mimeophon _travelers guide _for copying time

8 zones	41.8 s longest repeat	1.3 ms shortest

› then noon = 12 o'clock tags = the panel drawing

stereo multi-zone colour audio repeater · karplus to flange to echo to 41 s loops · by tom erbe

01 what it is — mp_01

a repeater	stereo · from karplus and flange to chorus, echo and 41 s loops · no modes
always writing	input goes into every zone at once · bigger zones dig up older sound
everything talks	`repeats` `color` and `halo` share one feedback network

02 zones — mp_02 · fig.01

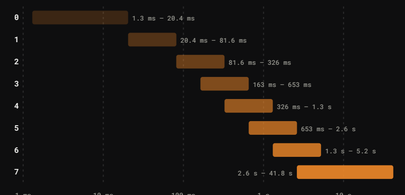
0 – 1	microsound: stutter, flange, karplus-strong, distortion · 1.3 – 82 ms
2 – 4	delay and echo · 82 ms – 1.3 s
5 – 7	phrases and loops · up to 41.8 s in zone 7
switching	no pitch swoop · neighbours overlap 50 % and stay in time

__fig.01 : zones — zone knob



every zone records at once · smaller zones nest inside bigger ones

__fig.04 : rate per zone — manual p.11 · log time



zones 2 – 7 overlap their neighbours by half · switching stays in time

__fig.07 : input gain — flip + hold



mix fully dry · hold flip + hold to cycle · release to keep

boosting can clip modular-level signals · unity suits most

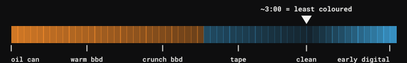
03 rate · skew — mp_03

`rate`	repeat size inside the zone · smooth, with doppler when repeats are up
`[ skew ]`	lit: `rate` pushes L and R apart · press again: locks the spread
clear skew	turn skew on then off with rate unmodulated
`[ skew ]`	not skewed = ping pong (inputs summed) · skewed = swap L/R feedback · window flashes
`µ`	doppler only · same small range in every zone · 1 V/oct in zone 0

04 repeats · color · halo — mp_04

`repeats`	1 to beyond ∞ · with hold on it picks the start point
`color`	oil can → bbd → tape → clean → early digital · ~3:00 = most neutral
`halo`	smears repeats in stereo · high settings feed back into the repeats
`mix`	live ↔ repeats · with mix cv patched it becomes the cv attenuator

__fig.05 : color — ccw → cw



11 µ rate · rate out — mp_11 · manual p.12 – 14

`µ` zones 1 – 7	linear doppler · follows skew (right side inverted)
`µ` zone 0	1 V/oct · ignores skew · karplus pitch
`rate out`	pulses at the rate · L and R OR'd when skewed · 8 V
very fast	zone 0 and part of 1: rate out just stays high
`tempo`	0.25 – 50 Hz · two pulses set it · holds until rate moves

09 first flight — mp_09 · first echo

1. audio into `L[M]` · both outs to the mixer
2. `zone` to 3 · `mix` 11:00
3. `repeats` noon · `color` 3:00
4. turn `rate` to hear the doppler
5. clock into `tempo` for clean ratios
6. press `[ skew ]` and turn `rate`

05 tempo — mp_05 · fig.02

`tempo`	clock in (0.25 – 50 Hz) · rate snaps to ratios, no doppler
1/1	rate ~12:30 · ccw up to ×2 · cw down to /2 · zones ×/÷ by 2
tap	two pulses set it · holds until you move rate
`rate out`	pulses at the current rate · both sides when skewed

__fig.02 : tempo ratios — clock in tempo



change zone to ×/÷ these by powers of 2 · skew = two ratios at once

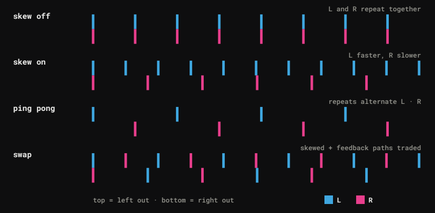
06 hold · flip — mp_06 · buttons + gates

`[ hold ]`	nothing in or out · everything else still moves it · non-destructive
`[ flip ]`	repeats backwards · zones 0 – 1 = "total protonic reversal"
gates	`hold` and `flip` jacks toggle on 2.5 V

12 ping pong · swap — mp_12 · hold skew

`[ skew ]` not skewed	ping pong: inputs summed to mono, repeats bounce L ↔ R
`[ skew ]` skewed	swap: L and R feedback paths trade places
the window	flashes while ping pong or swap is on
`[ skew ]`	press again to turn either off

__fig.06 : skew · ping pong — repeats at L and R



07 hidden moves — mp_07

`[ flip ]` + `[ hold ]`	input gain, mix full dry: blue –3 · green 0 · orange +3 · red +6 dB
clear zones	`mix` and `repeats` fully ccw (fw mp70 +)
firmware	power-on window colours · mp86 = teal / red

10 patch ideas — mp_10 · manual

karplus string — zone 0
short envelope into L · pitch cv to µ · repeats ~1:00 sets decay

dub echo — zone 3 – 5
repeats noon, halo up, color full · ride repeats to max and back

back and forth — rate out › flip
repeats travel forward and backward on their own

filter-verb — zone 0
mix full cw, repeats + rate ccw · color = filter, halo = air

13 more patches — mp_13 · manual p.18 – 20

repeater eater — sequence zone
one sequencer on zone, another into the inputs · echoes, flange, karplus per step

octaviocho — zone 1 – 5
tri or sine of the same vco into µ · more repeats = octave-up fuzz

stereo chorus — zone 0 – 2 · skew
slow bipolar lfo, attenuated, into µ · color 3:00 · repeats up for shimmer

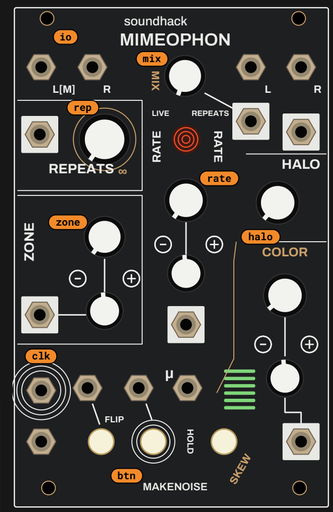
flip the script — zone 4 · flip
repeats ccw, mix cw · vocals come out reversed but keep their rhythm

(nil)zone∞ — empty input
mix cw, repeats max · stepped random on zone + rate, woggle on color

14 tips — mp_14 · manual p.17

the facsimile	play in small zones, hold, then visit zone 7 · repeats picks the vantage point
color builds up	color acts on every pass · modulation speed changes the result over time
zone 0 food	impulses, noise bursts, droning oscillators
dynamics	in zone 0, input level can excite or damp the repeats · shape transients
`[ flip ]` + `µ`	flip zone 0 or 1 while sequencing µ: drops it an octave

__fig.03 : the panel — numbers match the legend



- `io` **in** · **out** · stereo · L[M] feeds both
- `mix` **mix** · live ↔ repeats + cv
- `rep` **repeats** · 1 → ∞ · start point when held
- `zone` **zone** · 0 – 7 · window colour
- `rate` **rate** · `µ` · size in zone · doppler in
- `halo` **halo** · **color** · stereo smear · tone
- `btn` **flip** · **hold** · **skew** · reverse · freeze · …
- `clk` **tempo** · **rate out** · clock in · pulses out

08 specs — mp_08

size	16 hp
power	100 mA +12 V · 10 mA –12 V
cv	0 – 8 V · `µ` ±3 V · gates 2.5 V