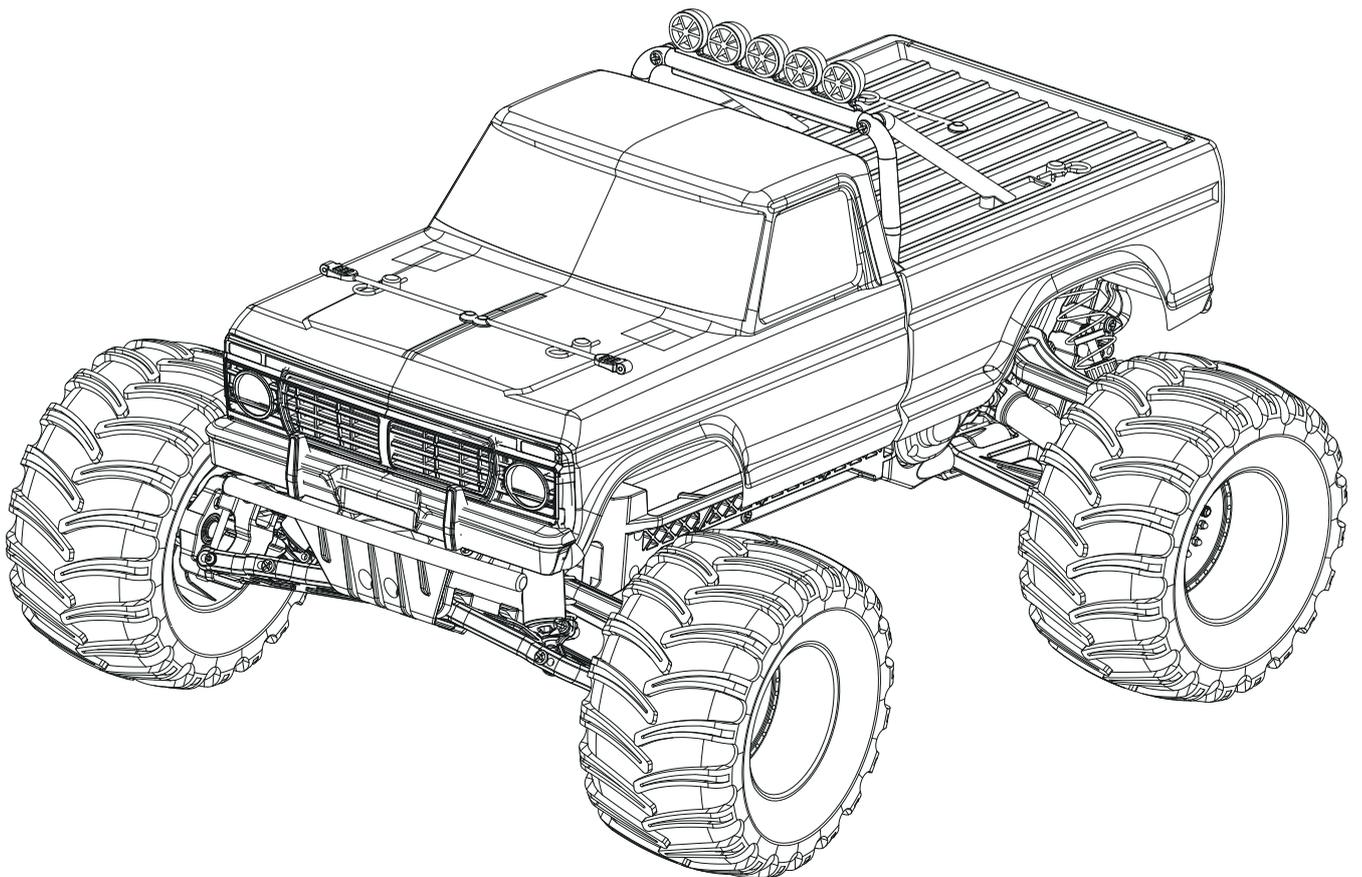




1/10 FORD F100



Instruction Manual

操作手册

Disclaimer and Warning 免责声明与警告

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

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

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

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

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

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

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

- Replace damaged components with original factory-parts. Pay special attention to the polarity of all vehicle wiring.
- Use common sense when selecting the environment to operate your vehicle. Do not operate near power cables, cellular/radio towers, deep water or unstable terrain. The operator is solely responsible for their actions.
- The product is composed of precision electrical components. It is critical to keep the product away from moisture and other contaminants.
- Always check the radio range of the vehicle prior to operation in order to prevent radio loss or interference.
- Operate this product within your ability. If the vehicle is dangerous to retrieve, it never worth the risk.
- 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。

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

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

Safety symbols 安全符号

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

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

 Danger 危险	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严重受伤，甚至遭受生命危险。
 Warning 危险	Not following these instructions may lead to major injuries. 如果使用者不按照说明方法操作，有可能导致操作者或他人受到严重伤害。
 Caution 危险	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受到轻微伤害。

Safety guide 安全信息

Prohibited 禁止

- Do not use the product at night or in bad weather like rain or thunderstorm. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not use the product on rain or snow days. Any exposure to moisture (water or snow) may cause erratic operation or loss of control.
- Interference may cause loss of control. To ensure the safety of you and others, do not operate in the following places:
 - 1、Near any site where other radio control activity may occur
 - 2、Near power lines or communication broadcasting antennas
 - 3、Near people or roads
 - 4、On any body of water when passenger boats are present

Safety Precautions 安全保障措施

- 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.
- Please ensure that the magnetic connectors on the chassis and car shell do not come into contact with metal objects to prevent any potential electronic short circuits!

• 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。

• 请务必确保底盘和车壳上的磁体结合件不与金属物品接触，以免引发电子短路！

! 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。

DoC Declaration

Hereby, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the Radio Equipment [FS-FMS-MG6-BS&FS-FMS-R6D-ESC-BS] is in compliance with RED 2014/53/EU.

The full text of the EU DoC is available at the following internet address: www.flyskytech.com/info_detail/10.html

CE Warning

The ce warns that the installation of the antenna used in this transmitter must be kept in distance from all the personnel and shall not be used or used with any other transmitter. The end user and the installer must provide antenna installation instructions and transmitter operating conditions to meet the requirements for 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-lacated 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



CAUTION

Risk of explosion if the battery is replaced an incorrect disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion; leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

RF Exposure Statement

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

Background 产品背景

The Ford F-Series can be dated back to the 1940s. After the end of World War II, the U.S. economy recovered quickly and market demand surged. The demand for pickup trucks was particularly strong in the farm, construction, and transportation industries, as business activity in these areas increased.

As the first of the sixth generation of F-Series pickup trucks, the 1973 Ford F100 stood out with distinctive body lines and striking front fascia design that emphasized a powerful aesthetic and a focus on utility. This generation introduced a unique 'dent' design that extended from the front to the rear, a feature that earned it the nickname 'dentside'. It also featured an even more striking clamshell hood and an upgraded grille.

With its retro styling and mechanical reliability, Ford F100 became an iconic symbol of American pop culture. Not only has it been featured in movies, TV shows, and music videos, but it has also become a favorite among vintage car enthusiasts and collectors. Even today, there are still a large number of F100 fans and modification enthusiasts dedicated to preserving and customizing this model, keeping it alive and thriving in the classic car market.

The concept of the monster truck began in the 1970s, when owners began modifying their pickup trucks to perform better in off-road competitions. Over time, monster truck culture has been integrated into the bloodline of American automotive culture, and has even made frequent appearances in movies, TV shows, and even video games, winning widespread attention and love.

福特F系列，可以追溯到20世纪40年代，第二次世界大战结束后，美国经济迅速复苏，市场对货运车辆的需求大幅增加。农场、建筑和运输业对皮卡的需求尤为强烈。福特汽车公司意识到，随着商业活动的增加，市场对耐用且多功能的货车需求激增。

作为第六代F系列皮卡的首款车型，1973年的福特F100以其鲜明的车身线条和引人注目的前脸设计脱颖而出，彰显出强烈的力量美学与实用主义精神。这一代车型引入了从前部延伸至尾部的独特“凹痕(dent)”设计，这一特征也为其赢得了“凹痕侧”(dentside)的昵称。此外，它还配备了更为醒目的蛤壳式引擎盖以及提升后的格栅设计。

凭借复古的外观风格与可靠的机械性能，福特F100成为了美国流行文化中的一个标志性符号。它不仅频繁亮相于电影、电视节目及音乐视频中，还成为了众多复古车迷与收藏家心中的挚爱。时至今日，仍有大量F100的拥趸与改装爱好者致力于该车型的复原与改造工作，使其在经典车市场中持续焕发着勃勃生机。

大脚车的概念起源于20世纪70年代，当时，一些车主开始着手改装自己的皮卡车，以便在越野竞技中取得更佳表现。随着时间的推移，大脚车文化逐渐融入美国汽车文化的血脉之中，甚至在电影、电视节目乃至视频游戏领域频频亮相，赢得了广泛的关注与喜爱。

About Model 产品介绍

The 1/10 scale Ford F100 from FMS Models is an entertaining and versatile monster truck. It features a sturdy PC shell body design, with FMS carefully replicating the original vehicle's aesthetic lines. It comes pre-installed with window, light, and 'dentside' decorative stickers that extend from the front to the rear of the body, collectively creating a rich visual hierarchy. Further enhancing the robust body are electroplated anti-collision components and a grille. Additionally, to cater to players' individual preferences, it includes detachable roll bar and auxiliary off-road light decorations as extras.

In terms of power and control, this Ford F100 monster truck utilizes a 2WD rear-wheel drive system, with a high-performance 550 brushed motor positioned at the rear of the chassis to guarantee robust power output. As a hallmark of monster trucks, the model is fitted with massive rubber tires to tackle various terrains. The battery tray is centrally located, and its cover secures with a snap-flip mechanism, making it easy to operate and compatible with regular size of Lipo/NiMH batteries.

Furthermore, the factory-installed wheelie bar provides multiple adjustable mounting holes, which effectively support the model car during jumps or high-speed runs, significantly reducing the risk of backflips and ensuring vehicle stability.

Product Introduction 产品信息

1/10的福特F100是FMS模型推出的一款娱乐型的怪物卡车。其车身采用了坚实耐用的软壳设计，FMS精心复刻了原车的线条美感，并出厂预贴车窗，车灯以及和从前车身延伸到尾部的“凹痕侧”装饰贴纸，这些设计元素共同营造出丰富的视觉层次；在确保车身强度的同时，还配备了精致的电镀防撞部件和格栅；此外，为了满足玩家的个性化需求，还额外附赠可拆卸的防滚架和射灯装饰件。

在动力与操控方面，这款福特F100怪物卡车采用了2WD后轮驱动系统，高性能的550有刷电机被安置到底盘的后部，以确保强劲的动力输出；作为大脚车的标志性特征，该模型配备了超大的橡胶轮胎，以应对各种复杂地形。电池仓采用中置设计，仓盖通过卡扣式翻转固定，不仅操作便捷，而且兼容多种常用尺寸的锂电/镍氢电池。

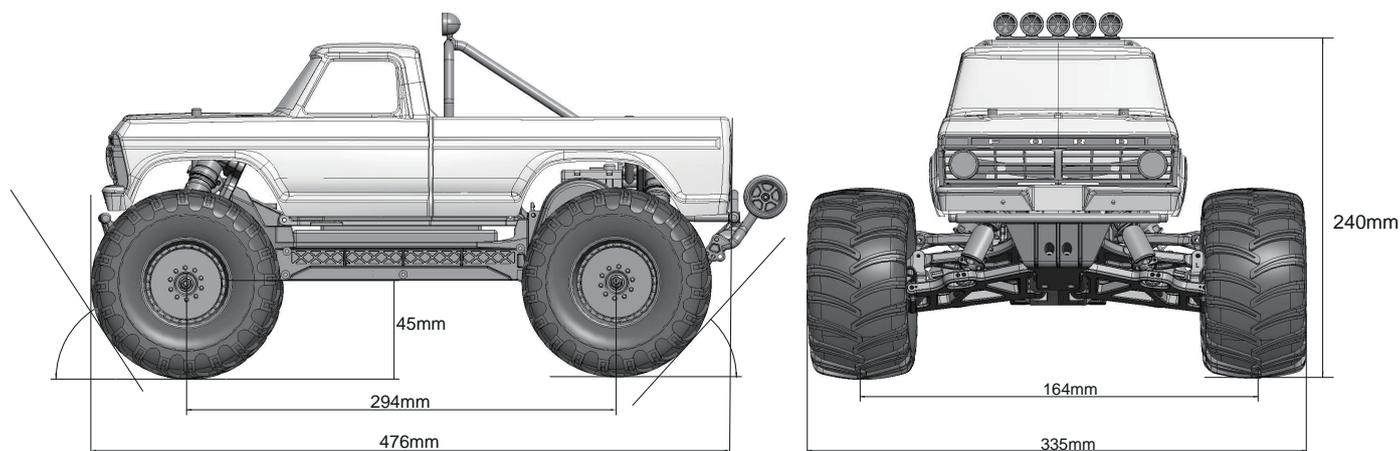
此外，原厂配备的可拆卸抬头轮，提供了多个角度的调节孔位，这一设计在模型车进行飞坡或高速行驶时，能够有效起到支撑作用，大大降低了后空翻的风险，确保了车辆的稳定性。

Features 特点

- Officially licensed by Ford Motor Company;
- PC material body shell;
- Wheeler bar with adjustable mounting holes;
- Loadable battery tray;
- 2WD rear-wheel drive system;
- Ball bearing components;
- 15KG waterproof digital steering servo;
- High-quality 40A 2-in-1 ESC/receiver unit;
- Sturdy and durable nylon chassis frame;

