



BLACK COUNTRY CUSTOMS™

HANDCRAFTED IN THE UK



# TI100 USER MANUAL

## **CONTENTS**

INTRODUCTION.....	2
FRONT CONTROLS.....	3
1. INPUT .....	3
2. PRE-BOOST.....	3
3. DRIVE .....	3
4. EQ CONTROLS.....	3
5. VOLUME .....	3
6. ENHANCE .....	3
7. PRESENCE.....	3
8. CHANNEL SWITCH .....	4
9. STANDBY SWITCH.....	4
10. POWER SWITCH .....	4
REAR FEATURES .....	5
1. MAINS INLET SOCKET .....	5
2. HT FUSE.....	5
3. BIAS SWITCH .....	5
4. POWER AMP IN/PREAMP OUT.....	5
5. FX LOOP.....	6
6. FOOTSWITCH.....	6
7. SYM LINK.....	6
8. LOUDSPEAKER CONNECTIONS.....	6
CONNECTIONS.....	7
QUICK START SETTING .....	8
USER SETTINGS .....	9
BLOCK DIAGRAM .....	10
SPECIFICATIONS.....	11
SAFETY AND WARNINGS .....	12

## INTRODUCTION

TI100 limited edition reissue from Black Country Customs.

*“It began with rain squall, and I clap of thunder and a bell tolling in the distance. Then the sound of a super distorted diminished fifth interval – an interval once banned by the roman catholic church – the devils interval. Then, from beyond the grave a voice wails “what is this that stands before me”  
.... And music was never the same again.*

The band were BLACK SABBATH; the track was the first track of the bands first release. The Guitar player was Tony Iommi and the sound of that super distorted diminished fifth interval was the sound of a Laney amp – an LA100BL.

Since that monumental day Laney association with Tony Iommi as gone from strength to strength resulting in the launch of his first signature model – the GH100TI, originally called the GH100S over 30 years ago and culminating with the amazing TI100 which Tony used on the “13” tour. Tony went back to his roots on “The End” tour using re-issues of his 1969 LA100BL heads.

We are extremely proud of our association with Tony Iommi and very happy launch a faithful reissue of his legendary signature amp, the Laney TI100.

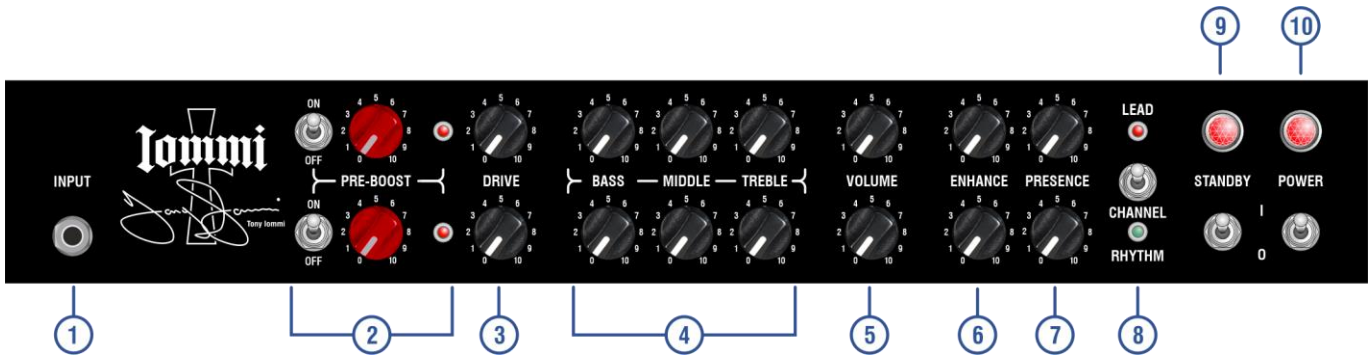
Handcrafted in our UK workshop - Black Country Customs - this reissue TI100 features 100 watts RMS, 8 x ECC83 loaded preamp and a 4 x 6L6 output section. Twin footswitchable channels, footswitchable PRE-BOOST on each channel, 3 band EQ, Volume, Enhance and Presence. All finished off with Tony’s trademark cross livery and to top it all – it glows red!

There are very few chances in life to claim a first.

In the case of the global phenomena that is heavy metal – the first heavy metal tone was crafted by Tony Iommi and powered by Laney.

