

USER MANUAL



WWW.LANEY.CO.UK

DESIGNED & ENGINEERED IN THE UK BY LANEY

Dear Player,

Thank you very much for purchasing your new Laney product and becoming part of the worldwide Laney family.

Each and every Laney unit is designed and built with the utmost attention to care and detail, so I trust yours will give you many years of enjoyment.

Laney products have a heritage which stretches back to 1967 when I first began building valve amplifiers in my parents' garage.

Since then we have moved on from strength to strength developing an extensive range of guitar, bass, public address, multi instrument and keyboard amplification products along with a list of Laney endorsees that includes some of the world's most famous and respected musicians.

At the same time we believe we have not lost sight of the reason Laney was founded in the first place - a dedication to building great sounding amplification for working musicians.

Warm Regards,

Lyndon Laney
Chairman and Founder.

INTRODUCTION

Delivering up to 160 Watts of low end growl and punch into a 15" custom driver and switchable horn. The RB4's lightweight but sturdy cabinet construction houses a simple, ergonomic front panel layout featuring everything you need to be able to sculpt the bass tone you're looking for.

Active or passive pickups are not a problem with a choice of high level and normal inputs.

The onboard switchable compressor and limiter makes controlling your dynamics a breeze and dialing in just the right tone is taken care of with the Bass, Treble, 7 band graphic and finally an Enhance control lets you tweak to your heart content.

Combine all of these features with a Professional balanced D.l. out, Headphone output for silent practice, Auxiliary input for backing tracks and you've got everything you need for gigging or practice.

The RB4 is built to stand life on the road, lightweight, rugged construction, tough vinyl covering, easy grab side and top handles. All this means the RB4 will handle whatever you throw at it with ease.



Expansion is also available with the rear external speaker connection. We at Laney recommend an R115 or R410 cabinet.

We hope you enjoy using your Richter Bass Amp as much as we enjoyed designing it! Best wishes from all at Laney.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electrical products, basic cautions should always be followed, including the following:

- I. Read these instructions.
- 2. Keep these instructions safe.
- 3. Heed all warnings.
- 4. Follow all instructions.
- **5.** Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- **9.** An apparatus with Class I construction shall be connected to a mains socket outlet with a protective connection. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
- II. Only use attachments/accessories provided by the manufacturer.
- 12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. The mains plug or appliance coupler is used as the disconnect device and shall remain readily operable. The user should allow easy access to any mains plug, mains coupler and mains switch used in conjunction with this unit thus making it readily operable. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Never break off the ground pin. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
- 16. If this product is to be mounted in an equipment rack, rear support should be provided.
- 17. Note for UK only: If the colours of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
- a) The wire that is coloured green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, coloured green or coloured green and yellow.
- b) The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
- c) The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
- **18.** This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
- 19. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time.

The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures: According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Earplugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

Duration Per	Sound Level dBA,
Day in Hours	slow response
8	90
6	92
4	95
3	97
2	100
I ½	102
ı	105
1/2	110
1/4 or less	115
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A	Intended to alert the user to the presence of uninsulated 'Dangerous Voltage' within the products enclosure that may be sufficient to constitute a risk of electrical shock to persons. Ce symbole est utililise pur indiquer a l'utilisateur de ce produit de tension non-isolee dangereuse pouvant etre d'intensite suffisante pour constituer un risque de choc electrique. Este simbolo tiene el proposito de alertar al usuario de la presencia de (voltaje) peligroso' que no tiene aislamiento dentro de la caja del producto que puede tener una magnitud suficiente como para constituir riesgo de corrientazo. Dieses Symbol soll den Anwender vor unsolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausrichender Starke sind, um einen elektrischen Schlag verursachen zu konnen.
\triangle	Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product. Dieses Symbol soll den Anwender vor unsolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausrichender Starke sind, um einen elektrischen Schlag verursachen zu konnen. Este simbolo tiene el proposito de la alertar al usario de la presencis de instrucccones importantes sobre la operacion y mantenimiento en la literatura que viene conel producto. Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.
CAUTION:	Risk of electrical shock - DO NOT OPEN. To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified personnel.
ATTENTION:	Risques de choc electrique - NE PAS OUVIRIR Afin de reduire le risque de choc electrique, ne pas enlever le couvercle. Il ne se trouve a l'interieur aucune piece pouvant etre reparee par l'utilisateur. Confier l'entretien a un personnel qualifie.
PRECAUCION:	Riesgo de corrientazo - no abra Para disminuir el risego de carrientazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los tecnicos calificadod.
VORSICHT:	Risiko - Elektrischer Schlag! Nicht offen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung enfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden Konnten. Reparaturen nur von qualifiziertem Fachpersonal durchfuhren lassen.
WARNING:	To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance please read the operating instructions for further warnings.
ADVERTISSEMENT:	Afin de prevenir les risques de decharge electrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidite. Avant d'utiliser cet appareil, lisez les advertissments supplentaires situes dans le guide.

