TERRANAUT

8X8 ACTIVE-AWS

FLYSKY

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如果您在使用中遇到任何问题，请先查阅发射机使用说明书。如果问题仍未得到解决，请直接联系当地经销商或者访问官网联系客服人员。

注意事项！

开始操作前请务必阅读以下安全信息！

- 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设备失灵。
- 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

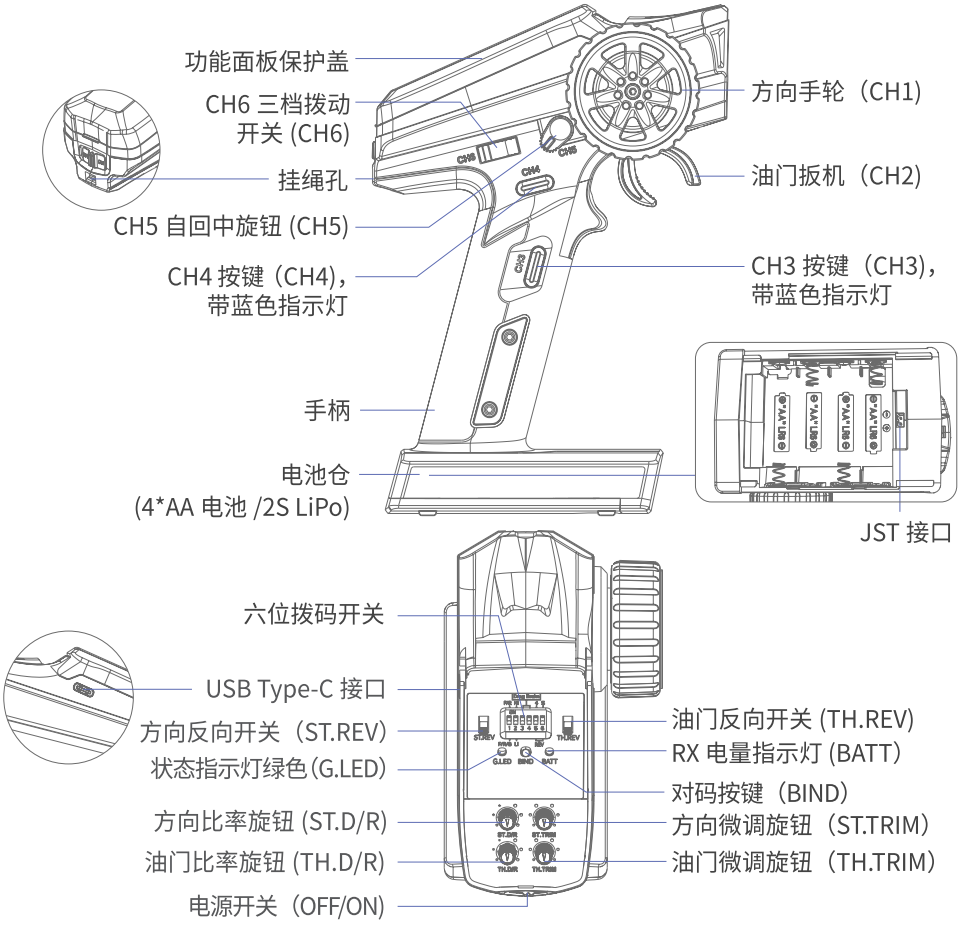
人多的地方或道路附近

有客船的水域

高压电线或通信广播天线附近

- 当你感到疲倦、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。
- 在使用过程中，严禁紧握发射机天线，否则将会大大减弱无线电传播信号的质量和强度，导致遥控失灵模型失控。
- 在操作或使用模型后，请勿触摸任何可能发热的部位，如发动机、电机、定速设定等。这些部件可能非常热，容易造成严重的烧伤。
- 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。
- 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。
- 当遥控距离持续较远时，有发生失控的可能。请适当缩短遥控的距离。
- 特此，【ShenZhen FLYSKY Technology Co., Ltd.】声明无线电设备【FS-HBP-MG6A-BS&FS-HBP-R6A4-BS】符合 RED2014/53/EU. 欧盟 DoC 声明、FCC 声明可在以下互联网地址：www.flyskytech.com/info_detail/10.html 获取。
- 此发射机所用天线的安装必须与所有人员保持距离，不得与任何其他发射机共用或一起使用。必须向最终用户和安装人员提供天线安装说明和发射机操作条件，以满足射频暴露合规要求。
- 注意：使用类型不正确的电池可能发生爆炸风险，请妥善处理使用完的电池。

发射机概览

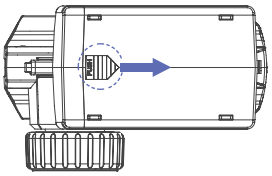


基本操作

AA 电池安装

请按照以下步骤安装 AA 电池：

1. 打开电池仓盖（如图所示）；
2. 将 4 颗电量充足的 AA 电池按标注的极性方向装入电池仓内；
3. 盖好电池仓盖。



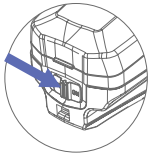
按住此处并向前滑动，取下电池仓盖。

LiPo 锂电池安装

请按照以下步骤安装锂电池：

1. 打开电池仓盖；
2. 将电量充足的 2S 锂电池放入电池仓内；
3. 将电池导线接入 JST 接口；
4. 盖好电池仓盖，注意不要夹到电池导线。

开机



请按照以下步骤打开发射机：

1. 检查系统状态，确保电池电量充足且安装正确；
2. 将电源开关拨到 [ON] 位置，G.LED 指示灯常亮。

对码

本发射机和接收机在出厂前已对码成功。若需使用其他的接收机，请按照如下步骤进行对码。本发射机支持双向对码，对码步骤如下：

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

摇杆校准

当油门、手轮和 CH5 自回中旋钮发生机械性偏离，如回中或最大 / 最小行程出现偏差时，使用此功能修正。步骤如下：

1. 将手轮顺时针打到最大、扳机向前推到底并开机，发射机即进入校准模式，此时蜂鸣器响 3 声循环提示；
2. 手轮校准：将手轮分别按顺时针和逆时针方向旋转至最大和最小行程，蜂鸣器响 2 声循环提示；
3. 扳机校准：将扳机分别向前和向后推至最大和最小行程，蜂鸣器响 1 声循环提示；
4. CH5 自回中旋钮校准：将 CH5 自回中旋钮分别按顺时针和逆时针方向旋至最大和最小行程，蜂鸣器长响 1 声提示；
5. 按 BIND 键退出并保存校准数据，发射机蜂鸣器长响 1 声提示。
   若校准失败，按 BIND 键无反应，请重复以上校准步骤。

数据复位

用于将设置的舵量数值恢复为默认值。

按住 BIND 按键和 CH4 按键，并通电开机，即恢复成默认值，蜂鸣器长响一声提示。

注：此功能仅适用于复位舵量至默认值。

失控保护

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。

失控后，接收机 CH2 失控保护默认开启，电调进入刹车模式，其他通道保持最后输出。若其他通道已在发射机端设置，则按照设置值输出；同时左、右车灯同步慢闪提示（仅车灯模式设置为模式 5 时）。

可在发射机端设置其他通道（CH1、CH4、CH5 和 CH6）失控后输出的失控保护值，设置步骤如下：

开机正常状态下，先操作需要设置失控保护的通道所对应的控件至合适的位置，再长按对码按键（BIND） 3 秒，即将当下输出的通道值设置为该通道失控保护值。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。

关机

请按以下步骤关闭发射机：

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

关闭发射机之前，请务必先断开接收机电源，然后关闭发射机。如果强行关闭发射机，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。

规格参数

产品型号	FS-HBP-MG6A-BS
适配接收机	FS-HBP-R6A4-BS
适配模型	仿真攀爬车
通道个数	6
无线频率	2.4GHz ISM
发射功率	<20dBm
无线协议	2A-BS
通道分辨率	4096 级
输入电源	1.5AA*4 或 2S 锂电池
低电压报警	AA 电池：<4.2V；LiPo 电池：<7.0V
天线类型	内置单天线
充电接口	无（USB Type-C 接口仅做供电使用 ）
固件更新	不支持
数据接口	无
遥控距离	≥ 150m(空旷无干扰地面距离)
温度范围	-10°C ~ +60°C
湿度范围	20% ~ 95%
外形尺寸	135.7*189.5*82.7mm
机身重量	217g
机身颜色	黑色
认证	CE，FCC ID: 2A2UNMG110O

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FLYSKY

Thank you for purchasing the products of Flysky! To find out more about our products, visit our website at www.flysky-cn.com. If you encounter any problems during using, please refer to the manual first. If the problem is still not resolved, consult your local dealer directly or contact the customer service staff via Flysky official website.

Precautions

Read the safety messages listed below before operation!

- Do not use the product at night or during bad weather conditions, like rain or thunderstorms. It can cause erratic operation or loss of control.
- Do not use the product when visibility is limited.
- Do not expose the product to rain or snow. 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 sites where other radio control activity may occur

Near people or roads

On any pond/ lake when passenger boats are present

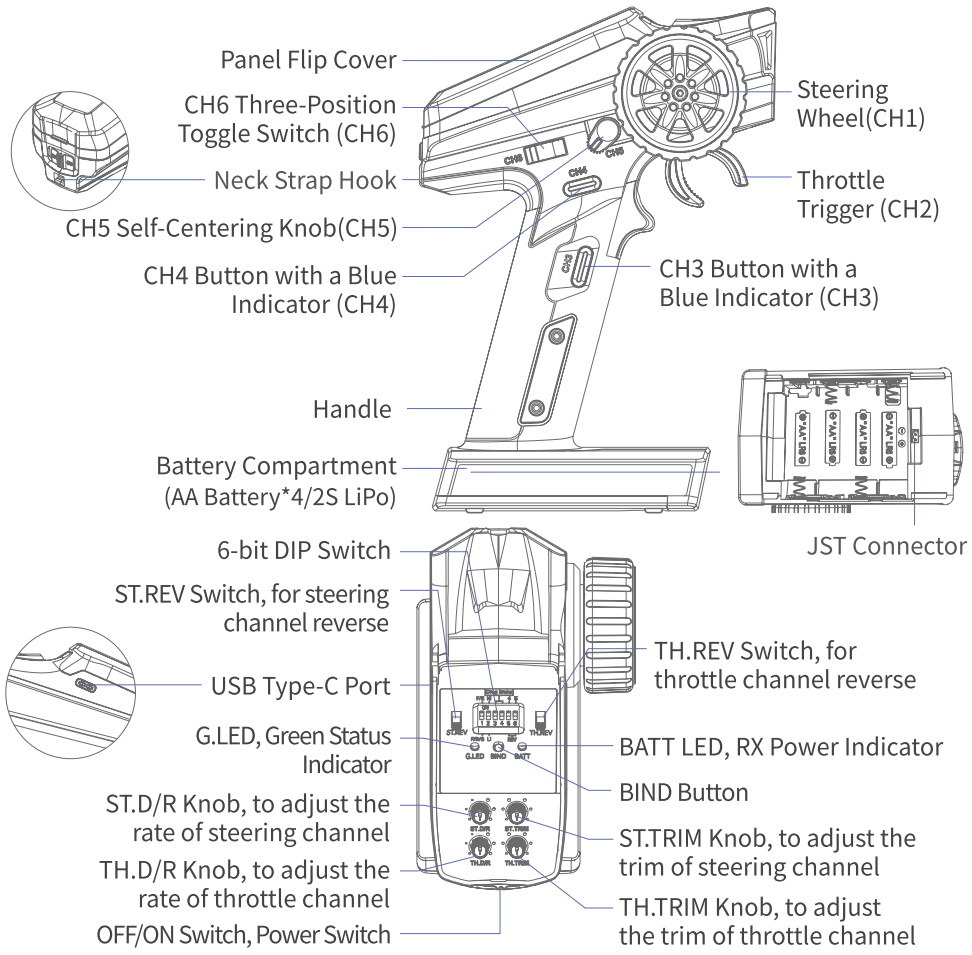
Near power lines or communication broadcasting antennas

- 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 can block the RF signal and lead to loss of control.
- Never grip the transmitter antenna during operation. It significantly degrades signal quality and strength and may cause 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.
- 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 carefully.
- Make sure the product is properly installed in your model. Failure to do so may result in serious injury.
- Ensure that all servos operate in the correct direction. If not, adjust the direction first.
- Make sure that the model stays within range in order to prevent loss of control.
- 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.

CAUTION!