- 福特汽车公司官方授权;
- PC材质车壳;
- 多角度孔位抬头轮;
- 装载式电池托盘;
- 2WD 后轮驱动系统;
- 滚珠轴承组件;
- 15KG防水数字转向舵机;
- 高质量40A二合一电调接收器;
- 坚固耐用的尼龙车架底盘

Specification 产品参数



Product Introduction 产品信息

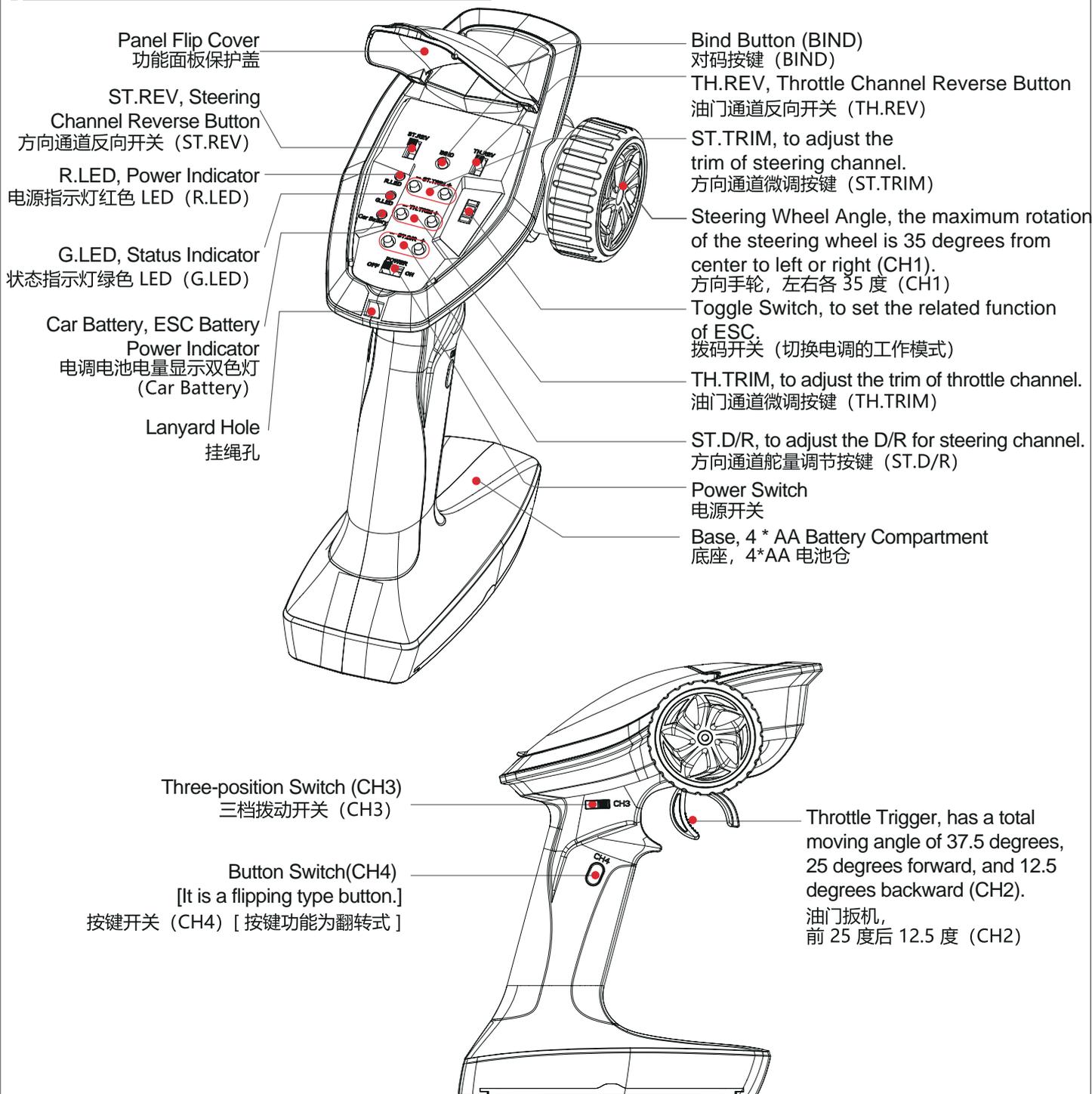
Transmitter	FS-FMS-G4P1-BS	发射型号:	FS-FMS-G4P1-BS
Receiver	FS-FMS-R4D-ESC-BS(40A)	接收/电调型号:	FS-FMS-R4D-ESC-BS(40A)
Recommend Battery	2S Lipo or NiMH(6 cells)	推荐电池:	2S 锂电或 7.2v镍氢
Motor Type	550 Brushed motor	电机:	550 有刷电机
Motor Gear Pinion	13T	马达齿齿数:	13T
Motor Gear Pitch	M0.8	马达齿模数:	M0.8
Spur Gear Pinion	61T	正齿轮齿数	61T
Spur Gear Pitch	M0.8	正齿轮模数	M0.8
ESC	FS-FMS-R4D-ESC-BS(40A)	电调型号及规格:	FS-FMS-R4D-ESC-BS(40A)
Steering Servo	15kg*1	转向舵机:	15kg*1
Product Size	476*335*240mm	整车尺寸 (长宽高) :	476*335*240mm
Wheelbase	294mm	轴距:	294mm
Tread	164mm	轮距:	164mm
Ground Clearance	45mm	离地距离:	45mm
Steering Type	2WS	转向:	前2WS
Maximum steering angle	35°	最大转向角:	35°
Tire Size (Diameter & Width)	130*70mm	轮胎 (直径和宽度) :	130*70mm
Wheelhub Size (Diameter & Width)	66*52mm	轮毂 (直径和宽度) :	66*52mm
Wheelhub Adaptor Size	14mm	轮毂接合器尺寸:	14mm
Bearing	Ball bearing*15pcs	轴承:	滚珠轴承15pcs
Drive System	2WD	驱动形式:	2WD
Waterproof Class	Splash-proof	是否防水:	防溅水
Battery Compartment Size	152*49.5*30mm	电池舱尺寸:	152*49.5*30mm
Maximum Speed	30km/h	最大速度:	30km/h
Endurance Reference	15-20mins (3000mAh)	续航时间:	15-20分钟 (3000mAh)
Maximum Control Distance	150m	最大遥控距离:	150米

Transmitter Instruction 发射机介绍

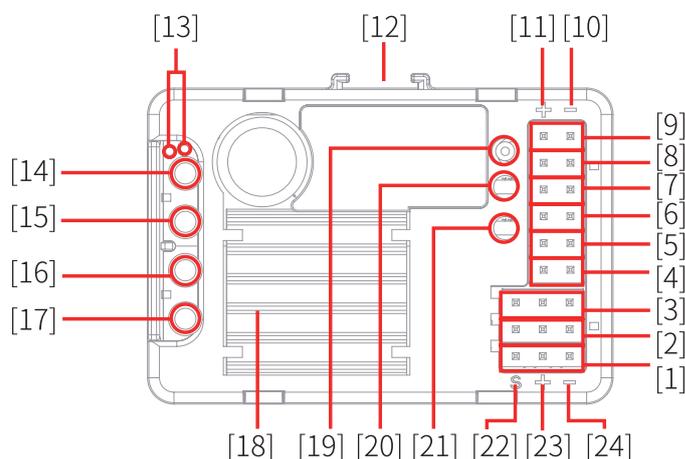
The FS-G4P1-BS is a simplified 4-channel transmitter that adopts the 2.4GHz 2A-BS Automatic Frequency Hopping Digital System which is independently developed by the FLYSKY. Its appearance shows speed, passion and power with the elements of sports car. It can set ESC parameters through the transmitter. This transmitter also has a Beginner Mode for entry players to use.

FS-G4P1-BS 是一款使用富斯最新自主研发的 2.4GHz 2A-BS 自动跳频数字系统的简版 4 通道发射机，外观采用跑车元素彰显速度、激情和力量。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。

Transmitter Overview 发射机概览



Receiver Overview 接收机概览



- | | | |
|---------------------------------------|--------------------------------------|-------------------------------|
| [1] CH1 | [9] Roof Light Interface | [17] - (Motor Cable Cathode) |
| [2] CH3 | [10] - (Car Light Interface Cathode) | [18] Heatsink |
| [3] CH4 | [11] + (Car Light Interface Anode) | [19] Antenna |
| [4] Left Turn Signal Light Interface | [12] Tab for Hanging Power Switch | [20] Receiver LED |
| [5] Right Turn Signal Light Interface | [13] Power Switch Cable | [21] ESC LED |
| [6] Headlight Interface | [14] + (Motor Cable Anode) | [22] Signal Pin(CH Interface) |
| [7] Tail Light Interface | [15] + (Power Cable Anode) | [23] + (CH Interface Anode) |
| [8] Ambient Light Interface | [16] - (Power Cable Cathode) | [24] - (CH Interface Cathode) |

The car light interface is a standard 2.54mm*2 Pins.

- | | | |
|-------------|-----------------|------------------|
| [1] CH1通道接口 | [9]车顶灯 接口 | [17]马达线"-" |
| [2] CH3通道接口 | [10] - (车灯接口负极) | [18] 散热片 |
| [3] CH4通道接口 | [11]+ (车灯接口正极) | [19] 天线 |
| [4] 左转灯接口 | [12] 电源开关挂耳 | [20] 接收机指示灯 |
| [5] 右转灯接口 | [13] 电源开关线 | [21] 电调指示灯 |
| [6] 前大灯接口 | [14]马达线"+" | [22] S (通道接口信号端) |
| [7] 后尾灯接口 | [15] 电源线"+" | [23]+ (通道接口正极) |
| [8] 氛围灯接口 | [16] 电源线"-" | [24]- (通道接口负极) |
- 车灯接口为标准2.54mm*2Pin排针。

Receiver Features 接收机产品特色

1. The integrated design of the ESC and the motor greatly reduces the overall volume and weight, and makes the layout and routing of car frame simpler and more convenient.
 2. PPX7 excellent waterproof and dustproof performance make it easily cope a variety of complex environments.
 3. The parameters of ESC can be set through the transmitter in real time, no need to connect parameter adjusting equipment or remover the car frame, making the setting easier.
 4. Two running modes and four drag brake forces can be adjusted. Only one can meet the application of most car models.
 5. Built-in car light control function.
 6. Multiple protection functions: low/high voltage protection of battery, overheat protection and failsafe function.
- 电调接收机一体化设计，节省设备空间，整体重量也得到减轻，让车架布局走线更加简洁方便。
 - PPX7 防水防尘性能，轻松应对各种复杂环境。
 - 支持发射机实时设置电调参数，无需额外连接调参设备，无需拆动车架，让设置变得更简单。
 - 两种运行模式和四种拖刹力度可调，一款就可以满足绝大部分车型的应用。
 - 内置车灯控制驱动功能。
 - 多重保护功能：电池过压或过高保护、整机过热保护、电调驱动堵转保护、失控保护功能。

Transmitter Battery Installation 发射机电池安装

 Danger 危险	Only use specified battery (X4 AA 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. 准请勿将电池置于高温环境或液体中。
 Danger 危险	Do not drop the battery or expose to strong shocks or vibrations. 请注意防止电池跌落、碰撞或振动。
 Danger 危险	Always store the battery in a cool, dry place. 请将电池存放在干燥阴凉的环境中。
 Danger 危险	Do not use the battery if damaged. 如果电池损坏，请立即停止使用。

Battery Type: AA

1. Open the battery compartment cover.
 2. Insert 4 fully-charged AA batteries into the compartment. Make sure it is connected with the correct polarity to avoid damage.
 3. Replace battery compartment cover.
- Low Battery Voltage Alarm: When the voltage battery is lower than 4.2V, the G.LED on the transmitter panel will flash slowly

电池类型使用：AA 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 AA 电池装入电池仓内，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，面板上的 G.LED 慢闪报警提示。

Receiver Installation 接收器的安装

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 receiver's 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.

确保接收器安装在模型内的适当位置，以确保信号稳定、最大范围并减轻外部干扰，请遵循以下准则：

安装接收器时请注意以下事项：

1. 确保接收器未安装在电机或电气噪声源附近。
2. 使接收器的天线远离碳或金属等导电材料。为确保正常功能，请确保天线与导电材料之间至少有 1cm 的间隙。

 Caution 注意	To prevent damage do not power on the receiver during installation. 为防止损坏，安装期间请勿打开接收器电源。
--	---

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, and the R.LED will be solid on.
3. Power on the receiver.
 - 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

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

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

LED Indicator LED 指示

1. R.LED: The red power indicator;
 2. G.LED: The green status indicator;
 3. Car Battery: ESC battery power indicator
 - When the power is high, the Car Battery LED will be solid on in green.
 - When the power is medium, the Car Battery LED will be solid on in yellow.
 - When the power is low, the Car Battery LED will be solid on in red.
 - When the power is ultra low, the Car Battery LED will be flash slow in red.
 - When the receiver is not connected, the Car Battery 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. Car Battery: 电调电池电量指示灯
 - 电量高时，指示灯绿色常亮
 - 电量中时，指示灯黄色常亮
 - 电量低时，指示灯红色常亮
 - 电量过低时，指示灯红色慢闪
 - 接收机掉码时，保持最后的指示状态

Binding 对码

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

1. Turn on the transmitter while holding the BIND button, then the transmitter will enter the bind mode. At this time, the G.LED will start flashing quickly. Once in bind mode, release the BIND button.
2. Turn on the receiver, and it will wait for 1 second for connection. If without connection, the receiver will enter the binding mode automatically.
3. Once the binding is successful, the receiver LED and the G.LED of the transmitter will be solid on.

