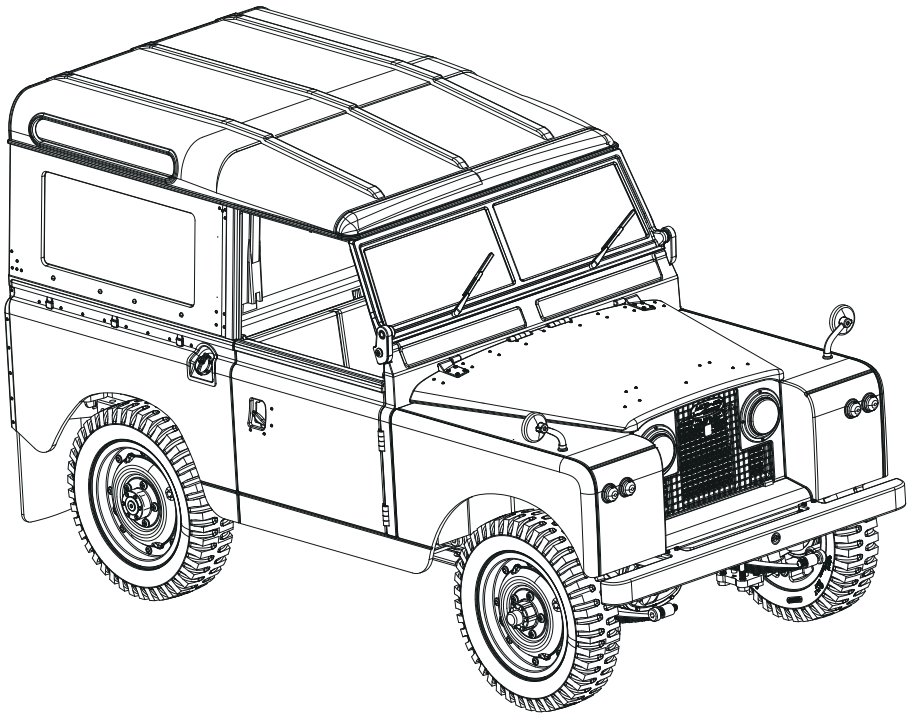


Fms

***1/12 LAND ROVER
SERIES II***



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. FMS and its distributors are not responsible in any way for any and all bodily harm and/ or property damage that may result from the use of this product.

感谢您购买我们的产品。

本手册旨在帮助您正确操作、维护和修理车辆。由于本品所涉部件多数为特有部件，请保留本手册作为未来参考之用。

本产品由精密部件组成，并非玩具，因此不适合 14 岁以下的少年或儿童使用。未成年人操作时应有成人陪同。未能以安全的方式操作或维护本产品可能会导致人身伤害。以安全的方式操作本产品是所有者的责任。FMS 及其分销商对使用本产品可能导致的任何和所有人身伤害和/或财产损失概不负责。

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

- 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

In 1945, the devastation of World War II had brought about great trauma to Britain, with its economy in decline and cities destroyed, and many factories bombed. At this time, Rover car company, which had been known for producing luxury cars before the war, found that luxury cars were no longer in line with the times, and steel usage was strictly controlled by the government while people's ability to purchase cars had greatly declined.

To overcome the difficulty, Rover's technical director, Maurice Wilks, led the development of a versatile four-wheel drive utility vehicle, primarily intended for agricultural use. This vehicle was based on the American off-road vehicle, and was specifically tailored to meet the demands of farming and construction work.

In 1948, to differentiate this tool-like off-road vehicle from the traditional Rover brand, a new sub-brand was created, with the new name "Land" added to the existing "Rover" name, hence the name "Land Rover". This vehicle became the original Land Rover Series I, and served as the foundation of the Land Rover brand.

Despite its boxy appearance, the small off-road vehicle sold over 10,000 units in its first year on the market, thanks to its affordable price and excellent performance, setting the foundation for the later success of Land Rover in the UK.

Following the success of the Series I, Rover executives saw a bright future and, on the occasion of the 10th anniversary of the Land Rover brand, developed the Series II on the 88- and 109-inch wheelbase platforms. The Series II not only improved overall workmanship and design, but also introduced multiple versions for consumers to choose from, including pick-up trucks with long and short wheelbases, and enclosed cargo box utility vehicles. More than 10 versions are available in both hard-top and canvas soft-top configuration.

Land Rover's inherent spirit of adventure and exploration also won the favor of the British Royal Family, with Land Rover off-road vehicles becoming a regular fixture in the royal fleet and frequently used as the transportation of choice for members of the royal family. By the time the Land Rover brand celebrated its 20th anniversary in 1968, the Series line had sold over 600,000 units, earning widespread praise in the marketplace.

1945年，第二次世界大战给英国带来了巨大的创伤。经济倒退、城市被毁，很多工厂都遭到了轰炸。罗孚（Rover）作为当时英国最大的汽车公司，曾经的强项豪华轿车已变得不合时宜。加之钢材用量受到英国政府严格管控，民众的汽车消费能力大幅下降。

为了渡过难关，罗孚汽车公司的技术总监莫里斯·威尔克斯先生主持开发了一款农用为主的多功能四驱越野车。这款车以美军吉普为蓝本，更加针对农田和工地这样的使用环境。

1948年，为了区别于传统的罗孚品牌汽车，这辆工具车性质的越野车启用了全新的子品牌——新品牌的名称在“罗孚（Rover）”的名字前面加上了“Land（陆地、田地）”，定名“Land Rover（路虎）”，而这款车型就是后来的路虎Series I车型，也是路虎品牌的开山之作。

这车像罐头盒子一样的小越野车，凭借实惠的价格和出色的性能，在上市第一年就卖出了一万台，市场反响极好，这也为后期路虎汽车在英国的走红奠定了基础。

Series I大获成功，让罗孚高层看到了曙光，于是在路虎品牌诞生10周年之际，在88英寸和109英寸轴距平台上打造了新款车型——Series II。Series II不仅改善了整体工艺，完善了设计，还推出了多个版本供消费者选择，其中包括长、短轴距的皮卡和封闭货斗的厢式工具车等十多个版本，均提供硬顶和帆布软顶两种配置。路虎品牌与生俱来的冒险家探索精神也深受英国王室和军队的喜爱，扎实的可靠的Series II屡次在阅兵中担任检阅车。至1968年，路虎品牌成立20周年之际，Series系列车型售出数量已高达60万台，好评如潮。

About Model 产品介绍

The Land Rover brand has gone through several generations of evolution and innovation, and has never stopped its pursuit of progress. In 2023, FMS has released a highly realistic and fully functional model of the iconic Land Rover Series II, faithfully reproducing this legendary off-road vehicle.

The Land Rover Series II is extremely accurate in terms of appearance, size and details, with a level of realism that is comparable to static models. The car shell is designed with scaled rivets, etched grille, door hinges, a fuel tank cap, engine hood support rod and other features, to increase realism. The front seats can accommodate three passengers, compatible with 1/12 scale action figures. The front windshield can be tilted down, and the hood and rear door can open to increase the model's authenticity.

To provide players with more fun and versatility, the Land Rover Series II offers two different styles of roof, allowing for three different configurations: a hardtop pickup, a hardtop van, and an open-top vehicle, providing countless possibilities for modifications. The product is equipped with a functional lighting system, which can be linked with steering direction, adding to the immersive driving experience. In addition, the Land Rover Series II is built on a durable metal chassis, capable of bearing various loads, and the suspension system can be adjusted by adding or reducing steel springs to make it more versatile and durable. The four-wheel drive and two-speed gearbox provide ample torque and power, delivering a thrilling and exciting driving experience.

Overall, the Land Rover Series II perfectly combines attention to detail with functional control, as well as the adventurous spirit represented by the brand. This product will become a collectible for Land Rover fans and off-road enthusiasts, satisfying the users' yearning for off-road adventure and style.

路虎品牌至今已历经数代传承与进化，但从未停下进取的脚步，仍然坚持不断地进行技术革新。2023年FMS推出了一款高度逼真、功能齐全的路虎Series II遥控模型，忠实再现这一传奇车型。

路虎Series II无论在外观、尺寸还是细节上都非常精准，仿真度更加符合原型的风貌，超精细实车细节，堪比静态车型。车身仿真铆钉设计、精美蚀刻片进气格栅、仿真开门合页、油箱盖、引擎盖撑杆，细节丰富。前排座椅可容纳三名乘客，可与1/12比例的可动人偶兼容；前挡风玻璃可向前放倒，引擎盖、尾门可活动。

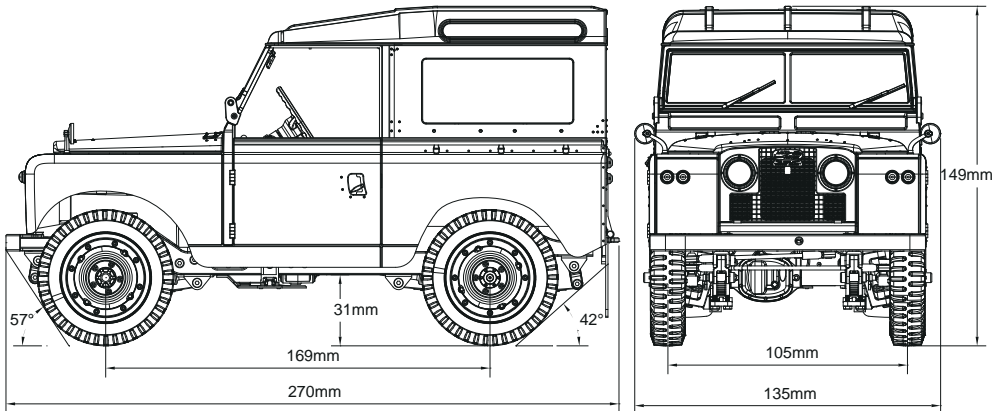
为了给玩家提供更多的乐趣，路虎Series II提供了两种不同的车顶样式，可切换硬顶皮卡、硬顶厢式货车、敞篷车三种形态；全车灯光表达，可方向联动，增加了身临其境的驾驶体验；此外，路虎Series II建立在耐用的金属底盘上，可承受各种负载，悬架系统可通过增减钢弹簧进行调整。四轮驱动和两档变速可提供充足的扭矩和动力，带来惊险刺激的操控体验。

总的来说，路虎Series II既能满足静态诉求，也能满足动态诉求，它既可以收进精美玻璃罩内做路虎爱好者的收藏品，也可以驰骋在崎岖道路上满足越野爱好者的操控乐趣。

Features 特点

- The whole vehicle adopts ball bearings, making for a more efficient transmission.
- Two-speed transmission, which can be switched freely.
- Four-wheel drive system, excellent off-road performance.
- The structural design of leaf springs and metal beams improves the load-carrying capacity and durability of the vehicle.
- Fully simulated interior with exquisite details.
- The vehicle lighting system includes direction linkage to enrich user experience.
- The hood, doors on both sides and the tailgate can be opened, and the windshield can be folded down.
- The roof can be replaced, creating different styles, and providing more personalization options.
- 全车滚珠轴承，传动更高效。
- 两档变速器，可自由切换。
- 四轮驱动系统，具有出色的越野性能。
- 钢板弹簧和金属大梁，提高车身的承载能力和耐久性。
- 全仿真内饰，细节处理精细。
- 全车灯光表达，方向联动，丰富用户体验。
- 引擎盖、两侧车门和尾门可开启，前风挡可放倒。
- 车顶可更换不同样式，提供更加个性化选择。

Specification 产品参数



- Length:270mm
- Width:135mm
- Height:149mm
- Wheelbase:169mm
- Tire F/R :Φ 54.8*19.5mm
- Minimum Ground Clearance: 31mm
- Approach Angle: 57°
- Departure Angle: 42 °

- 车长:270mm
- 车宽: 135mm
- 车高: 149mm
- 轴距: 169mm
- 轮胎: Φ 54.8*19.5mm
- 离地间隙: 31mm
- 接近角: 57°
- 离去角: 42°

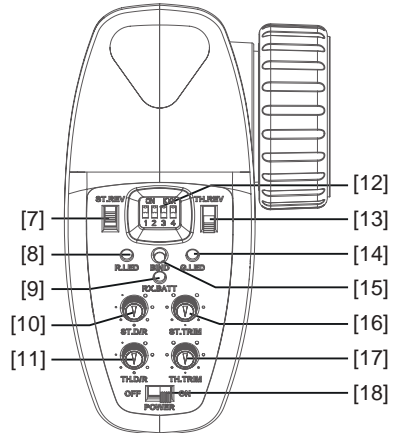
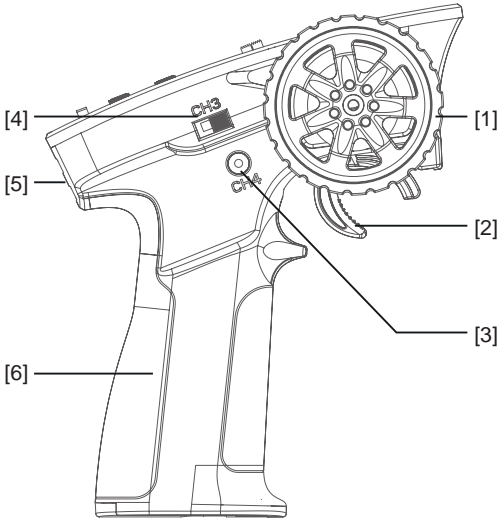
- Motor: 180 Brushed motor
- Battery : 2S Lipo 7.4V 380mAh x1
- Remote control distance: 30m
- Approx. operating duration time: 20mins
- Remote control:MG41-BS transmitter ,
R4A1 receiver with ESC
group control board

- 电机: 180有刷电机
- 电池: 2S Lipo 7.4V 380mAh
- 遥控距离: 30m
- 续航: 20mins
- 遥控: MG41-BS发射机,
R4A1接收机/电调 (二合一)

Transmitter instruction 发射机介绍

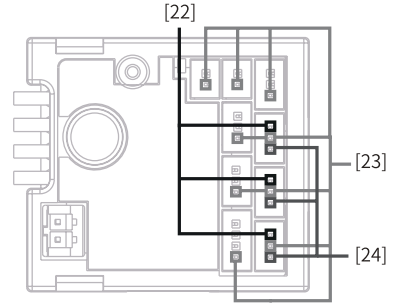
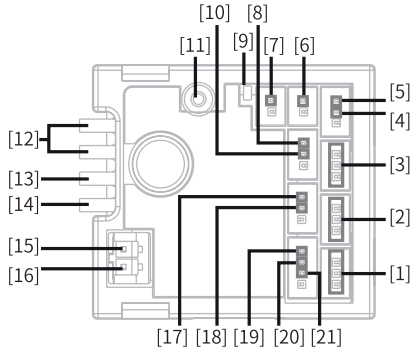
The MG41-BS is a simplified 4-channel transmitter that adopts the 2.4GHz 2A-BS Automatic Frequency Hopping Digital System. The transmitter is lightweight and compact in design, comfortable and ergonomic. It has a beginner mode and is easy for beginner players to use.