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

Transmitter Overview

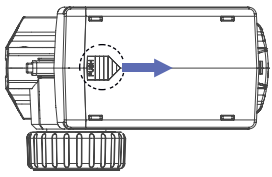


Basic Operations

Installing the AA Battery

Follow the steps below to install the AA batteries:

1. Open the battery compartment cover as illustrated.
2. Insert 4 fully-charged AA batteries into the compartment. Make sure that the batteries are well set according to the polarities marked on the battery compartment.
3. Replace the battery compartment cover.



Press and slide forward to remove cover.

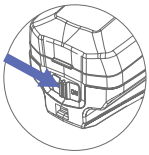
Installing the LiPo Battery

Follow the steps below to install the LiPo battery:

1. Open the battery compartment cover.
2. Insert a fully-charged 2S LiPo battery into the compartment.

3. Plug the wiring of LiPo battery into the JST connector.
4. Replace the battery compartment cover. Mind not to pinch the wiring.

Powering ON



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. The G.LED will be solid on.

Binding

The transmitter and the receiver have been pre-bound before delivery. If you are going to use another receiver, follow the steps below to rebind. The transmitter supports two-way binding, the steps are as following:

1. Turn on the transmitter while holding the BIND button, then the transmitter will enter the binding mode. At this time, the G.LED will start flashing quickly. Once in binding 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. At this time, the receiver LED will be flashing fast.
3. Once the binding is finished, the receiver LED and the transmitter G.LED will be solid on.
4. Verify that the transmitter and the receiver are working properly. If you need to re-bind, repeat the above steps.

Stick Calibration

Use this function to correct for the mechanical deviation of the throttle trigger, steering wheel and CH5 Self-centering knob, for example, deviation occurred in the self-centering or maximum/minimum travel, the steps are as following:

1. To enter calibration mode, turn on the transmitter while simultaneously rotating the steering wheel fully clockwise and pushing the throttle trigger to its maximum forward position, the buzzer will sound three times cyclically for prompt.
2. Steering Wheel Calibration: Rotate the steering wheel to maximum and minimum travel positions, clockwise and counterclockwise respectively, and the buzzer will sound two times cyclically.
3. Throttle Trigger Calibration: Push/pull the throttle trigger to its maximum forward and backward positions, and the buzzer will sound once cyclically.
4. CH5 Self-Centering Knob Calibration: Turn the CH5 Self-Centering knob to its maximum and minimum travel points, clockwise/anticlockwise respectively, and the buzzer will give a long beep.
5. Press the BIND button to save and exit in case of the calibration is successful, and the buzzer will give a long beep.

   If the calibration fails, pressing the BIND button is invalid. Repeat the steps above.

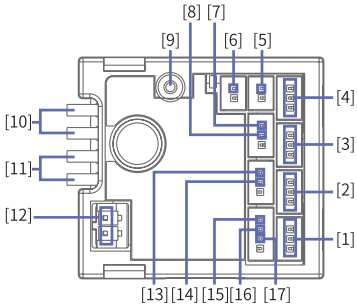
Data Reset

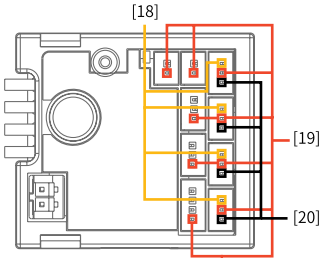
Used to restore the set end point value to the default value.

Press and hold the BIND and CH4 buttons of the transmitter, and at the same time power on the transmitter. At this time, the buzzer will give a long beep.

Note: This function is only applicable to resetting the end point value to the default value.

FS-HBP-R6A4-BS Receiver Overview





[1]	CH1 Interface	[11]	Battery Interface
[2]	CH4 Interface	[12]	Motor Interface
[3]	CH5 Interface	[13]	Turn Signal Left Light Interface
[4]	CH6 Interface	[14]	Turn Signal Right Light Interface
[5]	Fog Light Interface	[15]	Fog Light Interface
[6]	Fog Light Interface	[16]	Stop Light Interface
[7]	Turn Signal Left Light Interface	[17]	Back Light Interface
[8]	Headlight Interface	[18]	S (Signal Pin of Channel Interface)
[9]	Antenna	[19]	+ (Anode of the Channel/LED Lights Interface)
[10]	Power Switch	[20]	- (Cathode of the Channel Interface)

Receiver LED

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

Off: The receiver is not powered on.

Solid ON: The receiver works normally.

Fast Flashing: The receiver is in the binding mode.

Slow Flashing: The transmitter bound is powered off, or it has been not bound with a transmitter, or the receiver does not receive any signal.

Interface

The CH1, CH4, CH5 and CH6 channel interfaces are standard 1.25mm*3Pin connectors; the LED lights are standard 1.25mm pitch connectors; the battery interface is a XT30 male connector; the motor interface is a PH2.0 female connector, to connect the receiver to the terminals of the model.

Antenna

It is an external antenna.

⚠ Caution	• Do not pull the antenna of the receiver. Do not tie the antenna and the servo cable together.
⚠ Warning	• 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.

Getting Started

Before operation, install the battery and connect the system as instructed below.

Transmitter Antenna

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

FS-HBP-R6A4-BS Receiver and Servo Installation

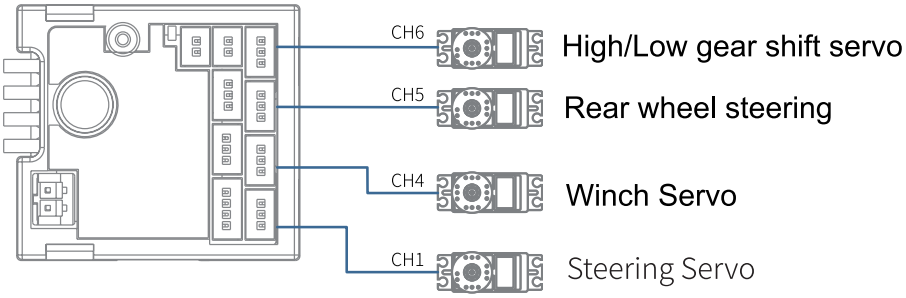
Make sure that the receiver is mounted in an appropriate location within the model, to ensure a stable signal, maximum range and to mitigate external interference, follow these guidelines:

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.

Caution	• **To prevent damage do not power on the receiver during installation.**

Connect the servos to the receiver according to the digram below.



LED Indicator

The G.LED of the transmitter is used to indicate the functional status of the transmitter; the BATT LED is used to indicate the power status of the transmitter and the power status of the 2-in-1 receiver, the details are as follows.

1. G.LED: The green status indicator
   - When the transmitter is in binding state, the G.LED will flash rapidly.
   - When the transmitter voltage is low, the G.LED will flash slowly.
   - When the transmitter is in idle alarm/sleep mode, the G.LED will be in a gradual light state.
   - When the transmitter is in an end point adjustment status, the G.LED will operate in a two-flash-one-off state.
2. BATT Indicator: The battery power indicator for the transmitter or the 2-in-1 receiver
   - When the battery power is high, the BATT LED will be green solid on.
   - When the battery power is medium, the BATT LED will be yellow solid on.
   - When the battery power is low, the BATT LED will be red solid on.
   - When the battery power is ultra low, the BATT LED will flash red slowly.

Note: In three seconds after the power-on of the transmitter, the BATT LED indicates the transmitter battery power status. When the transmitter is powered on for 3 seconds, the receiver battery power status is indicated.

- When the transmitter does not receive the return message, the BATT LED will be off.
- When the receiver is de-bound, the BATT LED will maintain in the state when the receiver is de-binding.

5.System Functions

This section focuses on the functions and how to use them.

5.1 Channel Description

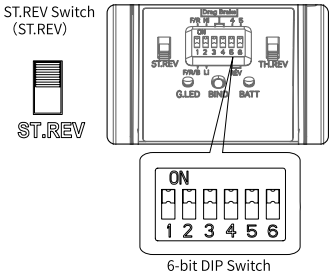
The transmitter outputs a total of 6 channels, which are assigned as below, as well as the functions.

Channel	Assigned Control	Function
CH1	Steering Wheel	Steering, to make the RC car to turn right or left. Turn the steering wheel clockwise or counterclockwise to control the RC car to make a left or right turn.
CH2	Throttle Trigger	Throttle, to control the RC car to move forward, reverse or brake. Push or pull the throttle trigger to control the RC car to move forward, brake or move backward.
CH3	CH3 Button	To switch the operating mode of the LED lights, and total is up to 6. (They are default mode, mode 1, mode 2, mode 3, mode 4 and mode 5, switching in turn cyclically when the CH3 button is pressed.)
CH4	CH4 Button	User can customize the channel function. For example, you can connect a variable speed servo or a winch servo to these channels.
CH5	CH5 Self-Centering Knob	
CH6	CH6 Three-Position Toggle Switch	

5.2 Channel Reverse

This function reverses the servo motion direction of steering channel, throttle channel, CH4 and CH5.

The ST.REV and TH.REV switches are reverse setting switches of steering channel and throttle channel respectively. Switches 5 and 6 of the 6-bit DIP switch are the reverse setting switches of CH4 and CH5, respectively. A switch on the upper position indicates that the servo output is normal; a switch on the lower position indicates that the servo output is reverse.



Setup:

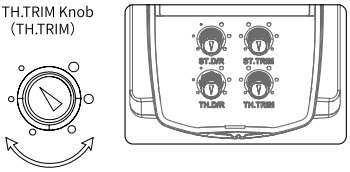
Toggle the corresponding setting switch to the upper position, the buzzer will have one beep. Toggle the switch to the lower position, the buzzer will have two beeps.

5.3 Trims

This function can set the trim of steering channel and throttle channel.

The ST.TRIM and TH.TRIM knobs correspond to the trim adjustments of the steering channel and throttle channel respectively. When the knob is centered, the trim value is zero by default. When adjusting counterclockwise, the trim value increases and the maximum of value is 120us. When adjusting clockwise, the trim value decreases and the minimum is -120us.

Note that when the channel is set in reverse, the trim is reversed at the same time, that is, the trim value decreases in the counterclockwise adjustment, and the trim value increases in clockwise adjustment.



Setup:

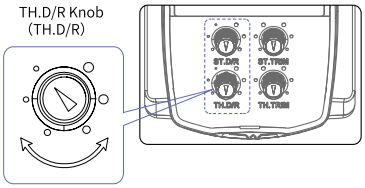
Turn the trim knob corresponding to the channel clockwise or counterclockwise for trim adjustment. The buzzer will have one beep when the position is reached to the center.

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.

5.4 D/R

This function is used to adjust the rate of steering channel and throttle channel, so that the servo actions tend to be sensitive.

ST.D/R is used to adjust the steering channel rate. TH.D/R is used to adjust the throttle channel rate. Turning the knob anticlockwise will increase the value. Turning the knob clockwise will decrease the value. Smaller values indicate finer adjustment. The range is 0 ~100%.



Setup:

Turn the D/R knob corresponding to the channel clockwise or counterclockwise for D/R adjustment. The buzzer will have one beep when the position is reached to the center.

5.5 End Point Adjustment

This function is used to adjust the end points of all channels except channel 4.

By default, it is used to set the steering channel end points. The end points setting of the others can be triggered by operating the control corresponding to this channel.

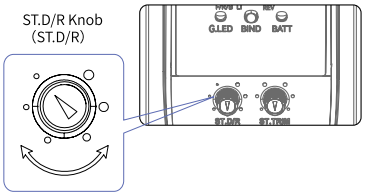
Steering Channel End Point Adjustment

Adjust the end points of steering channel (the control of steering channel is steering wheel).

Setup:

1. In the power-on state, press BIND twice, then the transmitter enters the end point setting mode. At this time, G.LED will operate in two-flash-one-off mode repeatedly, and the buzzer will prompt with beeping twice cyclically.
2. Rotate the ST.D/R knob to the desired position, then briefly press the BIND to confirm. The buzzer will beep once cyclically, indicating this setting is finished.
3. Continue rotating the ST.D/R knob to the desired position, then briefly press the BIND to confirm. The buzzer will turn off, indicating that the setting is finished.
4. Press and hold BIND for one second to save the setting and exit the end point setting mode. The buzzer will give a long beep, and the G.LED will be solid on. The end points setting of the steering channel is finished.

Note:If the end points setting difference is too small, the setting is invalid and needs to be reset.



CH5 End Point Adjustment

Adjust the end points of CH5 (the control of CH5 is CH5 Self-Centering Knob).

