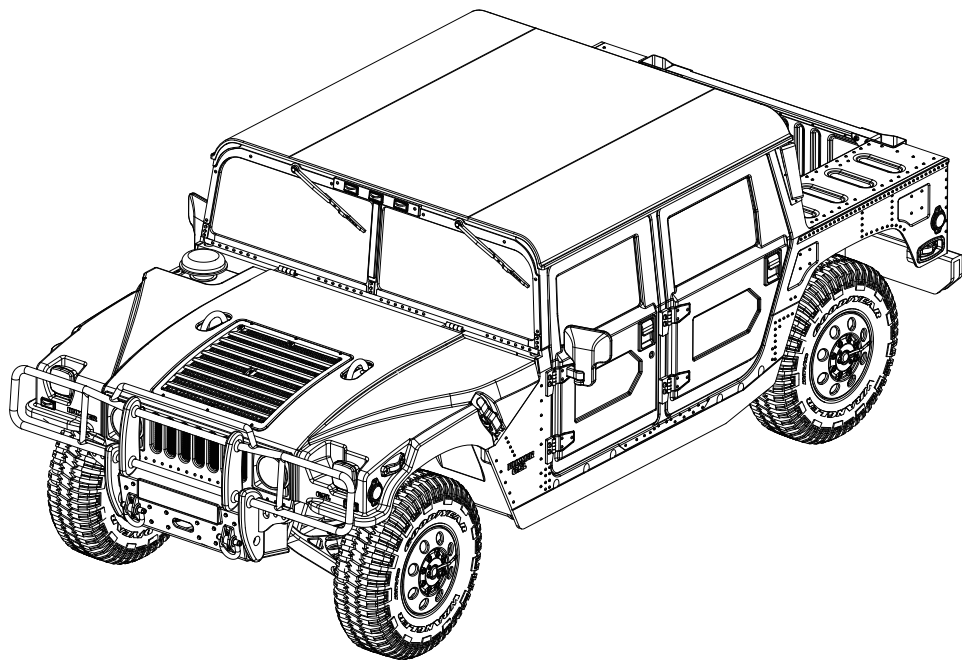




1:12 HUMMER H1



SAFETY PRECAUTIONS 安全保障措施

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, 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 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、无线电台、水域及不稳定地形。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，以免损坏。
- 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通电。断电方式：务必先将车断电再关遥控器。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。
- 遥控器电池电量不足时，不要操作模型车，以免失控。
- 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，如烤箱或暖器等。

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。



MADE IN CHINA

Certifications 认证相关

DoC Declaration DoC 自我说明

Hereby, we declare that the Radio Equipment [FMS-G7&FMS-R7A] is in compliance with RED 2014/53/EU.
特此，我们声明无线电设备【FMS-G7&FMS-R7A】符合 RED 2014/53/EU。

CE Warning CE 警告语

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.

发射机的天线必须距离所有人员或其他发射机至少 20 厘米的间隔距离。必须将天线安装说明和满足射频信号辐射的发射机操作规范提供给终端用户和安装人员。

Appendix 1 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. (Example use only shielded interface cables when connecting to computer or peripheral devices).

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, and
- (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. Move all your channels to the desired position.
2. 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.



FCC ID: N4ZMG400
FCC ID: 2A2UNR7A00

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。

 Attention 注意	Not following these instructions may lead to minor 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。
 Warning 警告	Not following these instructions may lead to major injuries. 如果不按照说明方法操作，可能导致操作者或他人遭受较大伤害。
 Danger 危险	Not following these instructions may lead to serious injuries or death. 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

- 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:
 - Near any site where other radio control activity may occur
 - Near power lines or communication broadcasting antennas
 - Near people or roads
 - 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.



Prohibited 禁止

- 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：
 - 基站附近或其他无线电活跃的地方
 - 人多的地方或道路附近
 - 有客船的水域
 - 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。

- 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.



Mandatory 强制

- 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规定进行操作。
- 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 the late 1970s, the U.S. Army proposed the development concept of a High Mobility Multi-purpose Wheeled Vehicle (or HMMWV for short), based on the Vietnam War experience.

The identified task was to replace a wide range of Jeeps and Trucks with a light off-road vehicle that could meet the requirements of all military units whilst also being able to achieve a high degree of modular maintenance, improved reliability, and at the same time also minimize logistical burdens and procurement costs.

AM General (AMG) finally won the contract with the army to manufacture such a vehicle in the face of very determined competition from sportscar company Lamborghini.

It was during "Operation Desert Storm" in the early 1990's that the vehicle first attracted worldwide attention – pictures of over 20,000 HMMWVs made up of more than 30 sub-models including ambulances, personnel carriers, anti-tank missile vehicles, etc., carrying American soldiers into battle, were spread all over global media, leaving countless vehicle fans and collectors fascinated.

After the war, AMG launched a civilian version of the HMMWV, officially named HUMMER. The first civilian HUMMER was the H1, and its owners included a number of celebrities such as boxers George Foreman and Mike Tyson, NBA superstar Cliff Robinson, and perhaps the most notable owner was none other than "The Terminator" himself Arnold Schwarzenegger.

The HUMMER H1 has won the favor of many tough guys due to its arrogant size, performance, and many unique variations. In order to improve stability, the 6,500cc V8 diesel engine adopts a front mid-mounted layout and is placed at the lowest point in the middle of the beam, with the driveshaft for the front axle running parallel to the side of the engine to output the power from the transfer case. By having the powertrain low in the centre of the vehicle it ensures that the HUMMER can still maintain high-speed maneuvering and stability even with its own weight being as high as 3 tons.

The portal axle drive system is very well hidden within the double-wishbone independent suspension system, which increases the ground clearance of the wide body to 410mm, making it possible to navigate all kinds of rough roads and terrain. When the front and rear differentials are locked, the powerful torque is fully released, and the low-speed climbing performance is even more impressive.

Over the years, a number of HUMMER H1 toys and RC vehicles have come to the marketplace but none have come close to truly embracing the same rugged build quality, attention to detail, or scale, until now!

和公子哥们在实验室和围场里打造的跑车不同，这些设计精巧的工艺品在人工修筑的平整道路上，或许可以称得上是“速度机器”，但在野外，脱离了精细的保养，在与大自然的摩拳中，她们显得孱弱而不堪。越野车大多是从战争中走来的硬汉，硬汉要走的路，往往没有路。

二十世纪70年代末，美国陆军根据越战经验，提出高机动性多用途轮式车辆（High Mobility Multi-purpose Wheeled Vehicle）研制概念，简称HMMWV。目的是用一款性能足以满足所有军事单位的轻型越野车取代型号繁多的吉普车和皮卡，实现高度模块化维修，提高出勤率，最大限度的降低后勤负担和采购成本。AM General(AMG)公司最终赢得订单。落败的是兰博基尼。

随后在全球瞩目的“海湾战争”中，2万辆30多种子型号（包括救护车、运兵车、反坦克导弹车等）的HMMWV搭载美国大兵冲锋陷阵的强悍形象，通过媒体在全世界传播，使得众多军事迷、车迷、越野迷、收藏家魂牵梦索。战争结束后，AMG公司顺势推出民用版HMMWV，正式命名为HUMMER，中文译名“悍马”取了谐音，但又贴切的概括了这台车的气质，“悍不畏死的烈马”。第一款民用悍马就是悍马H1。她的车主有无敌拳王福尔曼，更加无敌的拳王泰森，NBA巨星克里夫·罗宾逊，以及“终结者”阿诺德·施瓦辛格。

能够赢得众多硬汉青睐，悍马H1凭借的是嚣张的性能和诸多独一无二的设计，为了提高稳定性，6,500cc的V8柴油发动机采用前中置布局，放到大梁中间最低处，而传动轴不得不从发动机侧面绕过去才能将来自分动箱的动力输出到前轴。这是悍马高达3吨的自重却依然可以保持高速机动的前提。门式车桥在双叉臂独立悬挂系统里隐藏得极好，将宽大车身的离地间隙提升至410mm，各种崎岖路面履险如夷，当锁死前后差速器后，强大扭矩完全释放，低速攀爬性能更是不遑多让。作为一款经典越野车，市面上各类悍马玩具模型众多，但没有任何一款可以还原实车设计精髓。

About Model 产品介绍

The FMS HUMMER H1 RC model is the next in a line of high-detail scale vehicles from FMS Model and, true to the real vehicle it is based on, it follows all the above designs.

Power comes from a 370 motor hidden inside the scale engine casing. However, the gearbox need not be hidden as these gear assemblies operate within the gearbox housing. Two servos are positioned one either side of the motor and respectively control both the switch between high and low speed gears and the operation of the transfer case, thus switching between rear drive and four-wheel drive. Power from the transfer case is transmitted to front and rear axles via a pair of metal driveshafts. Both the front and rear differentials also have a differential lock function, each driven by a servo which can be locked by remote control.

Four metal drive shafts transmit power at each corner of the vehicle from the differential to the reduction gear assembly, commonly known as a "portal axle".

As well as the vehicle coming standard with metal drive shafts, it also has a full metal gear-set and 47 ball-bearings.

The rear wheel steering was originally an upgrade reserved for the planned follow-up model HUMMER EV. We have included it as an additional hidden function of the HUMMER H1, so you now have a total of 4 steering modes! The extra mode, which can reduce the steering radius by 50%, is ideal in confined spaces and is sure to further improve the driving pleasure of this beautifully recreated scale vehicle.

The FMS HUMMER H1 is a very high detail remote control scale model. The faithful reproduction of both the chassis structure and the accurate reproduction of the drivetrain are just the beginning.

In order to satisfy the most critical of scale enthusiasts in both the hobby, and the scale RC industry, attention to detail of this model throughout was paramount – this even extended to the perfectly recreated interior. The HUMMER H1 uses a front mid-engine layout just like the real vehicle, and in order to facilitate maintenance, the hood is designed to be flipped forward. When flipping the hood up, the front bumper must also be flipped forward at the same time to avoid damage.

The hood catch was also recreated 1:12 scale and stamped out of 0.4mm sheet metal. When the hood is opened, in addition to the V8 engine, you can also see the 7-channel receiver and battery, all of which is easily accessible.

As a light off-road vehicle carrying 4 people, the Hummer's 2197mm width is no different from that of a general medium-sized truck.

The FMS HUMMER H1 4 doors can all be opened, and the smart door lock mechanism is a separate unit. By opening the doors, you gain access to the fantastically detailed interior that features 4 soft rubber seats, perfectly prepared for 1/12 moveable figures. The cabin also features a highly detailed dashboard and moving steering wheel that turns with the main steering. The roof is also removable, allowing the scale enthusiast to set up figures or simply view the interior. Derived from the bloodline of the Hummer, which can be traced back to the Willis gene, the windshield can be lowered forward, which is convenient for the attachment of various military weapons, or simply to achieve that more rugged and wild look.

The body of the Hummer is mainly made of aluminum alloy and fiberglass, and the fixing method is riveting, so there is no doubt that the whole body is covered with rivets. Hence, on the FMS model, the "rivets" are of course restored to the extreme. The Scale enthusiasts said that there should be lights – so there are lights: headlights, fog lights, turn signals, marker lights, tail lights, reversing lights, brake lights, with all lights able to be operated via the remote control.

PRODUCT INTRODUCTION 产品信息

A 2.4G 7CH digital proportional radio system, a receiver/ ESC/ light control three-in-one unit, 7 servos (including 13g metal gear servo x 2pcs) in charge of front and rear wheel steering, front and rear wheel differential locks, high and low speed shifting, 2/4 wheel drive switching and steering wheel linkage.

Unlike the common scale crawlers on the market, this is a very high-detail RC crawler that comes complete with a full scale chassis structure and drivetrain system, and an exquisite scale interior with full door function. With the insistence of "perfect appearance, excellent performance", the FMS Hummer H1 is presented as it should be – a no compromise "work of art" scale vehicle that is sure to be one for collectors and enthusiasts alike!

