scout's excellent off-road capability with an automatic transmission, which reduces the difficulty of operation and enhances the pleasure of operation. Even people without off-road driving experience can easily drive this car. More people can experience the joy of adventure and long-distance travel to unknown destinations. In addition, it is also the first to carry on-board air conditioning, a "luxury" feature that was especially popular among young people. By 1970, the Blazer was outselling every one of its competitors.

In terms of appearance, the Chevrolet K5 Blazer has incredibly obvious American pickup characteristics. Only a four-wheel drive version was initially available, equipped with 250ci, 292ci inline six-cylinder engines (4.1L, 4.8L) or 307ci, 350ci V8 engines (5.0L, 5.7L), respectively matching three-speed manual transmission, four-speed manual transmission, and three-speed automatic transmission, according to the engine displacement.

In 23 years of production, the Chevrolet K5 Blazer has continued to evolve and has remained one of the most popular 4x4 utility trucks in America.

## Product Introduction 产品简介

每一家汽车制造商都有几款令人难以置信的传奇车型。在越野车领域福特有野马，吉普有CJ。对通用汽车来说，这辆车就是K5 BLAZER开拓者。

1969年，雪佛兰第一代K5 Blazer问世，它是著名的雪佛兰C/K系列的代表，是当时市场上最紧凑的全尺寸SUV。这款车定位为全尺寸运动型多功能车，同时也是通用汽车最小的全尺寸SUV。此外它将Scout出色的越野能力与自动变速器结合，降低了操作难度，提升了操作乐趣。即便是没有野外驾驶经验的人，也能轻松驾驶这台车。更多人可以体会探险、去未知的目的地做长途旅行的乐趣。此外它还率先搭载了车载空调，这个“豪华”功能，尤其受到年轻人的喜爱。到了1970年，Blazer的销量超过了每一个竞争对手。

外观方面雪佛兰K5 Blazer有着非常明显的美式皮卡特征。最初仅提供四驱版本，搭载250ci、292ci 直列六缸（4.1L、4.8L）发动机，或307ci、350ci V8（5.0L、5.7L）发动机，根据发动机排量不同，分别匹配三速手动、四速手动以及三速自动变速箱。

在23年的生产过程中，雪佛兰K5 Blazer不断推陈出新，一直是美国最受欢迎的4x4通用卡车之一。

### About Model 产品介绍

Eighteen years of spring and fall, eighteen years of vicissitudes of life, eighteen years of growth and development, worthy of pride and honor.

The 18th Anniversary limited edition paint job from FMS is officially matched to the CHEVROLET K5 BLAZER, a simulated model car licensed from Chevrolet Motors, where we retained the plated grille, front and rear bumpers, in addition to a rear roof canopy and roll cage (with overhead lights) - removing the rear roof restores the short-wheelbase pickup truck form, switching between SUV and pickup truck at will; staticizing it in an extremely limited space. The short wheelbase pickup truck form can be switched between SUV and pickup truck at any time; its static and dynamic values are maximized in the extremely limited space.

The chassis adopts FCX24 chassis, besides retaining the two-speed mechanical transmission on the basis of the original K5 BLAZER, the FMS 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, and at the same time, the outer rotor structure has its own good dynamic balancing characteristics, and the noise and vibration level can be further reduced. 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 door axle is another major feature of the FCX24. The chassis improves the minimum ground clearance through the door axle, so it has off-road passing performance that far exceeds that of products of the same size, and this advantage is especially obvious when climbing extreme obstacles at low speeds.

At present, the FCX24 chassis has a variety of upgraded parts such as metal differentials, metal universal joint drive shafts, brass wheel weights and other upgraded parts on the market. These parts not only further enhance the vehicle performance, but also provide a variety of personalized options, with the sole purpose of hoping every player to have fun. Looking forward to your sharing.

十八载春华秋实，十八年沧桑岁月，十八年的成长与发展，值得自豪与骄傲。

FMS 出品的18周年限定款涂装正式搭配在由雪佛兰汽车公司授权的仿真模型车CHEVROLET K5 BLAZER上，我们保留了电镀格栅、前后保险杠，以外还配备了后排车顶篷和防滚架（含顶灯）——拆掉后排车顶，即恢复短轴距皮卡形态，SUV和皮卡任意切换；在极为有限的空间里将其静态和动态的价值发挥到极致。

底盘采用FCX24底盘，除了在原来K5 BLAZER的基础上，保留两档机械变速之外，FMS首次搭载1212外转子无刷电机，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。

门桥是FCX24的另一大特色，底盘通过门桥提升了最小离地间隙，因此拥有远超同尺寸产品的越野通过性能，这一优势在低速攀爬极限障碍时尤其明显。

目前配合FCX24底盘已经有金属差速器、金属万向节传动轴、黄铜轮毂配重等多款升级改装零件上市。这些零件除了进一步提升车辆性能外，还提供多种个性化的选择，目的只有一个，就是希望每一位玩家玩得尽兴。期待你们的分享。

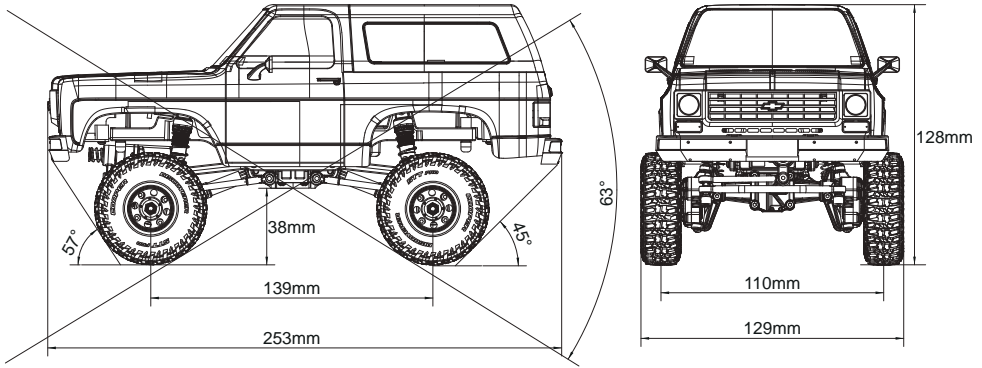
## Features 特点

- FMS 18th Anniversary limited edition painted simulation car body
- External rotor brushless motor
- Full ball bearings
- Metal tie rods, metal straight axle teeth, metal gearbox teeth
- Completed assembly
- Micro two-speed mechanical transmission
- Remote control light system
- Portal axle (metal gears)
- Steering servo with metal teeth
- 4-link suspension
- High-strength mixed-fiber nylon unibody frame
- Quick release structure
- Front grille, front bumper, and luggage rack lights are available as optional extras.

- FMS 18 周年限量款涂装仿真车壳
- 外转子无刷电机
- 全车滚珠轴承
- 金属拉杆、金属直桥齿、金属变速箱齿
- 组装完成品
- 微型两档机械变速
- 遥控灯光系统
- 门式车桥（金属齿轮）
- 金属齿转向舵机
- 4连杆悬挂
- 高强度混纤尼龙一体成型车架
- 车壳快拆结构
- 前格栅、前防撞、行李架灯多款可选配改装件



Specification 产品参数



- Length:253mm
- Width:129mm
- Height:128mm
- Wheelbase:139mm
- Tire F/R :Φ 54.8\*19.5mm
- Minimum Ground Clearance: 38mm
- Approach Angle: 57°

- Departure Angle: 45°
- Motor: 1212 brushless motor 3200KV
- Battery : 2S Lipo 7.4V 380mAh
- Remote control distance: 30m
- Approx. operating duration time: 30mins
- Remote control:MG44 + R4P1 transmitter receiver set bs version

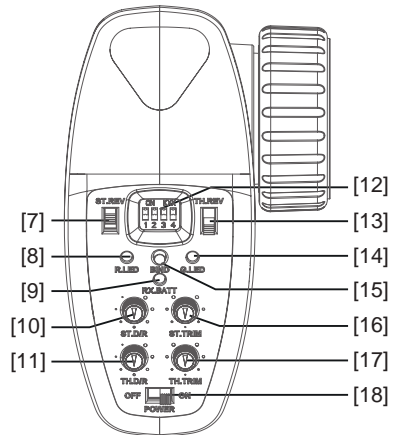
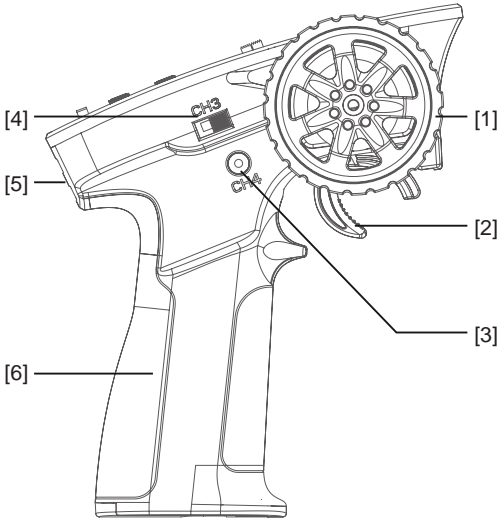
- 车长:253mm
- 车宽: 129mm
- 车高: 128mm
- 轴距: 139mm
- 轮胎: Φ 54.8\*19.5mm
- 离地间隙: 38mm
- 接近角: 57°

- 离去角: 45°
- 电机: 1212外转无刷电机 3200KV
- 电池: 2S Lipo 7.4V 380mAh
- 遥控距离: 30m
- 续航: 30mins
- 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，可通过发射机设置电调参数。该款发射机还具备初学者模式方便入门玩家使用。



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

**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** Only use specified battery (X4 AAA batteries).  
**危险** 仅使用厂家指定的电池。

