

# TX400-72FM Radio Control Transmitter

## Instruction Manuals

### 1. Summarize of circuit

The TX400-72FM transmitter is made up with High-Frequency (HF short for as follows) circuit and Low-Frequency (LF short for as follows) circuit. Separately, the HF part include RF Oscillation, RF Amplifier, Power Amplifier and Matched Impedance Antenna circuit, and Modulation Signal Source, Shaping circuit are included in the LF part.

This transmitter comprises 4 proportional control channels.  $P_1 \sim P_4$  is the control pot of each proportional channel. When different voltage being sent into correspondence pins of MCU PIC16F676, the pin 5 outputs a pulse train used to modulating carrier signal.

### 2. Electronic specification

Operation frequency: 72.130~72.870MHz, 10 different frequencies in all and stepped by 82.22KHz.

Modulation degree:  $f_o \pm 3\text{KHz}$  ( $f_o$ =Standard frequency)

Output power: 1W

Channel: 4 proportional

Operation voltage: 9.6V

Operation current: < 180mA

### 3. Using guide

. As the picture 2 shown, installing 8 cell "AA" Nicd or NiNH battery into battery case.

. Power on the transmitter, all 3 LEDS (from left to right: red, yellow and green) illuminated until the battery voltage drops 9.0V, green LED goes dark at 8.6~8.9V and yellow LED goes dark lower than 8.6V, it has to be charged at this time.

. As the picture 1 shown, 2 control sticks on the main board used operation form as follows:

Left stick:

Up and Down is Throttle

Left and Right is Rudder

Right stick:

Up and Down is Elevator

Left and Right is Aileron

Every channel has a Trim Levers on the side of each stick.

. Reverse switch for CH1~CH4 are beside the power switch.

. In the left corner, there is a trainer switch, when the 2 transmitter connected by a trainer core with the trainer jack at the back of the transmitter, stir the trainer switch can make the two transmitters have the trainer function.

. As the picture 2 shown, it is the back drawing of the transmitter, at the bottom left side is charger jack, below is the connect form of R6M-72F receiver, servos, and battery pack.

Note:

This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 95 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 instruction 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 TV 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.