

Baby Blue Echo Guitar Effect

Now with new Version 5 Software 22/10/2020

Vintage Tape Echo Guitar Effects Pedal

The Baby Blue Echo is a guitar effects pedal design with a strong emphasis on accurately emulating the sounds of vintage tape-based echo units as used by Hank Marvin of The Shadows as well as others.

Main Features

- Accurately emulates many classic tape echo machines including Meazzi Echomatic I and II, Vox Long Tom and Roland RE301.
- Advanced low-noise 4-FET preamplifier designed to emulate the valve preamplifiers used in some of the classic tape echo machines
- A 'Drive' Mini control and an internal Level control alters the generation of 'valve-like' harmonics, and allows for the matching of a wide range of guitar pickups from vintage single coils to 'hot' humbuckers.

Advanced Preamp and Controls

Featuring an advanced low-noise 4-FET preamplifier designed to emulate the valve preamplifiers used in some of the classic tape echo machines; it has Drive and Level knobs to control the generation of 'valve-like' harmonics. In addition it has three further controls which can be used to adjust the parameters of individual effects such as the mix of Dry and Wet signals, the number and configuration of emulated tape heads and the feedback

Emulation Control

The emulation knob selects accurate settings of seven much sought after vintage tape echo machines along with an eighth selection which is a reverb and tremolo setting:

1. **Meazzi Echomatic-1 Model 'J' Classic** with controls for Dry/Wet mix, echo Program and Feedback
2. **Meazzi Echomatic-1 Model 'F' Classic** with controls for Dry/Wet mix, echo Program and Feedback
3. **Meazzi Echomatic-1 Model 'F' Special** with controls for Dry/Wet mix, echo Program and Feedback
4. **Echoplex** with controls for Dry/Wet mix, vari-speed (Delay) and Feedback
5. **Vox Long Tom Classic** with controls for Dry/Wet mix, echo Program and Feedback
6. **Meazzi Echomatic-II Classic** with controls for Heads 123 level, Head 4 level and Feedback
7. **Roland RE301 Mode 5** with controls for Dry/Wet mix, vari-speed (Delay) and Feedback
8. **Reverb and Tremolo** with controls for Reverb level, tremolo speed and depth.

Important Power supply Requirements

For quiet operation of the pedal a high quality power supply designed for use in guitar and musical instruments is highly recommended, it must be of the 9 volt DC variety with a Centre negative plug connection. Recommended power supply units available include the Boss PSA230-240, and Visual sound 1-spot. The power supply must be able to provide a minimum current of 100mA for the Baby Blue echo pedal.

Controls

The Baby Blue Echo Tape Echo Emulator pedal has four external adjustable potentiometers, and one eight position switch for controlling the settings of the effect unit along with an internal level trim control.

Emulation: This eight position switch selects which effect model the pedal will use.

Patch: A dual purpose control in conjunction with the Emulation switch. The first five emulations use this control as a five position selector using the A-B-C-E-F scale. The remaining three emulations use this control as a standard variable using the 0-10 scale.

Feedback: This controls the amount echo repeats of the echo emulations and controls the tremolo depth on the Reverb/Tremolo emulation.

Dry/Wet: Used to control the balance of the dry and effect signals of the echo emulations or the reverb level on the Reverb/Tremolo emulation.

Drive: The drive mini control can be used to adjust the amount of harmonic content in the signal and in conjunction with the internal drive trim can be used to balance the signal levels for different guitars and harmonic levels in the signal. NOTE – This is not an 'overdrive' control.

The Table below outlines the emulations and controls.

Program	Emulation	Dry/Wet	Patch	Feedback
1	Meazzi Echomatic I (E1J)	Mix	5 pos Switch	Feedback
2	Meazzi Echomatic I (E1F)	Mix	5 pos Switch	Feedback
3	Meazzi Echomatic I (E1S)	Mix	5 pos Switch	Feedback
4	Echoplex	Mix	Delay speed	Feedback
5	Vox LongTom Classic	Mix	5 pos Switch	Feedback
6	Meazzi Echomatic II Classic	Dry/Wet Heads 1,2,3	Dry/Wet head 4	Feedback
7	Roland Model 301 Mode 5	Mix	Varispeed	Feedback
8	Reverb / Tremolo	Reverb	Tremolo Freq	Tremolo Depth

So what exactly do the Emulation and Patch switch combinations do?

There are 8 Emulations to select from as outlined in the table above numbered from 1-8. Emulations 1-5 use the patch selections A-F from the patch knob which selects different combinations of playback heads. Using Program 1 which is the Meazzi Echomatic 1 Model J (E1J) the following table shows the delay time of each head, the output level of the heads and when selecting A-F which heads are being used.