FMS设计制作的悍马H1遥控模型将为您呈现上述所有功能。动力是隐藏在发动机仿真外壳内的一颗370电机，变速箱则无需隐藏，因为这些齿轮组件就在“变速箱”外壳内运转。电机的两侧布置了两颗舵机，分别控制高低速档位，和后驱/四驱的切换。金属传动轴链接分动箱和前后差速器。前后差速器都具备差速锁止功能，分别由一颗舵机驱动，可一键遥控锁死。四根CVD传动轴将动力从差速器传递到轮边减速器上，俗称“门桥”。全车标配金属传动轴、金属齿轮及47颗滚珠轴承。后轮辅助转向本是为后续车型HUMMER EV预留的，作为悍马H1的隐藏功能，可提供4种转向模式，在狭窄环境下将转向半径缩小一半，驾驶乐趣提升不止一倍。

FMS的悍马H1的定位是高仿真遥控模型，底盘结构的忠实还原和机械运动原理的呈现只是基础，面对最“挑剔”的玩家，更要具备精细的内饰和准确的外观。悍马H1采用前中置引擎布局，为便于维修，引擎盖采用向前翻开的设计，翻起的同时，前保险杠必须同步向前翻倒，引擎盖的锁扣被缩小12倍后，以0.4mm的金属片冲压而成。打开引擎盖除了可以看到V8发动机之外，还能看到7通道接收机和电池舱，一切设定、电池更换，“盖”莫能外。

作为载员4人的轻型越野车，悍马2197mm的车宽和一般中型卡车无异，FMS悍马4扇车门可以打开开不必说，精巧的车门锁尤其值得单独推荐。驾驶舱内除了详细的仪表以外，还有FMS特有的方向盘联动功能，4个软胶座椅是为1/12的动人偶准备的。欢迎各路人偶厂牌与我们跨界联动。车顶移除后，可以非常方便的布置人偶或欣赏内饰，源自悍马可以上溯自威利斯基因的血脉，风挡可以向前放倒，在军事上方便布置各种武器，在民用车辆上更显粗犷豪放。

悍马的车身主要由铝合金和玻璃纤维制成，固定方式是铆接，所以全身布满铆钉，在FMS的模型上，全车的铆钉自然是“纤毫毕现”。粉丝说要有关，于是有了灯，车头大灯、雾灯、转向灯、示宽灯、尾灯、倒车灯、刹车灯一应俱全，可遥控切换多种灯光效果。

2.4G 7通道数字比例遥控系统，接收机、电调、灯控三合一，2颗13g金属齿转向舵机。5颗9g塑胶舵机分别掌管、前后轮锁差、高低速换挡、二/四驱切换以及方向盘联动。

不同于市场上常见的攀爬车，这是一台同时具备仿真底盘机械结构、精美内饰，具备全开门功能的遥控模型车，一台动静皆宜的模型车。以“精于静 精于动”的执念，演出模型车本该有的样子。

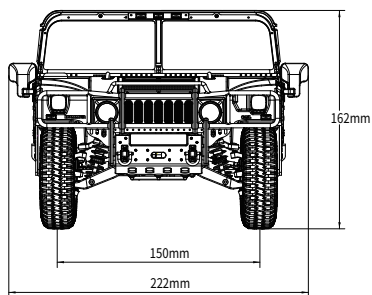
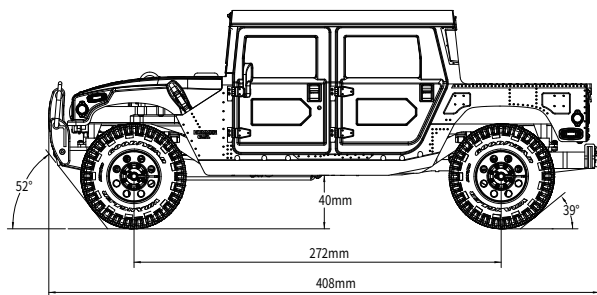
Features 产品特点

- Chassis, Interior, Appearance full simulation remote control Hummer H1 model;
- Portal axle;
- Remote differential lock;
- Ball bearings x47;
- Two speed transmission;
- 2WD-4WD switching;
- Metal driveshaft for the whole vehicle;
- Metal gear for the whole vehicle;
- Hidden function 4WS;
- Bumper can be folded forward;
- The hood can be opened and has a metal locking mechanism;
- Windshield can be folded forward;
- Both side doors (4) can be opened;
- Scale movable door lock mechanism;
- Tailgate can be opened;
- Roof can be removed;
- Full car simulated rivets;
- Exquisite interior;
- Soft rubber seats;
- Remote control steering wheel linkage
- LED lights x 20pcs
- 9g servo x 5, 13g metal gear servo x 2
- 370 Brushed motor
- 2.4GHz 7CH radio system
- Reserve winch drive control system

PRODUCT INTRODUCTION 产品信息

- 底盘、内饰、外观全仿真遥控悍马H1模型
- 门式车桥
- 遥控差速锁
- 滚珠轴承×47
- 高低速换挡
- 二/四驱切换
- 全车金属传动轴
- 全车金属齿轮
- 隐藏功能4WS
- 保险杠可向前翻折
- 引擎盖可以打开并配有金属锁扣
- 风挡可向前放倒
- 左右4扇车门可以打开
- 车门锁机构真实可动
- 尾门可以打开
- 车顶可以移除
- 全车铆钉刻画
- 精美内饰
- 软胶座椅
- 遥控联动方向盘
- LED灯×20pcs
- 9g小型舵机×5，13g小型金属齿轮机×2
- 370有刷电机
- 2.4GHz 7通道遥控系统
- 预留绞盘驱动控制系统

Specification 产品参数



- Length: 408mm
- Width: 222mm
- Height: 162mm
- Wheelbase: 272mm
- Tire F/R : $\Phi 78 \times 25\text{mm}$
- Approach Angle: 52°
- Departure Angle: 39°
- Minimum Ground Clearance: 40mm
- Motor: 370 Brushed motor
- Remote control distance: 30m
- Approx. operating duration time: 20mins
- Remote control: G7 + R7A Transmitter receiver set
- 车长: 408mm
- 车宽: 222mm
- 车高: 162mm
- 轴距: 272mm
- 轮胎: $\Phi 78 \times 25\text{mm}$
- 接近角: 52°
- 离去角: 39°
- 离地间隙: 40mm
- 电机: 370有刷电机
- 遥控距离: 30m
- 续航: 20mins
- 遥控: G7 + R7A 发射接收套装

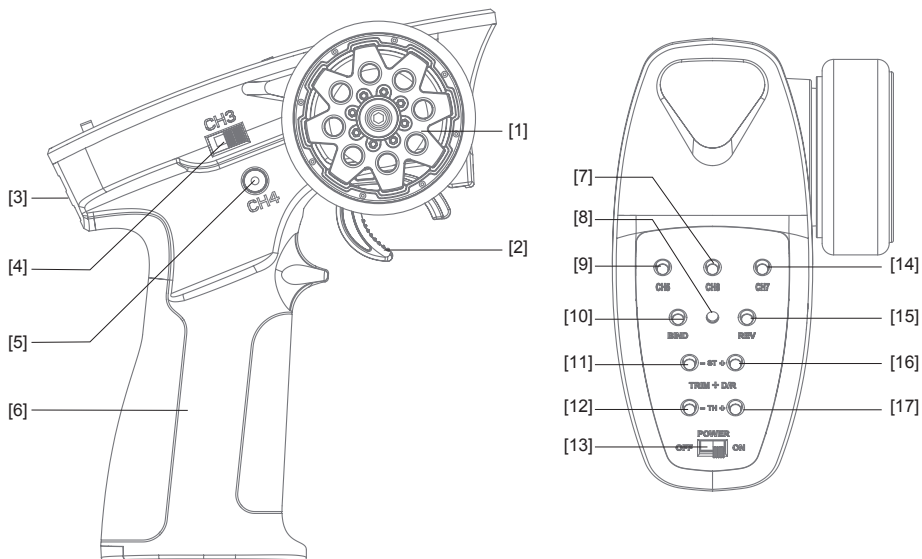
Transmitter instruction 发射机概览

Transmitter instruction 发射机介绍

The product adopts the 2.4GHz ANT Automatic Frequency Hopping Digital System which consist of FMS-G7 transmitter and FMS-R7A receiver. It supports two-way transmission, featuring 7-channel and compatible with variety of car models.

本系统采用 2.4GHz AFHDS 2A-BS 协议，由 FMS-G7 发射机和 FMS-R7A 接收机组成。支持双向传输、共输出 7 个通道、兼容多种车模型。

Transmitter instruction 发射机概览



[1] Steering Wheel CH1

方向手轮 CH1

[2] Throttle Trigger CH2

油门扳机 CH2

[3] Lanyard Eye

挂绳孔

[4] Three-position Switch CH3

(To switch fast-/slow-position servo)

三档开关 CH3 (切换快慢档舵机)

[5] Button CH4 (To switch car light mode)

复位按键 CH4 (切换车灯控制模式)

[6] Handle (AAA*4 batteries can be installed inside)

手柄 (内可安装 AAA*4 电池)

[7] Button CH6 (To enable/disable differential lock function)

复位按键 CH6 (开启或关闭差速锁功能)

[8] LED

指示灯

[9] Button CH5 (To switch four-wheel steering)

复位按键 CH5 (切换四轮转向)

[10] BIND Button

BIND 按键 (对码)

[11] ST- Button (To decrease the trim and travel value of CH1 or CH5)

ST- 复位按键 (减小 CH1 或 CH5 微调 and 舵量)

[12] TH- Button (To decrease the trim and travel value of CH2)

TH- 复位按键 (减小 CH2 微调 and 舵量)

[13] Power Switch

电源开关

[14] Button CH7 (To enable/disable the winch function)

复位按键 CH7 (开启或关闭绞盘功能)

[15] REV Button (To reverse the CH1, CH2 or CH5)

REV 复位按键 (控制 CH1、CH2 或 CH5 方向)

[16] ST+ Button (To increase the trim and travel value of CH1 or CH5)

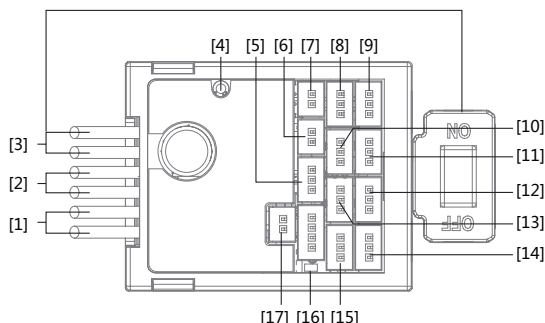
ST+ 复位按键 (增加 CH1 或 CH5 微调 and 舵量)

[17] TH+ Button (To increase the trim and travel value of CH2)

TH+ 复位按键 (增加 CH2 微调 and 舵量)

Transmitter instruction 发射机概览

Overview 接收机概览



[1] Motor Interface (3.5bullet interface)
电机接口 (3.5子弹头接口)

[2] XT30 Interface of the Battery
电池XT30接口

[3] Power Switch
开关盒

[4] Antenna
天线

[5] Left Light Interface + Right Light Interface
左转灯+右转灯

[6] Fog Light Interface
雾灯

[7] Fog Light Interface
雾灯

[8] Headlight Interface + Right Light Interface
前灯+右转灯

[9] Headlight Interface + Left Light Interface
前灯+左转灯

[10] CH6 Rear Differential Lock Servo
CH6后差速锁舵机

[11] CH4 Drive Switching Servo
CH4驱动切换舵机

[12] CH3 Fast-/slow-position servo
CH3快慢换挡舵机

[13] CH6 Front Differential Lock Servo
CH6前差速锁舵机

[14] CH1 Front-wheel steering Servo
CH1前轮转向舵机

[15] CH5 Rear-wheel steering Servo
CH5后轮转向舵机

[16] Fog Light Interface + Brake Light Interface
+ Backup Light Interface
雾灯+刹车灯+倒车灯

[17] CH7 Winch Motor Servo
CH7绞盘电机

The LED Status of the Receiver 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.

Light 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 receiver 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。

Interface 接口

All the servos' interfaces and the car light interface are 1.25 mm standard pins, and the motor interface is PH2.0 female interface. They are for connecting the receiver to each terminal part of the model.

所有接口均为 1.25 mm 的标准端子座，用于连接接收机与模型各个终端部件。

Transmitter instruction 发射机概览

Antenna 接收机天线

It is an external antenna.

本接收机天线为外置单天线。



Caution
小心

Do not pull the antenna of the receiver. Do not tie the antenna and the servo cable together.
不要拉扯接收机的天线，也不要将天线和舵机连接线绑在一起。



Note
警告

Do not put the antenna close to the metal materials, because this will affect the signal strength of the receiver. Keep the receiver's antenna at least 1cm away from conductive materials such as carbon or metal.

接收机天线需远离导电材料，例如金属棒和碳纤维物质。为避免影响正常工作，请确保接收机天线和导电材料之间至少有 1cm 以上的距离

Getting Started 使用前准备

Transmitter Antenna 发射机天线

The transmitter has a built-in antenna. When the transmitter starts to work, the antenna automatically operate, without additional operations.

本发射机天线为内置天线，发射机开始工作，天线自动工作，无需单独进行操作！

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,

Pay attention to the following when installing the receiver:

1. Make sure the receiver is not installed near ESCs or other 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，同时确保接收机的性能和遥控距离的稳定，并防止外界干扰，

安装过程中请注意以下事项：

1. 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。
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。

Installing Transmitter Battery 发射机电池安装



Danger
危险

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



Danger
危险

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



Danger
危险

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



Danger
危险

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

Getting Started 使用前准备



Danger
危险

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



Danger
危险

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



Danger
危险

Do not use the battery if damaged.
如果电池损坏，请立即停止使用。

Battery Type: AAA

Follow the steps below to install the batteries:

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

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

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

Operation Guide 操作指引

Power-on 开机

Follow the steps below to turn on the transmitter:

1. Check to make sure that the batteries are fully charged and installed correctly.
2. Toggle the Power Switch to the [ON] position, and the LED will be solid on.
3. Connect the receiver to power.

Note: 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，确电池电量充足并正确安装；
2. 将开关拨到 [ON] 位置，指示灯常亮；
3. 接接收机通电。

注：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通电



Caution
小心

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。

The LED Status of the Transmitter 指示灯

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

Off: The transmitter is not powered on.

Fast flashing: The transmitter is in the bind mode.

