

po-16 plant

QUICK REFERENCE CHEATSHEET

pocket operator · teenage.engineering

HARDWARE CONTROLS

CONTROL	FUNCTION
keys 1-16	sounds / patterns / fx / steps / volume
knob A	param 1 / swing / hours (context)
knob B	param 2 / tempo / minutes (context)
sound	hold + key to select synth / drum
pattern	hold + key to select / chain
fx	hold + key to toggle effect
bpm	cycle presets; hold + knobs to fine-tune
write	enter write / record mode
key	hold + keys for play styles / chords
play/stop	start and stop sequencer

SOUND PARAMETERS

knob A	param 1 (pitch / tone / character)
knob B	param 2 (decay / color / texture)

per-step parameter locking supported

TEMPO

HIP HOP	DISCO	TECHNO
80	120	140

hold **bpm** + knob B = fine-tune (60-240 BPM)
 hold **bpm** + knob A = swing
 hold **bpm** + 1-16 = volume (caution >5 w/ headphones)

SOUNDS (HOLD SOUND + KEY)

SYNTH ENGINES (SOUNDS 1-15)

sounds 1-15 lead synthesis engines: FM, subtractive synthesis, wavetable, physical modeled string and variations

knob A set pitch / character per engine

knob B set decay / timbre per engine

15 distinct lead synth algorithms - each engine has unique tonal character shaped by knobs A and B

SOUND 16 - MICRO DRUM KIT

hold **sound** + 16 select drum kit mode

hold lit **step** + knob A selected drum (1-16 voices)

knob B decay / tone of selected drum

drum kit fills 16 drum/perc voices within a single pattern step

KEY - PLAY STYLES

hold **key** + 1-16 punch in chord / arpeggio / transposition

hold **key** (no press) clear current play style

key + **bpm** toggle sync mode (SY0-SY5)

hold **key** + knobs (write) parameter lock for play style

EFFECTS (HOLD FX + KEY)

1 Lo Sample Rate	2 Distortion	3 Bit Crush	4 Delay
5 LP Filter	6 LP Sweep	7 HP Filter	8 HP Sweep
9 Stutter 4	10 Stutter 3	11 Feedback	12 Param LFO
13 Octave Up	14 Octave Down	15 Half Note Up	16 Vibrato

hold **fx** alone = clear all effects
fx + **play** = fade out & stop
 some effects are mutually exclusive

SEQUENCER & RECORDING

BASICS

play/stop start / stop

write write mode (REC on LCD)

keys 1-16 (write) enter / remove steps

16 patterns each with 16 steps

WRITE MODE - PITCH & LENGTH

hold lit **step** + knob A set write pitch for that step

hold lit **step** + knob B set write length for that step

LIVE RECORD

hold **write** + key (punch) in live (quantized)

hold **write** + knobs (parameter) automate params over time

PARAMETER LOCK

hold **key** + knobs (write) lock A/B values to that step

PATTERNS & CHAINS

hold **ptn** + key select pattern

hold **ptn** + sequence chain up to 16 patterns

hold **write** + **ptn** + key copy pattern to slot

key + **ptn** clear active pattern

chain: press ptn then tap keys in order to queue patterns

po-16 plant

COMBOS · SYNC · SPECS

page 2 of 2

ALL BUTTON COMBINATIONS

COMBINATION	ACTION
hold sound +1-15	select synth lead sound (engine)
hold sound +16	select micro drum kit
hold ptn +1-16	select pattern
hold fx +1-16	toggle effect on/off
hold fx (no key)	clear all effects
fx + play	fade out and stop
press bpm	cycle presets (80 / 120 / 140)
hold bpm +knob B	fine-tune tempo (60-240 BPM)
hold bpm +knob A	adjust swing
hold bpm +1-16	set master volume (caution >5 w/ headphones)
press write	enter write / record mode
hold write +1-16 (playing)	live punch-in recording (quantized)
hold key+knobs (write mode)	parameter lock that step
hold write +knobs (playing)	automate param across timeline
hold lit step+knob A (write)	set note pitch for that step
hold lit step+knob B (write)	set note length for that step
hold key +1-16	punch in chord / arpeggio / transposition
hold key (no key press)	clear current play style
key + bpm	toggle sync mode (SY0-SY5)
hold ptn +sequence of keys	chain patterns (up to 16)
hold write + ptn +1-16	copy pattern to slot
key + ptn	clear active pattern
sound + bpm	check battery status
sound + write	power off (saves all data)
hold ptn + write at battery insert	factory reset
CLOCK & ALARM	
on startup	knob A = hours · knob B = minutes · any key to confirm
set alarm	hold sound + ptn → knobs for time → key to set pattern
disable alarm	turn knob A all the way down
reset clock	remove batteries and restart

SYNC & CONNECTIVITY

SYNC MODES — HOLD KEY + BPM TO TOGGLE

MODE	INPUT	OUTPUT
SY0	stereo	stereo (default)
SY1	stereo	mono + sync
SY2	sync	stereo
SY3	sync	mono + sync
SY4	mono + sync	stereo
SY5	mono + sync	mono + sync

3.5mm stereo cable · audio: right ch · sync: left ch · toggle with **key**+**bpm**

TWO-UNIT SETUP

master	SY1 or SY3 (sync out on left ch)
slave	SY2 or SY4 (sync in on left ch)

SPECS & POWER

sounds	15 synth lead engines + micro drum kit
effects	16
patterns	16 × 16 steps
max chain	16 patterns
BPM range	60-240 (presets: 80 / 120 / 140)
volume	16 levels (caution above 5 w/ headphones)
sync modes	6 (SY0-SY5)
power	2 × AAA batteries
auto power-off	5 min idle / 60 min w/ line-in

POWER CONTROLS

sound + write	manual power off (saves data)
sound + bpm	check battery status
any key	wake from sleep

same battery type only — do not mix · all data saves on power-off
factory reset: hold **ptn**+**write** while inserting batteries