

electro-harmonix

ADRIAN BELEW

echoflanger



Welcome to the Electro-Harmonix Adrian Belew Echoflanger, an inspired reissue of the Echoflanger, which includes modifications to create Adrian Belew's signature sounds. The Echoflanger is a compact multi-purpose analog modulation effect pedal that features 6 different effect modes: *Flange*, *Chorus*, *Filter Matrix*, *Slap Back* echo, plus two new "in-between" combination modes inspired by the legend, Adrian Belew: *Chorus + Flange* and *Slap Back + Filter Matrix*. In the new Adrian Belew modes, the Echoflanger's effects combine to produce vibrant and intense modulation and delay effects.

Operating Instructions

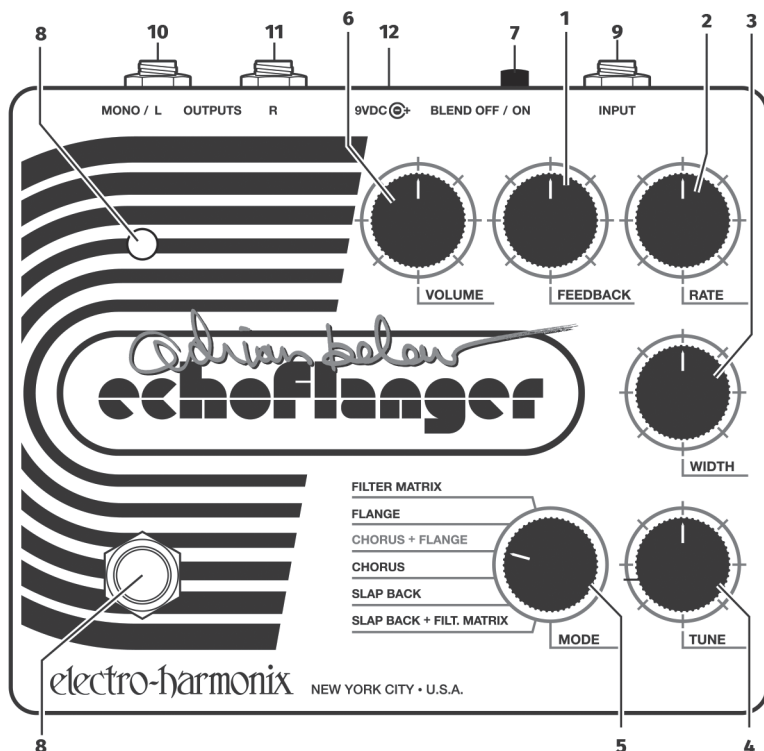
Insert the output plug from the supplied 9VDC AC adapter into the power jack at the top of the Echoflanger. Connect an instrument cable from your instrument to the Input jack. Connect an instrument cable between the Mono/Left Output jack and a suitable amplifier for standard effect usage. For a spacious stereo effect, connect an instrument cable between the Right Output jack and a second amplifier. Click the footswitch to engage the Echoflanger and light the LED.

POWER SUPPLY REQUIREMENTS:

Voltage: **9VDC** Current: **190mA** Polarity: **Center-Negative**

This device comes equipped with an Electro-Harmonix 9.6DC-200 power supply. It requires 190mA at 9VDC with a center negative plug. Use of the wrong adapter or a plug with the wrong polarity may damage the device and void the warranty. Do not exceed 10.5VDC on the power plug.

Controls and Connections



1. FEEDBACK Determines how much of the processed signal is “fed back” to the input. In *Filter Matrix* and *Flange* modes, turning up FEEDBACK intensifies the effect. In *Chorus* and *Slap Back* modes, it increases the number of repeats. CAUTION: At higher settings, the FEEDBACK control may cause oscillation, squealing or roaring sound. This is normal, and may be stopped by backing off the FEEDBACK control.

2. RATE Determines the speed of modulation for *Flange*, *Chorus*, and *Chorus + Flange* modes. The range of the RATE knob is approximately one cycle every ten seconds at counterclockwise

(CCW) to ten cycles per second in the CW position. The RATE knob is disabled in *Filter Matrix*, *Slap Back*, and *Slap Back + Filter Matrix* modes.

3. WIDTH Sets the modulation range for the *Flange* and *Chorus* modes. The WIDTH knob interacts with the TUNE knob to set the total range of modulation. WIDTH is disabled in *Filter Matrix*, *Slap Back*, and *Slap Back + Filter Matrix* modes.

4. TUNE In *Flange* and *Chorus* modes, TUNE sets the center point of the modulation signal. In *Filter Matrix*, TUNE adjusts filter frequencies and for *Slap Back*, sets the echo’s delay time.