Setup:

1. In the power-on state, press BIND twice, then the transmitter enters the end point setting mode. At this time, G.LED will operate in two-flash-one-off mode repeatedly, and the buzzer will prompt with beeping twice cyclically.
2. Toggle CH5 Self-Centering knob. The buzzer will prompt with beeping three times cyclically, indicating ready to set the endpoints for this channel.
3. Set the low-end end point.
   - Rotate the ST.D/R knob to the desired position, then briefly press the BIND to confirm. The buzzer will beep twice cyclically, indicating this setting is finished.
4. Set the neutral position end point.
   - Continue rotating the ST.D/R knob to the desired position, then briefly press the BIND to confirm. The buzzer will beep once cyclically, indicating this setting is finished.
5. Set the high-end end point.
   - Continue rotating the ST.D/R knob to the desired position, then briefly press the BIND to confirm. The buzzer will turn off, indicating that the setting is finished.
6. Press and hold BIND for one second to save the setting and exit the end point setting mode. The buzzer will give a long beep, and the G.LED will be solid on. The end points setting of CH5 is finished.

CH6 End Point Adjustment

Adjust the end points of CH6 (the control of CH6 is CH6 Three-Position Toggle Switch).

Setup:

1. In the power-on state, press BIND twice, then the transmitter enters the end point setting mode. At this time, G.LED will operate in two-flash-one-off mode repeatedly, and the buzzer will prompt with beeping twice cyclically.
2. Set 1st-position end point.
   - Toggle CH6 Three-Position Toggle Switch to one position. The buzzer will prompt with beeping three times cyclically, indicating ready to set the end point for this position.
   - Rotate the ST.D/R knob to the desired position, then press BIND to confirm. The buzzer will prompt with beeping twice cyclically. The setting of this position is completed.

3. Set 2nd-position end point.
   - Toggle CH6 Three-Position Toggle Switch to another position. Rotate the ST.D/R knob to the desired position, then press BIND to confirm. The buzzer will prompt with beeping once cyclically. The setting of this position is finished.
4. Set 3rd-position end point.
   - Toggle CH6 Three-Position Toggle Switch to the last position. Rotate the ST.D/R knob to the desired position, then press BIND to confirm. The buzzer will be off at this time. The setting of this position is finished.
5. Press and hold BIND for one second to save the setting and exit the end point setting mode. The buzzer will give a long beep, and the G.LED will be solid on. The end points setting of CH6 is finished.

Note: The end point values of at least two positions should be set.

Other Channels End Point Adjustment

Adjust the end points of the other channels.

Setup:

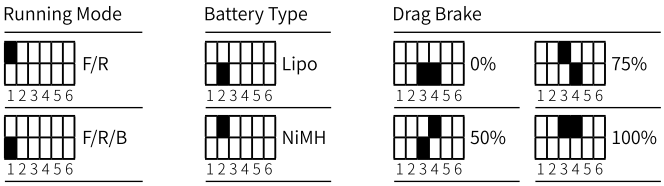
1. Refer to previous content, to put the transmitter into the end point setting mode.
2. Operate the control corresponding to the channel which you want to set.
3. Turn the ST.D/R knob to the appropriate travel point, then press BIND. The buzzer will prompt with beeping once cyclically.
4. Turn the ST.D/R knob to the appropriate travel point, then press BIND. The buzzer will be off at this time.
5. Press and hold BIND for one second to save the setting and exit the end point setting mode. The buzzer will give a long beep. and the G.LED will be solid on. The end points setting of this channel is finished.

Notes:

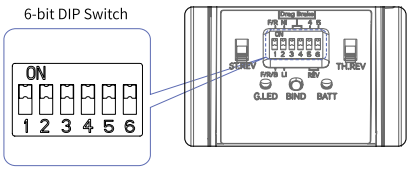
1. If there is no response from the transmitter when a control is operated during the setup process, it means that the setup fails. In this case, you need to set it again.
2. Except the steering channel and throttle channel, you can operate the corresponding control to trigger the end points settings of other channels after completing the settings of one channel. For example, in the end points setting of CH3, you can press the CH4 button after the buzzer is turned off. At this time, the buzzer prompts with beeping twice cyclically. You can continue the end points setting of CH4. If you want to set the end points of the steering channel or throttle channel after setting other channels, the transmitter needs to re-enter the end point setting mode.
3. Throttle channel will maintain normal output during the end point setting of other channels excluding the throttle channel.

5.6 ESC Parameters Setting

6-bit DIP Switch Sign



The ESC parameters can be set by the 6-bit DIP Switch of the transmitter, that is, the DIP 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".



Running Mode

Forward/Reverse/Brake(F/B/R): when the throttle trigger is pulled back and then quickly pushed forward, the motor will only brake and will not reverse. When the throttle trigger is moved back to the neutral range and pushed to the reverse area, it will reverse. This mode is applicable to general models.

Forward/Reverse(F/R): When the throttle trigger is pushed into the reverse zone, the motor will immediately reverse, which is generally applied to rock crawler.

The switch marked 1 of the 6-bit DIP switch is used to set the ESC running mode. The switch on the upper position indicates that the running mode is Forward/Reverse; and the switch on the lower position indicates that the running mode is Forward/Reverse/Brake.

Setup:

Toggle the switch 1 to the upper position, the buzzer will have one beep. Toggle the switch to the lower position, the buzzer will have two beeps.

Battery Type

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

The switch 2 of the 6-bit DIP switch is used to set the battery type. The switch on the upper position indicates that the battery type is NiMH cells; and the switch on the lower position indicates that the battery type is LiPo.

Setup:

Toggle the switch 2 to the upper position, the buzzer will have one beep. Toggle the switch to the lower position, the buzzer will have two beeps.

Drag Brake

The drag brake means that when the throttle trigger moves from the forward or reverse area to neutral range, it will produce certain braking force to the motor, the larger the value is, the greater the drag brake force is. And this is applicable to decelerate into a turn and model crawler applications. Select proper braking force according to the actual situation.

The switches 3 and 4 of the 6-bit DIP switch are used to set the ESC drag brake force. The drag brake force can be set to 0%, 50%, 75% or 100%.

Setup:

- Toggle both the switch 3 and 4 to the lower position, then the drag brake force is set to 0%.
- Toggle the switch 3 to the lower position and switch 4 to the upper position, then the drag brake force is set to 50%.
- Toggle the switch 3 to the upper position and switch 4 to the lower position, then the drag brake force is set to 75%.
- Toggle both the switch 3 and 4 to the upper position, then the drag brake force is set to 100%.

5.7 Failsafe

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

When signal loss occurs, the receiver's CH2 failsafe triggers, forcing the ESC into brake mode, and the other channels(CH1, CH4, CH5 and CH6) keep the last output. If the other channels have been set at the transmitter side, the output will be according to the set value; meanwhile, the turn signal left and right lights will flash slowly and simultaneously (only when the LED light mode is set to mode 5).

For the other channels, it can be set at the transmitter side. The setting steps are as below.

In the normal power-on state, position the control corresponding to the channel requiring fail-safe setup to its desired position, meanwhile, press and hold the BIND button for 3 seconds to set the output value as the failsafe value. And the buzzer will give a long beep indicating that the setting is successful.

Note: Restore to the default setting in case of re-binding.

5.8 Idle Alarm

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

When the transmitter is in an idle alarm state, the G.LED will be in a gradual light state, and the buzzer will prompt with beeping three times cyclically. Operate any of transmitter controls to exit the idle alarm state.

5.9 Sleep Mode

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

In this mode, the G.LED will be in a gradual light status, other indicator will be off, and the buzzer and RF will turn off.

To exit the sleep mode, power off the transmitter and restart it.

5.10 Low Voltage Alarm

When the system detects a low voltage, it will give an alarm. Avoid accidents caused by long-term operation under low voltage.

When the voltage is detected below 4.2V/7.0V (AA battery/LiPo battery), there is an alarm when low voltage is detected. At this time, the G.LED will flash slowly, and the buzzer prompts with beeping once cyclically.

When the voltage is detected below 3.5V (ultra-low), the transmitting function is disabled. The G.LED will be in a gradual light state.

5.11 Data Reset

This function is used to restore the set end point value to the default value.

Setup:

To restore to the default value, press the BIND and CH4 buttons of the transmitter, and at the same time power on the transmitter. At this time, the buzzer will give a long beep for prompt.

Note: This function is only applicable to resetting the end point value to the default value.

6. FS-HBP-R6A4-BS Function Instructions

This chapter mainly introduces the precautions for using the FS-HBP-R6A4-BS receiver and the settings of the related function.

6.1 Attention

- 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.

6.2 Binding Instruction

If it needs to rebind the receiver and the transmitter, refer to 4.3 Binding for details.

6.3 Protect Function

This receiver features low and high voltage protection.

- Low Voltage Protection: When the voltage is detected to be low, CH2 has no output and all the LED lights flash slowly for prompt.
- High Voltage Protection: When the voltage is detected to be high, all channels will not output. All the LED lights flash fast for prompt.

The receiver ESC features overheating protection.

- Overheating Protection: When the internal temperature of the ESC is detected to be too high, CH2 has no output and all the LED lights flash fast for prompt. When the temperature is normal, the channel will resume output.

6.4 LED Lights Control

This receiver features 6 sets of LED lights: turn signal left light, turn signal right light, headlight, stop light, back light and fog light.

The state of all the LED lights is controlled by the corresponding controls of the FS-HBP-MG6A-BS transmitter. The 6 groups of LED lights support 6 groups of operating modes. Short press the CH3 button on the transmitter to switch the LED light mode. Each time it is pressed, one mode per press (default mode, mode 1, mode 2, mode 3, mode 4 and mode 5 are switched in turn). The details are as follows:

<table>
<tr><th>LED Lights</th><th>Default Mode</th><th>Mode 1</th><th>Mode 2</th><th>Mode 3</th><th>Mode 4</th><th>Mode 5</th></tr>
<tr><td>Turn Signal Left Light</td><td colspan="2">OFF</td><td>Slow flash when making a left turn.</td><td colspan="2">OFF</td><td>Slow Flash</td></tr>
<tr><td>Turn Signal Right Light</td><td colspan="2">OFF</td><td>Slow flash when making a right turn.</td><td colspan="2">OFF</td><td>Slow Flash</td></tr>
<tr><td>Headlight</td><td>OFF</td><td colspan="5">Solid ON</td></tr>
<tr><td>Stop Light</td><td>OFF</td><td colspan="5">Solid ON</td></tr>
<tr><td>Back Light</td><td colspan="6">The backup light is solid on when the model car backs up, otherwise, it is off.</td></tr>
<tr><td>Fog Light</td><td colspan="4">OFF</td><td colspan="2">Solid ON</td></tr>
</table>

Notes:

1. After the receiver is turned on, all the lights will be on for one second and then go out.
2. Every time the receiver is turned on, the LED lights operating mode is in Default Mode.
3. When the ESC running mode is set to Forward/Reverse, and the throttle trigger is in neutral position, namely, it is in a braking state, at this time the stop light will remain solid on.
4. The steering CH1 channel and throttle CH2 channel are capable of automatic neutral identifying, after the trim is adjusted, the receiver should be powered again to recognize the neutral positions of these two channels automatically.

6.5 ESC Function Instruction

This receiver ESC function supports the settings of battery type, drag brake and running mode (forward/reverse, forward/reverse/brake) at the transmitter side. See 5.6 ESC Parameters Setting for details.

Notes:

1. The ESC function is available for running until the self-inspection is completed (it takes about 3 seconds). Otherwise, it may not be able to operate normally.
2. If you find that the motor steering is not correct during operation, you can set the throttle channel in reverse at the transmitter side.
3. Normally, you must power on the transmitter and then receiver, and power off the receiver and then transmitter.

6.6 Trouble Shooting

Troubles	Possible Causes	Solutions
The motor cannot start and the LED is not on after power-on.	1. The ESC has no operating voltage.	Check whether there is any connection problem between the battery and the ESC and whether there is faulty welding of the relevant plug.
	2. The switch of receiver or the ESC itself is damaged.	Return to factory for inspection and treatment.
When forward the car by the transmitter, it reverse.	1. It may cause by the connection sequence between output line of ESC and motor line.	Exchange the position of two lines of motor.
	2. The throttle direction of transmitter is wrongly set.	Set throttle direction of transmitter to the opposite direction.
The motor suddenly stops rotating during rotation.	1. The throttle signal is lost.	Check the transmitter and the receiver.
	2. The ESC enters low/high voltage protection or overheat protection of battery.	Please check the battery voltage and the temperature of the ESC.
When the motor starts, it accelerates rapidly, and the motor is stuck or stops.	1. Battery discharge capacity is insufficient	Replace battery with strong discharge capacity.
	2. The rotation speed of motor is too fast, the gear ratio is not reasonable.	Replace low speed motor, or increase the reduction ratio.

6.7 Failsafe

The receiver supports the failsafe function, it needs to be set at the transmittter side, refer to 5.7 Failsafe for details.

7. Product Specifications

This section contains the specifications of FS-HBP-MG6A-BS transmitter and FS-HBP-R6A4-BS receiver.

