

# Bastl Instruments – ABC Mixer

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## Bastl Instruments ABC Mixer Cheat Sheet

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### Overview

- ABC is a compact 6-channel mixer for eurorack, primarily designed for audio mixing, but modifiable for mixing CV.
- It can function as two independent 3-channel mixers or as a single 6-channel mixer, depending on jack usage.

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### Inputs & Outputs Reference

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Label	Type	Function	Voltage Range
A–F	Input	Six AC-coupled audio inputs (can be modded for DC, see below)	Audio: $\pm 5V$ typical
A+B+C	Output	Mix of inputs A, B, C (if used, output is isolated from D+E+F)	Audio out
D+E+F	Output	Mix of inputs D, E, F, <b>PLUS</b> A+B+C if the A+B+C out is unused	Audio out

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## Front Panel Controls

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Control	Type	Function	Range
6x Gain Knobs	Knob	Individual input level A–F	0–1

*No buttons, sliders, or toggles on front panel.*

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## Key Usage Tips

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- **Dual Mixer Mode:** Use both A+B+C and D+E+F outputs for two separate 3-channel audio mixes.
- **Single Mixer Mode:** Leave A+B+C output *unplugged*; all six inputs mix at D+E+F output.
- **Maximum Gain:** Each channel's gain knob goes from 0 (off) to 1 (unity gain).
- **Stereo Use:** Use normalization jumpers on rear for quick stereo sets—A to D, B to E, C to F.

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## Customization (Back Panel)

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- **Solder Jumpers (6 jumpers):** Configure to bypass input capacitors, changing from AC to DC coupling. This enables CV mixing (mixes DC voltages).
- **Normalization Jumpers (3 jumpers):** A→D, B→E, C→F for stereo/linked setups.

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## Technical Specs

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- **Width:** 5 HP
- **Depth:** 35 mm (skiff friendly)
- **Power:** +12V (<10mA), -12V (~10mA)
- **Protection:** PTC fuse and diode

- **Coupling:** AC (unless modified for DC/CV)

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## Installation Notes

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- **Double check ribbon cable polarity!**
- **Red stripe = -12V rail**
- Only connect/disconnect power with your case powered off.

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## Links

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