Slow flashing: Low voltage alarm

Gradual: The transmitter is in Sleep mode or in Idle alarm state.

Three-flash-one-off: The transmitter is in standby state, while the bound receiver is powered off, unbound, or no signal.

发射机状态指示灯用于指示发射机的电源及工作状态。

灭：发射机电源未接通。

快速闪烁：发射机处于对码状态中。

慢速闪烁：低电压报警。

呼吸灯闪烁：发射机处于休眠模式或闲置报警状态。

三闪一灭：发射机处于待机状态，但对码的接收机未开机、已关机或掉码。

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 put the transmitter into bind mode. Meanwhile the LED will flash quickly, and release the bind button.
2. The receiver will power on and wait for 1 second, if without connection, it will enter the binding state automatically;
3. The receiver's LED is solid on, indicating the binding is successful.

4. Check to make sure the transmitter and receiver functions are working correctly, repeat steps 1 to 3 (binding process) if any problems arise.

Note: 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，请按照下述步骤重新对码。本发射机支持双向传输，对码步骤如下：

1. 按住发射机的 BIND 键，并将 POWER 键拨至 [ON] 位置，发射机即进入对码状态，此时发射机机指示灯快闪，松开对码键；
2. 接收机通电进入对码状态；
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：若十秒内对码没有完成，接收机 LED 指示灯进入慢闪状态。

Stick Calibration 摇杆校准

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

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

1. Turn and hold the wheel clockwise to the max travel point and push the throttle forwards as far as possible, then turn on the transmitter. It will enter calibration mode. The buzzer sounds shortly in cycle for prompt.
2. Turn the steering wheel to max and min travel point in clockwise and counterclockwise. Then push/pull the trigger to forward/backward as far as it will go. The wheel and trigger go back to the neutral position. Once calibration is finished by press the bind key to save and exit.
 - If the calibration is completed successfully, the transmitter will exit calibration mode by pressing BIND button, meanwhile the buzzer will prompt with one short beep, and afterwards, the transmitter is in standby mode with the LED in three-flash-one-off state.
 - If the calibration is failure, the transmitter can not exit the calibration mode by pressing BIND button.

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. 将发射机手轮顺时针打到最大，前推油门扳机至最大，并将 POWER 键拨至 [ON] 位置，即进入摇杆校准模式（指示灯常亮），蜂鸣器短响一声循环提示；
2. 将手轮和扳机行程打到最大和最小后，回至中位位置。然后按 BIND 键保存并退出校准模式。
 - 若校准成功按 BIND 按键可退出校准模式，蜂鸣器短响一声循环提示，随后发射机进入待机模式（指示灯三闪一灭）；
 - 若校准未通过，按 BIND 按键无效，即不能退出校准模式。

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.

请按照以下步骤关机：

1. 断开接收机电源；
2. 将 POWER 键拨到 [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 7 channels, the function assignment and settings are as follows.
该发射机共输出 7 个通道，功能分配及设置如下：

Channel 通道	Assigned Control 已分配的控件	Function 功能
CH1	Steering Wheel 方向手轮	Streeing 方向
CH2	Thottle Trigger 油门扳机	Thottle 油门
CH3	Three-position switch CH3 三档开关 CH3	Fast-/slow-position servo channel. Toggle the control to switch between fast-position and slow-position. 快慢档舵机通道。 拨动控件切换快档和慢档。
CH4	Button CH4 复位按键 CH4	Output the CH4 value or switch the car light mode. Press for more than 2S to output the CH4 value. Press the control to switch the car light mode. 输出 CH4 通道值或切换车灯模式。 长按≥ 2S 输出 CH4 通道值；短按控件切换车灯模式。
CH5	Button CH5 复位按键 CH5	Four-wheel steering switching channel Used to set the wheels for controlling vehicle steering, i.e. front wheel steering, front and rear wheels steering in the reverse direction, front and rear wheels steering in the same direction, and rear wheel steering only. Suitable for partial crawlers with steering on both front and rear wheels. Switch to one state when pressing the control once. By default, it is the front wheel steering. 四轮转向切换通道。 用于设置控制车辆转向的车轮，即前轮转向、前后反向、前后同向和仅后轮转向四。适用于前后轮均带转向的部分攀爬车类型。每按控件一次切换一种状态。默认前轮转向。
CH6	Button CH6 复位按键 CH6	Differential lock servo channel. Enable/disable the differential lock function Press the control to enable/disable the differential lock function. 差速锁舵机通道，开启关闭差速锁功能。 短按控件开启或关闭差速锁功能。
CH7	Button CH7 复位按键 CH7	Enable/disable the winch function By default, it is disabled. Support the stretch or stop the winch. After pressing ON, press ST +/- button to change the winch operating speed. There are three levels in increasing/decreasing the speed respectively. You can choose the appropriate speed and the level as required. After the function is enabled, the winch function will be automatically shut down if you do not press the ST +/- button within 3 minutes. 开启 / 关闭绞盘功能。（绞盘另购） 默认关闭。支持收放或停止绞盘。短按开启后，按 ST +/- 键改变绞盘运行速度，增大速度或减低速度各设有三档，可根据实际情况选择合适的速度调节档位。 开启功能后，超过 3 分钟未按 ST +/- 键，绞盘功能将自动关闭。

Channel Reverse

通道反向

- To reverse the output direction of the channel.
- When the steering wheel is located in the maximum travel or minimum travel, press the REV kutton to reverse CH1. When you press once, it switches once.
 - When the throttle trigger is at the maximum or minimum travel and the steering wheel is in the neutral position at the same time, press the REV button to reverse CH2. When you press once, it switches one channel. When the reverse action of the channel takes effect, the buzzer will sound shortly for prompt.
 - When CH5 is set to rear wheel steering only, press the REV button to reverse CH5.
- 该功能用于调整通道的动作方向。
- 方向手轮位于最大行程或最小行程时，按 REV 按键可使通道 1 反向，按一次切换一次；
 - 油门扳机位于最大行程或最小行程时，同时方向手轮位于中位时，按 REV 按键可使通道 2 反向，按一次切换一次。通道反向动作生效时，蜂鸣器短响一声提示；
 - 当 CH5 通道设置为仅后轮转向模式时，按 REV 按键可使通道 5 反向。

Trim Setting 微调

To adjust the trim value of the channel.

- When the steering wheel is in the neutral position, press the ST+/- button to adjust CH1 trim.
- When the throttle trigger is in the neutral position, press the TH+/- button to adjust CH2 trim.
- When CH5 is set to rear wheel steering only, press the ST+/- button to adjust CH5 trim.

ST+: Increase the trim value. ST-: Decrease the trim value. Trim range: -150 us – 150 us; the step is 5us; by default, it is 0.

When the trim setting action takes effect, the buzzer will sound shortly for prompt. If you press and hold it, the value remains changes continuously. The buzzer will sound twice for prompt when the trim is across the neutral position.

Note: If the winch function is enabled, the trim remains unchanged when operating the ST+/- button.

该功能用于调整通道微调。

- 当方向手轮位于中位时，按 ST+/- 按键，可调整通道 1 微调；
- 当油门扳机位于中位时，按 TH+/- 按键，可调整通道 2 微调；
- 当 CH5 通道设置为仅后轮转向模式时，按 ST+/- 按键，可调整通道 5 微调。

ST+：增大微调值，ST-：减少微调值，微调调节范围：-150us~150us，调节步进为 5us，默认为 0。

微调设置动作生效时，蜂鸣器短响一声提示，长按快速调节，微调过中位时，蜂鸣器响两声提示。

注：若绞盘功能处于开启状态下，操作 ST+/- 按键时微调保持不变。

D/R Setting 舵量调节

To adjust the travel range value of the channel.

- When the steering wheel is located in the maximum travel or minimum travel, press the ST+/- button to adjust CH1 travel value.
- When the throttle trigger is at the maximum or minimum travel, press the TH+/- button to adjust CH2 travel value.
- When CH5 is set to rear wheel steering only, press the ST+/- button to adjust CH5 travel value.

ST+: Increase the travel value. ST-: Decrease the travel value. Travel range: 0-120%, by default, it is 100%, the step is 5%.

When the travel setting action takes effect, the buzzer will sound shortly for prompt. If you press and hold it, the value remains changes continuously. The buzzer will sound long for prompt when reaching the endpoint.

Note: If the winch function is enabled, the trim remains unchanged when operating the ST+/- button.

该功能用于调整通道的舵量。

- 方向手轮位于最大行程或最小行程时，按 ST+/- 按键，可调节通道 1 舵量；
- 当油门扳机方向手轮位于最大行程或最小行程时时，按 TH+/- 按键，可调节通道 2 舵量；
- 当 CH5 通道设置为仅后轮转向模式时，按 ST+/- 按键，可调节通道 5 舵量。

ST+：增加舵量值，ST-：减小舵量值，调节范围：0-120%（默认 100%），步进为 5%。

舵量设置动作生效时，蜂鸣器短响一声提示，长按快速调节，舵量至终点时，蜂鸣器长响一声提示。

注：若绞盘功能处于开启状态下，操作 ST+/- 按键时舵量保持不变。

Failsafe Setting 失控保护

The failsafe function is used to protect the model and personnel when the receiver is out-of-control.

By default, the receiver will keep outputting the last channel value in case of out-of-control.

- When the transmitter is in normal working state, press and hold the BIND button for 3S to start the failsafe function. The current channel value is set as the failsafe value. The buzzer will sound long for prompt after the setting is successful.

Note: When the transmitter binds with a receiver once more, the failsafe setting will restore to default setting.

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。

该发射机默认未设置时接收机通道保持最后输出。

- 开机正常状态下，长按对码按键 3S 触发失控保护设置，将当前的通道值作为失控保护值。动作设置成功时，蜂鸣器长响一声提示。

注：重新对码时恢复默认设置。

Reset Data 数据复位

This function is used to restore the transmitter function parameters to their default values.

- Press and hold the BIND key and REV key of the transmitter, and turn the POWER key to the [ON] position to restore the data, and the buzzer will beep for a long time.

Note: Fail-safe settings, code matching information and joystick calibration data are not reset

此功能用于将发射机功能参数恢复为默认值。

- 按住发射机的 BIND 键和 REV 键后，并将 POWER 键拨至 [ON] 位置，即恢复数据，蜂鸣器长响一声提示。

注：失控保护设置、对码信息和摇杆校准数据不复位

Idle Alarm 闲置报警

The transmitter will go into idle alarm state when there is no operation over 10 minutes.

- When the transmitter is in idle alarm state, the transmitter LED is in gradual light state, the buzzer sounds twice quickly in cycle for prompt. Operations of any control on the transmitter will cancel the alarm, as a result of the exit of the idle alarm state.

当发射机未操作时间大于 10 分钟时，即进入闲置报警状态。

- 在此状态下，发射机指示灯为呼吸灯闪烁状态，蜂鸣器循环快响两声提示；操作发射机上的任意控件将解除并退出闲置报警状态。

Sleep Mode 休眠模式

When the transmitter has been in idle alarm state over 2 minutes, it will enter the sleep mode.

- In this mode, the transmitter LED is in gradual light state, the buzzer is off and the RF is off. The transmitter is not responsive in case of operations of any control. To exit the sleep mode, power off the transmitter and restart it.

当发射机处于闲置报警状态时间大于 2 分钟时，即进入休眠模式。

- 在此模式下，发射机指示灯为呼吸灯闪烁状态，蜂鸣器关闭，RF 关闭，操作任意控件发射机都无响应。必须关闭电源重启发射机才能退出休眠模式。

Low Voltage Alarm 低电压报警

When the transmitter voltage has lower than 4.2V, it will enter the low voltage alarm state.

- When the transmitter is in low voltage alarm state, the transmitter LED will be in gradual status and will sound shortly for prompt the buzzer.

Note: The RF is off when the batteries voltage is lower than 3.5V for the model's and the system's safety.

当发射机电池电压低于 4.2V 时，即进入低电压报警状态。

- 在此状态下，发射机指示灯为慢闪状态，蜂鸣器短响一声循环提示。

注：为保护系统和模型的安全，电池电压低于 3.5V 时，无线系统将停止工作。

System Functions 系统功能

Offline Prompt 离线提示

When the transmitter is in normal state, once it detects the bound receiver has turned off, or disconnected over 2S, the transmitter LED will be in three-flash-one-off state for prompt.

Note: When the transmitter received the information of the bound receiver again, it will exit the offline prompt state.

当发射机在正常工作状态下，检测到已对码的接收机未开机、已关机或掉码时间大于 2S 时，发射机指示灯三闪一灭提示。

注：若收到已对码的接收机回传信息后，即退出离线提示状态。

FMS-R7A Function Instructions FMS-R7A 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.
- 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.
- 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。
- 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 has low voltage protection and overheating protection function.

Low voltage protection: When the voltage of the receiver is lower than 6.4V, all channels have no output. All car lights flash promptly.

Overheating protection: When the internal temperature of the ESC is detected to exceed 110℃ for 2S, CH2 motor channel has no output, the other channels output normally. And the normal output will be restored when the temperature is lower than 70℃.