Note: In case of 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. 将发射机按住对码键开机进入对码状态，此时 G.LED 快闪，松开“BIND”键。
2. 接收机上电等待 1 秒没有连接将自动进入对码；
3. 对码成功后，接收机指示灯常亮；

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。

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 steering wheel clockwise to the max travel point and push the throttle trigger forwards as far as possible, and at the same time turn on the transmitter, the transmitter will be in calibration mode.
 - The R.LED and G.LED will work in two-flash-one-off mode.
 - The Car Battery LED will be solid on in yellow.
2. Calibrate steering wheel: Turn the steering wheel to max and min travel end point in clockwise and counterclockwise.
 - The R.LED will be off.
 - The Car Battery 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.
 - The G.LED will be off.
 - The Car Battery LED will be solid on in green.
4. Both the steering wheel and the throttle trigger have been finished the calibration.
 - The Car Battery LED will be off.
5. Once the calibration is finished, press the BIND button to save and exit.

该功能可以用于方向手轮和油门扳机的中位角度修正。

发射机在出厂前已校准完成，如需要重新校准，请按照以下步骤执行。

1. 同步将手轮顺时针打到最大、扳机往前推到底并开机，进入校准模式功能；
 - R.LED 指示灯和 G.LED 指示灯二闪一灭
 - Car Battery 指示灯黄色常亮
2. 手轮校准：操作手轮顺时针和逆时针转到最大最小；
 - R.LED 指示灯灭
 - Car Battery 指示灯红色常亮
3. 扳机校准：往前往后推到最大最小；
 - G.LED 指示灯灭
 - Car Battery 指示灯绿色常亮
4. 手轮扳机均校准通过
 - Car Battery 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. Turn off the receiver.
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. 将开关拨到 [OFF] 位置, 使发射机关闭。



Danger
危险

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。

System Functions 系统功能

Channel Description 通道说明

The transmitter outputs a total of 4 channels, which are assigned as follows, 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 or slow servo channel, or to control car lights.
- CH4 Channel: The control is the CH4 button switch. Users can customize the channel function. For example, control car lights and control the car light switching mode.

Note: By default the output of CH4 is 1000us, after which pressing the button will toggle between 1000 and 2000us.

该发射机共输出 4 个通道, 分配如下:

- 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, 以及控制车灯等。
- CH4 通道: 控件为 CH4 按键开关, 可自定义通道功能, 如可控制车灯及控制车灯切换模式等。

注: CH4 按键开机默认输出 1000us, 按压操作一下通道值翻转一次, 数值在 1000us/2000us 之间互相切换。

Channel Reverse 通道反向

This function is used to adjust 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.

该功能用于调整舵机或马达的动作方向。

按键 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 trims for CH3 and CH4 as multiplexing mode. For multiplexing switching mode, see [Mode Switching].

The TH.TRIM switch is the trim for CH2(throttle).

Adjustment range: -120us ~ + 120us, each step is 4us;

ST.TRIM + / TH.TRIM + : Increase the trim value.

ST.TRIM- / TH.TRIM-: Decrease the trim value.

LED status in case of adjusting trims:

- When using the trim switches, the G.LED will flash slowly on short presses and quickly on long presses.
- When the trim value reaches 0 (Centered), the G.LED will flash twice slowly.
- When the trim value reaches both ends (+ 120us / -120us), the trim adjustment is at its maximum/minmum position and as such case, the G.LED will not flash(if the trim value has been adjusted to + 120us, then press ST.TRIM + / TH.TRIM + switches are invalid and the G.LED has no prompt).

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、CH4 微调, 复用切换方式见 [模式切换];

TH.TRIM 为 CH2 油门微调。

调节范围: -120us-+120us, 微调步进为 4us;

ST.TRIM+/TH.TRIM+: 增大微调值;

ST.TRIM-/TH.TRIM-: 减少微调值。

LED 指示情况:

- 操作一次微调键 G.LED 闪烁一次, 长按快闪
- 当微调值位于中点时 G.LED 慢闪 2 下
- 当微调值位于两端时 (+120us/-120us), 微调无效且 G.LED 无指示 (如微调值已调至 +120us, 此时按ST.TRIM+TH.TRIM+键无效且G.LED 无指示)

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

D/R 舵量调节

The ST. D/R switch is used for servo travel adjustment, and can also adjust the D/R for CH2 (throttle), CH3 and CH4 servo travel adjustment as multiplexing mode, see [Mode Switch] for multiplex switching mode;

Adjustment range: 0-120%(the default is 100%), the step is 5%.

ST.D / R +: Increase servo travel amount.

ST.D / R -: Decrease servo travel amount.

LED status in case of adjusting D/R:

- When using the D/R switches, the G.LED will flash slowly on short presses and quickly on long presses.
- When the D/R value reaches both ends (0/120%), the ST.D / R switch is at its maximum/minmum position and as such case, the G.LED will not flash(if the D/R value has been adjusted to 120%, then press ST.D/R+ switch is invalid and the G.LED has no prompt)

ST.D/R 为方向舵量调节, 可复用为 CH2 (油门)、CH3、CH4 舵量调节, 复用切换方式见 [模式切换];

调节范围: 0-120% (默认 100%), 步进为 5%;

ST.D/R+: 增加舵量;

ST.D/R-: 减小舵量;

LED 指示情况:

- 操作一次按键 G.LED 闪烁一次, 长按快闪
- 当比例值位于两端时 (0/120%), 按键无效且 G.LED 无指示 (如比例值已调至 120%, 此时按 ST.D/R+ 键无效且 G.LED无指示)

Mode Switching 模式切换

This function is for reusing the ST.TRIM switches and ST.D / R switch for different channels (see [Trims], [D/R]).

Setup:

Under normal power-on condition, quickly press the BIND button twice (within 1 second) to cycle through modes 1, 2, 3, and 4. By default, the mode 1 is used.

Mode 1: The G.LED slowly flashes once, the ST.TRIM switches are for CH1 trim adjustment, and the ST.D / R switch is for CH1 D/R adjustment.

Mode 2: The G.LED slowly flashes twice, the ST.TRIM switches are for CH1 trim adjustment, and the ST.D / R switch is for CH2 D/R adjustment.

Mode 3: The G.LED slowly flashes for three times, the ST.TRIM switches are for CH3 trim adjustment, and the ST.D / R switches are for CH3 D/R adjustment.

Mode 4: The G.LED slowly flashes for four times, the ST.TRIM switches are for CH4 trim adjustment, and the ST.D / R switch is for CH4 D/R adjustment.

此功能用于将 ST.TRIM 及 ST.D/R 按键复用于其他通道 (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、三、四, 开机默认为模式一。

模式一: G.LED 慢闪一次提示, ST.TRIM 为 CH1 微调, ST.D/R 为方向舵量调节;

模式二: G.LED 慢闪二次提示, ST.TRIM 为 CH1 微调, ST.D/R 为 CH2 舵量调节;

模式三: G.LED 慢闪三次提示, ST.TRIM 为 CH3 微调, ST.D/R 为 CH3 舵量调节;

模式四: G.LED 慢闪四次提示, ST.TRIM 为 CH4 微调, ST.D/R 为 CH4 舵量调节;

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 ESC motor channel will enter the brake state when the receiver is out of control. By default, the failsafe for CH1, CH3 and CH4 channels are not set, and can be set at the transmitter side, and these three channels will not 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.

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。该发射机默认已设置失控保护为失控后接收机无信号输出。

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 who is new to the hobby.

In this mode, the throttle will be limited to output 50 percent, The channel range defaults to 1250~1500~1750us.

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.

System Functions 系统功能

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。

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

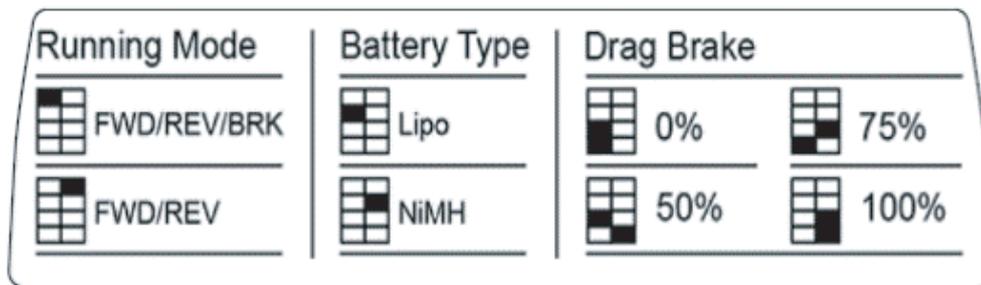
功能设置：

1. 按住 CH4 按键，同时方向手轮逆时针打到底；
2. 维持以上动作同时开机；

以上步骤可用于切换初学者模式和正常模式。

注：出厂默认为正常模式，开机时 G.LED 灯二闪一灭持续 3 秒，代表此次进入初学者模式。

ESC Parameters Setting 电调参数设置



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 left and right.

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 crawlers.

Setup:

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

Battery Type

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

Setup:

Toggle the No. 2 slide switch to the left, then the battery type is set to Lipo. Toggle the No. 2 slide switch to the right, 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 natural range, it will produce certain braking force to the motor, the larger the value is, the greater the drag brake force is. Select proper drag brake force according to the actual situation.

Setup:

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

System Functions 系统功能

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，通过左右拨动可以实现对上述参数项的设置。

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 的拨码开关拨至左侧，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 的拨码开关拨至右侧，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 的拨码开关拨至左侧，电池类型即设置为锂电池。将发射机面板上编号为 2 的拨码开关拨至右侧，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 的拨码开关拨至左侧，拖刹力度即设置为 0%；将发射机面板上编号为 3 的拨码开关拨至左侧，编号为 4 的拨码开关拨至右侧，拖刹力度即设置为 50%；将发射机面板上编号为 3 的拨码开关拨至右侧，编号为 4 的拨码开关拨至左侧，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 的拨码开关拨至右侧，拖刹力度即设置为 100%。

Reset Data 数据复位

To reset the function data.

Setup:

Press and hold the BIND button and CH4 button while powering on the transmitter, to reset the function data. The G.LED will slowly flash twice for prompt when the data have been reset successfully.

Note: The failsafe setting and binding information will not be reset.

此功能用于将发射机功能参数恢复为默认值。

功能设置：

按住 BIND 按键和 CH4 按键并开机，即恢复数据，G.LED 指示灯慢闪 2 下提示复位成功。

注：失控保护设置和对码信息不复位。

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 °C /194 °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°C /194 °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。
 - 使用完毕后，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通道微调后，接收机须重新通电以识别新的油门通道中位，否则可能会出现倒车异常的现象。

Protect Function 保护功能说明

This receiver has low/high voltage protection function.

Low Voltage Protection: The receiver will enter 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 quickly flash for prompt.

Note: The ESC LED flashes slowly and continuously; When the voltage is normal, then the receiver will exit the protection state.

The receiver supports the overheating protection function.

Overheating protection: When the receiver enters the overheating protection state in case of the high internal temperature of the ESC, CH2 motor channel has no output. The others output normally, and all the car lights flash fast for prompt. The CH2 motor channel will output normally when the temperature is back to normal.

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，车灯慢闪提示。
- 电压过高保护：当电池电压过高时，所有通道无输出，所有车灯快闪提示。

注：处于保护状态时，电调 LED 持续慢闪提示；待电压正常后，退出保护状态。

本接收机电调具有过热保护功能。

- 过热保护：当检测到电调内部温度过高时，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。

ESC Function Instructions 电调功能使用说明**Connect Related Equipment**

Make sure the receiver is off before connection. Connect the motor to motor cable "+" and "-" interfaces of the receiver. Connect the servo to the 3Pin interface ("-", "+", "S" are connected correspondingly). 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, move the throttle trigger to the neutral position. After the calibration is successful, the ESC LED makes a long flash once and the motor gives a long beep for prompt. If the calibration has failed, the ESC LED quickly flashes continuously and at the same time the motor gives continuous fast beep for prompt. And the motor has no output.

2. Turn on the receiver. If the battery of ESC is 2S LiPo, the ESC LED quickly flashes twice (three times for 3S Lipo), and the motor gives fast twice beeps(three times for 3S Lipo); If the battery of ESC is NiMH cells, then the ESC LED flashes quickly once, and the motor gives a fast beep.

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 and the red LED of ESC flashes quickly after power on, it means that the actual throttle trigger of the transmitter is not at the neutral position, move the throttle trigger to the neutral position until the red LED of ESC does not flash.
3. If the rotation direction is not correct during running, exchange the two wires connecting the motor and the receiver.
4. To make sure everything is ok, please turn on the transmitter first and then the receiver, turn off the receiver first and then the transmitter.

Description of LED Status During Normal Operation

- The ESC LED is off when the throttle trigger is at the neutral position without any operation, and the motor has no output.
- The ESC LED quickly flashes when the vehicle moves forward, and is solid on when the trigger is at the end position of forward/brake(100% or -100% throttle).
- The ESC LED quickly flashes when reversing or in failsafe state.