**Danger** Do not open, disassemble, or attempt to repair the battery.  
**危险** 请勿打开、拆卸或自行维修电池。

**Danger** Do not crush/puncture the battery, or short the external contacts.  
**危险** 请勿挤压、刺穿或接触电池的金属端子。

**Danger** Do not expose to excessive heat or liquids.  
**危险** 请勿将电池置于高温环境或液体中。

**Danger** Do not drop the battery or expose to strong shocks or vibrations.  
**危险** 请注意防止电池跌落、碰撞或振动。

**Danger** Always store the battery in a cool, dry place.  
**危险** 请将电池存放在干燥阴凉的环境中。

**Danger** Do not use the battery if damaged.  
**危险** 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)

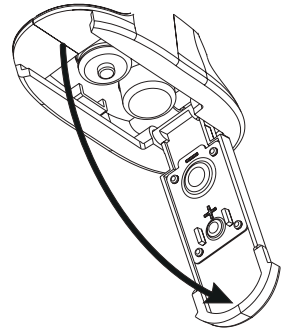
电池类型使用：AAA 电池

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 指示灯一闪一灭
  - 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 指示灯不亮, 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	Life time : According to Battery Type
Channels : 4	Low Voltage Warning : <4.2V
Model Type : Car or Boat	Antenna Type : Single Built-in Antenna
RF : 2.4GHz ISM	Data Interface : None
Maximum Power : <20dBm (e.i.r.p.) (EU)	Temperature Range : -10 C ~ +60 C
2.4GHz Protocol : 2A-BS	Humidity Range : 20% ~ 95%
Resolution : 1024	Online Update : None
Input Power : 6V/DC or 1.5AAA*4	Dimensions : 118*73*145mm
Charging Interface : None	Weight : 130g
Distance : >150m(Ground distance without interference)	Certifications : CE, FCC ID: N4ZMG400, MIC:R210-167762, IC: 25584-MG4BS00

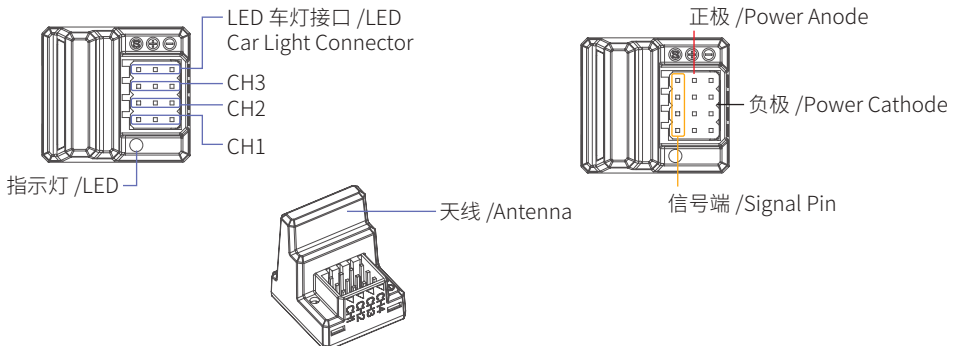
产品型号 : FS-MG44-BS	续航时间 : 依电池类型
通道个数 : 4	低电压报警 : < 4.2V
适配模型 : 车、船	天线类型 : 内置单天线
无线频率 : 2.4GHz ISM	数据接口 : 无
发射功率 : <20dBm	温度范围 : -10°C ~ +60°C
无线协议 : 2A-BS	湿度范围 : 20% ~ 95%
通道分辨率 : 1024 级	在线更新 : 无
输入电源 : 6V DC 1.5AAA*4	外形尺寸 : 118mm*73mm*145mm
充电接口 : 无	机身重量 : 130g
遥控距离 : >150m (空旷无干扰地面距离)	认证 : CE, FCC ID:N4ZMG400, MIC:R210-167762, IC:25584-MG4BS00

# Receiver Overview 接收机概览

## Introduction 产品介绍

FS-FMS-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-FMS-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

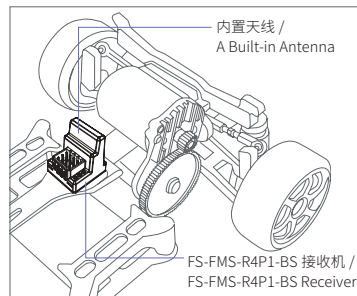
Product Model: FS-FMS-R4P1-BS	Number of Car Light Connectors: 6 (DB01 Car light control board connects to the LED car light connector)
Compatible Transmitters: FS-FMS-G4P-BS, FS-FMS-MG4-BS, FS-FMS-MG6-BS	Data Output: PWM
Compatible Model: Cars	Temperature Range: -10°C ~ +60°C
Number of PWM Channels: 3	Humidity Range: 20% ~ 95%
RF: 2.4GHz ISM	Waterproof: PPX4
RF Protocol: 2A-BS	Online Update: None
Antenna: One built-in antenna	Dimensions: 22.6*20.6*25.5mm
Distance: More than 150m (Ground distance without interference)	Weight: 6g
Operating Voltage: 3.5 ~ 8.4V/DC	Certifications: CE, FCC

产品型号: FS-FMS-R4P1-BS	工作电压: 3.5 ~ 8.4V/DC
适配发射机: FS-FMS-G4P-BS、FS-FMS-MG4-BS、 FS-FMS-MG6-BS	数据输出: PWM
适配模型: 车	温度范围: -10°C ~ +60°C
PWM 通道数: 3	湿度范围: 20% ~ 95%
无线频率: 2.4GHz ISM	防水等级: PPX4
无线协议: 2A-BS	在线更新: 无
天线类型: 内置单天线	外形尺寸: 22.6*20.6*25.5mm
遥控距离: > 150 米 (空旷无干扰地面距离)	机身重量: 6g
车灯组数: 6 (LED 车灯接口连接 DB01 车灯驱动板)	• 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 it will automatically enter the binding state if it 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.

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。

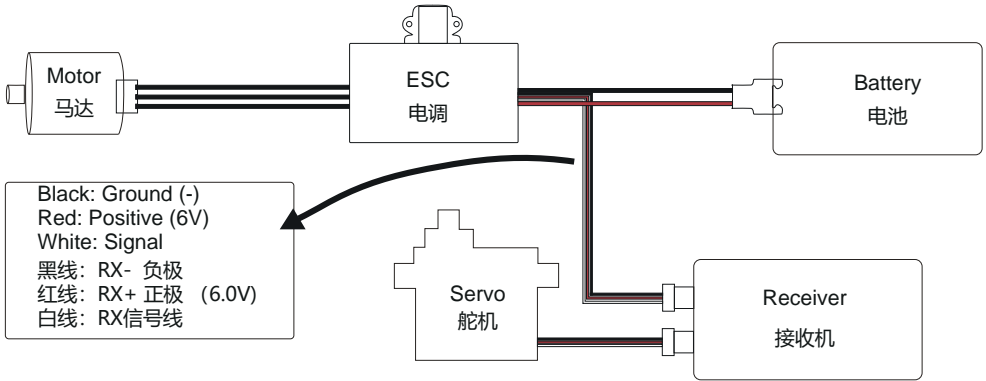
## Features 主要特性

- 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.
  - The ESC firmware can be upgraded by Bluetooth Module.
- 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。
  - 5.可通过蓝牙升级电调固件。

## Specification 产品规格

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

## 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, 8, #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。	<ol style="list-style-type: none"> <li>1. Some soldering between the motor and the ESC was not good.</li> <li>2. The ESC was damaged (some MOSFETs were burnt).</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all soldering points, please re-solder if necessary</li> <li>2. Contact the distributor for repair or other customer services.</li> </ol>
电机抖动，无法启动。	<ol style="list-style-type: none"> <li>1、电调和电机连接的插头有虚焊。</li> <li>2、电调故障(部分功率管MOSFET烧坏)。</li> </ol>	<ol style="list-style-type: none"> <li>1、检查各焊接点，必要时重新焊接。</li> <li>2、联系经销商处理维修事宜。</li> </ol>
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。	<ol style="list-style-type: none"> <li>1. The neutral position on the transmitter was not stable, so signals were not stable either.</li> <li>2. The ESC calibration was not proper.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace your transmitter</li> <li>2. Re-calibrate the throttle range or fine tune the neutral position on the transmitter.</li> </ol>
油门在中点时，车子缓慢前进或缓慢后退。	<ol style="list-style-type: none"> <li>1、遥控器中位有漂移，导致信号不稳。</li> <li>2、油门行程没校准好。</li> </ol>	<ol style="list-style-type: none"> <li>1、更换信号稳定的遥控器</li> <li>2、重新校准油门行程。</li> </ol>

## 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°C.

#### 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 380mAh

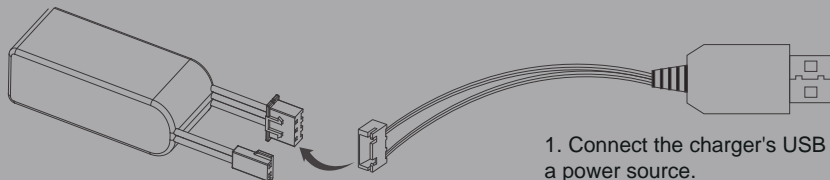
Charger: USB balance charger, charging time 30-45 minutes.

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 380mAh

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 source.
1. 将USB充电器端口连接到电源。

## Connecting the battery 连接电池

Step 1: With the bottom of the vehicle facing up, release the four buckles (opened inward) indicated by the arrows to separate the car shell from the chassis.

Step 2: Place the battery in the battery compartment on the frame and fix it with the attached silicone rubber band. Connect the battery plug to the female end of receiver/ESC (2-in-1) unit.

Step 3: Lock the four buckles to fix the car shell in place.

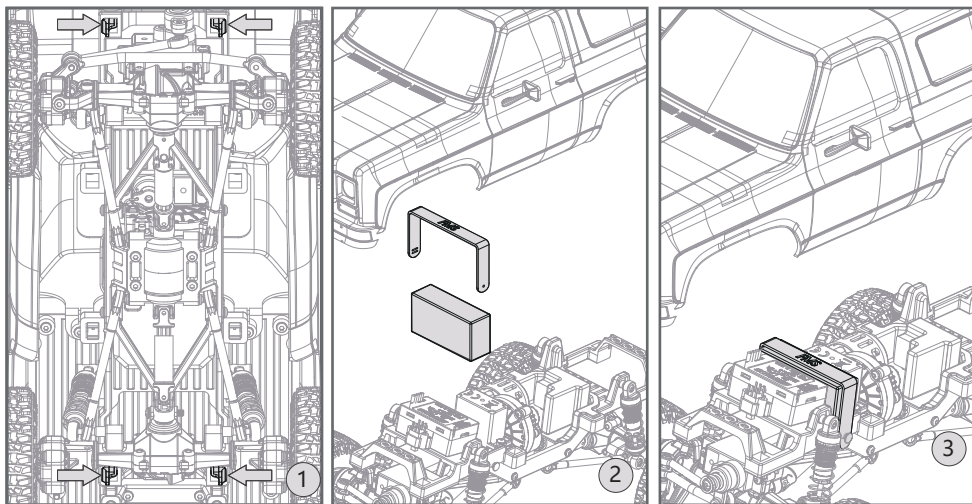
Caution: Do not crush or damage the wiring when attaching the car shell to the chassis.

