



INSTRUCTION MANUAL

用户手册

NO.:80300B

Digital propotional radio control system

TRANSMITTER PARAMETERS

Specifications:

- channels: 2channels;
- model type: car/boat;
- RF power: less than 20dbm
- modulation: GFSK;
- Code type: digital;
- sensitivity: 1024;
- low voltage warning: yes (less than 9V);
- DSC port: yes (3.5mm);
- Charger port: yes;
- power: 12vdc (1.5aa*8);
- weight: 328g;
- ANT lenth: 26mm;
- size: 159*99*315mm;
- color: black;
- certificate: CE FCC;

- 1.通道数: 2个通道;
- 2.适合机种: 车, 船;
- 3.发射功率: 小于20dbm;
- 4.调制方式: GFSK;
- 5.编码方式: 数字;
- 6.数据分辨率: 1024级;
- 7.低电压报警功能: 有(低于9伏后);
- 8.数据输出接口: 有(3.5音频接口);
- 9.充电接口: 有(内正外负);
- 10.电源标准: 12VDC(1.5AA*8);
- 11.整机重量: 328g;
- 12.天线长度: 26mm;
- 13.外型尺寸: 159*99*315mm;
- 14.外观颜色: 黑色;
- 15.认证: CE FCC;



Thank you for choosing 2.4 G ratio remote control digital products, if you are the first time to use this type of products, please read this statement carefully and strictly in accordance with the requirements of operation. You could refer to the Manual if you meet any problems during the operation. Please well keep the manual after use because you might have to use it again next time. Once again, thanks for buying our products, If you found any problems during the operation process, please refer to the manual. If the problem still exist, you could contact our dealers to found out the way to solve.

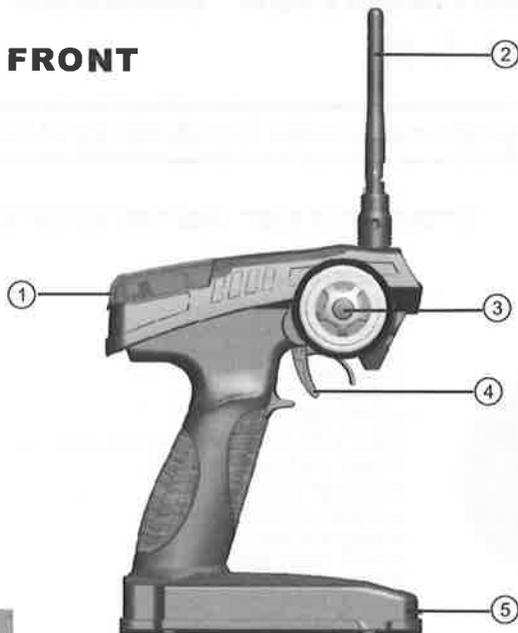
非常感谢您选择使用我们的2.4G数码比率遥控产品,如果您是第一次使用该类产品,请您在使用之前先仔细阅读此说明书,并严格按说明要求进行操作。在操作过程中您如果有遇到问题同样可以查看说明书。说明书在使用完后请您妥善保管好说明书以备后用。再次感谢您使用我们的产品,并希望它能给您带来快乐。

如果您在使用过程中发现有问題,请您第一时间先查看说明书。问題如果还不能解决,您可以跟我们的经销商联系解决。

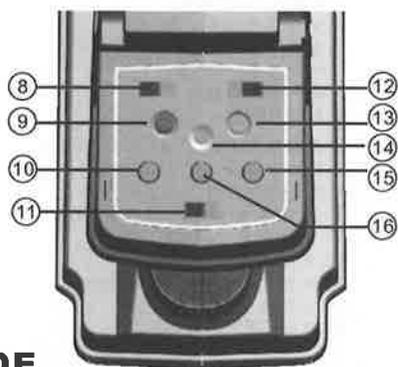
EACH PART OF THE TRANSMITTER

Digital proportional

FRONT



BACK



- | | |
|--------------------|--------------------|
| ① CONTROL BOX | ② 2.4G ANT |
| ③ STEERING WHEEL | ④ THROTTLE TRIGGER |
| ⑤ BAT BOX | ⑥ CHARGER |
| ⑦ DSC FOR SIMULATE | ⑧ ST REV |
| ⑨ POWER LED | ⑩ ST TRIM |
| ⑪ POWER SW | ⑫ TH REV |
| ⑬ POWER CHECK | ⑭ BIND |
| ⑮ TH TRIM | ⑯ D/R |