Para evitar corrientazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de

Um einen elektrischen Schalg oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder

Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

usar este aparato, lea mas advertcias en la guia de operacion.

After unpacking your amplifier check that it is factory fitted with a three pin 'grounded' (or earthed) plug. Before plugging into the power supply ensure you are connecting to a grounded earth outler

If you should wish to change the factory fitted plug yourself, ensure that the wiring convention applicable to the country where the amplifier is to be used is strictly conformed to. As an example in the United Kingdom the cable colour code for connections are as follows.

EARTH or GROUND GREEN/YELLOW NEUTRAL - BLUE LIVE - BROWN



NOTE

This manual has been written for easy access of information. The front and rear panels are graphically illustrated, with each control and feature numbered. For a description of the function of each control feature, simply check the number with the explanations adjacent to each panel.

Your Laney amplifier has undergone a thorough two stage, predelivery inspection, involving actual play testing.

When you first receive your Laney guitar amplifier, follow these simple procedures:

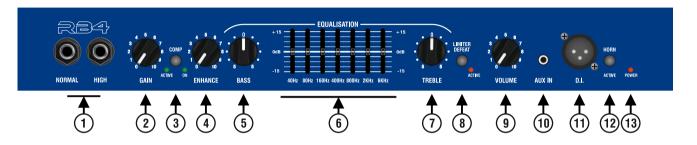
- (i) Ensure that the amplifier is the correct voltage for the country it is to be used in.
- (ii) Connect your instrument with a high quality shielded instrument cable. You have probably spent considerable money on your amplifier and guitar don't use poor quality cable it won't do your gear justice.

Please retain your original carton and packaging so in the unlikely event that some time in the future your amplifier should require servicing you will be able to return it to your dealer securely packed.

Care of your Laney amplifier will prolong it's life.....and yours!

ADVERTENCIA:

ACHTUNG:



- 1 Normal and High inputs are provided for connection of bass guitars. High output basses, either active or passive should be connected via the High socket. Low output basses should be connected using the normal input. High output basses may also be placed in the Normal input if pre-amp overloading is desired.
- 2 This control is used to set the level of gain present in the pre-amp. The higher the level of gain, the more the signal will clip producing distortion. The Gain control should be used in conjunction with the Volume control to produce the desired signal characteristics.
- 3 Engages and disengages the on-board compressor, this compresses the input-signal giving a punchier sound. In association with the compressor are two LEDs, one indicating that the compressor is engaged and one indicating the compressor is active. The amount of compression is controlled by the Gain control. The higher the setting the more compression. With most guitars compression will begin at about 5-6 on the control. It is possible to have the compressor engaged but it only be active during certain periods of playing typically the most dynamic sections.