MG41-BS 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)
- [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)
- [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)
- [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)

Overview 接收机



- | | | |
|---------------------------------------|----------------------------|---|
| [1] CH1 | [9] LED | [17] Left Turn Signal Light Interface |
| [2] CH3 | [10] Headlight interface | [18] Right Turn Signal Light Interface |
| [3] CH4 | [11] Antenna | [19] Tail Light Interface |
| [4] Headlight Interface | [12] Power Switch | [20] Brake Light Interface |
| [5] Right Turn Signal Light Interface | [13] Battery Line Anode | [21] Backup Light Interface |
| [6] Fog Light Interface | [14] Battery Line Ccathode | [22] Signal Pin |
| [7] Fog Light Interface | [15] Motor Interface "M+" | [23] + (CH Interface/Light Interface Anode) |
| [8] Left Turn Signal Light Interface | [16] Motor Interface "M-" | [24] - (CH Interface/Light Interface Cathode) |
-
- | | | | |
|-----------|-------------|----------------|------------|
| [1] CH1 | [7] 雾灯接口 | [13] 电池线正极 | [19] 尾灯接口 |
| [2] CH3 | [8] 左转灯接口 | [14] 电池线负极 | [20] 刹车灯接口 |
| [3] CH4 | [9] LED 指示灯 | [15] 马达接口 "M+" | [21] 倒车灯接口 |
| [4] 前灯接口 | [10] 前灯接口 | [16] 马达接口 "M-" | [22] 通道信号端 |
| [5] 右转灯接口 | [11] 天线 | [17] 左转灯接口 | [23] 电源正极 |
| [6] 雾灯接口 | [12] 电源开关 | [18] 右转灯接口 | [24] 电源负极 |

* Note: CH1, CH3 and CH4 interfaces use standard 1.25mm*3Pin terminal blocks. The car light interface uses standard 1.25mm terminal blocks. The battery interface uses an Molex 51005 female connector. The motor interface is a PH2.0 female terminal blocks.

* 注: CH1 通道、CH3 通道和 CH4 通道接口采用标准的 1.25mm*3Pin 端子座; 车灯接口采用标准的 1.25mm 端子座; 电池接入采用 Molex 51005 母座接口; 马达接口采用 PH2.0 母座端子座。

Receiver LED 接收机指示灯

The LED status indicates the power supply state of the receiver and its working state.

Off: The receiver is not powered on.

Solid on in red: The receiver is connected to the power supply. It works normally.

Fast flashing: The receiver is in the bind mode.

Slow flashing: The LED flashes slowly when the transmitter is powered off, unbound, or no signal.

接收机状态指示灯用于指示接收机的电源及工作状态。

灭: 接收机电源未接通。

红灯常亮: 接收机已连接电源, 并正常工作。

快速闪烁: 接收机处于对码状态中。

慢速闪烁: 发射机未开机或未对码, 无信号情况。

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)

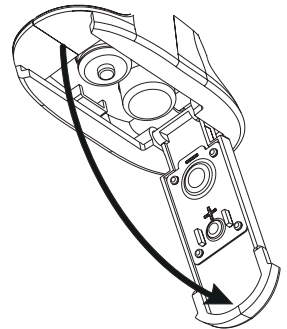
电池类型使用：AAA 电池

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。



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



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。



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 Channel: The assigned control is the steering wheel. CH1 controls the steering to enable a car to turn left or right.
- CH2 Channel: The control is the throttle trigger. CH2 controls the throttle to enable a car to move forward or backward.
- CH3 Channel: 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 Channel: 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 steeringfunction.

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, 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.

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 ser vo adjustment . TH.TRIM is for CH2 throttle trim. TH.D/R is for CH2 throttle ser vo adjustment .

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

此功能用于将 ST.TRIM 及 ST.D/R 旋钮复用为 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。

Failsafe 失控保护

The failsafe function is used to protect the model and personnel when the receiver is out-of-control. The failsafe for CH2 is enabled by default, the ESC1 will enter the brake state when the receiver is out-ofcontrol. By default, the failsafe for CH1, CH3 and CH4 channels have not set, and can be set at the transmitter side, and these three channels will maintain the last output in case of out-of-control.

Setup:

In the normal power-on state, set the control corresponding to the channel to be configured with failsafe to the preset position, meanwhile, press and hold the BIND button for 3 seconds to set the output value as the failsafe value. And if the G.LED flashes for 2 seconds, it indicates that the setting is successful.

Then the failsafe value set will output in case of out-of-control.

System Functions 系统功能

此功能用于当接收机无法正常收到发射机的信号不受控制时，保护模型和操作人员的安全。

接收机 CH2 通道默认开启失控保护，失控后电调进入刹车模式；而 CH1 通道、CH3 通道和 CH4 通道，可在发射机端设置相应的失控保护值。默认未设置，未设置时 PWM 接口保持最后输出。

功能设置：

发射机开机正常通信状态下，将需要设置的通道保持在需要设定的失控保护值位置保持不动，同时长按对码键 (BIND) 3 秒，G.LED 指示灯闪烁 2 秒表示设置成功，即当接收机无法接收信号后，将按照设定的失控值输出。

Beginner Mode 初学者模式

Beginner mode is designed for people new to the hobby.

In this mode the throttle channel has been limited to output 50 percent, the channel range defaults has been set to 1250~1500~1750us. By default, the mode is normal mode.

Setup:

To switch between beginner mode and normal mode, press and hold the CH4 button while turning the steering wheel completely counterclockwise as far as it can, and at the same time, power on the transmitter. When the G.LED works in two-flash-one-off mode for 3 seconds, then the beginner mode has switched. In case of the G.LED is off, the normal mode is switched.

此初学者模式比较适合入门级玩家，通过对油门幅度的控制来提高操作的安全性。

初学者模式油门输出仅为 50%，即 CH2 通道范围默认为 1250~1500~1750us。出厂默认为正常模式。

功能设置：

切换初学者模式和正常模式：按住 CH4 按键，同时将方向手轮逆时针打到底，并开机，当 G.LED 指示灯二闪一灭持续 3 秒时，表明切换到初学者模式；正常模式时，G.LED 指示灯灭。

Four-wheel Steering 四轮转向

The transmitter supports four-wheel steering function which is used to set the wheels that control the steering of the vehicle. This function adapts partial crawler types with steering on both front and rear wheels.

The four-wheel steering function is controlled by CH4 channel, and the control is CH4 button. Switch to four-wheel steering function firstly, then set the control mode.

Switching the drive control/four-wheel steering function

In the normal power-on state, press both the BIND button and the CH4 button to switch between the drive control and four-wheel steering. The drive control is the default mode.

Note: The setting will be save when the transmitter turns off.

After switching to four-wheel steering function, you can set the control mode in turn: Front wheel steering, front and rear wheels reversal steering, front and rear wheels in the same steering, rear wheel steering (normal) and rear wheel steering (reverse).

Setup:

Press and hold the CH4 button over 2 seconds to switch the mode. Switch one mode per press of the control. By default, it is front wheel steering.

支持四轮转向模式设置，用于设置控制车辆转向的车轮，适用于前后轮均带转向功能的部分攀爬车类型。

四轮转向模式复用 CH4 通道，由 CH4 按键控制。要设置四轮转向控制方式，需先切换到四轮转向模式。

驱动控制模式 / 四轮转向模式切换

发射机正常开机状态下，同时短按 BIND 按键和 CH4 按键，即可切换驱动控制模式和四轮转向模式，默认驱动控制模式。

注：模式切换后，关机保存设置。

切换到四轮转向模式后，可顺序设置五种转向控制方式：仅前轮转向、前后反向、前后同向、仅后轮转向（正向）和仅后轮转向（反向）。

功能设置：长按 CH4 按键（≥ 2 秒）切换模式。每长按控件一次切换一种模式。默认前轮转向。

Drive Control 驱动控制

The transmitter supports drive control function which is used to set drive control mode. The drive function is controlled by CH4 channel, and the control is CH4 button. Switch to drive control function firstly, then set the control mode.

Switching the drive control/four-wheel steering function

In the normal power-on state, press both the BIND button and the CH4 button to switch between the drive control and four-wheel steering. The drive control is the default mode.

Note: The setting will be save when the transmitter turns off.

After switching to drive control function, you can set the drive mode between 2-wheel drive and 4-wheel drive.

Setup:

Press and hold the CH4 button over 2 seconds to switch the mode. Switch one mode per press of the control.

支持驱动模式设置，用于设置驱动控制模式。

驱动模式复用 CH4 通道，由 CH4 按键控制。要设置驱动控制方式，需先切换驱动控制模式。

驱动控制模式 / 四轮转向模式切换

发射机正常开机状态下，同时短按 BIND 按键和 CH4 按键，即可切换驱动控制模式和四轮转向模式，默认驱动控制模式。









注：模式切换后，关机保存设置。

切换到驱动模式后，可设置为两驱控制或四驱控制。

功能设置：

长按 CH4 按键（≥ 2 秒）切换模式。每长按控件一次切换一种模式。

ESC Parameters Setting 电调参数设置

Running Mode	Battery Type	Drag Brake	
 FWD/REV/BRK	 Lipo	 0%	 75%
 FWD/REV	 NiMH	 50%	 100%

Toggle Switch Sign 拨码开关标识

The Toggle Switch on the transmitter is used to set ESC parameters, that is, the Toggle Switch is located at different positions and the corresponding parameter values are different.

There are three parameters can be set for the ESC, which are "Running Mode", "Battery Type" and "Drag Brake". There are slide switches numbered 1, 2, 3, 4 on the transmitter panel. The above parameters can be set by toggling up and down.

发射机上的拨码开关用于设置电调参数，即拨码开关位于不同位置对应参数值不同。

该电调有三个参数项可以设置，分别是“运行模式 (Running Mode)”、“电池类型 (Battery Type)”、“拖刹力度 (Drag Brake)”。发射机面板上有一列编号为 1 2 3 4 的拨码开关，通过上下拨动可以实现对上述参数项的设置。

1. Running Mode

FWD/REV/BRK(Forward/Reverse/Brake): This mode adopts "double click" reverse mode, that is, when the throttle trigger is pushed from natural range to the reverse area for the first time, the motor is only braking and will not reverse; when the throttle trigger is moved back to the natural range and pushed to the reverse area for the second time, it will reverse. This mode is applicable to general models.

FWD/REV(Forward/Reverse): This mode adopts "one click" reverse mode, that is, when the throttle trigger is pushed from natural range to the reverse area, the motor immediately generates reverse action, which is generally applied to rock crawler.

Setup:

Toggle the No. 1 slide switch to the down, then the running mode is set to FWD / REV / BRK. Toggle the No. 1 slide switch to the up, then the running mode is set to FWD/REV.

Battery Type

There are LiPo and NiMH cells. It can be set according to the actual use.

Setup:

Toggle the No. 2 slide switch to the down, then the battery type is set to Lipo. Toggle the No. 2 slide switch to the up, then the battery type is set to NiMH.

Drag Brake Force

The drag brake means that when the throttle trigger moves from the forward or reverse area to neutral range, it will produce certain braking force to the motor, the larger the value is, the greater the drag brake force is. Select proper braking force according to the actual situation.

Setup:

Toggle both the No. 3 and the No.4 slide switches to the down, then the drag brake force is set to 0%. Toggle the No. 3 slide switch to the down and the No.4 slide switch to the up, then the drag brake force is set to 50%. Toggle the No. 3 slide switch to the up and the No.4 slide switch to the down, then the drag brake force is set to 75%. Toggle both the No. 3 and the No.4 slide switches to the up, then the drag brake force is set to 100%.

