



## KJams Rotary 2 pedal

### Description

The KJams Rotary 2 pedal has two rotary programs. They are modeled after the Leslie rotating speaker. Just like the Leslie, the input signal is passed through an 800 Hz crossover; the highs are sent to a horn and the lows to a woofer. The horn and woofer rotate at different speeds and accelerate at different speeds, the same as a Leslie. Each has its own vibrato (from the Doppler effect of the speaker rotating) and tremolo (from the speaker facing toward or away) that vary with the speed. The only difference between the programs is that the Dual program has two horns offset from each other that add a chorus-like effect.

The Leslie has a speed control that alternates between fast and slow. The speed limits in the Rotary 2 match the Leslie, but there are also pots so you can set the minimum speed and maximum speeds you desire. The Tap switch toggles between the speeds. Depending how you set the pots, the speed will either accelerate/ decelerate like the Leslie, or change immediately. There is also a Mix pot that controls the mix of the horn and woofer. It acts somewhat like a tone control.

### Features

The pedal features:

- ◆ true bypass
- ◆ three program control pots
- ◆ output level control with gain up to 10dB
- ◆ built-in tap switch
- ◆ external tap switch input
- ◆ external expression pedal input

The face plate is solid wood, so the grain in each piece will be unique. It is sealed with Birchwood Casey Tru-Oil.

The pedal is based on the Spin FV-1 DSP chip, and is designed and assembled in Holland, Michigan, USA.

### Instructions

The Rotary 2 pedal has two programs, selectable by the toggle switch:

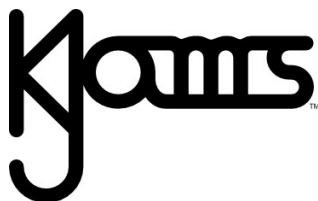
- ◆ Single (down) - Rotary with two Speed controls and Horn/Woofer mix control.
- ◆ Dual (up) - Rotary with two Speed controls, Horn/Woofer mix control, and a second Horn.

Footswitches

- ◆ Bypass is a standard bypass/enable latching switch.
- ◆ Spd1/Spd2 toggles the rotary speed between the settings on the two Speed controls. See below.

Pots

- ◆ Speed controls



- The two Speed controls set the maximum and minimum speeds.
- Which Speed control is currently active is set by the Spd1/Spd2 switch.
- If Speed 1 control is set lower than Speed 2, pressing the Spd1/Spd2 switch will cause the speed to gradually change from one speed setting to the other.
- If Speed 1 is set higher than Speed 2, pressing the Spd1/Spd2 switch will cause the speed to immediately change from one speed setting to the other.
- ◆ Hi/Lo Mix is the mix of the horn and woofer. It acts similar to a tone control.
- ◆ Volume controls output level.

#### Jacks

- ◆ In and Out jacks are standard mono, right to left.
- ◆ Spd1/Spd2 external input functions in parallel with the Spd1/Spd2 footswitch. Use a standard normally open switch.
- ◆ Expression replaces the middle/lower control, Speed 1.
  - If the last tap on Spd1/Spd2 has set the pedal to Speed 1 control, the Expression pedal controls the speed.
  - If the last tap on Spd1/Spd2 has set the pedal to Speed 2 control, the Expression pedal does not control the Speed until Spd1/Spd2 is pushed again.

#### Power

- ◆ Input power is standard center-negative 9VDC.
- ◆ The pedal draws 62mA.
- ◆ The pedal is safe with higher voltages, up to 18VDC, but using higher voltages will not affect the sound, and we discourage using them.