Black Sabbath – it started with Laney, and it ends with Laney.

## FRONT CONTROLS



The T1100 contains two preamp channels, LEAD & RHYTHM; both can have different settings and be switched between with the channel switch (8) or footswitch if connected. Although the functions of the controls on each channel are similar, the sounds can be very different.

### 1. INPUT

1/4" mono jack socket. Connect your guitar here. Use only a good quality instrument cable.

### 2. PRE-BOOST

Controls the level of boost applied to the guitar signal with independent switches per channel. The Pre-Boost circuit increases the input signal to the preamp tubes, just like placing a boost pedal in your signal path. This drives the preamp tubes harder, resulting in more distortion. This LED will illuminate when the Pre-Boost controls are activated.

### 3. DRIVE

Controls the level of preamp distortion on the channel. Turning this control clockwise will add more distortion to your guitar signal, ranging from light overdrive, to full on metal. Use this in conjunction with the [5](#). to achieve the correct volume and distortion level you require.

### 4. EQ CONTROLS

These are a traditional set of passive tone controls. Passive controls have the advantage of always sounding musical at any of their settings, due to their unique interactive nature. This gives the player a more natural set of tools to shape their ideal sound. Set these midway at (5) as a good starting point.

### 5. VOLUME

Controls the volume of each channel. Experiment with different combinations of the Drive and Volume controls to achieve different sounds. Reducing the Drive while increasing the Volume will result in a warm, open, overdriven sound as the power amp is driven harder, while reducing the Volume and increasing the Drive will give a tighter, more modern sound with more distortion. Once set, try using your guitar's volume controls to interactively adjust tone and distortion levels.

### 6. ENHANCE

This allows control over the response of the amplifier at lower frequencies. Turning this control clockwise gives a looser low end, while lower settings provide a tighter response. The optimum setting is dependent on the speaker cabinet used.

### 7. PRESENCE

An output stage tone control. This adjusts the high frequency from being dull to giving it edge/sounding sparkly.

## 8. CHANNEL SWITCH

Switches between the Lead and Rhythm channels, the LED lights on the active channel.

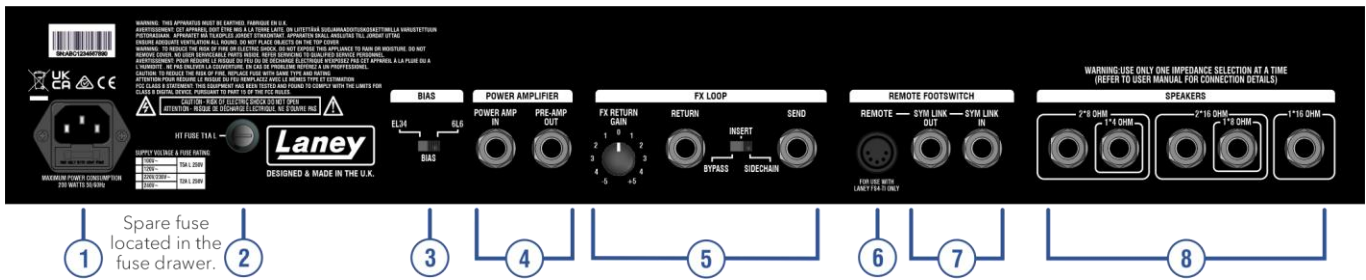
## 9. STANDBY SWITCH

Disconnects the main HT voltage from the tubes but keeps the tubes warm so that they are ready to play instantly. Switch for short breaks when you don't want to wait for the tubes to warm up again. With the switch in the 1 (up) position, the amp is in play mode, while 0 (down) allows the amp to warm up. The lamp will illuminate when the amplifier is in play mode.

## 10. POWER SWITCH

Main power switch for the unit. Tube amplifiers take between 30 seconds to 2 minutes to warm up and be ready to play after switching on, this is normal. Use in conjunction with the standby switch to prolong tube life. To turn on, flip the switch to 1 (up). The lamp will illuminate when the power switch is operated, indicating the presence of mains power within the amplifier.

## REAR FEATURES



### 1. MAINS INLET SOCKET

Make sure the voltage indicated on the rear panel is correct for your country. The voltage is preset at the factory. The drawer contains the main safety fuse for the unit. The fuse protects the amplifier from damage in the event of fault by disconnecting the mains power supply. A spare is included inside.

