

### Notes & Conventions

Welcome to my cheat sheet for the Teenage Engineering Pocket Operators

In order to maintain consistency between POs, I refer to the button directly below **Knob B** as **Func** and the button directly below **Func** as **Effect**.

The **Func** button actually has different names/functions between POs (described elsewhere in this guide). However, this button is always used for sync modes.

For additional info, including transmitting and receiving data for the PO-32 and PO-35, see the user guides.

#### Cheat Sheet Conventions

With **Write** mode enabled:

(SS) = Step Sequence Edit (with playback stopped)

(LR) = Live Record (with playback started)

### After inserting batteries...

Set Time Rotate **Knob A** for Hours. Rotate **Knob B** for Minutes. Press any key to confirm/exit.

Set Alarm Hold **Sound**, Press **Pattern**. Rotate **Knob A** for Hours (all the way left to disable). Rotate **Knob B** for Minutes. Press **1-16** to set pattern for alarm.

Set Volume Hold **BPM**, Press Button **1** (low) - **16** (high).

Stop Alarm Press any key.

Reset Time Remove & reinsert batteries.

Why do these things even have a clock & alarm? Weird.

### Sync Modes

Mode	Input	Output
SY0	Stereo	Stereo
SY1	Stereo	Mono/Sync
SY2	Sync	Stereo
SY3	Sync	Mono/Sync
SY4	Mono/Sync	Stereo
SY5	Mono/Sync	Mono/Sync

To toggle Sync Modes: Hold **Func**, Press **BPM**.

Typical setup: SY1 -> SY5 (multiple) -> SY4  
Set first & middle POs' volume to 9, last volume to 16.

Using an external mixer: SY1 -> SY3 (multiple) -> SY2

### Live Play

With Playback stopped...

Select Sound Hold **Sound**, Press **1-16**.

Play Sound Press **1-16**.

PO-14 sub  
PO-16 factory  
PO-28 robot

micro drum kit Sound **16**. This drum kit plays different sounds for different note values and has only one voice.

PO-28 robot

Toggle Octave With sound **1-7** or **9-15** selected, Press **Sound**.

PO-35 speak

tonic drum kit Sound **16**. Similar to the above micro drum kit.

### Feedback?

*"I hope this cheat sheet is helpful! Feel free to contact me with suggestions or comments."*

~Naenyn

### Creating Patterns

Copy Pattern Hold **Write**, Press **Pattern**, then **1-16** to copy active pattern to target pattern.

Clear Current Pattern Hold **Func**, Press **Pattern**.

Select Sound Hold **Sound**, Press **1-16**.

(SS) Toggle Write mode With Playback stopped, press **Write**.

(SS) Add a note Press **1-16**.

(SS) Set Note Value Hold Step **1-16**, Turn **Knob A**.

(SS) Set Note Length Hold Step **1-16**, Turn **Knob B**.

(LR) Add a note Hold **Write** and play notes **1-16**.

(LR) Parameter Locking Hold **Write**, Turn **Knob A** and/or **Knob B**.

(LR) Clear Parameter Locking Hold **Write**, Turn knobs once only.

(LR) Effects Hold **Effect**, Press **1-16**.

(LR) Clear Effects Hold **Effect** for length of pattern.

Note: Effects on the PO-2X also work in Live mode (Playback stopped). These effects can be toggled.

Note: Effects on the PO-33 and PO-35 work slightly different. Press **1-15** (PO-33) or **9-15** (PO-35) to activate. If **Write** is enabled, effect will be saved to the pattern. Hold **Effect**, Press **16** to clear.



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### Playback

First, press **Play!**

Play Hold **Pattern**, Press **1-16**.  
Pattern

Chain Hold **Pattern**, Press multiple **1-16** buttons in sequence.  
Patterns

Cycle Press **BPM** to cycle between  
BPM HipHop/80, Disco/120, Techno/140.

Set Hold **BPM**, Turn **Knob B** (60-240).  
BPM

Set Hold **BPM**, Turn **Knob A**.  
Swing

When using multiple POs synced together, press **Play** on "slave" POs to arm Playback. Press **Play** on "master" PO to start Playback on all armed POs.

### Device-Specific Keys

Device	Func	Effect
PO-12 rhythm	Func	FX
PO-14 sub	Key o-o	Style
PO-16 factory	Key o-o	Style
PO-20 arcade	Chord	FX
PO-24 office	Solo	FX
PO-28 robot	Glide	FX
PO-32 tonic	Accent	FX
PO-33 K.O!	Record	FX
PO-35 speak	Record	FX

### PO-1X Functions

PO-12 rhythm

(LR) Step Retrig Hold **1-16**, Press **BPM** multiple times to retrigger step 2, 3, 4, 6, or 8 times.

PO-14 sub  
PO-16 factory

(LR) Add Playstyles Hold **Func**, Press **1-16**.

### PO-1X Functions (cont)

(LR) Clear Playstyles Hold **Func** for length of pattern.

### PO-2X Functions

PO-20 arcade

(LR) Play Hold **Func**, Press **1-16** (up to 128 times).

Chord  
Chains

(LR) Drone Hold **Func**, Turn **Knob A** and/or **Knob B**.

(LR) Fade During playback, Hold **Effect**, Press **Play**.

Out

(LR) Step Retrig Hold **1-16**, Press **BPM** multiple times to retrigger step 2, 3, 4, 6, or 8 times.

PO-24 office

(LR) Step Retrig Hold **1-16**, Press **BPM** multiple times to retrigger step 2, 3, 4, 6, or 8 times.

Solo Play During playback, hold **Func**, Press **1-16** to solo that sound.

PO-28 robot

Auto Vibrato During playback, hold **Func**, Turn **Knobs A & B** (**A**: Depth (left = off), **B**: Rate).

Glide during live playing While playing notes, hold **Func** and play a note to glide up to that note. Hold **Func** and release a note to glide down.

### PO-2X Functions (cont)

Record With **Write** enabled, hold a lit step  
Glide **1-16**, Press **Func** to glide up on that step. Hold an unlit step **1-16**, Press **Func** to glide down.

### PO-3X Functions

PO-32 tonic

Accent during Playback Hold **Func**, Press **1-16**.

(SS) Accent step edit Select step **1-16**, Hold **Func**, Press **1-16**.

Receive Data (from uTonic) Hold **Func**, Press **Sound**.

PO-33 K.O!

Record Sound Hold **Func**, Hold **1-16**, speak in to mic or use line-in.

Note: You get 40 seconds of recording time total on the PO-33.

Delete Sound Hold **Func**, Press **Sound**.

Sound Tweak Press **Effect** to toggle **Knob A & B** between:

- pitch & volume

- high/low-pass filter & resonance

- start point & length of sound

Copy Sound Hold **Write**, Press **Sound**, Press **1-16** to copy current-selected sound to target sound.

Copy last-triggered slice Hold **Write**, Press **Sound**, Press **9-16**. Press **1-16**.

PO-35 speak



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### PO-3X Functions (cont)

Record Hold **Func**, Hold **1-15**, use mic or line-in.

Sound

Note: You get 8 seconds of recording time for each sound.

Sound Press **Effect** to toggle **Knob A & B** between:

Tweak

- pitch & formant

- start point & speed

Change Hold **Effect**, Press **1-8**. If **Write** is enabled, voice

Voice change is saved to pattern.

Transpose Hold **Pattern**, Turn **Knob A**.

Scale Hold **Pattern**, Turn **Knob B**.



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