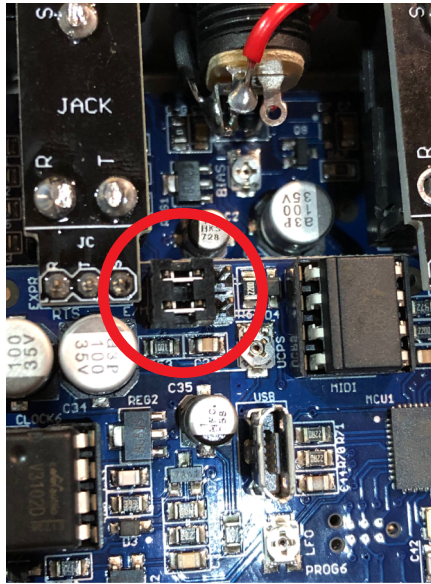


This pedal can be completely controlled with an external MIDI controller. Control Change messages can alter any control parameter and Program Change messages can access additional presets.

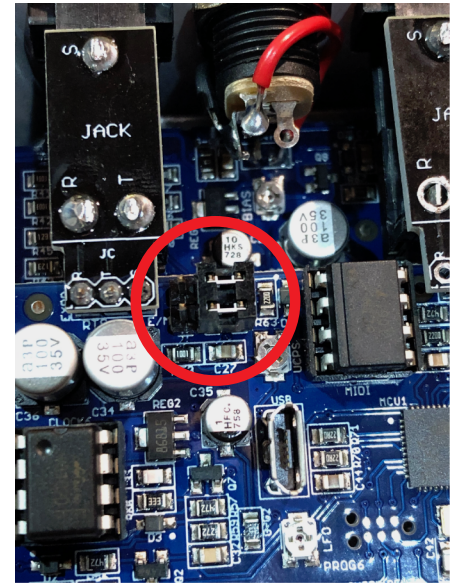
TO SET YOUR PEDAL UP FOR MIDI OPERATION:

1. HARDWARE:

An internal jumper needs to be changed to disconnect the TRS Expression Jack from the expression circuitry and connect it to the MIDI Input circuitry. This jumper is located on the elevated control circuit PCB, right next to the TRS Expression Jack connection. The jumper is labelled on the PCB as "E/M". The pedal is set up for EXPRESSION control if the jumper is on the LEFT two sets of pins. The pedal is set up for MIDI control if the jumper is on the RIGHT two sets of pins. **This must be set correctly or EXPRESSION / MIDI won't work.**



Set for Expression control



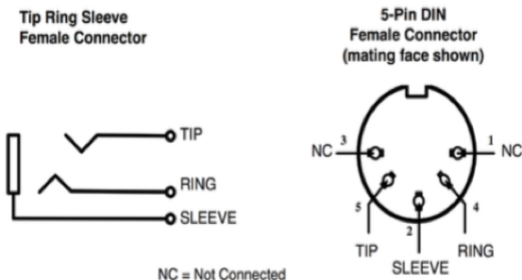
Set for MIDI control

2. SOFTWARE:

Power the pedal on while holding the TAP and BYPASS footswitches. Hold them both for a few seconds. Release them to begin operation in MIDI MODE.

3. CABLING:

This pedal receives MIDI commands over a 1/4" TRS connection. This connection is wired in accordance with the 5-Pin DIN to TRS MIDI wiring protocol established by the MIDI Association.



The EASIEST way to plug this pedal up to other midi devices would be to use our custom (and super pedalboard friendly) MIDI cable available in our store. These are built and provided to us by SINASOID for a great quality cable. They have the 1/4" TRS jack on one end for this pedal and a standard 5-Pin DIN connector on the other end to connect to other MIDI devices.

This pedal CAN be controlled via a simple TRS cable from other controllers that are equipped with TRS MIDI outputs. This is assuming the controller TRS MIDI output is wired in accordance with the MIDI Association standard. You will have to consult those product manuals / specifications on a product by product basis. Some cases may require a custom TRS cable with the TIP and RING connections swapped on ONE end.



SETTING THE MIDI INPUT CHANNEL:

- This pedal comes set to MIDI channel 1 by default. This can be changed on power up if needed. Simply follow the SOFTWARE instructions above for setting up MIDI mode. While you are holding the TAP and BYPASS footswitches on power up, the pedal is "listening" for incoming MIDI messages.
- If it receives a MIDI message while the footswitches are being held during this time, it will set the MIDI input channel to the channel of the last MIDI message it receives. You can then release the footswitches to begin normal operation. Your channel change will be retained until you change it again.

RECALLING PRESETS WITH MIDI:

- Presets on this pedal can be activated by sending MIDI Program Change messages. This pedal supports 50 presets in total. One onboard FAVORITE and 49 additional presets through MIDI.
- Program Change message 0 will put the pedal into "LIVE" mode and reflect the current state of all the knobs and switches as in normal operation.
- Program Change message 1 will activate the built-in / onboard FAVORITE preset that is typically accessed by holding the BYPASS footswitch.
- Program Change messages 2 – 50 will activate those particular presets. Assuming a preset has been saved to that location. No factory presets are provided other than the default preset saved in the FAVORITE location.

SAVING PRESETS WITH MIDI:

- To save additional presets with MIDI you simply send a MIDI Program Change message while you are holding down both the TAP and BYPASS footswitches. This setting will be saved to the location of the Program Change message you sent.

PROCEDURE:

1. Create a sound you would like to save.
2. Hold both the TAP and BYPASS footswitches to initiate saving.
3. While continuing to hold the TAP and BYPASS footswitches, send a Program Change message of 25 to this pedal.
4. The center LED will blink to indicate the save.
5. Now release the TAP and BYPASS footswitches and your new preset has been saved to location 25.

NOTE: If no MIDI Program Change message is received while the footswitches are held and then you release. The preset will be saved to the onboard FAVORITE preset.



CONTROL CHANGE MESSAGES:

Please see the table below on controlling this pedal with Control Change Messages.

PARAMETER	CC #	DESCRIPTION
BYPASS FOOTSWITCH	102	Sending a value of 127 turns the pedal on, sending a value of 0 turns the pedal off.
TAP FOOTSWITCH	93	Sending any value other than 0 simulates pressing the TAP switch via MIDI
SPEED DEPTH LEVEL	50 51 52	Sending a value 0 would be equivalent to the knob being completely counter clockwise, sending 127 is equivalent to fully clock-wise. All numbers in between correspond to knob positions in between those extremes.
DIVISION	59	Sending value 0 sets division for quarter, 1 for dotted eighth, 2 for eighth, 3 for triplet, and 4 for sixteenth.
PHASE SWITCH	61	Sending value 0 sets phase for out-of-phase / ping-pong, 1 for standard, and 2 for harmonic.
WAVEFORM	60	Sending value 0 sets waveform for sine, 1 for triangle, 2 for square, 3 for ramp up, 4 for ramp down, and 5 for stutter.

MIDI CLOCK:

MIDI Clock syncing is included in Firmware VER 3 and later.

MIDI Clock can be Enabled or Disabled as needed:

Power the pedal on while holding the TAP and BYPASS footswitches. Just like you normally would to configure the pedal for MIDI mode. If you move the center toggle switch anywhere other than the center position at this time then it'll set the pedal to IGNORE any incoming MIDI Clock. If you move the center toggle to the middle position then it'll set the pedal back to RESPOND to incoming MIDI Clock. The center LED will blink to acknowledge configuration changes (2 times for MIDI Clock ON, 3 times for MIDI Clock OFF). Release the two footswitches to accept any changes and begin normal operation.