### 2. HT FUSE

This fuse disconnects the high voltage DC power to the tubes within the amplifier in the event of a tube fault.

### Replacing fuses - USE ONLY THE CORRECT SIZE AND RATING SPECIFIED ON THE PANEL.

Using a fuse that is too large in current rating may cause serious, irreparable damage to the amplifier and presents a serious fire hazard. The fuse ratings are detailed in the Specifications section of this manual, as well as printed on the rear of the amplifier. Fuses are designed to protect, do not take chances.

### 3. BIAS SWITCH

This allows the use of either 6L6 or EL34 output tubes in your amplifier. Ensure that the switch is in the correct position for your output tubes, otherwise you may risk damaging your amplifier. The T1100 is factory fitted with 4x matched 6L6 tubes. We recommend the use of matched sets of output tubes for optimum performance.

### 4. POWER AMP IN/PREAMP OUT

The Preamp out socket provides a line level signal immediately prior to the power amplifier. This can be for driving other amplifiers, mixing desks etc and is useful in multi-amp setups where a single preamp can drive several power stages. The line out is an (unbalanced) line level output.

The Power Amp in socket provides the user with an input to the power amplifier stage. When a Jack is connected to the Line In socket the preamp signal is bypassed.

## 5. FX LOOP

FX Loop for connected external devices. The FX SEND 1/4" mono jack socket should be connected to the input of an external FX unit. This can also be used as a line out for connection to another power amp slave input or for recording. The FX RETURN connects to the output from your external effects. It is switchable between insert, side chain and bypass modes.

- **SIDE CHAIN:**

The return signal is mixed with the dry send signal; the level of FX return is controlled by the FX return level control. This allows you to set the right mix between the dry signal and the effects signal. Use Side chain mode for FX units such as delays, flangers etc where a direct signal path is maintained internally to avoid loss of dynamics through the external FX processor. When using this mode the external FX processor should be switched to 'effect only mode'. The Effects Loop Gain will function as a mix control. Setting it to minimum will result in no output from the amplifier. A good normal level for this control is '5' which is approximately unity gain.

- **INSERT:**

The return signal is buffered and sent directly to the output tubes, no mixing with the dry signal happens. The wet/dry mix is adjusted within the external FX processor. The FX return level control then acts as overall level control allowing you to make up for any insertion loss that may occur in the FX processor. Use this mode when the whole of the amplifier signal needs routing through any external processors such as graphic EQs etc. The Effects Loop Gain will function as an overall level control.

- **BYPASS:**

The global FX loop circuitry is switched out of circuit altogether.

## 6. FOOTSWITCH

The TI100 is equipped with a 5 pin DIN socket for connection to the supplied FS4-TI footswitch, allowing remote operation of the following functions: Channel, Lead Boost on/off & Rhythm Boost on/off.

