

# ETRONIX PULSE

3-Channel 2.4G Radio Control System  
INSTRUCTION MANUAL

2.4G FHSS Technology

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



## CAUTION

- Please read this instruction manual carefully before use and keep it safe for future reference.
- Warning**
  1. This product is only for use with radio controlled models
  2. The use of this product should be approved by local law and regulations
  3. Etronix cannot be responsible for damage caused by unauthorised use, modification, adjustment or replacement of parts within this product.
  4. Due to on going R&D these instructions may be altered without notice.
- Before turning on the transmitter, ensure that you are using charged or good batteries. The voltage of the transmitter batteries should not drop below 8.6v. Check that servos and other connected units are working as expected.
- Keep the radio away from moisture, high temperatures and heavy vibration. Do not clean with solvent.
- Do not allow the antenna to touch anything else when the power switch is turned on. Do not leave this product within reach of small children.

## 2.4G Binding And Reducing Power

1 Power sw(turn on)



### 1. Reducing output power setting

1). Keeping RF-TEST button till the "ST.DT" light turn on RED, meanwhile the output power of transmitter reduce to lower mode 18dbm, which done can save the power consumption.

2). When press the RF-TEST button again, the "ST.DT" light turn off, and output power becomes normal 20dBm which can control more range.

### 2. The Binding processing

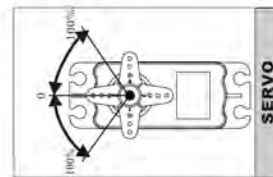
Turn on the transmitter, then connect the power of receiver keeping the receiver "BIND" button till the light turn on GREEN which means the binding is successful. After that, it's unnecessary to bind again.

Caution: making sure that the RX and TX is one meter away, and around 10 meters no similar device.

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

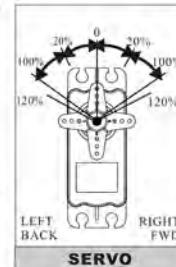


## AUX Channel Function(CH3)



Aux SW in "AUX", servo moving clockwise. In "OFF", anticlockwise.

## Steering Dual Rates Setup



### Function

Using this function to adjust servo travel.

the default is 100%, adjusting value range:20%-120%.

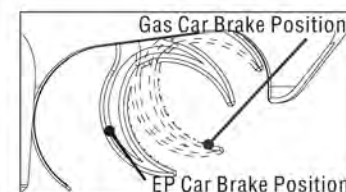
### Setting

- 1, Press the INC button and the ST.DR LED will flash green, showing the steering Servo rate value is increasing. When LED turn RED then max value has been reached.
- 2, Press the DEC button and the ST.DR LED will flash green, showing the steering Servo rate value is decreasing. When LED turn RED then max value has been reached.
- 3, When settin D/R value, shown 20%, 100%, 120% the LED appears RED. Normally the LED turns off.

### Caution:

Holding INC and DEC at the same time will reset the transmitter so the F/S function will need to be reset again.

## Fail Safe Setup



### Function

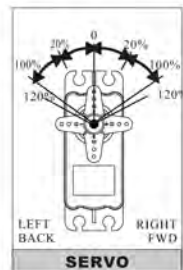
This F/S Function is protect your car or boat ,when the signal become weak or lost.

### How to Set

- 1 Make sure the RX power is enough.
- 2 Put trigger in brake position(above show),keep the F/S button till "ST. DR" led flash
- 3 Then release F/S button, the function finished



## 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(left side) adjustment

Adjusting the potentiometer"L", in"0" position shown the min. value 0%

#### 2. Steering(Right side) adjustment

Adjusting the potentiometer"R", in"0" position shown the min. value 0%

#### 3. Throttle(forward side) adjustment

Adjusting the potentiometer"MAX", in"0" position shown the min. value 0%.

#### 4. Throttle(brake side) adjustment

Adjusting the potentiometer"BR", in"0" position shown the min. value 0%

### Caution:

when adjusting this function, make sure the direction is in agreement with the car or boat direction, you can adjust by the REV 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

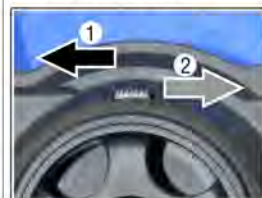
Always check and be sure the servo is at its neutral position before installing a servo. Adjust the servo horn hole position and linkage so that both are parallel. When a servo saver is used, place it as closer to center position as possible. Be sure the steering trim on the transmitter is at the neutral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

FLASH



### TURN LEFT



1. When adjust the TRIM button, the "ST. DR" LED appears GREEN flash.
2. When in the neutral position, the LED appears RED.
3. When in max position, LED appears RED flash, then all along appears.

### TURN RIGHT



## 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.



FLASH

## Handling Procedure For Batteries



### Battery Replacement

- 1) Remove the battery cover from the transmitter by sliding it in the direction of the arrow .2) Remove the used batteries.3) Load the new AA size batteries. Pay very close attention to the polarity marking and reinsert accordingly.
- 4) Slide the battery cover back onto the case.

### Caution

Always be sure your reinsert the batteries are in the correct polarity order. If the batteries are loaded incorrectly, the transmitter may be damaged.

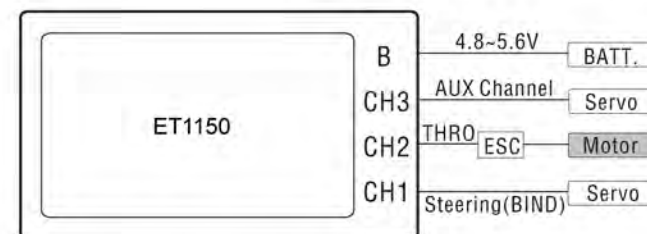
When the transmitter is not used , always remember to remove the batteries. If the batteries do happen to leak, clean the batteries case and contacts thoroughly. Make sure the contacts are free of corrosion.

### Battery Disposal

Some countries require special handling of used batteries ,please contact the agencies responsible for recycling hazardous wastes in your local area.

Battery low voltage alarm indicator.

## Receiver Connection Diagram



## Technology Data

### Transmitter

Type: ET1105

Channels: 3

Frequency: 2.4G

DC: 9.6V, ≤150mA

Meas.: 280\*190\*85mm(Packing meas.)

Net weight: 360g

### Receiver

Type: ET1150

Channels: 3

Frequency: 2.4G

DC: 4.8~5.6V, ≤50mA

Net weight: 9.0g

WWW.ETRONIX-RC.COM