

PDI-03



Speaker Simulator

Manual



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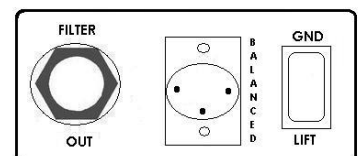
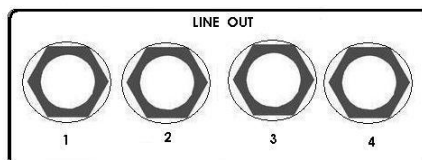
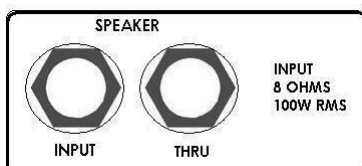
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Palmer PDI-03

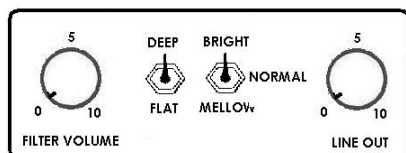
The Palmer Speaker Simulator PDI-03 is a combined signal splitter, DI-box, and (when used as a load box) power soak. It is a single space rackmount unit. Especially designed for electric guitars and basses, all functions have been optimized for live and studio use. The PDI-03 is directly connected to the speaker output of an amplifier, eliminating the need to mic up a speaker cabinet. The special filters within the simulator provide carefully contoured equalization and the signal from the unit is feed via a balanced XLR connector or unbalanced 1/4" jack into a mixing desk, tape deck, or power amplifier, etc. Amplifiers, particularly valve amps can be driven really hard (into saturation) without being limited by volume. Amplifier noise and hum are greatly reduced to practically inaudible levels. Four parallel, unfiltered outputs are available to drive effects units.



CONNECTIONS (Rear Panel): Switch amplifier to 8 ohms (applies to valve type only). Using unscreened cable, connect to SPEAKER INPUT jack of simulator. Additionally, in live situations a cabinet can be connected to the SPEAKER THRU jack, whereby the internal load is switched off. The simulator can handle 100 watts RMS input power continuously (no speaker connected). The output signal is fed into the mic input of the mixing desk via BALANCED XLR OUT or FILTER OUT jack. Both can be used simultaneously if required. The GND/LFT Switch isolates the XLR's pin 1 from the chassis ground, eliminating earth loops.



CONTROLS & SWITCHES (Front Panel): The PDI-03 has separate volume controls for filter and line outputs. Two switches select between the 6 filter presets enabling the unit to simulate various types of speakers and enclosures. Low frequencies are affected by the *DEEP/NORMAL/FLAT* switch. In *FLAT* position the sound is characteristic of an open-back 2 x 12 cabinet. The *DEEP* position reproduces the typical punch of a 4 x 12 stack. The high end is affected by a three-way switch, *MELLOW/NORMAL/BRIGHT*. When using a heavily overdriven amp, the *MELLOW* position produces the warm singing “American” sound, whereas the *NORMAL* position has the bite of the classic “British” loudspeaker. In *BRIGHT*



position, the top end is enhanced lending edge to lead guitar solos and brightness to rhythm parts. Spectacular sounds can be produced by mixing the dry FILTER OUTPUT with the LINE OUTS driving effects units.

TECHNICAL SPECIFICATIONS:

- Passive unit
- Loadbox: ¼" jack input with parallel "THRU" jack for speaker operation
- Loadbox input impedance: 8 ohm, max input load: 100WRMS (200W with cabinet)
- Output impedance ¼" jack: 10K ohm, XLR: 600 ohms
- Output Level ¼" unbalanced OdBu, XLR balanced -10dBu at 25W input
- Controls: Filtered Volume control, with 3 position bass and treble switches
- Line Out volume for unfiltered signal
- Both output signals with volume control are independent

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