运行模式 (Running Mode)

前进后退带刹车 (FWD/REV/BRK)：此模式采用的是“双击式倒车”，即油门扳机在第一次从中点区域推至反向区域时，电机只是刹车，不会产生倒车动作；当油门扳机回到中点区域并第二次推至反向区域时，则产生倒车动作。此模式适用于一般车型。

直接正反转 (FWD/REV)：此模式采用“单击式”倒车方式，即油门扳机从中点区域推至反向区域时，电机立即产生倒车动作，该模式一般用于攀爬车等特种车辆。

功能设置:

将发射机面板上编号为 1 的拨码开关拨至下，运行模式即设置为前进后退带刹车 (FWD/REV/BRK)。将发射机面板上编号为 1 的拨码开关拨至上，运行模式即设置为直接正反转 (FWD/REV)。

电池类型 (Battery Type)

有锂电和镍氢两种选择，根据实际使用情况设置即可。

功能设置:

将发射机面板上编号为 2 的拨码开关拨至上，电池类型即设置为锂电池。将发射机面板上编号为 2 的拨码开关拨至下，电池类型即设置为镍氢。

拖刹力度 (Drag Brake)

拖刹是指当油门扳机从正向区域或反向区域转入中点区域内时，对电机产生一定的刹车力，这样可以模拟有刷电机的碳刷对电机转子的阻力，适合减速入弯及攀爬车应用。

功能设置:

将发射机面板上编号为 3 的拨码开关和编号为 4 的拨码开关拨至上，拖刹力度即设置为 0%；将发射机面板上编号为 3 的拨码开关拨至上，编号为 4 的拨码开关拨至下，拖刹力度即设置为 50%；将发射机面板上编号为 3 的拨码开关拨至下，编号为 4 的拨码开关拨至上，拖刹力度即设置为 75%；将发射机面板上编号为 3 的拨码开关和编号为 4 的拨码开关拨至下，拖刹力度即设置为 100%。

Function Instructions 功能说明

Attentions 注意事项

- Make sure the product is installed and calibrated correctly, failure to do so may result in serious injury.
- Please carefully check each power device and car frame instructions to ensure the power matching is reasonable before use. Avoid damaging power system due to incorrect matching.
 - Do not let the external temperature of the system exceed $90^{\circ}\text{C} / 194^{\circ}\text{F}$, because high temperature will damage the power system.
 - 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.
 - After use, remember to disconnect the battery and the ESC. If the battery isn't disconnected, the ESC will consume electric energy all the time even if it is off. It will discharge completely if connect the battery for a long time, thus resulting in the failure of the battery or the ESC. We are not responsible for any damage caused by this!
 - Make sure the receiver is mounted away from motors 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.
 - If the throttle trim is changed on the transmitter side, the receiver needs to be re-powered to recognize the new throttle neutral. Otherwise, an exception may occur during vehicle reversing.
 - 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。
 - 请查看各动力设备以及车架说明书, 确保动力搭配合理, 避免因错误的搭配导致动力系统损坏。
 - 勿使系统的外部温度超过 $90^{\circ}\text{C} / 194^{\circ}\text{F}$, 高温将会毁坏动力系统。
 - 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, 将导致遥控设备失控。失控保护设置不合理可能引起事故。
 - 用完完后, 若长时间不玩车, 切记断开电池与电调的连接。如电池未断开, 即使电调开关处于关闭状态, 电调也会一直消耗电能 (只是非常小), 长时间连接电池最终会被过放, 进而导致电池或电调出现故障。我们不对因此而造成的任何损害负责!
 - 确保接收机安装在远离电机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。
 - 若在发射机端调整油门微调后, 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。

Protect Function 保护功能

- The receiver supports low voltage protection and high voltage protection function.
- Low Voltage Protection: When the receiver enters the low voltage protection state in case of detecting low voltage, CH2 motor channel has no output. Channels of CH1, CH3 and CH4 output normally, and all the lights flash slowly for prompt.
 - High Voltage Protection: When the receiver enters the high voltage protection state, all channels have no output. All car lights flash quickly for prompt.
- The receiver supports the overheating protection and the blocking protection function.
- Overheating Protection: The receiver will enter the overheating protection state in case of the high internal temperature of the ESC, the CH2 motor channel won't output, but the other channels will output normally. All car lights flash quickly for prompt. The CH2 motor channel will output normally when the temperature is normal.
 - Blocking Protection: When the external motor is blocked, it enters the blocking protection state, to protect the ESC and the motor. The CH2 motor channel won't output, but the other channels will output normally. The CH2 motor channel will output normally when there is no blocking.

Function Instructions 功能说明

本接收机具有电池电压过低和过高保护功能。

- 电压过低保护：当检测到电池电压过低时，CH2 马达通道无输出，CH1 通道、CH3 通道、CH4 通道正常输出，所有车灯慢闪提示。
- 电压过高保护：当检测到电池电压过高时，所有通道无输出，所有车灯快闪提示。

本接收机电调具有过热保护和堵转保护功能。

- 过热保护：当检测到整机温度过高时，CH2 马达通道无输出，CH1 通道、CH3 通道、CH4 通道正常输出，所有车灯快闪提示；当温度正常后，CH2 马达通道恢复输出。
- 堵转保护：当外部马达堵转时，进入堵转保护状态，用于保护电调和马达，CH2 马达通道无输出，CH1 通道、CH3 通道、CH4 通道正常输出；待无堵转时，CH2 马达通道恢复正常输出。

Car Light Control 车灯控制

The car light control is mainly to implement the changeover of lighting states and lighting modes by the setting of the transmitter. All car lights will be on for 1second as the self-check display when the receiver is powered on.

This receiver is preset with five modes for controlling model car lights. In each mode, the on/off states of backup lights are consistent; in other words, the backup light is in a high-light state when the model car backs up; otherwise, it is in off state. The turn signal light(including left turn signal light and right turn signal light), headlight, stop light, tail light and fog light have different on/off states as follows:

- Default mode: In this mode, the turn signal light is in off state regardless of whether the model car makes a turn or not; When braking, the stop light is in a high-light state, and otherwise, it is in off state; The headlight, tail light and fog light are in off state.
- Mode A: In this mode, the turn signal light is in a slow flashing state when the model car makes a turn; When braking, the stop light is in a high-light state, and when not braking, it is in a low-light state; The headlight is in a low-light state; The fog light is in off state.
- Mode B: In this mode, the turn signal light is in a slow flashing state when the model car makes a turn; When braking, the stop light is in a high-light state, and when not braking, it is in a low-light state; The headlight is in a high-light state; The fog light is in off state.
- Mode C: In this mode, the turn signal light is in a continuously slow flashing state regardless of whether the model car makes a turn or not; When braking, the stop light is in a high-light state, and when not braking, it is in a low-light state; The headlight is in a high-light state; The fog light is in solid on state.
- Mode D: In this mode, the turn signal light is in a slow flashing state when the model car makes a turn; When braking, the stop light is in a high-light state, and when not braking, it is in off state; The headlight is in off state; The fog light is in solid on state.

Notes:

1. Press the CH4 button of the transmitter to switch the working mode, one mode per press (Default Mode, Mode A, Mode B, Mode C and Mode D are switched in turn).
2. Every time the receiver is turned on, the car light control mode is in Default Mode.
3. Mode C is an emergency light working state. In this mode, the left and right turn signal lights flash synchronously and slowly as emergency lights.
4. This receiver identifies the neutral positions of Steering CH1 and Throttle CH2 automatically when it is powered on. It recommends to power on the receiver again after the trims of the transmitter are adjusted.

Function Instructions 功能说明

车灯控制主要是通过发射机的设置实现车灯亮灯状态及亮灯模式的转换。接收机上电开机瞬间所有车灯长亮 1 秒做自检显示。

本接收机对模型车车灯的控制预设了五种模式，各模式下模型车的倒车车灯亮灭状态一致，即当模型车倒车时，倒车灯为高亮状态，反之为常灭状态。而转向灯、前灯、刹车灯、尾灯和雾灯的亮灭状态各异，具体如下所述：

- 默认模式：此模式下，无论模型车是否转弯，转向灯状态为常灭状态；当刹车时，刹车灯为亮状态，反之为常灭状态；前灯、尾灯和雾灯为常灭状态；
- 模式A:此模式下，当模型车转弯时，转向灯为慢闪状态，当刹车时，刹车灯为高亮状态，非刹车时为低亮状态，前灯为低亮状态，雾灯为常灭状态。
- 模式 B:此模式下，当模型车转弯时，转向灯为慢闪状态，当刹车时，刹车灯为高亮状态，非刹车时为低亮状态，前灯为高亮状态，雾灯为常灭状态。
- 模式C此模式下,无论模型车是否转弯,转向灯为持续慢闪状态，当刹车时,刹车灯为高亮状态,非刹车时为低亮状态前灯为高亮状态，雾灯为常亮状态。
- 模式D:此模式下，当模型车转弯时，转向灯为慢闪状态，刹车时，刹车灯为高亮状态，非刹车时为常灭状态，前为常灭状态，雾灯为常亮状态。

注：

1. 短按发射机上的 CH4 按键切换工作模式，每按一次，切换一个模式（默认模式、模式 A、模式 B、模式 C 和模式 D 依次切换）；
2. 每次开机时，车灯控制模式为默认模式；
3. 模式 C 为应急灯工作状态，左右转向灯同时同步慢闪做应急灯；
4. 本接收机上电自动识别方向 CH1 和油门 CH2 的通道中位。当发射机调了微调后，建议重启一下接收机。

ESC Function Instructions 电调功能使用说明

Connect Related Equipments

Make sure the receiver is off before connection. Then connect the motor with M+ and M- of the receiver and connect the servo to the 3Pin interface("-", "+" and "S" are connected correspondingly). Finally, connect the battery to the power cable interfaces of the receiver correspondingly.

Calibrate the Throttle Neutral Position

1. After connecting related equipment as above, turn on the transmitter first, then move the throttle trigger to the neutral position.
2. Turn on the switch of receiver at last. The receiver will automatically recognize the battery type when it is powered on again. Then it can run it.

Notes:

1. The ESC can be run after completing self-inspection (about 3 seconds) if power on, otherwise it cannot be operated normally.
2. If there is no power output, please check whether the throttle trim of the transmitter is set to the neutral position, the receiver will automatically recognize the neutral position of the trim throttle after restarting;
3. If the rotation direction is not correct during running, exchange the two cables connecting motor and receiver.
4. To make sure everything is ok, please turn on the transmitter first and then the receiver, and power off the receiver first and then the transmitter.

Function Instructions 功能说明

连接相关设备

连接前请确认接收机电源开关处于关闭 (OFF) 状态, 将电机与接收机马达接口 M+/M- 相连接, 舵机接到接收机 3Pin 排针接口上 ("-"+"S" 相对应), 电池与电池线接口相接, 注意对应极性。

校准油门中点

1. 上面第一步相关设备连接好后, 先打开发射机, 并将发射机油门扳机置于中位位置 (自然状态);
2. 接收机通电, 待自动识别电池类型后方可运行。

注:

1. 电调功能必须等到自检完成后方可运行 (大约 3 秒), 否则可能无法正常动作;
2. 若开机后无动力输出, 请查看发射机油门微调是否置于中位位置, 接收机重启可自动识别微调油门中位;
3. 若运行时发现电机转向不对, 将接收机接电机的两根线互换位置即可;
4. 为了一切正常, 请养成先开发射机通电再接收机通电以及先接收机断电再关闭发射机的习惯。

ESC Drag Brake Force 电调拖刹力度

The receiver supports the function of setting drag brake force at the transmitter side. Refer to ESC Parameters Setting for details.

本接收机支持在发射机端设置电调力度。功能设置请查看 [电调拖参数设置]。

ESC Running Mode 电调运行模式

The receiver supports the function of setting running mode at the transmitter side. It can be set tow modes: FWD/REV and FWD/REV/BRK, and the default mode is FWD/REV/BRK, refer to 5.10 Parameter Setting for details.

本接收机支持在发射机端设置电调运行模式。可设置为直接正反转或正反转带刹车, 默认为正反转带刹车。功能设置请查看 [电调拖参数设置]。

ESC Battery Type 电调电池类型

The receiver supports the function of setting battery type at the transmitter side. It can be set tow types: LiPo and NiMH, and the default type is LiPo, refer to Parameter Setting for details.

本接收机支持在发射机端设置电调电池类型。可设置为锂电池或镍氢电池, 默认为锂电池。功能设置请查看 [电调拖参数设置]。

Failsafe 失控保护

The failsafe function is used to protect the model and personnel when the receiver is out-of-control. Refer to [Failsafe] for details.

此功能用于当接收机无法正常收到发射机的信号不受控制时, 保护模型和操作人员的安全。功能设置参考 [失控保护]。

Product Specifications 产品规格

Transmitter Specifications 发射机规格

Product : Model FS-MG41-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
	Certifications : CE, FCC ID: N4ZMG400, MIC:R210-167762, IC: 25584-MG4BS00

产品型号 : FS-MG41-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
	认证 : CE, FCC ID:N4ZMG400, MIC:R210-167762, IC:25584-MG4BS00

Receiver Specifications 接收机规格

Product Model : FS-R4A3-BS	BEC Output : 6V/1A
Channels : 4	Data Output : PWM
Number of Lights : 7	Antenna : Single Built-in Antenna
Model Type : 1:18 Simulation Car, Crawler Car	Waterproof : PPX4
Applicable Motors : 180 Brushed Motor	Temperature Range : -10 C ~ +60 C
Input Power : NiMH (5~7Cell)/2S Lipo	Humidity Range : 20% ~ 95%
RF : 2.4GHz ISM	Online Update : None
Maximum Power : <20dBm (e.i.r.p.) (EU)	Dimensions : 33mm*30mm*12mm (Excluding capacitor)
2.4GHz Protocol : 2A-BS	Weight :11g
Resolution : 1024	Certifications : CE, FCC ID: N4ZR4A31, MIC: R210-177092,
Continuous / Peak Current : 10A/50A	IC: 25584-R4A31

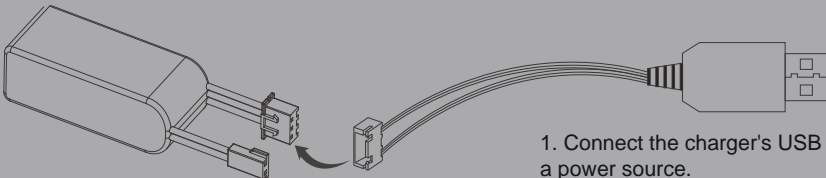
Product Specifications 产品规格

产品型号：FS-R4A3-BS	持续 / 峰值电流：10A/50A
通道个数：4	BEC 输出：6V/1A
车灯组数：7	数据输出：PWM
适配模型：1:18 仿真车、攀爬车	天线类型：内置单天线
适配电机：180 有刷电机	防水等级：PPX4
输入电源：NiMH (5~7Cell)/2S 锂电	温度范围：-10°C ~ +60°C
无线频率：2.4GHz ISM	湿度范围：20% ~ 95%
发射功率：<20dBm	在线更新：无
无线协议：2A-BS	外形尺寸：33mm*30mm*12mm (不含电容)
通道分辨率：1024 级	机身重量：11g 左右
	认证：CE, FCC ID: N4ZR4A31, MIC: R210-177092, IC: 25584-R4A31

