PEdAL SYnC™

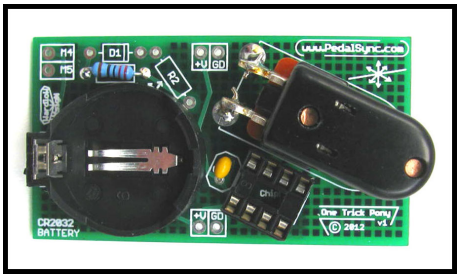
AUDIO CONTROL CHIPS

the future just showed up

# PedalSync™

## One Trick Pony

## MIDI Data Module




### Key Features

- Discrete MIDI Data delivery in a compact design
- Designed to send specific MIDI information upon each press
- Ultra-low current requirement means a single coin cell will last years
- Matching machined aluminum enclosure available
- Current models include Digitech™ Whammy™ 4, 5, and DT settings selectors and Bass Whammy Emulators, Line 6™ tap tempo pedal, and MIDI Sustain pedal
- Custom programming available - email us for information at info@PedalSync.com
- Daisy-chain multiple modules for more complex applications

## One Trick Pony Versions

There are currently 8 versions of the One Trick Pony device:

***Linus***
Line 6 tap tempo controller. Per the *Line 6 MIDI Continuous Controller Reference* guide, ***Linus*** is compatible with Floor POD Plus, POD 2.0, POD Pro, POD XT, Bass POD XT, POD X3 Live, POD X3 Pro, Vetta II, Vetta II HD, Flextone III, HD 147, Pocket POD, and Gear Box Software, although we have only tested *Linus* with the POT XT. **All Line 6 MIDI data is sent on Channel 1**.

***MIDI Sustain***
MIDI Sustain pedal which sends data on MIDI Channel 1.

***opiate 450***
Bass Whammy (5th up to Octave up harmony) on Whammy 4 - with sweep between intervals.

***opiate 550***
Bass Whammy (5th up to Octave up harmony) on Whammy 5 - with sweep between intervals.

***opiate d50***
Bass Whammy (5th up to Octave up harmony) on Whammy DT - with sweep between intervals.

***cycle path O4***
Cycle through Whammy 4 settings with effect OFF and reverse with 2 second hold

***cycle path I4***
Cycle through Whammy 4 settings with effect ON and reverse with 2 second hold

***cycle path O5***
Cycle through Whammy 5 settings with effect OFF and reverse with 2 second hold

***cycle path I5***
Cycle through Whammy 5 settings with effect ON and reverse with 2 second hold

***cycle path Od***
Cycle through Whammy DT settings with effect OFF and reverse with 2 second hold

***cycle path Id***
Cycle through Whammy DT settings with effect ON and reverse with 2 second hold

***drop kick Od***
Cycle through Whammy DT Drop Tune intervals with effect OFF and reverse with 2 second hold

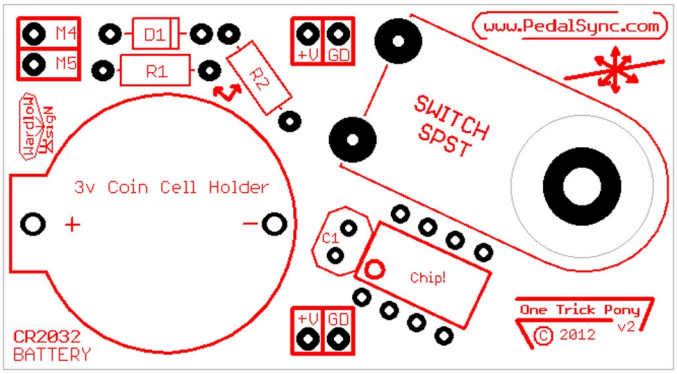
***drop kick Id***
Cycle through Whammy DT Drop Tune intervals with effect ON and reverse with 2 second hold

***Dual Use devices*** - Built to order. Let us know what 2 devices you want in a single enclosure.

> *Note:* ***All One Trick Pony Whammy devices send data on MIDI Channel 15****. If your Whammy is on any channel besides 15 or OMNI, please refer to that Whammy's manual for instructions on changing the MIDI channel.*

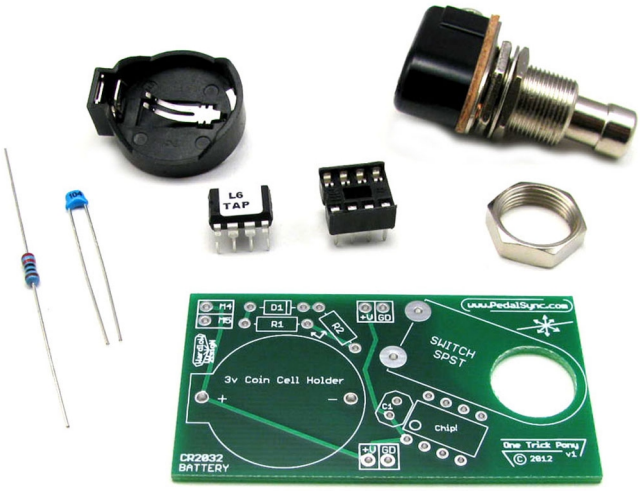
If you have a request for a custom controller *and know the MIDI data you need sent*, email us at info@PedalSync.com for a price.