## 7. SYM LINK

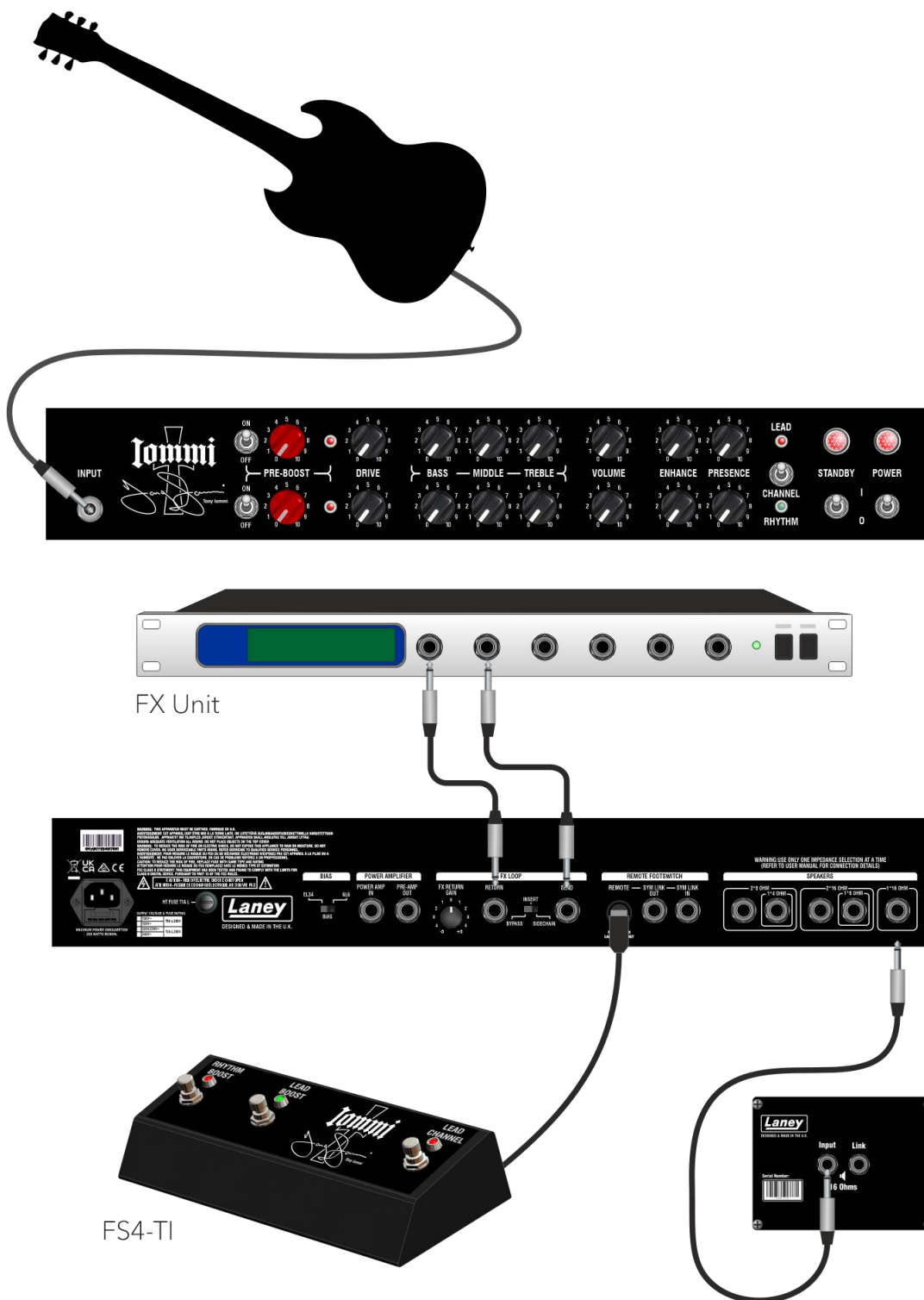
Link sockets are used when connecting two or more amplifiers together with a single master amplifier. The connection ensures that the slave amplifiers change channels synchronised to the master amplifier. This enables the Presence and Enhance controls on the slave amplifiers to be synchronised with the master amplifier. SYM LINK OUT should connect to the next amplifiers SYM LINK IN.

## 8. LOUDSPEAKER CONNECTIONS

Five 1/4" mono jack sockets are provided for the connection of a variety of speaker cabinets. Mismatching your speaker impedance will reduce the performance of your amplifier, and in extreme cases may damage the unit. Sockets are provided for 1x4 Ohm, 1x8 Ohm, 2x8 Ohm, 1x16 Ohm, 2x16 Ohm.