Vehicle Setup 车辆设置

Charging the Battery 电池充电

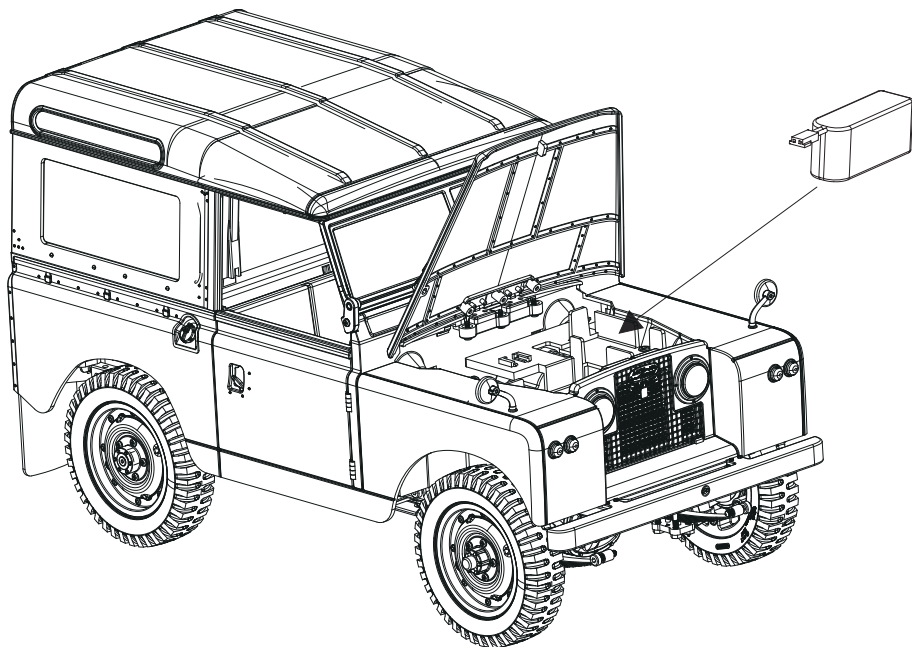
1. Connect the charger to a USB port then connect the battery to the charger.
 2. When charging, the LED light will be red, and when charging is complete, the LED light will be green.
 3. Do not let the battery charge unattended!
 4. If the battery or charger is hot, disconnect the battery and charger immediately as this may be caused by an internal short-circuit.
1. 将充电器连接到USB端口，然后将电池连接到充电器电源线上。
2. LED灯红色为充电状态，LED灯绿色为完成充电。
3. 请勿在无人看管的情况下充电!
4. 如果发现电池或充电器温度过热，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 电池充电



 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。

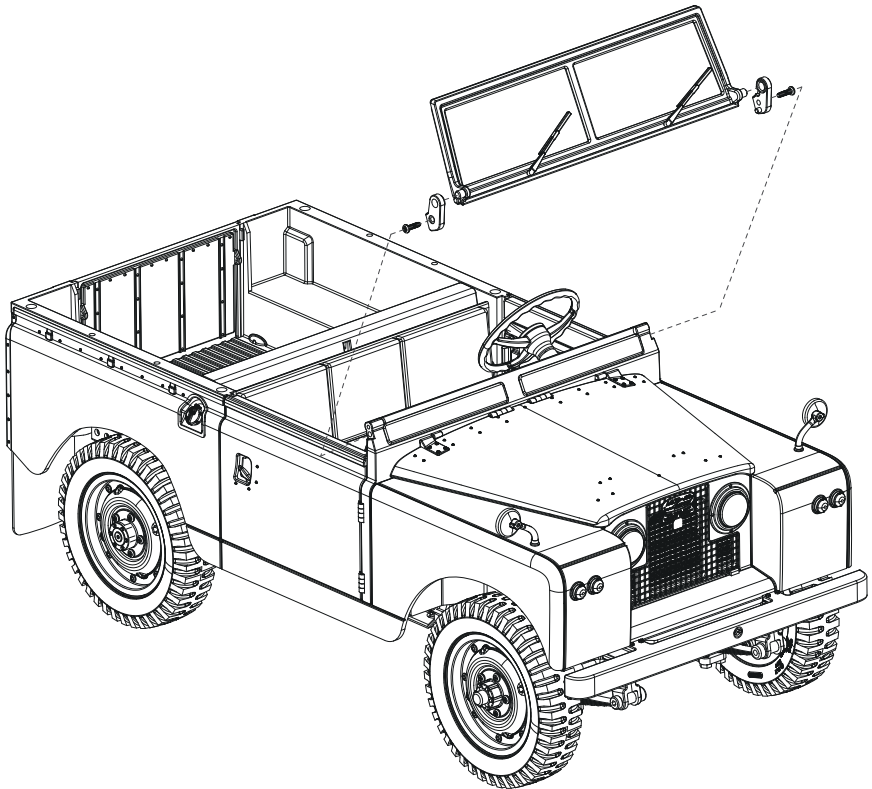
Spare Parts List 配件列表

C1110	Tyres	轮胎
C1649	Front bumper	前防撞 灰
C1113	Girder	金属大梁
C1650	Mini hinge	金属合页
C1115	Front automobile leaf springs	前钢板弹簧
C1160	Rear automobile leaf springs	后钢板弹簧
C1651	Mirrors black	后视镜 黑
C1652	Wiper	雨刷
C1653	Hood green painted	引擎盖 (绿)
C1654	Hood blue painted	引擎盖 (蓝)
C1655	Hood yellow painted	引擎盖 (黄)
C1656	Windows set	车窗玻璃
C1657	Lens set	灯片
C1658	Wheel cover	轮芯盖 灰
C1659	Seat cushion	座椅垫
C1660	Window frame green painted	车窗架 (绿)
C1661	Window frame yellow painted	车窗架 (黄)
C1662	Window frame blue painted	车窗架 (蓝)
C1663	Steering wheel set green	方向盘套装 绿
C1664	Steering wheel set yellow	方向盘套装 黄
C1665	Steering wheel set blue	方向盘套装 蓝
C1666	Handle set	门把手
C1667	Roof (short version) green w/o painting	短车顶 绿 不喷漆
C1668	Roof (short version) white w/o painting	短车顶 白 不喷漆
C1669	Roof (short version) white painted	短车顶 (白)
C1670	Roof (long version) green w/o painting	长车顶 绿 不喷漆
C1671	Roof (long version) white w/o painting	长车顶 白 不喷漆
C1672	Roof (long version) white painted	长车顶 (白)
C1673	Door set green painted	车门 (绿)
C1674	Door set blue painted	车门 (蓝)
C1675	Door set yellow painted	车门 (黄)
C1676	Car body green painted	车身体 (绿)
C1677	Car body yellow painted	车身体 (黄)
C1678	Car body blue painted	车身体 (蓝)
C1679	Rear door green painted	尾门 (绿)
C1680	Rear door yellow painted	尾门 (黄)
C1681	Rear door blue painted	尾门 (蓝)
C1682	Gag lever post set	档杆
C1683	Instrument panel green painted	仪表盘 (绿)
C1684	Instrument panel yellow painted	仪表盘 (黄)
C1685	Instrument panel blue painted	仪表盘 (蓝)
C1686	Exhaustion plate	水箱
C1687	Supporting bar	支撑杆
C1688	Front axle assembly	前直桥总成
C1689	Rear axle assembly	后直桥总成
C1690	Center transmission gear box assembly	中转牙箱成品
C1691	Battery box	电池箱
C1692	Main gear box assembly	驱动牙箱总成
C1693	Gear set	齿轮套装
C1694	Cvd transmission shaft	万向转动轴总成
C1162	Rc car 180 motor	180电机
C1695	Screw set	螺丝套装

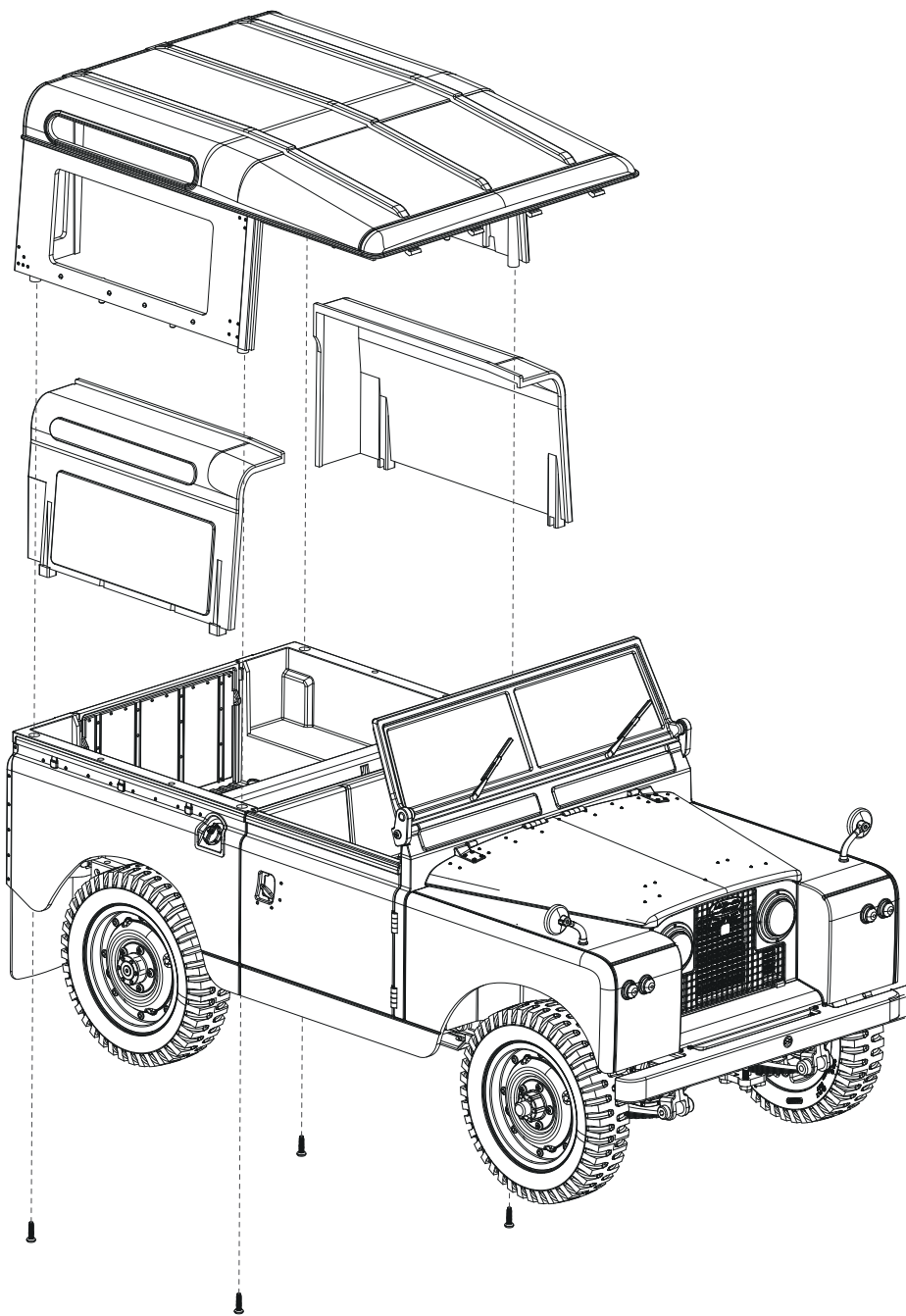
Spare Parts List 配件列表

C1696	Girder	金属大梁
C1697	Girder accessories	大梁塑胶配件
C1698	Screw nut	螺母
C1699	Front wheels cvd drive set	前轮CVD驱动五金
C1700	Rear wheels shaft set	后轮轴五金
C1701	Shock	避振件
C1702	Metal bar for steering whell & gearbox	方向盘拉杆及变速箱拉杆
C1703	Wheels set	轮轴
C2131	Mg41 + r4a1 transmitter receiver set	MG41 + R4A1 发射器/电调接收器
C2130	R4a1 esc/rx combo	R4A1 电调接收器
C1704	Mg41 transmitter v5	MG41 发射器 V5
C1171	Servo 9g l:60mm jst1.25mm (rev)	舵机 9克塑胶60mm线长 1.25插头反向
C1172	servo 9g l:60mm jst1.25mm	舵机 9克塑胶60mm线长 1.25插头
C1173	Servo 9g l:270mm jst1.25mm	舵机 9克塑胶270mm线长 1.25插头
C1705	Led wire	灯线

