

Mutable Instruments – Braids

- [Manual PDF](#)

[**Mutable Instruments Braids v1.8 Manual PDF**] (https://mutable-instruments.de/manuals/braids_v1.8.pdf)

Mutable Instruments Braids 1.8 – Cheat Sheet

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

Panel Overview

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

Jack Reference

Jack	Function	CV Range
TRIG	Trigger/reset for some models, excites percussive mode	
V/OCT	Classic 1V/oct pitch CV input	0–8V typical
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 (audio)

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 (\pm)

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 knobs)

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)
- **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 instructions.

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.de/braids/manual.pdf>)
- [Generated With Eurorack Processor] (<https://github.com/nstarke/eurogen>)

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.