步骤1: 如图所示, 翻转模型车使之底部朝上, 将箭头所示的四个卡扣分别向内掰打开, 分离车壳和车架。

步骤2: 在图示电池舱位置放入电池, 并使用所附硅胶轧带固定。连接电池插头至接收机/电调二合一装置的母头。

步骤3: 锁紧卡扣固定车壳。

注意: 锁紧车壳时切勿挤压电线。



### NOTE

1. If it is not in use for a long time, unplug and take off the battery to prevent battery leakage.
2. Do not open, disassemble, or attempt to repair the battery.
3. The battery needs to be disconnected from vehicle before it can be charged
4. Do not charge battery in vehicle.

### 注意:

- 1、如果长时间不用, 请拨下电池, 以防电池损坏。
- 2、不要打开、拆解或试图维修电池。
- 3、在给电池充电之前, 需要先断开电池与车辆的连接。
- 4、请勿在车内给电池充电。



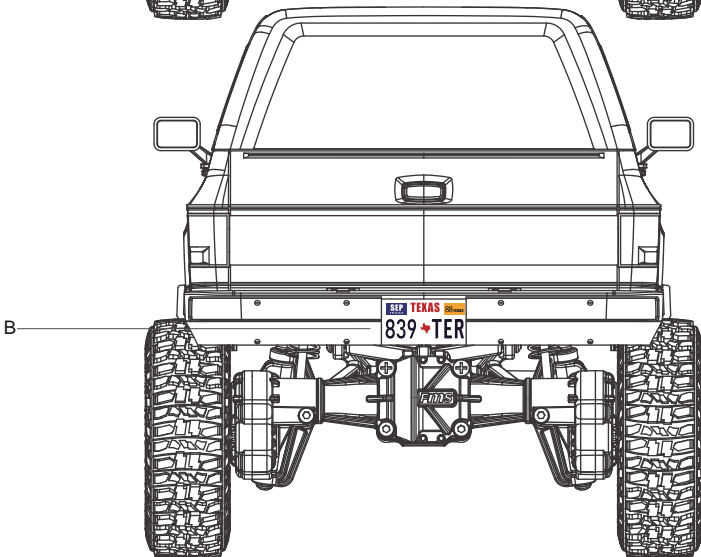
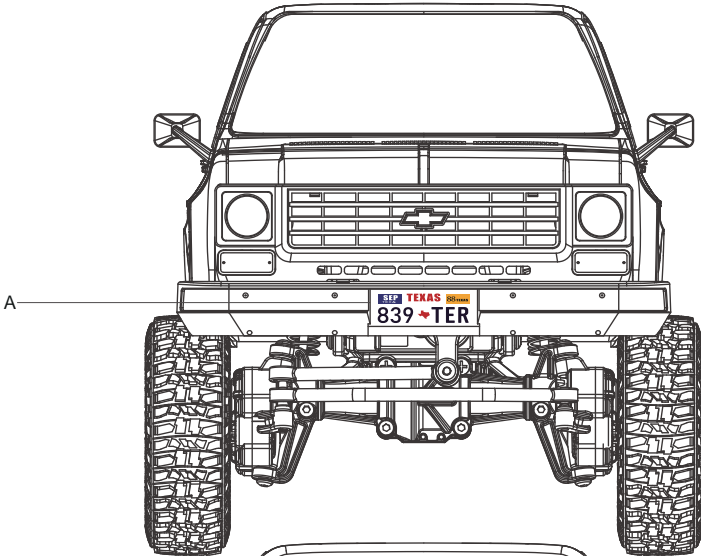
## Battery Precautions 电池注意事项

- Never charge a lithium polymer battery with a charger designed for Nicd, NIMH, or any other type of battery chemistry. Use ONLY charger designed for LiPo battery.
  - Do not leave LiPo battery unattended during charging.
  - Do not overcharge the battery.
  - Always charge LiPo batteries on non-flammable, heat-resistant surfaces.
  - Always use a LiPo-safe bag or container while charging. Do not allow LiPo cells to overheat at any time. Cells which reach greater than 140 Fahrenheit(60 C) will usually become damaged and will catch fire.
  - Do not charge the LiPo pack while it is still in the model. Never charge or store battery packs in a vehicle.
  - Do not discharge LiPo, doing so will damage the battery.
  - Do not expose LiPo cell to water or moisture at any time.
  - Do not store battery near open flame or heater.
  - Do not assemble LiPo cells or pre-assembled packs together with other LiPo cells or packs.
  - Always store LiPo battery in a secure location away from children.
  - Always remove the LiPo battery if model is involved in any kind of crash.
  - Carefully inspect the battery and connectors for even the smallest damage.
  - CAUTION: Cells may become hot after usage. Allow the pack to cool to room temperature prior to recharging.
  - Do not allow the electrolyte to get into eyes or on skin. Wash affected areas immediately if they come into contact with electrolyte.
  - Do not alter or modify connectors or wires of a LiPo battery pack.
  - Always inspect the condition of the battery before charging and operating.
  - Do not short circuit the LiPo battery.
  - Do not have contact with a leaky/damaged battery directly.
  - Do not charge battery out of recommended temperature range(0 C -45 C).
- 
- 不要使用Nicd、NIMH或任何其他类型的充电器给LIPO锂聚合物电池充电。请使用LIPO锂聚合物的专用充电器给LIPO锂聚合物电池充电。
  - 请勿在无人看管的情况下充电。
  - 电池请勿过充。
  - 请勿将电池放置在易燃、不耐热的表面上充电。
  - 总是使用安全袋或安全容器给电池充电。保证电池在任何时候都不过热。电池温度超过140华氏度（60°C）则易造成损坏，甚至引发火灾。
  - 请勿将电池长期置于模型产品内，更勿在模型产品内直接充电。
  - 请勿给电池放电，以免损坏电池。
  - 任何时候请勿将电池暴露在水或湿气之中。
  - 请勿在明火或加热器附近储放电池。
  - 请勿与其他未组装或预组装的电池混用。
  - 需将电池存放在远离儿童的安全位置。
  - 模型如出现任何碰撞，需立刻拆除电池。
  - 即使出现微小的损坏，也需仔细检查电池和连接器。
  - 注意：使用后电池可能会发热，需让电池冷却到室温后再进行充电。
  - 请勿让电解液接触眼睛或皮肤。如电解液不慎接触到身体的任何部位，请立即进行清洗。
  - 请勿替换或修改电池组的连接器或电线。
  - 在进行充电或其他任何操作之前需检查电池的状况。
  - 请勿造成电池短路。
  - 请勿直接接触已泄漏或已损坏的电池。
  - 请勿超出建议温度范围充电电池（0度-45度）。

# Decal Application 贴纸应用

Please choose one set of the decals according to your taste or history materials and paste it as shown (for reference only).

请参考历史资料或依据个人偏好，在以下贴纸中选出一套，按照所列的步骤粘贴。（贴纸涂装仅供参考，玩家可自行DIY）



## Spare Parts List 配件列表

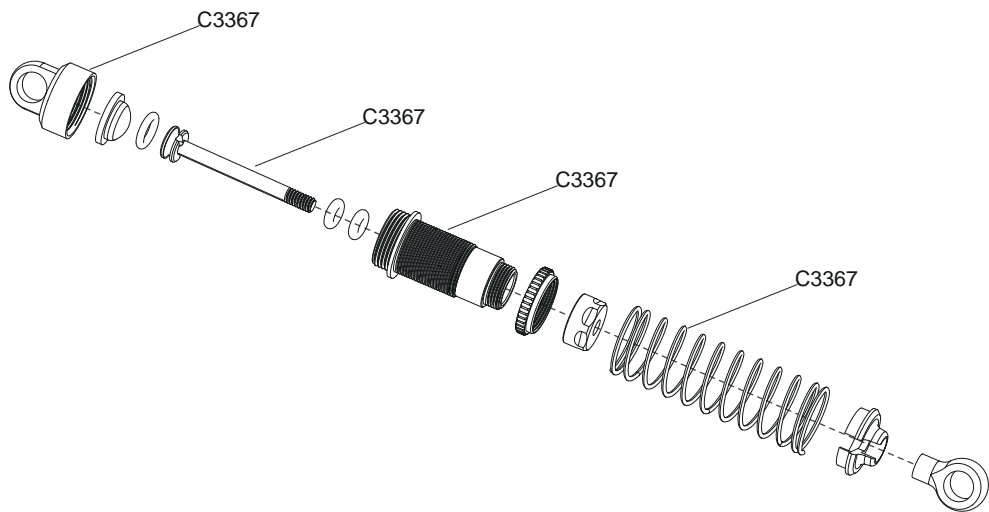
C3029	Servo horn set	摇臂套装(黑色)
C3084	Tire	轮胎
C3085	Front bumper	前防撞
C3086	Rear bumper	后防撞
C3087	Oil shock absorbers assembly	避震器
C3088	Car body and canvas top w/o painted	车壳 + 车顶棚 素材
C3089	Car body and canvas top painted (white / orange)	车壳+ 车顶棚 预喷漆白/橙
C3090	Car body and canvas top painted (black)	车壳+ 车顶棚 预喷漆黑
C3113	Car body and canvas top painted (brown / yellow)	车壳+ 车顶棚 预喷漆棕/黄
C3114	Canvas top w/o painted	车顶棚 素材
C3115	Car body assembly painted (white / orange)	车壳总成 预喷漆白/橙
C3116	Car body assembly painted (black)	车壳总成 预喷漆黑
C3117	Car body assembly painted (brown / yellow)	车壳总成 预喷漆棕/黄
C3091	Windows	窗玻璃
C3092	Lens set	灯片
C3093	Exhaustion plate (black)	面罩 (黑)
C3127	Exhaustion plate (orange)	面罩 (橙)
C3128	Exhaustion plate (brown)	面罩 (棕)
C3094	Car decal sheet	贴纸
C3095	Wheel	轮芯
C3096	Mirror set	后视镜
C3097	Mirror lens	高清镜
C3126	Battery silicon strap	电池硅胶带
C1389F	Lipo battery 2S 7.4v 380mah	电池7.4V 2S 380mAh
C3001	Girder	大梁
C3013	Transmission box shaft	齿轮箱传动轴
C3014	Transmission gear box plastic	传动箱胶件
C3015	Gear set	齿轮
C3016	Steering link set	转向杆
C3018	Axle plastic parts	直桥胶件
C3019	Portal axle cover	门桥胶件
C3020	C hub set	C座套件
C3021	Portal axle set	门桥轴
C3022	Rear wheel shaft set	后轮轴
C3023	Front dog bone set	狗骨
C3025	CVD axle set B	传动轴 B
C3111	servo saver set	转向舵机保护套装
C3027	Servo mount	舵机座
C3028	Rod set	连杆
C3031	Wheel hex adaptor	六角接合件
C3676	1212 brushless motor 3200KV	1212外转无刷电机 3200KV
C3033	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
C3037	Led light set	灯线
C3039	Bearing set	五金轴承
C3059	Portal axle metal gear	门桥金属齿轮
C3063	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
C3081	Shift lever	换挡拉杆
C3098	Exhaustion plate style A (black)	面罩A (黑)
C3099	exhaustion plate style A (orange)	面罩A (橙)

