



TAP-A-WHIRL V4

Cusack Music
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CUSACKMUSIC.COM

Manufactured in
Holland, Michigan, USA

Connect to **EXP/TAP/SYNC** for:
-EXPrsion pedals with TRS plug. This can be set for any one parameter per preset. To configure, see next page.
-External TAP tempo switches (normally off/open) with a TS plug.
-SYNC analog clock signal (2-5v square wave) with TS plug.

For a mono output signal, use **[L] OUT**. For a stereo output signal use both **[R]** and **[L] OUT**. Stereo output can be utilized with a mono or stereo input signal.

For a mono input signal, use **[L] IN**. For a stereo signal, use **[L]** and **[R] IN**.

Power with a standard **9V DC** center-negative power supply. Current draw ~22mA

RATE controls the speed of the LFO. Using TAP tempo overrides this control.

Use **OPTION** to adjust **Divide** (tap tempo subdivisions), **Fade-In** time, and **Brake Speed**. See next page for details.

Use the **WAVE** switch and knob to select the LFO wave shape. See next page for wave shapes.

DEPTH controls the amplitude of the LFO, or how deep the tremolo is.

LEVEL adjusts the output volume. Use this to add make-up volume for the perceived volume loss at high **DEPTH** settings.

To **SAVE PRESET**, hold **BYPASS-left** and **BYPASS-right**. See next page for details.

Tap **BYPASS** to engage/disengage the effect. In Preset (startup) mode, this engages the right preset. Hold for **Brake** to increase **RATE**.

STEREO PHASE adjusts the phase offset of **[R] OUT** in stereo. Adjustable between 0 and 360 degrees. The knob straight up is 180 degrees for symmetrical left and right panning.

Tap **BYPASS** to engage/disengage the effect. In Preset (startup) mode, this engages the left preset. Hold for **Brake** to decrease **RATE**.

TAP tempo. Interactive with **Divide**. Overrides where **RATE** knob is set.

To cycle through preset banks, tap **BYPASS-left** and **TAP**. There are four banks: red, green, blue, and pink. Each **BANK** can store a preset for the left and right footswitches, for a total of eight possible presets.

To enter **LIVE** mode, hold **TAP** and **BYPASS-right** for two seconds. **LIVE** mode disables preset mode, all knobs function in their physically set positions. Center LED will alternate white.



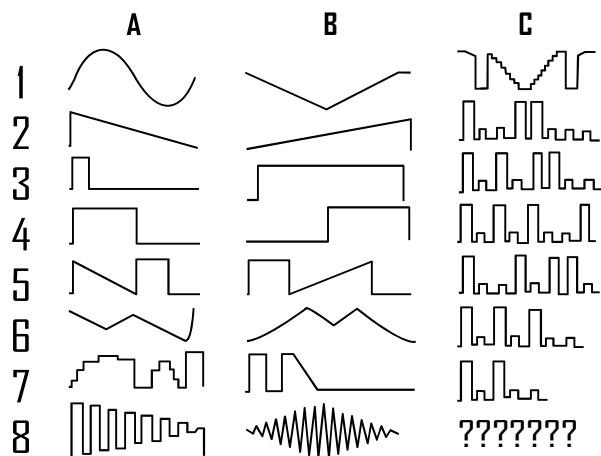
Thank you for your purchase of the Cusack Music Tap-a-Whirl V4! The V4 is the latest refinement of what is the world's first tap tempo tremolo. While retaining the warm analog sound the original is known for, the TaW V4 adds to the legacy with a number of new features. With a preset system to save favorite settings, stereo output with phase control, expression pedal capability, and remote tap and sync features, the V4 reasserts its position as the best tremolo pedal money can buy. We hope you enjoy many hours of creativity while discovering its potential! -The Cusack Music Team

OPTION CONTROLS

Use the left 3-way toggle to select the function, then use the OPTION knob to adjust the parameter. Each function is completely independent.

	Divide (left)	Fade-In (center)	Brake Speed (right)
1 (up)	1/4	none	longest
2	1/3	2.1 sec	
3	1/2	4.3 sec	(times varies
4 (3 o'clock) 1x		6.4 sec	depending
5	2x	8.6 sec	on current
6	3x	10.7 sec	RATE)
7 (down) 4x		12.9 sec	
8 (7 o'clock) 6x		15 sec	fastest

WAVE SHAPES



BRAKE RELEASE

Hold TAP and toggle the 3-way OPTION switch to desired Brake release function:

- Left - Hold rate
- Center - Snap back to original rate
- Right - Drift back to original rate

SAVE A PRESET

1. Hold BYPASS-left and -right footswitches about 1 second until yellow LEDs alternate.
2. Cycle to desired bank by pressing BYPASS-left and TAP.
3. Choose BYPASS-left or -right to save to that location. Yellow LED will stop blinking.

OTHER SPECS

- Analog signal path
- Buffered bypass based on Cusack More Louder
- 4.75" x 3.85" x 2.25" (L x D x H)

CONFIGURE EXPRESSION PEDAL - Full Range

1. Begin in the preset you would like to adjust. Do NOT connect expression pedal.
2. Hold all three footswitches for .5 seconds (yellow LED's will blink slowly).
3. Move the knob you would like the expression pedal to control.
4. Exit configuration by tapping any footswitch. Don't forget to save the preset!

CONFIGURE EXPRESSION PEDAL - User Selected Range

1. Begin in the preset you would like to adjust and connect expression pedal.
2. Hold all three footswitches for .5 seconds (yellow LED's will blink slowly).
3. Move expression pedal to HEEL DOWN and adjust desired knob for desired heel down setting.
4. Move expression pedal to TOE DOWN and adjust the same knob for desired toe down setting.
5. Exit configuration by tapping any footswitch. Don't forget to save the preset!

FACTORY RESET

Hold all three footswitches and plug in 9V power to restore to factory default settings.

