

1 INTRODUCTION:

Thank you for purchasing the GWS T4GP-2.4GHz DSSS Radio System. This unit has been designed and developed using the latest manufacturing technologies and incorporate the finest modern precision electronic components.

Please read these instructions carefully in order to obtain safe operation and maximum performance from your GWS system.

2 SPECIFICATIONS:

1. Transmitter

Model number : T4GP
 Encoder : 4-Channel
 Frequency : 2.4GHz-2.483GHz(ISM Band)
 Modulation : DSSS(Direct Sequence Spread Spectrum)
 Low battery indicator : Below 4.8V(LED turn to red)

RF output power : TX: 4mV/m RX: 0.1mV/m
 Current drain : 45mA
 Power supply : 6V(1.5V X 4)dry battery
 or 4.8V(1.2V X 4)Ni-Cd battery
 Control range : 1.5ms±0.25ms(CH1,CH2,CH4)
 1.5ms±0.4ms(CH3)

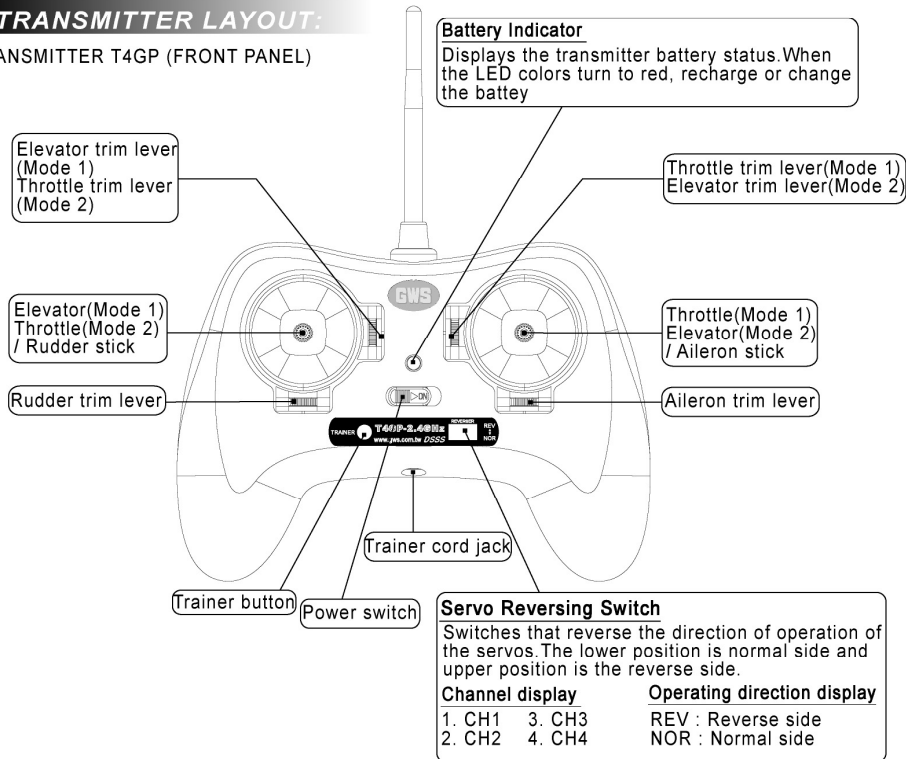
2. Receiver

Model number : R-4S
 Receiving system : 4-channel(DSSS)
 Frequency : 2.4GHz-2.483GHz(ISM Band)
 Power requirement : 4.8V or 6V
 Current drain : 35mA
 Size : 1.1X0.7X0.47"(28X18X12mm)
 Weight : 0.11 oz(3g)