## Building The Module

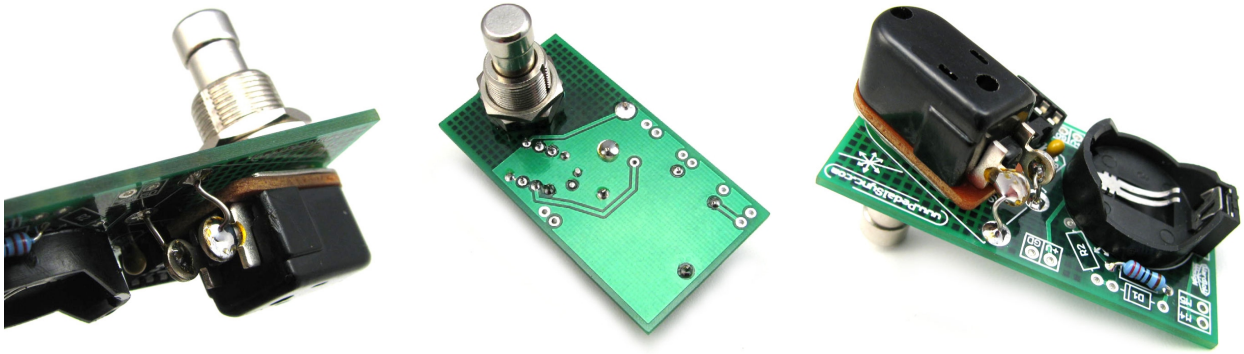



The One Trick Pony module kit uses the following parts:

| Label | Part |
|---|---|
| C1 | 0.1uF Ceramic Capacitor |
| SWITCH SPST | Momentary Footswitch and double-thick nut |
| 3v Coin Cell Holder | 3v Coin Cell Holder (battery not included) |
| Chip! | 8-pin chip in 8-pin socket |
| R1 | 220 ohm Resistor (red, red, black, black, brown) |
| R2 | 220 ohm Resistor (red, red, black, black, brown) (used only for daisy chain applications) |
| D1 | 1N4148 small signal diode (not included and used only for daisy chain applications) |




Two 0.5” wires must first be soldered through the circuit board so that they extend far enough to attach to the switch. Before inserting the wires, bend the top over so they do not slip through the holes, solder in place, then clip the excess wire from the bottom of the circuit board.



The Momentary Footswitch is then attached to the circuit board by removing all nuts and washers and placing the shaft through the hole, aligning the switch to the circuit board graphic.

Place the double-thick nut onto the switch and tighten. Then place one of the thinner nuts on and tighten it as well. This provides the proper spacing between the circuit board and the enclosure.

Bend the wires through the lugs on the switch and solder in place, *making sure the wires do not touch each other*.

Align the coin cell holder with the circuit board graphic and solder in place.

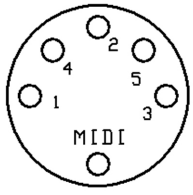
Align the 8-pin chip socket with the circuit board graphic, noting the notch position, and solder in place. Insert the chip so that it is similarly aligned. Solder the resistor and capacitor in place.

## External Connections


Connect header pad M4 to Pin 4 of the MIDI Jack.

Connect header pad M5 to Pin 5 of the MIDI Jack.

Insert a CR2032 3-volt coin cell (not included) ***with the positive side up***.




MIDI JACK
Looking from outside

## Daisy Chaining 2 or More Modules

The One Trick Pony module provides external power connection headers allowing multiple modules to run off a single power supply. The +V and GD connections from different modules can be connected together **provided a single power source is used for all modules**.

*Note: the power source can be the battery off a **single** unit (since the batteries are connected to the +V and GD header pads), or an external, filtered and regulated 3.3 or 5-volt power supply.*

If multiple units are attached to the same MIDI Out jack, then use the alternate signal path on the circuit board, designated by D1 and R2. Solder the 220 ohm resistor into R2 instead of R1. Solder a 1N4148 signal diode (not included) into D1, noting the polarity.

## Replacing the Battery

To replace the battery, remove the 4 screws on the bottom of the unit with a Philips screwdriver, then gently push the metal tab that holds the battery in away from the battery. The battery should pop up.

Once the old battery is removed, place the new battery, **POSITIVE [+] SIDE UP**, into the unit by putting one edge of the battery under the black plastic lip that is away from the metal clip, then push the metal clip back away from the battery while pressing the battery into place until it snaps into place. If done properly, it takes little effort, so don't force it!

## Noise

Always use either a battery or filtered and regulated power with the PedalSync One Trick Pony module.

## Support

info@PedalSync.com

## DISCLAIMER

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