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，将电机与马达线 "+"、"-" 接口相连接，舵机接到 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。

校准油门中位：

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点位置（自然状态）。若中位校准通过，电调 LED 长闪 1 次，马达长响一声提示；若中位校准不通过，电调 LED 持续快闪，同时马达持续快响提示，此时马达无动力输出。
2. 最后一步打开接收机开关，当电调电池类型为锂电时，如使用 2S 锂电，则电调 LED 快闪 2 次（3 次代表 3S 锂电），马达快响两声（3 次代表 3S 锂电）；若为镍氢，则电调 LED 快闪一次，马达快响一声。

注:

1. 电调功能必须等到开机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, 且电调红色 LED 快闪, 说明发射机实际油门不在中点位置。请查看发射机油门微调是否置于“0”位置, 微调油门中点直到电调红色 LED 不闪即可;
3. 若运行时发现电机转向不对, 将电调接电机的两根线互换位置即可;
4. 为了一切正常, 请养成先开发射机再接收机通电以及先接收机断电再关闭发射机的习惯。

电调处于正常工作状态:

- 油门扳机处于中位时且无操作, 电调 LED 常灭, 马达无动力输出;
- 前进时, 电调 LED 快闪; 当油门处于正向最大 (100% 油门) 时, 电调 LED 变成常亮;
- 油门处于反向最大 (100% 刹车) 时, 电调 LED 变成常亮;
- 电调处于倒车状态或处于失控保护状态时, 电调 LED 快闪提示。

ESC Drag Brake Force 电调拖刹力度

The receiver supports the function of setting drag brake force at the transmitter side. It can be set to four levels: 0, 50%, 75% or 100%. The default drag brake force is 0. Refer to [ESC Parameters Setting] for details.

本接收机支持在发射机端设置电调力度。可设置力度为 0、50%、75% 或 100%。默认力度为 0。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 to two modes: FWD/REV/BRK(Forward/Reverse/Brake) or FWD/REV(Forward/Reverse). Refer to [ESC Parameters 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 to two types: LiPo or NiMH. Refer to [ESC Parameters 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.

Note: If in emergency state, emergency lights keep last state in case of out-of-control. For other modes of car light, all lights turn off in case of out-of-control.

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。

注: 若处于车灯处于应急灯状态, 则失控后保持最后状态; 若处于其他车灯模式, 则失控后车灯全部关闭。

Troubleshootings 故障快速处理

Troubles 故障现象	Possible Causes 可能原因	Solutions 解决方法
<p>The motor cannot start and the LEDs are not on after power on.</p> <p>上电后,指示灯不亮,电机无法启动</p>	<p>1. The ESC has no working voltage. 2. The switch of ESC or ESC itself is damaged.</p> <p>1. 电调没有得到工作电压 2. 电调开关或电调损坏</p>	<p>1. Check whether there is any connection problem between the battery and ESC and whether there is faulty welding of the relevant plug. 2. Return to factory for inspection and treatment.</p> <p>1. 检查电池与电调有无连接问题以及相关插头是否有虚焊情况; 2. 返厂检测处理。</p>
<p>The motor cannot start and the red ESC LED flashes quickly after power on.</p> <p>上电后电调红色 LED 灯快速闪烁,电机无法启动</p>	<p>The neutral of throttle channel of transmitter is shift or changed.</p> <p>发射机油门通道的中点偏移或改变</p>	<p>Adjust the throttle channel of the transmitter to match the existing neutral point (until the red LED does not flash).</p> <p>调节发射机油门通道微调使之匹配电调现有中立点(直到红灯不闪)。</p>
<p>When forward the car by the transmitter, it reverse.</p> <p>发射机做前进操作,车子反而倒退</p>	<p>1. It may caused by the connection sequence between output line of ESC and motor line. 2. The throttle direction of transmitter is wrongly set.</p> <p>1. 电调输出线和电机线的连接线序错误 2. 发射机油门方向设置错误</p>	<p>1. Exchange the position of two lines of motor. 2. Set throttle direction of transmitter to the opposite direction.</p> <p>1. 将电机的两条线互换位置即可; 2. 将发射机油门方向设置为相反方向。</p>
<p>The motor suddenly stops rotating during rotation.</p> <p>电机转动过程中,突然停转</p>	<p>1. The throttle signal is lost. 2. The ESC enters low/high voltage protection or overheat protection of battery.</p> <p>1. 油门信号丢失; 2. 电调进入电池低压保护或过热保护。</p>	<p>1. Check the transmitter and the receiver. 2. The red ESC LED will flash in a single cycle. Please check the battery voltage and the temperature of the ESC.</p> <p>1. 检查发射机和接收机; 2. 电调红灯会单次循环闪烁,请检查电池电压以及电调温度。</p>
<p>When the motor starts, it accelerates rapidly, and the motor is stuck or stops</p> <p>电机启动时急加速,电机有卡住或停顿的现象</p>	<p>1. Battery discharge capacity is insufficient 2. The rotation speed of motor is too fast, the gear ratio is not reasonable.</p> <p>1. 电池放电能力不够; 2. 电机转速过高,齿轮比搭配不合适。</p>	<p>1. Replace battery with strong discharge capacity. 2. Replace low speed motor, or increase the reduction ratio.</p> <p>1. 更换放电能力强的电池; 2. 更换低速电机,或将减速比提高。</p>

Transmitter Specifications 发射机规格

Product Model	FS-G4P1-BS	产品型号	FS-G4P1-BS
Compatible Receivers	FS-R4D-ESC-BS, FS-R4A3-BS	适配接收机	FS-R4D-ESC-BS、FS-R4A3-BS
Channels	4	通道个数	4
Model Type	Car	适配模型	车
RF	2.4GHz ISM	无线频率	2.4GHz ISM
Maximum Power	<20dBm (e.i.r.p.) (EU)	发射功率	< 20dBm
RF Protocol	2A-BS	无线协议	2A-BS
Distance	>150m	遥控距离	>150m (空旷无干扰地面距离)
Resolution	4096	通道分辨率	4096 级
Battery	6V/DC or 1.5AA*4	输入电源	6V/DC 或 1.5AA*4
Charging Interface	None	充电接口	无
Low Voltage Alarm	<4.2V	低电压报警	<4.2V
Antenna	Single Built-in Antenna	天线类型	内置单天线
Data Interface	None	数据接口	无
Temperature Range	-10℃ ~ +60℃	温度范围	-10℃ ~ +60℃
Humidity Range	20% ~ 95%	湿度范围	20% ~ 95%
Online Update	None	在线更新	无
Dimensions	160*193*97mm	外形尺寸	160*193*97mm
Weight	220g	机身重量	220g
Certifications	CE, FCC ID: N4ZG4P00	认证	CE, FCC ID: N4ZG4P00

Receiver Introduction 接收机介绍

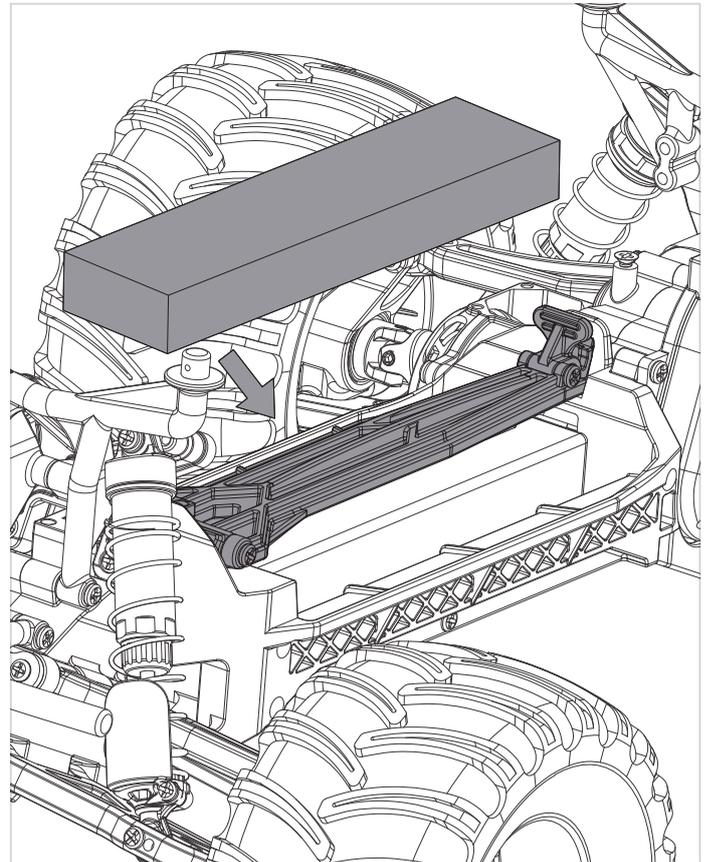
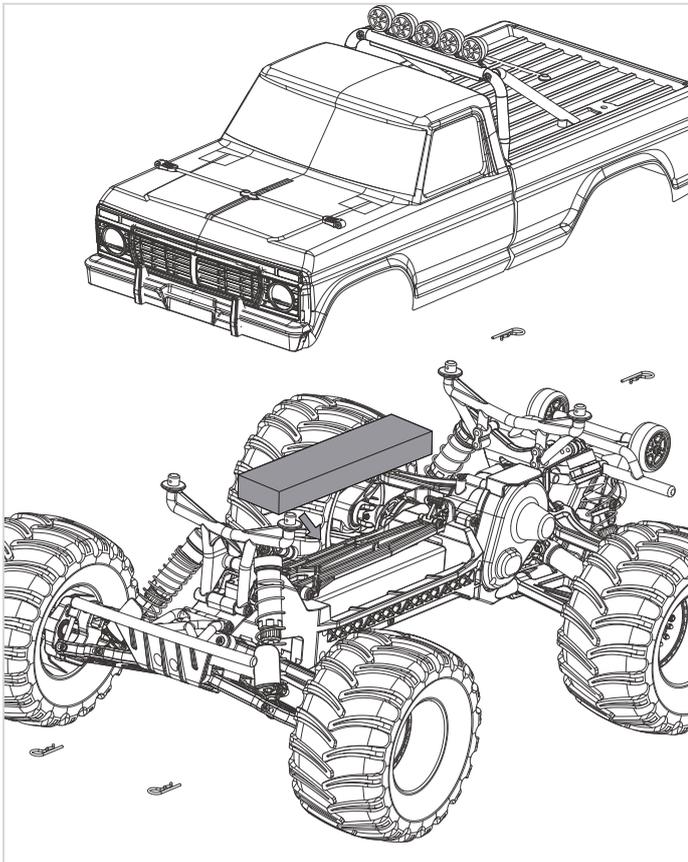
Receiver Specifications 接收机规格

Product Model	FS-R4D-ESC-BS	产品型号	FS-R4D-ESC-BS
Compatible Transmitters	FS-G4P1-BS, FS-MG41-BS	适配发射机	FS-G4P1-BS、FS-MG41-BS
Applicable Motors	540, 390, 370 or 280 Brushed Motor	适用电机	540、390、370 或 280 有刷电机
Main Applications	1:10 Crawler Car, Short-course Truck or Truck	主要应用	1: 10 攀爬车、平路、 越野短卡和卡车
LiPo/NiMH Cells	2S Lipo	支持电池节数	2S 锂电
Continuous / Peak Current	40A/200A	持续 / 峰值电流	40A/200A
Parameter Setting	Transmitter	参数设置方式	发射机
Number of Channels	4	通道个数	4
Number of Light Interfaces	6	车灯组数	6
RF	2.4GHz ISM	无线频率	2.4GHz ISM
2.4GHz Protocol	2A-BS	无线协议	2A-BS
BEC Output	6V/3A	BEC 输出	6V/3A
Maximum Power	< 20dBm (e.i.r.p.) (EU)	发射功率	<20dBm
Distance	>150m (ground distance without Interference)	遥控距离	>150m (空旷无干扰 地面距离)
Antenna Type	Single External Antenna	天线类型	外置单天线 (同轴天线)
Channel Resolution	4096	通道分辨率	4096
Data Interface	PWM	数据输出	PWM
Temperature Range	-10℃ ~ +60℃	温度范围	-10℃ ~ +60℃
Humidity Range	20% ~ 95%	湿度范围	20% ~ 95%
Online Update	None	在线更新	无
WaterProof	PPX7	防水等级	PPX7
Weight	43g	机身重量	43g
Dimensions	44.0mm*30.0mm*16.7mm	外形尺寸	44.0m*30.0mm*16.7mm
Certifications	CE, FCC ID: 2A2UNR4DESC01	认证	CE, FCC ID: 2A2UNR4DESC01

Battery Precautions 电池注意事项

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

Connecting the battery 连接电池



1. Pull out the 4 shell buckles at the front and rear of the car and separate the car shell from the chassis.
 2. As shown in the picture. Loosen the latch of the battery cover and lift the battery cover; Put the battery into the battery compartment, then cover the battery cover, lock the latch; Finally connect the battery to the ESC/receiver 2-in-1 assembly;
 3. Fit the car shell against the chassis and insert the 4 buckles to lock the car shell;
1. 将车头和车尾的4个车壳扣拔出，打开车壳。
 2. 如图所示。将电池盖板的锁扣松开，并掀开电池盖板，电池放入电池仓内，再盖上电池盖板，锁紧锁扣，最后连接电池至电调/接收二合一组件；
 3. 将车壳4个孔位对准车壳支架装入，将4个车壳扣插入锁紧车壳；



Note
注意

1. Please remove the battery immediately after use (allow time for the battery to cool down) and do not store the battery inside the model product for an extended period.
 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.
- 1、请在使用后立即取出电池（需等待电池降温），不可将电池长时间存放在模型产品内。
 - 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。

