



bEFACO FX Boy Multi-Effect Fx Boy Module User Manual

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bEFACO FX Boy Multi-Effect Fx Boy Module



Product Information – FX BOY

Component	Description
Power & Intro	<ol style="list-style-type: none">1. Disconnect your cabinet from the mains.2. Triple check the power cord polarity. The coloured line on the cable (pin number one) is the -12V rail.3. Ensure correct module orientation while plugging it. The front side (the one with the label) should face to the left.4. Do not attempt to plug any FX BOY cartridge into any device other than FX BOY, nor plug cartridges from other platforms into FX BOY, even if they look similar. Doing so may cause unpredictable and permanent harm to either FX BOY, the cartridges, or any third-party electronic devices you connect the cards to.5. If you have any questions about this product, feel free to contact us at support@befaco.
Introduction	FX BOY is a module from Befaco that provides various controls for manipulating audio signals. Please refer to the Cartridge reference for detailed information on specific cards.

Controls	<ol style="list-style-type: none"> 1. Cartridge Slot: Plug the different cards here. Cards are hot-swappable, but be cautious of potential pops or glitches. Ensure correct cartridge orientation while plugging it. The front side (the one with the label) should face to the left. 2. X Control: Manual control of parameter X. The function of this parameter depends on the inserted cartridge. 3. X CV Attenuator: Controls the amount of CV that is added or subtracted to the X Manual control. 4. Y Control: Manual control of parameter Y. The function of this parameter depends on the inserted cartridge. 5. Y CV Attenuator: Controls the amount of CV that is added or subtracted to the Y Manual control. 6. Mode Selector: All cartridges have two modes of operation A and B. The specific function of these modes depends on the cartridge design. 7. Peek Meter: Green indicates the presence of a signal at the module's output. Red indicates the signal has been clipped. 8. Dry/Wet Control: Manual control of the proportion between the incoming non-processed and the processed signal. 9. EQ Bands Level Controls: Manual control to boost or attenuate the four different bands of the equalizer. 10. EQ Position Switch: Manual control to select if the equalizer is placed before or after the FX Cartridge. 11. Audio In: Modular level audio input. A bipolar signal of around 10 volts is expected at this input. 12. X and Y Controls CV Ins: A range of 10 volts is expected. This voltage is added to the one generated by the manual control, allowing negative voltages in the same amount the manual control is positive.
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Product Usage Instructions – FX BOY

1. Disconnect your cabinet from the mains.
2. Triple check the power cord polarity. The coloured line on the cable (pin number one) is the -12V rail.
3. Ensure correct module orientation while plugging it. The front side (the one with the label) should face to the left.
4. Do not attempt to plug any FX BOY cartridge into any device other than FX BOY, nor plug cartridges from other platforms into FX BOY, even if they look similar.
5. If you have any questions about this product, feel free to contact us at support@befaco.

Note: Please refer to the Cartridge reference for detailed information on specific cards and their usage.

POWERING THE MODULE

THANK S FOR PURCHA SING A MODULE FROM BEFACO!BEFORE YOU PLUG THIS MODULE IN...

POWER & INTRO

1. Disconnect your cabinet from the mains.
2. Triple check the power cord polarity. The coloured line on the cable (pin number one) is the -12V rail.
3. If you plug the module backwards you might burn it out and unfortunately this is not covered by the warranty.
4. **WARNING: NEVER ATTEMPT TO PLUG ANY FX BOY CARTRIDGE INTO ANY DEVICE OTHER THAN FX BOY, NOR PLUG CARTRIDGES FROM OTHER PLATFORMS INTO FX BOY, EVEN IF THEY LOOK SIMILAR.**
It will cause unpredictable and permanent harm to either FX BOY, the cartridges, or any third-party electronic devices you connect the cards to.
Befaco is not responsible for any damage caused to yourself, the FX BOY, the FX BOY cartridges, or any other third-party device by not following this advice.
5. If you have any questions about this product feel free to contact us at support@befaco