7.1 FS-HBP-MG6A-BS Transmitter Specifications

Product Model	FS-HBP-MG6A-BS
Compatible Receivers	FS-HBP-R6A4-BS
Number of Channels	6
Compatible RC Models	Simulation crawler
RF	2.4GHz ISM
Maximum Power	<20dBm (e.i.r.p.) （EU）
RF Protocol	2A-BS
Distance	More than or equal to 150m(ground distance without interference)
Resolution	4096
Input Power	1.5AA*4 or 2S LiPo
Charging Jack	None (The USB Type-C port is only used for power supply.)
Low Voltage Alarm	AA battery: Lower than 4.2V; LiPo battery: Lower than 7.0V
Antenna	One built-in antenna
Data Connector	None
Firmware Update	Not Supported
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Color	Black
Dimensions	135.7*189.5*82.7mm
Weight	217g
Certifications	CE, FCC ID：2A2UNMG110O

7.2 FS-HBP-R6A4-BS Receiver Specifications

Product Model	FS-HBP-R6A4-BS
Compatible Transmitters	FS-HBP-MG6A-BS
Compatible RC Models	1 /18 simulation cars, crawler cars
Number of Channels	6
Number of LED Lights	6
RF	2.4GHz ISM
RF Protocol	2A-BS
Distance	More than or equal to 150m (ground distance without interference)
Resolution	4096
Operating Voltage	LiPo (2S)/NiMH (5~9Cell)
Antenna	One external antenna(coaxial antenna)
BEC Output	6V/1A
Continuous/Peak Current	10A/50A
Motor Type	Brushed motor
Applicable Motors	030, 050, 130 or 180 brushed motor
Data Output	PWM
Firmware Update	Not Supported
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Waterproof	PPX4
Dimensions	33mm*30mm*12mm (Excluding capacitor)
Weight	11g
Certifications	CE, FCC ID：N4ZR4A31

Failsafe

The function is used to protect the model and personnel when the receiver loses signal.

When signal loss occurs, the receiver's CH2 failsafe triggers, forcing the ESC into brake mode, and the other channels (CH1, CH4, CH5 and CH6) keep the last output. If the other channels have been set at the transmitter side, the output will be according to the set value; meanwhile, the turn signal left and right lights will flash slowly and simultaneously (only when the LED light mode is set to mode 5).

For the other channels, it can be set at the transmitter side. The setting steps are as below:

In the normal power-on state, position the control corresponding to the channel requiring fail-safe setup to its desired position. Meanwhile, press and hold the BIND button for 3 seconds to set the channel value of the current output to the failsafe value. The buzzer will give a long beep indicating that the setting is successful.

Note: Restore to the default setting in case of re-binding.

Powering OFF

Follow the steps below to turn off the transmitter:

1. Turn off the receiver first.
2. Toggle the transmitter's Power Switch to the OFF position to turn off the transmitter.

Make sure to power off the receiver before turning off the transmitter. Failure to do so can result out-of-control. Unreasonable setting of the Failsafe may cause an accident.

Specifications

Product Model	FS-HBP-MG6A-BS
Compatible Receivers	FS-HBP-R6A4-BS
Compatible RC Models	Simulation crawler
Number of Channels	6
RF	2.4GHz ISM
Maximum Power	<20dBm (e.i.r.p.) (EU)
RF Protocol	2A-BS
Resolution	4096
Input Power	1.5AA*4 or 2S LiPo
Low Voltage Alarm	AA battery: <4.2V; LiPo battery: <7.0V
Antenna	One built-in antenna
Charging Jack	None (The USB Type-C port is only used for power supply.)
Online Update	Not Supported
Data Connector	None
Distance	More than or equal to 150m (ground distance without interference)
Temperature Range	-10°C ~ +60°C
Humidity Range	20% ~ 95%
Dimensions	135.7*189.5*82.7mm
Weight	217g
Color	Black
Certifications	CE, FCC ID: 2A2UNMG110O

Certifications

FCC Compliance Statement

This device 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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

EU DoC Declaration

Hereby, [ShenZhen FLYSKY Technology Co., Ltd.] declares that the Radio Equipment [FS-HBP-MG6A-BS&FS-HBP-R6A4-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

RF Exposure Compliance

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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: 2A2UNMG110O

Manufacturer: ShenZhen FLYSKY Technology Co., Ltd.
Address: 16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China

本操作指南中的图片和插图仅供参考，可能与实际产品外观有所不同。产品设计和规格可能会有所更改，恕不另行通知。

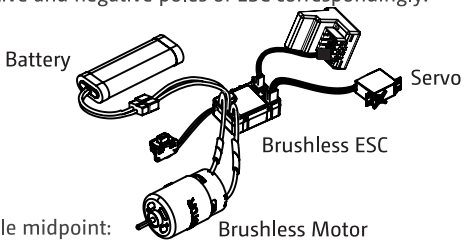
Figures and illustrations in this QSG are provided for reference only and may differ from actual product appearance. Product design and specificatiions may be changed without notice.

ESC function instructions

Brushless version

1. Connect related equipment:

- Make sure the ESC is off before connection. Connect the motor with M+ and M- of ESC. Connect the steering servo to the 3Pin interface marked with "ST" of ESC (- + S connected correspondingly). Connect the battery with the positive and negative poles of ESC correspondingly.



2. Normal boot, identification throttle midpoint:
After connecting related equipment as step 1, turn on the radio first, move the throttle trigger to the neutral position. Turn on the switch of ESC at last. The receiver will automatically recognize the battery type when is powered on again. Then it can run it.

Notes:

a. The ESC can be run after completing self-inspection (about 3 seconds) if power on, otherwise it cannot be operated normally.

b. If there is no power output and the red light of ESC flashes quickly after power on, please check whether the throttle trim of the transmitter is set to the "0" position. the receiver will automatically recognize the midpoint of the trim throttle after restarting;

c. If the rotation direction is not correct during running, exchange the two wires connecting motor and ESC.

d. To make sure everything is ok, please turn on the transmitter first and finally turn on the ESC, turn off the ESC first and finally turn off the transmitter.

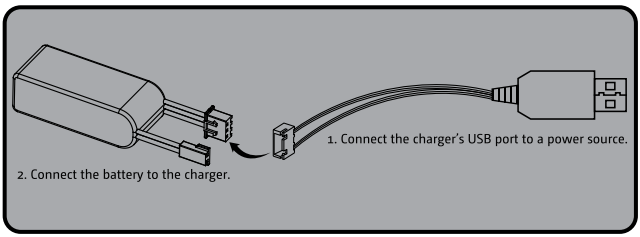
Note: Please refer to the relevant sections for details about the battery type, drag brake force and running mode of the ESC.

Attention:

- 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℃ /194 ℉ , 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 antenna of the receiver 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.

Charging the Battery

1. Connect the charger to a USB port then connect the battery to the charger.
2. When charging, the status LED is red, when charged, the status LED is green.
3. Do not let the battery charge unattended!
4. If the battery or charger is hot, disconnect the battery and charger immediately as this may be caused by an internal short-circuit.



Battery Warning

READ CAREFULLY BEFORE USE

STORE

- Use chargers and settings that are compatible with the battery you are charging (NiMH, LiPo ...).
- Always use a charger with balancer function for LiPo batteries.
- We recommend a maximum charge current of 1C for all batteries (e.g. 4A charge current for a 4000mAh battery).

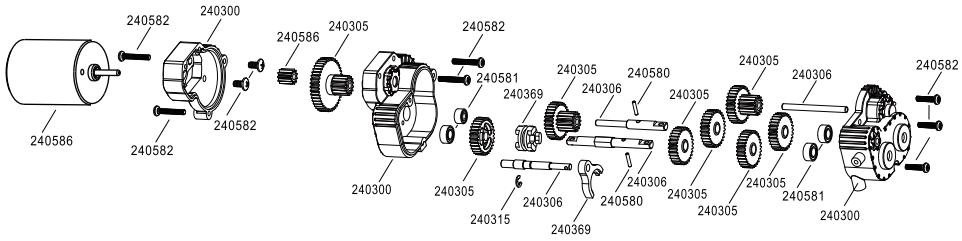
APPLICATION

- The battery must be well protected against external influences and damage.
- Set the cut-off voltage of your speed controller according to the type of battery and the electronics used.
- Deep discharge of LiPo batteries will damage the cells.
- Do not overload the battery with excessive charge/discharge currents.

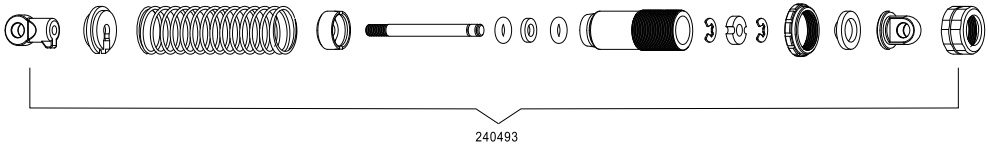
WARNINGS

- Never leave the battery unattended during charging and discharging.
- Charge and use only under the direct supervision of an adult.
- Do not modify the battery either on the housing or on the plugs.
- Only charge the battery in a well-ventilated room away from flammable and/or electrically conductive materials.
- If noticeable odors, discoloration, excessive heat, escaping gases/liquids or deformation of the housing occurs during charging, disconnect the battery immediately from the charger and store it in a safe and fireproof place.
- NiMH batteries can become hot during use and charging.
- When storing LiPo batteries over a long period of time, ensure that the cell voltage is approx. 3.8V/cell. Otherwise the cells may be damaged.