SIDE

RECEIVER PARAMETERS

A. channels: 3 channels;
 B. model type: car/boat;
 C. frequency bank: 2.4G
 D. modulation: GFSK;
 E. sensitivity: 1024;
 F. RF. receiver sensitivity: -100dbm
 G. power: 4.5-6vdc;
 H. weight: 5g;
 I. ANT length: 26mm;
 J. size: 37.6*22.3*13mm;
 K. color: gray semi-transparent;
 L. certificate: CE FCC;

1.通道数: 3个通道;
 2.适合机种: 车, 船;
 3.频率: 2.4G;
 4.调制方式: GFSK;
 5.数据分辨率: 1024级;
 6.接收灵敏度: -100dbm;
 7.电源: 4.5-6伏;
 8.整机重量: 5g;
 9.天线长度: 26mm;
 10.外型尺寸: 37.6*22.3*13mm;
 11.外观颜色: 灰色透明;
 12.认证: CE FCC;



NO.: 03020

Install the batteries to the transmitter

Insert the eight "AA" batteries to the battery compartment on the bottom of the transmitter.

Battery Precautions:

1. In order to maintain good performance, we warmly recommend you to use the 1.5V alkaline batteries instead of the 1.2 V chargeable batteries.
2. The batteries may leak in the event that they are installed with wrong polarities.
3. Do not use batteries of different types.
4. Do not mix old and new batteries.
5. Do not leave the batteries if not in use for a long period of time.

← To open the battery door



To close the battery door →



Please pay attention to the following symbols when it appears on the manual, and read carefully.

此说明书中有如下符号的地方请您特别注意，并仔细阅读。

Danger:

If the operator does not operate by following the instructions, the operator may lead to serious injuries, even Mortal danger.

如果操作者不按正常操作方法操作，可能导致操作者严重受伤，甚至致命危险！

Warning:

If the operator does not operate by following the instructions, the operator may lead to serious injuries, even Mortal danger.

如果操作者不按正常操作方法操作，可能导致操作者严重外伤，重伤或者致命情况！

Attention:

If the operator does not operate by following the instructions, the operator may lead to minor injuries, but generally it will not cause serious injuries to the operator.

如果操作者不按正常操作方法操作，可能会导致操作者轻伤，但一般不会对操作者造成重伤！

SAFTY GUIDES**Warning**

警告

**Prohibition**

禁止

**Mandatory**

强制



Do not fly in bad weather such as rainy or thundering to assure the safety of you and others.

请您不要在夜晚，刮风或下雨时使用，因为这样的天气环境会对遥控设备产生干扰，从而导致失控而产生意外！



Before you fly, please make sure the movement of server are correspond with the direction of joystick. If inconsistent, please adjust before fly.

在飞行前，请您务必先检查伺服器的各项动作是否与对应操纵杆的方向一致，如果不一致，请调整后在使用。



You need to turn the throttle channel(ch2) and inching switch to the lowest before You use. Then switch on the transmitter power ,finally connect the receiver.

开机使用时请您务必先将油门通道（CH2）及微调置最低端。然后打开发射机电源并检查电源电量，再接通接收机电源。



The sequence to shut down is that turn off the receiver power first, and then the transmitter power.

If the above operations are reverse, it might lead to uncontrolled and cause Accident.

停止使用前请您先关闭接收机电源然后关闭发射机电源。

以上操作如果反向，可能对致失控，从而产生意外！

Matching (code)

Our products are well matched in the factory, you do not need to match by yourself. But if your are going to match the receiver with other transmitter, or you need to change a new receiver or transmitter, please follow the following steps:

- A. Install the battery to 2.4G transmitter and shut it down.
- B. Insert the matching lines to the channel BIND/CH3 port of the receiver. (Figure. 1)。
- C. Connect the receiver battery to VCC port of the receiver, on the same time the two LED are flashing and this means the receiver are going to the match status.
- D. Press and hold the button on the transmitter, and then switch on the power supply.
- E. Observe the LED on the receiver, if found that the LED is not flash anymore and that means successful Matched. (This process about 5s)
- F. Release the match button on the transmitter, take out the match line.
- G. Install the server and then test.
- H. If the tests fail, please repeat the action above.
- I. If the tests success, then insert the power supply port into VCC, match complete.

