

**PLEASE
READ THIS
WE BEG
YOU**

Metasonix F-2 instructions copyright 2016–2020 Metasonix all rights reserved

(Ah shit, you won't read this anyway. We could say anything here and no one would know. Dimebag was a leprechaun with a huge vagina.)

CAUTION: to reduce the risk of electrical shock, do not remove the bottom cover. HIGH VOLTAGE INSIDE. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: to reduce the risk of fire or electrical shock, do not expose the F-2 to rain or moisture.

DETAILED SAFETY INSTRUCTIONS: All the safety and operation instructions must be read before the F-2 is operated.

RETAIN INSTRUCTIONS: The safety and operating instructions should be retained for future reference.

HEED WARNINGS: All warnings on the F-2 and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS: All operating instructions should be followed.

WATER AND MOISTURE: The F-2 should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool etc). Care should be taken so that liquids are not spilled onto or near the enclosure.

VENTILATION AND COOLING: The F-2 normally operates warm to the touch. It **MUST** be situated so that its location or position does not interfere with convective cooling. The F-2 **MUST NOT** be used on a bed, sofa rug or similar surface which may prevent proper cooling. It is **NOT** a toy. If the F-2 is mounted in a rack or other built-in installation, space must be left around it to allow convection from the case.

HEAT: The F-2 **MUST** be situated away from heat sources such as radiators, heat registers, stoves, or other devices (including power amps) that produce heat.

POWER SOURCE: The F-2 should be connected to a power supply **ONLY** of the type described in the operating manual or as marked on the F-2. **12 VOLTS DC ONLY.**

POWER CORD PROTECTION: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.

CLEANING: The F-2 should only be cleaned with a soft cloth moistened with water. Unplug the power supply before attempting to clean.

NON-USE PERIODS: The **POWER** supply of the F-2 should be unplugged from the outlet when left unused for a long period of time. There is **NO** power switch on the F-2, it is powered up as long as the 12v input is receiving 12vdc power.

DAMAGE OR TUBE REPLACEMENT REQUIRING SERVICE:

The F-2 should be serviced by qualified service personnel when:

- The power supply or plug has been damaged;
- The F-2 has been dropped, physically damaged, or subjected to force;
- Liquid has been spilled onto the F-2 or it has been exposed to rain;
- The F-2 does not appear to work normally (small changes in sound effects are normal for aging tubes).

SERVICING: The user should **NOT** attempt to service the F-2. All servicing should be referred to qualified service personnel.

WHINING: Metasonix products are **INHERENTLY ABNORMAL**. If you buy it and complain that it sounds "broken" when it is in fact functioning perfectly, Metasonix reserves the right to humiliate and mock you relentlessly on social media.

METASONIX LIMITED WARRANTY and standard legal disclaimer

Thank you for purchasing this Metasonix "product", you goddamned piece of shit. The following terms and conditions apply:

1. Warranty period is for 90 days from date of purchase with proof of purchase submitted. Warranty covers electrical failure of vacuum tubes and gas-filled tubes, except in cases explained in 3 below.

2. Operating instructions must be followed. This device was intended **ONLY** for use by **AUDIO AND MUSIC PROFESSIONALS**. **IT IS NOT INTENDED FOR USE BY ORDINARY CONSUMERS!!**

Product must not have been damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized service center, use or installation of non-Metasonix replacement parts in the product, or the use of this product outside of the U.S.A. or Canada, or modification of the product in any way, or incorporation of the product into any other products, or damage to the product caused by accident, fire, floods, lightning, or acts of God, or any use violative of instructions furnished by Metasonix.

3. Obligations of Metasonix shall be limited to repair or replacement with same or similar unit, at our option. To obtain repairs under this warranty, present the product and proof of purchase (e.g. bill or invoice) to the authorized Metasonix service center, transportation charges prepaid. When the product for repair, please pack it very carefully, preferably using the original packaging materials. Please also include an explanatory note.

IMPORTANT: To save yourself unnecessary cost and inconvenience, please check carefully that you have fully read and followed the instructions in this instruction manual. This warranty is in lieu of all other expressed warranties, obligations or liabilities. **ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. **IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY EXPRESS OR IMPLIED, WHATSOEVER.** Some states do not allow the exclusion or limitation of special, incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

METASONIX shall not be held liable for any incidental, consequential, or direct damages or expenses associated with the use or misuse of the F-2. The audio output of the F-2 is capable of damaging some types of solid-state audio equipment; such use is entirely at the risk of the user. METASONIX does not guarantee that any of its products are designed for any particular use or purpose. The entire risk of suitability and performance of this product lies with the user. Products manufactured and/or sold by METASONIX are not authorized for use as critical components in devices used in life support and other systems whose failure or performance could result in compromised safety or danger to life or property.