## Spare Parts List 配件列表

C3129	Exhaustion plate style A (brown)	面罩A (棕)
C3191	Exhaustion plate style B (black)	面罩B (黑)
C3192	Exhaustion plate style B (orange)	面罩B (橙)
C3193	Exhaustion plate style B (brown)	面罩B (棕)
C3100	Front bumper style B	前防撞B
C3101	Rooftop rack	行李架
C3102	Roll cage	防滚架
C3103	Spotlight bracket	射灯架
C3104	Brass wheel counterweight 1pair	黄铜轮毂配重
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
C3064	Metal rod set	金属拉杆
C3066	Metal drive gear	金属差速器驱动齿轮
C3069	Metal universal joint drive shaft	金属万向节传动轴
C3073	Aluminum shock absorber	铝合金减震器
C3083	Metal Y shape fornt/rear axle connecting rod	金属八字拉杆
C3110	Aluminum axle	铝合金直桥
C3112	Bevel gear for axle	直桥大伞齿
C2051	USB 2S Lipo charger cable	USB 平衡充电器 7.4V 1000mA
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
C3659	Brushless ESC SL10A2S	无刷电调 SL10A2S
C3276	Spotlight lens	射灯片
C3348	Tire eva wadding	轮胎海绵
C3367	Oil shock absorbers assembly V2	避震总成 V2
C3655	Car boby assembly painted (blue)	车壳总成 预喷漆蓝
C3661	Receiver mount	接收座
C3662	LED wire set	灯线
C3035DB	Steering servo ( dupon connetor)	转向舵机 杜邦插头
C3036DB	Variable speed servo ( dupon connetor)	换档舵机 杜邦插头
C3663	Car boby and canvas top painted (white / blue)	车壳+ 车顶棚 预喷漆白/蓝
C3664	Exhaustion plate (blue)	面罩 (蓝)
C3665	Exhaustion plate style A (blue)	面罩A (蓝)
C3666	Exhaustion plate style B (blue)	面罩B (蓝)
C3667	Metal rod set	金属拉杆
C3677	Transmission gear box assembly	驱动牙箱成品
C3678	Car boby and canvas top painted (white / red)	车壳+ 车顶棚 预喷漆白/红
C3679	Exhaustion plate (red)	面罩 (红)
C3680	Exhaustion plate style A (red)	面罩A (红)
C3681	Exhaustion plate style b (red)	面罩B (红)
C3683	Oil shock absorbers assembly	避震器总成 (一对)
C3682	Car boby assembly painted (red)	车壳总成 预喷漆红
C3684	Pinion gear	电机齿
C3748	Pro front axle assembly	前桥总成
C3749	Pro rear axle assembly	后桥总成
C3750	Brushless system set	无刷系统套装

