

R500-115
R500H

Richter Bass

USER MANUAL

www.laney.co.uk



British Engineering from the
Black Country United Kingdom



Dear Player,

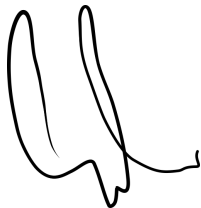
Thank you very much for purchasing your new Laney product and becoming part of the worldwide Laney family. Each and every Laney unit is designed and built with the utmost attention to care and detail, so I trust yours will give you many years of enjoyment.

Laney products have a heritage which stretches back to 1967 when I first began building valve amplifiers in my parent's 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,

A handwritten signature in black ink, appearing to read 'Lyndon Laney', with a stylized flourish at the end.

Lyndon Laney
Chairman & Founder

R500-115 - BASS COMBO

The R500-115 – packs a powerful punch!

Delivering up to 500 Watts of low end growl and mid punch into a 15" custom driver and horn. The R500-115'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 makes controlling your dynamics a breeze and dialing in just the right tone is taken care of with the Bass and Treble controls along with the remote switchable 10 band graphic EQ and finally an Enhance control lets you tweak to your heart contents.

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

The R500-115 is built to stand life on the road, lightweight, rugged construction, tough vinyl covering, easy grab side plus top handles and featuring full protection against load errors. All this means that the R500-115 will handle whatever you throw at it with ease.

Equipped with sturdy NL4 speaker connector you can hook up your favorite cabinet - check out the Laney R115 and R410 cabs.



The R500H - with all the great features of the R500-I 15, but in a highly portable Head format. Built to stand life on the road with its lightweight, rugged all steel construction and what it lacks in size and weight, it more than makes up for in power and tone.





IMPORTANT SAFETY INSTRUCTIONS

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

1. 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.
11. 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 Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

	<p>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.</p> <p>Ce symbole est utilisé pur indiquer à l'utilisateur de ce produit de tension non-isolée dangereuse pouvant être d'intensité suffisante pour constituer un risque de choc électrique.</p> <p>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.</p> <p>Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.</p>
	<p>Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.</p> <p>Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.</p> <p>Este simbolo tiene el proposito de la alertar al usuario de la presencia de instrucccones importantes sobre la operacion y mantenimiento en la literatura que viene conel producto.</p> <p>Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.</p>
<p>CAUTION:</p> <p>ATTENTION:</p> <p>PRECAUCION:</p> <p>VORSICHT:</p>	<p>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.</p> <p>Risques de choc électrique - NE PAS OUVIRIR Afin de reduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve a l'interieur aucune piece pouvant être reparee par l'utilisateur. Confier l'entretien a un personnel qualifie.</p> <p>Riesgo de corrientazo - no abra Para disminuir el riesgo de corrientazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los tecnicos calificados.</p> <p>Risiko - Elektrischer Schlag! Nicht offen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden Konnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.</p>
<p>WARNING:</p> <p>ADVERTISSEMENT:</p> <p>ADVERTENCIA:</p> <p>ACHTUNG:</p>	<p>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.</p> <p>Afin de prevenir les risques de decharge électrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidité. Avant d'utiliser cet appareil, lisez les avertissements supplémentaires situes dans le guide.</p> <p>Para evitar corrientazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de usar este aparato, lea mas advertencias en la guía de operacion.</p> <p>Um einen elektrischen Schalg oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.</p>

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 outlet.

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, pre-delivery 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.

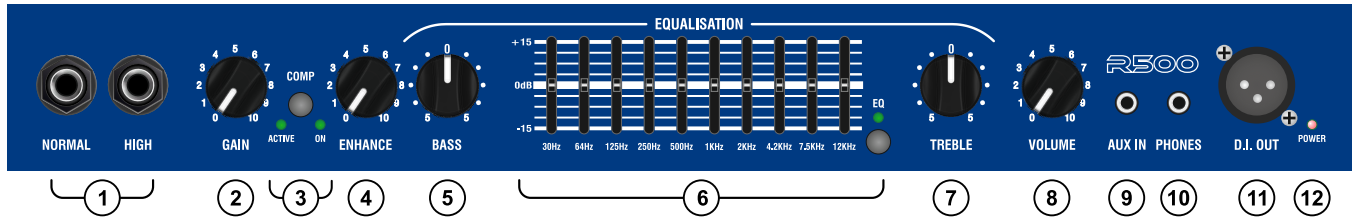
(ii) Connect your instrument with a high quality shielded instrument cable. You have probably spent considerable money on your amplifier and guitar - don't use poor quality cable it won't do your gear justice.