Spare Parts List

配件列表

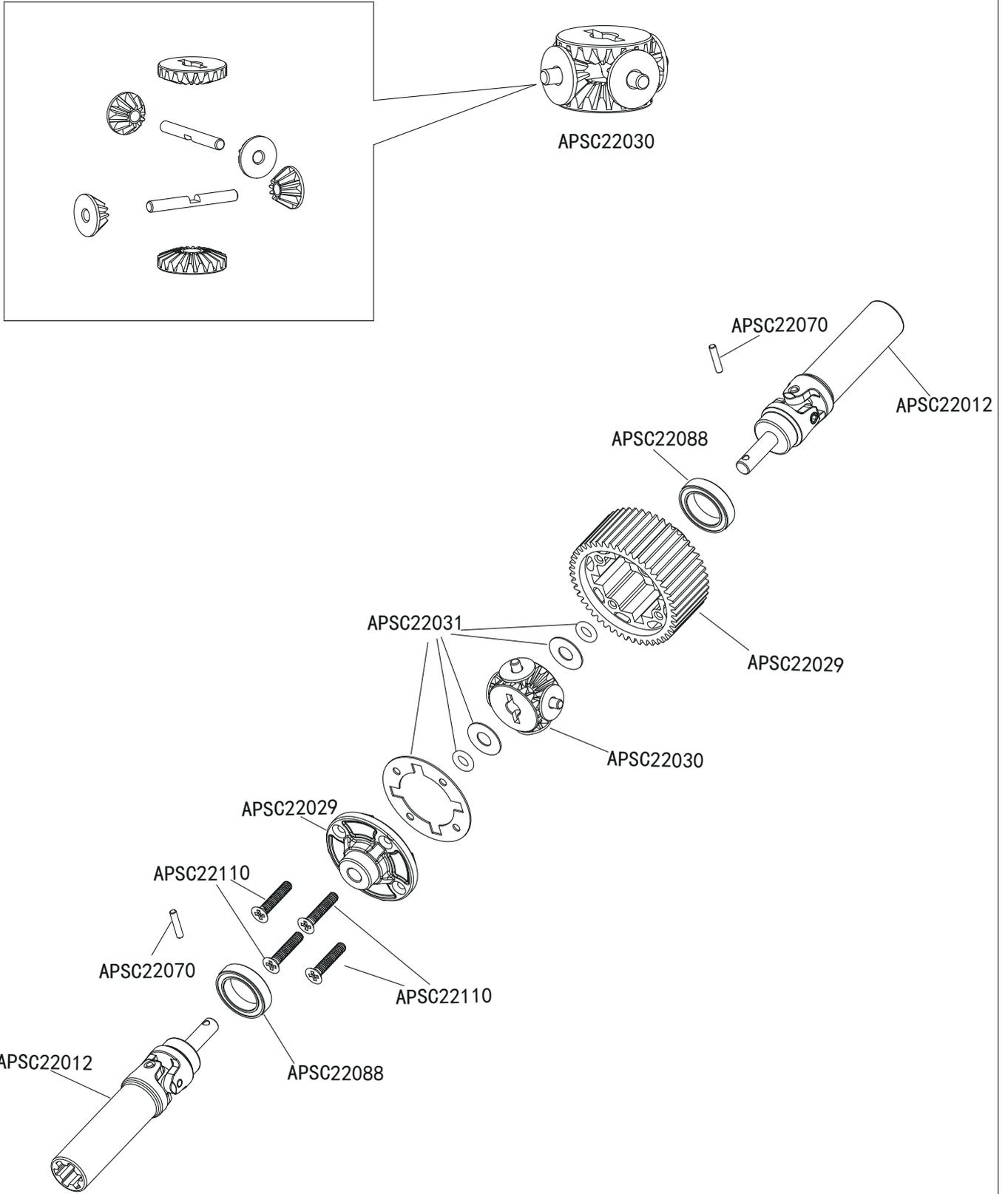
APSC22000	Steering Block(Left and right)	转向座左/右
APSC22001	C-Hub	c座
APSC22002	Front Upper arm	前上摆臂
APSC22003	Front Lower arm	前下摆臂
APSC22004	Rear Upper Arm	后上摆臂
APSC22005	Rear Lower Arm	后下摆臂
APSC22006	Shock Tower(Front&Rear)	前/后避震板
APSC22007	Body mount(Front&Rear)	前/后车壳柱
APSC22008	Front Bumper	前防撞
APSC22009	Rear Bumper	后防撞
APSC22010	Wheelie Bar Set	抬头轮组
APSC22011	CVD Drive Shaft Set	万向轴公/母头
APSC22012	CVD Driveshaft Sleeve	万向轴差速端
APSC22013	CVD Axle Sleeve	万向轴轮轴端
APSC22014	Rear Hub	后轴座
APSC22015	Wheel Hex	六角轮座
APSC22016	Rear Lower Clip	后下夹片
APSC22017	Front Upper Clip	前上夹片
APSC22018	Front Lower Clip	前下夹片
APSC22019	Steering Linkage	转向拉杆
APSC22020	Steering Servo Arm	转向舵机臂
APSC22021	Chassis	底板
APSC22022	Chassis Rear	底板后
APSC22023	Battery Cover	电池盖板
APSC22024	Gear Box	齿轮箱
APSC22025	Receiver&ESC Mount	电调固定板
APSC22026	Motor Cover	马达保护罩
APSC22027	Gear Cover	齿轮保护罩
APSC22028	Differential Set	差速器
APSC22029	Differential Cover	差速壳/差速器后盖
APSC22030	Differential Gear Set	差速齿轮组
APSC22031	Differential Gasket	差速器密封垫片/O型圈
APSC22032	61T Spur Gear	减速大齿轮61T
APSC22033	Slipper Paper	限滑环保纸
APSC22034	Slipper Sheet	限滑钢片
APSC22035	Transmission Gear 29T	传动齿轮29T
APSC22036	15T Gear	二级减速齿轮15T
APSC22037	Pinion Gear	马达齿轮
APSC22038	Reduction Shaft	减速轴/T型套
APSC22039	Front Wheel Driveshaft	前轮轴
APSC22040	Motor Mount Plate	马达板
APSC22041	Front Shock Absorber set	前避震器
APSC22042	Rear Shock Absorber set	后避震器
APSC22043	Front Shock Body-short	前避震筒-短

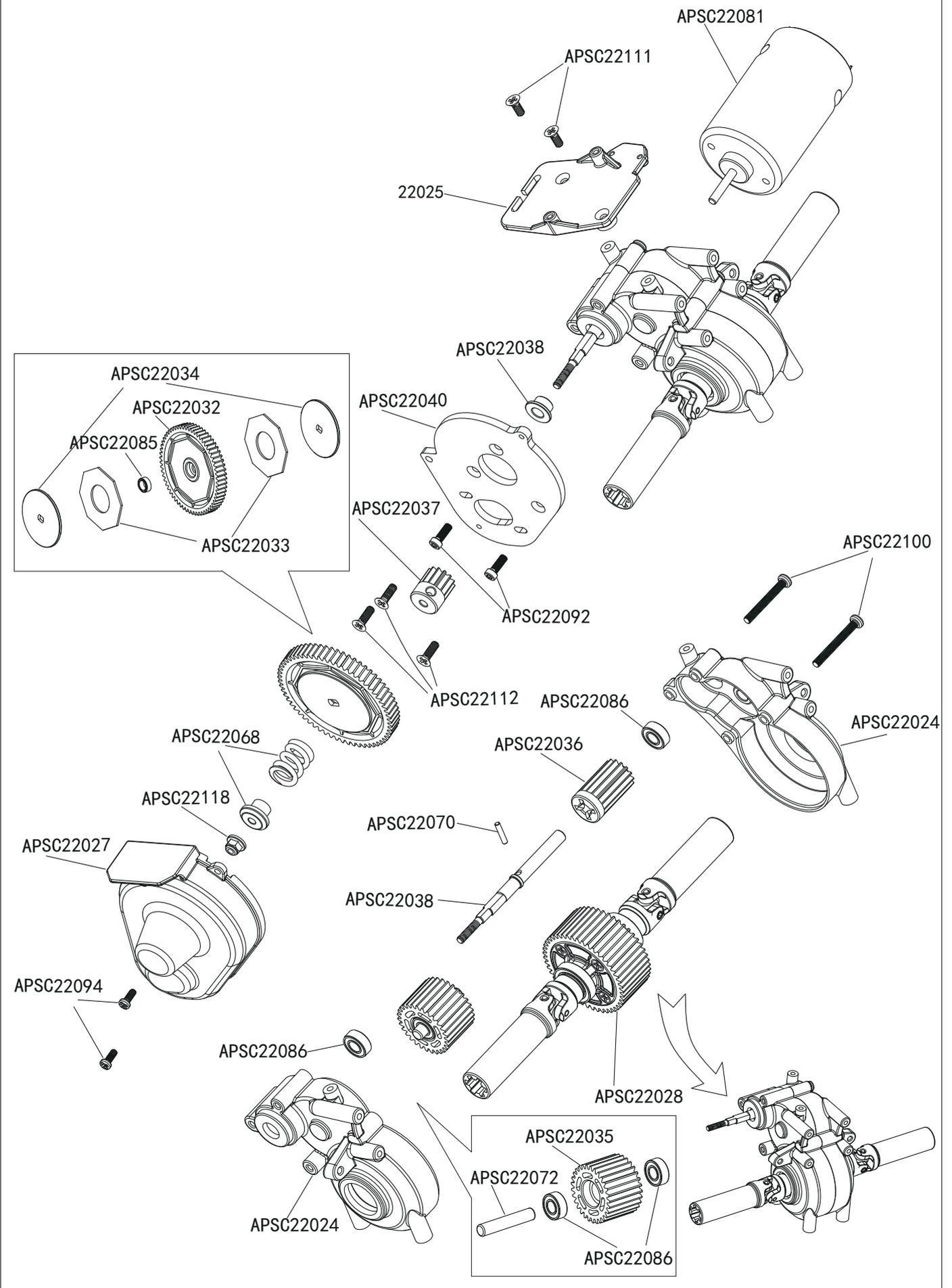
Spare Parts List 配件列表

APSC22044	Rear Shock Body-long	后避震筒-长
APSC22045	Front Shock Shaft Set-short	前避震轴-短
APSC22046	Rear Shock Shaft Set-long	后避震轴-长
APSC22047	Upper Shock Cover	避震上盖
APSC22048	Lower Shock Cover	避震下盖
APSC22049	Shock Piston with Spacer Sleeve	避震活塞/避震隔套
APSC22050	Shock Rod End	避震下球头座
APSC22051	Shock Rod	避震弹簧上卡座
APSC22052	Shock Rod End and Spring Cups	避震弹簧下座
APSC22053	Shock Adjustment Ring 3mm	避震调节环3mm
APSC22054	Shock Adjustment Ring 5mm	避震调节环5mm
APSC22055	Shock O-Ring	避震上/下盖密封圈
APSC22056	Shock X-Ring	避震x型圈
APSC22057	Grille	车壳中网
APSC22058	Wheel and Tire Mounted	轮胎组
APSC22059	Tires	胎皮
APSC22060	Wheel hub	轮框
APSC22061	Car Body Set	车壳组
APSC22062	Rooftop Rack with Spotlight Bracket	防滚架/顶灯组
APSC22063	Car Body	车壳
APSC22064	R buckle	车壳R扣
APSC22065	Body Post Spring Clip Set	车壳R扣胶条
APSC22066	Front Shock Spring Set-short	前避震弹簧-短
APSC22067	Rear Shock Spring Set-long	后避震弹簧-长
APSC22068	Slipper Springs	减速限滑弹簧/隔套
APSC22069	Servo Saver Spring	舵机缓冲弹簧
APSC22070	Pin 2*10mm	销子2*10
APSC22071	Pin 2.5*12mm	销子2.5*12
APSC22072	Pin 5*27mm	销子5*27
APSC22073	Pin 3*33mm	销子3*33
APSC22074	Pin 3*38mm	销子3*38
APSC22075	Pin 3*40mm	销子3*40
APSC22076	Pin 4*75mm	销子4*75
APSC22077	Steering Link Pivot Ball Set	转向拉杆球头
APSC22078	Suspension Link Pivot Ball Set	摆臂球头
APSC22079	Shock Pivot Ball Upper Set	避震球头上
APSC22080	Shock Pivot Ball Lower Set	避震球头下
APSC22081	550 Brushed Motor	马达
APSC22082	15kg Servo	15kg舵机
APSC22083	2 in 1 Receiver&ESC	电调/接收机二合一
APSC22084	Transmitter	遥控器
APSC22085	Ball Bearing 8*5*3mm	轴承8*5*3
APSC22086	Ball Bearing 11*5*4mm	轴承11*5*4
APSC22087	Ball Bearing 12*6*4mm	轴承12*6*4