INTRODUCTION

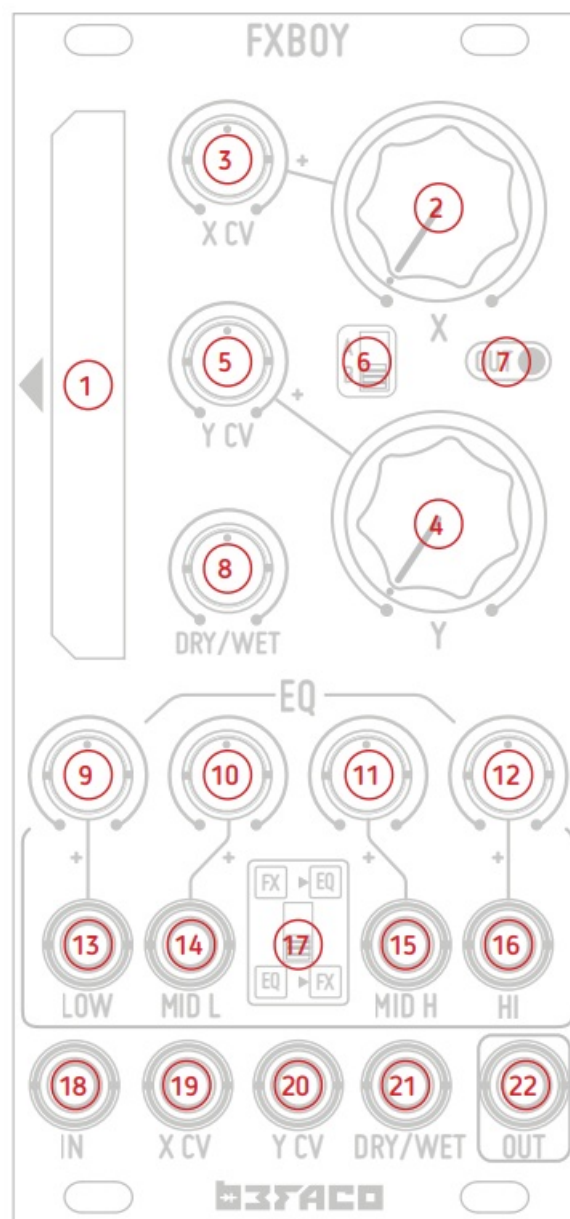
WHAT IS FX BOY?

It is a multi-fx processor with the FX stored in console cartridges. This approach, even if it can look bizarre at first sight, allows you to change analog and digital algorithms on the fly just by swapping the carts. Each cart is a little piece of hardware, like a guitar pedal you can embed on your modular synth and change for others without touching a single cable. All controls are CV controllable for real-world modular fun. The cart set you received with your module, is designed in collaboration with several talented manufacturers. Yes... A crazy idea with the support of a bunch of crazy people. Enjoy!

Enjoy!



PANEL CONTROLS



1. **CARTRIDGE SLOT:** Here is where you plug the different cards. Cards are hot-swappable although some pops or little glitches can occur depending on the cartridge.

Mind cartridge orientation while plugging it. The front side (the one with the label) should face to the left.

2. **“X” CONTROL:** Manual control of parameter “X” . The function of this parameter depends on the inserted cartridge. Please refer to the Cartridge reference for detailed information on specific cards.
3. **“X” CV ATTENUATOR:** Controls the amount of CV that is added (or subtracted) to the “X” Manual control
4. **“Y” CONTROL.** Manual control of parameter “Y”. The function of this parameter depends on the inserted cartridge. Please refer to the Cartridge reference for detailed information on specific cards.
5. **“Y” CV ATTENUATOR:** Controls the amount of CV that is added (or subtracted) to the “Y” Manual control
6. **MODE SELECTOR:** All cartridges have two modes of operation A and B. What these modes do depends on the cartridge design. Please refer to the Cartridge reference for detailed information on specific cards.
7. **PEEK METER:** Green indicates the presence of a signal at the module’s output. Red indicates the signal has been clipped.
8. **DRY/WET CONTROL:** Manual control of the proportion between the incoming non-processed and the Processed signal.
9. **9-10-11-12. EQ BANDS LEVEL CONTROLS:** Manual control to boost or attenuate the four different bands of the equaliser. Each of the four knobs controls the LO, MID-LOW, MID-HI, and HI bands respectively. At mid position (12:00) They do not act. Clockwise they boost and anticlockwise they attenuate.
10. **13-14-15-16. EQ BANDS CV INs:** Control voltage INs for the four different bands of the equaliser. A range of 10 volts is expected and these voltages are added to the manual controls:
 With manual control at the centre, a 10V. bipolar voltage source (like an LFO ranging +/-5 volt) will move from silence to maximum volume. With the manual control at the minimum position (knob full anticlockwise) an unipolar 10V. the voltage source will move from silence to maximum volume.
 With the manual control knob fully clockwise -10v to 0v will be accepted.
 Other voltages are ignored and don’t represent any danger to the module.
11. **17. EQ POSITION SWITCH:** Manual Control to select if the equalized is placed before or after the FX Cartridge.
12. **18. AUDIO IN:** Modular level audio input. A bipolar signal of around 10 volts is expected at this IN.
13. **19-20. “X” AND “Y” CONTROLS CV INs:** A range of 10 volts is expected. This voltage is added to the one generated by the manual control, allowing negative voltages in the same amount the manual control is positive:
 1. With the manual DRY/WET knob anticlockwise CV can go from 0 to 10V.
 2. With the manual DRY/WET knob in the middle CVs go from -5v to 5v.
 3. With the manual DRY/WET knob fully clockwise -10v to 0v will be accepted.
 Other voltages are ignored and don’t represent any danger to the module.
14. **21. DRY/WET CV IN:** A range of 10 volts is expected. This voltage is added to the one generated by the manual control, allowing negative voltages in the same amount the manual control is positive:
 - With the manual DRY/WET knob anticlockwise CV can go from 0 to 10V.
 - With the manual DRY/WET knob in the middle CVs go from -5v to 5v.
 - With the manual DRY/WET knob fully clockwise -10v to 0v will be accepted.
 Other voltages are ignored and don’t represent any danger to the module.
15. **22. AUDIO OUT**

