

lúbadh

_travelers guide _for navigating time loops

2 decks · stereo link

10 min per loop, per deck

4 taps per deck

[**rec**] press [**rec**] hold [**shift**] = retrig/shift opp. = the other deck's button > then

♦ = **preset** / **mode only**

every control is per deck: left and right are identical

combos shown for one deck · mirror them for the other

amber = hold

01	transport	lbh_01
[rec]	record › press again to stop & play. press while playing = overdub	
[erase]	erase this deck's loop	
[shift]	jump back to start	
turn [speed]	speed & direction: center = stall, cw = forward to 4x, ccw = reverse to 4x	
[shift] + turn [speed]	knob is muted until release, then jumps straight to the new speed	
[link] up	right deck mirrors left · saves and loads stereo	
[shift]	adds a playhead at start (up to 4)	
♦ multi-tap presets		

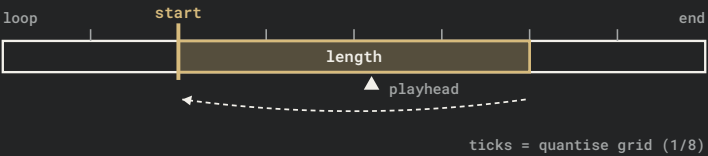
02	recording	lbh_02
[erase] + [rec]	punch-in : replaces audio while recording	
[shift] [shift] + [rec]	input monitoring : on (rec lit) › armed (rec pulses) › off	
armed [rec]	arm › record › stop & play · [erase] disarms, loop kept	
[shift] + opp. [rec]	looping ↔ one-shot record (records one pass, then stops)	
[rec] jack	trig starts / stops recording, like [rec] (latching)	
[rec] jack	gated : records only while the gate is high	
♦ rec jack = gated		
* overdub keeps the old layer at 0.9 by default, so layers faded a little each pass (dub level, 04).		



03	playback	lbh_03
[shift] + opp. [erase]	looping ↔ one-shot playback (rec blinks white / mixed)	
[shift] or [retrig] jack	one-shot: play one pass of start › length	
touch the reel	warble or stall the tape · trimmer sets sensitivity	
[speed] cv	±5 v, summed with the knob	
[erase] + opp. [erase]	flip playback direction · speed LEDs blink	
♦ v/oct speed mode only		
[speed] cv	tracks 1v/oct: sequence the loop's pitch	
♦ v/oct · seq presets		

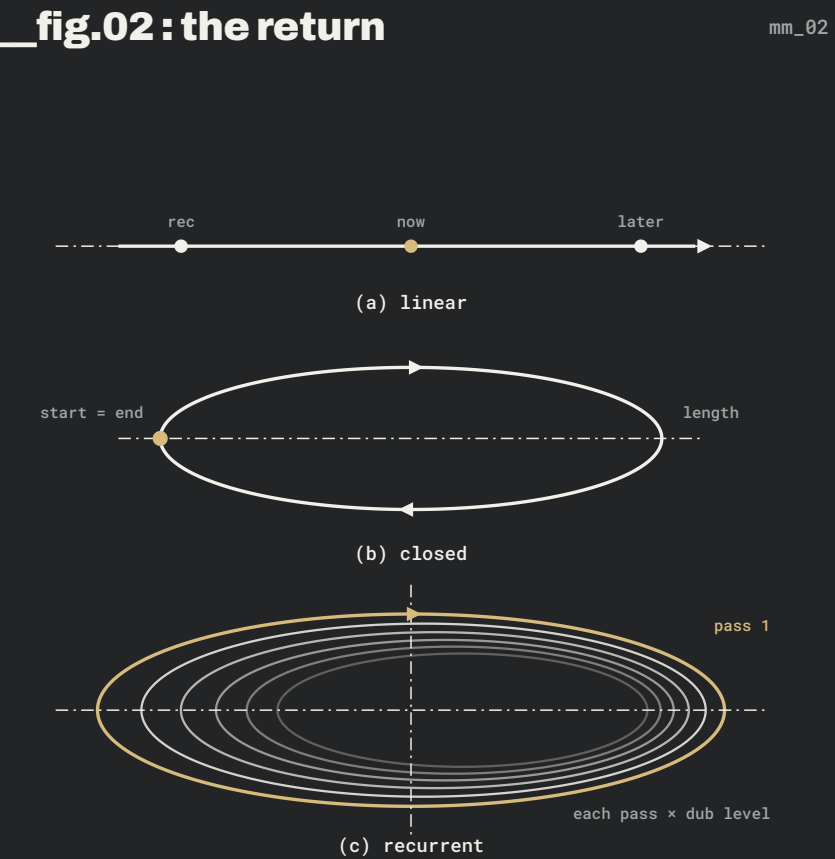
04	time knob	lbh_04
[shift] + [rec]	cycle the time function (amber LED by [clk out] shows which)	
LED off	clock divisions : triggers per loop at [clk out]: 1–12, 16, 24, 32, 64	
LED solid	dub level : how much old audio survives each overdub. high = delay feedback	
LED pulsing	user parameter : crossfade, tape or slew (preset picks)	

05	start · length	lbh_05
turn [start]	where the loop begins inside the recording	
turn [length]	how much plays before jumping back. tiny = wavetable-like tones	
[shift] + turn [time]	quantise start & length: lit LED sections = 1/2, 1/4, 1/8 ...	
[shift] + turn [start]	fine move that ignores the quantise grid (same for [length])	



06	save · load	lbh_06
[shift] [erase] + [rec]	save to usb › saved (folder 0, newest first)	
[shift] + [erase]	load menu	
in the menu	own [time] = loop · opposite [time] = folder · [rec] loads · hold [shift] previews 5 s · [erase] exits	
[link] up	saves and loads stereo (mono loads of stereo are summed)	
power-on	last session reloads automatically	

