

Mutable Instruments — Braids

• [Manual PDF](#)

[**Mutable Instruments Braids v1.8 Manual PDF**](https://mutable-in

Mutable Instruments Braids 1.8 – Cheat Sheet

A compact reference for **Mutable Instruments Braids** digital macro

Panel Overview

Label	Name	Function
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A	LED Display & Encoder	Shows model/settings. Rotate:
B	FINE	Fine frequency/coarse tune.
C	COARSE	Coarse frequency tuning.
D	FM Attenuverter	FM input amount (- to + polari
E	TIMBRE	Model-specific main timbre par
F	Timbre Attenuverter	CV depth/polarity for TIMBRE i
G	COLOR	Model-specific secondary param

Jack Reference

Jack	Function	CV Range
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TRIG	Trigger/reset for some models, excites percussive mo	
V/OCT	Classic 1V/oct pitch CV input	0–8V typi
FM	Frequency modulation input	±5V

	TIMBRE	CV input for timbre param	0V = min
	COLOR	CV input for color param	0V = min
	OUT	Audio output (model dependent amplitude)	N/A (audi

Synthesis Model Selection

- Rotate Encoder (A) to select model.
- Press Encoder to enter settings/options.

Common models:

- ****CSAW**** (Yamaha CS80 saw), notch via Timbre/Color
- ****/\|/_-_*** (morph: triangle→saw→square→pulse)
- ****FM, FBFM, WTFM**** (2-op phase modulation, feedback, wild)
- ****PLUK, BOWD, BLOW, FLUTE**** (physical. Models = need TRIG or GATE)
- ****WTBL, WMAP, WLIN, WTx4**** (Wavetable/two-dim. wave scan)
- ****DRUM, KICK, SNAR, CYMB, BELL, etc**** (808 & physical drum models)
- ****NOIS, TWNQ, CLKN**** (Noise, twin peaks, random sample/hold)

Key Controls (Summary)

****Frequency Controls:****

- B: FINE – fine tune
- C: COARSE – coarse tune

****Synthesis Parameters:****

- E: TIMBRE – model-specific (e.g., morph, index, cutoff, etc.)
- F: Timbre Attenuverter – CV depth/polarity for TIMBRE
- G: COLOR – model-specific (e.g., symmetry, feedback, etc.)

****FM Control:****

- D: FM Attenuverter – mod depth/polarity for FM input (±)

****Model/Option Selection:****

- A: Encoder
 - Rotate: browse
 - Click: enter, select, confirm
 - "WAVE" menu item: returns to model select

Voltage-Controlled Inputs

- **V/OCT** – Pitch (1V/oct standard, 0V is C0; transposable, quantized)
- **FM** – Frequency modulation (attenuverter D sets depth/polarity)
- **TIMBRE, COLOR** – CV (0V–+5V for full sweep; offset by panel knob)

Outputs

- **OUT** – Main audio output; signal level is model-dependent

Menu Options (access via encoder press)

- **META**: Model selection via FM CV (for sequencing through model select)
- **BITS, RATE**: Output bit-depth/sample rate
- **TSRC**: Select internal/external trigger/gate
- **TDLY**: Input trigger delay (for tracking fast CV/gate changes)
- **ATT, DEC**: Internal AD envelope settings (if used)
- **FM, TIM, COL, VCA**: Envelope routing amounts (to each param/amplifier)
- **RANG**: Tuning range (EXT, FREE, XTND, 440)
- **OCTV**: Octave shift
- **QNTZ, ROOT**: Pitch quantizer scale/root
- **FLAT, DRFT, SIGN**: Emulate analog tuning drift/imperfections
- **BRIG**: Screen brightness
- **CAL**: Calibration (see next section)

Calibration

1. Unplug FM input. Patch ****V/OCT**** input from a calibrated CV source.
2. Set FINE/COARSE to 12 o'clock.
3. Enter ****CAL.**** in menu, hold encoder 1s.
 - Display: ****>C2****. Send 1V, confirm.
 - Display: ****>C4****. Send 3V, confirm.
4. Done.

****TIP:**** Use alternate interval for shifting COARSE knob calibration

Firmware Update

- Audio file to FM input, power-on holding encoder, follow on-screen

Extras

- ****ADC Debug Page:**** Visualize incoming CV levels/polarities.
- ****Scrolling Text:**** Fun message display and editor.

****Reference Links****

- [Official Mutable Instruments Braids Manual](https://mutable-instruments.net/manual/)
- [Generated With Eurorack Processor](https://github.com/nstarke/eurorack-processor)

This cheat sheet contains all key operational info for fast reference, with jack voltages, button/knob summaries, and quick steps for synthesis/model changes, calibration, and firmware. For deep menu details refer to the full PDF above.