本款接收机具有低压保护和过热保护功能。

低电压保护：接收机电压低于 6.4V 时，所有通道无输出，所有车灯慢闪提示。

电调保护功能：过热保护，当接收机温度超过 110℃ 且持续时间达到 2S 时，CH2 马达通道关断无输出，其它通道正常输出，温度低于 70℃ 时马达恢复正常输出。

Car Light Control 车灯控制方式

All car lights will be on for 1S when the receiver is powered on.

This receiver is preset with five modes for controlling model car lights. When the transmitter connects to the receiver normally, press CH4 button to change the working mode. One mode per press: Default Mode, Mode A, Mode B, Mode C and Mode D are switched in turn.

Note: When every time the transmitter is turned on, the mode of the car light control is default mode.

Light mode is as below:

接收机通电开机瞬间所有车灯长亮 1S 做自检显示。

车灯有五种工作模式。在发射机与接收机正常通信状态下，短按发射机 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 依次循环切换。

注：每次开机都为默认模式。

车灯工作模式如下表所示：

FMS-R7A Function Instructions FMS-R7A 功能说明

Car Light 车灯	Default mode 默认模式	Mode A 模式 A	Mode B 模式 B	Mode C 模式 C	Mode D 模式 D
Left light 左转向灯	Always off 常灭	Flashing slowly while turing left 左转时慢闪		Continous flashing slowly 持续慢闪	Flashing slowly while turing left 左转时慢闪
Right light 右转向灯	Always off 常灭	Flashing slowly while turing right 右转时慢闪		Continous flashing slowly 持续慢闪	Flashing slowly while turing right 右转时慢闪
Headlight 前大灯	Always off 常灭	Solid low-light 常亮（低亮）	Solid high-light 常亮（高亮）		Always off 常灭
Brake light 刹车灯	High-light when braking, otherwise off 刹车时高亮 非刹车时灭	High-light when braking, otherwise in low-light state. 刹车时高亮，非刹车时低亮			High-light when braking, otherwise off 刹车时高亮，非刹车时灭
Backup light 倒车灯	High-light when reversing, otherwise off 倒车时高亮，非倒车时灭				
Fog light 雾灯	Always off 常灭			Solid on 常亮	

- Notes:
1. The set mode is not save, that is, when every time the transmitter is turned on, the mode of the car light control is default mode.
 2. Mode C is the emergency light state.
 3. Steering CH1 and throttle CH2 can automatically identify the neutral position, that is, when the channel values of CH1 and CH2 are detected to be near the neutral position during power-on, the detected channel value will be regarded as the neutral value for controlling the car lights.

- 注：
1. 设置的模式关机后不保存，每次开机都为默认模式；
 2. 模式 C 为应急灯工作状态；
 3. 方向 CH1 和油门 CH2 可自动识别中位，即通电时检测到 CH1、CH2 的通道值在中位附近时，则将自动检测到的通道值当做控制车灯的中位值。

Idle Alarm setting 闲置报警

When the receiver detects that the transmitter channel value has not changed for more than 10 minutes, it will enter the idle alarm state.
In this state, the vehicle headlights and taillights (including brake light and backup light) are fast flashing alternatively for alerts.
When the receiver detects the channel value has changed or has connected with the transmitter again, it will exit the idle alarm state.

当接收机检测到发射机通道值超过 10 分钟未变化时，即进入闲置报警状态。
在此状态下，车子前大灯和后尾灯（包括刹车灯和倒车灯）交替快闪提示。
注：当接收机接收到发射机通道值变化或与发射机重新建立连接时即退出闲置报警状态。

Sleep Mode 休眠模式

When the receiver has been in idle alarm state over 2 minutes, it will enter the sleep mode.
In this mode, all channels have no output, and all car light are off.

Note: When the receiver detects the channel value has changed or has connected with the transmitter again, it will exit the sleep mode.

当接收机处于闲置报警状态时间大于 2 分钟时，即进入休眠模式。
在此模式下，所有通道无输出，且所有车灯常灭。

注：当接收机接收到发射机通道值变化或与发射机重新建立连接时即退出休眠模式。

Offline Prompt 离线提示

When the receiver has bound with the transmitter, once it detects the bound transmitter has turned off, or disconnected over 2S, all car lights will flashing slowly for prompt.

Note: When the receiver has connected with the transmitter again, it will exit the offline prompt state.

当接收机与发射机完成对码后，检测到对码的发射机已关机或掉码时间大于 2S 时，车子左右车灯同步慢闪提示。

注：当接收机与发射机重新建立连接时即退出离线提示状态。

R7A Specifications FMS-R7A 产品规格

Transmitter Specifications 发射机规格

- Product Model: FMS-G7
- Compatible Receivers: FMS-R7A
- Compatible Models: 1:12\1:10 simulation cars, climbing cars
- Number of Channels: 7
- RF: 2.4GHz ISM
- Maximum Power: < 20dBm (e.i.r.p.) (EU)
- 2.4G Protocol: AFHDS 2A-BS
- Distance: >100m (Ground distance without interference)
- Resolution: 1024
- Input Power: 6V DC or 1.5AAA*4
- Working Current: 10mA (static) ; 120mA/6V (dynamic)
- 产品型号：FMS-G7
- 适配接收机：FMS-R7A
- 适配模型：1:12、1:10 仿真或攀爬模型车
- 通道个数：7
- 无线频率：2.4GHz ISM
- 发射功率：< 20dBm
- 无线协议：AFHDS 2A-BS
- 遥控距离：>100m (空旷无干扰地面距离)
- 通道分辨率：1024 级
- 输入电源：6V DC 或 1.5AAA*4
- 工作电流：10mA (静态) ; 120mA/6V (动态)
- Charging Port: No
- Low Voltage Alarm: < 4.2V
- Antenna: Built-in single antenna
- Data Port: No
- Temperature Range: -10℃ ~ +60℃
- Humidity Range: 20% ~ 95%
- Online Update: No
- Color: Black
- Dimensions: 118*73*145mm
- Weight: About 130g
- Certification: CE, FCC ID: N4ZMG400
- 充电接口：无
- 低电压报警：< 4.2V
- 天线类型：内置单天线
- 数据接口：无
- 温度范围：-10℃~+60℃
- 湿度范围：20%~95%
- 在线更新：无
- 发射机颜色：黑
- 外形尺寸：118*73*145mm
- 机身重量：130g 左右
- 认证：CE, FCC ID：N4ZMG400

Receiver Specifications 接收机规格

- Product Model: FMS-R7A
- Compatible Transmitters: FMS-G7
- Compatible Models: 1:12\1:10 simulation cars, climbing cars
- Number of Channels: 7
- Number of Lights: 6
- RF: 2.4GHz ISM
- 2.4GHz Protocol: AFHDS 2A-BS
- Input Power: 2S Lithium batteries
- Continuous / Peak Current: 20A/80A
- BEC Output: 5V/1A
- Maximum Power: < 20dBm (e.i.r.p.) (EU)
- Distance: >100m (Ground distance without interference)
- Antenna: External antenna
- Data Output: PWM
- Resolution: 1024
- Temperature Range: -10℃ ~ +60℃
- Humidity Range: 20% ~ 95%
- Online Update: No
- Dimensions: 32*24.4*12mm
- Weight: 8g
- Waterproof: PPX4
- Certification: CE, FCC ID: 2A2UNR7A00

- 产品型号：FMS-R7A
- 适配发射机：FMS-G7
- 适配模型：1:12、1:10 仿真或攀爬模型车
- 适配电机：适配电机 370 有刷电机
- PWM 通道：7
- 车灯组数：6
- 无线频率：2.4GHz ISM
- 无线协议：AFHDS 2A-BS
- 输入电源：2S 锂电
- 持续 / 峰值电流：20A/80A
- BEC 输出：5V/1A
- 发射功率：< 20dBm
- 遥控距离：>100m（空旷无干扰地面距离）
- 天线类型：外置单天线
- 数据输出：PWM
- 通道分辨率：1024 级
- 温度范围：-10°C~+60°C
- 湿度范围：20%~95%
- 在线更新：无
- 外形尺寸：32*24.4*12mm
- 机身重量：8g
- 防水等级：PPX4
- 认证：CE, FCC ID：2A2UNR7A00

VEHICLE SETUP 车辆设置

Connecting the battery 连接电池

Step 1: Open the hood by releasing the two buckles in the front of the car shell.

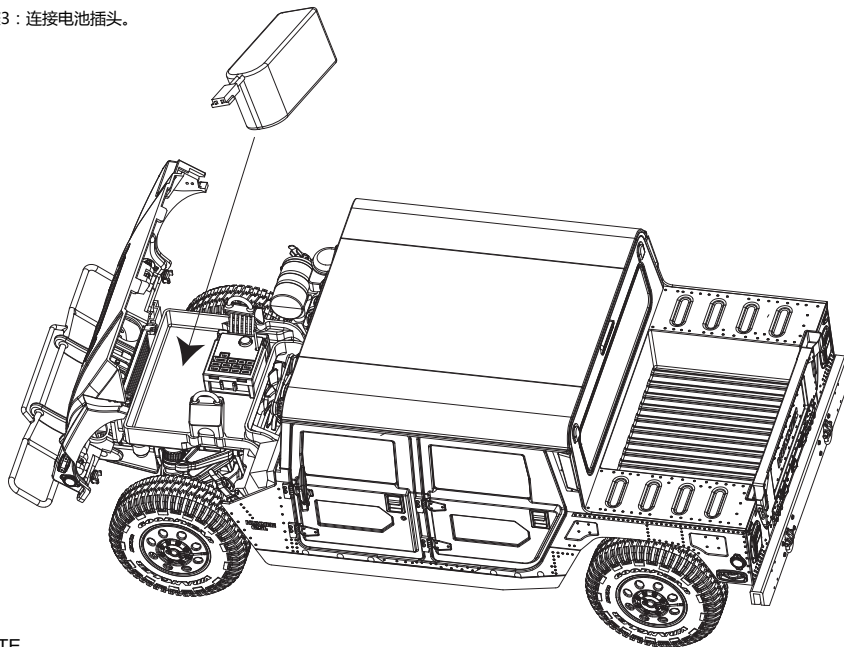
Step 2: Place the battery in the battery compartment on the frame.

Step 3: Connect the battery plug.

步骤1：打开图示车头位置的两个卡扣，掀开引擎盖；

步骤2：将电池放置在电池舱位；

步骤3：连接电池插头。



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.

VEHICLE SETUP 车辆设置

注意：

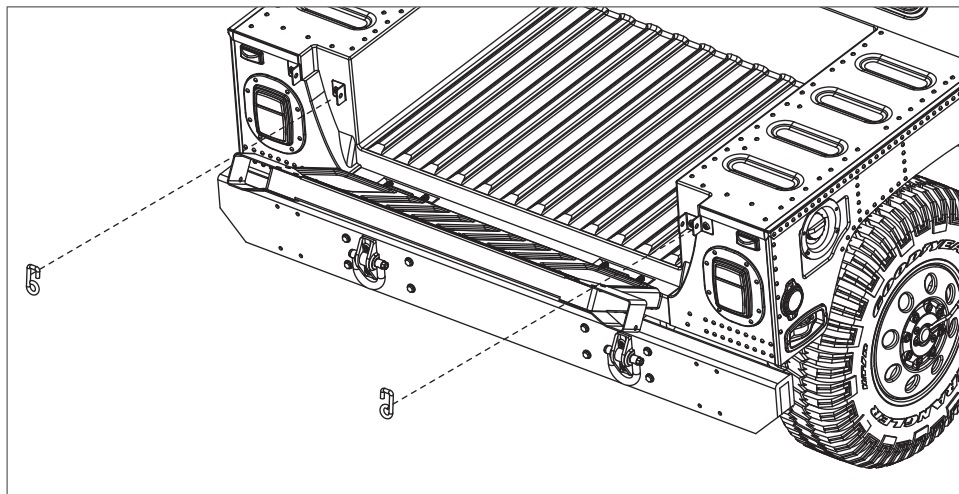
- 1、如果长时间不用，请拔下电池，以防电池损坏。
- 2、不要打开、拆解或试图维修电池。
- 3、在给电池充电之前，需要先断开电池与车辆的连接。
- 4、请勿在车内给电池充电。

Battery Precautions 电池注意事项

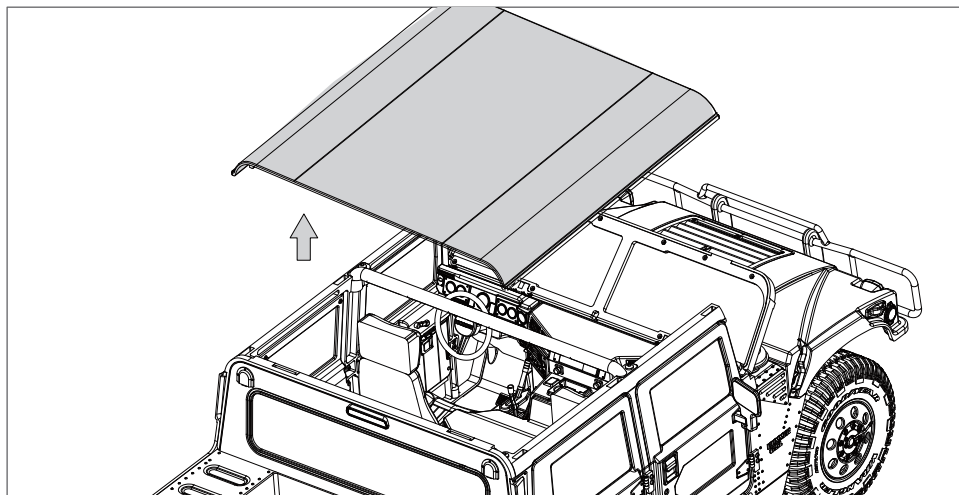
- Never charge a lithium polymer battery with a charger designed for Nicd, NIMH, or any other type of battery chemistry. Use ONLY charger designed for LiPo battery.
 - Do not leave LiPo battery unattended during charging.
 - Do not overcharge the battery.
 - Always charge LiPo batteries on non-flammable, 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℃) 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℃-45℃).
-
- 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℃）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存放电池。
 - 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）。