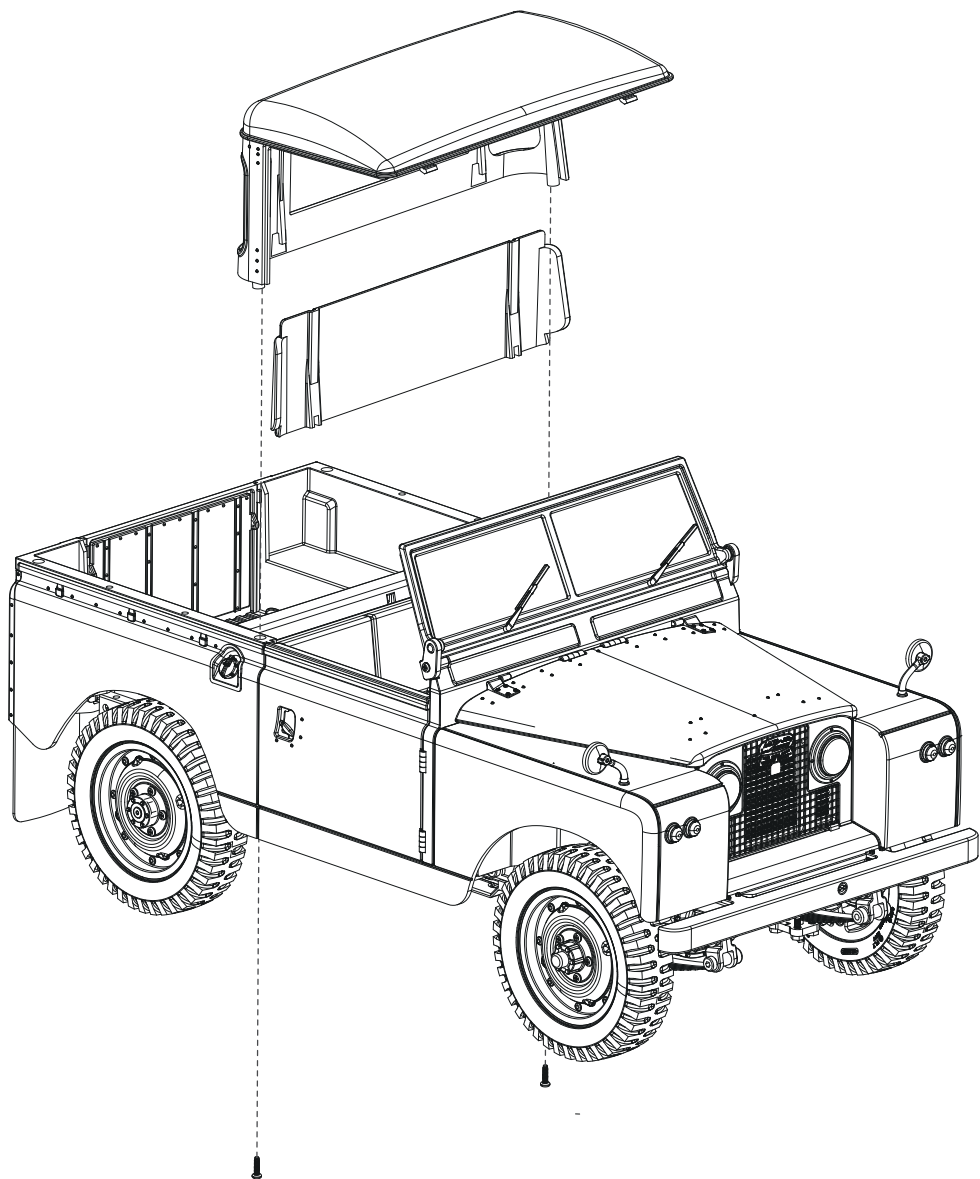
Windshield Parts List 风挡安装



Roof (long version) 长车顶安装

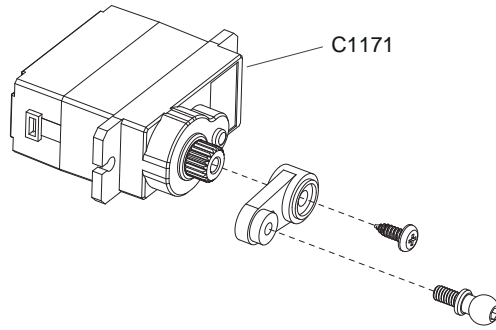


Roof (short version) 短车顶安装



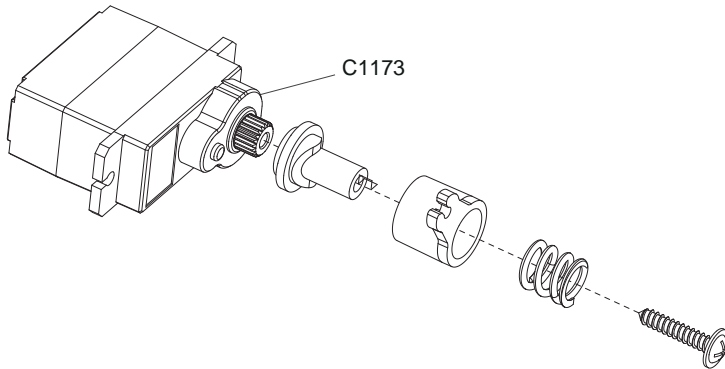
EN:Steering Servo

CN:转向舵机



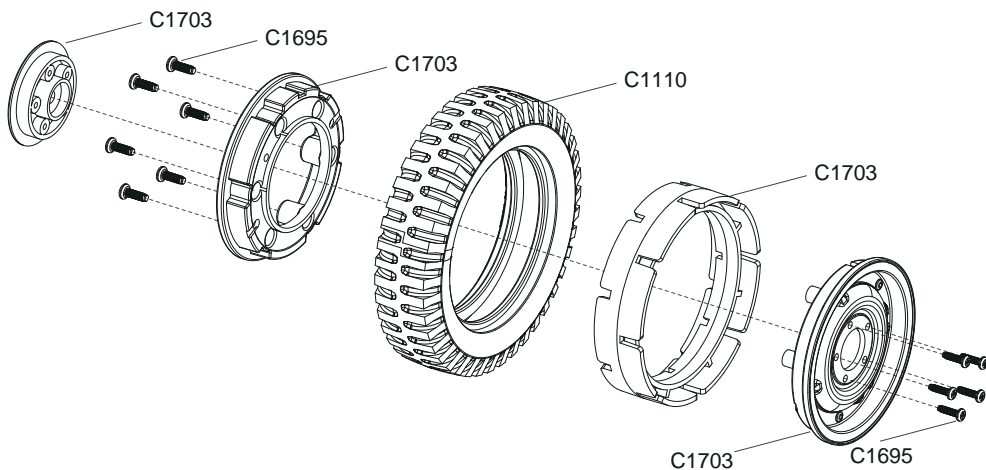
EN:Variable Speed Servo

CN:换挡舵机



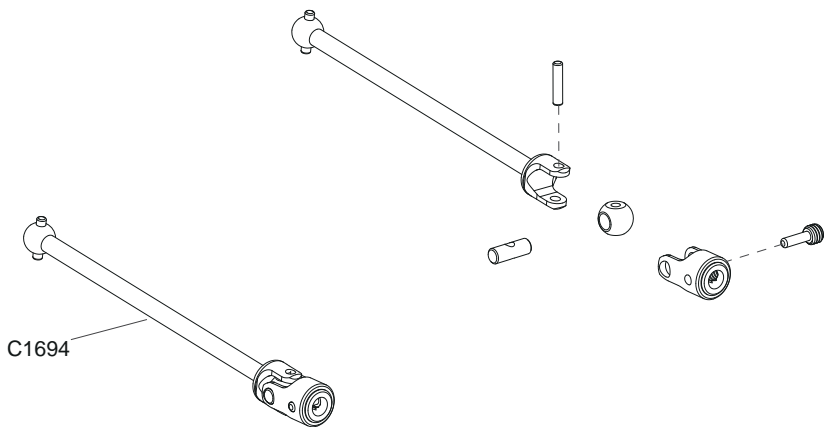