**Never operate any tube amplifier without a load connected: serious irreparable damage may occur.**

# CONNECTIONS



FS4-TI

# QUICK START SETTING

TONY'S TYPICAL SETTINGS

USE EITHER CHANNEL

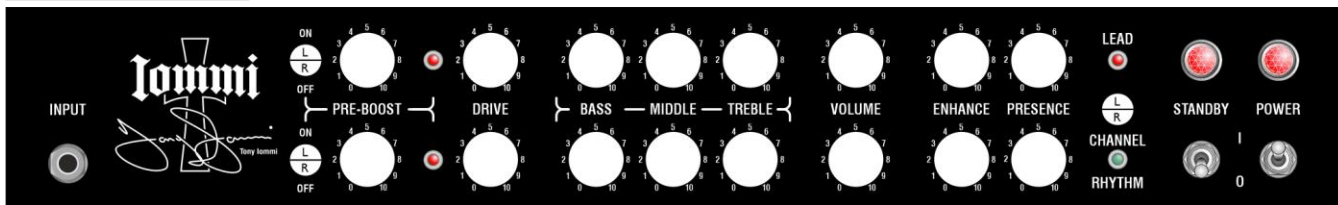
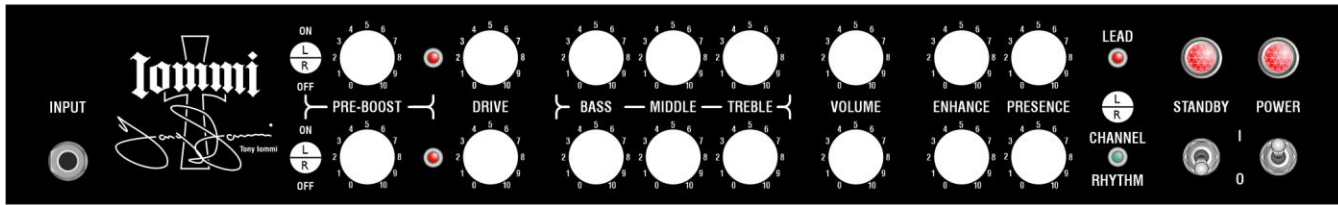
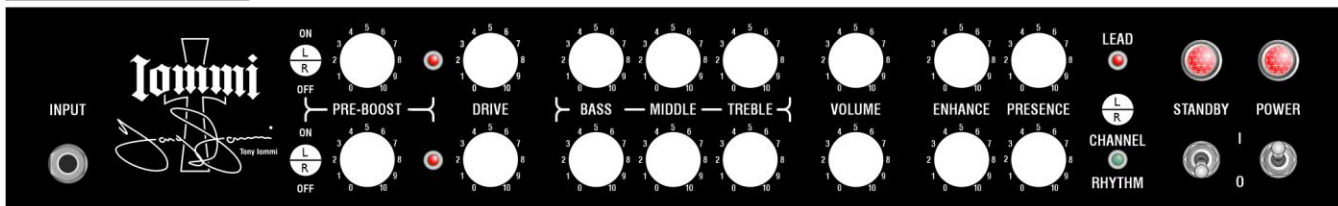
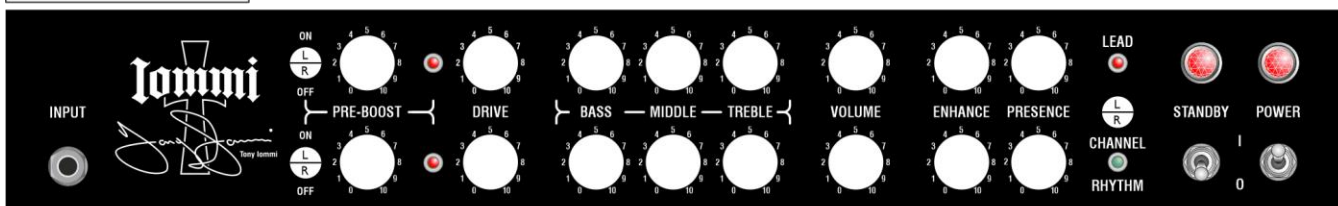
CLEAN