OPERATING THE VEHICLE 车辆操作

Tailgate opening
打开尾门



Removable Roof
顶棚拆卸

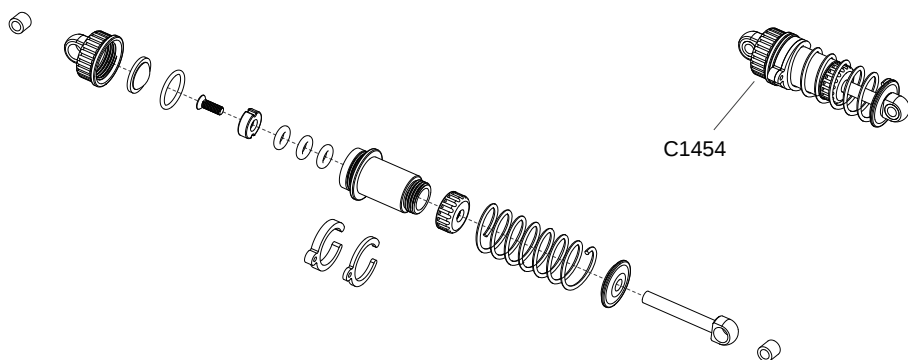


Spare parts list 配件列表

C1439	Wheels	轮毂	C1478	G7 + R7A transmitter receiver set	G7 + R7A 发射接收套装
C1440	Tire with foam	轮胎配海棉	C1479	G7 transmitter	G7 发射器
C1441	Tire bracket	轮胎夹	C1480	R7A receiver	R7A接收器
C1442	Front left / rear right portal axle	前左/后右门桥	C1481	9g servo wire: 170mm	9g 舵机 线长:170mm
C1443	Front right / rear left portal axle	前右/后左门桥	C1482	9g servo wire: 250mm	9g 舵机 线长:250mm
C1444	Front/rear wheel cvd shaft	前/后轮CVD轴套件	C1483	9g servo wire: 440mm	9g 舵机 线长:440mm
C1445	Steering link set	转向连杆	C1484	370 brushed motor	370有刷电机
C1446	Wheel adaptor	轮毂接合器	C1485	Roof cover (black)	车顶盖 (黑)
C1447	Bearing	轴承	C1486	Roof cover (yellow)	车顶盖 (黄)
C1448	Differential set	差速器	C1488	Roof cover (w/o painting)	车顶盖 (灰)
C1449	Transmissio gear box set	变速箱总成	C1489	Lens	灯镜片
C1450	Transmission shaft	中传动轴	C1490	Suspension arm	摇臂
C1451	Girder	大梁	C1491	Suspension arm pin set	摇臂轴针
C1453	Steering wheel set	方向盘套件	C1493	Ront window frame (black)	前挡风车窗 (黑)
C1454	Shock absorbers set	减震器	C1492	Front window frame (yellow)	前挡风车窗 (黄)
C1455	Servo horn set	舵机机臂	C1494	Front window frame (w/o painting)	前挡风车窗 (灰)
C1456	Rear door set (black)	车尾门 (黑)	C1495	Rear window frame (black)	后挡风车窗 (黑)
C1457	Rear door set (yellow)	车尾门 (黄)	C1496	Rear window frame (yellow)	后挡风车窗 (黄)
C1459	Rear door set (w/o painting)	车尾门 (灰)	C1498	Rear window frame (w/o painting)	后挡风车窗 (灰)
C1460	Seat	座椅	C1499	Hood locker	引擎盖锁扣
C1461	Light cup set	灯杯	C1500	Rear door locker	尾门锁扣
C1462	Hood (black)	引擎盖 (黑)	C1501	Chassis (black)	底板 (黑)
C1463	Hood (yellow)	引擎盖 (黄)	C1502	Chassis (yellow)	底板 (黄)
C1465	Hood (w/o painting)	引擎盖 (灰)	C1504	Chassis (w/o painting)	底板 原色黑
C1466	Left door set (black)	左车门 (黑)	C1505	Interior trim set	内饰胶件
C1467	Left door set (yellow)	左车门 (黄)	C1506	Linkage	连杆
C1469	Left door set (w/o painting)	左车门 (灰)	C1507	Exhaust	排气管
C1470	Right door set (black)	右车门 (黑)	C1508	Fuel tank	油箱
C1471	Right door set (yellow)	右车门 (黄)	C1509	Chassis protective frame	车底保护架
C1473	Right door set (w/o painting)	右车门 (灰)	C1510	Light effect kit	灯效套装
C1474	Suspension bracket	悬挂架	C1575	Differential metal gear set	金属齿轮差速器
C1475	Bumper set	防撞	C1576	Portal axle metal gear set	金属齿轮门桥
C1476	Instrument panel	仪表盘	C1577	Transmission metal gear set	金属齿轮传动组
C1477	Mirror set	后视镜			

EN: Shock absorbers set

CN:避震组

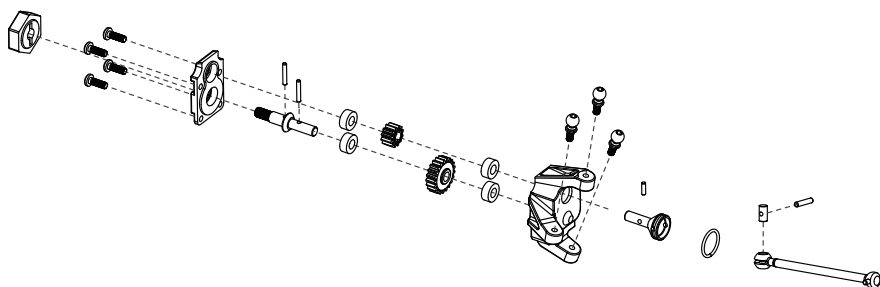


EN:Portal axle

CN:门桥

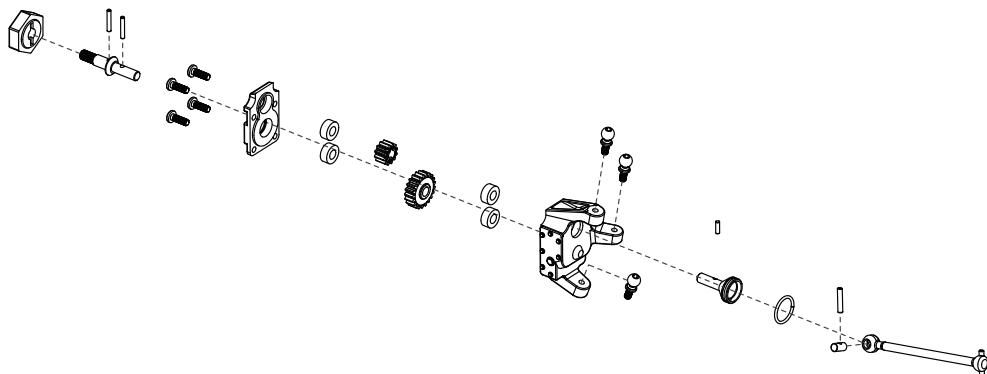
C1442 Front left / rear right portal axle