- The Enhance control provides an increased definition at the low-end of the frequency spectrum giving you a tighter, punchier sound. The Enhance control does this by providing a dip in the frequency-response of the amplifier at approximately I50Hz. This dip reduces some of the harmonics of the important low-frequencies around 40-80 Hz producing better definition to your sound. Turning the control through to its maximum has the effect of boosting both the low and high-frequency content.
- 5 Controls the boost and cut of the low-frequency response of the pre-amplifier.
- The seven band graphic equalizer allows you to easily modify your tone and effectively 'see' the response you are getting. There are seven sliders covering a frequency range from 40Hz right through to 6KHz. When the slider is in the central position the signal at that frequency is unaffected or flat. Moving the slider up or down from the centre will Boost or Cut that frequency.
- (7) Controls the boost and cut of the high-frequency response of the pre-amplifier.
- 8 Allows the on-board limiter to be defeated if desired. With the switch in the out position the limiter is engaged. The limiter is automatically triggered at high-output levels and is designed to prevent power-amp distortion at high-output levels. When the limiter is automatically triggered the LED lights up to indicate the limiter is active. It is possible to have the limiter engaged but not have the LED active. The limiter monitors both power-amp clipping and speaker load so it automatically registers the cabinet-impedance and sets itself accordingly.
- (9) Sets the overall listening level of the amplifier.
- (10) AUX IN provided for connecting an external sound source such as; CD players, MP3 players etc.
- XLR socket for direct-injection of the amplifier signal to a mixing-desk or additional power-amplifier. The XLR socket provides a balanced low-impedance output-signal from the pre-amplifier taken before any tone correction.
- (12) Activates the on board high frequency horn.
- 13 Indicates power is connected and the amplifier is switched on.



Always switch off and disconnect power cord when not in use.

REAR PANEL CONTROLS



- Voltage Selection Switch: This is factory set to the correct voltage for the region the product is supplied to. If necessary it can be reset by removing the mains lead and then loosening (but not removing) the screws securing the cover. The cover can then be pivoted away from the switch which can be moved to select the alternate voltage. DO NOT reconnect the mains lead until the cover is replaced and secured. Please ensure the correct fuse is fitted (as printed on the panel) for the voltage being used.
- (2) Power inlet socket. Connect to your power source. Make sure the specified voltage is correct for your country!
- (3) The main safety fuse for the unit is inside this drawer.

USE ONLYTHE CORRECT SIZE AND RATING OF FUSE AS SPECIFIED ON THE PANEL.

Mains Power Switch.

- 4 Information area relating to the amplifier: Serial Number, Fuse Type & Rating etc
- This socket should be used to connect an extension-cabinet, (we recommend an R115 or R410). The impedance of the extension-cabinet must not be less than 8 Ohms. Connecting cabinets having a lower impedance than 8 Ohms will result in the amplifier overheating. Continual use in this manner may cause permanent damage. Connecting a cabinet with an impedance of greater than 8 Ohms will cause no damage to the amplifier, but will result in a reduced output level. (When using an extension cabinet the internal speaker remains connected)

- (6) Send and Return sockets are provided for connecting external effects-units. You can also use the Send socket as a line out if you wish.
- Socket for connecting external tuner. This output is taken before any processing so the Volume control may be turned down for silent tuning.



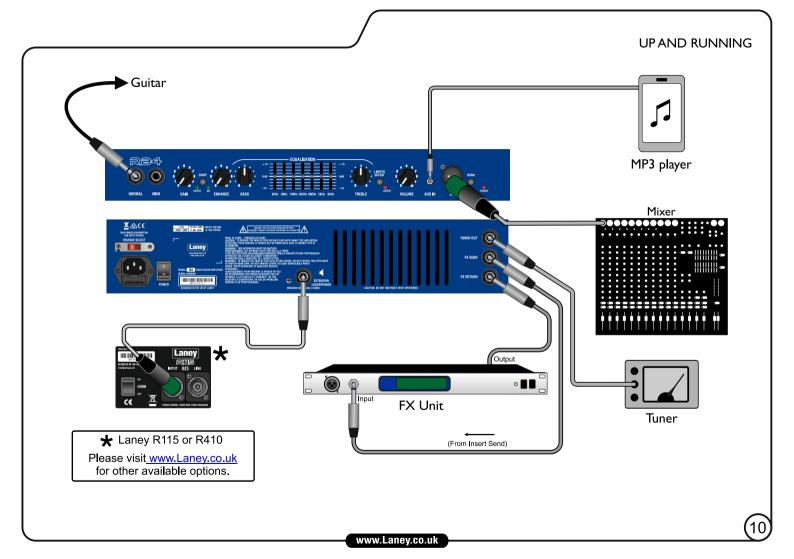
Amplifier connection: In order to avoid damage, it is advisable to establish and follow a pattern for turning on and off your equipment. With all system parts connected, turn on source equipment, tape decks, cd players, mixers, effects processors etc. BEFORE turning on your Bass Amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your Bass Amplifier LAST and making sure its Volume control is set to minimum any transients from other equipment will not reach your loudspeakers. Wait until all system parts have stabilised; usually a couple of seconds. Similarly when turning off your system always turn down the Volume control on your Bass Amplifier and then turn off its power before turning off other equipment.