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!

FRONT PANEL CONTROLS

Panel layout and control functions for R500H and R500-115 are the same, so only one model has been shown.



- ① **NORMAL** and **HIGH** inputs are provided for the connection of bass guitars. High output active or passive instruments 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 **GAIN** - 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 **COMP** - engages and dis-engages the on-board compressor giving your guitar a punchier sound. Use this control in conjunction with the Gain control. More gain provides a greater level of compression to the guitar signal. The two LED's indicate the status. One to show when the compressor is enabled, the other which will only illuminate when compression is taking place. With most guitars, compression will begin at about 5-6 on the Gain control.

Tip: It is possible to have the compressor engaged but it only be active during certain periods of playing - typically the most dynamic sections.
- ④ **ENHANCE CONTROL** provides an increased definition at the low and high end of the frequency spectrum from 1 to 5 giving you a tighter, punchier sound. As you approach 6 or 7 on the control, a cut around 200Hz is applied to the signal. As you continue to turn the control towards 10, the mid cut depth increases in conjunction the LF and HF boost.
- ⑤ **BASS** - Controls the boost and cut of the low-frequency response of the pre-amplifier. It is active regardless of the EQ switch settings (6).

7

- ⑥ The 10 band graphic equalizer allows you to easily modify your tone from 30Hz to 12KHz and effectively 'see' the response you are getting. 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/cut around that frequency. Enable or disable the EQ using the adjacent switch, or control remotely. See page 11.

Tip: Use the EQ remote to activate a change in level, tone or both during key parts of your performance. Perhaps that special solo you want people to hear or recreate the brighter sound of plectrum whilst playing when using fingers.

- ⑦ **TREBLE** - Controls the boost and cut of the high-frequency response of the pre-amplifier. Like the Bass control, it is active regardless of the EQ switch setting.
- ⑧ **VOLUME** - Sets the overall listening level of the amplifier and controls PHONES volume.
- ⑨ **AUX IN** - provided for connecting an external sound source such as; CD players, MP3 players etc.
- ⑩ **PHONES** - A 3.5mm stereo jack socket is provided for use with headphones. Adjust the phones level using volume control (8).

Tip: When phones are connected, sound from loudspeaker / speaker output connector will be disabled.

- ⑪ **D.I. OUT** - An XLR socket for direct-injection of the amplifier signal to a mixing-desk. The XLR socket provides a balanced low-impedance output-signal from the pre-amplifier - pre Gain or tone controls. See block diagram page 10.
- ⑫ **POWER** - Indicates power is connected and the amplifier is switched on.

General Notes

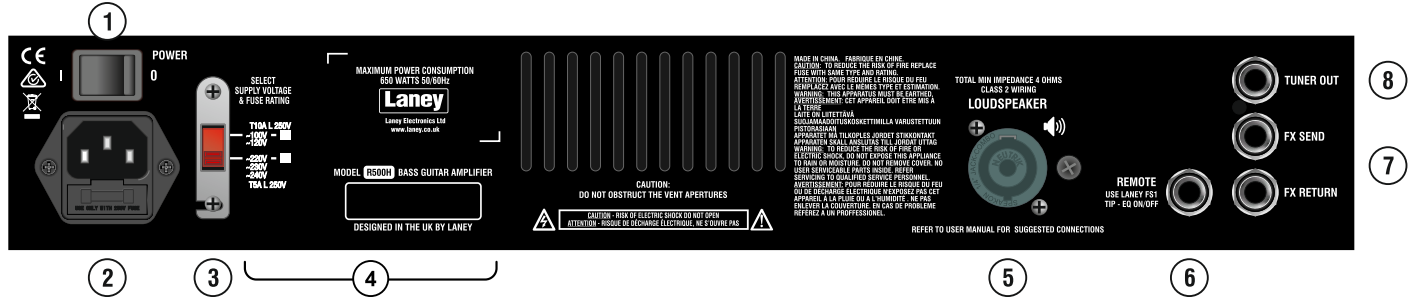
Amplifier connection: In order to avoid damage, it is advisable to establish and follow a pattern for turning on and off your equipment. With all system parts connected, turn on source equipment: CD players, mixers, effects processors etc. BEFORE turning on your Bass Amplifier. Many products have large 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.

REAR PANEL CONTROLS

Panel layout and control functions for R500H and R500-115 are the same, so only one model has been shown.



① Mains **POWER** Switch.