Program 1 – Meazzi Echomatic 1 Model J (E1J)

Heads	Delay (ms)	dB	A	B	C	E	F
1	121	0	ON	ON	ON	OFF	ON
2	238	0	ON	fbk	OFF	OFF	ON
3	331	-2	ON	OFF	ON	OFF	ON
4	424	-2	ON	ON	ON + fbk	OFF	ON
5	510	-4	ON	OFF	OFF	OFF	ON + fbk
6	595	-4	ON + fbk	ON	ON	ON + fbk	ON

Program 2 – Meazzi Echomatic 1 Model F (E1F)

Heads	Delay (ms)	dB	A	B	C	E	F
1	122	0	ON	OFF	ON	ON	OFF
2	280	0	ON	ON	OFF	ON	OFF
3	360	-2	fbk	ON	OFF	OFF	fbk
4	428	-2	ON	ON + fbk	ON	OFF	ON
5	603	-4	ON	ON	ON + fbk	ON + fbk	ON

Program 3 – Meazzi Echomatic 1 Model F Special (E1S)

Heads	Delay (ms)	dB	A	B	C	E	F
1	121 (90*)	0	ON	ON*	ON	ON	ON
2	280 (207*)	0	ON	ON*	ON	ON	OFF
3	360 (267*)	-2	OFF	OFF	OFF	ON	OFF
4	428 (317*)	-2	ON + fbk	ON* + fbk	OFF	ON + fbk	ON + fbk
5	603 (447*)	-4	ON	ON*	ON + fbk	ON	ON

Program 4 – Echoplex Single echo (E2B)

Heads	Delay (ms)	Patch	Head selection
1	Up to 980ms	Echo Time	Single delay head

Program 5 – Vox Large (VOXL)

Heads	Delay (ms)	dB	A	B	C	E	F
1	76	0	OFF	OFF	OFF	OFF	OFF
2	152	0	OFF	OFF	OFF	ON	ON
3	230	0	OFF	OFF	ON	ON	ON
4	305	-2	OFF	OFF	ON	ON	ON
5	380	-4	ON	ON + fbk	ON + fbk	ON	ON + fbk
6	455	-4	ON + fbk	ON	ON	fbk	OFF

The last three patches, 5 to 7 use the Patch knob on a 1-10 scale to control the parameters set out in the tables below.

Program 6 – Meazzi Echomatic 11 Classic Configuration (E11C)

Heads	Delay (ms)	dB	Dry/Wet	Patch
1	106	0	Level	
2	204	0	Level	
3	285	-2	Level	
4	360	-2		Level

Program 7 – Roland 301 Mode 5 Head Configuration (R301)

Heads	Delay (ms)	dB	Patch	Head selection
1	121	0	Varispeed	off
2	232	0	Varispeed	on
3	598	0	Varispeed	on

Program 8 – Tremolo / Reverb (T/Rev)

Dry/Wet	Patch	Feedback
Reverb Level	Tremolo speed	Tremolo Depth

Suggested Song settings for Ver 5 Baby Blue software only.
Updated 05/05/2020

	Song List	Emulation	Wet/Dry	Patch	Feedback
0	Apache	E1J	4.4	B	0
1	F.B.I.	E1S	3.1	E	2.4
2	Mustang	E1S	4.8	F	2.4
3	Man of Mystery	E1J	3.8	C	3
4	Frightened City	E1S	4.8	F	2.4
5	Midnight	E1S	4.2	F	3.6
6	Quartermasters Stores	E1S	4.4	F	3
7	The Stranger	E1	4	B	0.5
8	Shadoogie	E2C	2	4	6.5
9	Wonderful Land	E2C	3.2	6.4	6.5
10	Kon Tiki	E2C	2.4	4.8	6.5
11	The Savage	E2C	2.4	4.8	6.5
12	Atlantis / Fandango	E2C	3	5.4	6.5
13	Peace Pipe	E2C	2.4	4.8	6.5
14	Cosy	E2C	2.4	4.8	6.5
15	Flingel Bunt	VLT	3	A	1
16	Shindig / Blue Day	E2C	1.4	3	6.5
17	Foot tapper	E2C	1.6	3.4	6.5
18	Sleepwalk	E2C	2.4	4.8	6.5
19	Rider in the Sky	R301	4.8	2	5.4
20	Cavatina / Argentina	R301	4.8	6.4	5.5
21	Theme For Young lovers	E2C	2.4	4.8	6.5
22	1861	E2C	1.6	3.4	6.5
23	Adios Muchachos	E2C	2	4	6.5
24	36-24-36	E2C	3.2	5.2	6.5
25	Dance On	E2C	1.6	3.4	6.5
26	Geronimo / Rumble	E2C	1.6	3.4	6.5
27	The Breeze & I	E2C	2.4	4.8	6.5
28	Parisienne Walkways	R301	5	0.8	4.5
29	Spring is Nearly Here	E2C	2.4	4.8	6.5
30	Big Boy	E1J	3.4	C	2.8
31	Stars Fell on Stockton	E2C	2	4	6.5
32	The Lost City	E2C	2	4	6.5
33	Blue Star	E1S	4.6	A	4
34	Perfidia	E2C	2	4	6.5
35	Gonzales	E1S	3.2	F	2.4
36	Round and Round	E2C	2	4	6.5
37	Sacha / Pipeline	R301	5	2	5.4
38	The Young Ones / Telstar	R301	4.8	2.6	5.5
39	My Resistance is Low	E2C	2.4	4.8	6.5

	Song List	Emulation	Wet/Dry	Patch	Feedback
40	It's Raining in my Heart	VLT	5	B	5.2
41	Zambesi	E2C	1.8	3.8	5
42	Jessica	R301	4.8	9.8	5.5
43	Chi Mai	R301	4.8	5	5.5
44	Theme from Missing	R301	4.8	8.5	5.5
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