

# PERFECT THYMING

**1 INPUT GAIN**  
Set the input level using the input gain knob. The input signal then gets written to the tape by the write head. If the signal is too loud the red light (next to the knob) will light up indicating that the signal is being clipped (distorted).

**2 DELAY COARSE**  
Positions the main read head on the tape to pick up the sound some time after it got written. Use this to set the delay time. You can also SYNC the delay time to the TEMPO.

**3 DELAY FINE**  
Fine adjustment of the delay time (adds up to the DELAY COARSE) is especially handy when COARSE is at the lowest setting. Then you can adjust tiny tonal phase shifts to achieve flanging / chorus / phasing effects or to carve some Karplus Strong tones.

**4 TAPE SPEED**  
Sets the speed of the digital tape and therefore audio sample rate. When combined with delays moving this knob results in pitch shifting effects.  
*Tip: hold the FN button and tweak the TAPE SPEED knob to select whether the tape is more "analog" (light on) or "digital" (light off).*

**5 FEEDBACK**  
Takes some of the delayed signal and feeds it back into the write head. This results in decaying echoes or dense drones.  
*Tip: hold the FN button and tweak the FEEDBACK knob to select polarity of the feedback (light on = positive, light off = negative).*

**6 FILTER**  
Shapes the sound in the feedback loop and on the output. In the middle position it is deactivated, when turned to the left it cuts high frequencies (LP=lowpass), when turned to the right it cuts low frequencies (HP=highpass).

**7 SPACING**  
Positions 3 more read heads on the tape to morph through interesting configurations: from tonal to dense (early reflections) to rhythmical. Can also be SYNCed.

**8 LEVELS**  
Macro control of the volumes of the 3 extra heads and how much they mix into the feedback path.

**9 DRY/WET MIX**  
Mix between the original input and the processed signal.

**10 VOLUME**  
Simply adjusts the output volume. But do not forget to modulate it with the ROBOT!

**A ROBOTS=modulation**  
Each knob except INPUT GAIN has an independent modulation source called the ROBOT.

**1. ROBOT SELECT**  
To edit a robot, hold the ROBOT SELECT button and slightly move the knob of the parameter to modulate and make its light turn on.

**2. Now you can adjust the RATE (speed) and AMOUNT (depth) of the modulation.**

**3. To change the modulation type use: ROBOT SELECT + 1-8 BUTTONS to get different waveforms or select ENV (envelope follower = responds to the dynamics of an input signal) or EXT for the external CV jack.**

**4. Activate SYNC if you want to lock to the current tempo source. To change polarity of the modulation use: ROBOT SELECT + FREEZE / LINK / SYNC negative / bi-polar (positive). Use: ROBOT SELECT + SYNC to activate STEREO feature to modulate in opposite phase for the left and right channel.**

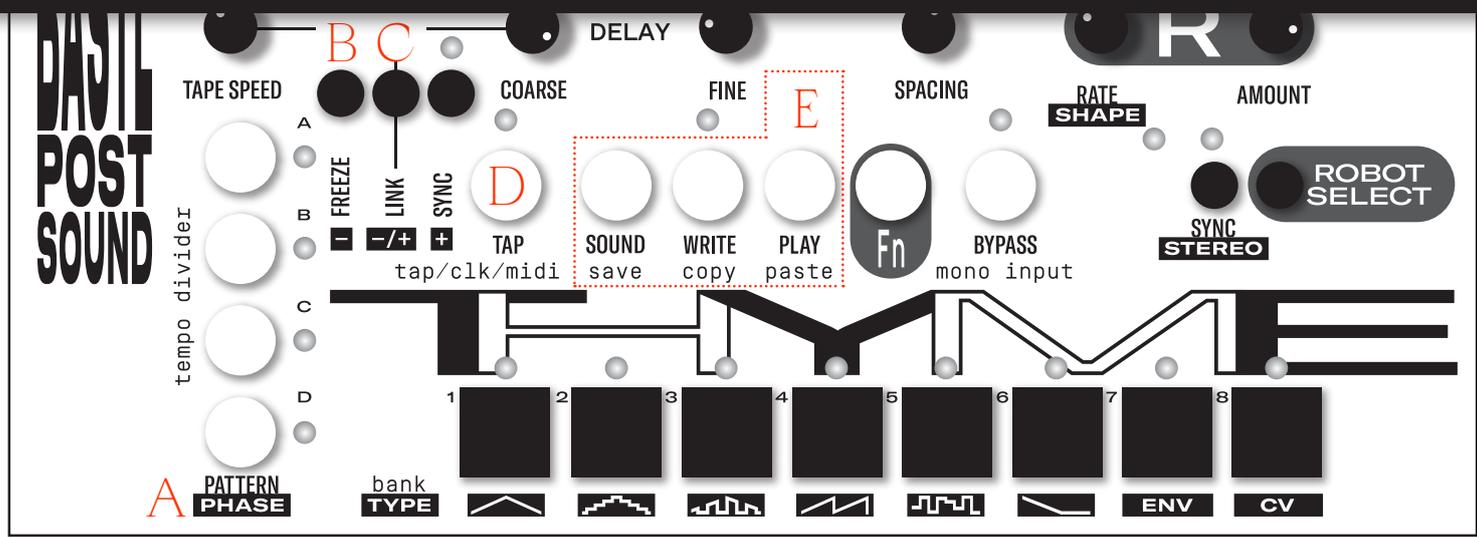
**B SELECT SOUND by 1-8 buttons**  
All the settings of the 9 parameters and the 9 robots are stored as one sound. There are 8 sounds to choose from by pressing 1-8 BUTTONS and 8 banks, each holding 8 sounds: hold FN and press one of the 1-8 BUTTONS to load a bank. FN + SOUND = save bank.