② Power **INLET SOCKET** - Connect to your power source. Make sure the specified voltage is correct for your country!

Tip: The main safety fuse for the unit is inside this drawer.

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

③ **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.

④ Information area relating to the amplifier: Serial Number, Fuse Type and Rating etc.

⑤ **LOUDSPEAKER** - This NL4 socket is used to connect an extension-cabinet.

⚠ R500H - **SPEAKER IMPEDANCE MUST NOT BE LESS THAN 4 OHMS.**

R500-115 - **SPEAKER IMPEDANCE MUST NOT BE LESS THAN 8OHMS** (due to onboard speaker which is always connected).

Impedances greater than those stated above won't damage the amplifier, but will result in a reduced output level.

⚠ Connecting cabinets that have a lower impedance than 4 Ohms will result in the amplifier overheating. Continual use in this manner may cause permanent damage.

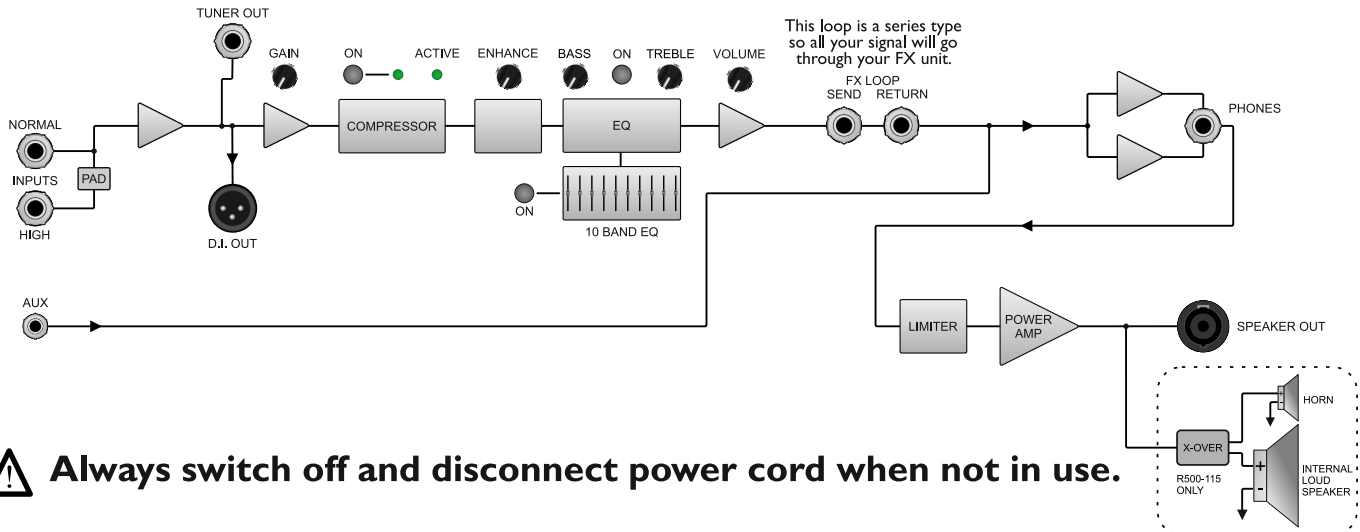
⑥ **REMOTE** - Connect a 1-way footswitch (laney FS-1 recommended) to gain remote access to the onboard 10 band EQ.

Tip: The front panel EQ switch must be enabled in order for the footswitch to work.

⑦ **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.