07	presets	lbh_07 · v2.1
[shift] [shift] + [erase]	preset menu for that deck	
turn [time]	pick 1 of 12 (shown on the LED ring) · [rec] loads · [erase] cancels	
usb › presets	.txt files, sorted 01–12. build your own with the preset editor	



08	multi-tap	lbh_08
♦ multi-tap presets only		
[shift]	new playhead from start	
[erase] + [shift]	delete the taps	
[erase] trig, cv exp.	removes taps remotely	

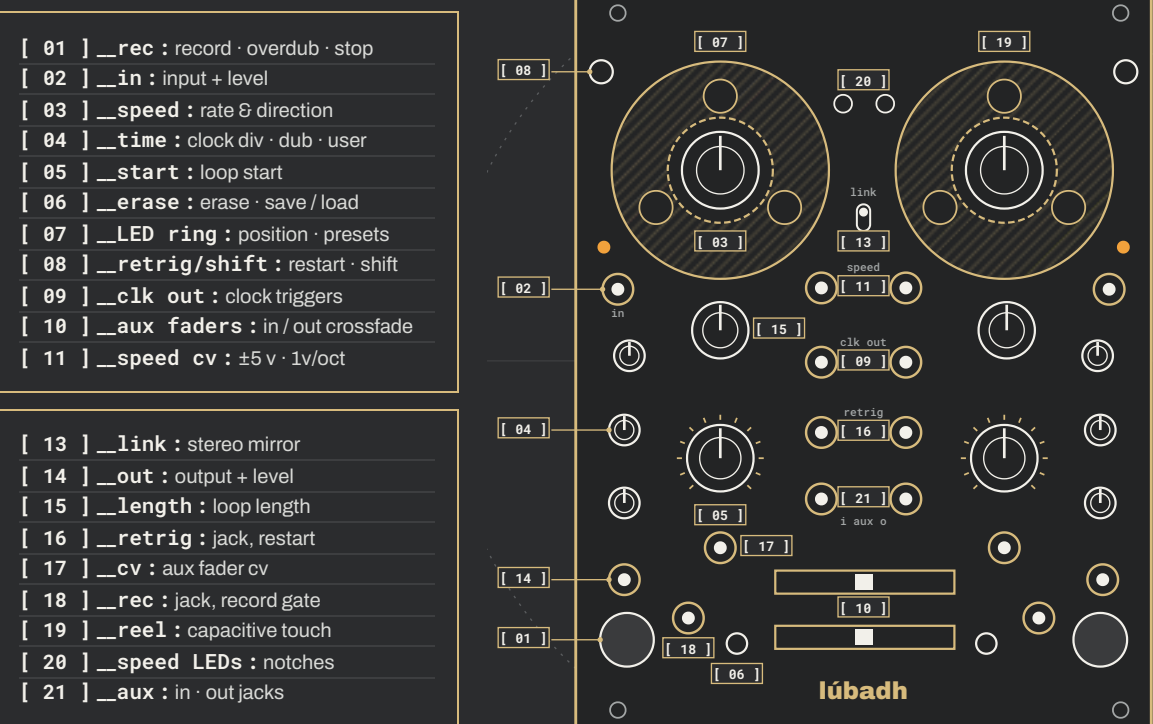
09	sync · clock	lbh_09
[clk out]	triggers per loop (set by clock div)	
[retrig] jack	resets the playhead to start: sync to an external clock	
[rec] jack	external clock sets the loop length	
♦ clockable preset		
[erase] + [rec]	tap tempo instead of punch-in	
♦ erase + rec = tap tempo		

10	aux · routing	lbh_10
aux in fader	sends [aux] in to the left ↔ right deck input (+ [cv] ±5 v)	
aux out fader	blends left ↔ right outputs at [aux] out (+ [cv] ±5 v)	
rear switch	aux out fader pre or post the output level, per deck	

11	reset · calibrate	lbh_11
[shift] [shift] + [rec] [rec]	reset modes to default · audio kept · speed LEDs pulse	
power on, hold [shift] ×2	calibration : speed knobs min, 0 v › [rec] each deck, then 1 v and 3 v; knobs max, no cv › [rec] = 5 v	
[erase] ×2		
amber blinks	voltage out of range: defaults used	

__fig.03 : front panel

left deck labelled · right deck mirrors it



_where things hide

preset files

usb › presets › .txt · [instruo preset editor](#)

- speed record variable · fixed, play follow · hold
- speed control notched · stepped · smooth · v/oct, markers 0–4
- multi-tap engine off · on
- time user crossfade · speed slew · tape emulation
- rec jack latching · gated · external clock
- ext clock average, resolution, timeout, divisions
- quantise all · even · odd · powers of two
- erase + rec punch-in · tap tempo
- timing min loop, crossfade, retrig delay, max dub
- tape wow / flutter, crinkle, age, hysteresis, wear, saturation, reverb
- input filter low cut freq + q, high out
- touch off · stall · dip

factory presets

ring = what the LED ring shows in the preset menu

- 01 tape looper · tape feel · varispeed rec
- 02 clean · crossfade on time · little tape
- 03 classic · v1 behaviour · fixed rec speed
- 04 multi-tape · multi-tap delay lines
- 05 clockable · sync to an external clock
- 06 octave delay · pitch-shifting delay line
- 07 seq mono · 1v/oct · retrig delay
- 08 seq poly · multi-tap 1v/oct · speed hold
- 09 melontron · 4-note mellotron chords
- 10 broken tape · maxed-out warble & grit