

RK2000

FUNK SIREN DELAY

The RK2000 is a studio-quality stereo delay pedal designed to bridge the gap between classic rack delay units and modern pedalboard functionality. It features up to 1023ms of delay time, a dedicated HOLD function for infinite repeats, and an LFO-driven modulation section capable of everything from subtle movement to the signature "Funk Siren" pitch warbles.



• Please use the Left Input and Output when operating in Mono

PRIMARY CONTROLS

INPUT

Controls the signal level entering the delay engine.
The nominal position is at noon.
Turning this knob above noon adds saturation.

BLEND

Blends in the amount of delay.

FDBK

Sets the number of repeats.
Maximum produces infinite repeats

FILTER

Shapes the tone of the repeats. Neutral at 12:00.
Turn left to cut bass (High-Pass)
or right to cut treble (Low-Pass).

DEPTH

Determines how much the delay pitch shifts up and down.
Creates everything from subtle tape-like flutter
to deep, four octave pitch bends.

RATE

Adjusts the modulation speed. Use lower
settings for slower pitch movement
and higher settings for intense pitch warble.

TIME

Adjusts the spacing of the repeats from
near-instant doubling (1ms)
to over a full second (1023ms).



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SWITCHES AND BUTTONS

LEFT FOOTSWITCH (DELAY/TAP)

Turns the delay effect on or off.

TAP TEMPO

Hold the left switch to enter Tap Tempo mode. Once the LEFT LED begins blinking, tap the switch to set the delay time. Tap Tempo mode automatically times out after 8 seconds. Moving the TIME knob will automatically override the tapped tempo.

RIGHT FOOTSWITCH (HOLD/CLEAR)

The HOLD function captures the current delay buffer for infinite repeats. The RIGHT LED will turn Blue to indicate HOLD is engaged.

CLEAR

Press and hold to clear the audio currently stored in the delay buffer.

NOTE ON HOLD FEATURE:

The pedal always records a full 1-second (1023ms) "window," even if your TIME is set much shorter. Because HOLD captures that entire window, you may hear a brief volume swell or "hidden" audio when you release it. This is expected behavior.



PRESET BUTTON

Cycles through 5 presets, represented by the LEDs. When all LEDs are off the pedal is in Manual Mode and follows the current knob positions. You can also advance presets by pressing both footswitches simultaneously.

SWITCHES AND BUTTONS



LEFT BUTTON: (φ / SUB): PHASE

Toggles the phase of the delay feedback. Blue is normal. Red is Inverted (180°).

SUBDIVISIONS

While Tap Tempo is active, this button cycles through delay subdivisions. (Quarter, Eighth, Dotted-Eighth, Triplet, Sixteenth).



RIGHT BUTTON (MOD)

Turns modulation on and off. The Mod LED blinks Red at the modulation rate when active. The LED turns Purple if both MOD and HOLD are active.

NOTE:

When both the MOD and HOLD function are active (indicated by a PURPLE LED), pressing the RIGHT FOOTSWITCH will exit the HOLD function, or pressing the RIGHT BUTTON will exit the MOD function.

The RK2000 modulation uses an LFO to create complex and interesting textures.

When combined with the HOLD function, this produces unique pitch shifts and "funk siren" octave warbles.

TAP TEMPO & SUBDIVISIONS

Tap tempo lets you set delay time via the
LEFT FOOTSWITCH or an external momentary switch.

HOW TO TAP

Hold the LEFT FOOTSWITCH to enter tap mode and then tap to set the tempo.
While in Expression Mode, an external momentary switch connected to the EXP/MIDI jack via a standard TS cable is always active and does not require entering tap mode.

VISUAL FEEDBACK

The LEFT LED blinks in time with your taps to confirm the setting.

EXITING

Hold the LEFT FOOTSWITCH to save and exit, or wait 8 seconds
for the pedal to exit automatically.



SUBDIVISIONS

While in tap mode, press the LEFT BUTTON to cycle rhythms.

The Green LEDs near the TIME knob indicate the setting.

REMOTE AND EXP/MIDI EXTERNAL CONTROL

- The REMOTE jack accepts momentary or latching switches.
The TIP of the cable always controls the HOLD feature.
- The RING can be configured to toggle either Delay Bypass or Modulation.
The EXP/MIDI jack is a multi function port for Expression or MIDI control.

EXPRESSION PEDAL SETUP

A TRS expression pedal can be mapped to control the sweep of any single knob on the pedal. Set to control BLEND by default.

1. INITIALIZE

Ensure the EXP/MIDI jack is in Expression mode and connect your pedal via a TRS cable.

2. SETUP MODE

Hold the LEFT BUTTON until the LEFT LED blinks.

3. SET HEEL VALUE

Move the expression pedal to the heel down position where the LED turns RED. Set your chosen knob to the desired start value.