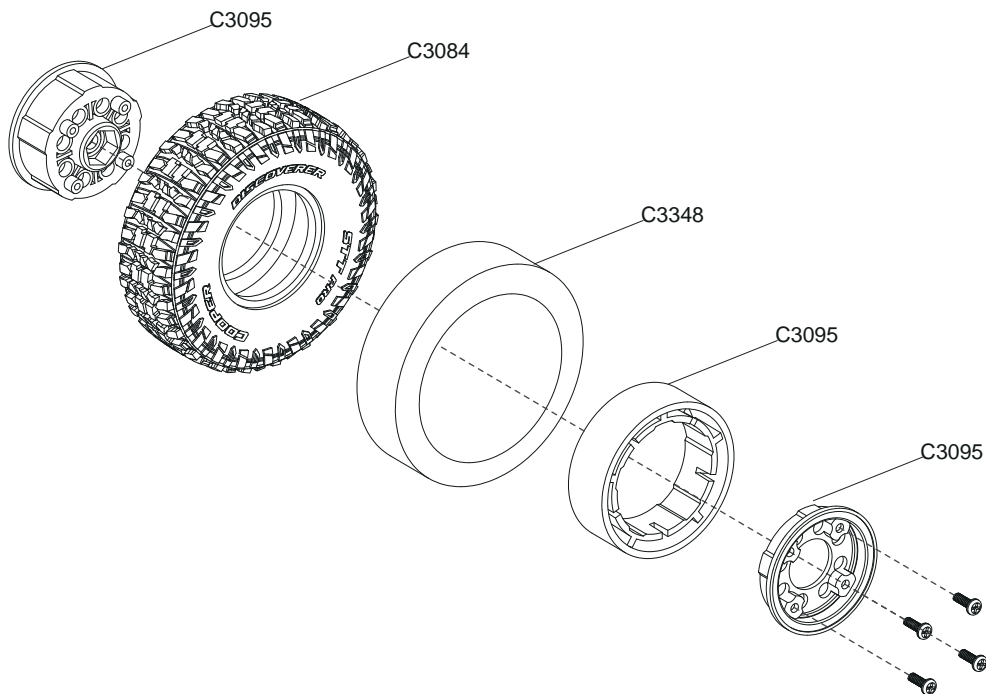
EN:Oil shock absorbers assembly

CN:避震

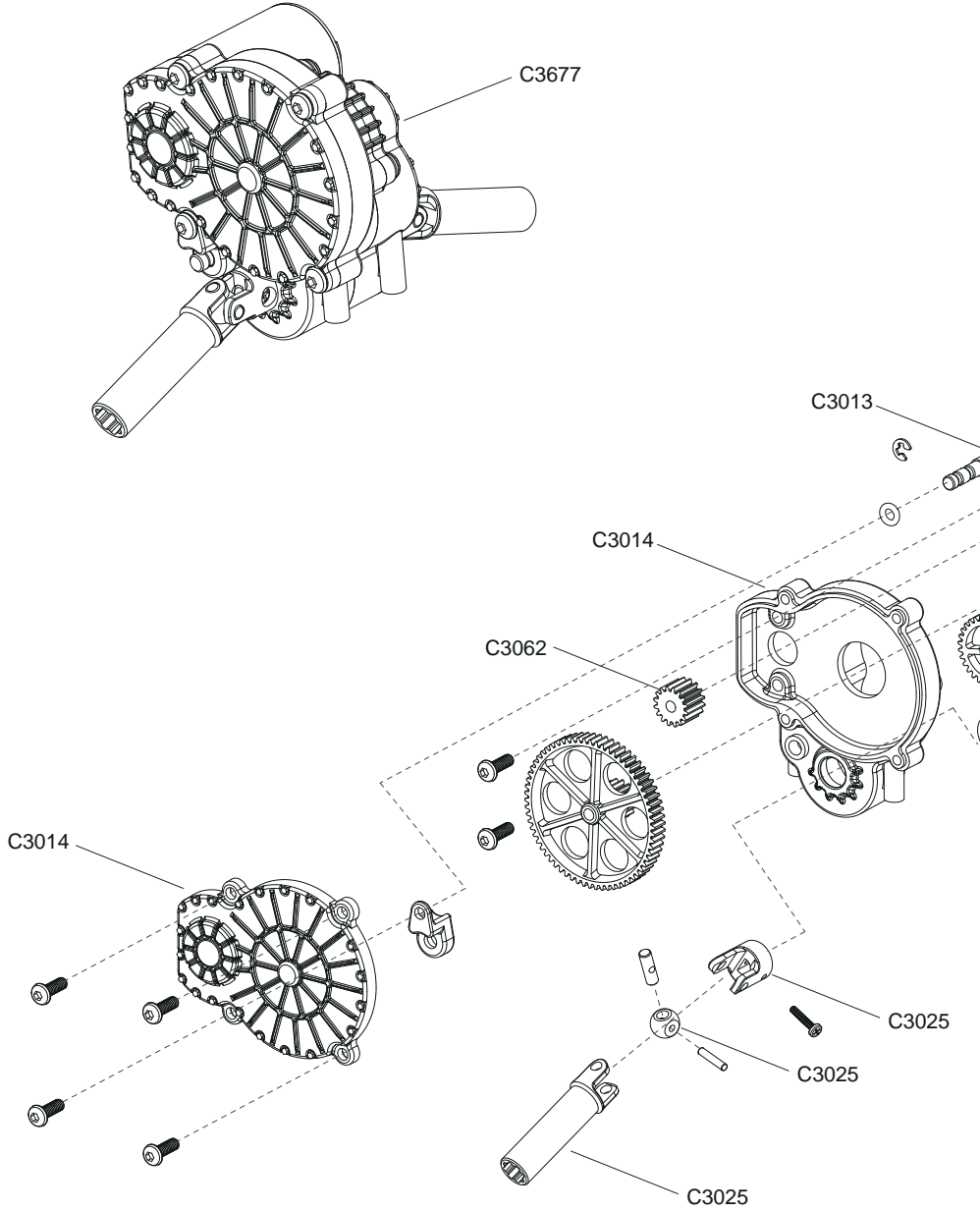


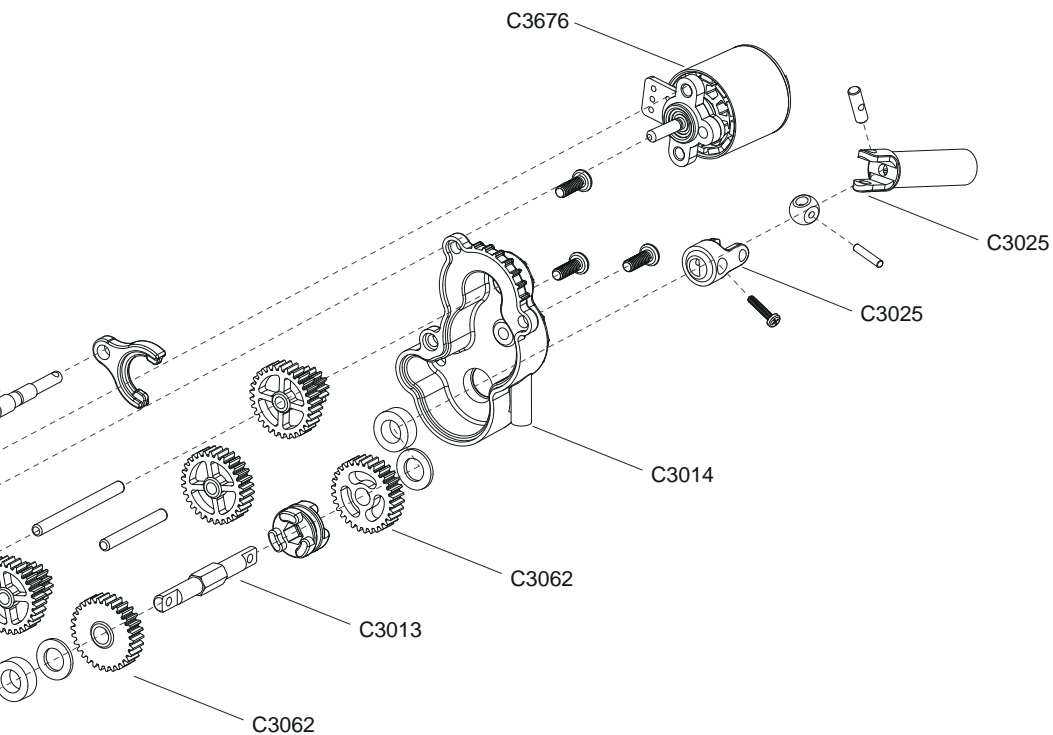
EN:Wheels

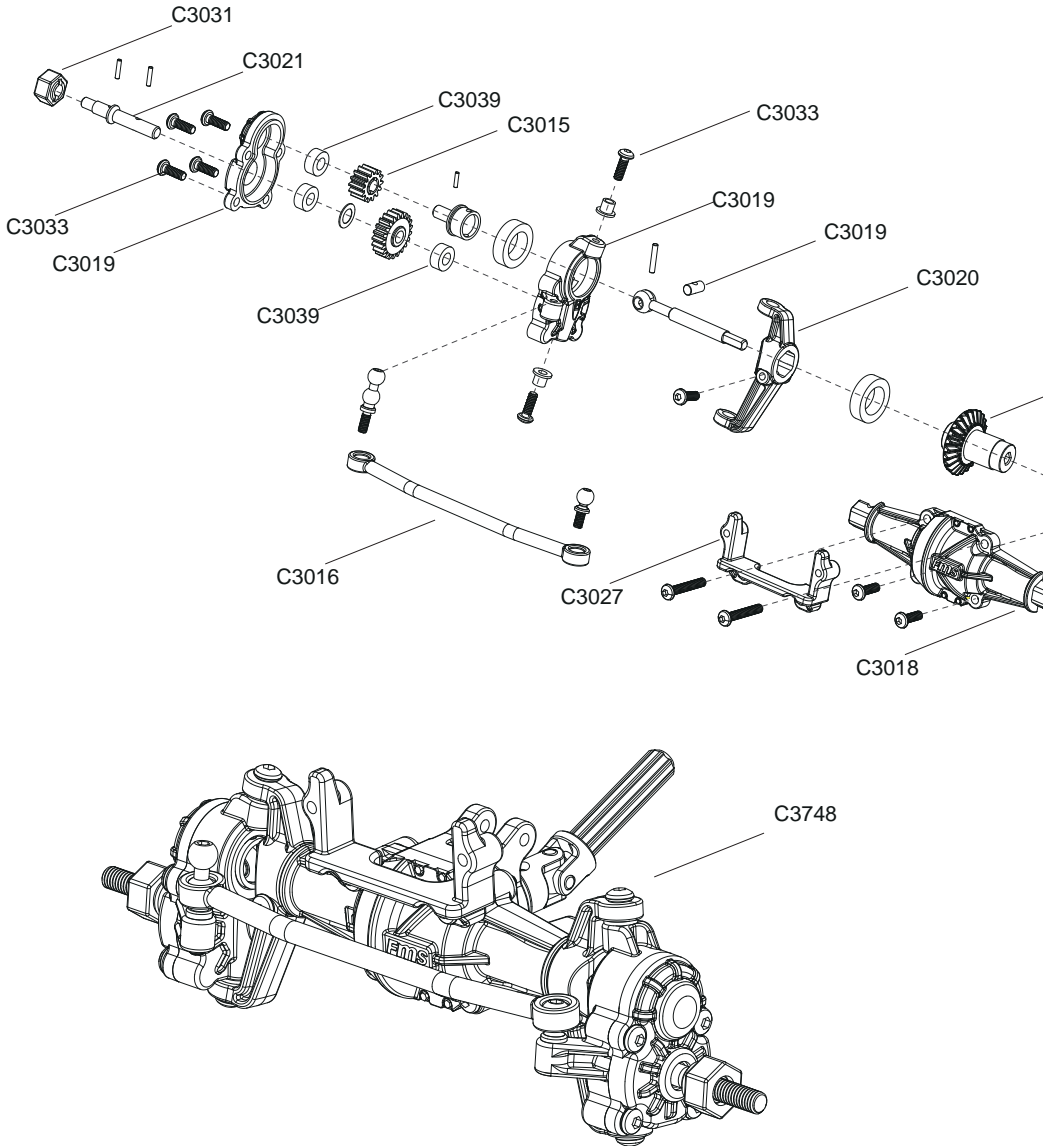
CN:车轮



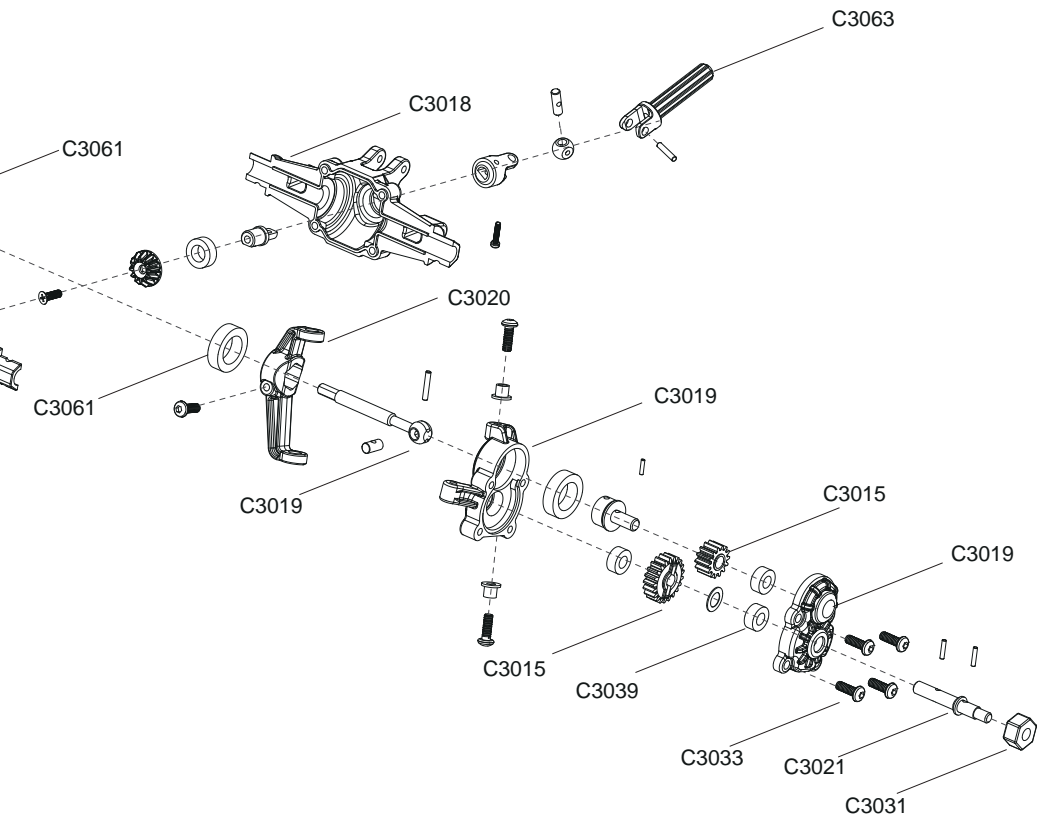
EN:Two speed transmission Installation CN:两档变速箱总成