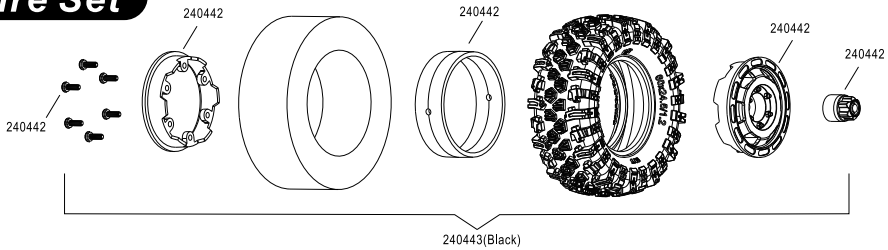
REDUCTION GEAR BOX



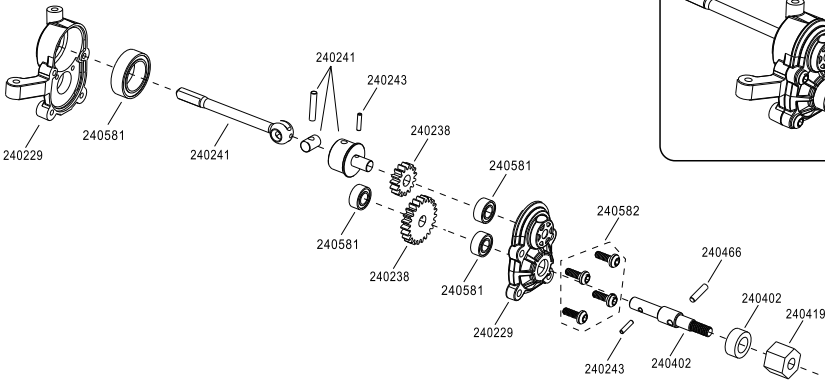
SHOCKS ASSEMBLY



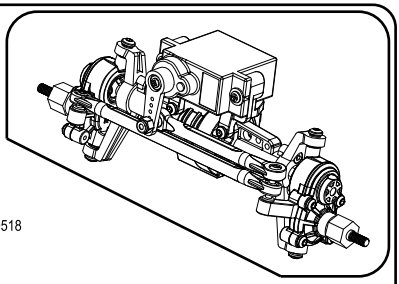
Tire Set



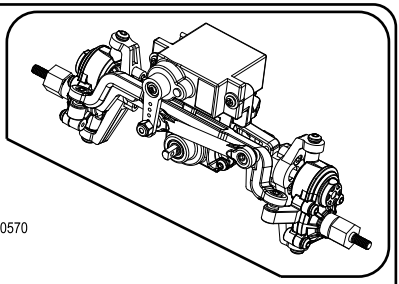
FRONT PORTAL



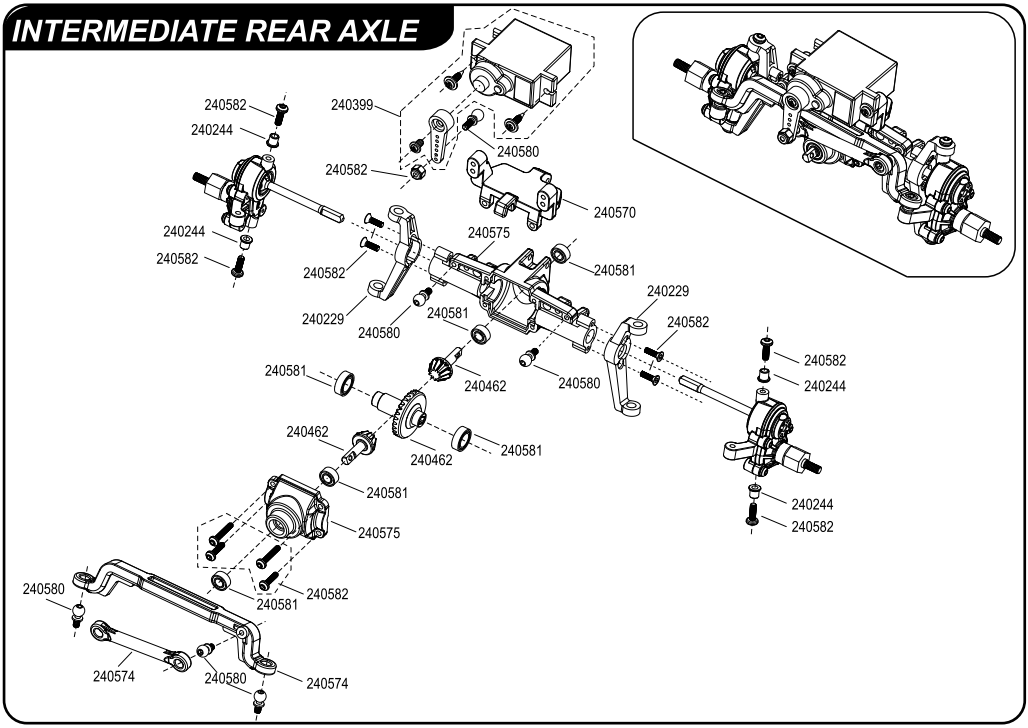
FRONT AXLE



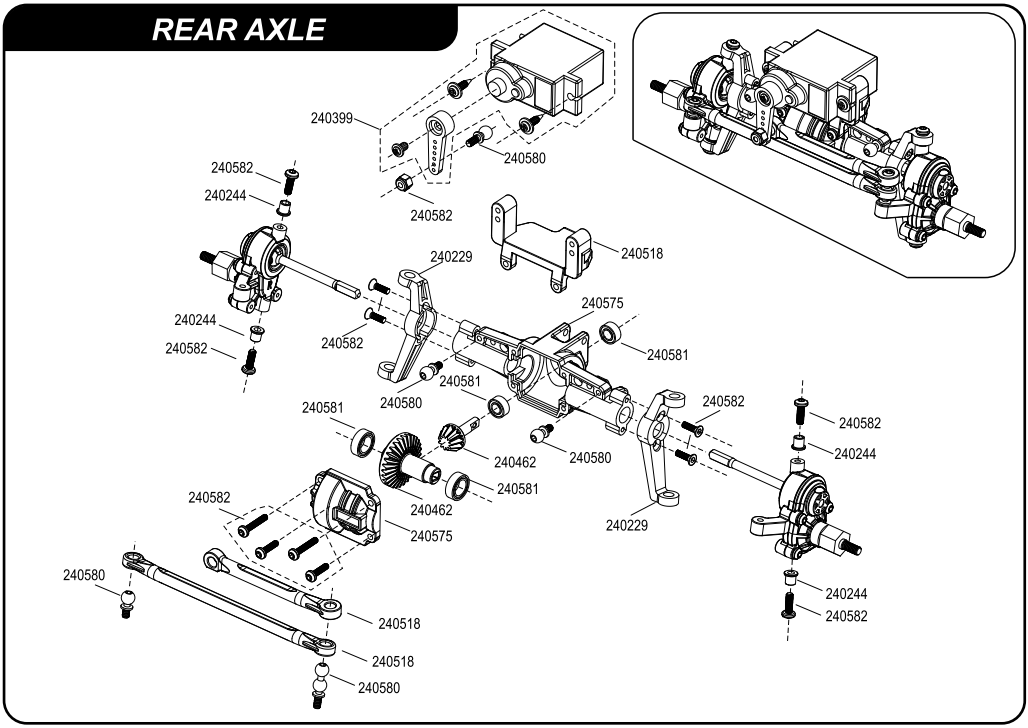
INTERMEDIATE FRONT AXLE



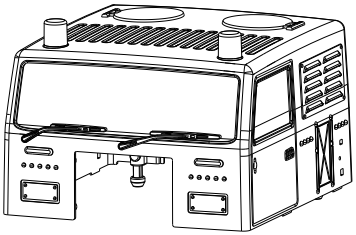
INTERMEDIATE REAR AXLE

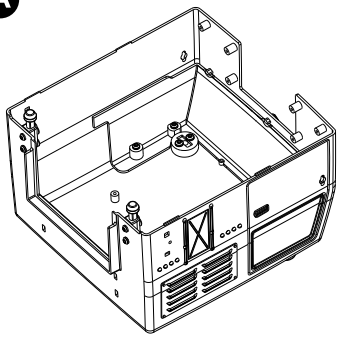


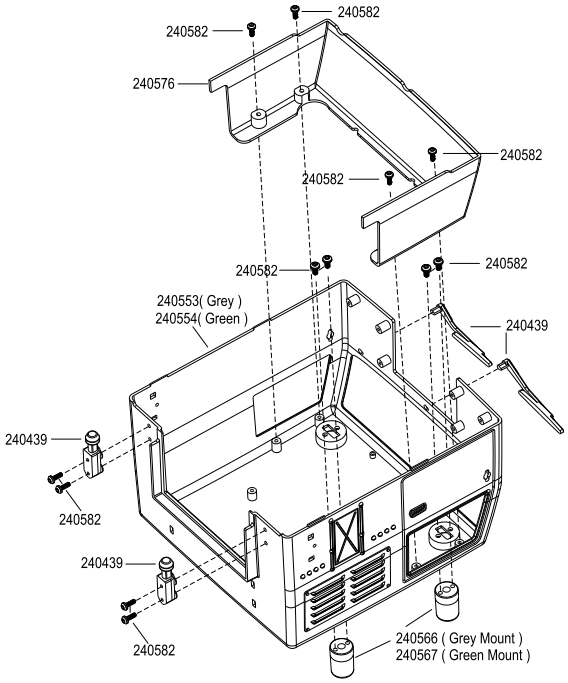
REAR AXLE



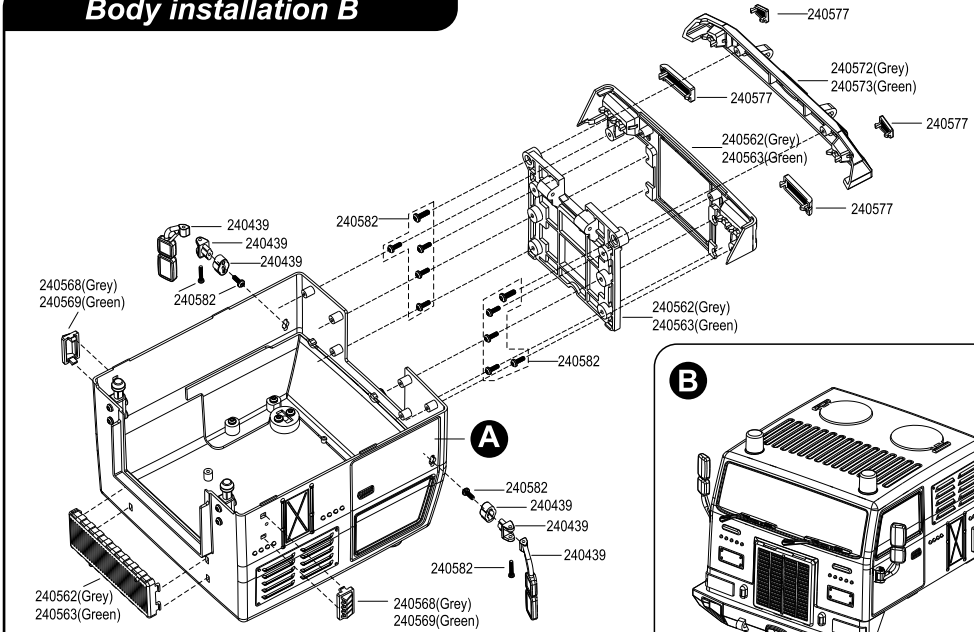
Body installation A



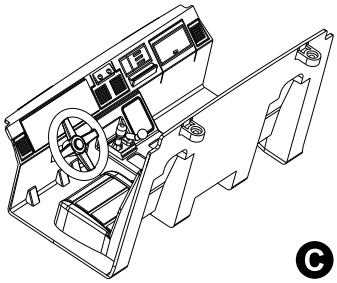


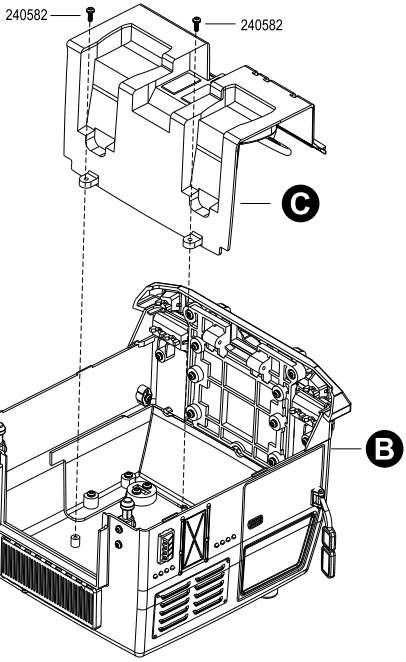


Body installation B

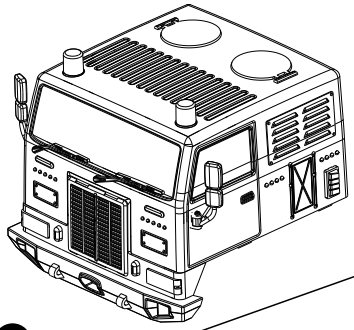


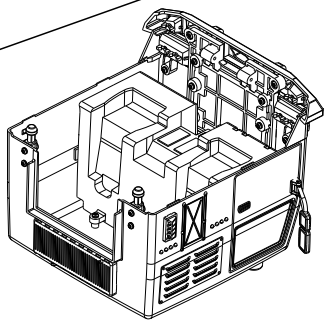
Body installation C



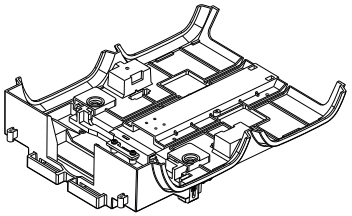


Body installation D





Body installation E



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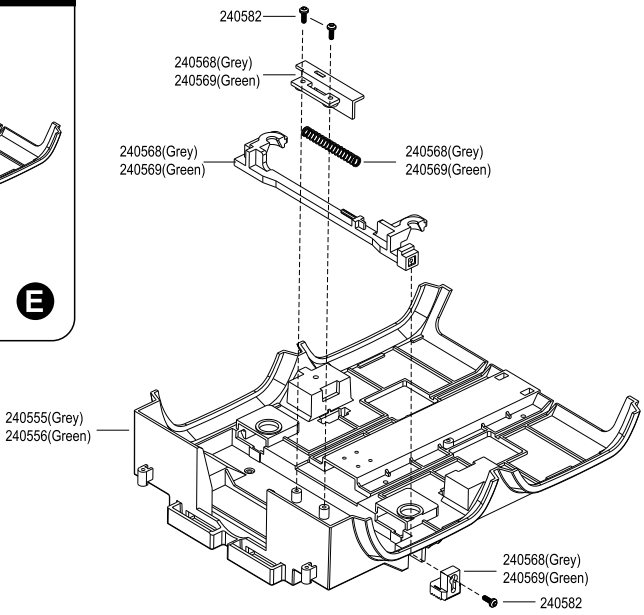
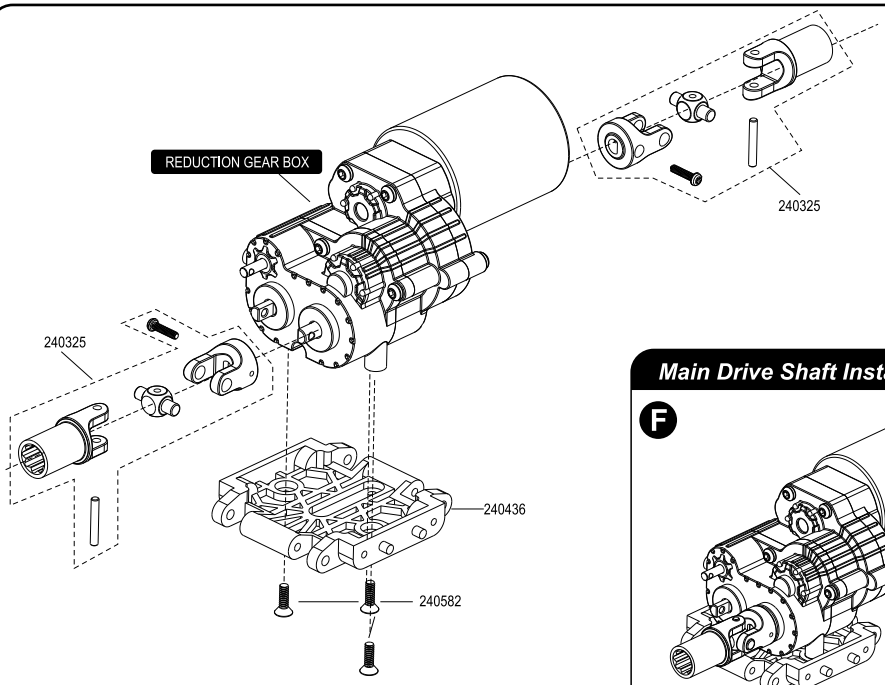
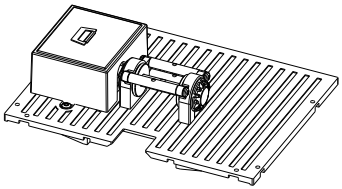