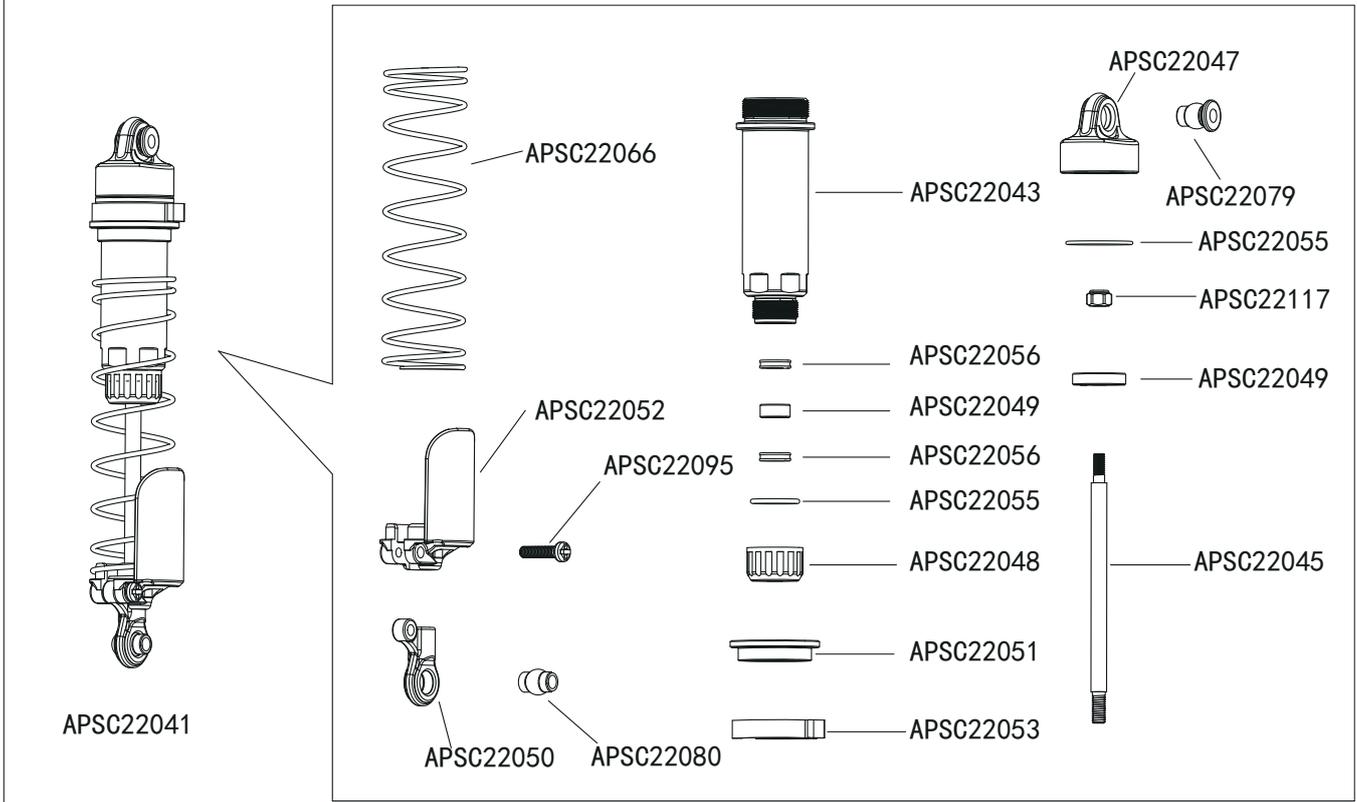
Spare Parts List 配件列表

APSC22088	Ball Bearing 18*12*4mm	轴承18*12*4
APSC22089	Spacer 14*5.1*0.3	垫片14*5.1*0.3
APSC22090	Screw Shaft 3*48	螺丝轴3*48
APSC22091	Screw Shaft 3*30	螺丝轴3*30
APSC22092	Cap Head Hex Screw M3*8	圆柱头内六角螺丝M3*8
APSC22093	Botton Head Hex Screw M2*6	盘头内六角螺丝M2*6
APSC22094	Botton Head Hex Screw M2.5*6	盘头内六角螺丝M2.5*6
APSC22095	Botton Head Hex Screw M2.5*10	盘头内六角螺丝M2.5*10
APSC22096	Botton Head Hex Screw M3*10	盘头内六角螺丝M3*10
APSC22097	Botton Head Hex Screw M3*16	盘头内六角螺丝M3*16
APSC22098	Botton Head Hex Screw M3*18	盘头内六角螺丝M3*18
APSC22099	Botton Head Hex Screw M3*20	盘头内六角螺丝M3*20
APSC22100	Botton Head Hex Screw M3*24	盘头内六角螺丝M3*24
APSC22101	Botton Head Pointer Screw ST2.5*14	盘头十字自攻牙螺丝ST2.5*14
APSC22102	Botton Head Pointer Screw ST3*10	盘头十字自攻牙螺丝ST3*10
APSC22103	Botton Head Pointer Screw ST3*12	盘头十字自攻牙螺丝ST3*12
APSC22104	Botton Head Pointer Screw ST3*14	盘头十字自攻牙螺丝ST3*14
APSC22105	Botton Head Pointer Screw ST3*14	盘头十字自攻牙螺丝ST3*14
APSC22106	Botton Head Pointer Screw ST3*20	盘头十字自攻牙螺丝ST3*20
APSC22107	Botton Head Pointer Screw ST3*28	盘头十字自攻牙螺丝ST3*28
APSC22108	Botton Head Pointer Screw ST3*34	盘头十字自攻牙螺丝ST3*34
APSC22109	Botton Head Pointer Screw ST3*38	盘头十字自攻牙螺丝ST3*38
APSC22110	Flat Head Hex Screw M2.5*10	平头内六角螺丝M2.5*10
APSC22111	Flat Head Hex Screw M3*6	平头内六角螺丝M3*6
APSC22112	Flat Head Hex Screw M3*8	平头内六角螺丝M3*8
APSC22113	Flat Head Hex Screw M3*10	平头内六角螺丝M3*10
APSC22114	Flat Head Hex Screw M3*16	平头内六角螺丝M3*16
APSC22115	Botton Head Hex Screw M2*4	盘头内六角介子螺丝M2*4
APSC22116	Headless Screws M4*4	机米螺丝M4*4
APSC22117	Nylon Flange Lock Nuts M2.5	尼龙螺母M2.5
APSC22118	Nylon Flange Lock Nuts M3	法兰尼龙螺母M3
APSC22119	Nylon Flange Lock Nuts M4	法兰尼龙螺母M4