EN:Wheel Set

CN:车轮组

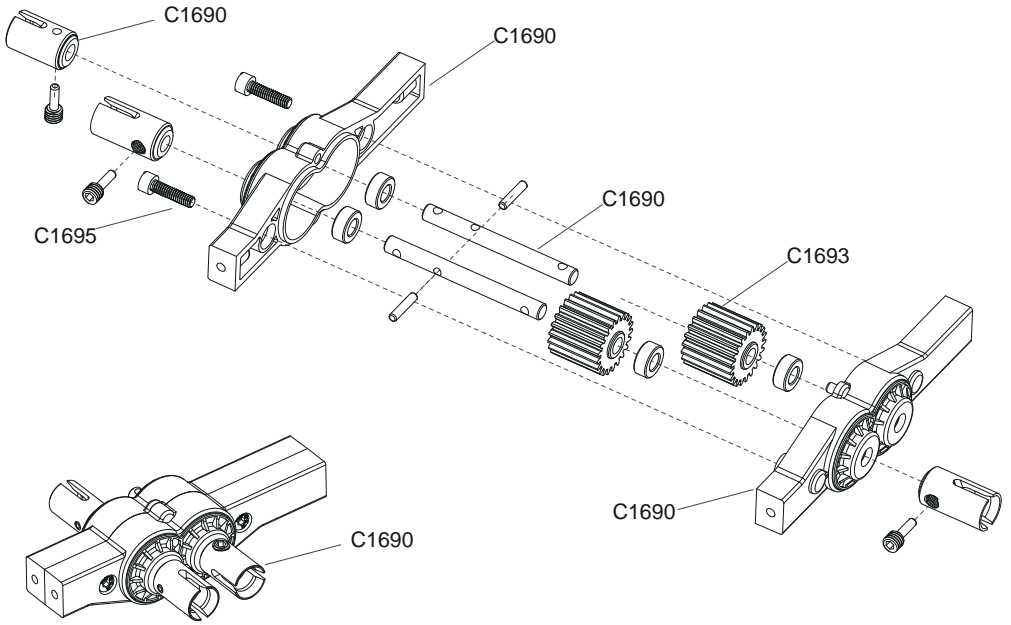


EN: CVD Transmission Shaft

CN:万向轴

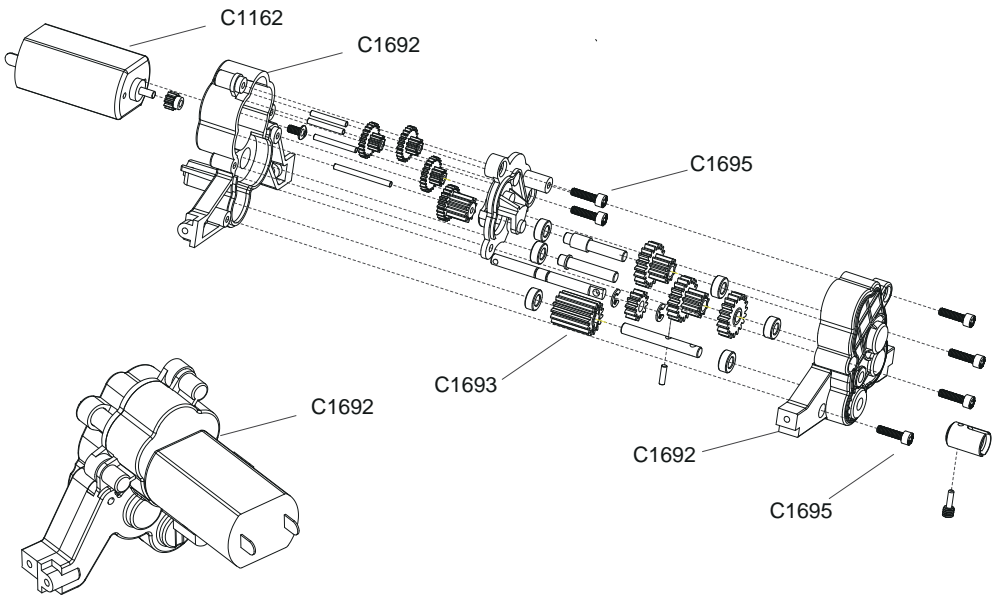


EN:Center Transmission Gear Box Assembly CN:中转牙箱成品



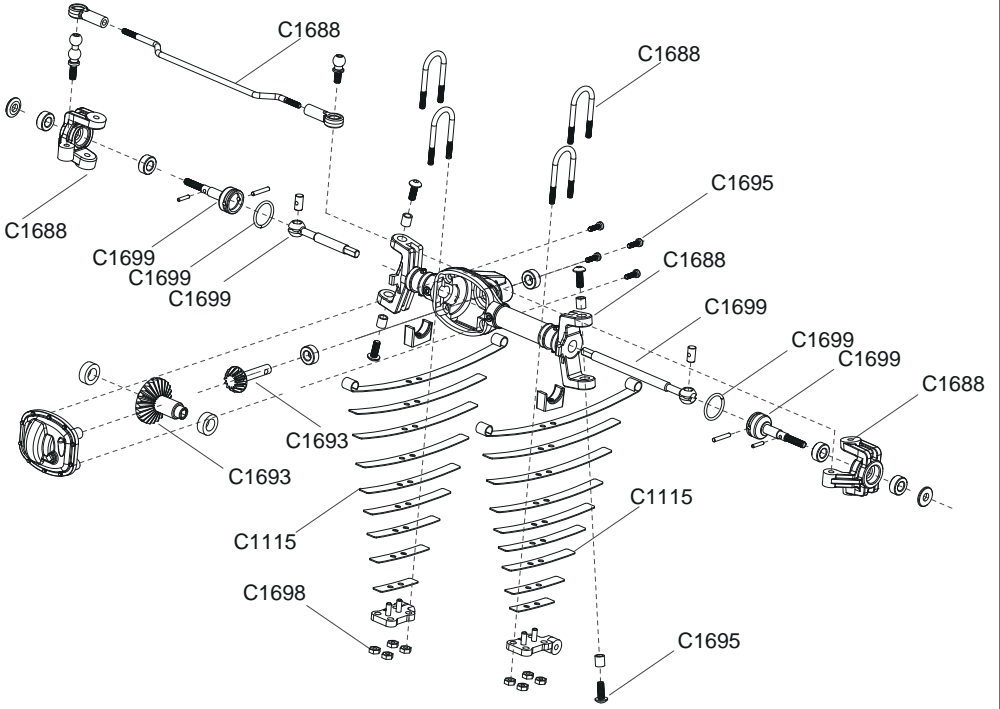
EN: Main Gear Box Assembly

CN:驱动牙箱总成



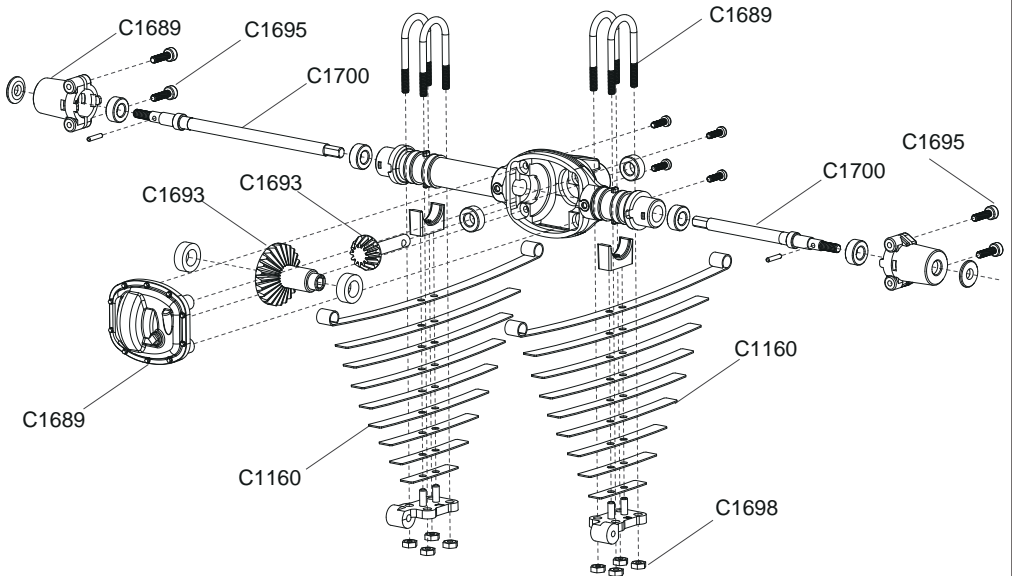
EN:Front axle

