LANEY

DPC BASS AMPLIFIERS

MODELS:-

DP300 DP150 DP100

USERS MANUAL

INTRODUCTION

Congratulations on your purchase of a LANEY BASS AMPLIFIER. A short time spent reading this manual will enable you to obtain the best results from the units many features.

BEFORE SWITCHING ON

Your amplifier should be fitted with a three pin "grounded" (or "earthed") plug. Please make sure that the amplifier is powered from a "grounded/earthed" outlet.

If changing or fitting a plug yourself, ensure that the applicable wiring code is adhered to, in the U.K. for example connections should be made as follows:-

EARTH OR GROUND	**— GREEN/YELLOW**
NEUTRAL	**— BLUE**
LIVE	**— BROWN**

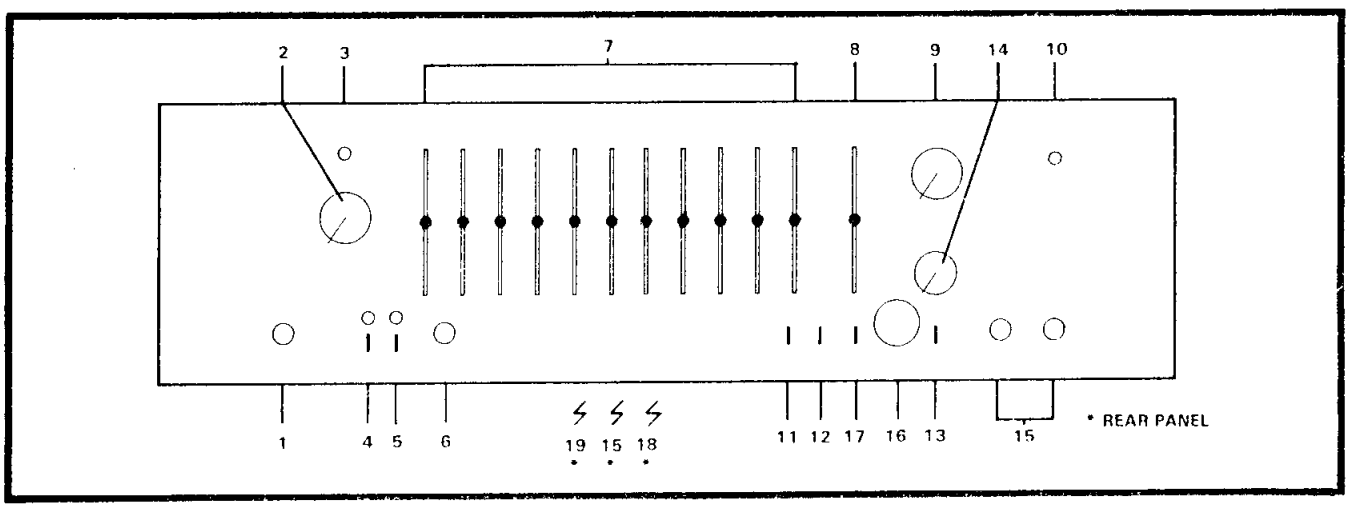
The amplifier should never be exposed to moisture or wetness under any circumstances since it would represent a possible shock or fire hazard.

The mains on/off switch is located on the rear panel. In the unlikely event of a fuse failing the type and rating specified must be STRICTLY adhered to.

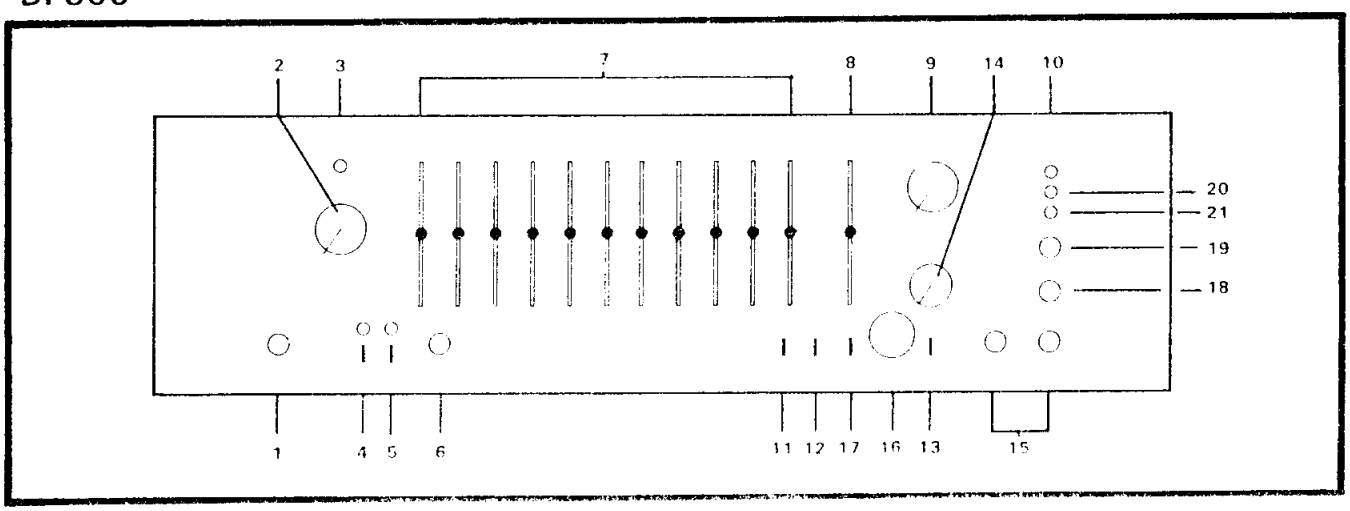
Your amplifier will operate into impedances ranging from 4-16 ohms. When two enclosures are used these should be minimum 8 ohms each.