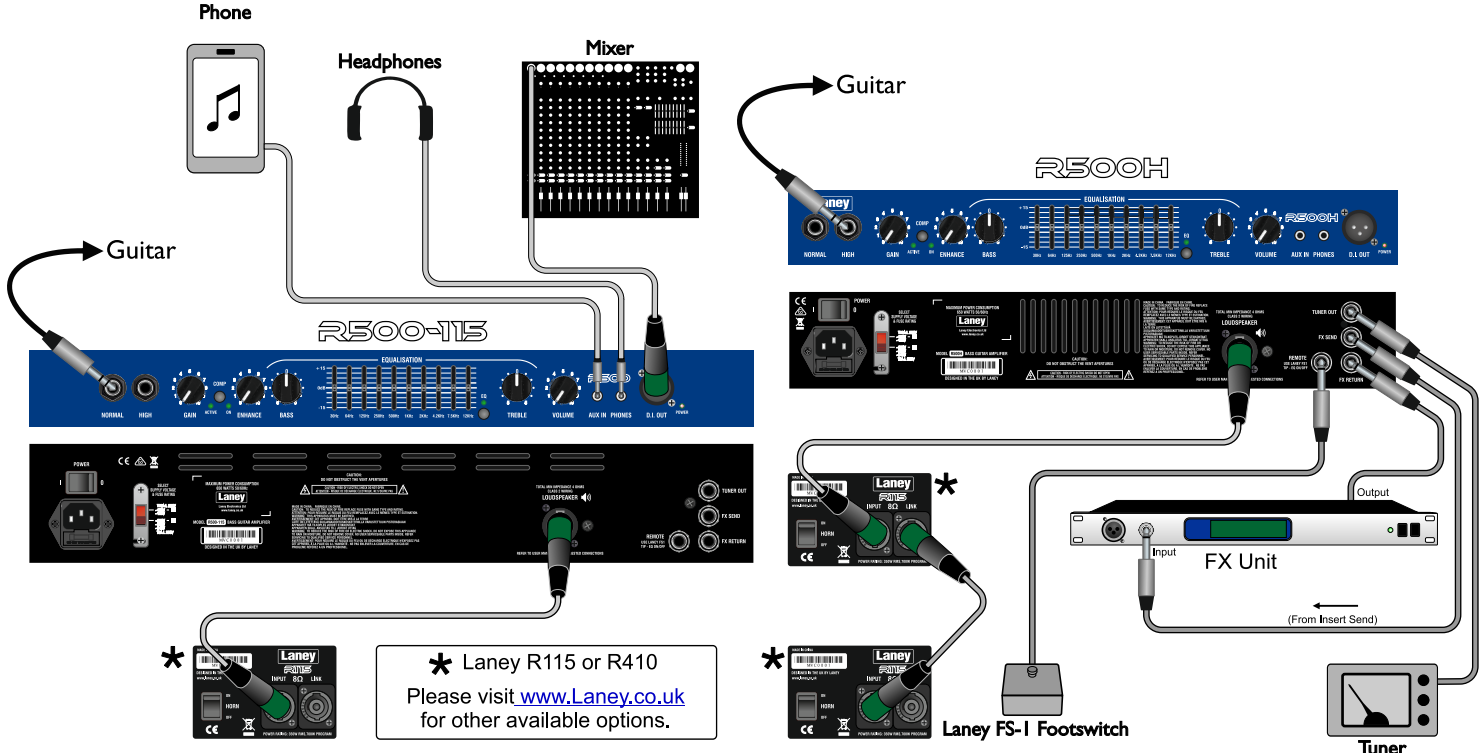
⑧ **TUNER** - The output jack sends an untreated/dry signal to a tuner or DAW system.

BLOCK DIAGRAM



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

UP AND RUNNING



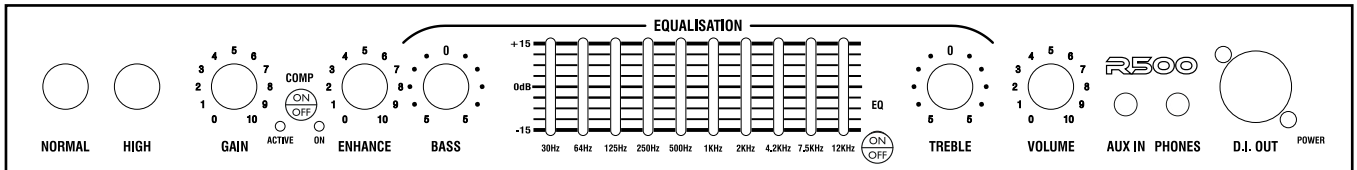
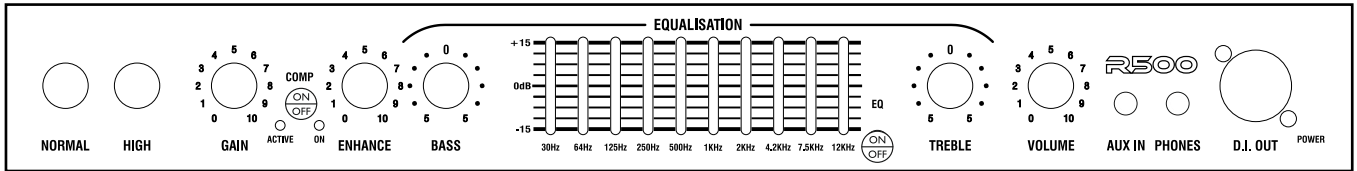
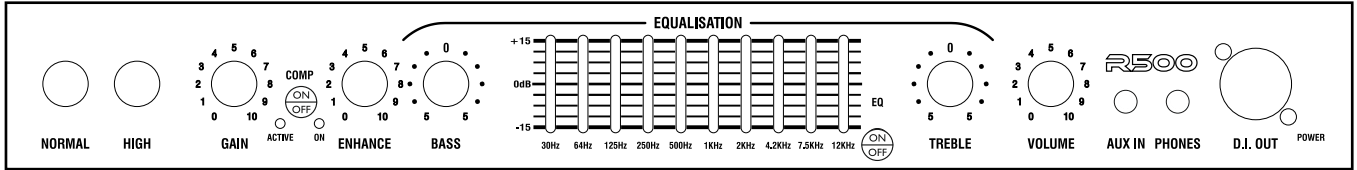
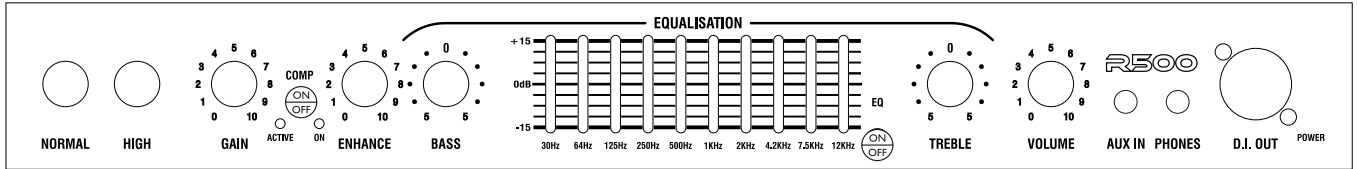
* Laney R115 or R410
 Please visit www.Laney.co.uk
 for other available options.



