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 PRE-PAID. 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 deface-ment, 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.
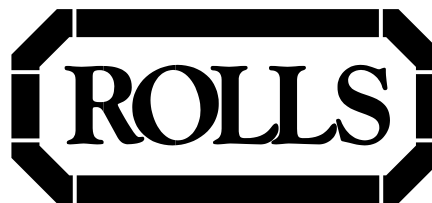
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ROLLS CORPORATION
SALT LAKE CITY, UTAH
7/02

ROLLS

MP45
Guitar Processor

Specifications

Input	1/4" front panel high impedance
Output	Two 1/4" jacks
FX Loop	stereo send and return 1/4" jacks +18dBV max
Headphone	1/4" stereo output for 16 ohms or greater
EQ	5 bands +/- 15dB 80, 240, 750, 2200, 6600 Hz
MIDI	channel 1-16, omni, off; program changes 1-43
Chorus	depth 0-100%, speed 0.1-10 sec.
Tube compliment	Four stages of gain using low noise 12AX7A's
Phantom power	+12 vdc 50 ma on the MIDI jack pin 3, 1=gnd
Dimensions	19" X 1.75" X 10" (48 X 4.5 X 25 cm.)
Weight	7 lbs. (3.2 kg)
Accessories (optional)	MP80 controller, or dual pedal controller

OWNERS MANUAL

INTRODUCTION

The MP45 is the culmination of a great deal of effort and has performance and convenience features that make it absolutely unique.

* Programmable Knobs
* Programmable EQ sliders with popular center freqs.
* True non-volatile memory, no batteries to replace ever.
* Three modes of operation switch selectable
* Both MIDI and pedal controllable
* Programmable gain stages
* Headphone amp
* 43 presets in standard MIDI format (including playthrough)

Safety precautions

The MP45 has very hazardous, uninsulated voltages inside the chassis. Opening the chassis for any reason will void the manufacturer warranty and presents a dangerous shock hazard. Never get it wet, if anything spills on the unit shut it off immediately and take it to the dealer for service. Use of a surge protector is recommended to decrease chances of equipment damage by voltage surges.

The Front Panel

INPUT   Plug in the instrument cord here

DRIVE 1   Adjusts the gain of the first two tube stages

DRIVE 2   Adjusts the gain of the second two tube stages, only works when the 4 stages LED is lit

MASTER   This is the master volume for the tube gain stages

PRESENCE   Selects overall treble tonal characteristics

SPEED   Controls the sweep speed of the chorus

DEPTH   Adjusts the Depth of the stereo chorus effect, when fully CCW the chorus is disabled

OUT LEVEL   Controls the overall output level of the MP45 and is not programmable.

HEAD PHONES   This is the stereo headphone out jack

BRITE   Turns on treble boost in the tube section

4 STAGES   Turns on all four tube gain stages for maximum gain

80, 240, 750, 2200, 6600 These are the boost or cut equalizer frequencies and are used for overall tone control

FX LOOP   Turns on the stereo effects loop which is accessed by jacks on the rear of the unit

GATE   Turns on the automatic noise gate and need only be used for noisy effects in the effects loop

LEARN Mode is for programming the MP45, the STORE button is active in this mode

PLAY   This is the play through mode, all the knobs and buttons are active.

RECALL   Mode is for calling up stored presets. The knobs and sliders are inactive.

STORE Puts information to the memory of the MP45 and is only active in the learn mode

UP / DOWN   Switches are for cycling through the presets - not active in the PLAY mode

OPERATION

The MP45 has three modes of operation LEARN, PLAY and RECALL shown by an LED next to the label.

* The LEARN mode is for storing preset information in memory. Set the knobs and buttons for the desired sound then press the store button, the display will blink and the knob settings are stored in the preset number on the display. Note: the output level knob is not programmed and is for final volume adjusting, for best results this should be set at about 7 during programming. There are a total of 42 memory locations.

* In the PLAY mode the MP45 knobs work manually, the MIDI is disabled and a footpedal can be used to turn on or off the STAGES, BRITE, FX LOOP or GATE switches.

* The RECALL mode is for calling up stored presets, these may be accessed with the front panel UP or DOWN buttons, using a MIDI controller such as the ROLLS MP80, or a special footswitch can be used to go up or down. The presets are numbered as MIDI program changes 1 through 42 with change number 43 showing as a 0 in the display. The 0 means the knobs are active and the MP45 is in a play through mode on that preset. On all the other presets the knobs and sliders are inactive since they were programmed earlier. However the buttons are still active, even though they come up as they were programmed.

Remote control

The MP45 accepts MIDI program change information. The it may be setup to listen on any MIDI channel or "on" for all channels or "OF" to disregard all MIDI data. The MP45 will phantom power the MP80 footpedal and uses pin 1 for ground and pin 3 as power. In order to use phantom power the MIDI cable must have all wires connected on the connectors. A special dual footswitch is available that will cycle through the program numbers in RECALL mode, or change the STAGES or FX LOOP switches in PLay mode.

Selecting a MIDI channel

The ROLLS MP45 can receive data from any of the 16 MIDI channels. The channel is programmed by holding the STORE and UP buttons in at the same time the POWER switch is turned on, while in the LEARN mode. The number in the PROGRAM display is the current MIDI channel number. To change the MIDI channel press the UP or DOWN buttons for the desired channel then press the STORE button to save it, turn the MP45 off. The MIDI channel numbers go from 1 to 16 then to "on" meaning any channel then to "OF" meaning no MIDI data is recognized. The MIDI channel will be set when the unit is turned on again.

Resetting the factory presets

The original factory presets may be restored by the following procedure. In the LEARN mode hold in the UP and DOWN buttons while turning on the POWER. An "FP" will show for a moment in the display then the number "1". The MP45 may now be reprogrammed or switched to another mode for use.

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