FACIA PANEL LAYOUT

DP150 DP15010 DP15015 DP10015



DP300



FACIA PANEL KEY

1) INPUT	For all Bass guitars, passive or active ¼" (6.4mm) Jack Socket.
2) GAIN	Adjusts the pre-amplifier gain to match your guitar for optimum performance.
3) PEAK INDICATOR	Glows when pre-amp is overloaded. N.B. Set the gain to just illuminate the L.E.D. on the loudest notes. Adjustments to E.Q. settings may require re-adjustment of the gain control.
4) PRE-SHAPE SWITCH	Inserts a pre-set E.Q. shaping circuit giving High Frequency boost and Middle cut. This is a very popular voicing for many styles of playing or for low level use. Indicator light shows when this is enabled.
5) GRAPHIC SWITCH	This operates the graphic equalisation circuit (7). Indicator light shows when this is enabled.
6) REMOTE SOCKET	Stereo jack socket for remote switching of 4 + 5 via optional FS4 footswitch.
7) GRAPHIC EQUALISER	Allows independent frequency bands to be boosted or cut. For best results a gradual curve should be used with sliders grouped evenly above and below the centre line. Each slider has a centre detent for flat response. (See also 5).
8) GRAPHIC BALANCE	Raising this slider increases volume with graphic E.Q. in, lowering increases volume with graphic E.Q. out. This facility should be used to balance differences in output between graphic E.Q. in and flat response settings. Particularly useful when large amounts of boost or cut are used.
9) VOLUME	Sets on stage volume level.
10) POWER INDICATOR	Glows when mains power is connected and unit is switched on (via rear panel switch).
11) LIMITER SWITCH	Activates a fast-attack compressor circuit. This is auto-triggered, on the output section and prevents clipping distortion at high output levels.
12) NOISEGATE SWITCH	Activates a noise reduction circuit which cuts high frequency hiss etc. when high gain and boost settings are used.
13) DPC SWITCH	Activates the unique DPC circuit (with 14).
14) DPC CONTROL	Adjusts the amount of high frequency attack. When pulled increase bass response.
15) EFFECTS LOOP SOCKETS	These provide a post E.Q. signal for connection of external processors.
16) D.I. SOCKET	XLR socket provide a low impedance balanced line signal for mix desk, either recording or sound re-inforcement.
17) PRE-POST SWITCH	Selects D.I. output either before (pre) or after (post) equalisers settings. Neither affected by volume control.
18) LINE OUTPUT	Provides a line level signal for power amplifiers.
19) HEADPHONE SOCKET	Headphones can be used for tuning or practice. They should have a stereo jack plug fitted.

OVER ➔

20) LOAD INDICATOR Illuminates when internal protection circuit senses a fault at the output stage, e.g. very low impedance, speaker cable fault etc. Output is automatically disconnected from speakers and has to be reset by turning off the amplifier for minimum 5 seconds.

21) THERMAL INDICATOR Illuminates if the unit overheats due to restricted ventilation, automatically resets on cooling. The unit is fitted with a two speed cooling fan which automatically switches to high speed when required.

ON THE REAR PANEL ARE THE FOLLOWING:-

POWER SWITCH Switches on unit and resets load protection.

POWER SOCKET Power Input Socket.
Use mains lead provided fitted with suitable plug (See BEFORE SWITCHING ON) The mains fuse is located in the built in fuse drawer. Ensure that the correct voltage appears next to indicator line.

SPEAKER OUTPUT SOCKETS For connection to external speaker enclosures. Your amplifier will operate into impedances between 4-16 ohms. When two enclosures are used these should be minimum 8 ohms each. DP300 is fitted with XLR and jack socket. Laney DP enclosures are fitted with link sockets to enable further enclosures to be used.

Your amplifier has been designed and built to be of high quality and reliability. Each unit is examined and tested before leaving the factory. If technical problems occurs contact the dealer from whom it was purchased describing the fault – and he may be able to solve the problem immediately.

In cast of difficulty contact the National Distributor for your country.

LANEY ELECTRONICS LIMITED, NEWLYN ROAD, CRADLEY HEATH,
WEST MIDLANDS, B64 6BE, ENGLAND.

SPECIFICATIONS FOR 100W AND 150 WATT UNITS

Input Sensitivity:-	30mV for 150/100 watts into 4 ohms EQ flat Input overload 20V Input impedance 50K Ohm.
Pre-Amp Peak Indicator:-	Monitors distortion onset at 4 separate points in the pre-amplifier.
Pre-Shape:-	+6dB @ 100Hz, -8dB @ 500Hz, + 11dB @ 5KHz
Graphics:-	± 15dB Low Q @ 40Hz/80Hz/120Hz/160Hz/350Hz/700Hz/1k4Hz/ 2k6Hz/5kHz/10kHz/15kHz
Limiter:-	Hard type, switchable, load sensing, triggered by power stage clipping. Attack 1mS release 2 secs.
Noise Gate:-	Switchable soft transition type fixed level.
Effects Loop:-	Post E.Q. nominal signal level 0dBm
Line Output:-	Post Volume nominal signal level 0dBm
D.I. Output:-	Switchable pre-post E.Q. Output XLR balanced. Nominal level -10dBm.
Headphone Output:-	To suit most low impedance headphones using a stereo jack plug.
Sub-sonic Filter:-	Fixed @ 30Hz - 18dB/oct.
Signal to Noise:-	80dB E.Q. Flat.
Frequency Response:-	-3dB 30Hz - 20kHz
Distortion:-	<0.05% THD
Output Power DP150:-	150/100 Watts into 4/8 ohms.
Output Power DP100:-	100/75 Watts into 4/8 ohms.
Amplifier Protection:-	Proof against: short circuit, mismatch, open circuit.

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