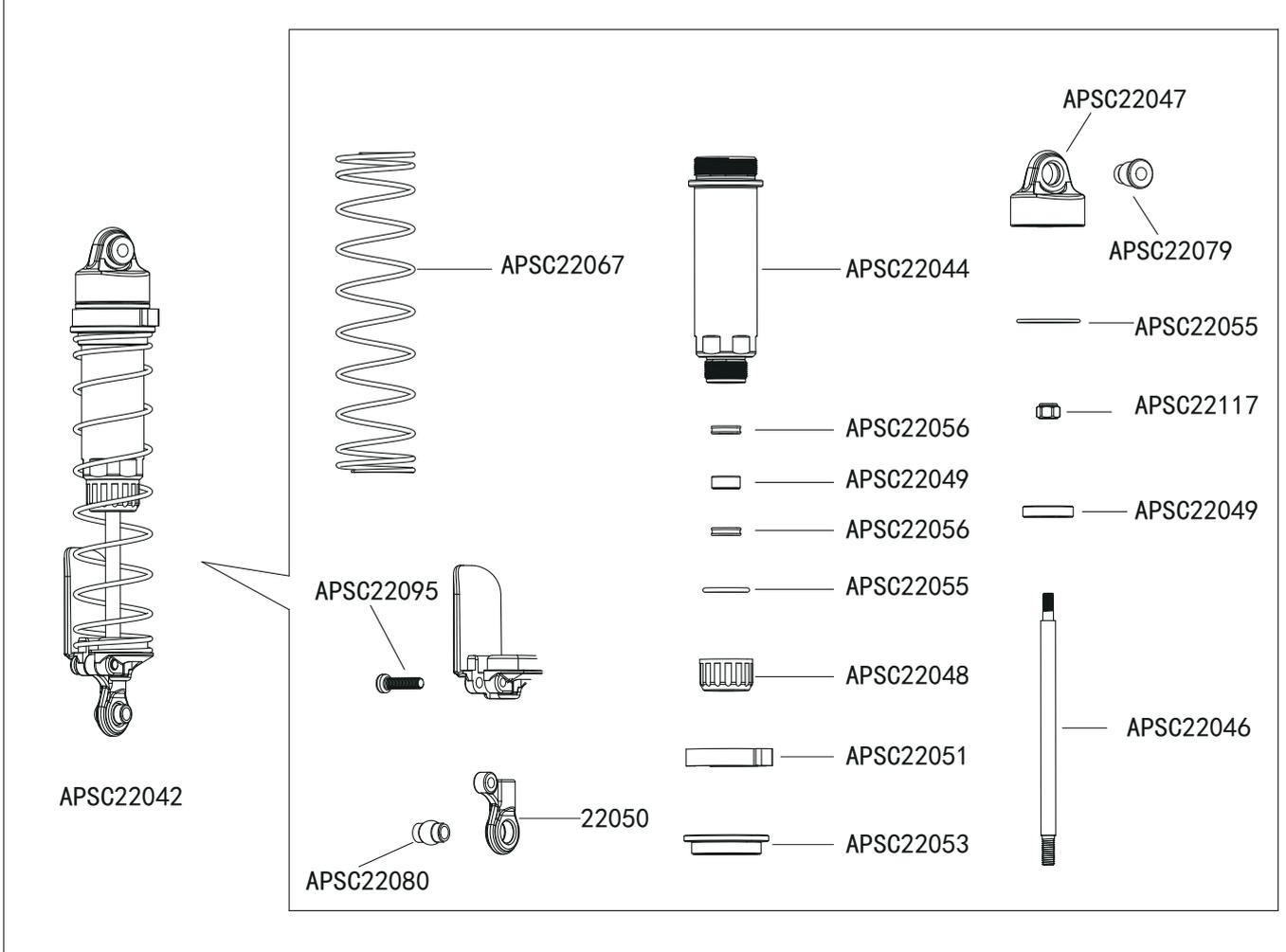




EN:Front Oil Shock Absorbers Assembly CN:前避震器组装

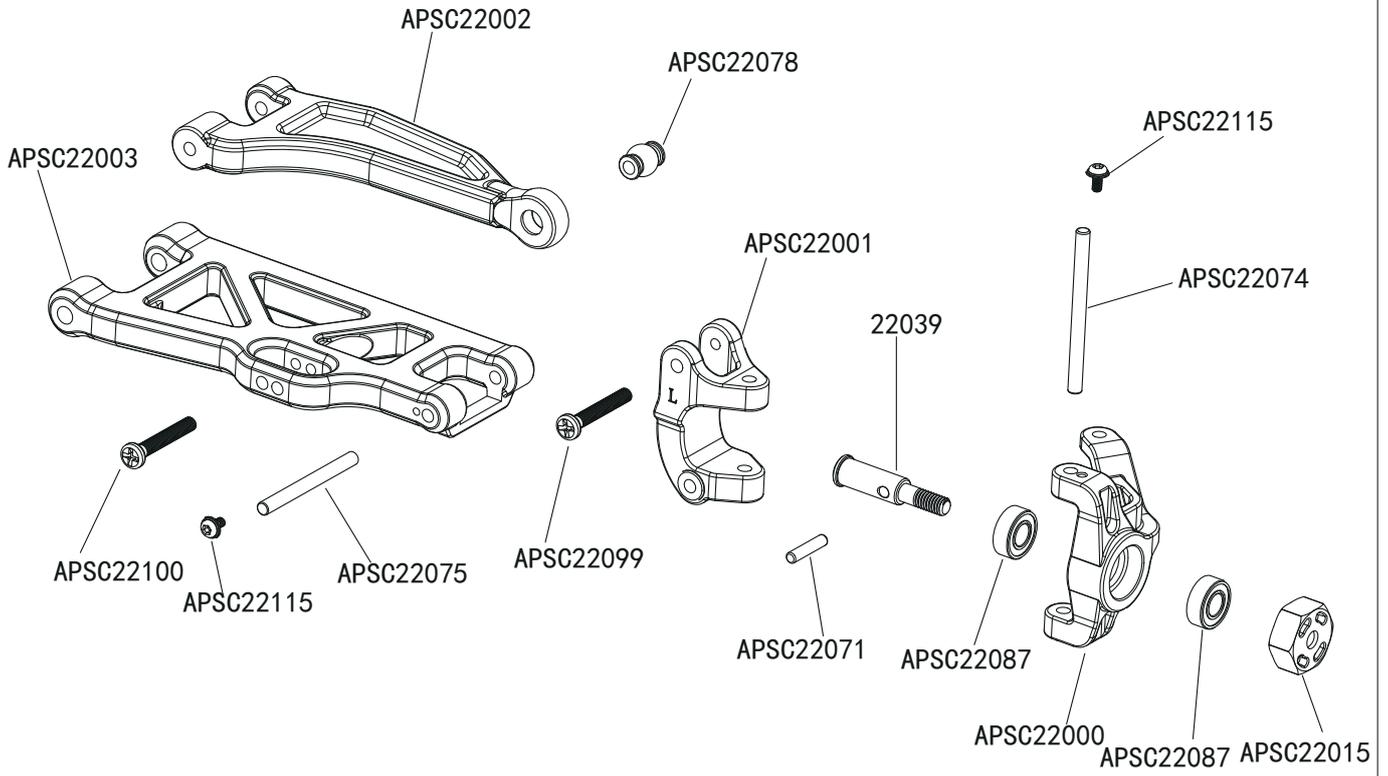


EN:Rear Oil Shock Absorbers Assembly CN:后避震器组装



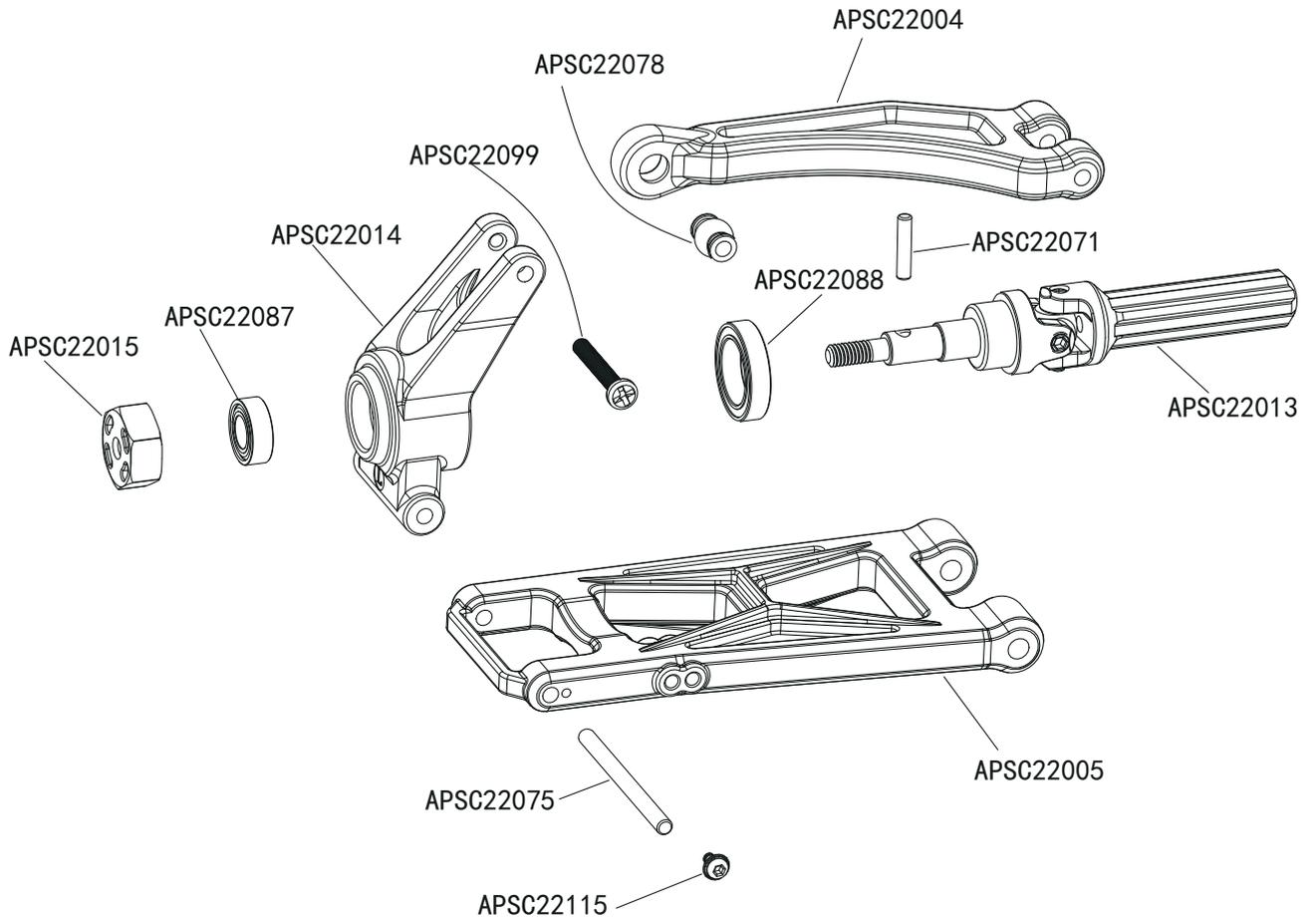
EN:Front Suspension Arm Set

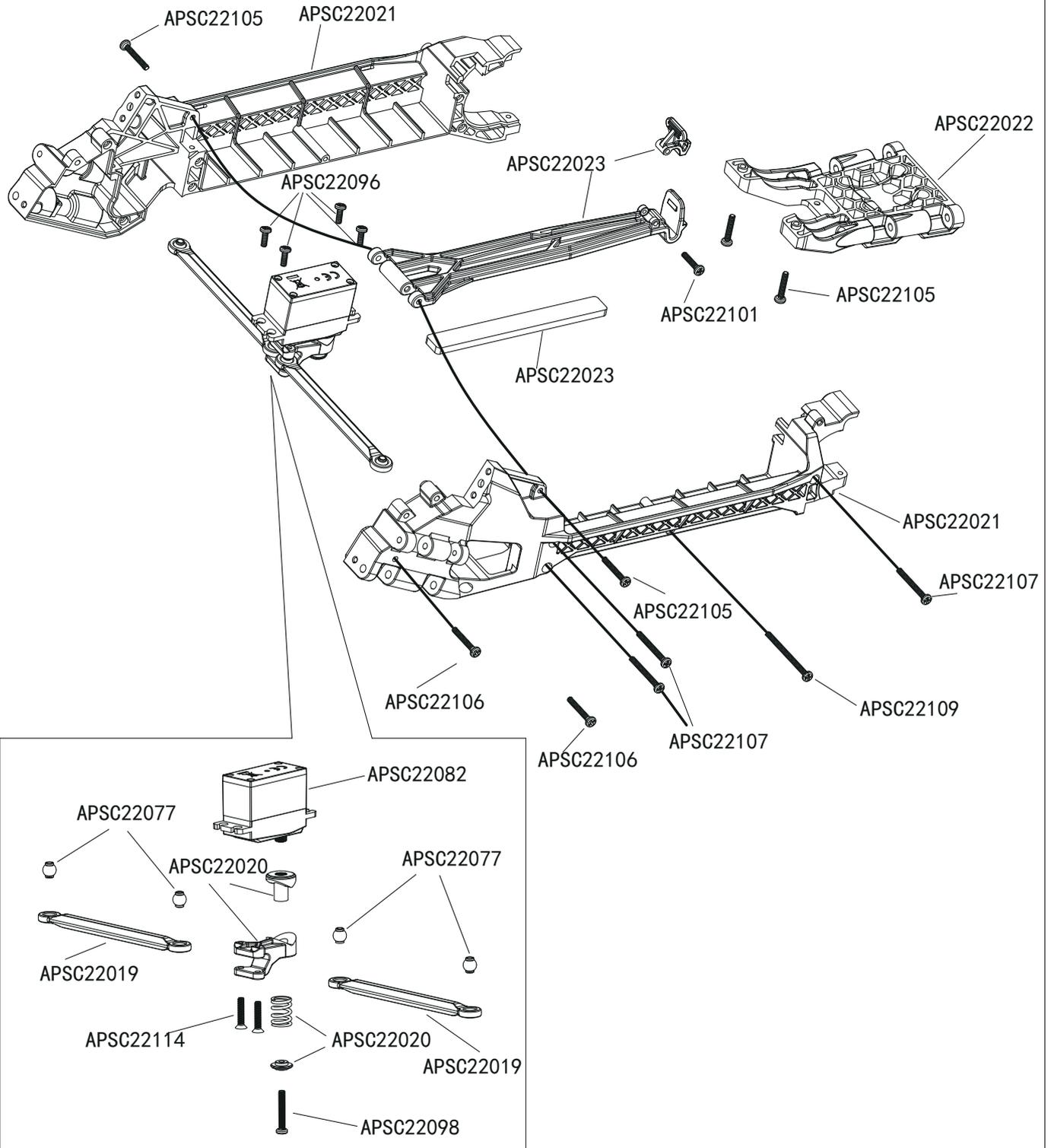
CN:前摆臂组

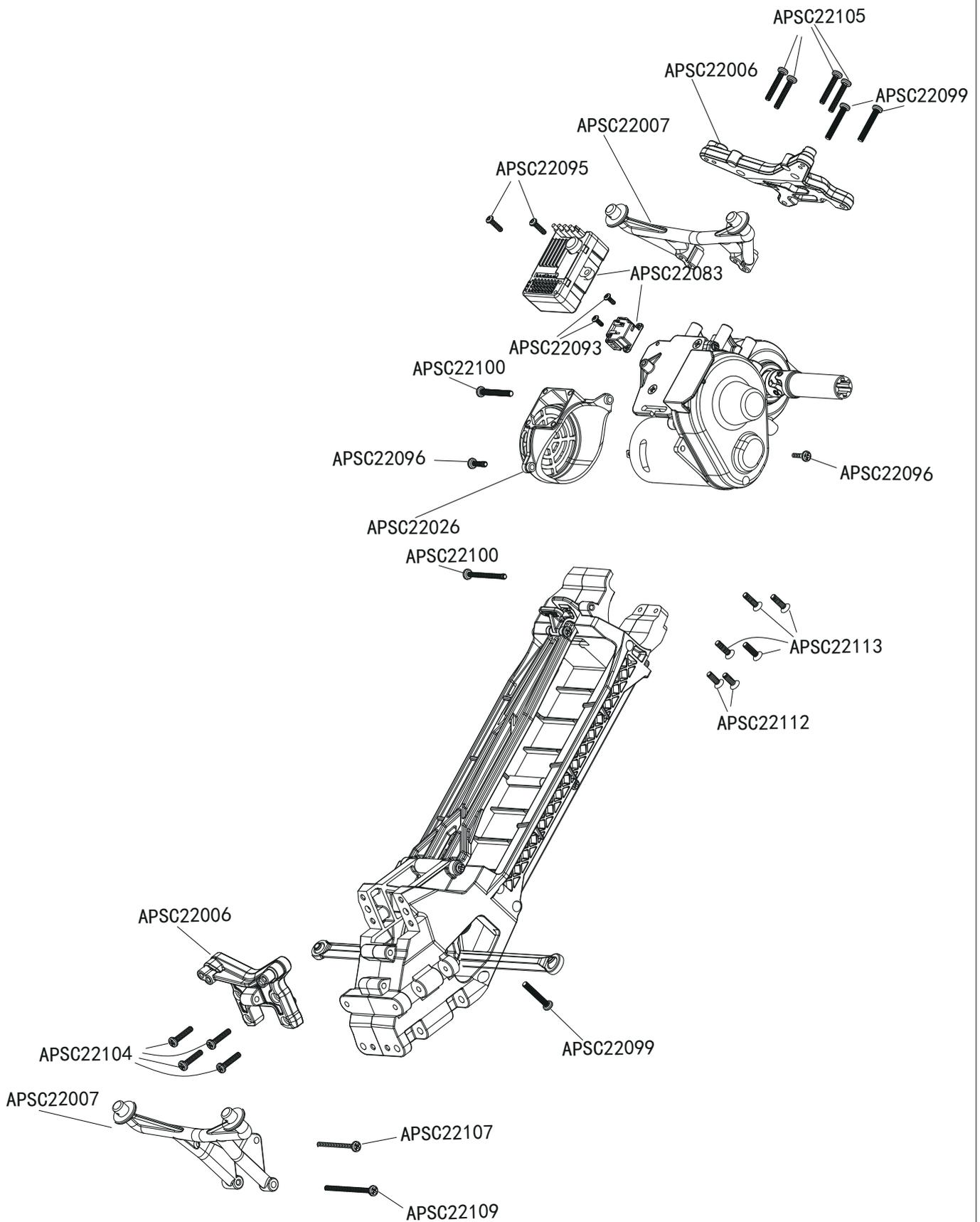


EN:Rear Suspension Arm Set

CN:后摆臂组