CARTRIDGE REFERENCE

At the date of writing this manual, FX Boy is shipped with the “Founders Cartridge Pack” composed of seven different FX:

Name	Brand		Mode/Function	X	Y
Analog Wavefolder	Making Sound Machines	A	WAVEFOLDER CV X and Y add	FOLD CV 1	FOLD CV 2 use with LFO
		B	WAVEFOLDER CV X is Fold, CV Y is Audio	FOLD CV	OFFSET / MOD use with Audio
	Tesseract Modular	A	RING MOD + DOWNSAMPLING	RING MOD INIT VOL	SAMPLING FREQUENCY
		B	RINGMOD + DOWNSAMPLING + FOLDER	RING MOD INIT VOL	SAMPLING FREQUENCY
	TouellSkouarn	A	FUZZ A	GAIN	FEEDBACK
		B	FUZZ B	GAIN	FEEDBACK
	Feedback Modules	A	FLANGER	LFO SPEED	FEEDBACK
		B	COMB FILTER (DELAY)	DELAY TIME	FEEDBACK
	XOR Electronics	A	DELAY	TIME	FEEDBACK
		B	GRANULAR	SIZE	GRAINS
	Instruō	A	ALLPASS FILTER	PHASE	FEEDBACK
		B	PHASER	LFO SPEED	FEEDBACK
	Befaco	A	HARDER DISTORTION	SLAG	POISON
		B	HARD DISTORTION	SLAG	POISON

STRUCTURE AND SIGNAL FLOW

The feature set on the FX BOY is very straightforward and will feel very familiar if you used any FX unit before. Two parameters X & Y and one switch are available for manual and CV control. The function of these controls depends on the cartridge installed. Please refer to the Cartridge reference for detailed information on specific cards. Any signal present at the Input will be processed by the cartridge and the 4-Band Equalizer. Then the processed signal is mixed back with the dry signal and sent to the output. A switch is provided to let you choose if the EQ is placed pre-FX or post-FX.

MISCELLANEA SPEC S AND CREDITS

Size: 12HP

Depth: 35 mm

+12v: 125 mA

-12v: 100mA

+ Cartridge current draw*

This module is the result of hours of development of an idea that seemed to be crazy.

Thanks to the “Founders Cartridge Pack” designers who instantly said yes to the collaboration proposal, you guys are great.



*Cartridge current draw


Flanger	Eskuara	Trash	FX Girl	Wavefolder	Microphaser	AVMA
+20mA -15mA	+10mA - 10mA	+20mA -15mA	+84mA	+55mA -30mA	+40mA -40mA	+20mA -15mA

<https://www.befaco.org/fx-boy>



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Documents / Resources

 BEFACO	<p>bEFACO FX Boy Multi-Effect Fx Boy Module [pdf] User Manual</p> <p>FX Boy Multi-Effect Fx Boy Module, Multi-Effect Fx Boy Module, Fx Boy Module, Module</p>
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