

# BLACK COUNTRY CUSTOMS™

HANDCRAFTED IN THE UK



LA100SM MANUAL

## PHILOSOPHY

Every Black Country Customs product is built with the highest attention to detail and extensively play tested during its build process by a small group of dedicated players with many years of experience honing tone.

Black Country Custom products only use the best materials and build techniques with the aim from the outset to produce the perfect sound. This includes loudspeakers which are hand selected from each application, to deliver outstanding tonal quality. The speakers we select are often handmade, using vintage style materials which are acknowledged to give the best guitar sounds available. All speakers and in particular handmade speakers require several hours playing before they are broken in and producing their optimum sound.

The result of this attention to detail, high quality raw materials and the optimum build techniques are quite simply the best sounding amplifiers and cabinets available.

We are sure you will agree.

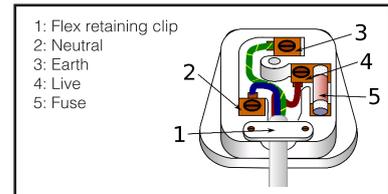
**IMPORTANT SAFETY INSTRUCTIONS**

	Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.
	Risk of electrical shock - <b>DO NOT OPEN.</b> To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified personnel.
<b>CAUTION</b>	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.

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 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.

Table 1

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

### INSTRUCCIONS IMPORTANTES PARA SU SEGURIDAD - ESPAÑOL

CUIDADO: Cuando use productos electrónicos, debe tomar precauciones básicas, incluyendo las siguientes:

1. Lea estas instrucciones.
2. Guarde estas instrucciones.
3. Haga caso de todos los consejos.
4. Siga todas las instrucciones.
5. No usar este aparato cerca del agua.
6. Limpiar solamente con una tela seca.
7. No blacker ninguna de las salidas de ventilación. Instalar de acuerdo a las instrucciones del fabricante.
8. No instalar cerca de ninguna Fuentes de calor come radiators, estufas, hornos u otros aparatos (incluyendo amplificadores) que produzcan calor.
9. Un aparato con la construcción de la clase I será conectado con un enchufe de zócalo de las cañerías con una conexión protectora. No retire la patilla protectora del enchufe polarizado o de tipo "a Tierra". Un enchufe polarizado tiene dos puntas, una de ellas más ancha que la otra. Un enchufe de tipo "a Tierra" tiene dos puntas y una tercera "a Tierra". La punta ancha (la tercera ) se proporciona para su seguridad. Si el enchufe proporcionado no encaja en su enchufe de red, consulte a un electricista para que reemplaze su enchufe obsoleto.
10. Proteja el cable de alimentación para que no sea pisado o pinchado, particularmente en los enchufes, huecos, y los puntos que salen del aparato.
11. Usar solamente añadidos/accesorios proporcionados por el fabricante.
12. Usar solamente un carro, pie, trípode, o soporte especificado por el fabricante, o vendido junto al aparato. Cuando se use un carro, tenga cuidado al mover el conjunto carro/aparato para evitar que se dañe en un vuelco. No suspenda esta caja de ninguna manera
13. Las cañerías tapan o el acoplador de la aplicación se utiliza mientras que el dispositivo de la desconexión y seguirá siendo fácilmente operable. El usuario debe permitir el acceso fácil a cualquier cañería enchufe, a las cañerías acoplador y al interruptor de las cañerías usado conjuntamente con esta unidad así que lo hace fácilmente operable. Desenchufe este aparato durante tormentas del relámpago o cuando es inusitado por períodos del tiempo largos.
14. Para cualquier reparación, acuda a personal de servicio cualificado. Se requieren reparaciones cuando el aparato ha sido dañado de alguna manera, como cuando el cable de alimentación o el enchufe se han dañado, algún líquido ha sido derramado o algún objeto ha caído dentro del aparato, el aparato ha sido expuesto a la lluvia o la humedad, no funciona de manera normal, o ha sufrido una caída.
15. Nunca retire la patilla de Tierra. Conecte el aparato sólo a una fuente de alimentación del tipo marcado al lado del cable de alimentación.
16. Si este producto va a ser enracado con más equipo, use algún tipo de apoyo trasero.
17. Nota para el Reino Unido solamente: Si los colores de los cables en el enchufe principal de esta unidad no corresponden con los terminales en su enchufe, proceda de la siguiente manera:
  - a) El cable de color verde y azul debe ser conectado al terminal que está marcado con la letra E, el símbolo de Tierra (earth), coloreado en verde o en verde y amarillo.
  - b) El cable coloreado en azul debe ser conectado al terminal que está marcado con la letra N o el color negro.
  - c) El cable coloreado en marrón debe ser conectado al terminal que está marcado con la letra L o el color rojo.
18. Este aparato eléctrico no debe ser sometido a ningún tipo de goteo o salpicadura y se debe tener cuidado para no poner objetos que contengan líquidos, como vasos, sobre el aparato.
19. La exposición a altos niveles de ruido puede causar una pérdida permanente en la audición. La susceptibilidad a la pérdida de audición provocada por el ruido varía según la persona, pero casi todo el mundo perderá algo de audición si se expone a un nivel de ruido suficientemente intenso durante un tiempo determinado. El Departamento para la Salud y para la Seguridad del Gobierno de los Estados Unidos (OSHA) ha especificado las siguientes exposiciones al ruido permisibles:
 