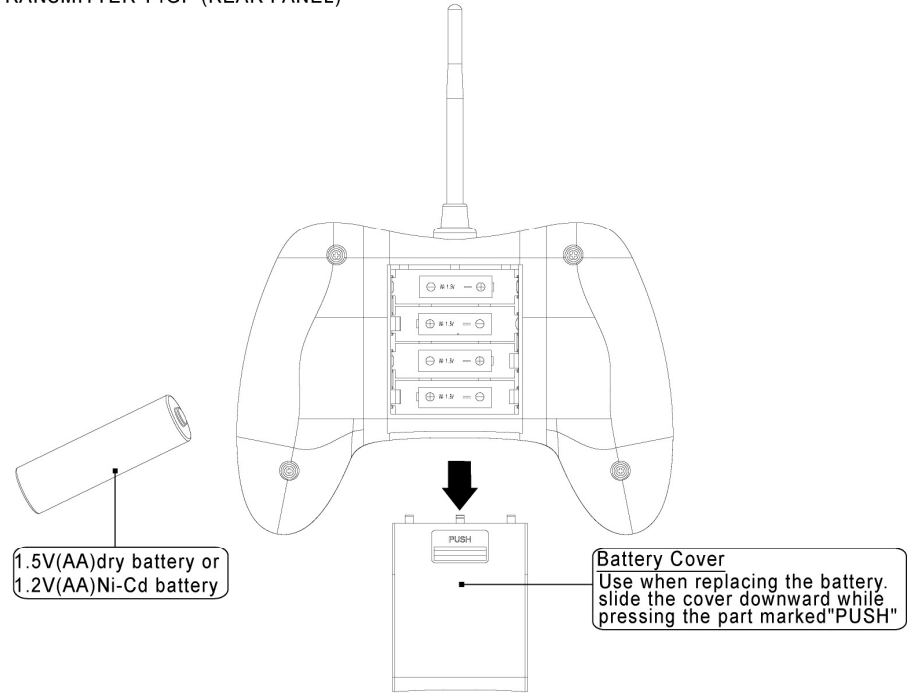
Fail-safe : In case of loss of signal or transmitter power off, the throttle channel will go to the idle position (1.0ms). The other channels will hold last position.

3 TRANSMITTER LAYOUT:

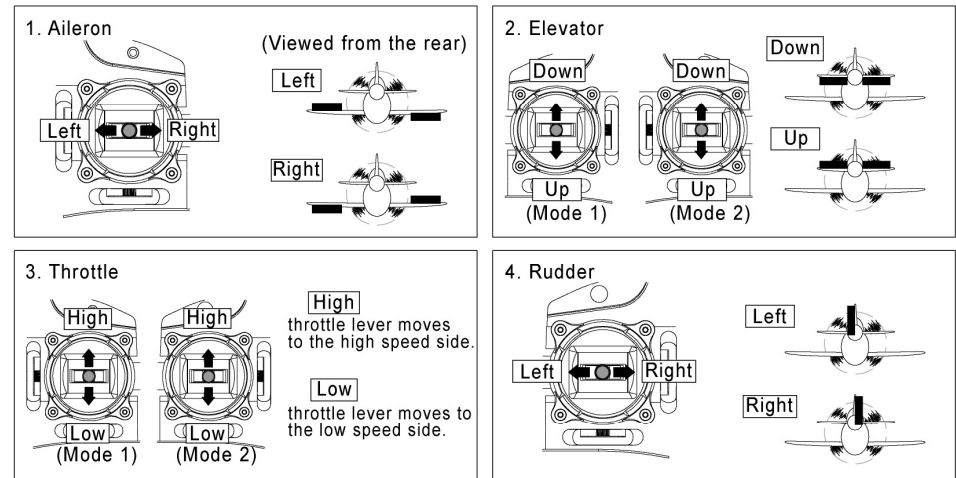
TRANSMITTER T4GP (FRONT PANEL)



TRANSMITTER T4GP (REAR PANEL)