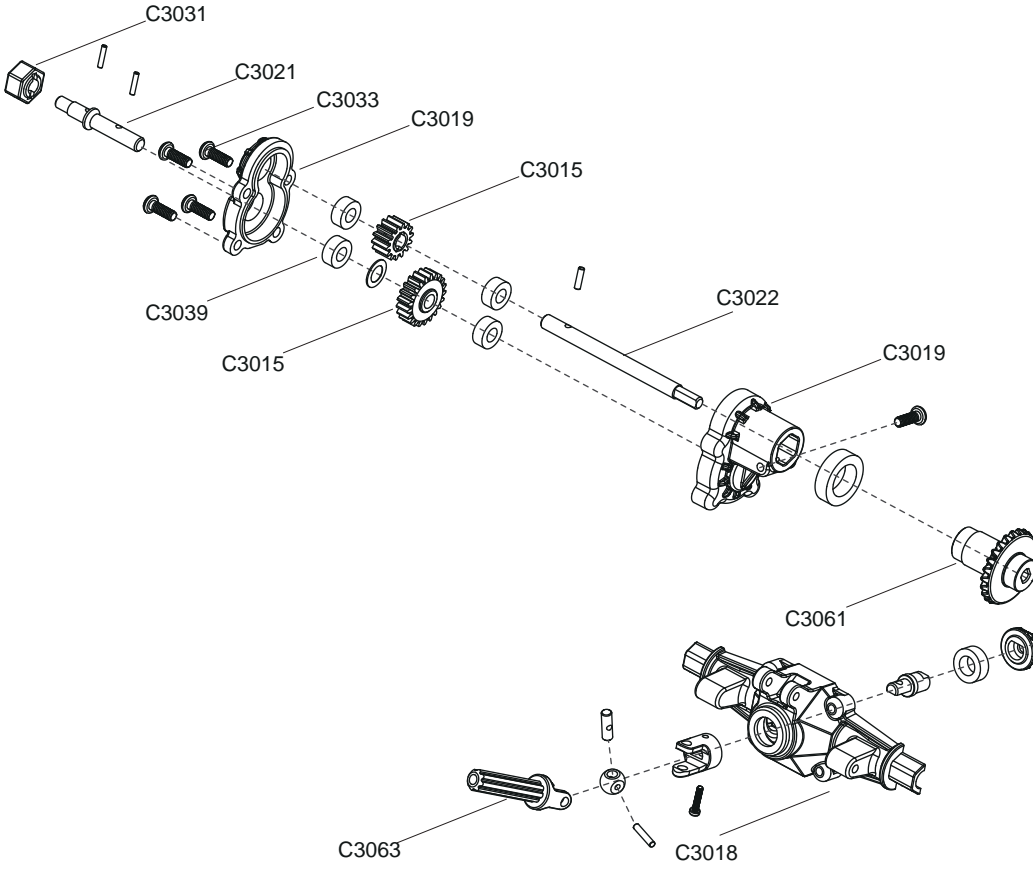


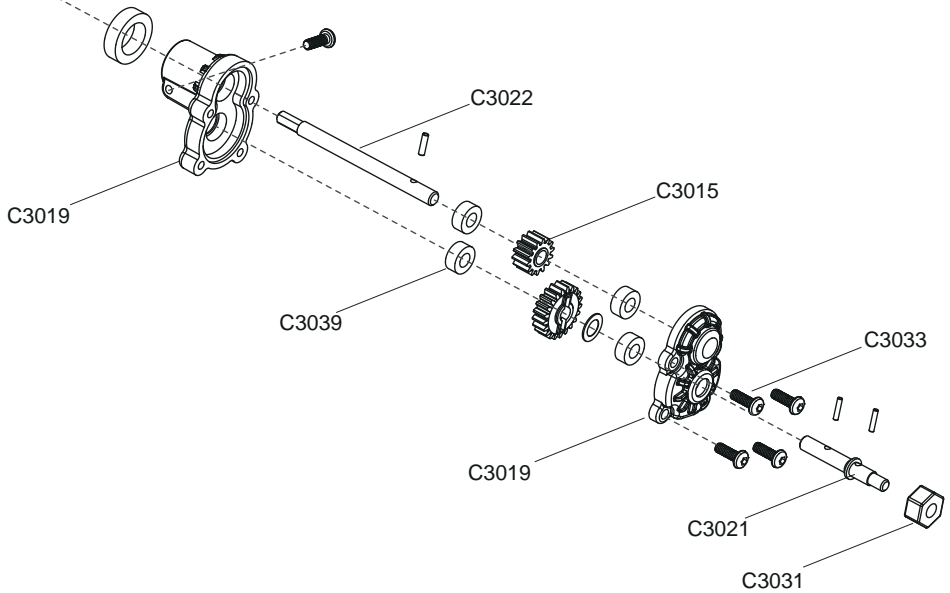
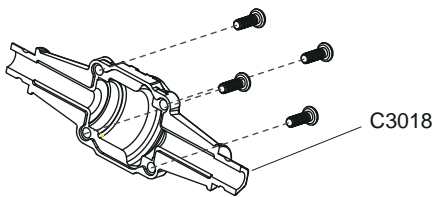
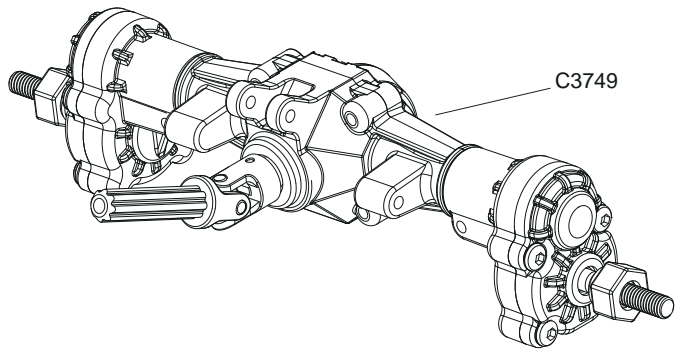