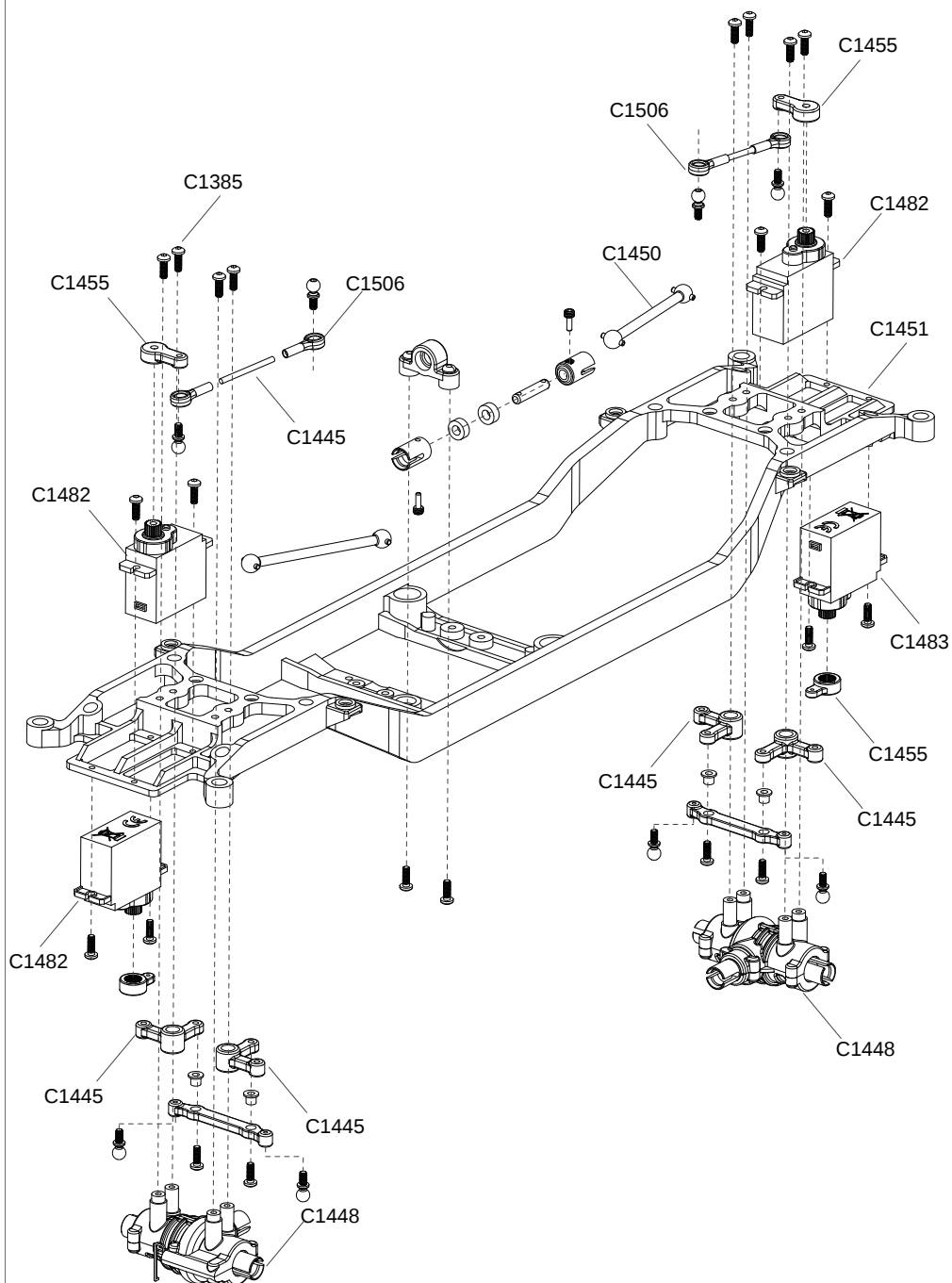
C1442:前左/后右门桥

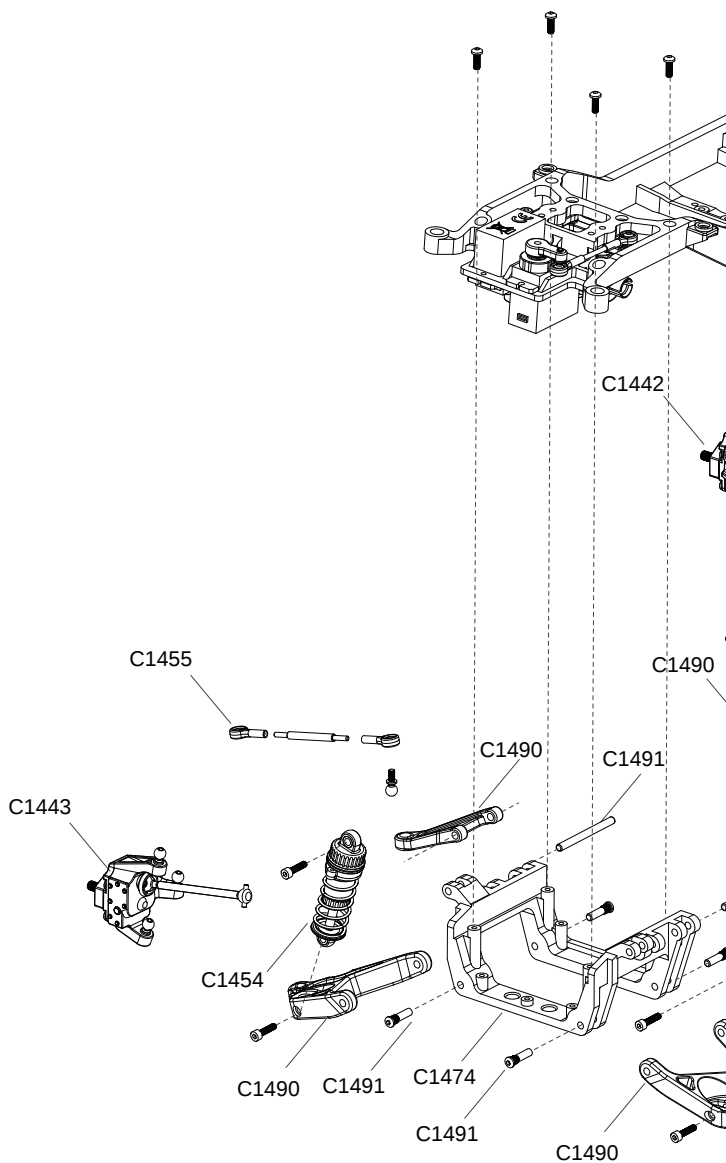


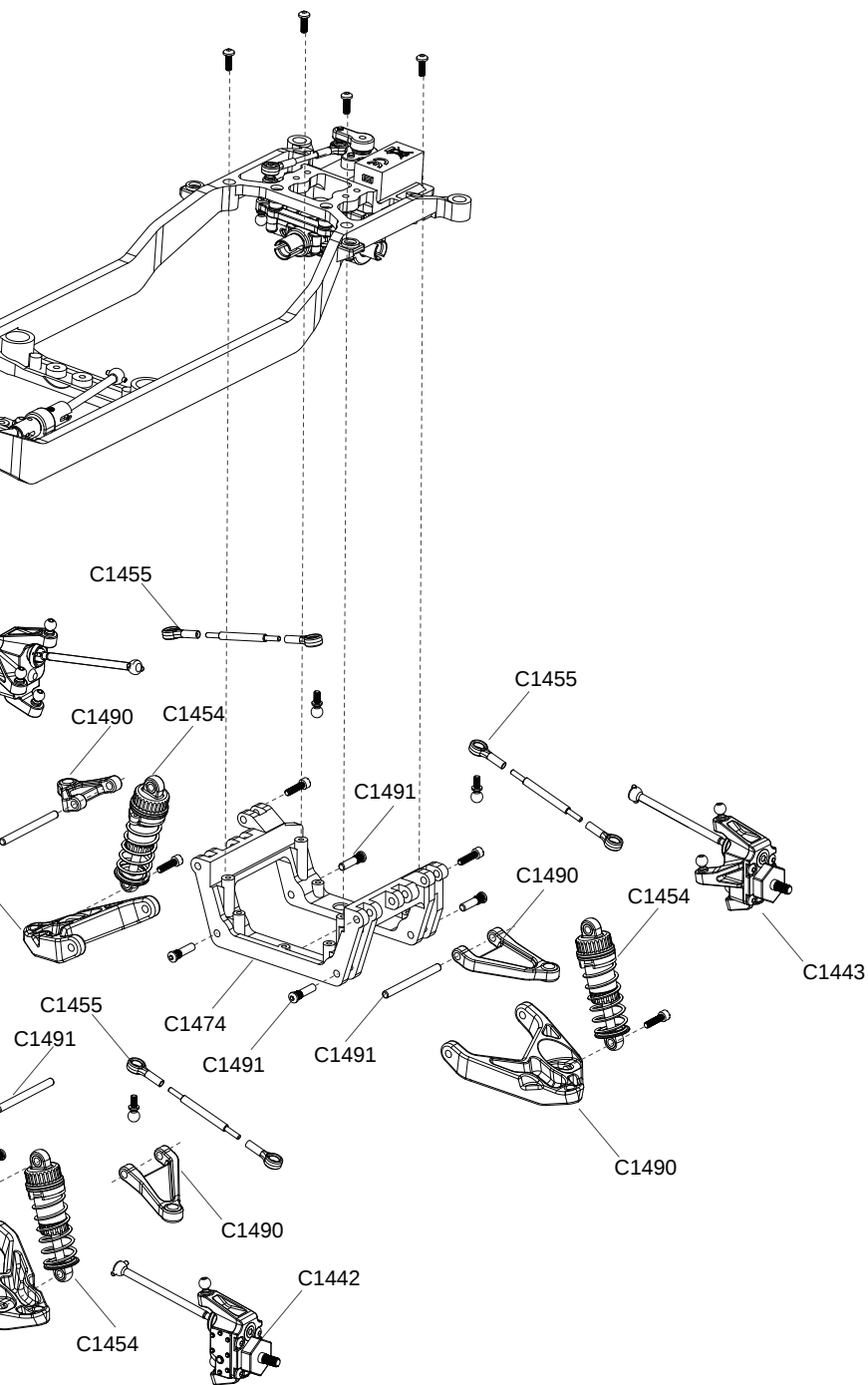
C1443:Front right / rear left portal axle