我们的产品出厂前已经经过配对，您无需做配对动作便可使用。但如果您要将接收跟另外的发射机进行配对使用，或者您要更换新的接收机或者发射机，请您按如下的步骤进行：

注：我们的接收发射系统，不跟其它品牌兼容！

1. 将2.4G发射机装好电池，并关闭发射机。
2. 将配对线插入接收机的BIND/CH3通道接口（如图1）。
3. 将接收机电池插入接收机的VCC通道接口，此时可看到接收机的LED在闪烁，此表示接收机进入配对状态。
4. 将发射机上的配对键(BIND)按住，然后打开发射机电源开关。（注：不要松开按键）。
5. 观察接收机上的LED，如果发现LED不再闪烁表示配对成功。（注：此过程大约时间为5S左右）。
6. 松开发射机上的配对按键，拔掉接收机上的配对线。
7. 将伺服器装上并通电测试。
8. 如果测试NG，则重复以上动作。
9. 如果测试OK，则将电源接头插入VCC，配对完成。

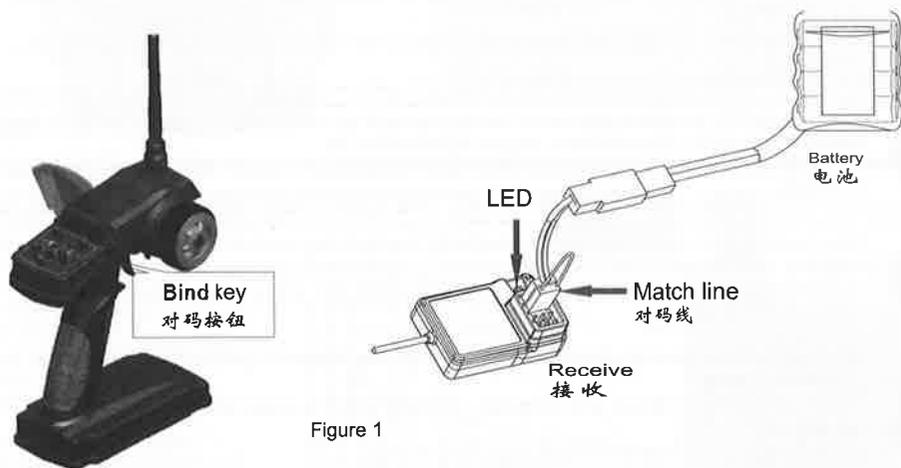


Figure 1

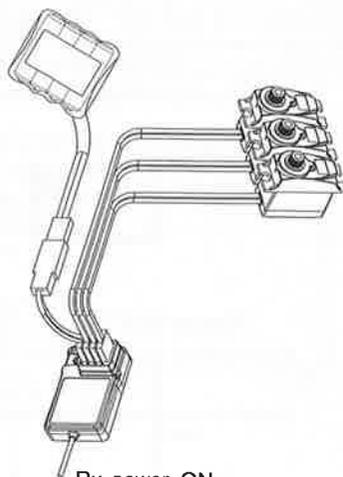
power on:

- A. Connect every part.
- B. Switch on the power supply.
- C. Connect the power supply.
- D. Receive LED light solid.
- E. Finish and use.



Tx power ON

- 1.将各部件连接好;
- 2.打开发射机电源开关;
- 3.连通接收机电源;
- 4.接收机LED恒亮;
- 5.使用.