4 TRANSMITTER OPERATION AND MOVEMENT OF EACH SERVO:

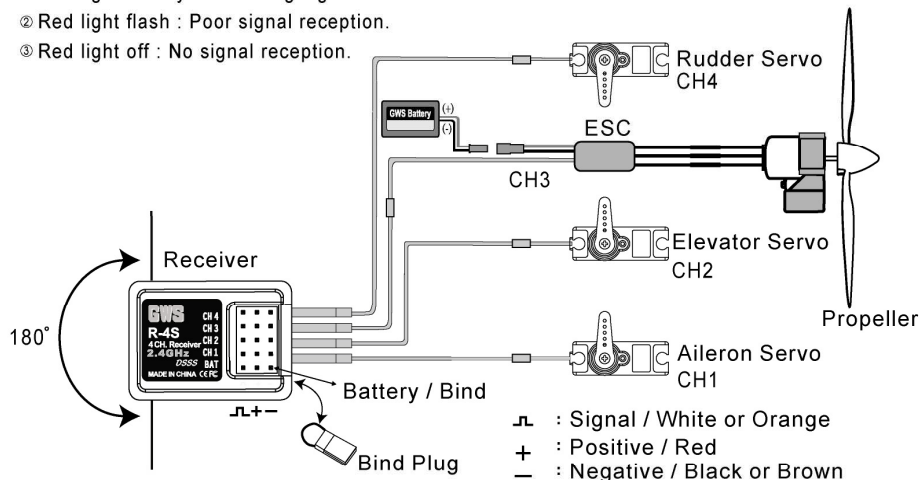


5 Receiver Installation:

For the best of reception, when installing the receiver, please refer to the following instructions.

1. Keep the two antennas as straight as possible, and should be placed at 180 degrees to each other. Otherwise it will reduce the effective range.
2. Keep the antennas away from conductive materials, such as metal and carbon by at least one inch.
3. Keep the antennas away from the motor \ ESC and other noise sources as much as possible.
4. LED display

- ① Red light steady : Receiving signals.
- ② Red light flash : Poor signal reception.
- ③ Red light off : No signal reception.

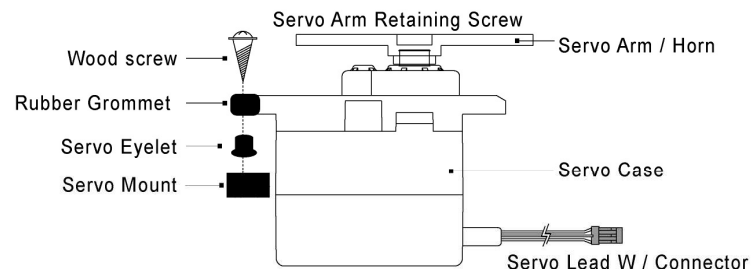


6 Binding:

Each transmitter and receiver has a unique ID code, the receiver must be linked with the ID code of the transmitter with which it is being paired. Binding is the process of programming the receiver to recognize the ID code of a single specific transmitter, so that the receiver will only listen to the information from its previously bound transmitter and ignores everything else. (For T / R set, the paired is already done at factory. When you purchased another R-4S, this procedure is necessary, otherwise the receiver will not work)

1. Place the transmitter and receiver close to each other within one meter.
2. With the power off, plug the bind plug into the BAT port.
3. Power on the receiver by connecting the battery to any unused port. The red LED should be blinking.
4. Turn on the transmitter (This procedure must be completed within 10 seconds after the receiver turn on.)
5. When the binding is complete, the red LED in the receiver will change to steady.
6. With the transmitter and the receiver power off, remove the bind plug.
7. Please confirm that the receiver will now operate by your transmitter.

7 SERVO INSTALLATION :



8 TRAINER FUNCTION SYSTEM :

The trainer function is a very effective way for training students. To use it, the special trainer cord (sold separately) is necessary.

1. Match the servo reversing and trims of both radios.
2. Turn on the power switch of instructor transmitter. The student transmitter must be left off, then plug the trainer cord into both transmitters, the student transmitter power indicator will automatically turn on.
3. When the trainer switch (instructor side) is not pressed, the instructor has control, when the trainer switch is pressed, control is transferred to the student.

Warning: Never turn on the student transmitter power switch, it will cause interference and a crash.

9 PRECAUTIONS:

1. Since the 2.4GHz have different characteristics than that of the conventional 27MHz & 72MHz frequencies. Please keep the model in sight at all times as large objects can block the RF signal. Please keep in mind that objects such as wire fences and wire mesh will also cause loss of signal.
2. The T4GP system is designed for micro electric-powered aircraft only, it is imperative that the system not be used in larger aircraft that could exceed the range.
3. Always turn the transmitter on first, then the receiver. When you turn the system off, always turn the receiver off first then transmitter.

This step is very important always follow this procedure. If this procedure is not followed, injury to yourself and others as well as loss of control could occur.



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