

# **LANEY**

## **USERS MANUAL**

**PB 150 HEAD**

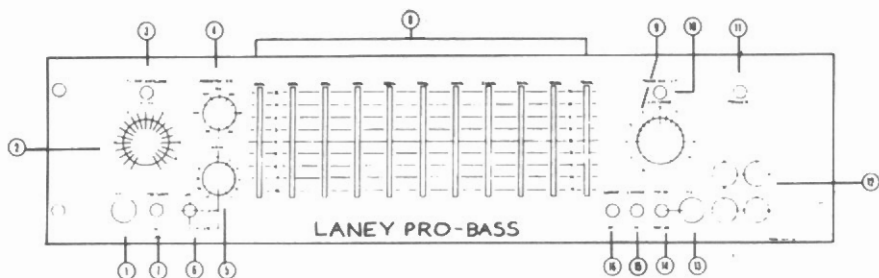
**PB 150-15**

**PB 150-10**

**PB 100-15**

MANUFACTURED BY:  
LANEY AMPLIFICATION LTD  
NEWLYN ROAD  
CRADLEY HEATH  
WEST MIDLANDS  
ENGLAND

# CONTROL PANEL



1. High input impedance  $\frac{1}{4}$ " jack socket, will accept all guitars with passive or active pickups.
2. 'Input gain control'; when used with preamp overload indicator matches your guitar output accurately to the amplifier for optimum low noise and distortion performance.
3. 'Preamp overload indicator'; shows when any part of the preamplifier or tone control system is about to distort due to over high signal level. So for optimum results adjust input gain control (2) to just light on peak signals then back it off by one to two divisions so that it does not light. It may be necessary to reajust this when changing tone settings.
4. 'Parametric frequency control'; sets the frequency at which the boost or cut is applied with the parametric gain control. (5).
5. 'Parametric gain control'; controls the amount of boost or cut applied at the frequency set by the parametric frequency control. (4).
6. 'Parametric switch'; is a three position switch 'off' — 'hi Q' — 'lo Q' In the off position the parametric tone controls are by-passed and any setting on controls (4 & 5) have no effect on the sound. In the high Q position the parametrics are enabled and operate on a narrow band of frequency around that selected on the frequency control (4). These frequencies may then be cut or boosted using the parametric gain control (5). With the switch in the 'low Q' position similar operation occurs except that a much wider band of frequency is effected.

The switch may be turned off at any time to return to a flat response. In this way a particular setting may be made and switched in as required.

7. 'Preshape switch'; inserts a fixed tone shaping circuit into the front of the amplifier. This adds high frequency boost and middle cut and its useful in many styles of playing.
8. 'Graphic sliders'; used to apply boost or cut to the sound at the frequencies indicated above each slider. These particular frequencies are chosen to be most effective on bass guitar.

For most purposes a gradual curve shape setting on the sliders is recommended. Each slider is also centre detented to indicate the flat position.

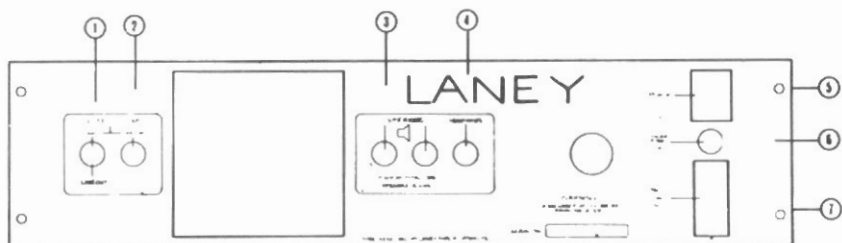
The graphics are turned on with the graphic switch (16).

9. 'Volume'; sets the overall 'on stage' sound level.
10. 'Clip indicator'; Lights when the power amplifier is about to cause some distortion due to clipping and is an indication of full undistorted output.

Note this is not a warning light and in many cases some distortion is acceptable even desirable, so the amplifier may be operated quite safely even into heavy clipping.

- 11 'Power indicator'; shows when power is switched on via rear panel rocker switch.
- 12 'Effects Loops' Two sets of FX loop send return sockets are provided one pre eq and one post eq. Effects units used here must be capable of operating at at least OdBV so as not to introduce distortion or excessive noise.
- 13 'Direct inject output' a low impedance buffered output to feed mix desks etc.
- 14 'Direct inject switch' connects the D.I. output socket either to the untreated signal (pre eq) or with any tone settings added (post eq).
- 15 'Limitaer switch'; this adds a fast attack compressor at the output of the preamplifier. At low signal levels this has no effect but as the power amplifier starts to clip, the compressor is auto-triggered reducing the volume and thereby preventing clipping distortion. This is useful when a loud but very clear sound is required.
- 16 'Graphic switch'; this enables the graphic slider controls, allowing a setting to be made and switched in as required.

## REAR PANEL



- 1 'Effects send/line out'; may be used to slave drive other power amplifiers or be used as a normal FX loop send socket in conjunction with return socket.
- 2 'Effects return'; used with effects send above. This loop is situated after the volume control prior to the main power amplifier.
- 3 'Speaker sockets'; for connection speaker boxes. (Note total load impedance to be not less than 4 ohms). Combination versions are factory fitted with 4 ohm speaker systems.
- 4 'Headphone socket'; an attenuated output suitable for headphone listening, speakers may be unplugged if required.
- 5 'Power switch'; turns the amplifier on and illuminates facia indicator.
- 6 'Power fuse'; safety fuse to reduce the risk of fire in the unlikely event of amplifier failure. This must only be replaced with the correct type and rating.
- 7 'Power inlet socket'; attach correctly wire power cord supplied with the amplifier. Note the supply voltage indicated on your amplifier and do not exceed this figure or permanent damage will result.

# SPECIFICATIONS

Input Sensitivity:	30mV for 150/100 Watts into 4 Ohm EQ flat input overload >20V. Input impedance 100K Ohm.	Effects Loops:-	Pre and post EQ. Nominal sensitivity OdBM controls flat. Low output impedance/22K Ohm input impedance.	Limiter:-	Hard type, switchable, triggered by power stage clipping. Attack 1mS release 2 secs.
Pre-Amp Overload Indicator:	Monitors distortion onset at 4 separate points in pre-amplifier.	Slave In/Out:-	Nominal sensitivity OdBM. Low output impedance/10K Ohm input impedance.	Clip Indicator:-	Triggered by power stage clipping.
Pre-Shape:-	+6dB @ 4KHz/- 11dB @ 500Hz.	Headphone Socket:-	To suit any low impedance phones.	Signal to Noise Ratio:-	> 80dB Controls flat.
Parameters:-	±22dB @ 200Hz-3K5Hz LOW & HI Q.	D.I. Output:-	Switchable pre/post eq. Output impedance low/output level OdBM nominal, controls flat.	Frequency Response:-	-3dB 30Hz - 20KHz.
Graphics:-	±15dB LOW Q @ 40Hz, 80Hz, 120Hz, 160Hz, 350Hz, 700Hz, 1K4Hz, 2K6Hz, 5KHz, 10KHz, 15KHz.	L.F. Filter:-	Fixed @ 30Hz - 18dB/OCT.	Distortion:-	< 0.05% THD
				Output Power:-	@ 5% THD 150/100 watts into 4 OHMS/100/75 watts into 8 OHMS.
				Protection:-	Short circuit/open circuit/mismatch and self resetting thermal device. Electrostatic on preamp input.

In the interest of continuing product improvement and development, Laney Amplification Ltd. reserve the right to change materials and or design specifications without prior notice.

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