CRUNCH

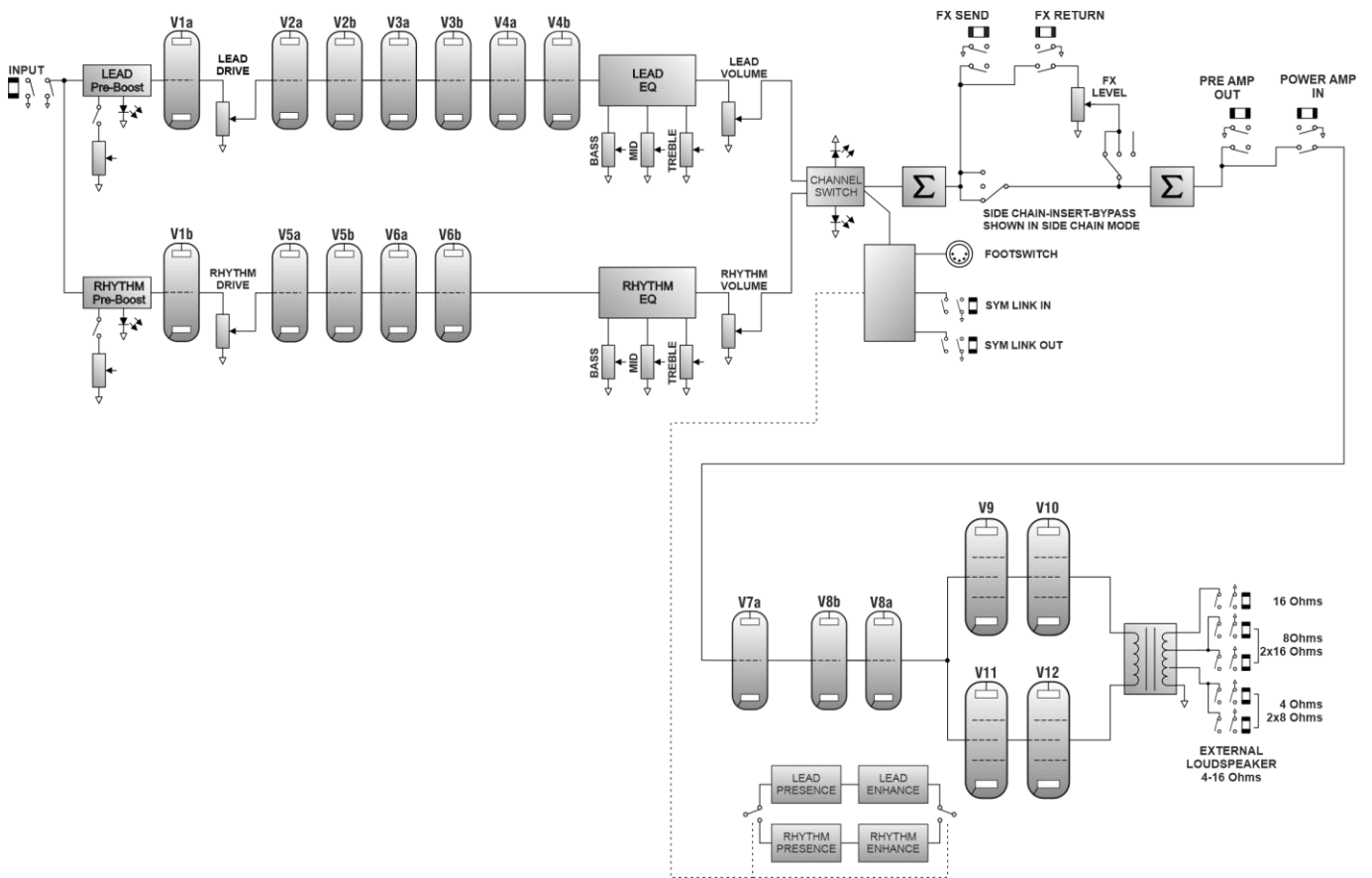
LEAD

VOLUME AS DESIRED

# USER SETTINGS



# BLOCK DIAGRAM



## SPECIFICATIONS

**Error! Not a valid link.**

*In the interest of continued development, Laney reserves the right to amend product specification without prior notification.*







## SAFETY AND WARNINGS

To take full advantage of your new product and enjoy long and trouble-free performance, please read this owner's manual carefully, and keep it in a safe place for future reference.