R500-115 - Can drive 1 x 8 Ohm speaker cabinet in conjunction with its onboard 15" custom driver.
R500H - Can drive up to 2 x 8 Ohm cabinets (parallel connection).



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



SPECIFICATIONS

R500-115	R500H
-----------------	--------------

Supply Voltage:	~100V, ~120V, ~220V, ~230V, ~240V 50/60Hz	~100V, ~120V, ~220V, ~230V, ~240V 50/60Hz
Mains Fuse:	T10A L 250V T5A L 250V	T10A L 250V T5A L 250V
Power Consumption:	650W	650W
Output Power Rating:	500W into 4 Ohms	500W into 4 Ohms
Loudspeaker and tweeter:	15" Custom designed woofer + horn	NA
Features:	Normal & Hi Inputs	Normal & Hi Inputs
	Switchable compressor with activity light	Switchable compressor with activity light
	Gain	Gain
	Enhance	Enhance
	Volume	Volume
EQ:	Bass (±12dB at 40Hz, Shelving)	Bass (±12dB at 40Hz, Shelving)
	10 Band Graphic - (±15dB at 30,64,125,250,500,1K,2K,4.2K,7.5K,12K Peaking) Front panel and remote switchable - Laney FS1 footswitch recommended	10 Band Graphic - (±15dB at 30,64,125,250,500,1K,2K,4.2K,7.5K,12K Peaking) Front panel and remote switchable - Laney FS1 footswitch recommended
	Treble (±15dB at 3.5KHz, Shelving)	Treble (±15dB at 3.5KHz, Shelving)
D.I.:	Balanced XLR	Balanced XLR
Aux In:	3.5mm stereo	3.5mm stereo
Phones Out:	3.5mm stereo	3.5mm stereo
Tuner Out:	6.3mm mono	6.3mm mono
FX Loop:	Series Insert	Series-Insert
Ex. Loudspeaker Socket:	8 Ohms minimum, internal speaker remains connected	4 Ohms minimum
Input Impedance:	1M Ohm/100pF	1M Ohm/100pF
Recommended Richter Ex Cabinet:	R115 / R410	R115 / R410
Handles:	Comfortable Contoured Grip side handle + top handle	NA
Unit dimensions/weight:	563*523*365 (H*W*D) 23.6Kg	74*410*211 (H*W*D) 4.1Kg
Packed dimensions/weight:	633*585*425 (H*W*D) 25.6Kg	128*547*242 (H*W*D) 4.6Kg

FCC Compliancy Statement



This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- 1) 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.

Speakon is a trademark of Neutrik®AG.



Model number:

Serial number:

Place of purchase:

Date of purchase:

Please complete for future reference.



www.laney.co.uk

Revision 1.01

#LOVEMUSIC **LOVELANEY**