2.4G FHSS Technology

EPA Edition

3-Channel 2.4G Radio Control System

INSTRUCTION MANUAL

- Thank you for purchasing our R/C system.
- Before using, read this manual carefully.

CAUTION

To work your R/C with your models correctly and safely,read this manual carefully and keep it in a safe way as a reference introduction in the future

Warning:

1.This product is only equipped for radio controlled models.
2.The usage of this product should be approved by local relevant law or regulations.
3.we will not be responsible for the damages caused by unauthorized modification, adjustment or replacement of parts of this product.
4.The manual maybe altered without prior notice. Please contact us if you have any corrections or clarifications that should be made in the manual.

Before starting the transmitter, make sure the transmitter batteries are well loaded. The voltage of transmitter batteries is never lower than 4.5V. And please check and confirm that the servos are all well and properly connected.

Keep the radio system away from moist, high temperature and strong shake. Do not clean the product with solvent.

The antenna does not touch anything else when power switch is turned on. Do not leave this product and its accessories within the reach of small children.

Please use this product according to your local relevant law or regulation, we are not responsible for any incidents or damages.

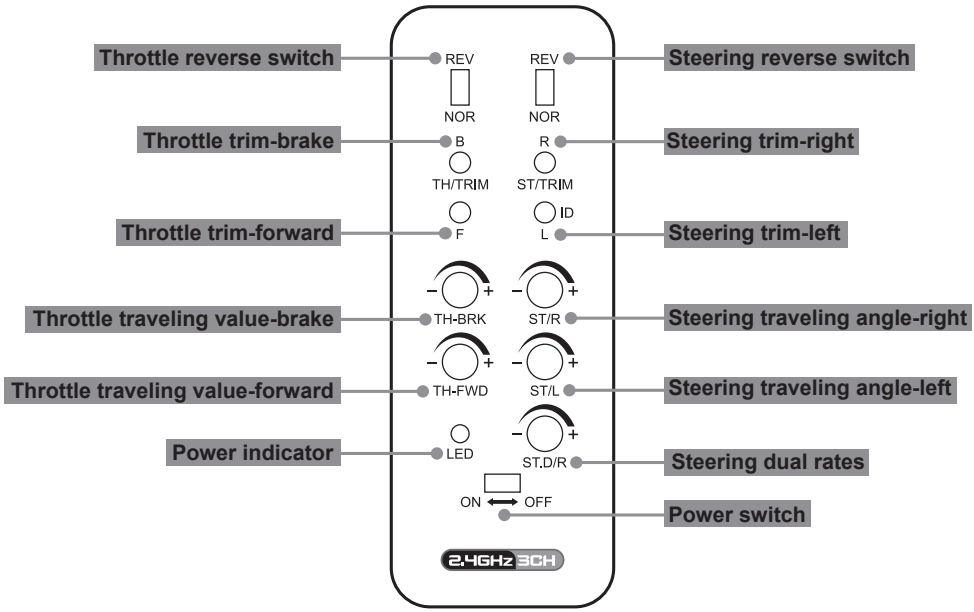
2.4G Binding

The Binding processing
Turn on the transmitter, then connect the power of receiver, pressing the receiver “BIND” button till the light turn on GREEN which means the binding is successful. After that, it’s unnecessary to bind again.

Caution:
make sure the RX and TX is within one meter, and around 10 meters no similar devices.

If the light flashing, showing the binding failure. Please do again as above indication.

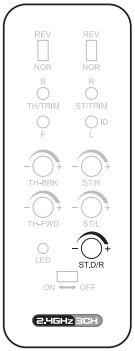
Transmitter introduction

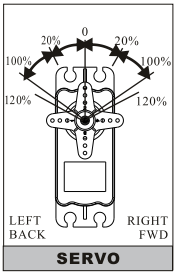


Steering Dual Rates Setup

Function
Using this function to adjust servo travel. The default is 100%, adjusting value range: 20%-120%

Setting
Rotate the “ST.D/R” knob to the left end point means steering servo of value reach minimum value.
Rotate the “ST.D/R” knob to the right end point means steering servo of value reach maximum value.

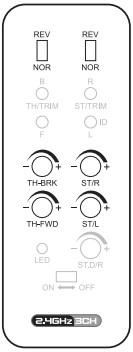




EPA Adjustment

Function

Use this when performing left and right steering angle adjustments, throttle high side/brake side operation amount adjustment during linkage. End Point Adjustment (EPA)
adjusting value range: 0%-100%



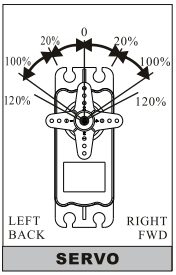
Setting
1.Steering (right side) adjustment
Rotate “ST/R” knob to the left end point means minimum value 0%, right end point means maximum value 100%.

