

# Laney

## HardCore<sub>max</sub>

**HCM160B  
USER MANUAL**

[www.laney.co.uk](http://www.laney.co.uk)



Intended to alert the user to the presence of uninstalled "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**Caution:** Risk of electrical shock - DO NOT OPEN!

**Caution:** To reduce the risk of electrical shock, do not remove cover. No user servicable parts inside. Refer servicing to qualified service personnel.

**WARNING:** To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, read the operating guide for further warnings.

This apparatus must be earthed.

**EMC warning**

It is inherent in the design of a loudspeaker and in the design of guitar pickups that they should emit or be affected by electro magnetic fields. Loudspeaker enclosures should not be used less than two meters away from equipment, which is likely to be affected by electro magnetic interference.

Likewise, guitar fitted with electro magnetic pickups should not be used less than two meters away from any source of emissions such as loudspeakers. Emissions from loudspeakers are dependent on the frequency characteristics of the drive unit. Levels were measured direct from the driver of 30 dBuV. These levels are reduced to a safe level at a distance of 1,27 meters from the drivers.

**IMPORTANT SAFETY INSTRUCTIONS**

**WARNING:** When using electric products, basic cautions should always be followed, including the following.

1. Read all safety and operating instructions before using this product
2. All safety and operating instructions should be retained for future reference
3. Obey all cautions in the Operating instructions and on the back of the unit
4. All operating instructions should be followed
5. This product should not be used near water, i.e. a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built up enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as stove, radiator, or another heat producing amplifier.
8. Connect only to a power supply of the type marker on the unit adjacent to the power supply cord.
9. Never break off the ground pin on a power supply cord.
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for cuts or signs of stress, especially at the plug and the point where the chord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. If this product is to be mounted in an equipment rack, rear support should be provided.
13. Metal parts can be cleaned with a damp cloth. The vinyl covering used on some units can be cleaned with a damp cloth or ammonia based household cleaner if necessary. Disconnect the unit from the power supply before cleaning.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through any ventilation holes or openings. CAUTION - on no account place drinks on the unit.
15. A qualified service technician should check the unit if:
  - The power cord has been damaged
  - Anything has fallen or spilled into the unit
  - The unit does not appear to operate correctly
  - The unit has been dropped or the enclosure damaged.
16. The user should not attempt to service the equipment. All service work is done by a qualified service technician.
17. 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 exposure.

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 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors in 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 exceeds the limits 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.

**SAVE THESE INSTRUCTIONS**

## INTRODUCTION

Congratulations on your decision to purchase a Laney amplifier.

Laney products are designed with ease of operation as a primary objective, however to ensure you derive the best from your new amplifier, it is important you take time to read this user manual and to familiarise yourself with the control functions and facilities available

## BEFORE SWITCHING ON

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**

This manual has been written for easy access of information. The front and rear panels of each unit 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, as well as burn in.

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

- (i) Ensure that the amplifier is set at the correct voltage for the country it is to be used in.
- (ii) Connect your instrument with a high quality instrument cable. Use of cheap cables will compromise the sound of your instrument and your amplifier.