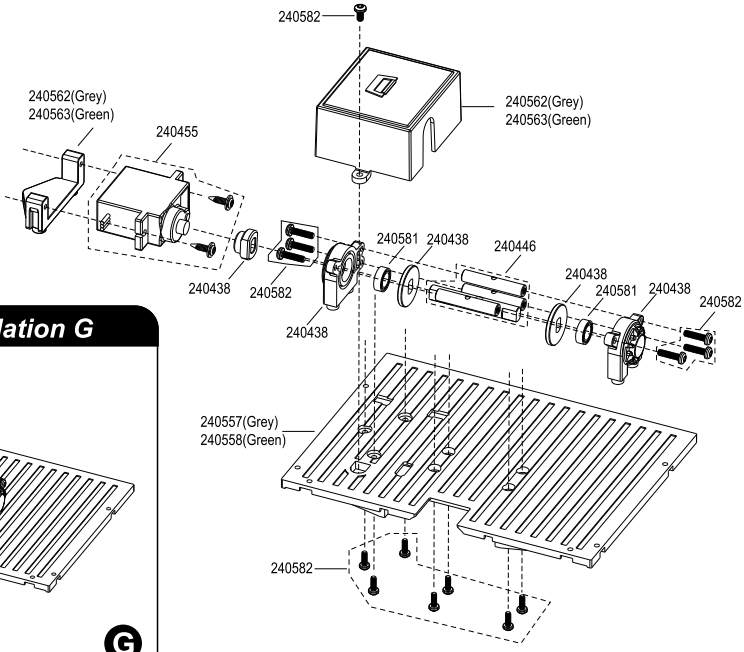


Main Drive Shaft Installation F

F

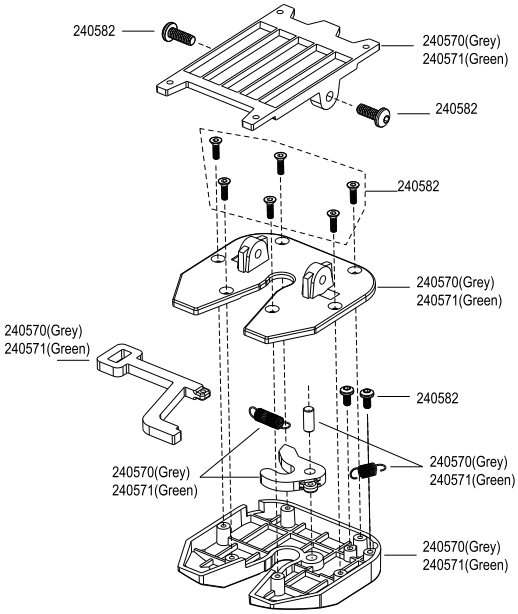
Winch Installation G

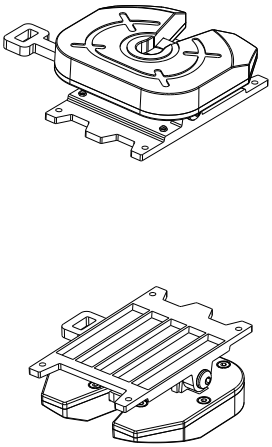




G

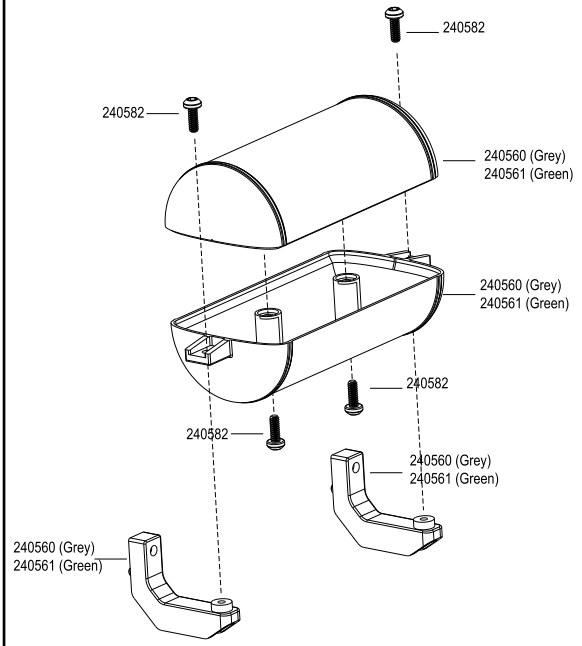
Hauler Installation H

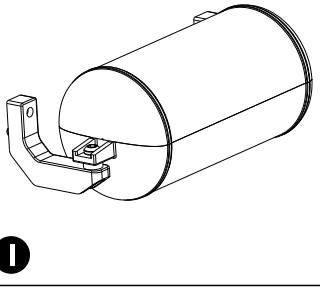




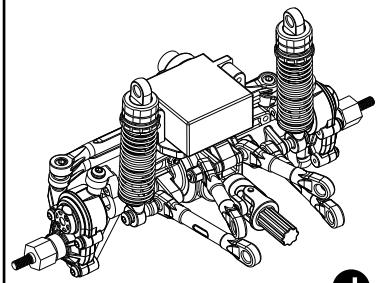
H

Fuel Tank Installation I

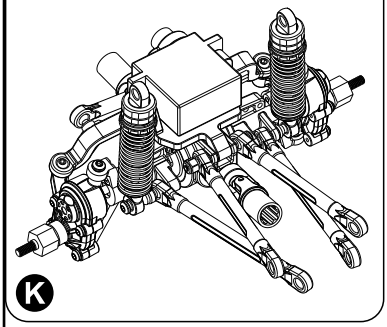




Shock&Links Installation J

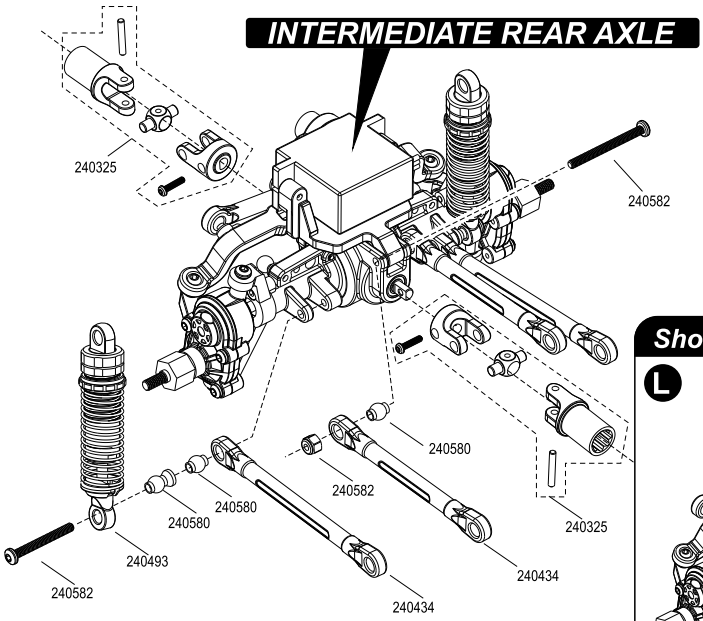


Shock&Links Installation K

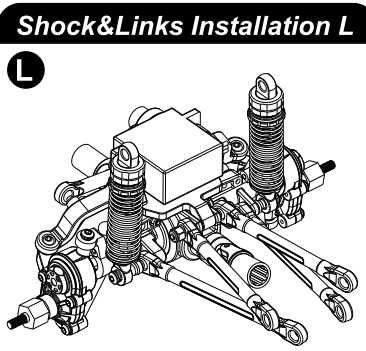


INTERMEDIATE FRONT AXLE

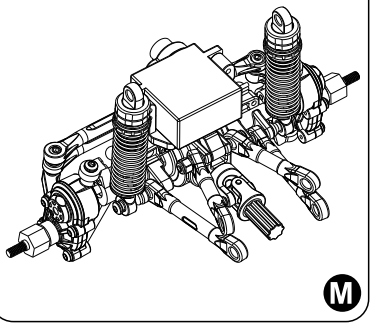
INTERMEDIATE REAR AXLE



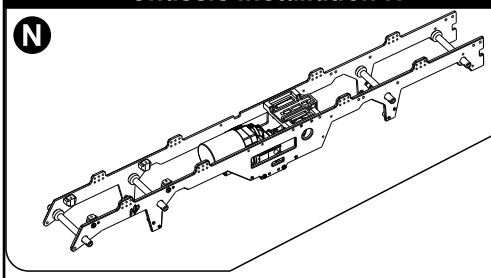
Shock&Links Installation L



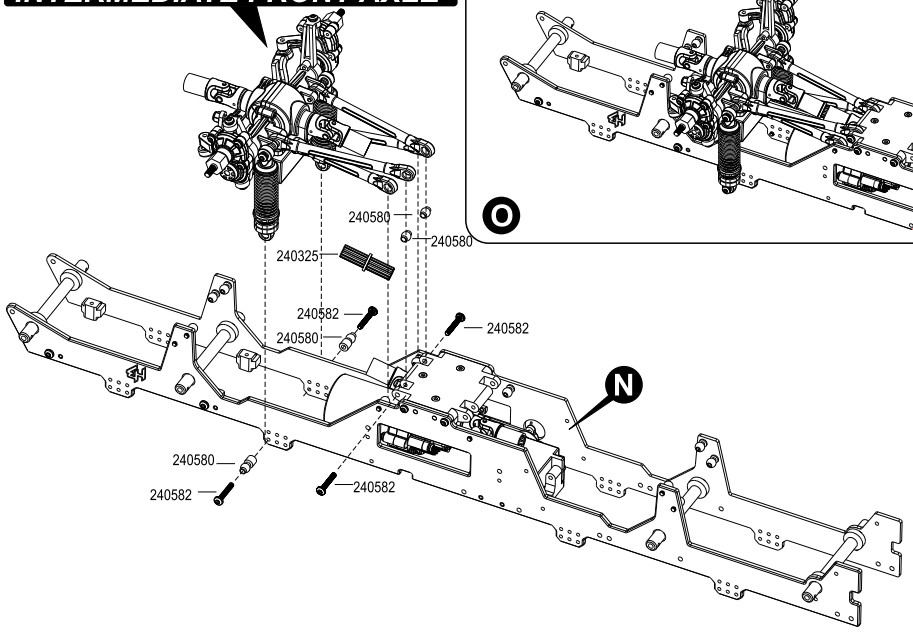
Shock&Links Installation M



Chassis Installation N

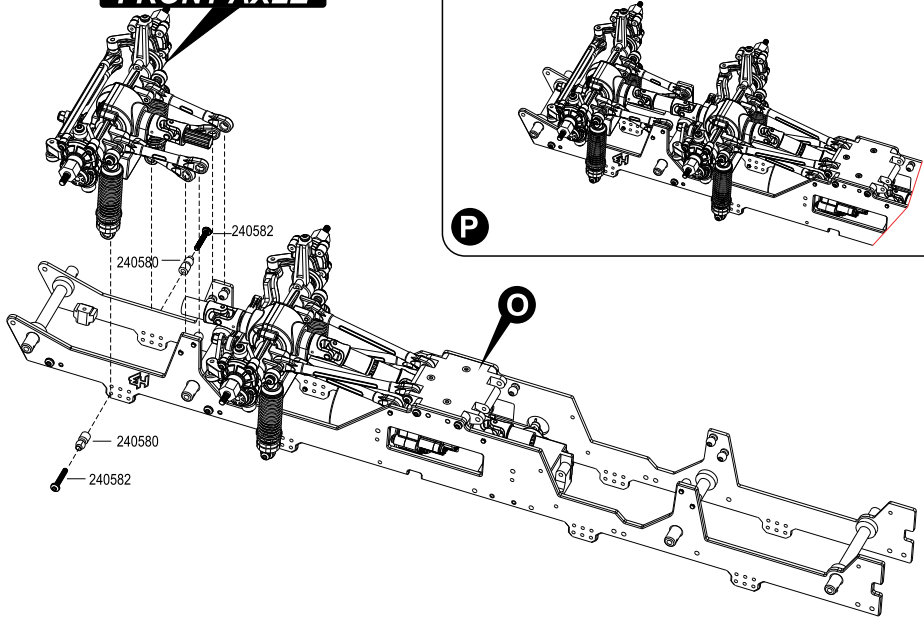


INTERMEDIATE FRONT AXLE