Cables: Never use shielded or microphone cable for any speaker connections as this will not be substantial enough to handle the amplifier load and could cause damage to your amplifier system.

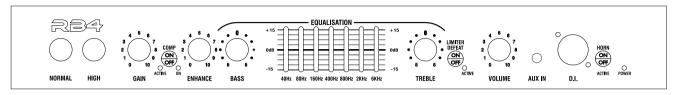
Servicing: The user should not attempt to service these products. Refer all servicing to qualified service personnel.

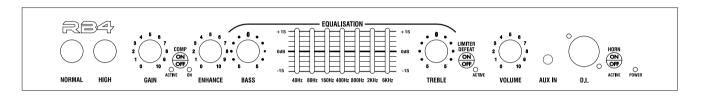
BLOCK DIAGRAMS AUX IN (3.5MM) TUNER OUT This loop is a series type so all your signal will go ON ACTIVE through your FX unit. **EXTERNAL** LOUDSPEAKER INPUTS GAIN COMPRESSOR $\mathbf{\Pi}$ ENHANCE - EQ SECTION SECTION VOLUME POWER D.I. OUT ACTIVE LIMITER DEFEAT INTERNAL LIMITER LOUDSPEAKER SECTION

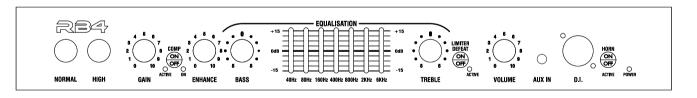


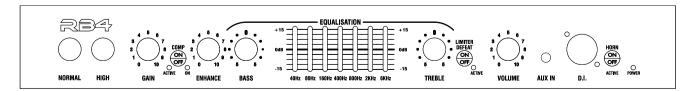
SETTINGS

Found some cool settings you want to keep? Make a note of them here:











Supply Voltage on all models:- Factory Preset		~100V, ~120V, ~220V, ~230V, ~240V 50/60Hz		
Mains Fuse:	~100V	(Factory fit option)		
	~115V	T3.15A L		
	~220V,~230V	T1.6A L		
Power Consump	otion:	200W		
Output Power Rating:		160W		
Loudspeaker:		15" Custom Designed Driver + Switchable HF Horn		
Features:		Normal & Hi Inputs		
		Switchable compressor with Activity Light		
-		Switchable Limiter with status light		
		Gain		
		Enhance		
EQ:		Bass (±12dB at 40Hz, Shelving)		
		7 Band Graphic (±15dB at 40, 80,160,400,800,2K,6K Peaking)		
		Treble (±15dB at 3.5KHz, Shelving)		
D.I:		Balanced XLR		
Aux In:		3.5mm stereo		
Tuner Out:		6.3mm mono		
FX Loop:		Yes - (0dBu Nominal) (Series-Insert)		
Ex. Loudspeake	er Socket:	8 Ohms minimum (internal speaker remains connected)		
Input Impedance	e:	1M Ohm/100pF		
Recommended Min Ex speaker Power:		100W		
Recommended Richter Ex Cabinet:		R115 / R410		
Side Handles:		Yes - Comfortable Contoured Grip		
Size:		553*485*303 (H*W*D)		
Unit Weight:		19.8Kg		
Packed Weight:		21Kg		

FCC Compliancy Statement



This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- I) This device may not cause harmful interference
- 2) This device must accept any interference received, that may cause undesired operation.

Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment. Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures.

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.
- •Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- •Consult the dealer or an experienced radio/TV technician for help.



This product conforms to the requirements of the following European Regulations, Directives & Rules: CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU), RoHS (EU2011/65/EU), ErP (2009/125/EU).



In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.

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USER MANUAL

MODEL NUMBER:	
SERIAL NUMBER:	
PLACE OF PURCHASE:	
DATE OF PURCHASE:	

PLEASE COMPLETE FOR FUTURE REFERENCE