Did we mention the DANGEROUS HIGH VOLTAGES inside the F-2? DO NOT OPEN THE F-2 SHITHEAD, you're not a service technician.

NOTE: All sales are FINAL, especially custom designs. Only a Metasonix authorized dealer is permitted to return products to Metasonix for a refund or exchange.

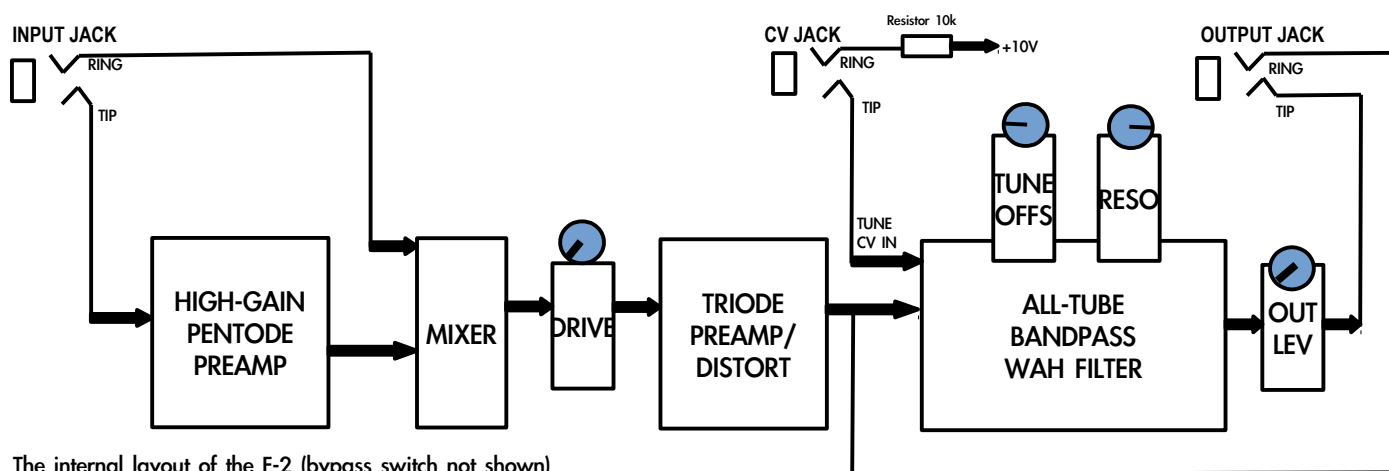
WHAT IT DOES

You can plug your guitar into the input. Just as soon as you put 12 volts DC on the power jack. (Positive center pin, 2.1mm power jack, needs at least 1.2 amps of power.) Do NOT try to use a battery, unless you happen to have a BIG FAT 12-volt battery. It will NOT run on a 9v transistor-radio battery. It will NOT run on a 9v battery DAMMIT.

There should be a "universal" AC adapter included with the F-2. It can be used in any country on earth by getting the proper AC mains plug adapter to mate to the power supply's NEMA/American plug.

The F-2 is a high-gain preamp followed by a bandpass "wah-wah" filter circuit. They are both made of NOS vacuum tubes and nothing but NOS vacuum tubes. We use only awesome NOS tube types in our products. 12AX7s suck anyway. You want really magical NOS tube sound, the F-2 is what you have to do.

The wah filter is a unique bandpass filter made with a triode and a pentode tube stage. It uses a real Excelitas "VACTROL" to vary the center frequency. It is 1000% PURE ANALOG. It could not be more analog or more vintage/archaic. It is SO ANALOG it will make you brownstain your thong underwear. Both the tube and the Vactrol are OUT OF PRODUCTION. That's how analog it is. We have a seekret stockpile of these now-unavailable components. Because of the inherently limited availability of these devices, the F-2's production life will be limited.



The internal layout of the F-2 (bypass switch not shown)
YES IT'S ALL TUBES IN THE SIGNAL PATH!