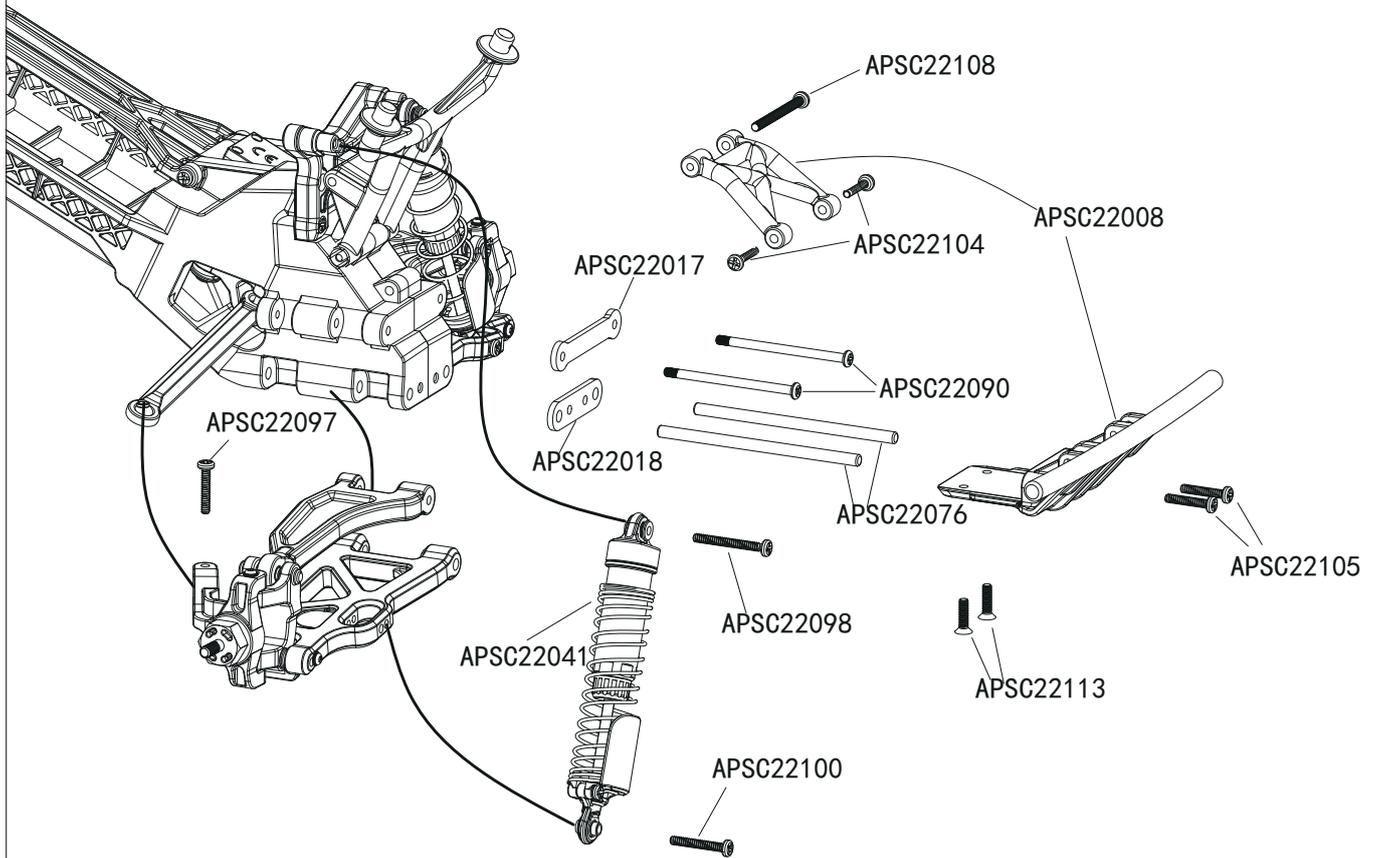






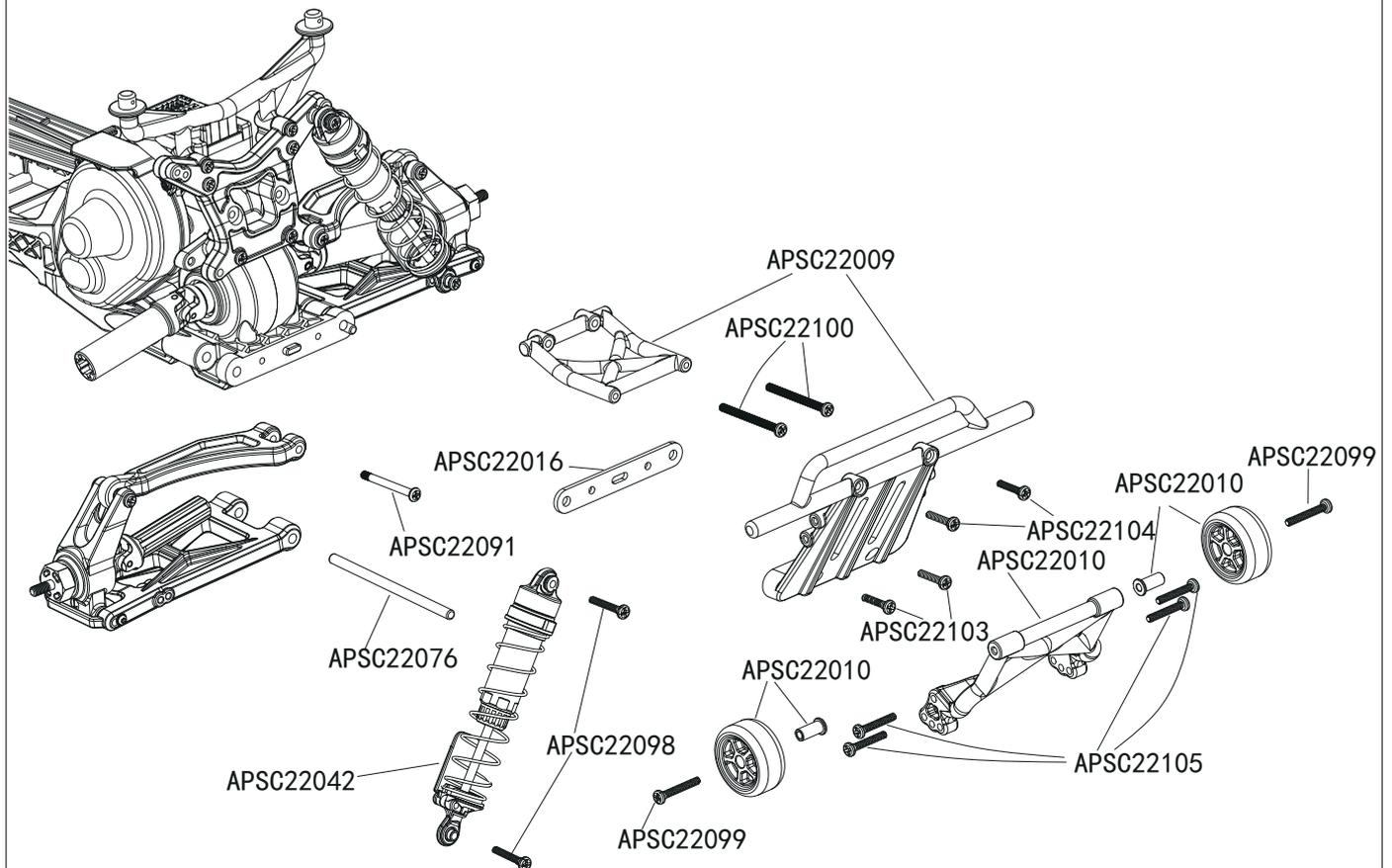
EN:Semi-Finished Chassis Set C

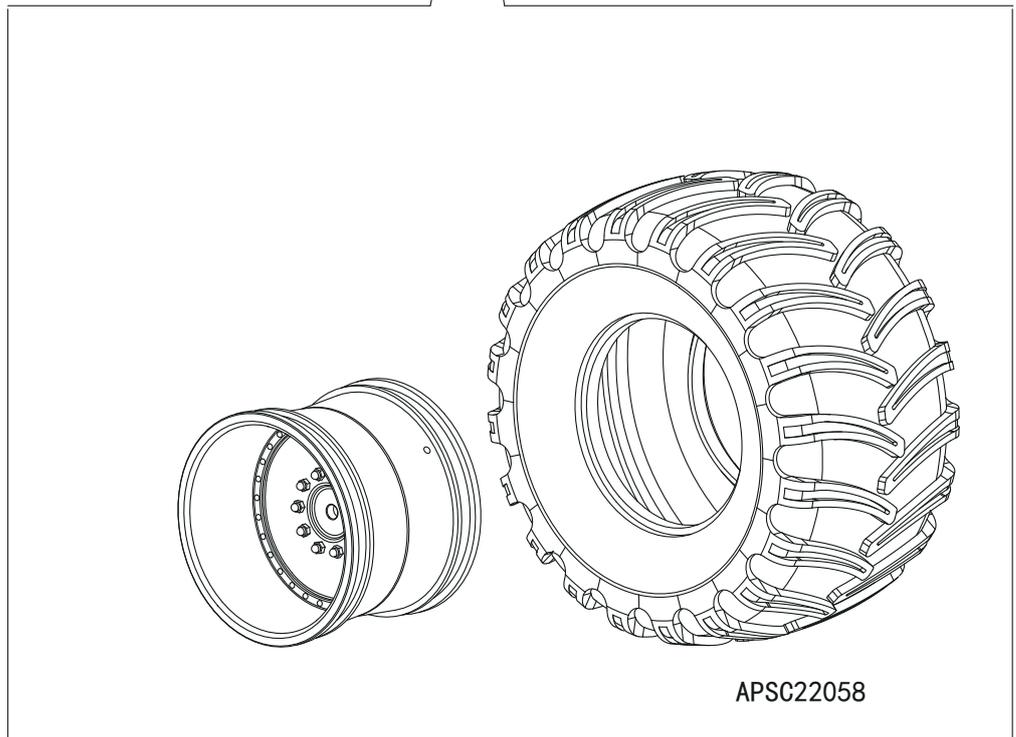
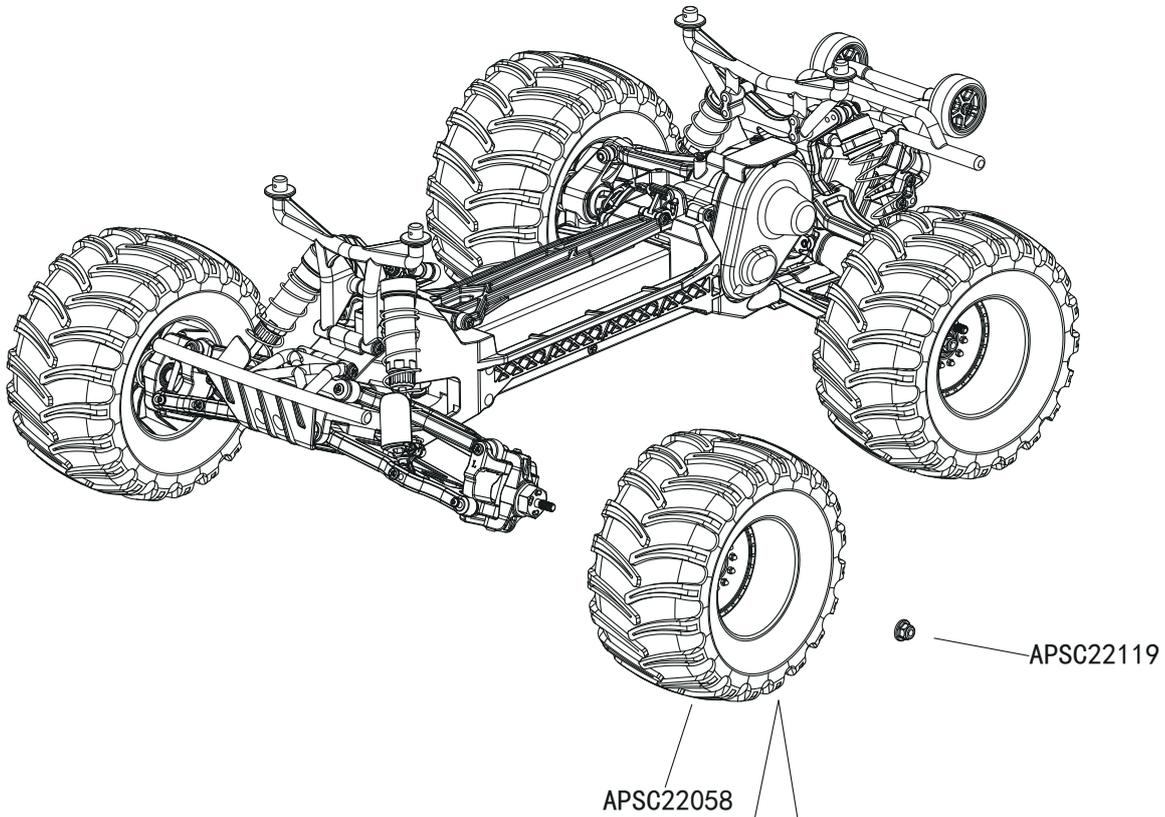
CN:底盘半成品组 C

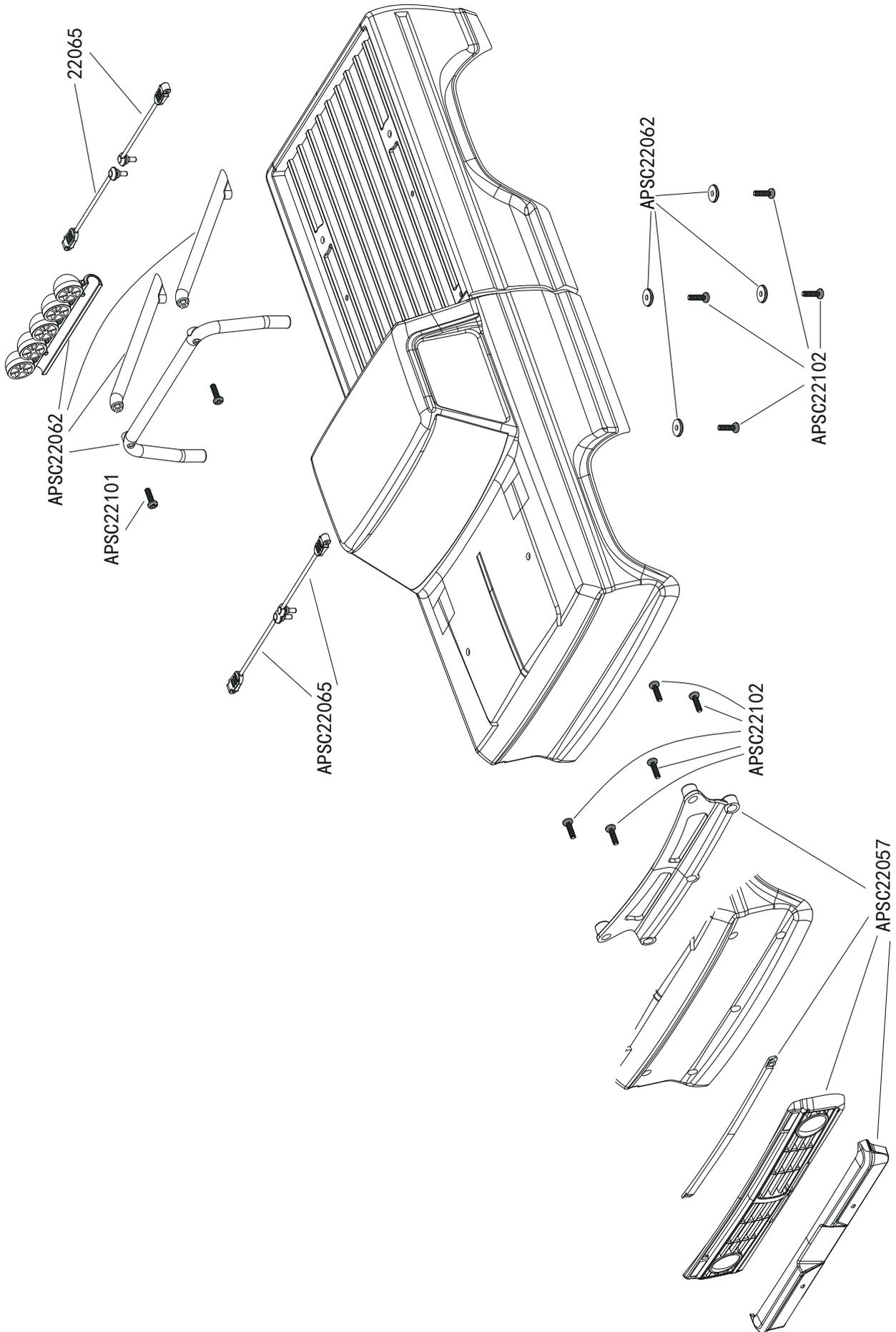


EN:Semi-Finished Chassis Set D

CN:底盘半成品组 D







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APSC22064

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