

## JMP Combo Receiver for servos

The JMP Combo receiver has been developed for the lightest models, powered by a single Li-Ion Polymer cell or 2 to 4 Nickel-Cadmium cells.

The receiver has four outputs : three for servos, and one electronic speed control for the main propulsion motor.

The ESC output is rated at 1.5 A (2.5 A peak)

The antenna matching circuitry of the JMP Combo receiver is designed so that a shortening of the antenna in case of a small model or the lengthening of the antenna for increased control range, do not require retuning of the receiver.

An undervoltage detection circuit switches off the motor under 3 Volt, and prevents Lithium battery damage.

### Operation

- 1) Switch on the transmitter first, the throttle stick being in the idle position, the other sticks in their center position.
- 2) Then switch on the receiver.

After one second, the receiver automatically identifies the throttle channel and its direction. It is programmed to identify four configurations, found in most available transmitters :

Channel No.				
1	Throttle	Aileron*	Aileron*	Aileron*
2	Aileron*	Throttle	Elevator	Elevator
3	Elevator	Elevator	Throttle	Rudder
4	Rudder	Rudder	Rudder	Throttle

\* The aileron stick is used for rudder in 3-channel models.

Once the identification is done, the servos become active.

### Warnings :

- 1) Wrong polarity of the battery or a short circuit of one of the outputs is likely to damage the receiver.
- 2) It is advised to keep a minimum distance of 50 mm. between the receiver and electrical noise generators such as motor and battery.
- 3) Keep the antenna away from the rest of the electrical installation and any carbon structure.
- 4) A comparative range test with and without the motor running is recommended before the first flight of your model.

### Specifications :

Functions : 1 ESC, 3 servos, motor switch-off if < 3V\*

Dimensions : 30 x 12,7 x 6 mm.

Weight : 1,52 g. (bare), 1,86 g. (+ micro-crystal), 2,0 g.(+ 450 mm. antenna), 2,4 g.(+ 4 JST connectors)

Selectivity : 10 kHz

Ground range : 100m. minimum.

Battery voltage : 2,0 to 4,5V.

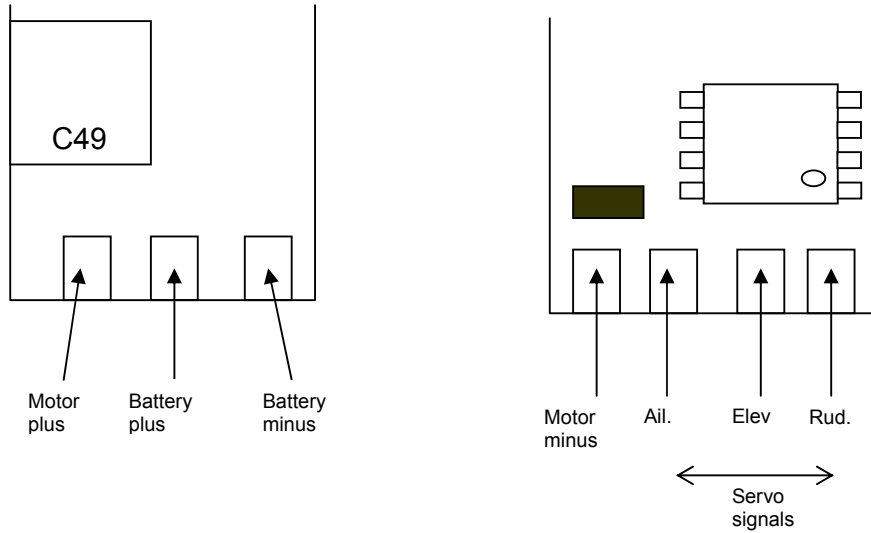
Current drain : 6 mA.

Motor output : 1,5A (2,5 A peak), frequency : 2,5 kHz

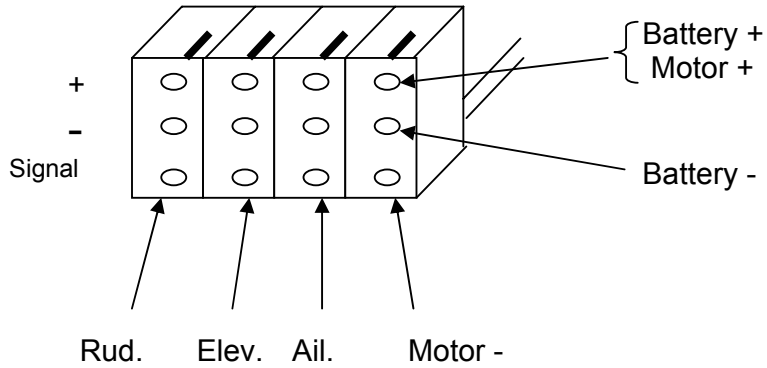
\* Contact us for inhibiting the undervoltage detection (For 2 NiCad use)

Connecting the outputs :

1- Receiver without connectors :



1- Receiver with JST connectors :



Preparing the  
Crystal

