Cheatography

Teenage Engineering Pocket Operators Cheat Sheet

by Bill Smith (Naenyn) via cheatography.com/21154/cs/14887/

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 Pattern	Hold **Pattern**, Press **1-16**.
Chain Patterns	Hold **Pattern**, Press multiple **1-16** buttons in sequence.
Cycle BPM	Press **BPM** to cycle between HipHop/80, Disco/120, Techno/140.
Set BPM	Hold **BPM**, Turn **Knob B** (60-240).
Set Swing	Hold **BPM**, Turn **Knob A**.

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	Funct	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 retrig 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 Chord Chains	Hold **Func**, Press **1-16** (up to 128 times).
(LR) Drone	Hold **Func** , Turn **Knob A** and/or **Knob B**.
(LR) Fade Out	During playback, Hold **Effect**, Press **Play**.
(LR) Step Retrig	Hold **1-16**, Press **BPM** multiple times to retrig step 2, 3, 4, 6, or 8 times.

PO-24 office

(LR) Step Retrig	Hold **1-16**, Press **BPM** multiple times to retrig 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 Glide	With **Write** enabled, hold a lit step **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-trig-gered slice	Hold **Write**, Press **Sound**, Press **9-16**. Press **1-16**.

PO-35 speak

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PO-3X Functions (cont)	
Record Sound	Hold **Func**, Hold **1-15**, use mic or line-in.
Note: You get 8 seconds of recording time for each sound.	
Sound Tweak	Press **Effect** to toggle **Knob A & B** between:
	- pitch & formant
	- start point & speed
Change Voice	Hold **Effect**, Press **1-8**. If **Write** is enabled, voice change is saved to pattern.
Transpose	Hold **Pattern**, Turn **Knob A**.
Scale	Hold **Pattern**, Turn **Knob B**.

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