5. MODE Select between the 6 modes: *Filter Matrix*, *Flange*, *Chorus + Flange*, *Chorus*, *Slap Back*, and *Slap Back + Filter Matrix*.

FILTER MATRIX A fixed comb filter for creating “chime” effects and manual flanging. Turn the TUNE knob to produce a custom flange effect. The TUNE control will shift the effect from a rich tone at the fully CCW position to a high, airy tone in the full CW position. Turn up FEEDBACK to sharpen or increase the intensity of the effect. The RATE and WIDTH knobs are disabled in this mode.

FLANGE A sweeping comb filter that creates a variety of modulation effects and whooshing sounds. The RATE control determines the speed at which the comb filter sweeps up and down through its frequency range. The frequency range of the sweep is set by the combined action of the WIDTH and TUNE knobs: the TUNE control sets the center frequency, and the WIDTH control determines the depth of the sweep. Maximum sweep range is obtained by setting WIDTH to maximum. Turn up FEEDBACK to sharpen or increase the intensity of the effect.

CHORUS + FLANGE Based on Adrian Belew’s custom “in-between” setting from his vintage Echoflanger, this mode combines the flanger’s sweeping comb filter with the chorus’s modulated echo. In this mode, all controls operate as in *Chorus* and *Flange* modes.

CHORUS A sweeping modulated echo providing movement to your sound. Chorus can create shimmering 12-string tones, rotating speaker, wild modulated delay, and other effects. The FEEDBACK knob determines the number of echoes: as FEEDBACK is turned CW, the number of echoes increases until they runaway near maximum. Set FEEDBACK to fully CCW for a single repeat. The TUNE control increases the delay time of the

echo as it is turned CW. The WIDTH knob sets the modulation depth while RATE controls modulation speed.

SLAP BACK A short delay/echo for spacious “stage effects”. The TUNE knob sets the delay time and FEEDBACK sets the number of repeats. Set BLEND to the ON position to hear your dry signal mixed with the slap back echo. Both RATE and WIDTH are disabled in *Slap Back* mode.

SLAP BACK + FILT. MATRIX A new mode that combines the comb filter of the *Filter Matrix* with the short-delay echo of *Slap Back*. In this mode, all controls operate as in *Slap Back* and *Filter Matrix* modes. Both RATE and WIDTH are disabled.

6. VOLUME Sets the output level of the effect.

7. BLEND Switch When set to the ON position, the dry input signal is mixed with the effect at the output jacks. Set it to ON for typical flanger, chorus and echo effects. When in the OFF position, the dry signal is muted and the Echoflanger only outputs the effect signal, yielding more intense vibrato effects.

8. FOOTSWITCH and STATUS LED The soft footswitch engages or bypasses the effect. The status LED lights when the effect is engaged. In bypass, the LED is off. The Echoflanger employs True Bypass with mechanical relays.

9. INPUT Jack Connect to your instrument or the output of another pedal.

10. MONO/L OUTPUT Jack Main audio output. Use this jack when connected in mono.

11. R OUTPUT Jack Secondary audio output for a full stereo effect. CAUTION: if both outputs are externally mixed to mono the effect might be reduced or inaudible.

12. POWER Jack Current draw: 190mA at 9.0VDC on a center-negative plug.

Footswitch Latching and Momentary Action

The soft footswitch works both like a standard latching footswitch and a momentary footswitch. The latching action means each press and release of the footswitch will toggle between bypass and effect modes. A momentary change between bypass and effect occurs when you press and hold the footswitch.

The Echoflanger changes state immediately upon pressing the footswitch. If you continue to hold the footswitch—for more than half a second—it will return to the previous state when you release the footswitch.

Momentary hold action can be disabled or re-enabled by performing the following procedure:

1. Power down Echoflanger.
2. Press and hold the footswitch.
3. While holding down the footswitch, apply power to Echoflanger.
4. Continue to hold down the footswitch. After about 2 seconds, the LED blinks. A slow blink indicates momentary footswitch holds are disabled. A fast blink means momentary footswitch holds are enabled.
5. Release the footswitch.

The momentary footswitch hold setting is remembered through power-cycles so you can set it and forget it.

Notes and Specifications

- ▶ Audio input impedance: 330K Ω
- ▶ Audio output impedance: 550 Ω
- ▶ Current draw: 190mA at 9.0VDC
- ▶ Maximum Input Signal before clipping: +5.6 dBu
- ▶ Maximum Output Signal: +16 dBu

Note: Attach audio connections to Echoflanger before applying power.



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