If there is a problem with your Laney amplifier

**DON'T**



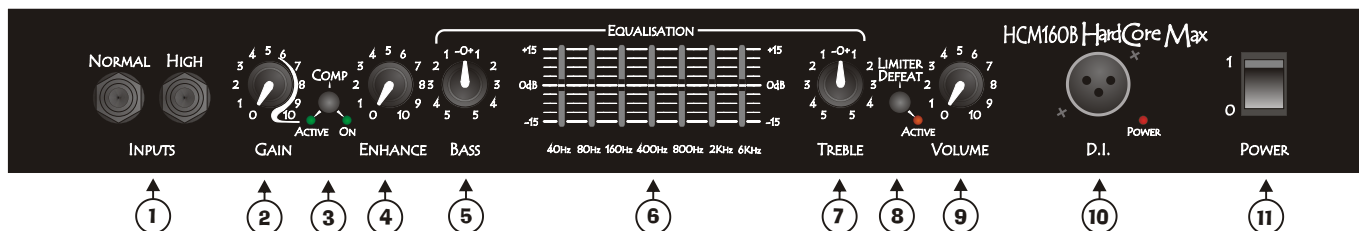
**DO**



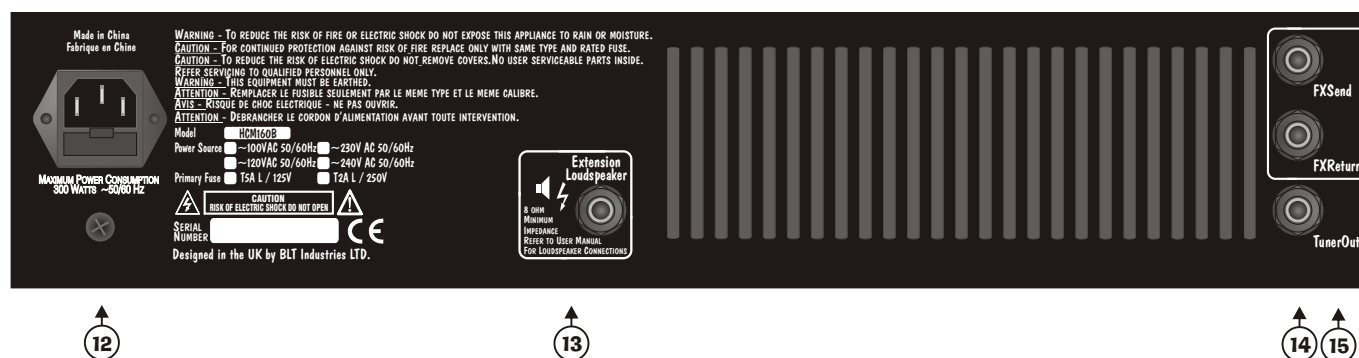
**PHONE YOUR DEALER!**

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

### HCM160B Front Panel

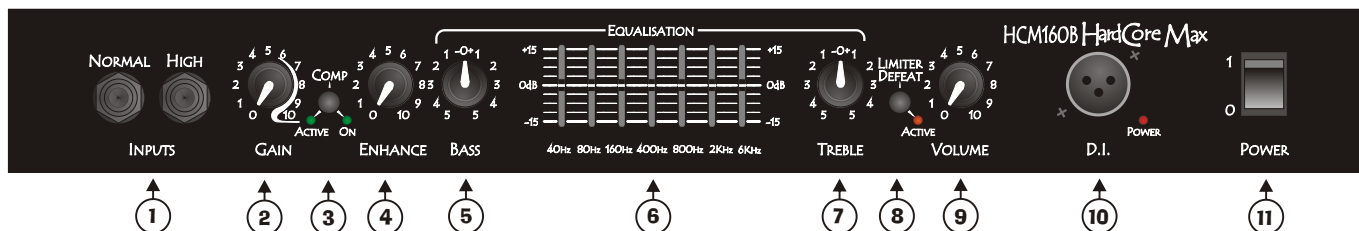


### HCM160B Rear Panel

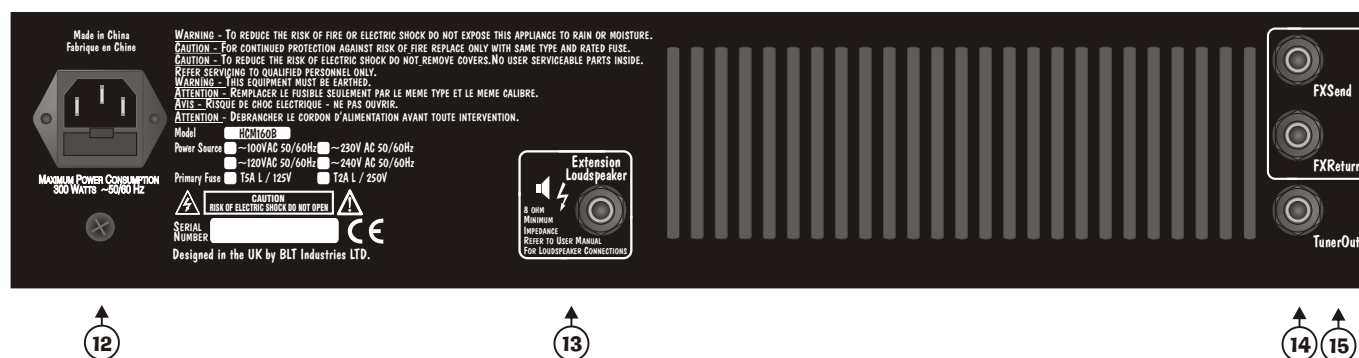


- ① **INPUTS:** Normal and High inputs are provided for connection of bass guitars. High output basses, either Active or Passive should be connected via the High socket. Low output basses should be connected using the normal input. High output basses may also be placed in the Normal input if pre-amp overloading is desired.
- ② **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 (9) to produce the desired signal characteristics.
- ③ **COMPRESSOR SWITCH:** Engages and disengages the on-board compressor. This compresses the input-signal giving a punchier sound. In association with the compressor are two LED's, one indicating that the compressor is engaged and one indicating the compressor is active. 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:** 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 200hz. This dip eliminates some of the secondary-harmonics of the important low-frequencies around 40-80 Hz producing a thicker sound. Turning the control through to its maximum has the effect of boosting both the low and high-frequency content of the signal whilst not effecting the mids.
- ⑤ **BASS:** Controls the low-frequency response of the pre-amplifier
- ⑥ **GRAPHIC EQ:** The 7-band onboard GRAPHIC-EQ allows extensive tonal-shaping to be achieved. With the sliders along the centerline the GRAPHIC-EQ will exert a flat signal-response; it is at this point that individual frequency-bands can be cut or boosted. Moving the slider beneath the centerline will incur a frequency-cut; conversely, pushing the slider above the centerline facilitates frequency-boost. As a general rule, avoid extreme settings of the sliders: try to set the GRAPHIC with as little cut or boost as possible.

### HCM160B Front Panel



### HCM160B Rear Panel



- ⑦ **TREBLE:** Controls the high-frequency response of the pre-amplifier.
- ⑧ **LIMITER SWITCH:** 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 an 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 load so it automatically registers the cabinet-impedance and sets itself accordingly.
- ⑨ **VOLUME :** Sets the overall listening level of the amplifier.
- ⑩ **D.I:** XLR socket for direct-injection of the amplifier signal to a mixing-desk or additional power-amplifier. The XLR socket provides a low-impedance balanced output-signal.
- ⑪ **POWER SWITCH.**
- ⑫ **POWER SOCKET:** Socket for connecting mains power. Please note that the mains power fuse is also located here. Replace only with same type and rating..
- ⑬ **EXTENSION SPEAKER SOCKET:** This socket(s) should be used to connect an extension-cabinet. The impedance of the extension-cabinet must not be less than 8 Ohms. Connecting cabinets that have 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.
- ⑭ **TUNER SOCKET:** Socket for connecting external tuner.
- ⑮ **FX LOOP:** Send and return sockets are provided for connecting external effects-units.

# Laney

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**In the interest of continuing product development BLT Industries reserves the right to change specification without prior notice.**