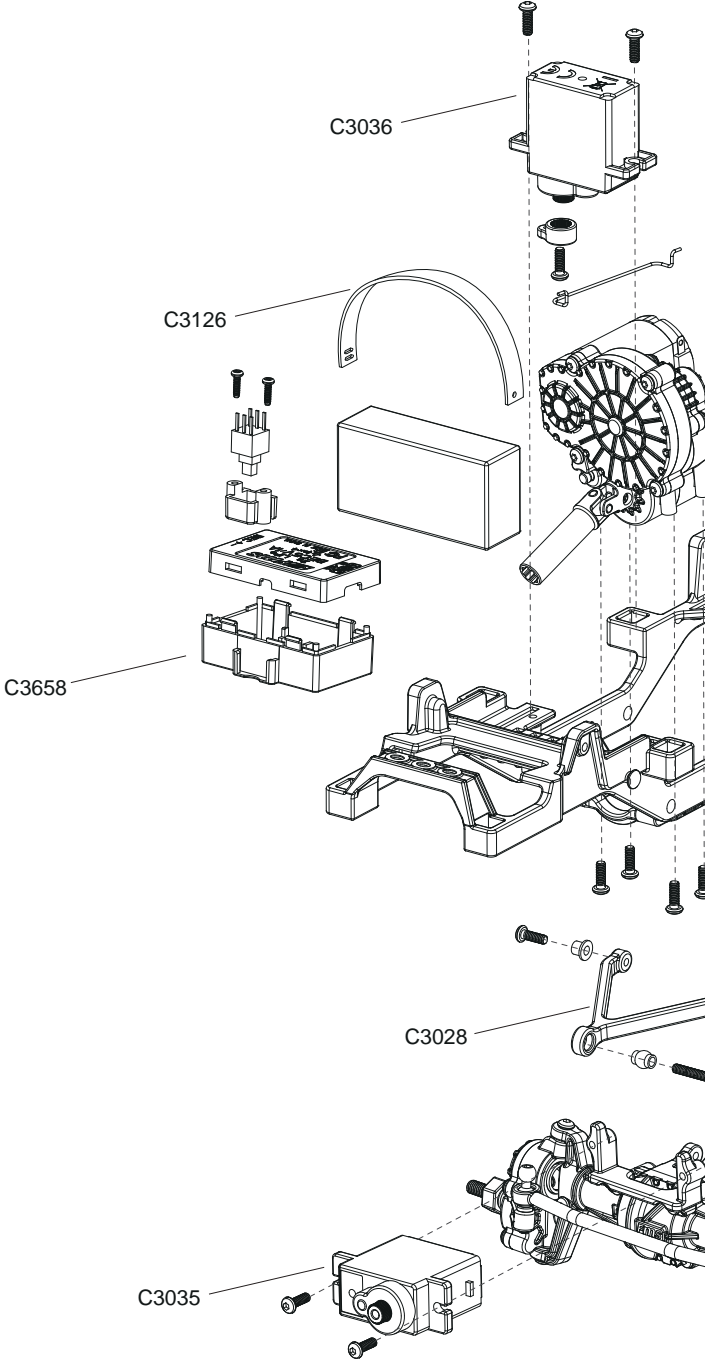


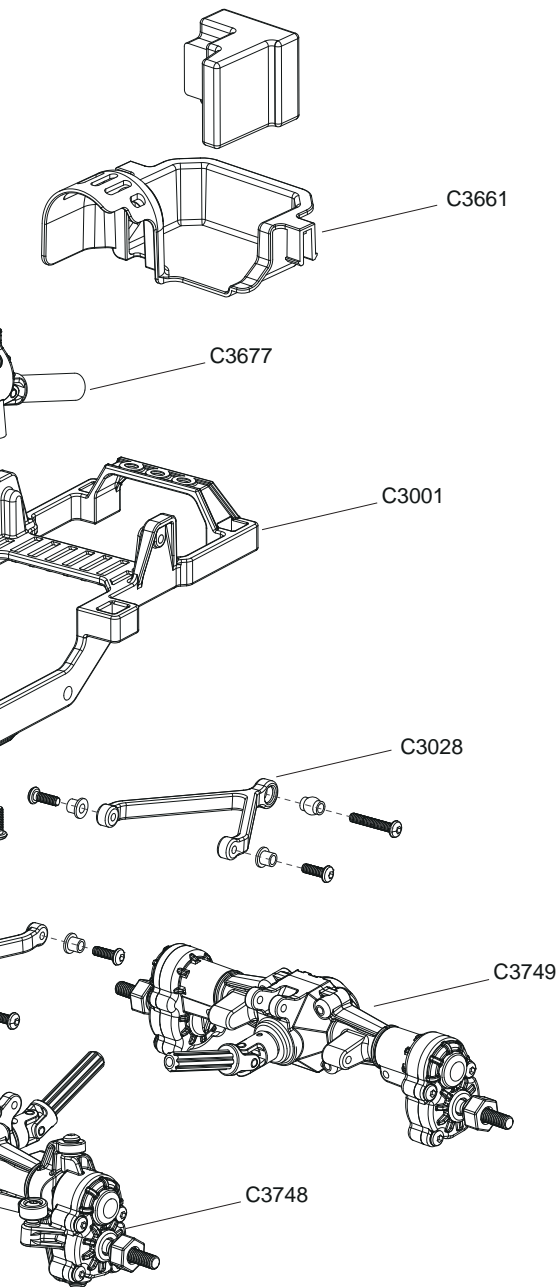


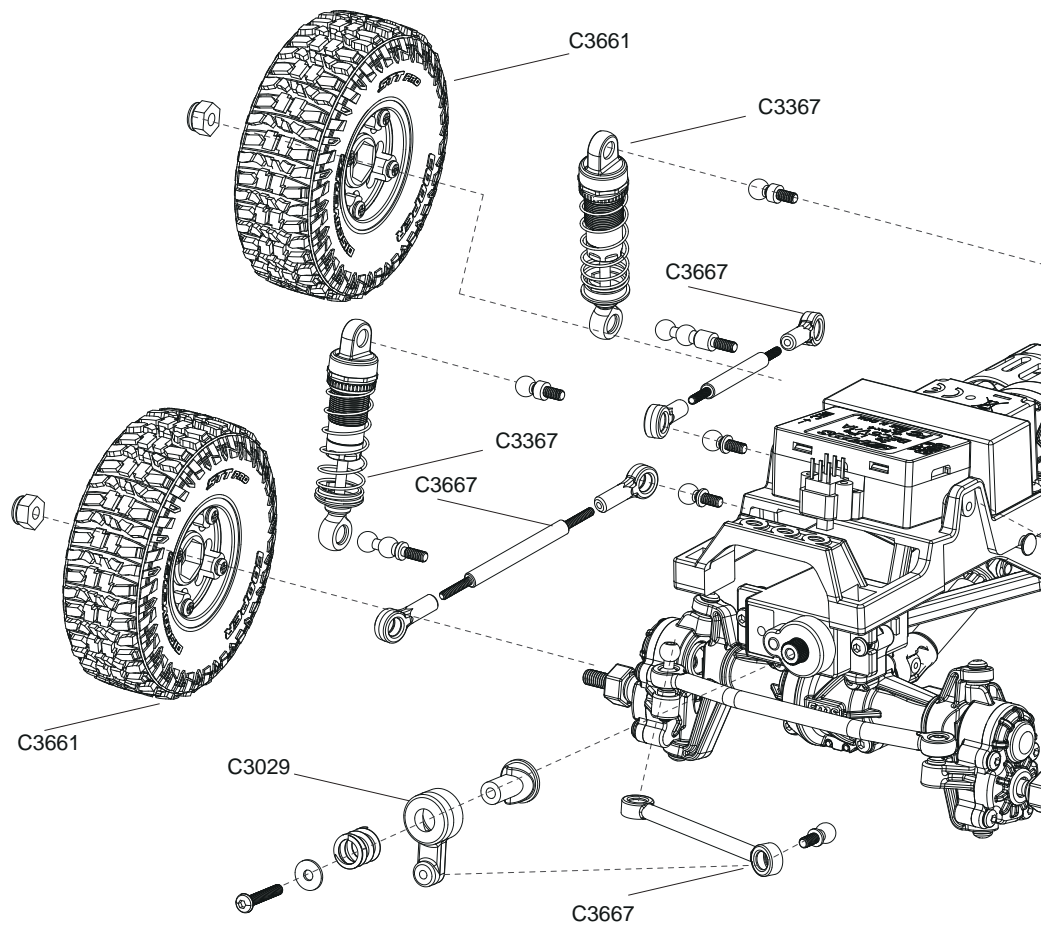


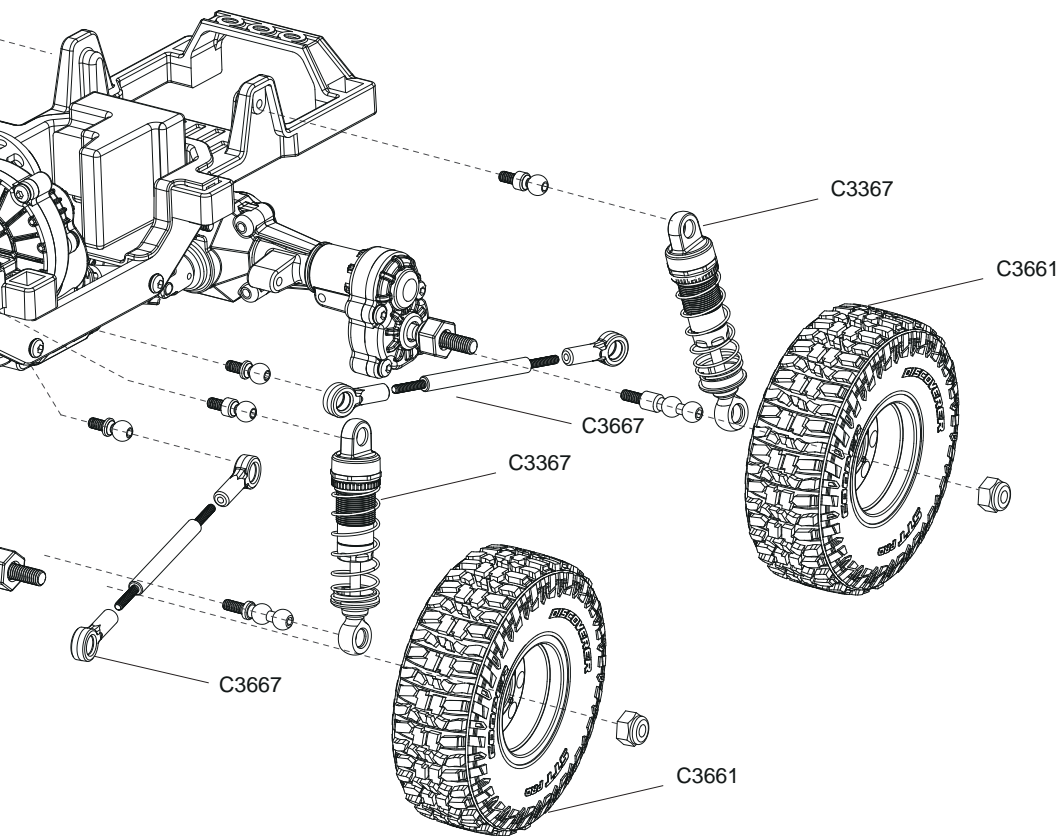


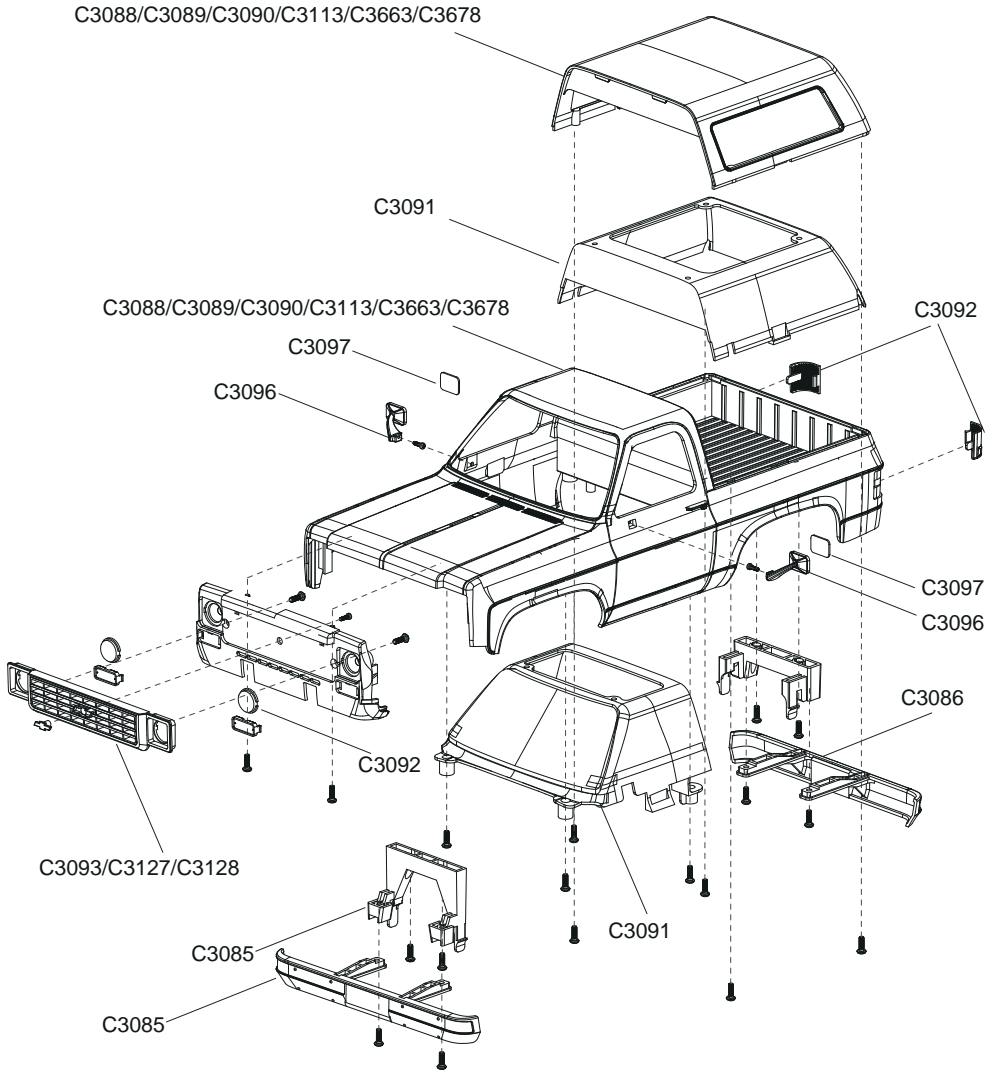






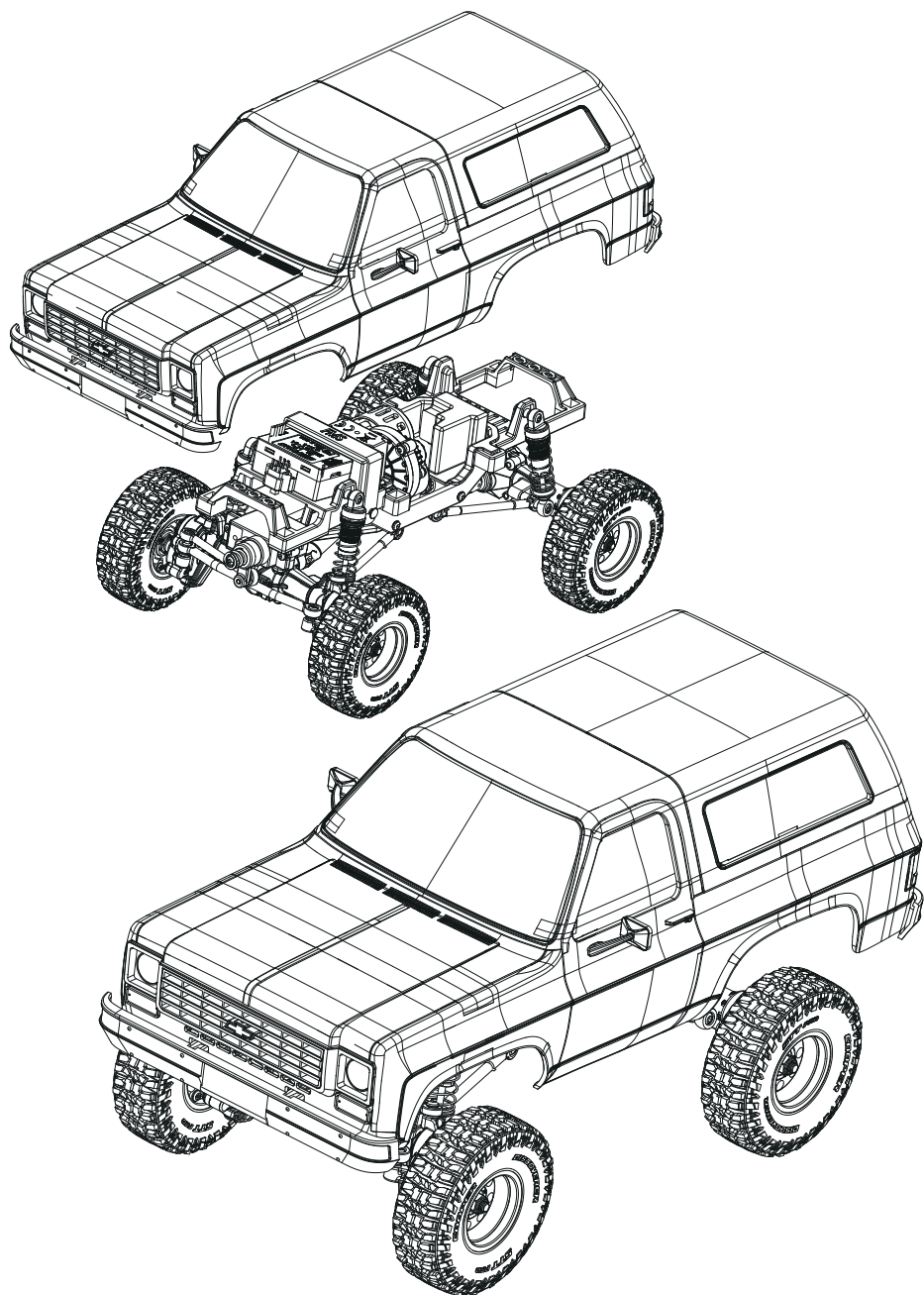






