PO-16 factory overview

**Auto Power Off (A.P.O.)**
The unit auto powers off when no buttons are pressed for a while, only powering the display to show time.
Press sound + BPM to show battery status.

**Play / Rec Mode**
Indicates write mode is active.

**Sound**
To select sound, hold sound and press 1-16.

**Alarm**
To select pattern, hold pattern and press 1-16.

**BPM**
Press to select tempo.
Hold to set master volume 1-16.
M + knob B adjusts tempo.

**Pattern**
To select pattern, hold pattern and press 1-16.

**Micro Drum**
Sound key 16 is a micro drum machine.

**Sound Parameters A / B**

1. A parameter 1
2. A parameter 2
3. A note pitch
4. A length

**Effect Styles**
To use effect styles, hold style and press 1-16.

1. Stutter 3
2. Stutter 8
3. Repeat 8
4. Repeat 6
5. Note Shuffle
6. Feedback
7. Micro Drum Machine
8. Sound 16
9. Micro Drum Machine
10. Sound 15
11. Effect 15
12. Effect 16

**Effect 1-16**

1. Low Sample Rate
2. Distortion
3. Bit Crush
4. Delay
5. Lowpass Filter
6. Lowpass Sweep
7. Hipass Filter
8. Hipass Sweep
9. Stutter 3
10. Stutter 8
11. Repeat 8
12. Repeat 6
13. Note Shuffle
14. Feedback
15. Parameter LFO
16. Vibrato

**Sound 1-15**
Assorted lead synthesis ranging from FM, subtractive synthesis, wavetable to physical modeled string.

**Sound 16**
Micro drum machine with 16 sampled sounds.
In write mode, set sound by holding any step and turn knob A. n 1-16 will be displayed in the upper right corner of the screen to indicate selected sound.

**Micro Drum Machine**
Sound key 16 is a micro drum machine.
1. getting started

**power-up**
insert two fresh AAA batteries.
pay attention to plus and minus poles.

**set clock**
set time by turning knob A for hours and knob B for minutes.
pres any key to confirm and exit.

**alarm clock**
press sound + pattern. set alarm clock by turning A for hours and B for minutes. (disable by turning knob A all the way down.) press any key 1-16 to set pattern for the alarm. to stop alarm press any key.

**reset clock**
reset the clock by removing the batteries and start over.

2. play

**select pattern**
hold pattern and press any key from 1-16 to select pattern.
blanking led indicates active pattern.

**play**
press play to start playing.
press play again to stop.

**sequencer**
a pattern consists of 16 steps.

3. creating a pattern

**select sound**
hold sound and press any key from 1-16 to select sound.
sound + 16 activates micro drum.

**create**
press write.
rec symbol is lit on screen.
enter sound/notes in grid.
active steps will be lit.
press play to listen to your pattern.

**set note**
while write mode is active, hold a lit step and turn A to set note value.

**set length**
while write mode is active, hold a lit step and turn B to set note length.

4. tweak the sound

**adding effects**
while playing, hold style and press any key 1-16 to punch-in effects.
hold style without pressing any key to clear effects.

see reference on opposite page.

**parameter locking**
hold write while turning knobs to write sound parameter changes over time.

5. tempo

press bpm to switch tempo. the bpm will be displayed in the upper right corner of the screen.
HIP HOP (80 bpm)
DISCO (120 bpm)
TECHNO (140 bpm)
hold bpm and turn B to fine-tune tempo (from 60 to 240 bpm).

6. volume

hold bpm and press any key 1-16 to adjust master volume.

7. live record

while playing, hold write and press any key 1-16 to punch in notes.
notes will be quantized along with tempo setting. release write when finished.

8. play styles

add playstyles
while playing, hold keyoo and press any key 1-16 to punch in playstyles, such as chords, arpeggios and transpositions.
release write when finished. hold key oo without pressing any key to clear playstyles.

9. making a song

(pattern chaining)

**copy pattern**
hold write + pattern and press 1-16 to paste the active pattern to the corresponding new slot.

**clear pattern**
press keyoo + pattern to clear the active pattern.

**chain pattern**
press and hold pattern and select which patterns 1-16 to chain by pressing the corresponding key 1-16. up to 16 patterns can be chained. one pattern can be selected multiple times. example 1,1,1,4 plays pattern 1 three times then moves on to pattern 4. after last pattern is played the sequence will start over again.

10. sync multiple units

it is possible to sync multiple pocket operators with its click track using line in and out. connect a standard stereo audio cable between the units. the master unit will control the tempo of the slave unit.
hold keyoo and press bpm on master unit to toggle sync modes. press repeatedly to toggle between different modes displayed in the upper right corner of the screen. press play on slave unit to wait for master clock sync. press play on master to start.

**sync modes**
there are 5 sync modes. default mode is SY0. when sync is used the signal will be split between audio (right) and sync (left).

**sync scenarios**

**example A**
chain: PO-12 → PO-14 → PO-16
setting: SY1 → SY5 → SY4

**example B**
chain: external → PO-12
setting: volca → SY2
iphone
computer
synckontrol

**example C**
chain: ext. → PO-12 → PO-14
setting: SY3 → SY4

**example D**
chain: PO-12 → ext. (split cable)
setting: SY1

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