

po-20 arcade

QUICK REFERENCE CHEATSHEET

pocket operator · teenage.engineering

HARDWARE CONTROLS		
CONTROL	FUNCTION	
keys 1-16	sounds / patterns / chords / fx / steps / volume	
knob A	param 1 / swing / drone (context)	
knob B	param 2 / tempo / sidechain (context)	
sound	hold + key to select sound	
pattern	hold + key to select / chain	
chord	hold + key to select / chain	
fx	hold + key to toggle effect	
bpm	cycle presets; hold + knobs	
write	enter write / record mode	
play/stop	start and stop sequencer	
SOUND PARAMETERS		
knob A	pitch (most sounds)	
knob B	waveform (most sounds)	
per-step parameter locking supported		
TEMPO		
HIP HOP 80	DISCO 120	TECHNO 140
hold bpm + knob B = fine (60-240 BPM)		
hold bpm + knob A = swing		
hold bpm + 1-16 = volume (max 16; caution above 5 with headphones)		

SOUNDS (HOLD SOUND + KEY)							
1 Bass	2 Bass Drum	3 Snare	4 Hi-Hat				
5 Tom	6 Blip	7 Hardsync	8 Noise FX				
9 Arpeggio	10 Melodic Arp	11 Falling Arp	12 Octave Arp				
13 Lead	14 Vibrato	15 Portamento	16 Echo				
CHORDS (HOLD CHORD + KEY)							
1 Dm	2 Em	3 Esus	4 E	5 F	6 G	7 C/G	8 E/G#
9 Am	10 C/A	11 Dm/A	12 D/A	13 A	14 B/A	15 C	16 D
hold chord + knobs = drone control							

EFFECTS (HOLD FX + KEY)			
1 Solo Chords	2 Solo Chords +Lead	3 Solo Drums	4 Solo Drums +Bass
5 LP Slow Sweep	6 LP Fast Sweep	7 Hipass Filter	8 Hipass Sweep
9 Fill-In	10 Fill-In Fast	11 Retrigger	12 Retrigger Fast
13 Glitch	14 Glitch Fast	15 Blinds	16 Rising Arp
hold fx alone = clear all effects			
fx + play = fade out & stop			
solo 1-4: active while stopped			
fill / retrigger / glitch: until next pattern boundary			
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
LIVE RECORD	
hold write + key (playing)	punch in live (quantized)
hold write + knobs (playing)	automate params
PARAMETER LOCK	
hold key + knobs (write)	lock values to step
STEP MULTIPLIER	
hold key + bpm	retrigger on step
press bpm again	2x · 4x · 8x · 16x
PATTERNS & CHAINS	
hold ptn + key	select pattern
hold ptn + sequence	chain up to 128
hold write + ptn + key	copy pattern to slot
chord + ptn	clear active pattern
hold chord + sequence	chain chords (up to 128)
chain: 1,1,1,4 → pattern 1 × 3 then pattern 4	

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COMBOS · SYNC · SPECS

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ALL BUTTON COMBINATIONS

COMBINATION	ACTION
hold sound +1-16	select sound
hold ptn +1-16	select pattern
hold chord +1-16	select chord
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 (1-16)
press write	enter write / record mode
hold write +1-16 (playing)	live punch-in recording
hold key+knobs (write)	parameter lock that step
hold write +knobs (playing)	automate param across timeline
hold key+ bpm (write)	insert step retrigger
hold ptn +sequence	chain patterns (song mode, 128 max)
hold chord +sequence	chain chords (128 max)
hold write + ptn +1-16	copy pattern to slot
chord + ptn	clear active pattern
hold chord +knobs	drone control
hold chord + bpm	toggle sync mode (SY0-SY5)
sound + bpm	check battery status
sound + write	power off (saves all data)
hold ptn + write at battery insert	factory reset

SYNC & CONNECTIVITY

SYNC MODES — HOLD CHORD + BPM TO CYCLE

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 · max 5Vpp

TWO-UNIT SETUP

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

CLOCK & ALARM

on startup	knob A = hours · knob B = minutes · any key to confirm
set alarm	hold sound + ptn → knobs for time → key for pattern
reset clock	remove batteries and restart

SPECS & POWER

patterns	16 × 16 steps
max chain	128 patterns / 128 chords
BPM range	60-240 (presets: 80 / 120 / 140)
volume	16 levels (caution above 5 w/ headphones)
sync modes	6 (SY0-SY5)
step multiplier	2× · 4× · 8× · 16×
sounds / fx / chords	16 each
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