2.Steering (left side) adjustment
Rotate “ST/L” knob to the left end point means minimum value 0%, right end point means maximum value 100%.

3.Throttle (brake side) adjustment
Rotate “TH-BRK” knob to the left end point means minimum value 0%, right end point means maximum value 100%.

4.Throttle (forward side) adjustment
Rotate “TH-FWD” knob to the left end point means minimum value 0%, right end point means maximum value 100%.

CAUTION:
When adjusting this function, make sure the direction is in agreement with the car or boat direction, you can adjust by the “REV-NOR” button.



Trim Adjustment

Please start the motor or the engine while making the adjustment of these settings.

1 .Connect the receiver, servos, and other components and then turn on the power switches of transmitter and receiver.

2.Be sure the Steering trim and Throttle trim on the transmitter are at their neutral position.

3.Before turning on the transmitter, please make sure the transmitter antenna is completely extended. Turn on the transmitter before turning on the receiver, while turn off the receiver before turning off the transmitter.

Steering Trim

Steering neutral adjustments can be made by moving the steering trim knob to the left or the right.

Racers Tip

Always check and be sure the servo is at its neutral position before installing a servo. Adjust the servo horn hole position and linkage so that both are parallel. When a servo saver is used, place it as closer to center position as possible. Be sure the steering trim on the transmitter is at the neutral position.

Trim Operation And Maximum Travel.

Changing the trim can effect the overall settings, when adjustments are made with the trims, please recheck your installation for maximum servo travel.

When Trim movement goes to extremes

That means if you make a lot of trim movement to get a servo to the neutral position, please reposition the servo horn or servo saver on the servo and inspect your linkage installation.

Caution: When find the direction is wrong, changing the relevant REV button.

Throttle Trim

Throttle neutral adjustments can be made by moving the throttle trim to the left or the right.

Racers Tip

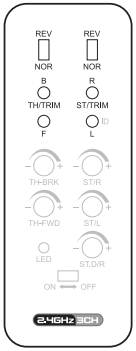
When using a electronic speed control, please set the throttle trim to neutral and make adjustments to the speed control. On a gas powered model, set the trim to neutral and adjust the linkage to the point where carburetor is fully closed in accordance with the engine instruction manual.

Trim Operation and Travel

Trim adjustments will effect the overall servo travel, so please check the (back–ward) movement after the adjustment

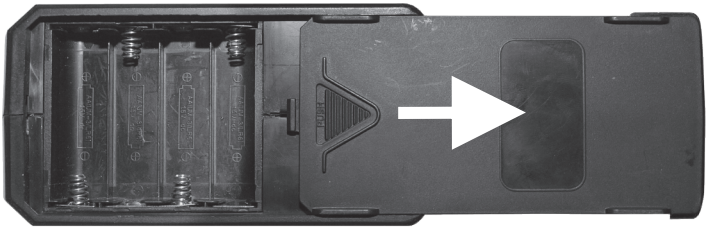
When trim movement goes to extremes

That means if you make a lot of the trim movement to get the servo to the neutral position, please recenter the servo horn closer to the neutral position and inspect your throttle linkage.



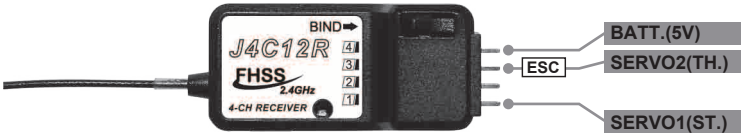
Transmitter Batteries Installation

The transmitter requires 4 “AA” batteries. Do not mix old and new cells. To install the batteries, slide open the battery door on the bottom of the Transmitter. Install the batteries in the holder as shown in the diagram (see marks molded inside the case). Make sure to note the proper polarities on each cell. Close the battery door.



IMPORTANT: Do not operate an R/C model with weak batteries as it could result in reduced range and/or possible loss of control !

Receiver Connection Diagram



Technology Data

Transmitter

Channels:3
Frequency: 2405MHz-2450MHz
Modulation:GFSK
Spread Spectrum Mode: FHSS
Number of frequency channels:20
Hopping rate:100 Jump / S
Output Power:<=10dBm
working current:<=180 mA
Working voltage: 6V

Receiver

Channel:3
Frequency: 2405MHz-2450MHz
Spread spectrum mode:FHSS
Powe:4.8V-6V/<30mA

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of FCC RF Rules. Operation is subject to the following two conditions:
1) This device may not cause interference and
2) This device must accept any interference, including interference that may cause undesired operation of the device.

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

EU Declaration of Conformity
Hereby, Joysway Hobby (HK) Limited, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.