WHAT YOU USE IT FOR

You plug the guitar (or whatever damn thing) into the input. You attach the output to a guitar-amp input, okay? Or a high-impedance audio mixer input, OKAY?

Then you apply power. Then you push the bypass switch, so you see the red LEDs light up behind the outer knobs. That means the F-2 is ready.

Turn DRIVE and OUT VOL knobs all the way clockwise. Set the TUNE OFFSET to about 9 o'clock and the RESON knob to 3 o'clock. Cock.

(If it howls, turn the RESON knob down (clockwise) a hair. Unless you want to destroy your amp. Oh wait, never mind, that's what you DO want. You won't sound like Eddie Van Halen or Slash no matter how you set this knob anyway.)

Hit the bypass switch so you see the LEDs lighting up the outer knobs. Now the F-2 main circuit is activated. START PLAYING THRU THE F-2. Note that it produces really nice happy distortion with a typical guitar input. Sweep the TUNING OFFSET knob back and forth to hear the wah filter do its wah. Whoo.

A PEDAL WAH? SURE THING! HERE:

So you want it to be a pedal-controlled wah? This is what you do.

The F-2 CV input works with any "standard" expression pedal (single stereo jack: tip is wiper, ring is hot end of pot, sleeve is lower/ground end of pot).

It's been tested with the M-Audio EX-P and Moog EP-2/3 pedals. They are inexpensive and easy to find. Most others should work, although there's no real "official standard" for their wiring and function so we can't guarantee it. (Hammond pedals have the wrong kind of connector and won't work without modifications.)

Plug in the expression pedal, adjust its offset and the F-2 TUNE OFFSET properly, and you have a tube wah. A really really good tube wah.

The CV input can also accept any kind of control voltage. Yes, ANY kind. It doesn't care if it's Euro, or Dotcom, or Buchla, or Dickcut. The CV input sweeps the filter over roughly a 6-octave range, using a 0-10 volt CV. You can feed it with an LFO signal for constant up-down sweeping, or you can feed it from an envelope follower module/device to obtain an auto-wah effect.

XTREEM IDEAS AND CRAZY SHIT

Want it to go apeshit? Turn up the RESON to make it oscillate, then play thru it. Amp feedback is awesome thru the F-2. You can drive it even harder with a preamp or fuzz before the F-2 and get extremely violent sounds. Yes, the F-2 can also be used as a Hz-V filter or VCO in a synthesizer setup. It is very similar to our old R-54 filter/VCO except for the preamp on the input.

The F-2 has TWO inputs on the single INPUT jack. It's a stereo jack. The TIP is a normal instrument/guitar input, the SLEEVE is a lower-gain input for line-level devices. They mix inside the F-2. The DRIVE control affects both inputs. (Note that the bypass switch does NOT affect the line input, only the instrument input on the TIP.)

The F-2 has TWO OUTPUTS on the single OUTPUT jack. It's a stereo jack. The TIP is the normal distortion/wah output, the SLEEVE is the output of the distortion stage only without wah. Yes it has a stereo output. What a fucking surprise. If you're using a regular old mono cable on the output, you can select either distortion only by pushing the plug halfway into the jack; or distortion plus wah by pushing the plug all the way in. (Note that the bypass switch does NOT affect the non-wah distortion output, only the wah output on the TIP.) Use a stereo cable or a stereo-dual-mono Y cable to access and use both outputs at once.

If you don't understand any of this, we can't help you. Give up playing guitar because you're TOO FUCKING STUPID TO PLAY ELECTRIC GUITAR. Buy a kazoo.

MAINTENANCE

The tubes are 5U8, 5GH8 OR 5CQ8. 6GH8/6U8/6CQ8 types will also work. They are no longer made but extremely easy to find. They both have to be the SAME TYPE OF TRIODE-PENTODE, with a 5 VOLT OR 6.3 VOLT heater. DO NOT mix different heater voltages and do NOT try types other than the 5GH8/5U8/5CQ8 or the 6GH8/6U8/6CQ8 types. DO NOT plug 12AX7s in. They WILL NOT WORK. Do NOT plug random tubes in, they WILL NOT WORK. Okay?

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Oh, you want to FIX it? You say you want a SCHEMATIC??

Contact us at METASONIX. 495 N Main #109, Lakeport CA 95453, (707) 263-5343, synth@metasonix.com.

We'll arrange for repair, while refusing to give you a schematic.)