

M-117 FLANGER

DESCRIPTION

- A staple of funky 70's sounds, from jet plane to space effects!
- Incredibly controllable parameters deliver infinite possibilities
- Does the work of a flanger, chorus, delay and more!

DIRECTIONS

To set up the M-117, first plug it in using the **AC** power adapter that came with it. (The **M-117** does **NOT** operate on battery power!) Then plug your instrument into the Input jack and your amplifier into the Output jack. Turn on the effect with the footswitch toggle, making sure the red **LED** is **ON** to indicate that the effect is active.

Set all the control knobs at the 12:00 o'clock position (straight up). This is a good starting point to check out what the unit will do. After that, most users will simply want to play with different knob settings to see how they affect the sound. However, we recommend that you read the following technical overview. If you do, you can come to understand the function of each control.

The **M-117** combines phase shifting with a variable, oscillating time delay. The four knobs atop the unit control different parameters affecting the tone:

MANUAL: This knob controls the degree of phase shifting. When the Width knob is turned all the way down (counterclockwise), the variable time delay is shut off, and the Manual knob simply selects how far out of phase to put the signal. As the Width knob is turned up, the Manual knob also selects the frequency center of the time delay effect.

WIDTH: This knob controls the intensity of the time delay. When it's turned all the way down, no time delay is present. As it's turned up, a sweeping time delay is introduced to the phase shift (for example, 5ms – 50ms), at the sweeping speed selected by the Speed knob. At lower settings, the time delay sweeps through a narrower range. At higher settings, the time delay sweeps through a wider range.

SPEED: This knob controls the speed of the time delay cycling, or sweeping. When the Width knob is turned all the way down, the Speed knob has no effect, as there is no time delay present to cycle. When the Width knob is turned up, the Speed knob changes the time delay cycling from slow (lower settings) to fast (higher settings).

REGEN: This knob controls the intensity of the overall effect, by feeding the effect back onto itself for even greater phase shifting and time delay. At lower settings, the regeneration effect is subtler. At higher settings, the regeneration effect becomes more intense and pronounced.

POWER

No battery power. Comes complete with Dunlop **ECB04 AC** Adapter

CONTROLS

- Footswitch toggles effect on/bypass (red **LED** indicates on)
- Manual knob selects frequency center of effect when auto-sweep is disengaged
- Width knob at zero disengages auto-sweep; knob rotates clockwise to increase total phase sweep of effect
- Speed knob modulates rate of effect
- Regen knob feeds effect back onto itself at adjustable intensity, increasing the total phase