

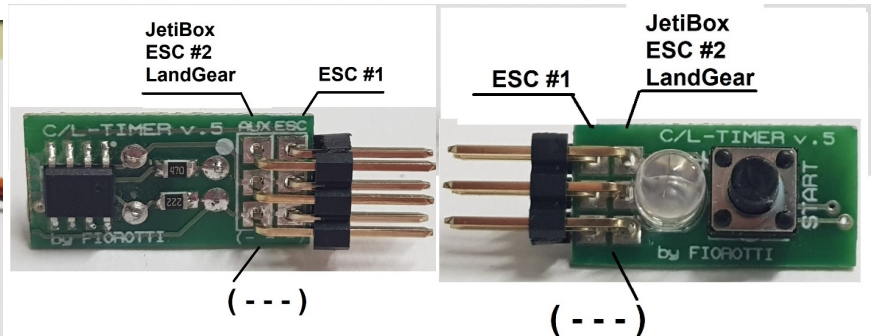
C/L TIMER v5.p

www.cltimer.com

by Fiorotti

Programming:

Your Timer comes with a pre-set program for initial flights. In order to change the parameters, **Make sure the timer is turned off**, and plug in the JETI BOX as shown.



To navigate through the screens press the horizontal arrows ◀ ▶ and to change parameters use vertical ▲ ▼



First screen:

On the left you have the total of flights done. To change it hold **START** pressed and use the arrows to set value ▲ ▼. Right number is the firmware version



(Delay Time) Pre-flight:

You can adjust engine start time to begin after a 30 to 90 second delay.

We recommend to begin with 45 secs. at least.

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Flight Time:

The flight time can be set to a minimum of 1:00 min. and maximum 7:00 min.

For first flights we recommend to limiting to 1:00 min until you find the optimum flight speed. After flight speed or lap time is determined, you can slowly raise the flight time and check the battery level, never allowing to go below 20% or 3.7V per cell.



(RPM Set) Engine RPM:

Adjust the RPM steps to set the lap time, or the to set RPM. For Castle ESC 110 is suggested for starting, and for Jeti Spin ESC, 230.

The value on the left is a reference of steps, and works within 0 to 400. On the right, the PWM signal as sent to the ESC in milliseconds between 1.200 and 2.000ms.



(AUX Mode) Auxiliary channel setting:

Defines the function of the auxiliary channel as landing gear or second ESC for use in twin engines.

To change press **START**.



(Gear Mode) Landing Gear:

There is 2 parameters you can control for the landing gear:

Actuation time or blocking (Off) using arrows ▲ ▼.

Working direction Normal or Reverse pressing **START**.

Landing gear will close within the set time after flight starts and will open 10 secs before end of flight.



(ESC Mode) 2nd Engine RPM:

You can fine tune 2nd engine RPM based on ESC1 settings up to PWM +/- 0.100ms. This feature is usefull for twin engines to achieve proper flight trimming.

ESC Castle Adjustment:

THROTTLE

Vehicle Type: **Control Line**

Throttle Type: **Governor Mode**

Governor Mode: **Governor High**

Initial Spool_Up Rate: **20**

Head Speed Change Rate: **18**

BRAKE

Brake Strength: **100%(Hard)**

Brake Delay: **No Delay**

Brake Ramp: **Medium**

MOTOR

Motor Start Power: **High (100)**

PWM Rate: **8Khz**

Hints:

Use high quality material on installation;

The sensor detects minimal angle variation of the model and vibration from engine, propeller and spinner. We strongly recommend the use of 3 blade propellers to achieve best performance and to carefully balance them.

Do not invert connections as this will damage the system.

Safety:

Keep away from the propeller, most speed controllers ESC`s have a safety feature to cut engine when overload happens, but this won't prevent injuries from misuse.

Request help to hold your model until you have the safety strap in your wrist and ready to start flight

Warranty:

12 months.

Tight Lines!!