**C BYPASS SOUND**  
The BYPASS button is an alternative for the sound which just sends the input signal to the output. Tweaking knobs in BYPASS mode does not do much so you first need to select a sound by pressing one of the 1-8 BUTTONS to be able to tweak it.

**HOW TO SYNC**  
1. Select TEMPO Source by holding FN and pressing TAP to cycle through Tap Tempo, Analog Clock and MIDI Clock.

2. Then activate Sync for the Delay or the Robot.

**KNOB FREEZING**  
As soon as you change to a different sound, the lights at each knob will indicate the value for each parameter. To start tweaking the parameter, either move it quickly, or move it to the set value - which is indicated by the light - to pick up the value and change it further.



**A PATTERN**  
Use the 4 PATTERN buttons to change between different patterns.

**B FREEZE**  
= sample a short loop with length defined by the delay time

**C LINK**  
= changing the Tape Speed will not affect

delay time (because delay time is automatically adjusted)

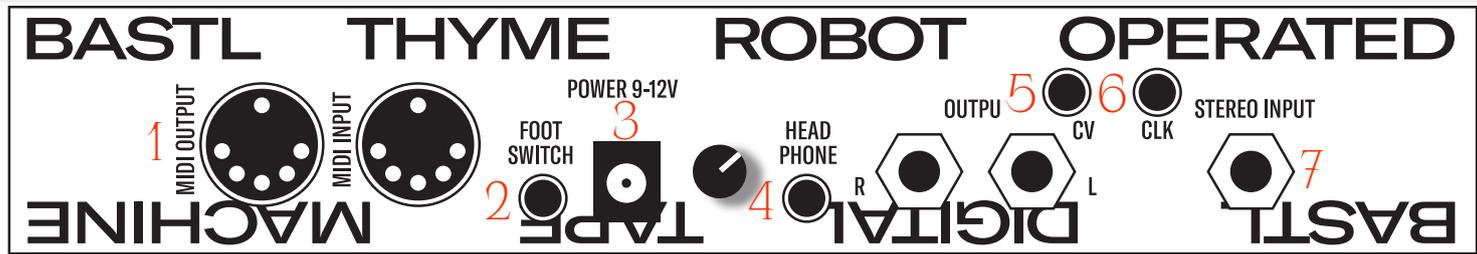
**D TEMPO**  
Tempo is the rhythmical basis that you can SYNC things to. It can have 3 different sources: either TAP Tempo - which is determined by tapping the TAP button - or Analog Clock or MIDI Clock. To select the source hold FN and press TAP to cycle through Tap Tempo, Analog Clock and MIDI Clock.

**E SEQUENCER**  
Use the sequencer to change the sounds in a stepped sequence. It has 2 modes: WRITE and LIVE.

**LIVE (WRITE light OFF):**  
To record a sequence hit the PLAY button (make sure WRITE mode is off - WRITE light off - by hitting the WRITE button). Hold down the WRITE button and press

the 1-8 BUTTONS or BYPASS to record the PATTERN. It's possible to partly overwrite a pattern.

**WRITE (WRITE light ON):**  
If in the WRITE mode, use the SOUND button in combination with 1-8 BUTTONS to select which sound you want to place in the sequence, release the buttons and then use the 1-8 BUTTONS to say which steps are active for this sound.



**1 MIDI**  
All parameters and all Robots of the THYME can be controlled by MIDI CC messages. The sequencer, Delay Coarse or Robots can be synced to the MIDI Clock. MIDI notes on selected MIDI channel set the Delay Fine to pitched value corresponding to the pitch of the MIDI note. MIDI input can also be used for firmware updates.

To set the MIDI input channel, hold one of the 1-8 BUTTONS while turning on the device to set channels to 1-8, or hold FN + 1-8 BUTTONS while startup to set the input channel to 9-16.

MIDI OUT acts mostly as a MIDI THRU, but it can also send MIDI Clock, Start and Stop if used in the TAP TEMPO mode. See the manual for full MIDI implementation table.

**2 FOOT SWITCH**  
Use the footswitch jack to emulate the behaviour of the BYPASS button with a pedal.

**3 POWER**  
Plug in the power adaptor (provided) to turn the THYME on. You can also use other power adaptors if they comply to the indicated polarity and voltage. 9 Volts DC, Center positive, 2.1mm barrel.

**4 HEADPHONE**  
Headphone output can drive any headphones and has adjustable level control knob next to it. It can be also used as alternative stereo line output.

**5 CV**  
Control Voltage input can read voltages from 0 to 5V. Use it to control any of the parameters with various amounts via the

EXT Robot on that parameter. For Tape Speed and Delay Fine the CV is scaled 1 volt per octave on full amount which means you can tune these parameters musically.

**6 CLOCK**  
Use an Analog clock to clock the sequencer or synchronise the Delay Coarse time or any of the Robots. Use FN+TAP to select analog clock as tempo source (2nd option).

**7 STEREO**  
Thyme has stereo input (stereo jack) and stereo output (separate Left and Right). To use a mono input signal for stereo processing activate the MONO INPUT mode: FN + BYPASS.

Stereo features are accessed by activating the STEREO mode (ROBOT SELECT+SYNC) of the Robot which will modulate the

parameter in opposite phase for LEFT and RIGHT channel.

**IT'S A SYNTH TOO !**  
You can use MIDI Notes to change pitch of the FINE DELAY time or control voltage together with the EXT CV ROBOT on that parameter (V/Oct mapping), so you can easily tune it with anything. This allows easy use as Karplus Strong or NO INPUT processor. Turn up the FEEDBACK and tweak the FILTER - yeah!