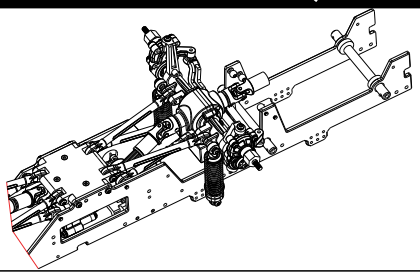
Chassis Installation O

FRONT AXLE



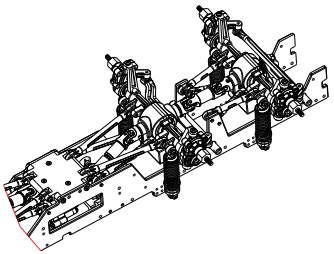
Chassis Installation P

Chassis Installation Q



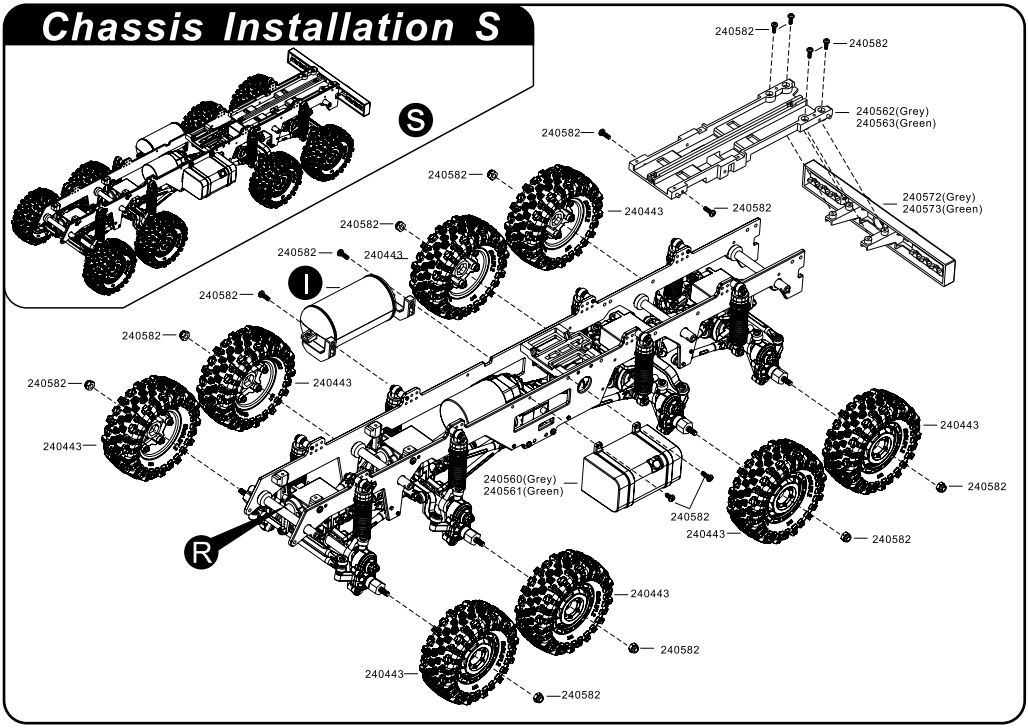
INTERMEDIATE REAR AXLE

Chassis Installation R

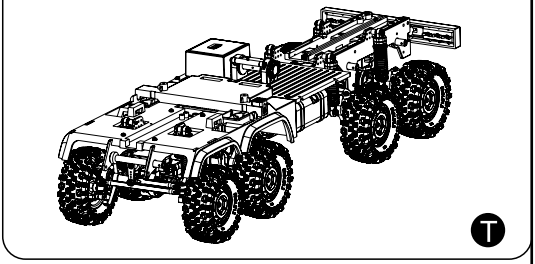


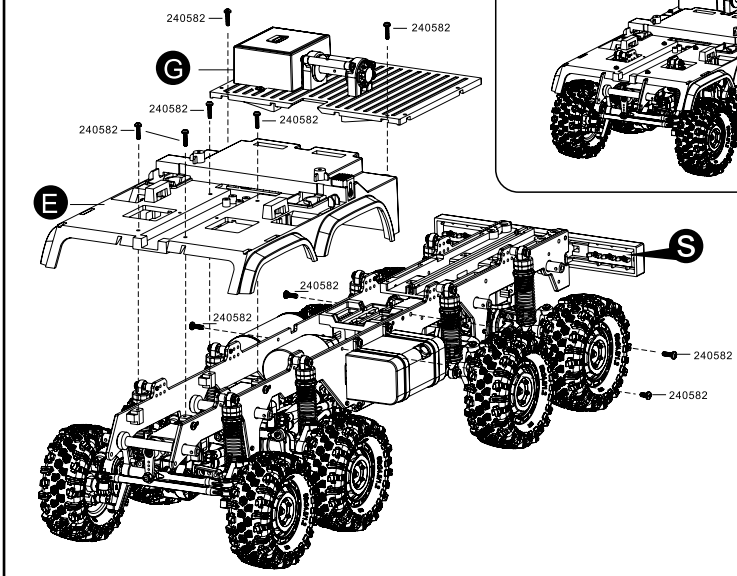
REAR AXLE

Chassis Installation S

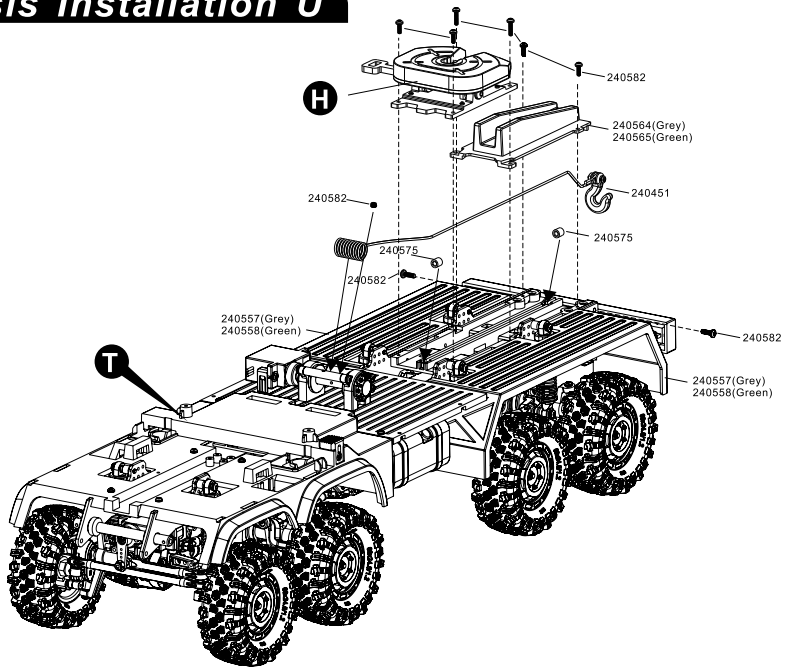


Chassis Installation T

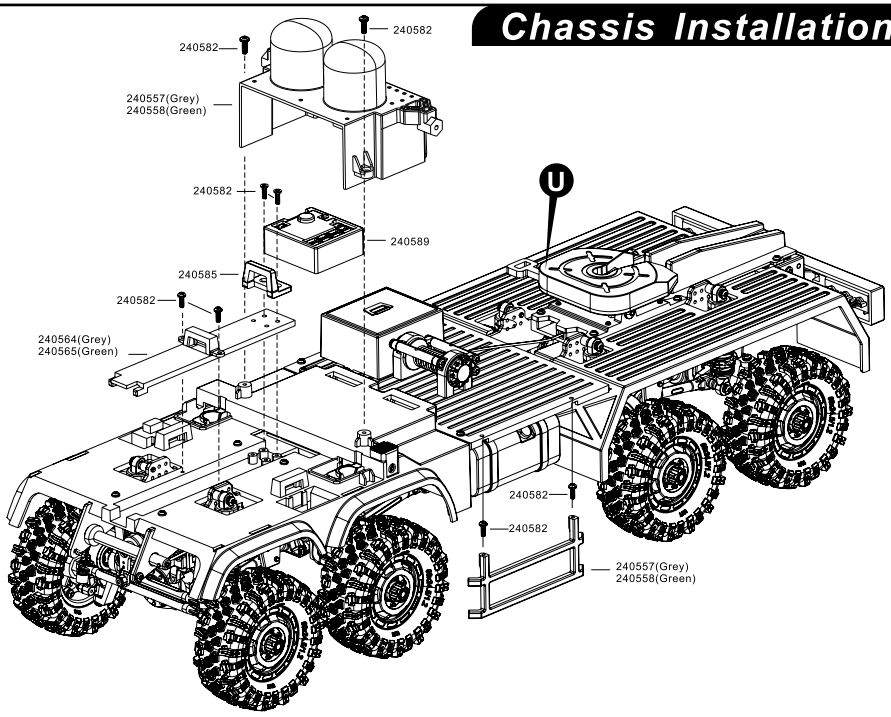




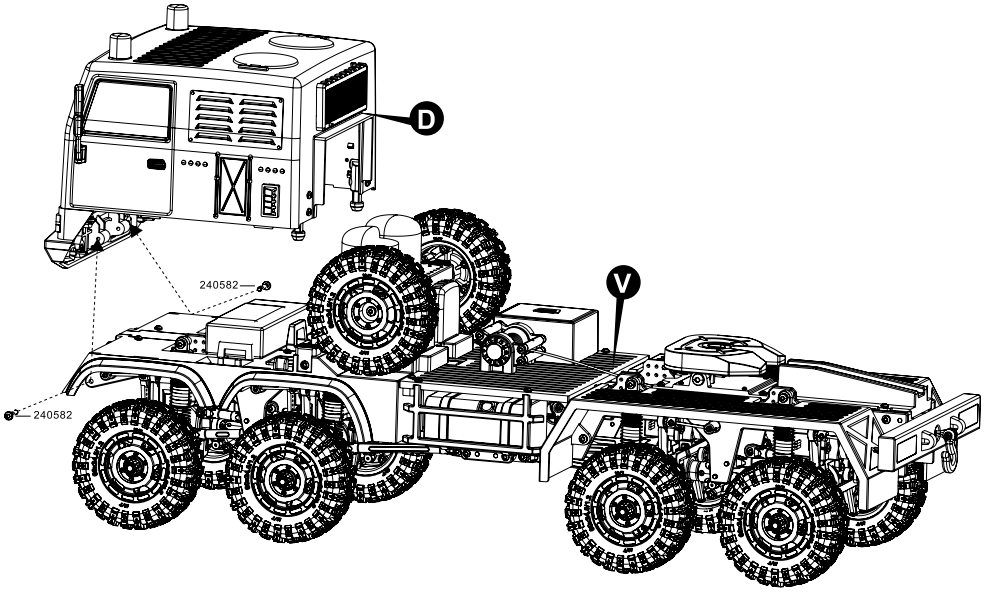
Chassis Installation U

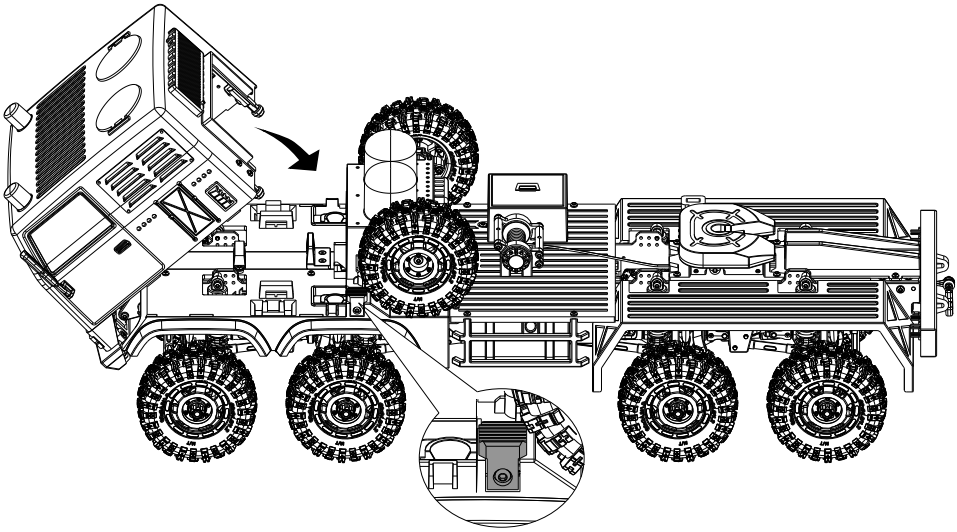


Chassis Installation V



Chassis Installation W

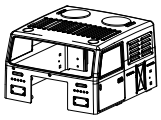




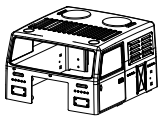
Press button open

Spare parts list

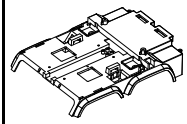
Terranaut Front Cabin (Grey)
Part No:240553