MANUFACTURER: HEADSTOCK DISTRIBUTION LTD. STEELPARK ROAD,  
COOMBS WOOD BUSINESS PARK WEST, HALESOWEN, B62 8HD, UK

- 1) Unpacking: On unpacking your product, please check carefully for any signs of damage that may have occurred whilst in transit from the Laney factory to your dealer. In the unlikely event that there has been damage, please re-pack your unit in its original carton and consult your dealer. We strongly advise you to keep your original transit carton, since in the unlikely event that your unit should develop a fault, you will be able to return it to your dealer for rectification securely packed.
- 2) Amplifier Connection: To avoid damage, generally it is advisable to establish and follow a pattern for turning on and off your system. With all system parts connected, turn on source equipment, mixers, effects processors etc, BEFORE turning on your amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loudspeakers. Wait till all system parts have stabilised, usually a couple of seconds. Similarly, when turning off your system always turn down the level controls on your amplifier and then turn off its power before turning off other equipment.
- 3) 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 complete system. Use good quality shielded cables everywhere else.
- 4) Servicing: The user should not attempt to service these products. Refer all servicing to qualified service personnel.
- 5) Heed all warnings.
- 6) Follow all instructions.
- 7) Do not use this apparatus near water.
- 8) Clean only with a dry cloth.
- 9) Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
- 10) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 11) 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.
- 12) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
- 13) Only use attachments/accessories provided by the manufacturer.
- 14) 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.
- 15) 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.
- 16) 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.
- 17) 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.
- 18) If this product is to be mounted in an equipment rack, rear support should be provided.
- 19) 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:
  - o 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.
  - o The wire that is coloured blue must be connected to the terminal that is marked with the letter N or the colour black.
  - o The wire that is coloured brown must be connected to the terminal that is marked with the letter L or the colour red.
- 20) 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.
- 21) 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 more than 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 to prevent a permanent hearing loss, if exposure is more than 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. In the EU, exposure is regulated under Directive 2003/10/EC. Prolonged exposure above 85 dB(A) can cause hearing damage. Hearing protection must be used when operating equipment capable of producing high sound pressure levels.
- 22) If your appliance features a tilting mechanism or a kickback style cabinet, please use this design feature with caution. Due to the ease with which the amplifier can be moved between straight and tilted back positions, only use the amplifier on a level, stable surface. DO NOT operate the amplifier on a desk, table, shelf or otherwise unsuitable non-stable platform.
- 23) Symbols & nomenclature used on the product and in the product manuals, intended to alert the operator to areas where extra caution may be necessary, are as follows:

Duration Per Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ ou inférieur	115

 <p><b>CAUTION:</b></p>	<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 a 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 símbolo tiene el propósito 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><b>WARNING:</b></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>Destiné à alerter l'utilisateur de la présence d'instructions importantes d'exploitation et de maintenance (entretien) dans la documentation accompagnant le produit.</p> <p>Este símbolo tiene el propósito de la alertar al usuario de las presencias de instrucciones importantes sobre la operación y mantenimiento en la literatura que viene con el 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 réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve a l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confier l'entretien a un personnel qualifié.</p> <p>Riesgo de descarga eléctrica - NO ABRIR. Para reducir el riesgo de descarga eléctrica, no quite la cubierta. No hay piezas reparables por el usuario en el interior. Remita el servicio a personal calificado.</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 vor 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 prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidité. Avant d'utiliser cet appareil, lisez les avertissements supplantais situes dans le guide.</p> <p>Para evitar descargas eléctricas o peligro de incendio, no exponga este aparato a la lluvia ni a la humedad. Antes de usar este aparato, lea las instrucciones de funcionamiento para conocer más advertencias.</p> <p>Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.</p>
	<p>This device complies with Part 15 of the FCC rules Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"> <li>1) This device may not cause harmful interference.</li> <li>2) This device must accept any interference received, that may cause undesired operation.</li> </ol> <p>Warning: Changes or modification to the equipment not approved by Laney can void the user's authority to use the equipment.</p> <p>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.</p>
	<p>This product conforms to the requirements of the following European Regulations, Directives &amp; Rules: CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU), RoHS (2011/65/EU), ErP (2009/125/EU)</p> <p>SIMPLIFIED EU DECLARATION OF CONFORMITY</p> <p>Full text of the EU declaration of conformity is available at the following internet address:</p> <p><a href="http://support.laney.co.uk/approvals">http://support.laney.co.uk/approvals</a></p>
	<p>The object of the declaration described above is in conformity with the relevant statutory requirement Electrical Equipment (Safety) Regulations 2016, Electromagnetic Compatibility Regulations 2016, The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, The Ecodesign for Energy-Related Products and Energy Information, (Amendment) (EU Exit) Regulations 2012</p>
	<p>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.</p>

# BLACK COUNTRY CUSTOMS

HANDCRAFTED IN THE UK



LANEY AMPLIFICATION

STEELPARK ROAD, COOMBSWOOD BUSINESS PARK WEST, HALESOWEN, B62 8HD. UK  
FOR THE LATEST INFORMATION PLEASE VISIT [WWW.LANEY.CO.UK](http://WWW.LANEY.CO.UK)

IN THE INTEREST OF CONTINUED DEVELOPMENT, LANEY RESERVES THE RIGHT TO AMEND  
PRODUCT SPECIFICATION WITHOUT PRIOR NOTIFICATION.