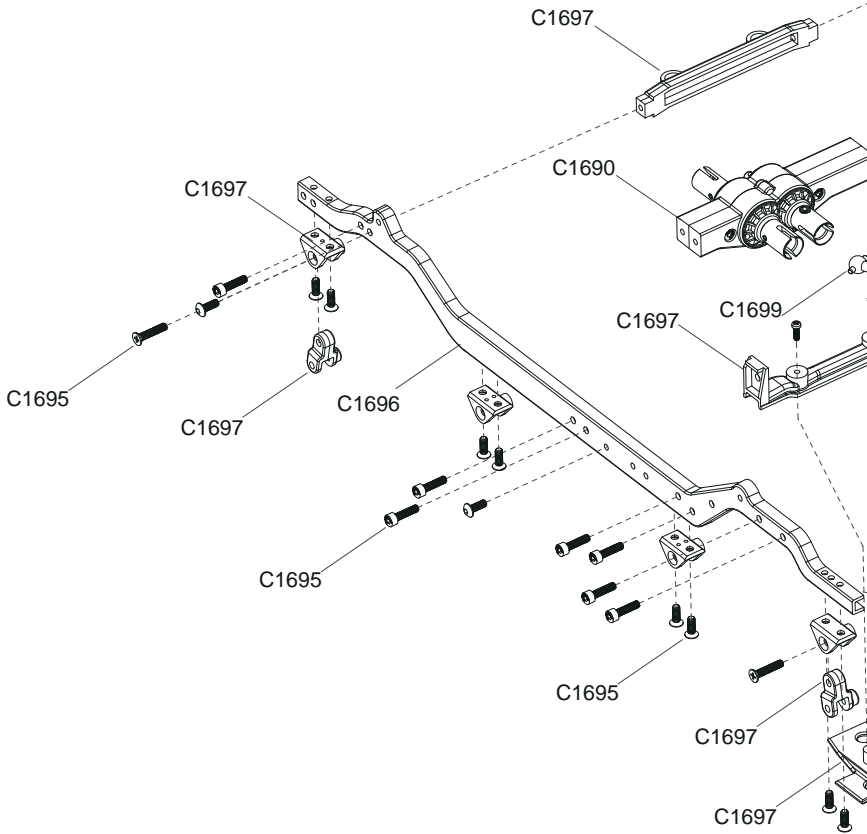
CN:前桥组

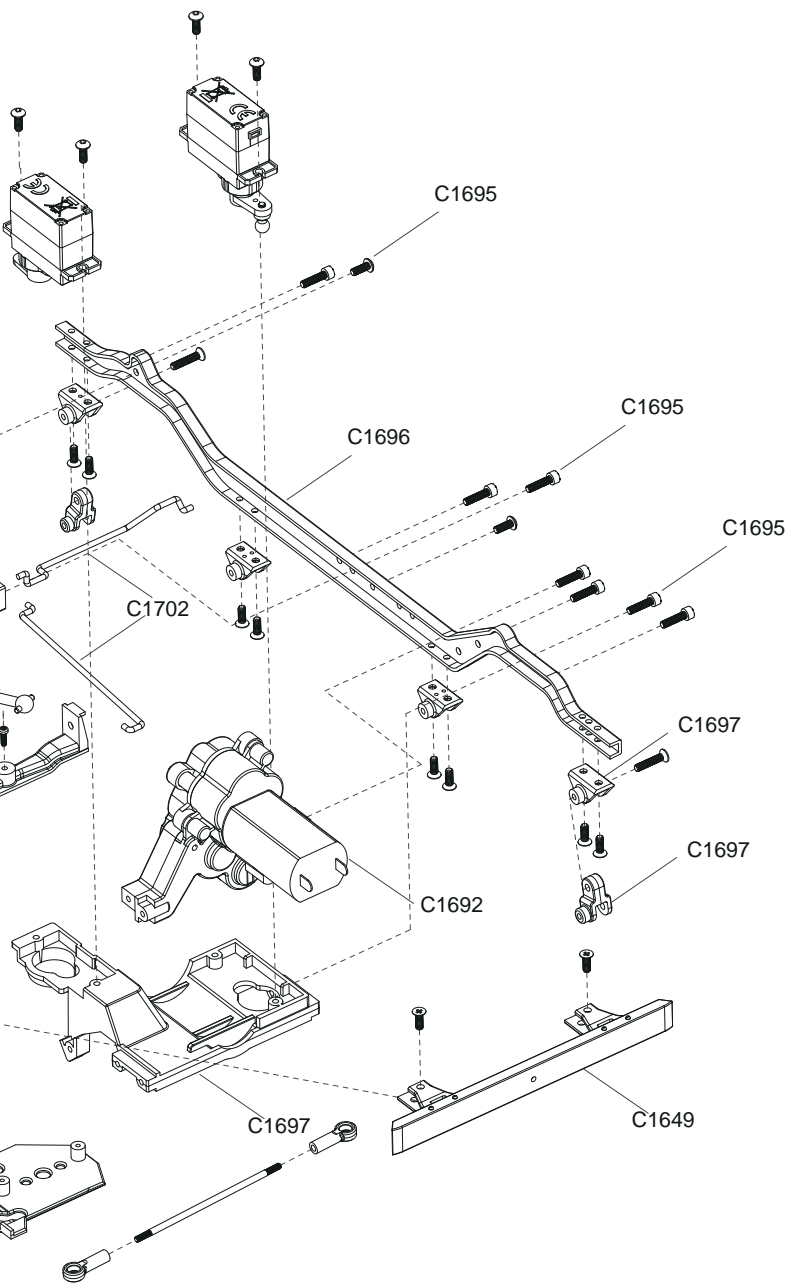


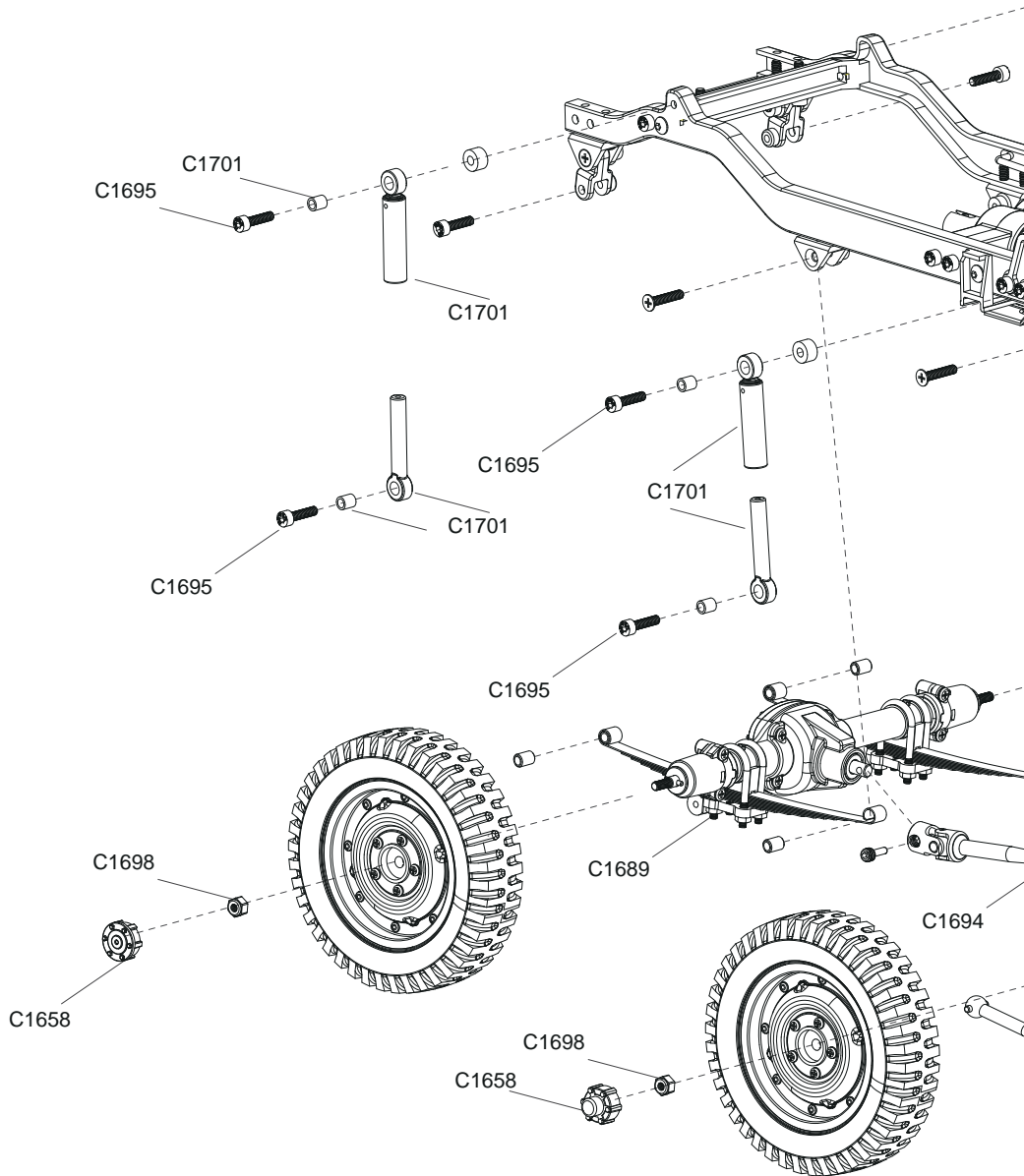
EN:Rear axle

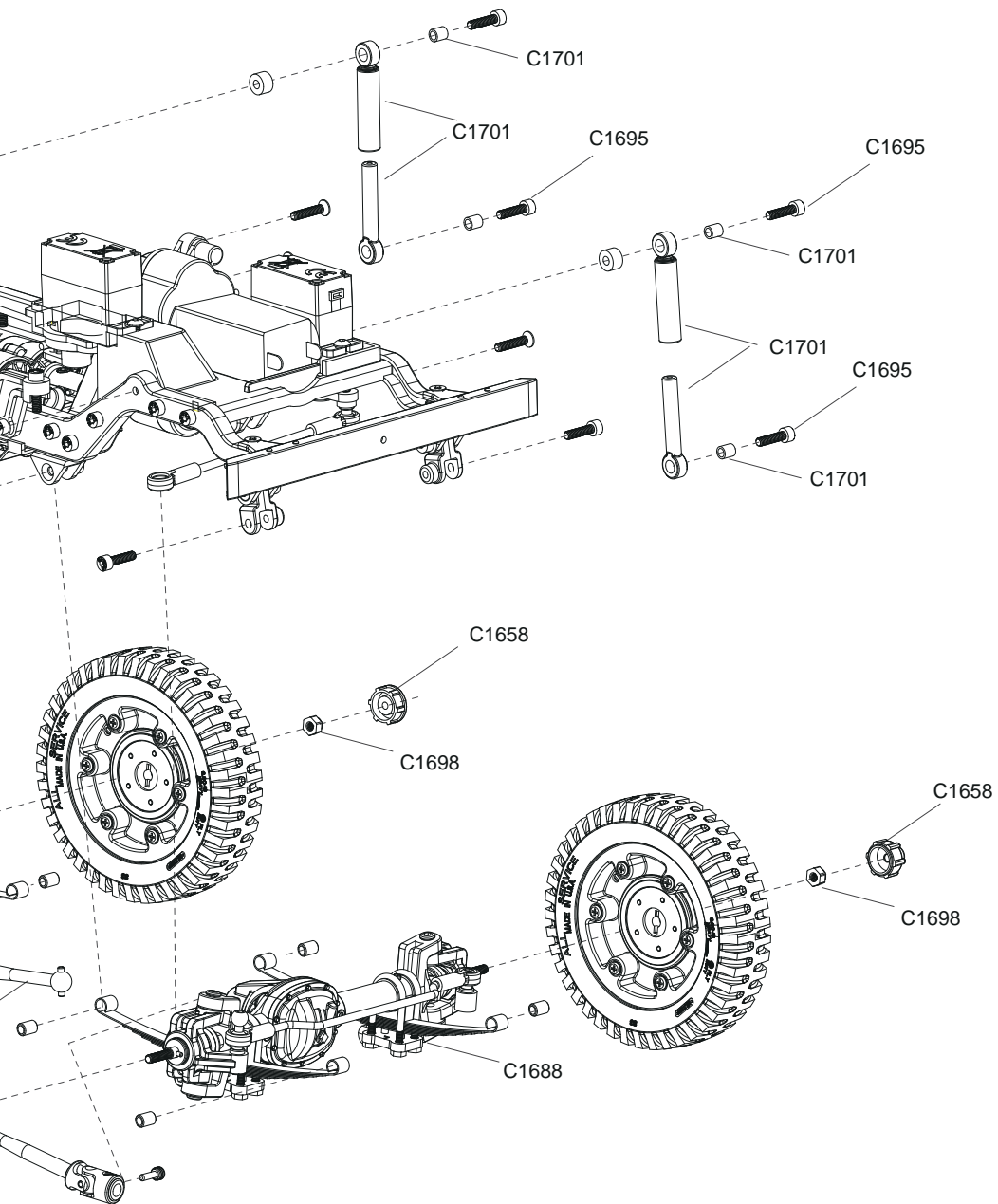
CN:后桥组



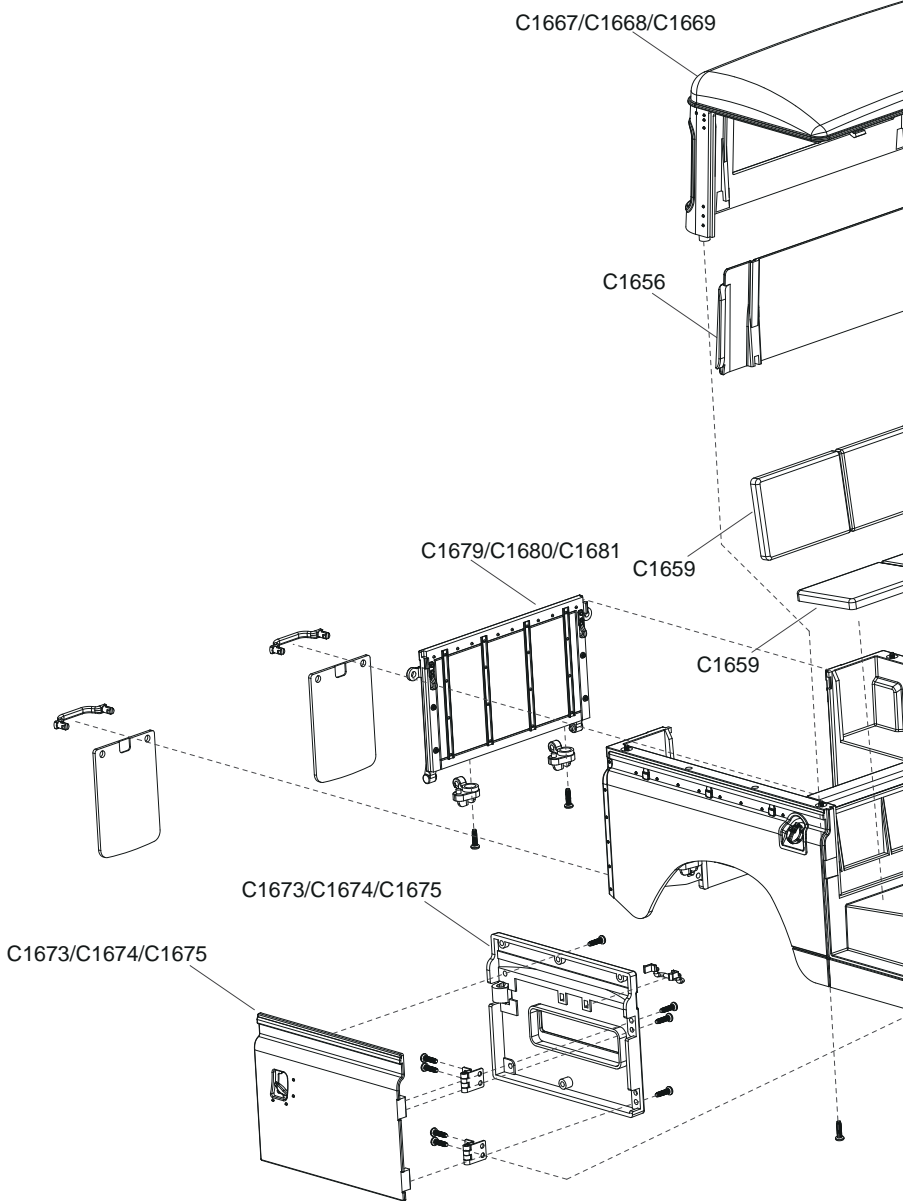




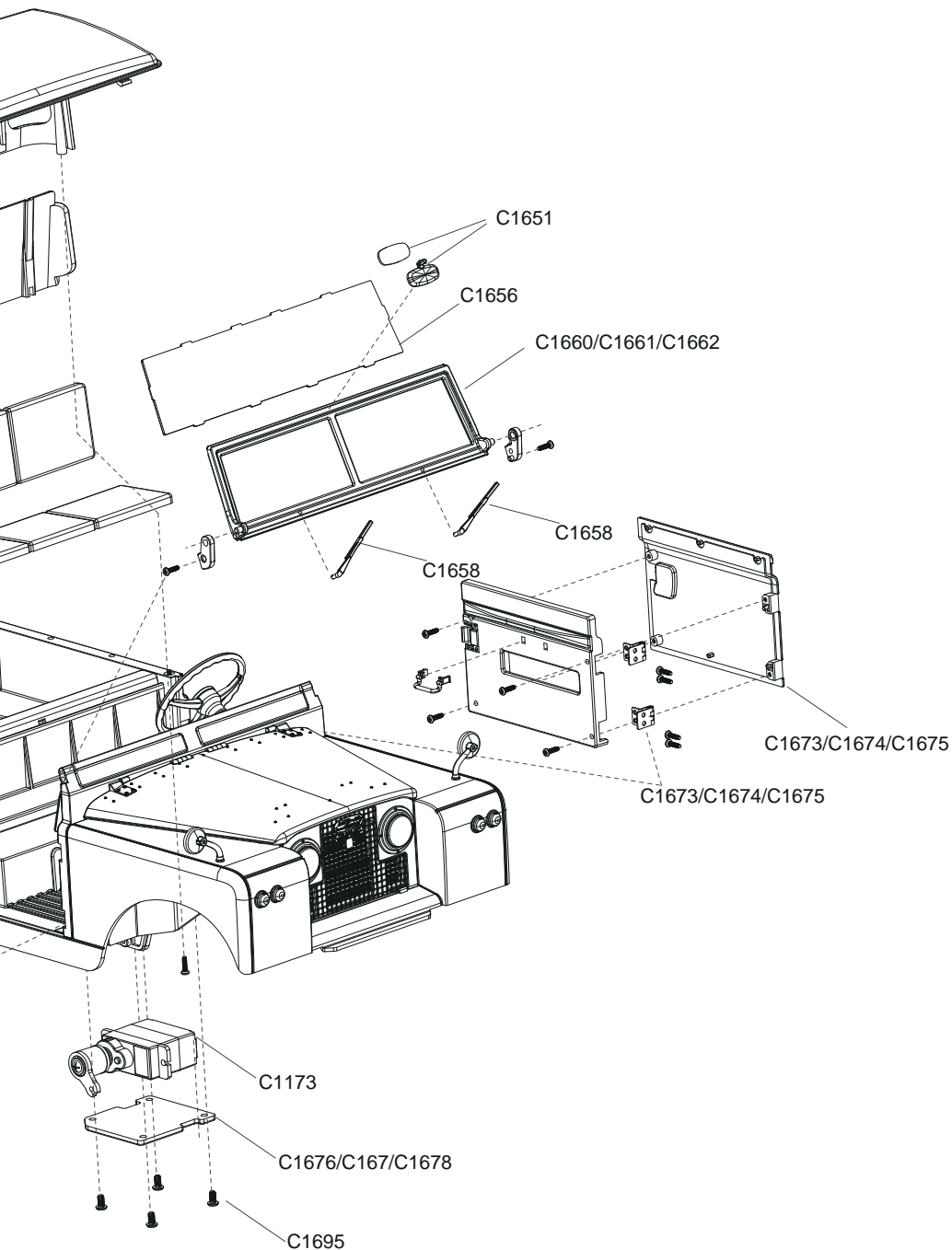




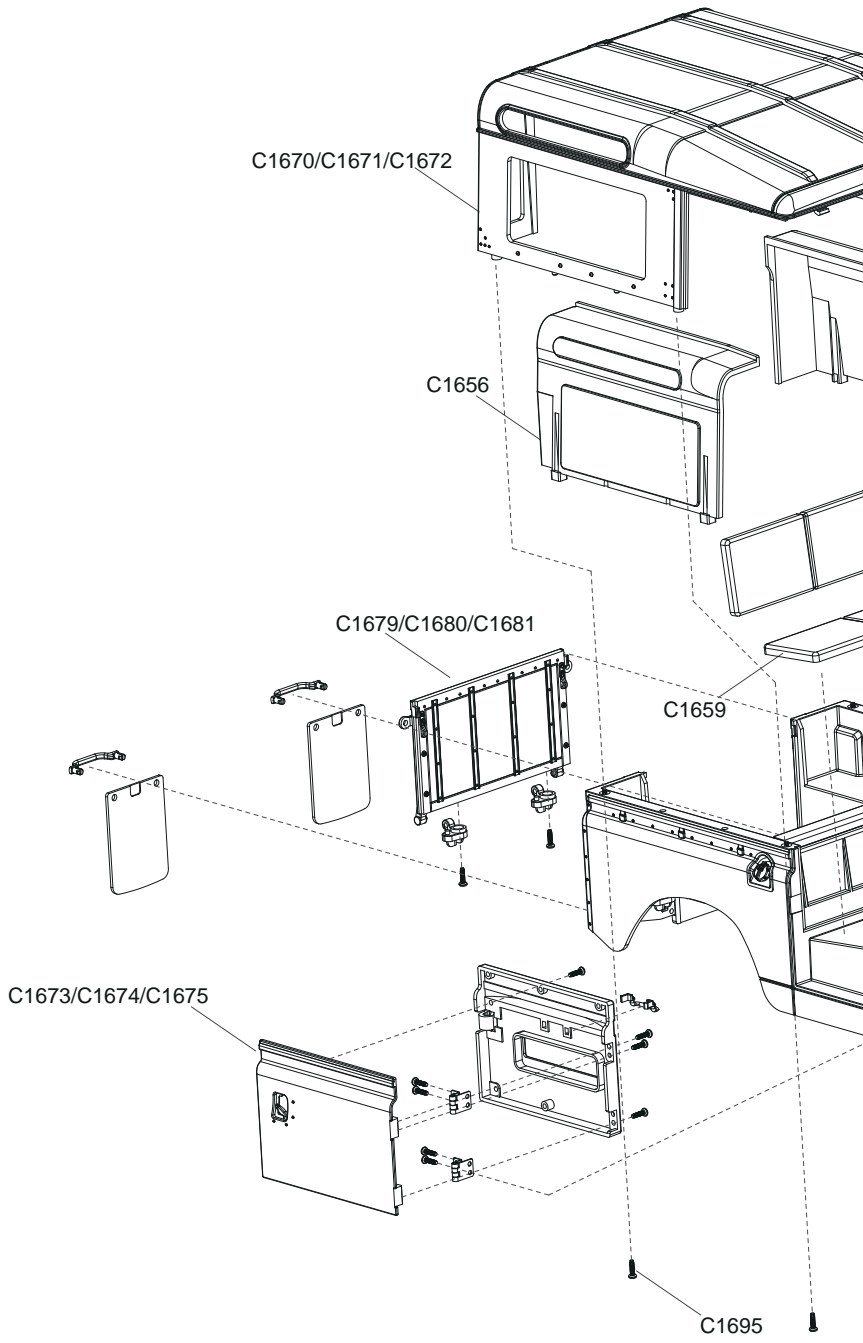
EN:Finished Hard Body Set(Hardtop Pickup)