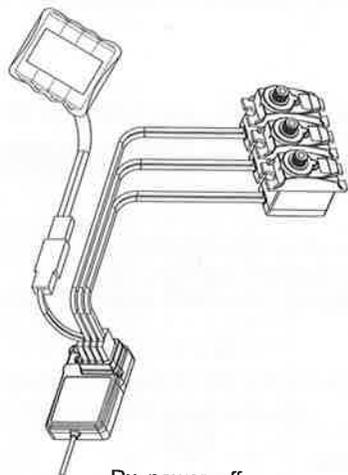


Rx power ON

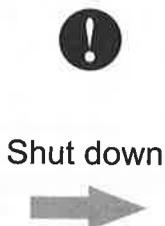
Shut down:

- A. Cut off the receiver power supply.
- B. Cut off the transmitter power supply.

- 1.关闭接收机的电源;
- 2.关闭发射机的电源.



Rx power off



Tx power off

RECEIVER CONNECTIVITY

Digital proportional

01 INSTALLATION WHEN AN MOTOR CONTROLLER IS USED

带马达模型的安装连接

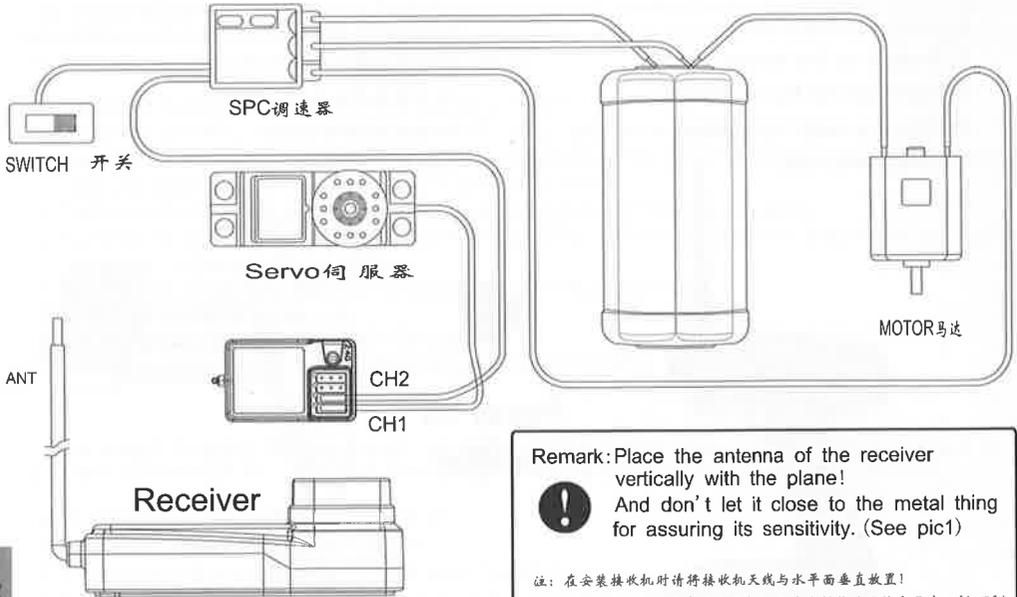
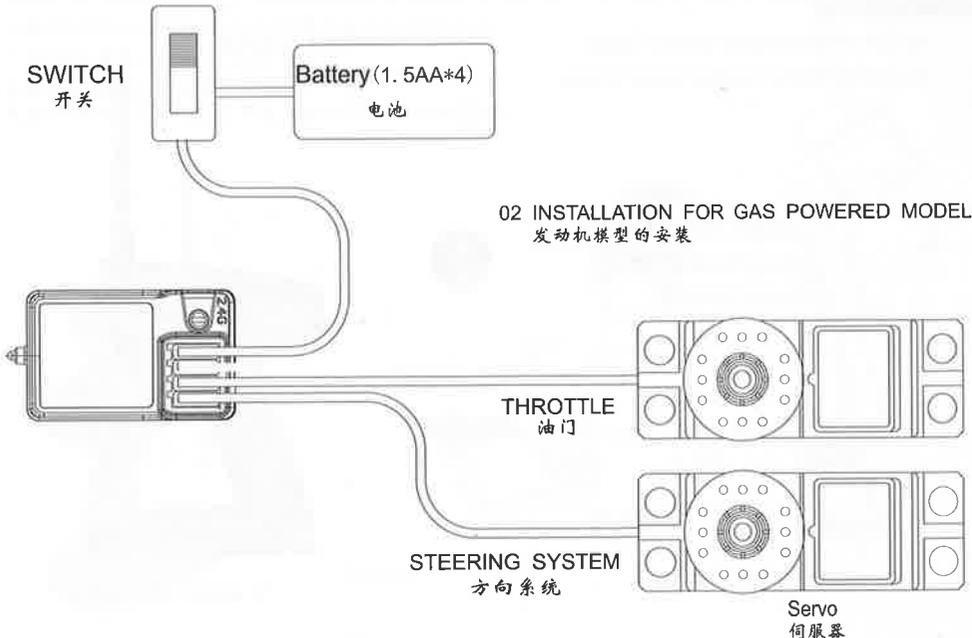


