

# Blue Lantern Modules TW Tap Tempo LFO

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This is the latest take on the electricdruoid.com based tap tempo lfo by Tom Wiltshire. This module uses a pic chip with his latest firmware code version '2D'. For more information about his work and this project please visit: <http://www.electricdruoid.net/index.php?page=projects.taplfo>

There is also a technical data sheet for the firmware found here:  
<http://www.electricdruoid.net/datasheets/TAPLFO2Datasheet.pdf>

Let's make sure you downloaded the correct reference manual. Your module should look like this:



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This module is really easy to use. I will explain the controls and the best way to use them.



1. Rate knob: this knob is used to adjust the overall frequency rate of the lfo. The blue LED above 'LCV' jack will give you visual feedback how fast the lfo is pulsing.
2. Multiplier Knob: this is used to multiply the rate frequency of the lfo. You can multiply the initial rate by values: x0.5, x1, x1.5, x2,x3, and x4.
3. Wave Type Knob: use this knob to select a wave type. Use the panel graphics to help you. The last wave is a 'Random' wave or sample and hold.
4. Wave Distort Kob: this knob will distort the wave shape currently selected by the Wave Type Knob. The sample and hold or 'Random' wave will not be affected by this knob.
5. LCV Knob: this is short for Level Control Voltage Knob. This is a level attenuator for the cv input jack 'LCV' and is directly involved with the Level Output knob (knob#6). You can adjust just how much external modulation you want with the output.
6. Level Knob: this parameter controls the Level output of the lfo and simulates a VCA. Use the 'LCV' jack and knob to make it behave like a VCA.

There are two possible input jacks on this module.

\*Level CV input

\*Sync input

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There are three possible output jacks

\*Trigger out jack: this is a trigger output useful for clocking other modules. A nice fixed short pulse will be outputted by this jack.

\*LFO out jack: this is the overall main output of the lfo. You will not get a signal if the Level Knob is set to 'zero' or fully counterclockwise. This is due to the VCA simulation on the output.

\*Thru jack simply passes whatever you patch into the 'Sync' jack.

There is an onboard tap tempo button used to synchronize the lfo manually to external gear.

Use the Red LED as visual feedback to see the rate of the tap taking place. Once the overall tempo is set you can use the Multiplier knob to musically change the speed while still keeping in beat. If your other gear has a clock, you can patch it to the 'Sync' jack input and it will 'tap the tempo' for you. An analog LFO, or VCO can also be used to experiment with the 'Sync' jack.