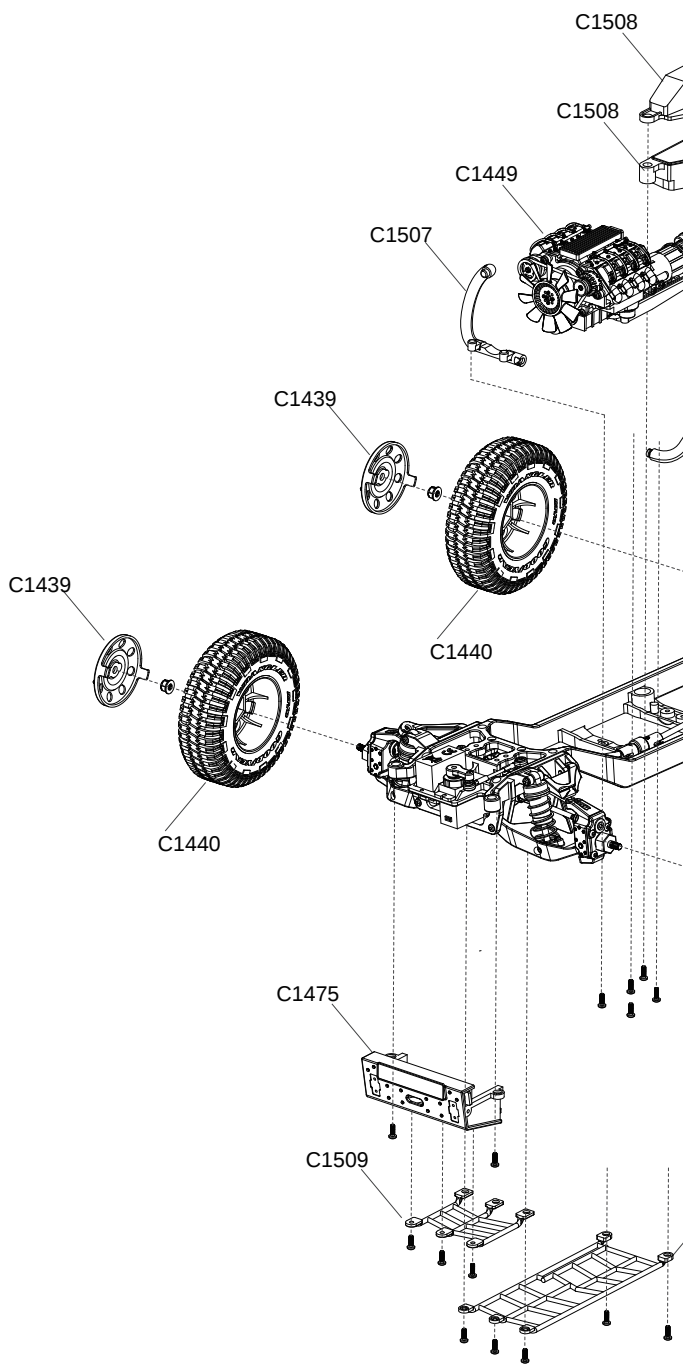
C1443:前右/后左门桥

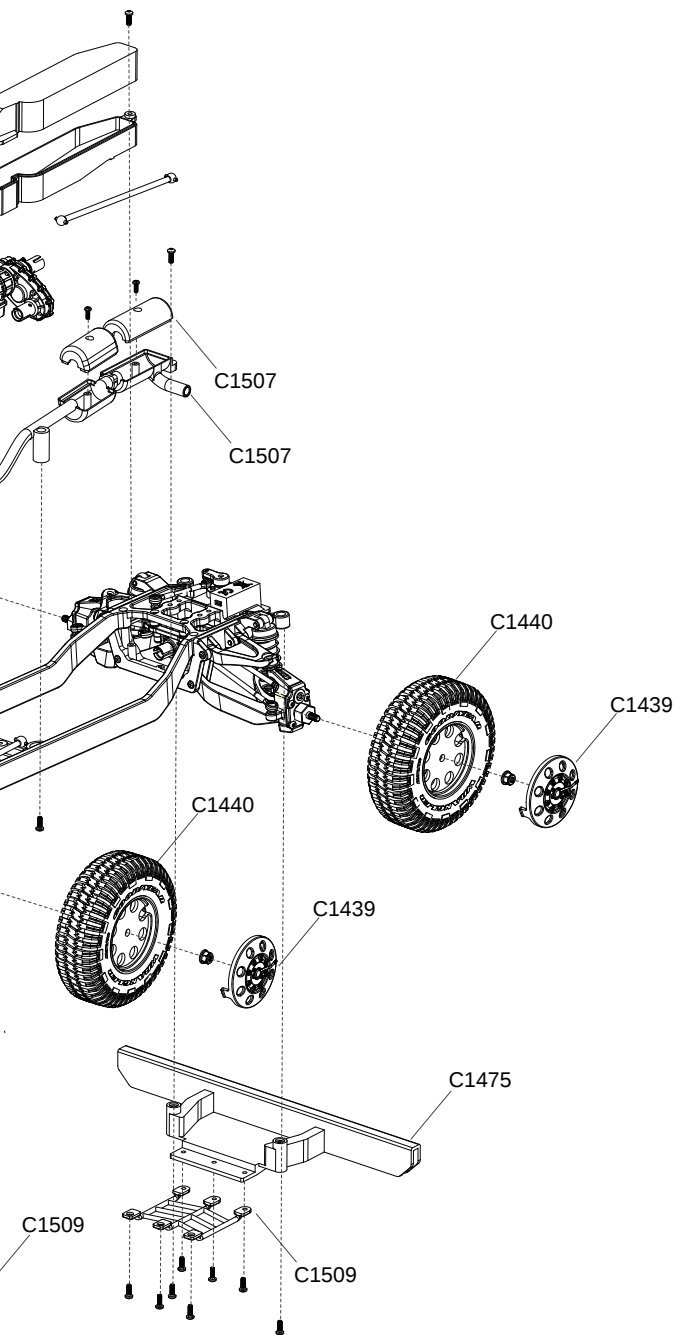


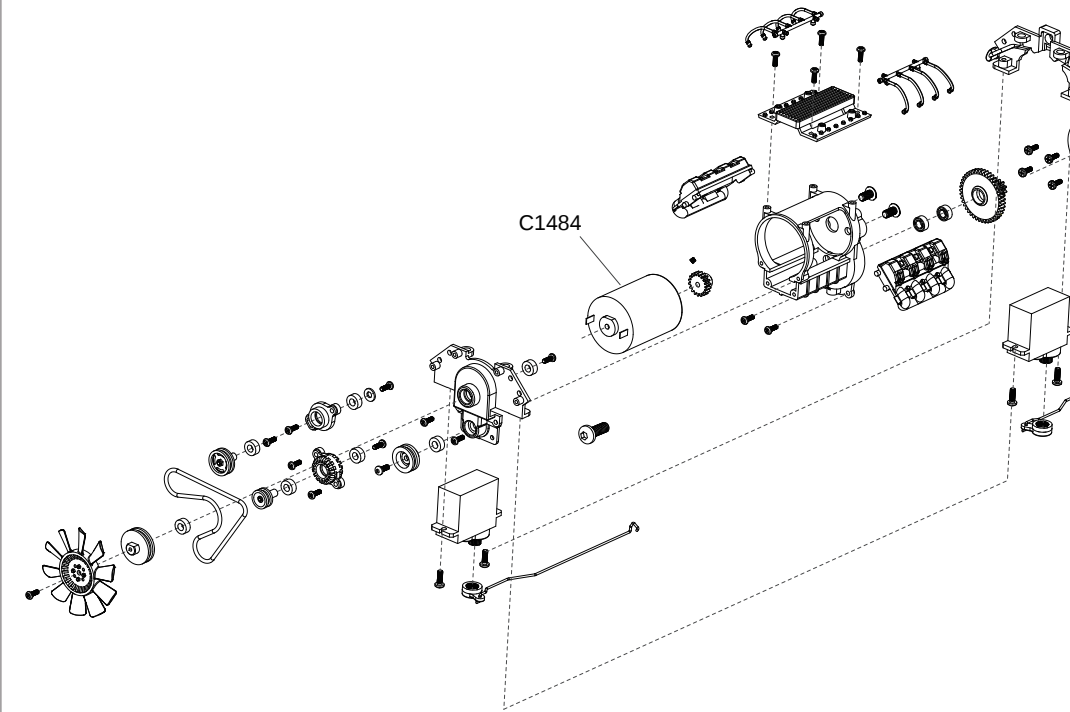


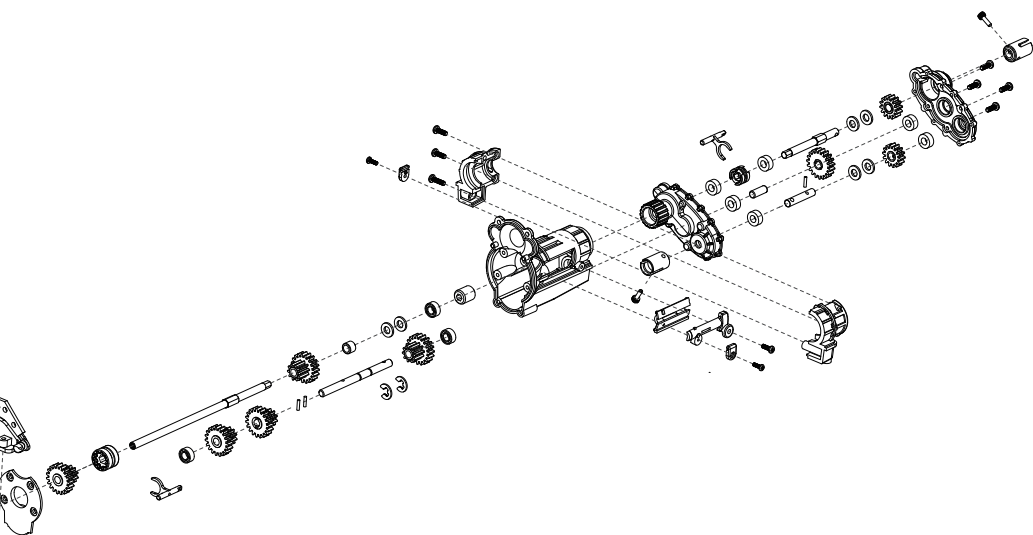




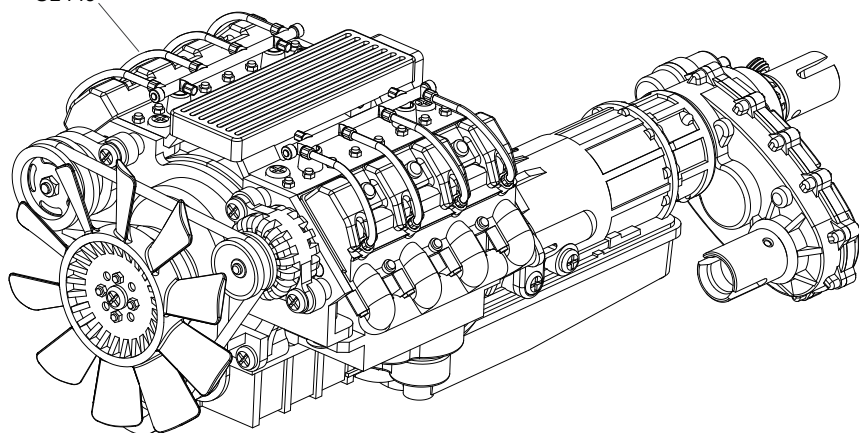






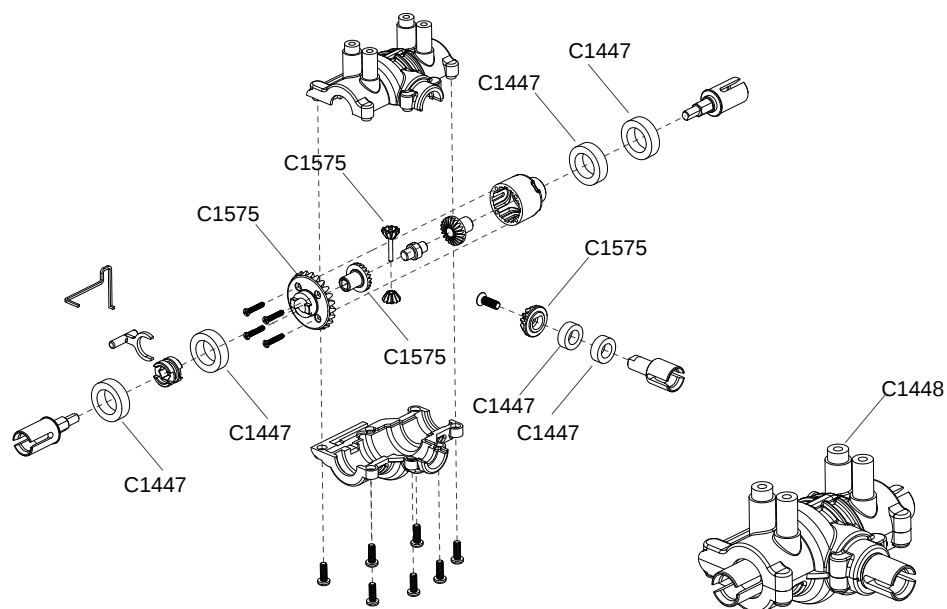


C1449



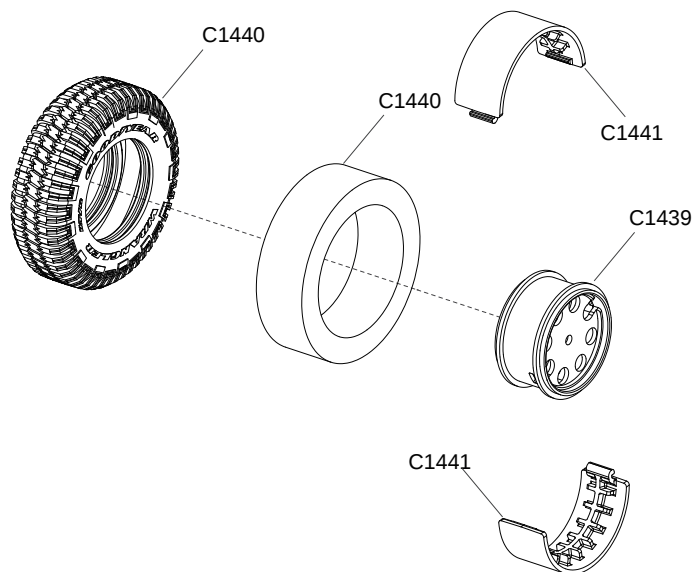
EN: Differential set