Figure 1

Remark: Place the antenna of the receiver vertically with the plane!
And don't let it close to the metal thing for assuring its sensitivity. (See pic1)

注：在安装接收机时请将接收机天线与水平面垂直放置！
且天线尽可能不要靠近金属物！因为这样接收灵敏度最高。（如图1）

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02 INSTALLATION FOR GAS POWERED MODELS

发动机模型的安装

Warning:

If your transmitter, receiver using a nickel-cadmium, nickel-metal hydride rechargeable battery, you have to well-check before you use. If lack of electricity, it could happen those phenomenon like inadequate control or out of control, resulting accident. So please charge immediately when

如果您的发射机、接收机使用的是镍镉、镍氢等可充电电池,在使用前请您务必检查电池电量,如果电量不足,可能导致控制距离不够或者失控的现象,从而产生意外,所以电池电量不足时请及时充电。

If you are using a nickel-cadmium, nickel-metal hydride batteries for recharging, please use our company dedicated charger. If the electrical current is too large and it may lead to temperature over-heated and cause fire burning accident. Please cut off the power supply immediately after recharging. Please take out the battery from the transmitter when you are not using it within a period, it is because the battery may damage the aircraft batteries, thus being exposed.

如果您使用的是镍镉、镍氢电池进行充电,请您使用我们公司的专用充电器,因为如果充电电流太大可能导致电池温度太高,从而燃烧起火带来意外。充电完成请您即时切断电源。当您长时间不使用时请您电池从发射机中取出,因为电池可能导致发射机电池片损坏,从而接触不良。

Transmitter charger:

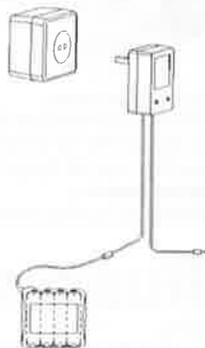
- A. Install the battery to transmitter with correct direction, and cover it.
- B. Connect the charger to the main connector.
- C. Connect the charger to the transmitter Connector.
- D. Cut off the power supply immediately after Recharge completed.

1. 将可充电电池按方向装入发射机,并合上电池盖;
2. 将充电器插入市电接口;
3. 将充电器充电接头插入发射机充电接口;
4. 充电完成后,即时将电源切断。

**Receiver charger:**

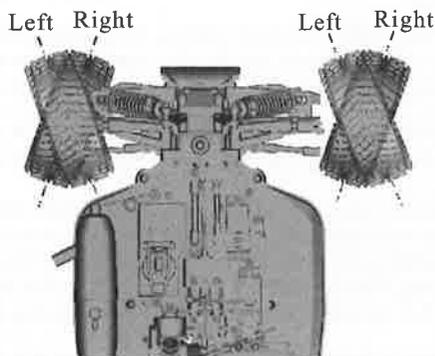
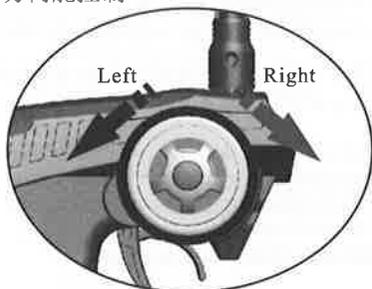
- A. Connect the charger to the main connector.
- B. Connect the Rechargeable receiver with battery charger
- C. Recharge completed, cut off the power supply immediately.

