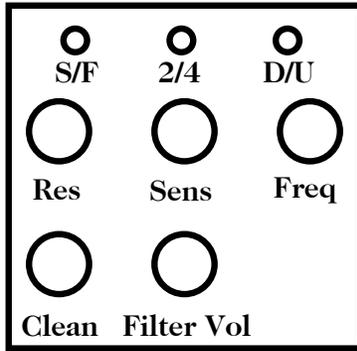
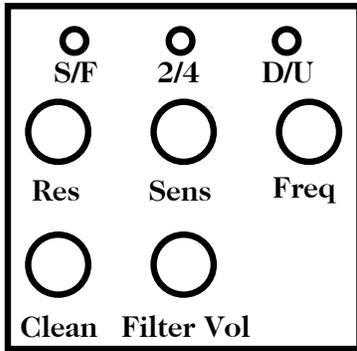
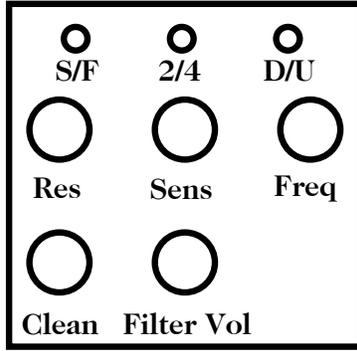
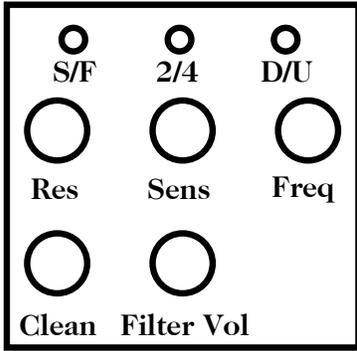


Settings templates

use these blank templates to write down
your favorite settings



Quick start/settings

Start with all switches to the right, and all knobs down all the way (counter-clockwise). Turn up the filter volume halfway, and begin turning up the Frequency knob slowly while playing. You will hear frequencies gradually becoming audible, from low to high.

Leaving Freq at about noon, begin turning up Sensitivity so that you can hear the filter sweep up and down with each note plucked on your instrument. Leave Sens at a spot that gives a medium sweep with your instrument's volume level, and begin turning up Resonance. You will hear how this emphasizes certain frequencies and makes the sound more synthy or "funky."

Switch S/F to slow mode and get a feel for how this reacts to your playing. The amplitudes of multiple notes in quick succession will be averaged out, so that instead of sweeping up and down with every note, the filter can be smoothly played up and down by playing notes closer together or more sparsely.

Iron Ether Xerograph Deluxe user's manual

The Xerograph Deluxe is a 4-pole resonant lowpass filter, with capabilities to sweep the cutoff frequency of the filter using the instrument's playing dynamics, an expression pedal, or both simultaneously.

Controls:

Frequency knob: This sets the base cutoff frequency of the filter. When using an expression pedal, this knob will set the minimum frequency from which the expression pedal will sweep (heel down position) - the maximum frequency (toe down position on the expression pedal) is set by the range limiter on the expression pedal itself.

When used as an envelope filter, this sets the base frequency from which the dynamics will sweep up or down.

S/F switch: Selects slow or fast envelopes.

2/4 switch: Selects between 2-pole and 4-pole modes. 2-pole is a more mellow, classic sounding filter with a wide, vocal-like resonance peak. 4-pole mode has a steeper cutoff and a sharper resonance peak.

Range and interactivity

The Xerograph Deluxe is designed to be a powerful, versatile tool for creating classic, modern, and unique sounds. The controls have a wider range than is commonly found in effects pedals, so that the user is not limited to a small subset of possible sounds and techniques. At first this range can be tricky to harness, and it's quite possible to set the pedal in a way that filters out all audible frequencies and lets no sound through at all, but with use these controls should become quite intuitive, and the increased range will be useful in sculpting unique new sounds.

In the Xerograph Deluxe, the cutoff of the filter can be modulated by three separate sources - the Freq knob, the input dynamics, and the expression pedal. Since these are all mixed together to control the cutoff, by necessity they will interact with each other.

Resonance knob: This adds feedback around the filter, boosting a narrow band of frequencies around the cutoff, intensifying the effect of the filter. Set this low for more subtle tone-shaping effects, to the center for "quacky" sounds, or up to around 3 o'clock for a wet synth sound. Turning the knob to maximum sends the filter into self-oscillation.

Filter Vol: Controls the output volume of the filter signal.

Clean Vol: Controls the volume of the unfiltered signal, mixed in with the filter.

Sensitivity knob: Controls how much the playing dynamics will sweep the filter cutoff; all the way counter-clockwise will turn the envelope follower off completely, so the filter is controlled only by the Freq knob and expression pedal.

Up/Down switch: Controls the direction of sweep for the envelope follower. In Up mode, the filter frequency starts at a low point selected by the Frequency knob, and sweeps higher with increasing dynamics. In Down mode, this is reversed - the Frequency knob selects the highest frequency and sweeps down from this point.

Expression pedals

The recommended expression pedal to use is the Moog EP-3. It's wired to correctly interface with the Xerograph Deluxe and has the range attenuator knob, which is necessary for setting the range of the sweep. Set the low frequency with the Freq knob on the XD, then use the range knob on the EP-3 to set the maximum frequency. Using these two controls, you can define a sweep as narrow as a few semitones, within whatever frequency band you desire.

Most other expression pedals have a minimum value limiter, rather than the maximum value. This is not useful here as it duplicates the function of the Freq knob on the XD.

Power supply

The XD is powered by the industry-standard 9 volt DC center-negative power supply (2.1mm jack). It draws 85 mA. Use a power supply that can source at least this much current.

Quick start continued

Switch to Down mode - in this mode you'll generally want to turn Freq much lower than it would be in up mode, and you may want a higher Sensitivity setting in this mode as well since we want to sweep far down from the maximum.

Use with other pedals

The XD is great for carving up and accentuating harmonics. Feeding it a signal with plenty of harmonic complexity will give it much more material to work with, and lead to stronger sounds. Iron Ether pedals such as the Oxide, Subterranea, QF2, and FrantaBit are all designed to add different varieties of harmonic richness and therefore work well preceding the XD. Try your favorite fuzzes and overdrives in front of it. Note that the output level of the pedal(s) preceding the XD will impact the way the envelope follower responds.

Finish

Each Xerograph Deluxe is individually machine-engraved, then painted by hand. As a result, each one has individual variations - no two will look identical.

Warranty

Your Xerograph Deluxe is warranted for materials and manufacturing for one year from the date of purchase. The warranty is void if you use the wrong type of power supply, take it apart, attempt to modify it, or use it in a way not intended.

Bypass: The XD features a relay-based true bypass system. When the pedal is bypassed, the signal is connected directly from the input jack to the output jack via a mechanical switch, and does not pass through any buffers, electronic (FET) switching, or other circuitry that could have an effect on sound fidelity. It's different from the more common true bypass in that instead of a 3PDT stomp switch, the XD uses a mechanical relay designed specifically for low-voltage audio-type signals. This makes for a quieter switch, greater reliability, and the bonus of automatically going into bypass if power to the pedal is lost.