Providence®
DELAY 80's DLY-83
USER'S MANUAL

Thank you very much for purchasing the PROVIDENCE® DELAY 80's effects system. Providence products are born from the process of solving various problems, and satisfying the desires of our many users. The Providence technology is fused with the needs of our actual users, to develop unique and practical products. Before each product is completed, stringent testing is repeatedly carried out, with an eye toward pursuing products that guarantee high reliability, but with the emphasis on musical sound quality.
To provide years of trouble-free use, read this User's Manual thoroughly before using the DELAY 80's.

■Features

The DELAY 80's does not use the modeling or simulation type digital delay technology that has been developed in recent years. For the IC that forms the heart of the delay circuit, a dedicated custom chip was used, which is now rarely manufactured. The circuitry is a reproduction of the 80's and revives the warm and fat delay sound of the old digital delays. In many of today's effects, sound processing is done digitally. To many people hearing these devices, they tend to be cold and flat sounding. The digital circuit of the DELAY 80's is used only to delay the sound. All other sound processing is done by analog circuitry. As a result, a full and lustrous sound can be achieved. The DELAY 80's covers a range of delay times from 25ms to 2048ms. The delay time is continuously variable using the RANGE and TIME controls.

●ECHO HARDNESS Control
The ECHO HARDNESS control is provided as a parameter adjustment to create your own original sounds. By controlling the midrange of the delay sound, the body of the echo tone can be made to be warm without a feeling of hardness. In addition, since the delay circuit functions in a feedback loop, the effect of tape echo or analog delay can be recreated.

●FEED BACK Control
If an extreme amount of delay sound is allowed to feed back, the pedal can easily enter into an oscillation state. By manually operating the ECHO HARDNESS and TIME controls together, musical intervals and sound quality canbe changed.

●HOLD Function
The HOLD function can be used with a long delay for sound-on-sound playing, or by setting a short delay time, tricky sound effects can be set up to match a song or solo. With the effect turned OFF, the footswitch can be used to hold whatever was played prior to hitting the footswitch, up to a time equal to the setting of the delay time.

●DIRECT and MONO Outputs
When using the delay in mono mode, use only the MONO output. With the effect turned ON, the straight sound and delayed sound will be mixed and provided at the output. When using both the MONO and DIRECT outputs together, with the effect ON the delayed sound will be provided to the MONO output, and with the effect OFF, the straight (dry) sound will be provided. The DIRECT output will always provide the straight (buffered) sound.

●Multi-function LED
Besides showing the ON/OFF status of the pedal, a battery check circuit causes the LED to darken just prior to the operating limits of the delay circuit being reached, which would deteriorate the sound quality.

■Functions

●LEVEL:
Controls the effect (delay) sound level. Turned fully clockwise, the effect sound and straight sound will be at the same level (1 to 1).

●ECHO HARDNESS:
Controls the midrange level of the effect (delay) sound. With feedback applied, the midrange of the echo repeats is gradually attenutated, to provide a natural echo sound. It can also simulate a tape echo or analog delay. Turned fully clockwise, ECHO HARDNESS is OFF.

●FEEDBACK:
This controls the amount of effect (delay) sound fed back to the input section. The delay sound is attenuated as it repeats. Turning the knob to the right from the 12 o'clock position will enable oscillation to occur. Depending on how far the knob it turned to the right, the oscillation will suddenly begin.
※Caution: When the pedal begins to oscillate, the sound level will start to increase. Use the LEVEL control to keep the sound level down. If theoscillation continues, the sound may become distorted.

●TIME:
Controls delay time. The delay time can be continuosly adjusted within the range set by the RANGE control.

●RANGE:
Sets the range within which the delay time, or HOLD time when activated, as shown in the table to the right.

●HOLD:
With the RANGE switch set in the HOLD position, you can hold the delay sound. This hold function can be turned ON/OFF with the footswitch. The LED lights when the HOLD function is ON.

●OUTPUT:
■**MONO:** Ordinarily you will plug into the MONO jack. The delayed sound will be mixed with the straight sound and output from this jack. When using the DIRECT output, with the effect ON the delayed sound will be provided to the MONO output, and with the effect OFF, the straight (dry) sound will be provided. The DIRECT output will always provide the straight (buffered) sound.
■**DIRECT:** The input signal is buffered and fed to the DIRECT output jack. Plugging in to the DIRECT jack alters the operation of the MONO output.

●RANGE

Delay Position	25～76ms	76～228ms	228～684ms	684～2048ms
Hold Position	–	76～228ms	228～684ms	684～2048ms

■Main Specification

●Controls: LEVEL, ECHO HARDNESS, FEED BACK, TIME, RANGE
●Jacks: Standard 1/4 inch phone jacks (INPUT, OUTPUT [DIRECT, MONO]), DC9V Input jack
●Power: Power: 9V battery (one), AC Adaptor
※Since the DELAY 80's uses more power than an analog effector, an AC adaptor should preferably be used. Use a battery only when absolutely necessary to do so.
●Power consumption: DC9V approx. 40mA (with effect turned ON)
●Size/Weight: 122(D) x 101(W) x 55(H)mm / Approx. 410g (without battery installed)

■Caution

●When the pedal is connected to an amp or other device, do not remove the plugs from the input or output jacks. Doing so may cause sufficient noise to damage the speaker.
●If the pedal should fail to work or if it works abnormally, please contact the place of purchase or Pacifix Ltd.
●If the pedal is not used for an extended period of time, please remove the battery to prevent leakage which could damage the pedal.
●A battery should be inserted into the pedal even when using an AC adaptor. By doing so, if the AC adaptor plug should be inadvertently disconnected, power will continue to be supplied by the battery to provide uninterruptedperformance. An AC adaptor with a regulator circuit is recommended.
●If the battery voltage becomes too low, the pedal effect may become weak, the output level may drop, or no sound may come out of the pedal. In that case, please replace the battery with a new one.
●As the internal trimmer is set for optimum performance, never try to adjust it. Even a slight change in setting can disrupt the circuit clock signal causing the circuit to stop functioning and no sound to be output. Be very careful not to change this setting.
●Inserting a plug in the INPUT jack will turn on the pedal (with a battery inserted).
Note that no sound will be output for two seconds after the effect is powered on.
This is normal operation.
※(Designs and specifications are subject to change without notice.)

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