1. 将充电器插入市电接口;
2. 将可充电接收机用电池接口与充电器充电接口连接;
3. 充电完成后,即时将电源切断。



Steering Wheel

方向舵控制



Function Introduction:

This function is to control the direction, when the steering turn to right then the front wheel will turn to right (as picture), when the steering turn to left then the front wheel will turn to left (as picture).

Operation Method:

Adjust the dual rate of the steering by adjusting the D/R knob.

功能说明:

此功能是实现方向控制, 当方向舵往右旋转时车子前轮会跟着往右(如图), 当方向舵左旋转时车子前轮会跟着往左(如图)。

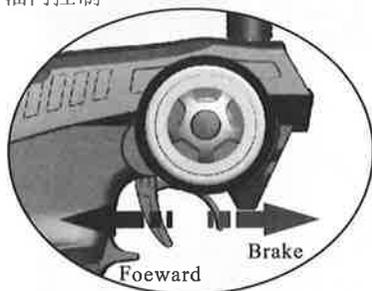
操作方法:

开机后, 通过方向舵进行方向控制, 方向舵动作大小依据实际情况进行比率调整. 方向舵最大动作量可通过D/R进行大小能量的调整。

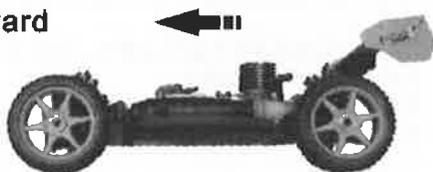
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Throttle Trigger

油门控制



Forward



Brake



Function Introduction:

This function is to control the throttle speed, when puCar will accelerate forward (see the picture), when pushing the throttle trigger, the car will put on the brakes or double ring astern (according to the different ESC) (see the picture).lling back the throttle trigger the

Operation Method:

To control it by pushing and pulling back the throttle trigger after power on.

功能说明:

此功能是实现油门(速度)控制, 当油门扣机往后打时车子会向前加速(如图), 当油门扣机往前推时车子会进行刹车或加速后退(依据不同的调速器)(如图)。

操作方法:

开机后, 通过油门扣机进行前后运行的控制。

失控保护功能说明

1. 功能说明

失控保护功能是对模型车或船进行失控保护，避免因失控造成损失。主要是对油门通道进行控制，当接收机接收不到控制信号时，接收机的油门通道将自运行到当初设定的值，以免误动作。

2. 设定方法

- 将发射机开通电源进入工作状态。
- 将接收机接通电源进入工作状态，此时信号灯恒亮。
- 控制发射机的油门通道，使油门控制伺服器或调速器进入刹车或熄火状态，然后保持不动。
- 此时将接收机的设定键（如图按下），此时接收机LED信号灯会闪烁，并在3秒左右停止。
- 设定完成。

3. 测试

- 将发射机打开进入工作状态。
- 将接收机接通电源进入工作状态。
- 将发射机关闭电源。
- 此时可看到油门通道的伺服器便会自动进入设定状态的位置。
- 以上动作如果可以完成表示设定OK

FAIL SAFE FUNCTION

1. Function

Failsafe aims to prevent out-of-control driving of RC Car or RC Boat. If the Receiver is not able to receive any signal, from the control to Throttle, the parameter of Throttle on Receiver will turn back to its original setting.

2. Setting

- Turn on the Transmitter switch;
- Turn on the Receiver switch, the LED will be lighting;
- Adjust Transmitter's Throttle, make the car/boat to stop or flameout, then keep still.
- Press the "Setting" button on Receiver (as the pic below), the LED will be flashing, then stop after 3seconds around, which means setting finished.

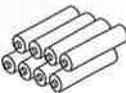
3. Testing

- Turn on the Transmitter switch;
- Turn on the Receiver switch;
- Turn off the Transmitter switch;
- Servo of Throttle will turn back to its original setting automatically;
- Setting is successful if above procedures finished completely.



9



NO:	Model	Sum	Remarks
1	2 channel 2.4G transmitter 2通2.4G发射 	1	
2	3channel 2.4G receiver 3通2.4G接收 	1	
3	MANULE 说明书 	1	
4	Charger 充电器 	1	Optional 可选的
5	Servo 伺服器 	2	Optional 可选的
6	Ni-Ca batteries 6V 500mA or aa alkaline dry batteries 	8	Optional 可选的
7			