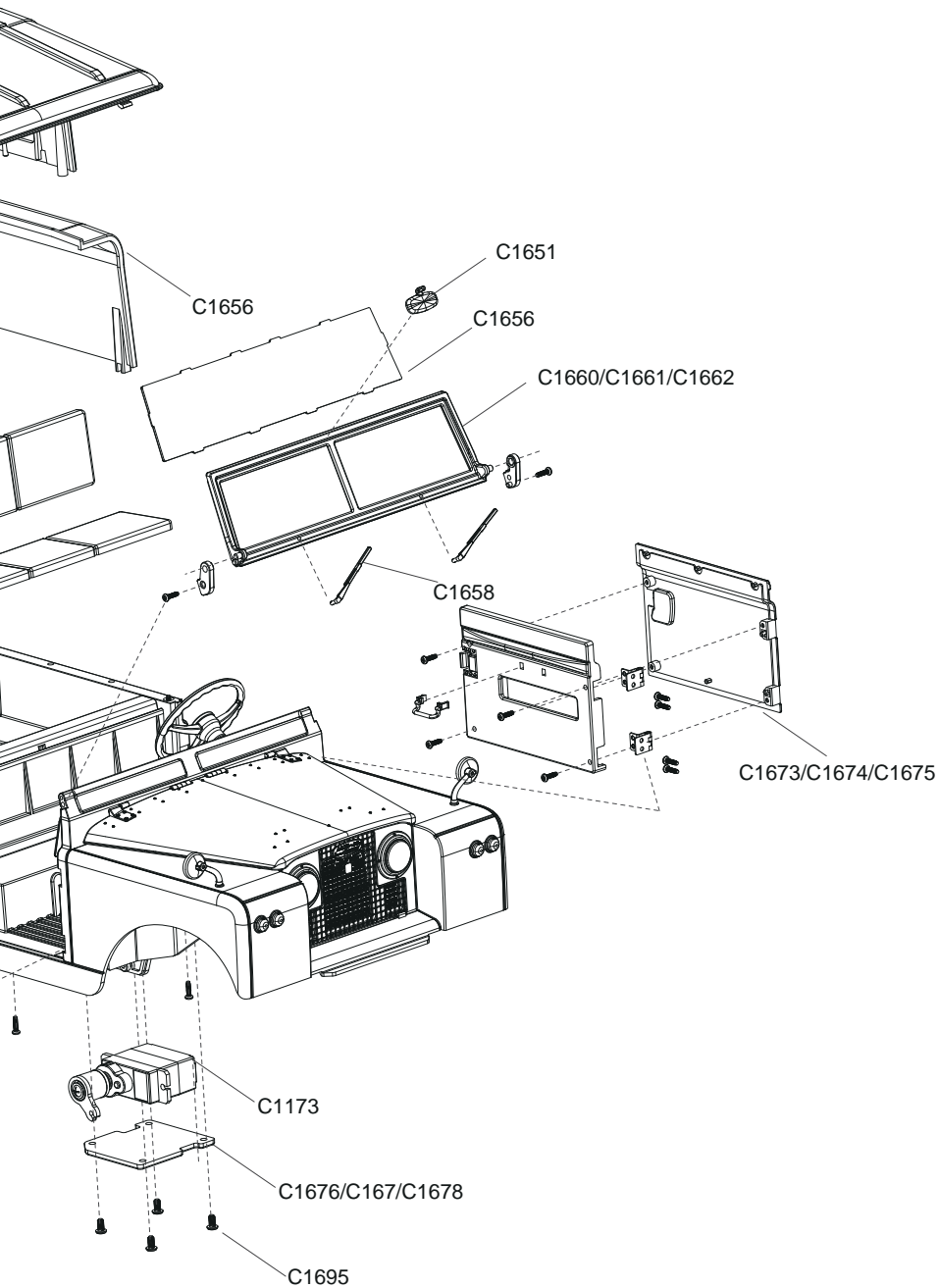
CN:车壳成品组 (短顶版)

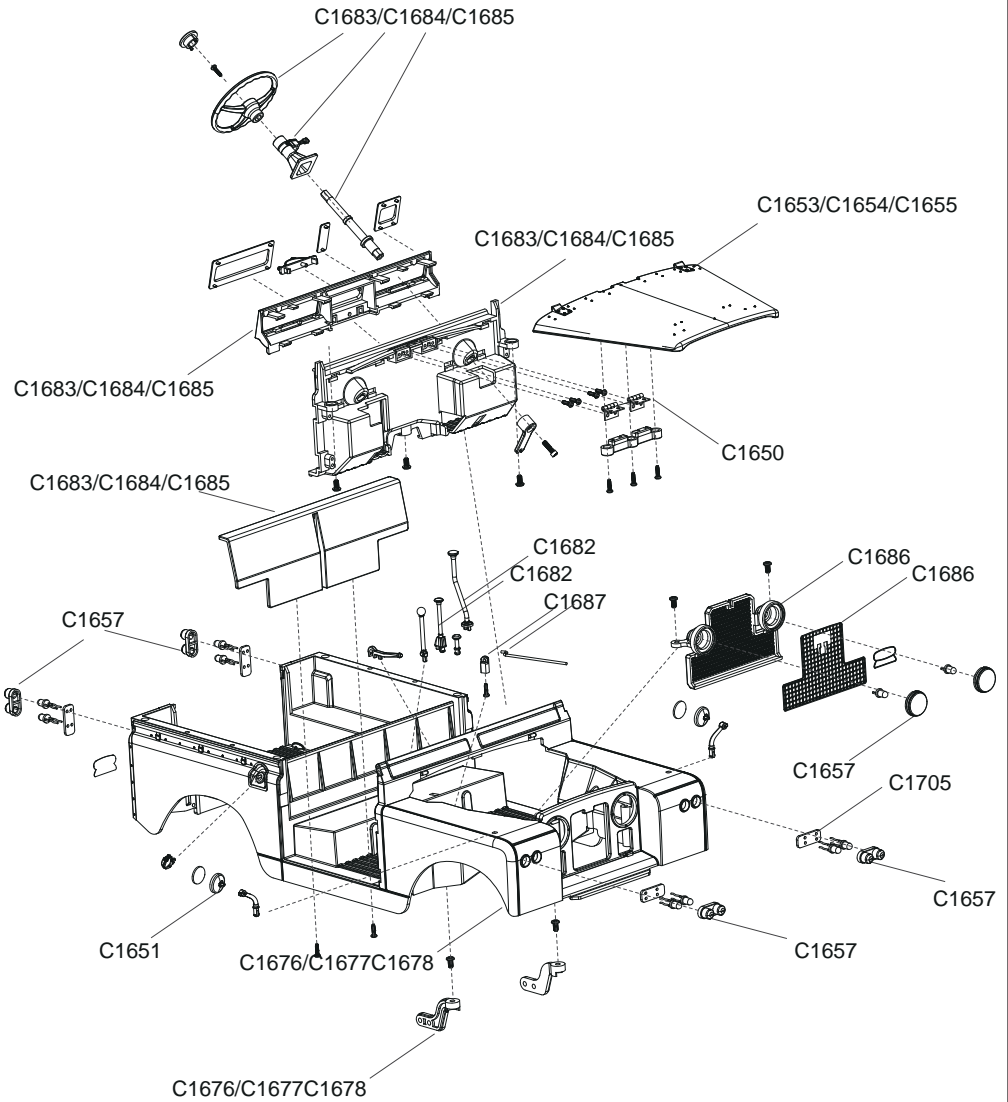


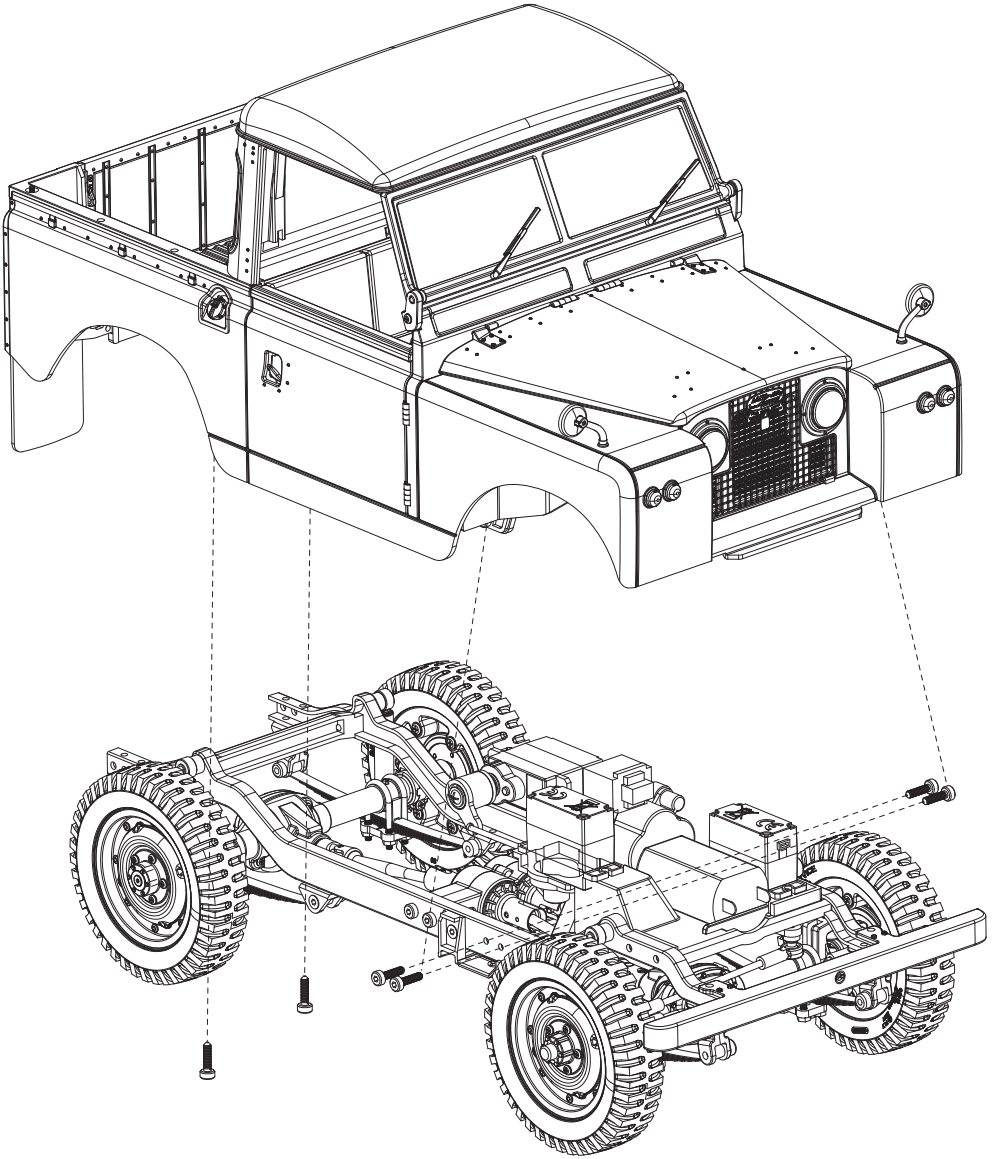
EN:Finished Hard Body Set (Hardtop Van)

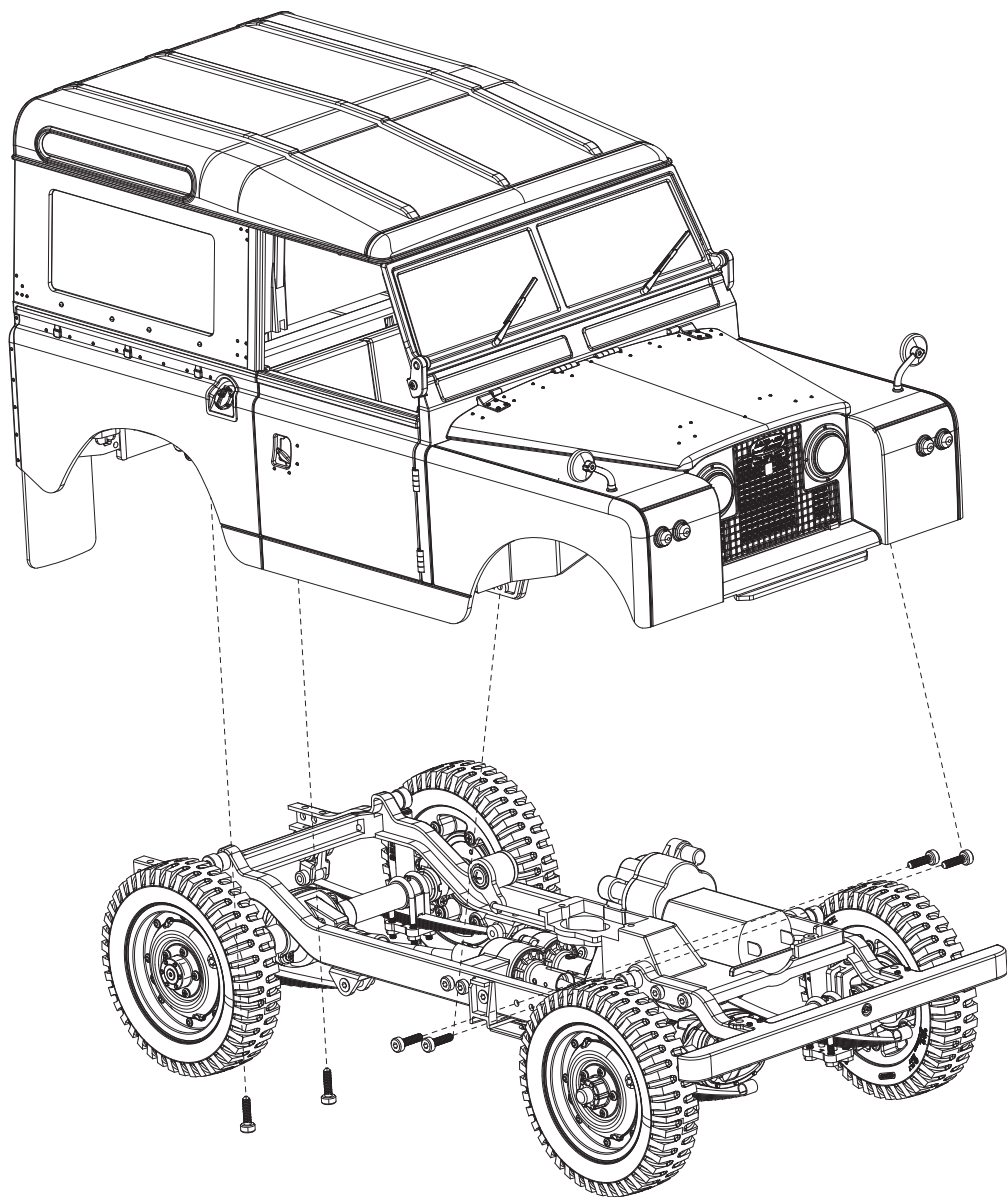


CN:车壳成品组(长顶版)









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