4. SET TOE VALUE

Move the pedal to the toe down position where the LED turns BLUE. Set the same knob to the desired end value.

5. SAVE AND EXIT

Press either footswitch to save the mapping to the current preset. The LEFT LED blinks to confirm the update.

CLEAR OR CANCEL

To clear a mapping while in setup, hold either footswitch until the LEFT LED blinks. To exit without saving, hold the LEFT BUTTON until the blinking stops.

FACTORY PRESETS



01
FUNK
SIREN



02
TAPE "WILL"
DEGRADE



03
SLAP
BACK



04
LITTLE BIT-O
CHORUS



05
LONG
DELAY

SAVING PRESETS

The RK2000 stores your favorite settings across 5 local slots or 127 MIDI locations. Successful saves are confirmed when the LEFT and RIGHT LEDs blink RED.



Method 1: Using the PRESET BUTTON

1. Enter Save Mode: Hold the PRESET BUTTON until the Preset LED blinks.
2. Select Slot: Press the PRESET BUTTON to cycle through presets 0-5.
3. Confirm Save: Hold the PRESET BUTTON until the LEDs blink RED.

Note: Saving to Manual Mode (Preset 0) will overwrite your default startup state.

Method 2: Using the Footswitches

1. Enter Save Mode: Double-tap the LEFT FOOTSWITCH (Preset LED will blink).
 2. Select Slot: Press the RIGHT FOOTSWITCH to cycle through presets.
 3. Confirm Save: Hold the LEFT FOOTSWITCH until the LEDs blink RED.
- To Recall Only: Briefly tap the LEFT FOOTSWITCH to load the preset without saving current settings.

Method 3: Saving via MIDI

1. Enter Save Mode: Use either method above to make the Preset LED blink.
2. Send Command: Send a MIDI Program Change (PC) message for the desired slot (1-127)

Confirm Save: The LEDs will blink RED once successful.

POWER UP FUNCTIONS

To access these settings, hold the specified button(s) while connecting power to the pedal.

FACTORY RESET

Hold LEFT FOOTSWITCH + RIGHT FOOTSWITCH + PRESET Button.

All LEDs will flash to confirm the reset is complete.

BYPASS MODE

Hold RIGHT FOOTSWITCH.

Blue (Default): True Bypass. Red: Buffered Bypass

WET/DRY MIX

Hold LEFT FOOTSWITCH + LEFT BUTTON.

Blue (Default): Wet + Dry signal.

Red: Wet only (Mutes the dry signal. No output when bypassed).

TRAILS

Hold LEFT FOOTSWITCH + RIGHT FOOTSWITCH.

Blue (Default): Trails Off (Delay cuts off instantly on bypass).

Red: Trails On (Repeats decay naturally when bypassed).

REMOTE SWITCH TYPE

Hold LEFT FOOTSWITCH.

Blue (Default): Momentary. Red: Latching.

REMOTE CONTROL OF HOLD OR MOD

Hold LEFT BUTTON + RIGHT BUTTON.

Blue (Default): Remote ring controls Modulation (MOD) and HOLD.

Red: Remote ring controls DELAY/TAP and HOLD.

STEREO PING PONG

Hold LEFT BUTTON.

Blue (Default): Parallel Stereo. Red: Ping-Pong Stereo.

EXP or MIDI

Hold RIGHT FOOTSWITCH + RIGHT BUTTON.

Blue (Default): Expression pedal control. Red: MIDI control.

MIDI

MIDI is a communication protocol that allows any controller sending standard MIDI PC and CC messages to control and/or automate parameter changes on the RK2000 pedal, instantly recall any of its 127 presets, and sync with external devices (such as an external MIDI clock).

Note: The RK2000 is set to Channel 1 by default.

MIDI CONNECTION

The RK2000 utilizes the MIDI Association Type-A standard. For increased durability it uses a 1/4" TRS connector rather than a 3.5mm jack.

Note that this unit does not feature MIDI Out or MIDI Thru.

TYPE-A WIRING CONFIGURATION

Tip: Pin 4 (Voltage) | Ring: Pin 5 (Data) | Sleeve: Pin 2 (Ground)

MIDI CHANNEL SETUP

Each device in a MIDI chain is typically assigned a unique channel so it only responds to messages intended specifically for it.

To set the channel on which the RK2000 receives data:

1. **Connection Setup:** Ensure the EXP/MIDI jack is configured for MIDI mode (see Power Up Functions).
2. **Enter MIDI Channel Setup mode:** Hold the RIGHT BUTTON while applying power until the LEFT LED and RIGHT LED blink RED.
3. **Identify:** The four Preset LEDs will flash the current channel according to the MIDI Channel Identification Codes Chart (Scan QR Code below).
4. **Adjust:** Press the PRESET BUTTON to cycle through channels 1-16.
5. **Save:** Press either the LEFT or RIGHT FOOTSWITCH to store the setting and exit.



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