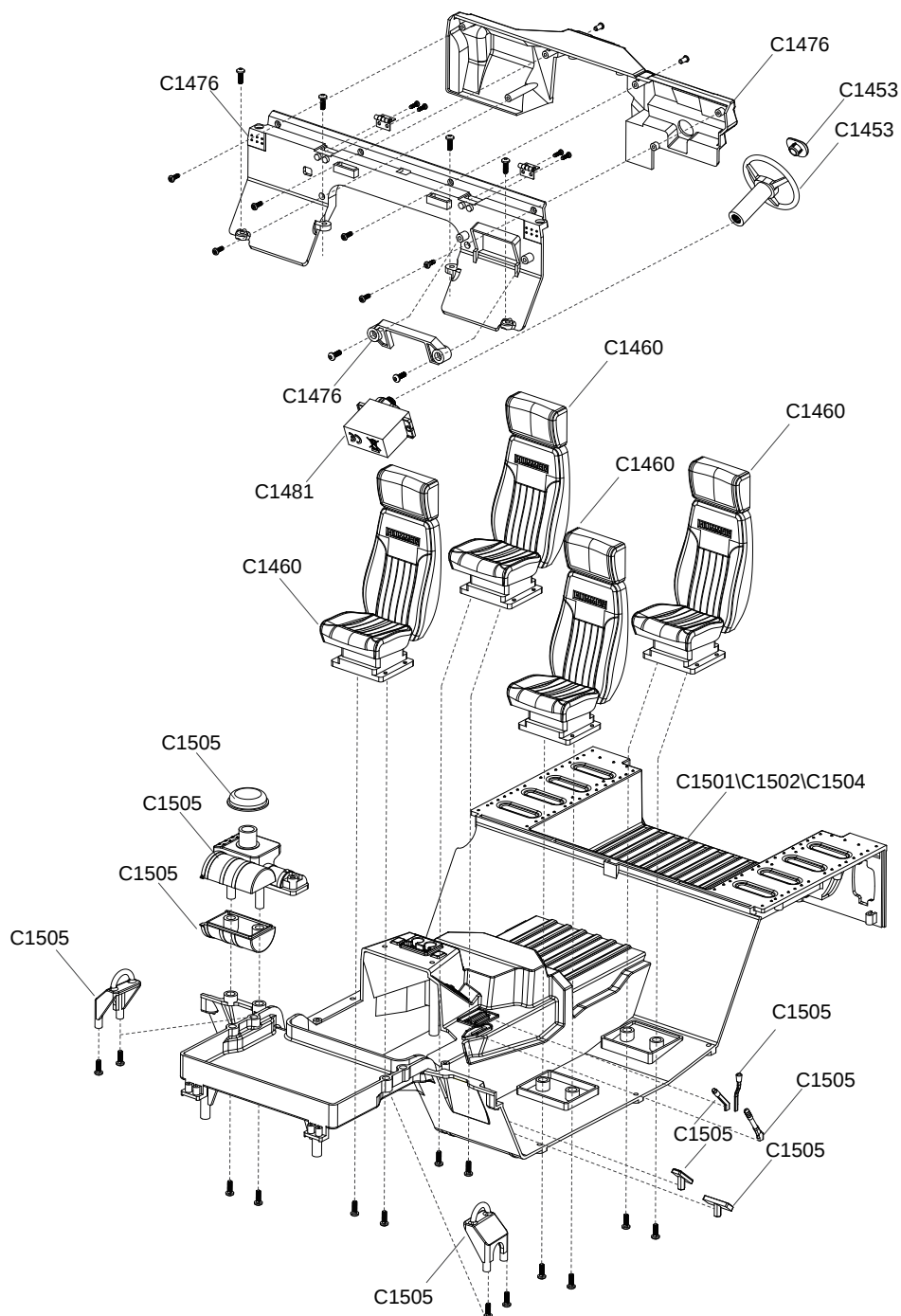
CN: 差速器

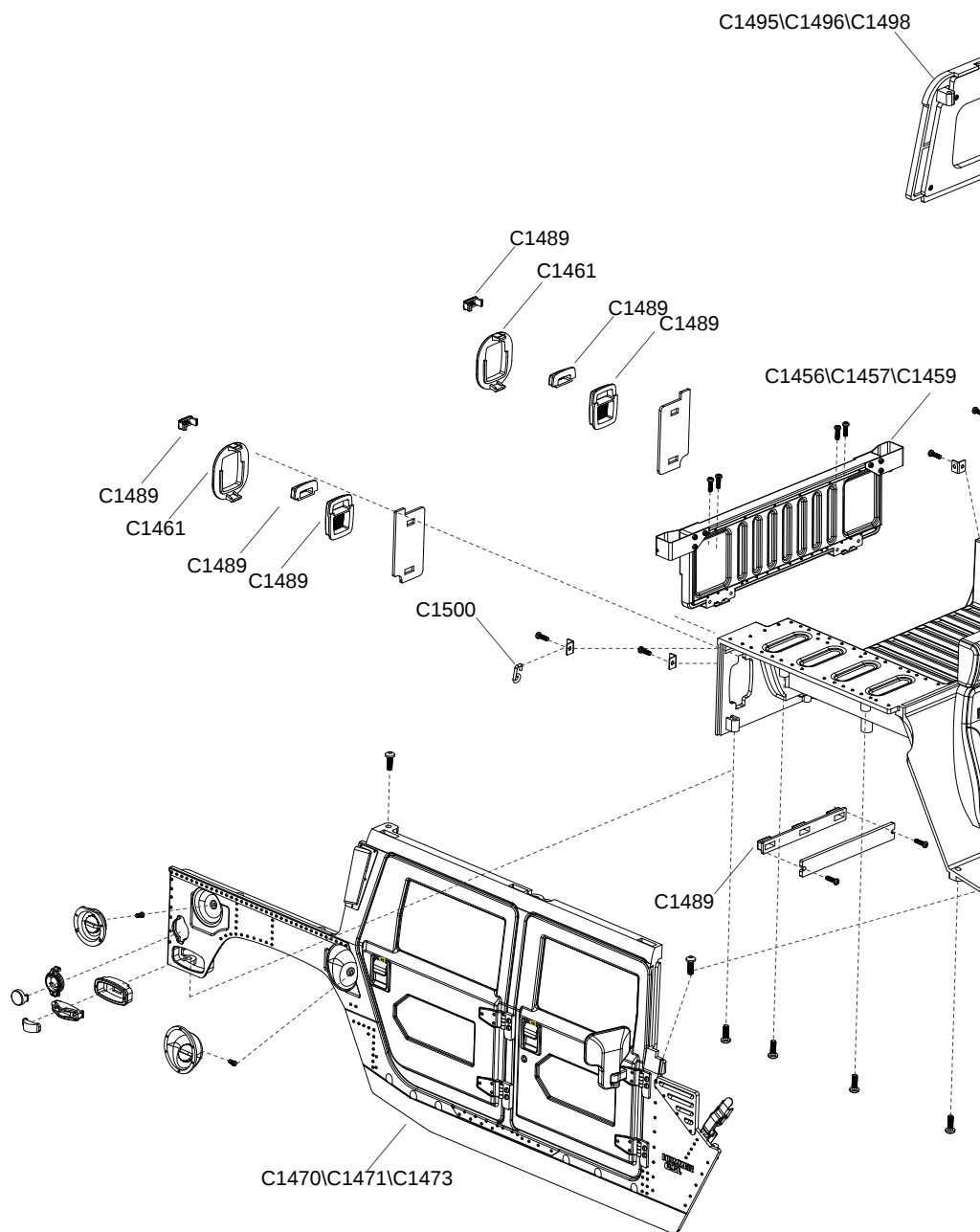


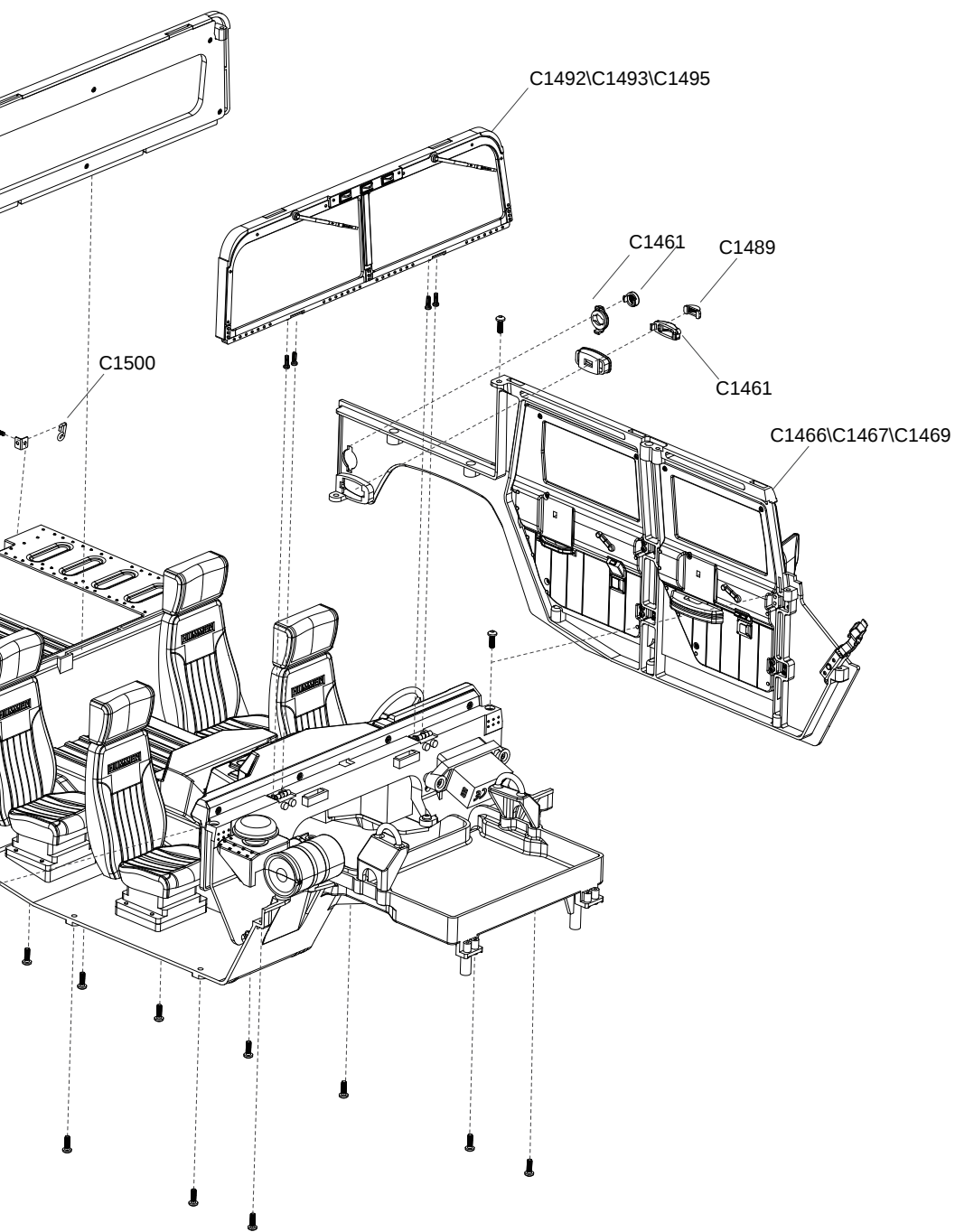
EN: Tire

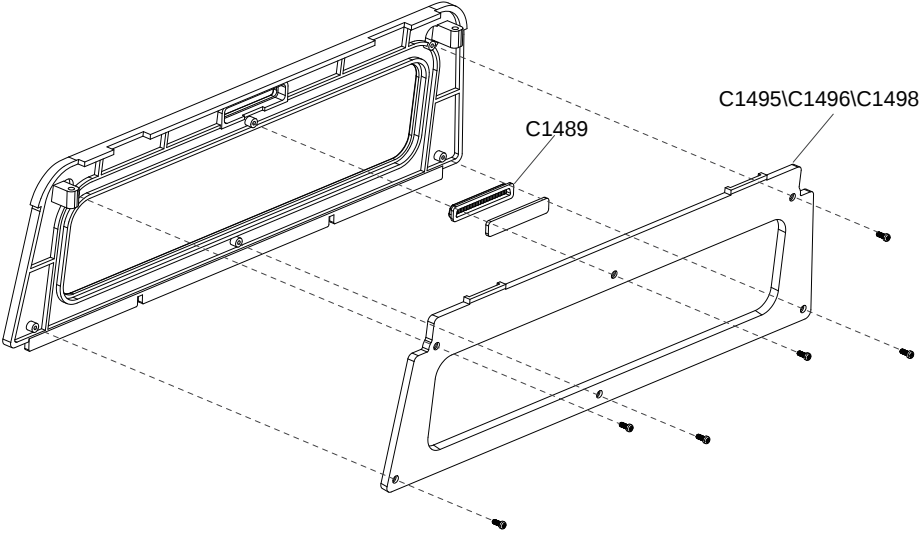
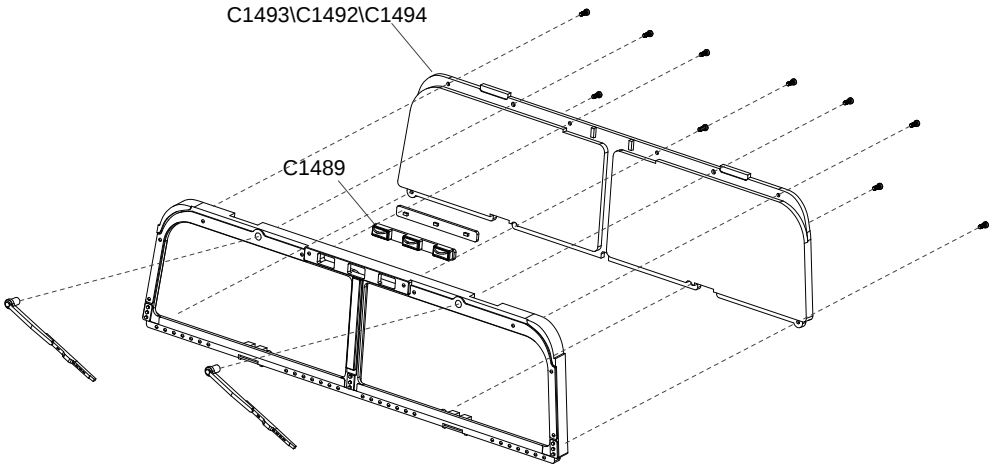
CN: 轮胎组

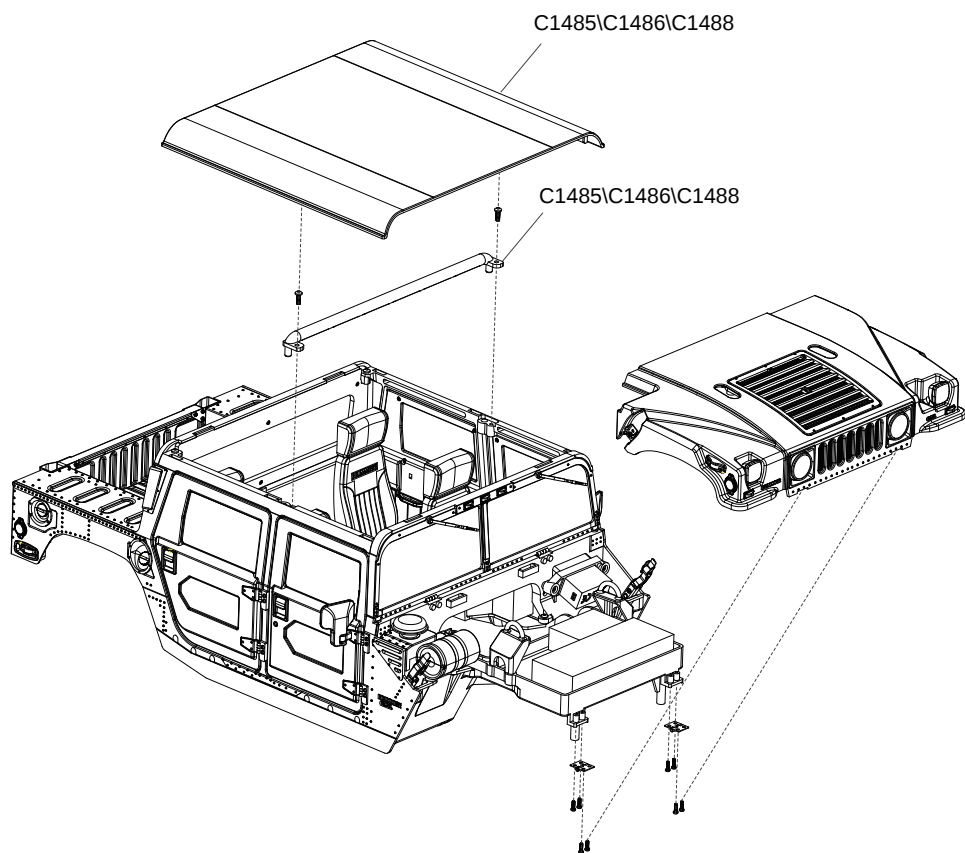


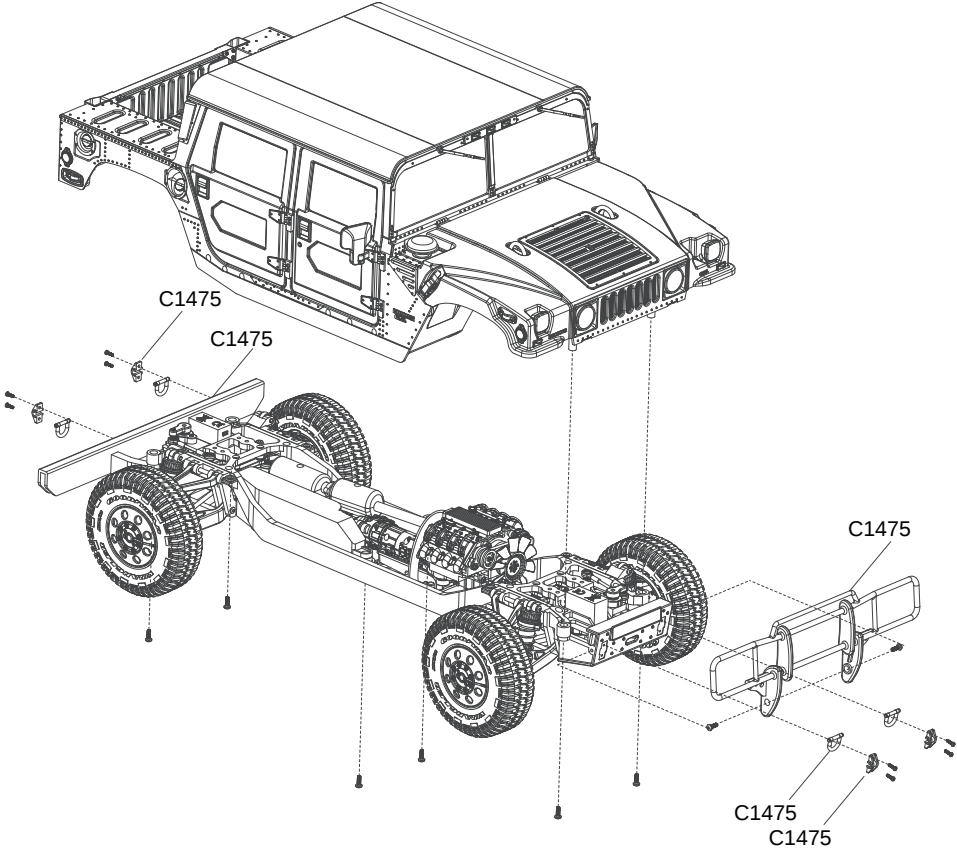












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