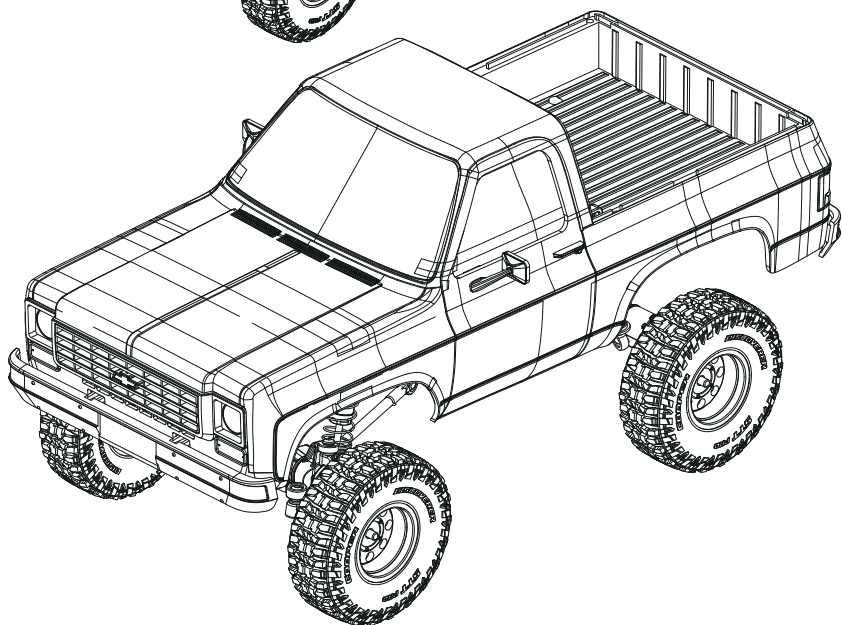
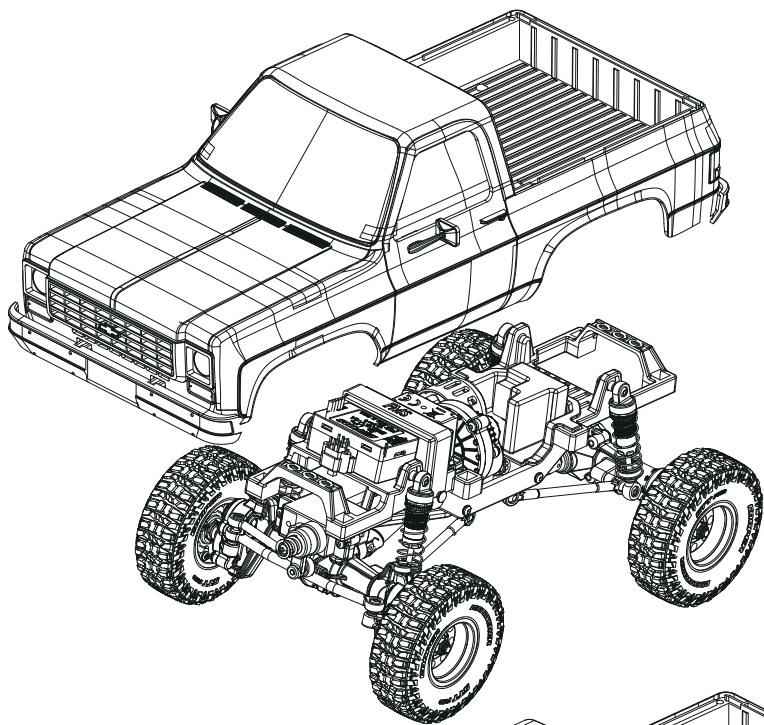


EN: Vehicle  
CN: 整车组 (SUV款)



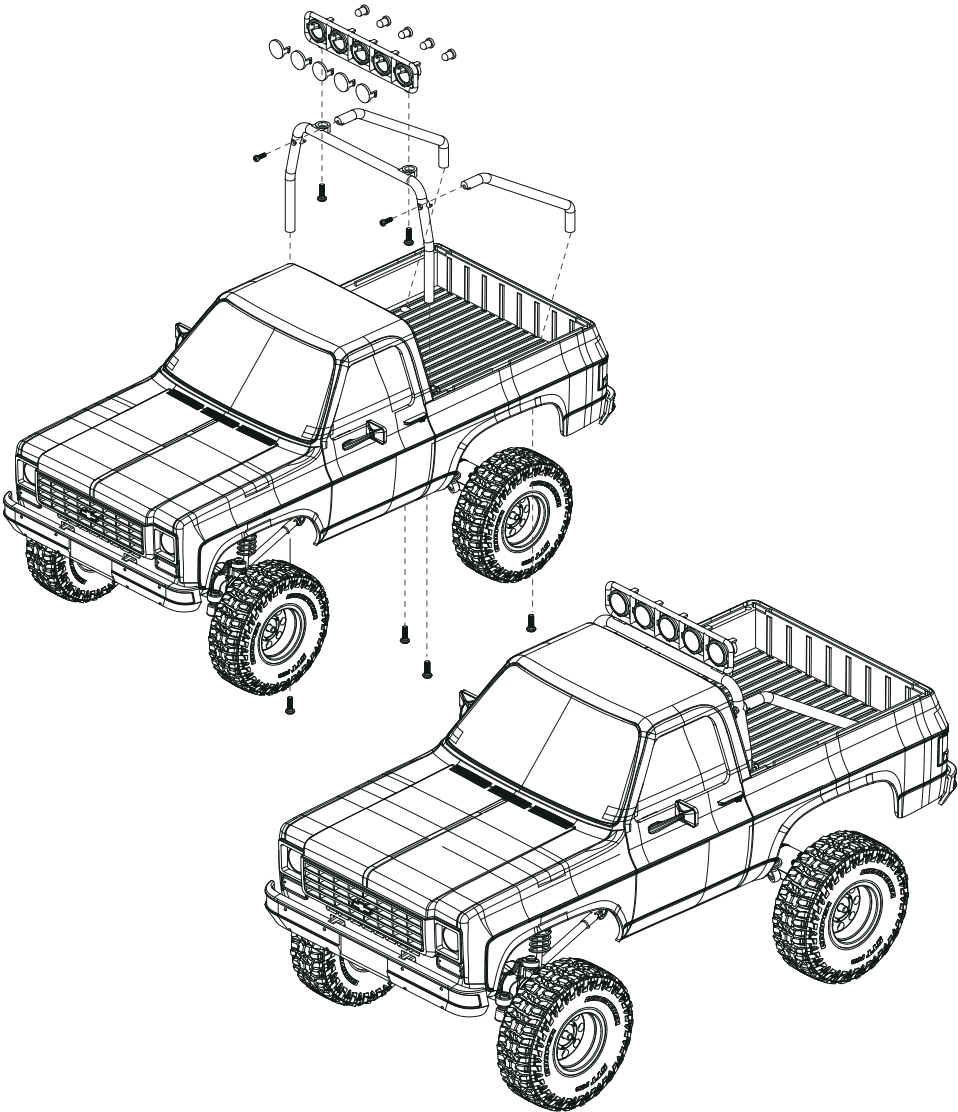
EN: Vehicle

CN: 整车组 (皮卡款)



EN: Roll Cage Installation

CN:安装防滚架



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