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SOLID STATE CIRCUITRY

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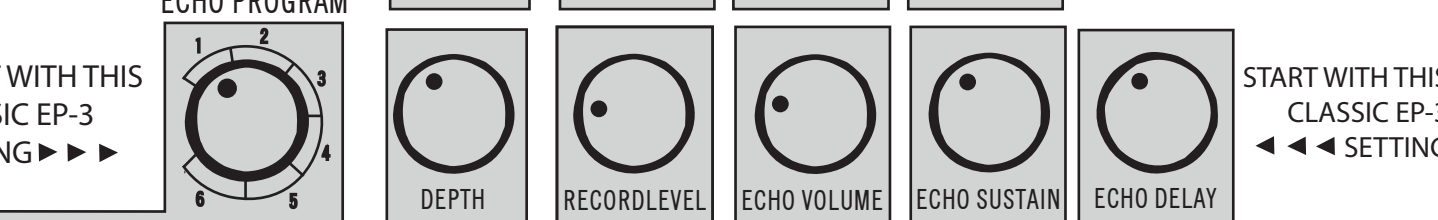
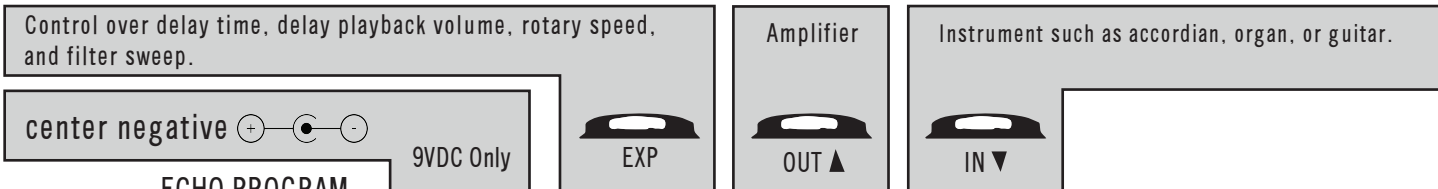
PORTLAND, OR 97215



Echo Program Matrix

ECHO PROGRAM	DESCRIPTION	DEPTH (MODULATION)	EXPRESSION PEDAL (TOGGLE "V" MODE)
1	<ul style="list-style-type: none"> • Classic EP-3 tape voicing. • Slightly bright repeats. • This is the main voice of the Belle Epoch Deluxe! 	<ul style="list-style-type: none"> • Adjusts the amount of tape warble. • Start at noon for classic Echoplex® repeat undulations. 	<ul style="list-style-type: none"> • Controls volume of repeats from off to full.
2	<ul style="list-style-type: none"> • Dark 'analog' voicing inspired by classic BBD delays. • Darker repeats sit underneath the dry signal. 	<ul style="list-style-type: none"> • Adjusts the depth of a medium chorus. • Set to minimum for no chorus to mimic classic BBD-based delays. 	<ul style="list-style-type: none"> • Controls volume of repeats from off to full.
3	<ul style="list-style-type: none"> • Roto-swirl. As if repeats were run through a Leslie. * Use expression pedal to unlock full capabilities of this feature. 	<ul style="list-style-type: none"> • Adjusts the depth of the rotary modulation. • Start at noon, tweak to taste! 	<ul style="list-style-type: none"> • Controls rotary speed. • Full-toe for fast rotor, heel-back for slow rotor.
4	<ul style="list-style-type: none"> • Manually sweeping resonant filter. • As if the repeats were going through a wah pedal! * Use expression pedal to unlock full capabilities of this feature. 	<ul style="list-style-type: none"> • Adjusts the amount of tape warble. • Start at noon for classic Echoplex repeat undulations. 	<ul style="list-style-type: none"> • Controls sweeping filter. • Go from wah-like tones at short delay times all the way to sweeping synth filter sounds. * Because this is a resonant filter you may need to turn down Echo Sustain slightly if you want to prevent oscillations.
5	<ul style="list-style-type: none"> • DMM Chorus Replicates the chorus setting from the classic Deluxe Memory Man®. 	<ul style="list-style-type: none"> • Adjusts chorus depth. Just like the classic DMM it is capable of extreme modulation depth. 	<ul style="list-style-type: none"> • Controls volume of repeats from off to full.
6	<ul style="list-style-type: none"> • DMM vibrato Replicates the vibrato setting from the classic Deluxe Memory Man. 	<ul style="list-style-type: none"> • Adjusts vibrato depth. Just like the classic DMM it is capable of extreme modulation depth. 	<ul style="list-style-type: none"> • Controls volume of repeats from off to full.

Deluxe Memory Man is Registered in U.S. Patent and Trademark Office by Electro Harmonix.
Echoplex is Registered in U.S. Patent and Trademark Office by Dunlop.



6 types of 'tape' (see matrix)

Controls the modulation depth. The type of modulation depends on the setting of Echo Program.

(analog) Controls the gain of the input signal hitting the record amplifier (how hot virtual 'tape' is being hit).

(analog) Full clockwise position gives maximum echo vol. Full counter clockwise position reduces echo vol so that only the instrument is heard. Between these two you can create the desired balance.

(analog) Controls echos per note. As you turn the control, there will be an increase in the Echos sustained. Somewhere above "5" run-away effect will start.

V/D EXP

To prevent loss of Echo.....
clear your head, and rock and roll frequently.

To the right (D) exp pedal controls delay time.
To the left (V) exp pedal pedal controls either delay playback volume, rotary speed, or filter sweep, depending on which Echo Program is selected.

Latching footswitch allows instant run away repeats. Internal trimpot allows this function to be user tunable.

ECHO OSC

The Bypass footswitch can be set to either true-bypass or "trails" mode via an internal slider switch.

BYPASS

EXPRESSION PEDAL REQUIREMENTS

TRS expression pedal. Ring to wiper. Sleeve to ground. Tip to 3.3v.
Linear taper is recommended for the best sweep.
B10k or B25k are common. Pot value not critical.
WARNING: Do not plug a tip-sleeve plug (like a standard guitar or speaker cable plug) into expression pedal jack.

POWER REQUIREMENTS

200ma @ 9v (internal conversion to 22v)
Just use any standard 9 volt power supply and an internal voltage tripler bumps it up to 27 volts and then the shunt-regulator keeps it at a strong and steady 22 volts.