

## LIMITED WARRANTY

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

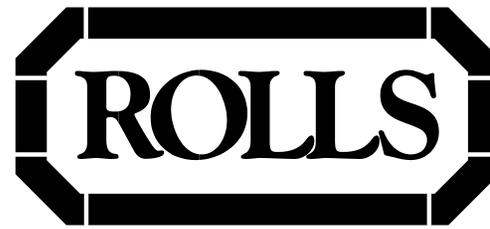
The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, TRANSPORTATION CHARGES PREPAID. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RFX  
Salt Lake City, UT



# RP147 ROTORHORN Rotating Speaker Simulator

## SPECIFICATIONS

Input	Dual 1/4" phone
Output	Dual 1/4" phone
Output level	+5 dB max
Delay time	6 Ms
Crossover freq	800 Hz
MIDI IN	Program change w/omni, ch 1, 9 or 16
Pedal in	Momentary contact on tip or ring to ground
Phantom pwr out	12VDC on pins 1 and 3 of the MIDI DIN jack
Size	19 X 1.75 X 6 inches
Power	120 VAC 50/60 Hz 12 VA

## OWNERS MANUAL

## INTRODUCTION

Thank you for your purchase of the Rolls RP147 Rotorhorn. The RP147 is a line level rack mount signal processor for duplicating the sound of a rotating horn speaker cabinet electronically. It has two-way crossover network as well as simulated bass and treble "rotors". It may be controlled by the front panel, remote foot switch or MIDI program changes and is housed in a single space 19" painted steel chassis. The RP147 is intended for live performance or studio work, it is simple to use and is ready to work upon power up.

### Features

- > Accurate simulation of "Leslie" fast, slow, and brake
- > Front panel and footswitch control of all functions
- > MIDI control of all functions
- > Single space 19" rack chassis
- > Both chorus and vibrato modes
- > Will phantom power all ROLLS MIDI foot controllers
- > Speed may be controlled by controller #4

### Using the ROLLS RP147

Connect the signal source to the input jacks on the rear. If a mono source is used use only "RIGHT IN" and "RIGHT OUT". The effect will come out both jacks but in "BYPASS" only the inputs connected will pass through. The "INPUT LEVEL" may be used to match the bypass signal or make the process signal greater or less. If too much signal is input the special overdrive circuits offer a "tube" like distortion. The unit may be controlled three ways, front panel buttons, remote foot switch, and MIDI controller.

If MIDI control is being used connect the controller to the MIDI IN jack on the rear panel. If a ROLLS MIDI controller is used a power adapter will not be necessary as the power will be through the cable (as long as the cable has all 5 wires connected). The RP147 recognizes program change numbers 1 through 5 as follows.

Program change # (numbers starting at 1)

- 1 > Bypass
- 2 > Active (nothing changed)
- 3 > Active slow
- 4 > Active fast
- 5 > Active stop

The speed may be controlled by controller #4 on the same channel as the program changes. The speed will vary with data #127 being equivalent to the fast speed and data #0 as stop. If your controller doesn't have that much range you can still achieve full speed range by adjusting P2 on the circuit board to full CCW, this will give the maximum range the controller can give but when it is being used with the other controls the fast speed will be too fast. Also touching any button or sending a program change will take it out of the "controller" mode and the RP147 will assume the new parameter, a new controller data # will have to be sent to resume operation. Adjusting P2 is cause for deep meditation and soul searching.

On the rear panel is a 3 pin header connector that is used for selecting the MIDI channel, only channel 1, 9 or 16 may be selected. The unit must be off when changing the channel, looking at the rear the pins are numbered 3 2 1. With no shorting clip the RP147 is in "omni" mode, or all channels are recognized.

- No pins shorted = all channels recognized
- Pins 1 and 2 shorted = channel 9
- Pins 3 and 2 shorted = channel 1
- Pins 1, 2 and 3 shorted = channel 16

The ROLLS RP8 dual foot switch may be used to control the RP147 by connecting a stereo cord between the two. This will allow fast/slow and active/bypass control. And it is theoretically possible to enter "BRAKE" if both are pressed exactly together.

The speeds are controlled internally by trim pots located on the motherboard. P2 controls the fast speed and P3 the slow.

## SCHEMATIC

