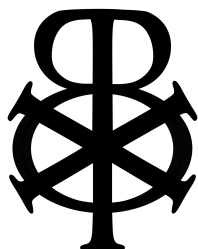


# **SYNCUSSION SY-1M**

## **MIDI REFERENCE**

**rev. 1.00**

**PSYCO X**

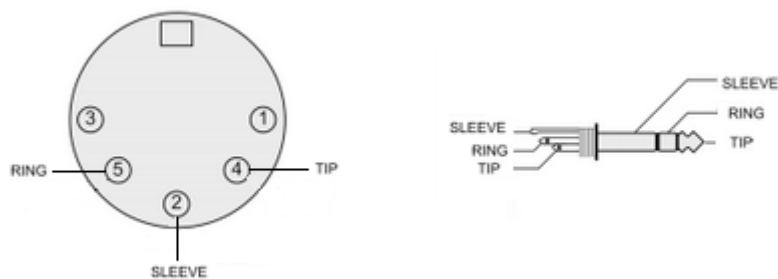


## **MIDI CONNECTION**

MIDI connection to the unit is via 3.5mm TRS.

If you are making up an adapter cable the wiring should be as follows;

<u>DIN</u>		<u>TRS</u>
4	>	Tip
5	>	Ring
2	>	Sleeve



(This wiring is the same as the adapters provided with the Arturia Beatstep)

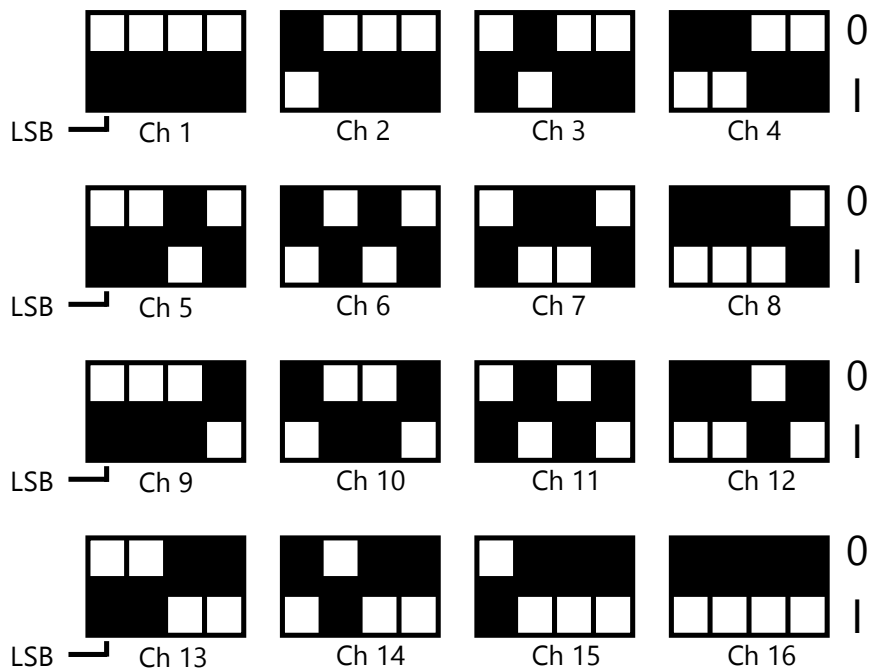
## SETTING THE MIDI RECEIVE CHANNELS

The MIDI receive channel is set on powering up the unit. To change MIDI channels you must power the unit down, set the MIDI channel via the DIP switches and power-up again.

In **MIDI Mode 1**, the DIP switches on the left side of the unit set the single MIDI receive channel for both SY-1M Channels.  
(See THE TWO MIDI MODES)

In **MIDI Mode 2**, the DIP switches set the MIDI receive channel for SY-1M Channel 1. Channel 2 always receives on the next highest MIDI channel **unless** SY-1M Channel 1 is set to receive on MIDI channel 16, in which case SY-1M Channel 2 will receive on MIDI channel 15.  
(See THE TWO MIDI MODES)

### MIDI CHANNEL SETTING QUICK REFERENCE



## THE TWO MIDI MODES

### MODE 1

In MIDI Mode 1, both channels of the SY-1M receive on the same, single MIDI channel.

Both SY-1M channels can be triggered independently and decay times for each SY-1M channel can also be controlled individually. There is no control of pitch in Mode 1.

Channel 1 of the Syncussion is triggered by MIDI note 36

Channel 2 of the Syncussion is triggered by MIDI note 38

Decay time for SY-1M channel 1 is via MIDI controller number 80

Decay time for SY-1M channel 2 is via MIDI controller number 81

For maximum control (widest range) of decay time via MIDI the “DECAY” sliders should be set to “5”.

### MODE 2

Mode 2 receives on 2 adjacent MIDI channels and allows independent control of Tune, Decay and triggering for each channel of the SY-1M.

REMEMBER ;The DIP switches on the left side of the unit always set the MIDI receive channel for SY-1M **Channel 1**. SY-1M Channel 2 always receives on the next highest MIDI channel **unless** SY-1M Channel 1 is set to receive on MIDI channel 16, in which case SY-1M Channel 2 will receive on MIDI channel 15.

The tuning range over MIDI is limited to 64 notes from MIDI note 21 to MIDI note 84. Notes received lower than MIDI note 21 will sound as MIDI note 21. Notes received higher than MIDI note 84 will sound as MIDI note 84.

## MODE 2 cont.

High notes take priority

Decay for each SY-1M channel is set via MIDI controller number 80 over its respective MIDI channel.

Again, for maximum control (widest range) of decay time via MIDI the "DECAY" sliders should be set to "5".

### **ZEROING THE DAC OUTPUTS IN MIDI MODE 2**

In MIDI Mode 2, the tuning of each channel is always relative to the last MIDI note received. For example; if SY-1M Channel 1 receives a high note and no more MIDI notes are received, adjusting the Channel 1 "TUNE" Slider to "0" will not pull the pitch all the way down to its lowest possible point. This is because the DAC is still putting up to 5 volts into Channel 1 CV buss. To zero the DAC's output and regain the full range of the "TUNE" slider – switch the MIDI mode to MODE 1 and back to MODE 2. (ie. The DAC outputs are always zeroed when switching modes)