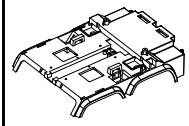
Terranaut Front Cabin (Green)
Part No:240554



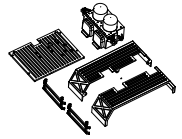
Terranaut Cabin Mount (Grey)
Part No:240555



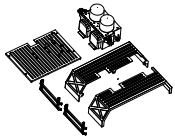
Terranaut Cabin Mount (Green)
Part No:240556



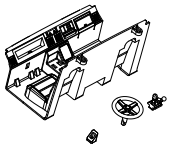
Terranaut Body Parts & Mud Guard (Grey)
Part No:240557



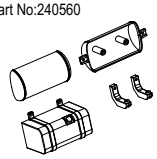
Terranaut Body Parts & Mud Guard (Green)
Part No:240558



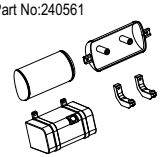
Terranaut Interior Cockpit
Part No:240559



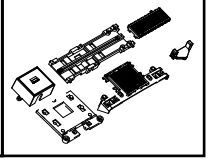
Terranaut Gas & Fuel Tank (Grey)
Part No:240560



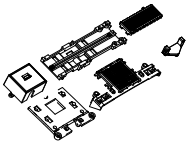
Terranaut Gas & Fuel Tank (Green)
Part No:240561



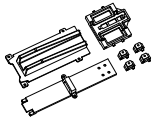
Terranaut Front Grill & Body Parts (Grey)
Part No:240562



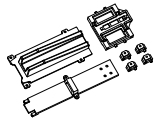
Terranaut Front Grill & Body Parts (Green)
Part No:240563



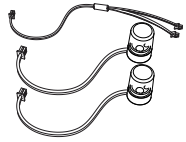
Terranaut Shift Servo Mount & Body Mounting Parts (Grey)
Part No:240564



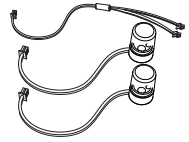
Terranaut Shift Servo Mount & Body Mounting Parts (Green)
Part No:240565



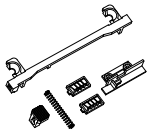
Gumball Rotating Light Kit (Grey Mount)
Part No:240566



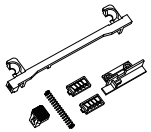
Gumball Rotating Light Kit (Green Mount)
Part No:240567



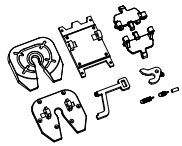
Terranaut Front Cabin Locking Mechanism (Grey)
Part No:240568



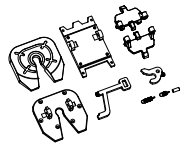
Terranaut Front Cabin Locking Mechanism (Green)
Part No:240569



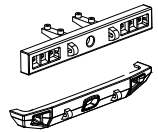
Terranaut Hauler & Servo Mount (Grey)
Part No:240570



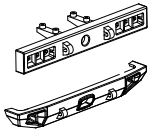
Terranaut Hauler & Servo Mount (Green)
Part No:240571



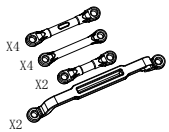
Terranaut Front & Rear Bumper (Grey)
Part No:240572



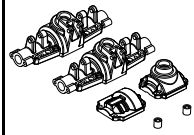
Terranaut Front & Rear Bumper (Green)
Part No:240573



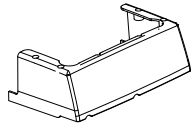
Terranaut Axle & Servo Link
Part No:240574



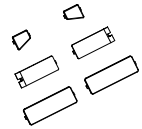
CR-18P Front Axle V2
Part No:240575



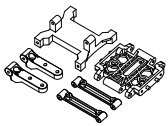
Terranaut Cabin Wind Screen (Clear)
Part No:240576



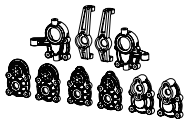
Terranaut Light Lenses (Clear)
Part No:240577



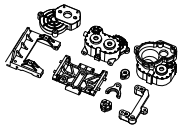
CR-18P 6X6 Skid Plate & Body Mounting Parts
Part No:240436



CR18P Portal Hub
Part No:240229

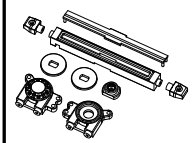


CR18P-EVO Gear Box
Part No:240300



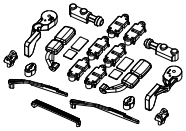
CR-18P 6X6 LInks Set
Part No:240434

Light Bars & Winch Mount
Part No:240438

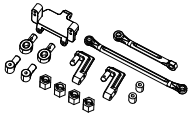


Spare parts list

CR-18P 6X6 Flat Bed Body Accesories
Part No:240439

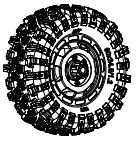


Mount & Link Set for EVO V2
Part No:240518

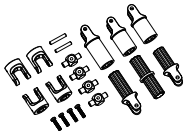


CR-18P Truck 1.2inch Bead Lock Wheel Set （Black）
Part No:240442

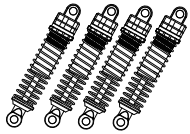
CR-18P Truck Wheel/Mudder Tire Set （Black）
Part No:240443



CR-18P HD Main Drive Shaft
Part No:240325

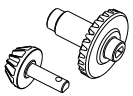


Oil Filled Big Bore Shock Set
Part No:240493



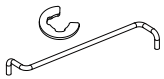
Metal Shift and Slider
Part No:240369

Optional 27% Under Drive Pinion & Ring Gear
Part No:240462

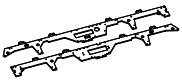


CR18P-EVO Metal Transmission Gear
Part No:240305

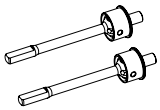
CR18P-EVO Shifter Harware （T-Hunter）
Part No:240315



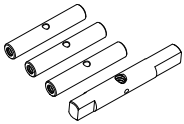
Terranaut Aluminum Main Chassis
Part No:240578



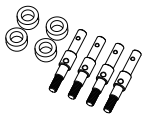
CR18P Front CVD Drive Shaft
Part No:240241



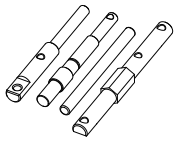
CR-18P Winch Brace/Shaft
Part No:240446



CR-18P Portal axle Shaft
Part No:240402



CR18P-EVO Gear Box Shaft
Part No:240306



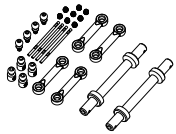
1.5x6mm Pin
Part No:240466

1 x 4.5mm Pin
Part No:240243

CR18P Spindle Hub Busing
Part No:240244

CR-18P Winch String & Hook
Part No:240451

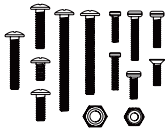
CR-18P 6X6 Anti-Rollbar Set
Part No:240445



Terranaut Ball Stud Set
Part No:240580

Terranaut bushing set
Part No:240581

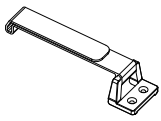
Terranaut Screw & Hardware Set
Part No:240582



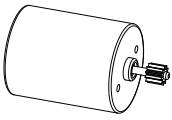
Terranaut Standard Light Kit
Part No:240583

Terranaut Fog Light Kit
Part No:240584

Battery Zip Tie
Part No:240585

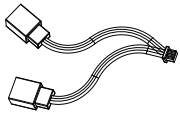


280size 55T Brushed Motor
Part No:240586

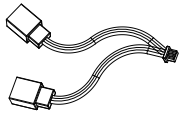


Servo Conversion Plug for Brushed
Part No:240285

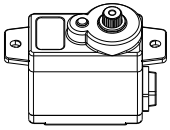
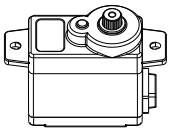
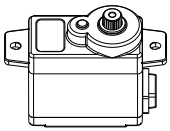
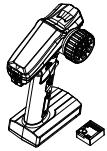
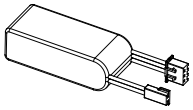
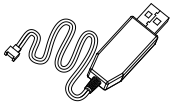
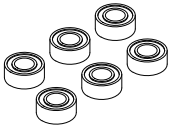
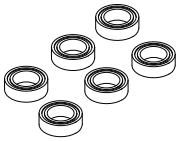
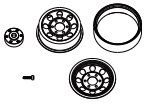
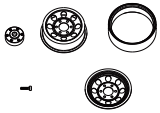
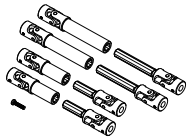
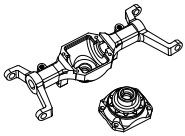
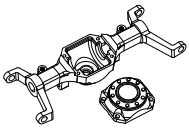
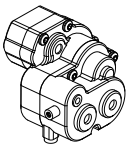
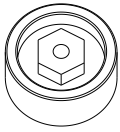
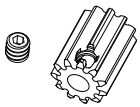
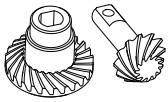
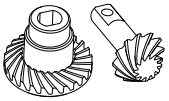
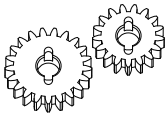
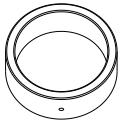
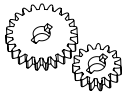
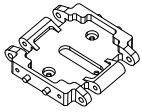
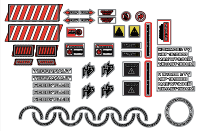
Front Steering Servo Converstion Plug
Part No:240587



Rear Steering Servo Converstion Plug
Part No:240588



Spare parts list

1.5kg Metal Gear Servo Part No:240399 	1Kg High Torque Servo Part No:240363 	Winch Servo Part No:240455 	FS-HBP 6ch + 2in1 ESC/RX V2 Part No:240589 	7.4v 1100MAH Lipo Battery Part No:240590 
7.4V USB Charger Part No:240163 	6X3X2.5 Ball Bearing 10pcs Part No:240365 	5X2X2.5 Ball Bearing 10pcs Part No:240366 	12X8X3.5 Ball Bearing 10pcs Part No:240367 	8X5X2.5 Ball Bearing 10pcs Part No:240368 
HobbyPlus 1.2in Steelie Bead Lock Wheel （Silver) Part No:240292 	HobbyPlus 1.2in Steelie Bead Lock Wheel （Black) Part No:240298 	Optional Full Aluminum Big Bore Oil Shock Part No:240339 	Terranaut Optional Metal Drive Shaft Set Part No:240591 	Machine Aluminum Mid Axle Part No:240592 
Machine Aluminum Front/Rear Axle Part No:240593 	Optional Full Aluminum Transmission gear box Part No:240509 	Optional Machine Brass Wheel Hex Part No:240511 	Machined HD Pinion Gear, 11T 0.4M Part No:240513 	Machined HD helical Cut Pinion and Ring Gear (12T/24T) Part No:240540 
Machined HD Helical Cut Pinion and Ring Gear (11T/28T) Part No:240541 	Machine Over Drive Gear (20%) Part No:240388 	Optional brass wheel weight Part No:240286 	CR18P Metal Portal Gear Part No:240238 	Machine Aluminum Front Portal Hub Set v2 Part No:240391 
Front Portal Hub Brass Weight V2 Part No:240393 	CR-18P 6X6 Aluminum Skid Plate Part No:240478 	Terranaut decal sheet Part No:240594 		

TERRANAUT

8X8 ACTIVE-AWS

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