E-Aeromotive Timer ESC Driver

The Timer ESC Driver is a on-board ESC Driver and Timer. Using the on board 4 position dip switch you can set the run time of your motor in 1 minute steps from 1 to 15 minutes. Using a separate 5vdc source can also drive a servo.

It has various safety features:

Control Potentiometer must be set to Minimum before Arming.

While running, pressing any switch will kill the Motor.

Lets go fly!

Before connecting the board and your battery, set the Flight Time Dip Switch. Setting switch to "OPEN" side enables 1,2,4 or 8 minutes of flight. Setting multiples of switches will add up the values selected. See the following chart.

Before proceeding to using unit, it's highly recommended that you Remove your Propeller before testing and to get used to the procedure.

Note that the user assumes all liability while using this product. Manufacturer is not liable for its use as there is no control on How When or Where it is used. If the user does not agree to this then contact manufacture for return and refund.

Set the switches as per the chart for the motor runtime you wish. If you wish to change the run time, you must unplug the unit and then set switches. Switches are read at power on time.

The run time will not affect the ESC auto shut down as set in the ESC. If motor shuts down prior to time set, ESC may have shut down due to low battery voltage.

There is a multi-step process to enable the unit. This is for safety, Treat As Prop is Spinning at All Times!

Step 1: Connect ESC throttle cable as shown. Then connect Battery to ESC. First LED by Red Switch will Flash. Press RED switch and the startup sequence will start.

Step 2: If LEDs by Start and Fly are Flashing the Speed Control is not at Minimum (fully CCW). Rotate control till Both LEDs stop flashing. Then ARM LED will flash long then short flashes depending on the time set. It will do this 3 times.

1	2	3	4	Minutes
Open	Closed	Closed	Closed	1
Closed	Open	Closed	Closed	2
Open	Open	Closed	Closed	3
Closed	Closed	Open	Closed	4
Open	Closed	Open	Closed	5
Closed	Open	Open	Closed	6
Open	Open	Open	Closed	7
Closed	Closed	Closed	Open	8
Open	Closed	Closed	Open	9
Closed	Open	Closed	Open	10
Open	Open	Closed	Open	11
Closed	Closed	Open	Open	12
Open	Closed	Open	Open	13
Closed	Open	Open	Open	14
Open	Open	Open	Open	15
Closed	Closed	Closed	Closed	error

Note: After Fly Button is pressed, Pressing Any Button will Stop The Motor.
Always Handle the Model as The Propeller is Moving!

Step 3:   After Timer flashes and Control in minimum position ARM LED will flash.
After this step The Prop will Rotate! Proceed Safely. Be Behind Aircraft!
Depending on type of ESC it may need to be ARMED or will be enabled to fly. Consult manual for your ESC!

Press ARM Button (**Blue**). At this point ESC may make a tone noting Throttle signal at minimum and present.

If ARMing is not needed moving the Throttle control will Rotate the Prop!

If ARMing is needed rotate Throttle control to max CW. Again a possible tone, then rotate back fully CCW. **Moving the Throttle control now will Rotate the Prop!**

Now you can set the Speed of the Prop you wish to fly for this session. Rotate the Throttle control to your preference.

When your ready, press the Fly Button (**Green)**
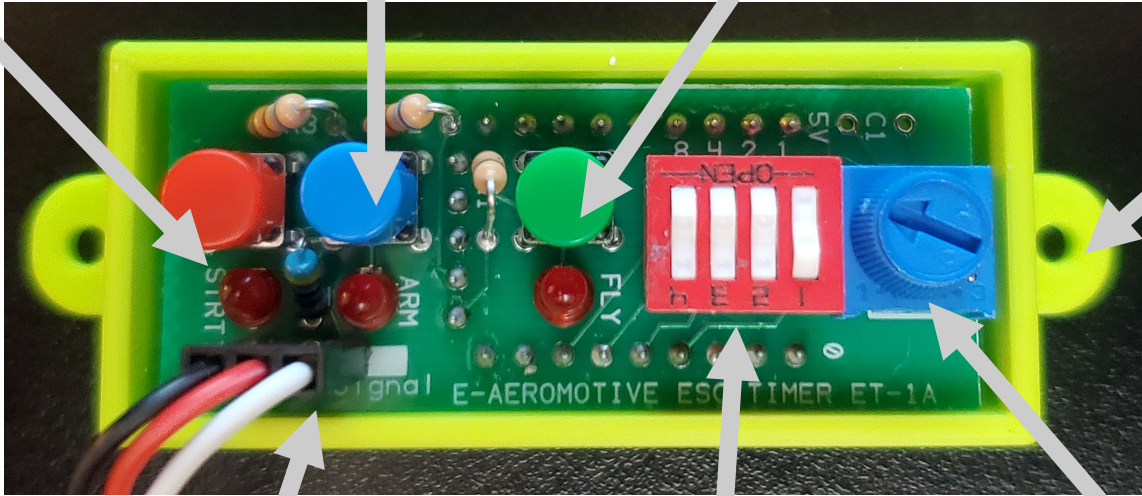This locks in that speed and starts the timer you set on the DIP switches. When time is up, the motor will shut down gradually in 15 seconds. When Flight time is done all 3 LEDs will blink.   **Go Fly and Enjoy!**

Note: After Fly Button is pressed, Pressing <u>Any Button</u> will Stop The Motor.

RED Start Button
and its LED

BLUE Arm Button
and its LED

GREEN Run Button
and its LED

Mounting lugs (2)
to secure unit to
aircraft

ESC Throttle Input
Connection.
White Marker Denotes
SIGNAL Lead

Timer Switches. Set
as shown in chart on
page 2.

Throttle SET
Potentiometer