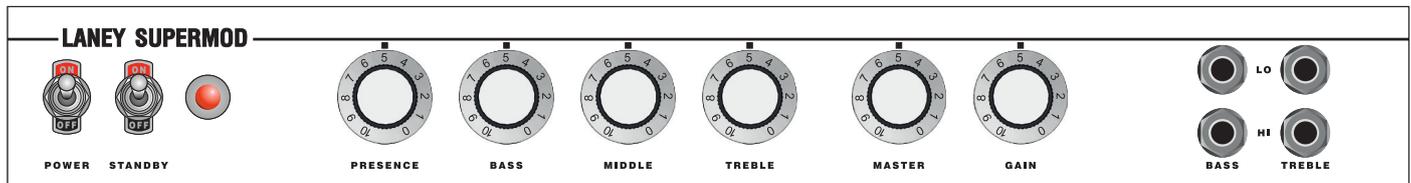
De acuerdo al OSHA, cualquier exposición que exceda los límites arriba indicados puede producir algún tipo de pérdida en la audición. Protectores para los canales auditivos o tapones para los oídos deben ser usados cuando se opere con este sistema de sonido para prevenir una pérdida permanente en la audición, si la exposición excede los límites indicados más arriba. Para protegerse de una exposición a altos niveles de sonido potencialmente peligrosa, se recomienda que todas las personas expuestas a equipamiento capaz de producir altos niveles de presión sonora, tales como este sistema de amplificación, se encuentren protegidas por protectores auditivos mientras esta unidad esté operando. - **SEE TABLE 1**

### INSTRUTIONS IMPORTANTES DE SECURITE - FRANCAIS

ATTENTION: L'utilisation de tout appareil électrique doit être soumise aux précautions d'usage incluant:

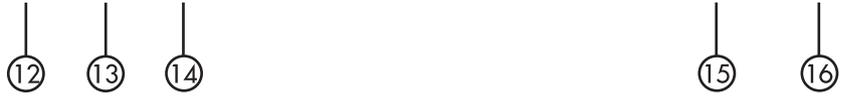
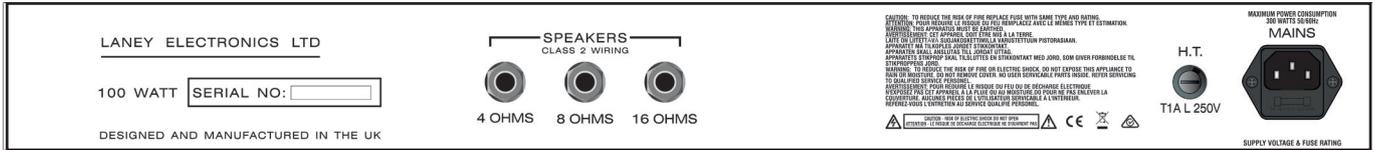
1. Lire ces instructions
2. Gardez ce manuel pour de futures références.
3. Prêtez attention aux messages de précautions de ce manuel.
4. Suivez ces instructions.
5. N'utilisez pas cette unité proche de plans d'eau.
6. N'utilisez qu'un tissu sec pour le nettoyage de votre unité.
7. N'obstruez pas les systèmes de refroidissement de votre unité et installez votre unité en fonction des instructions de ce manuel.
8. Ne positionnez pas votre unité à proximité de toute source de chaleur.
9. Un appareil avec la construction de la classe I sera relié à une sortie de douille de forces à un raccordement protecteur. Connectez toujours votre unité sur une alimentation munie de prise de terre utilisant le cordon d'alimentation fourni.
10. Protégez les connecteurs de votre unité et positionnez les cablages pour éviter toutes déconnexions accidentelles.
11. N'utilisez que des fixations approuvées par le fabriquant.
12. Lors de l'utilisation sur pied ou pole de support, assurez dans le cas de déplacement de l'ensemble enceinte/support de prévenir tout basculement intempestif de celui-ci.
13. Les forces branchent ou le coupleur d'appareils est utilisé pendant que le dispositif de débranchement et restera aisément fonctionnel. L'utilisateur devrait permettre l'accès facile à toutes les forces prise, à forces coupleur et à commutateur de forces utilisé en même temps que cette unité le rendant de ce fait aisément fonctionnel. Débranchez cet appareil pendant la foudre donne l' assaut à ou si inutilisé pendant de longues périodes.
14. Seul un technicien agréé par le fabriquant est à même de réparer/contrôler votre unité. Celle-ci doit être contrôlée si elle a subit des dommages de manipulation, d'utilisation ou de stockage (humidité,...).
15. Ne déconnectez jamais la prise de terre de votre unité.
16. Si votre unité est destinée a être montée en rack, des supports arriere doivent être utilisés.
17. Note pour les Royaumes-Unis: Si les couleurs de connecteurs du cable d'alimentation ne correspond pas au guide de la prise secteur, procédez comme suit:
  - a) Le connecteur vert et jaune doit être connecter au terminal noté E, indiquant la prise de terre ou correspondant aux couleurs verte ou verte et jaune du guide.
  - b) Le connecteur bleu doit être connecter au terminal noté N, correspondant à la couleur noire du guide.
  - c) Le connecteur marron doit être connecter au terminal noté L, correspondant à la couleur rouge du guide.
18. Cet équipement électrique ne doit en aucun cas être en contact avec un quelconque liquide et aucun objet contenant un liquide, vase ou autre ne devrait être posé sur celui-ci.
19. Une exposition à de hauts niveaux sonores peut conduire à des dommages de l'écoute irréversibles. La susceptibilité au bruit varie considérablement d'un individu à l'autre, mais une large majorité de la population expérimentera une perte de l'écoute après une exposition à une forte puissance sonore pour une durée prolongée. L'organisme de la santé américaine (OSHA) a produit le guide ci-dessous en rapport à la perte occasionnée:
 

D'après les études menées par le OSHA, toute exposition au delà des limites décrites ce-dessus entrainera des pertes de l'écoute chez la plupart des sujets. Le port de système de protection (casque, oreillette de filtrage,...) doit être observé lors de l'opération cette unité ou des dommages irréversibles peuvent être occasionnés. Le port de ces systèmes doit être observé par toutes personnes susceptibles d'être exposées à des conditions au delà des limites décrites ci-dessus. - **SEE TABLE 1**



- ① **Power Switch:** Always make sure there is a load connected to your amp before turning on. This load can be a traditional speaker cabinet or a correctly matched dummy load device.
- ② **Standby Switch:** Allow the amplifier to warm up for approximately a minute before switching to the ON position.
- ③ **Power Indicator:** Indicates that the amplifier is powered up.
- ④ **Presence:** boosts the upper mids and highs within the output section. Should be adjusted to your personal tastes, '0' is a good starting point.
- ⑤ **Bass:** Adjusts the low-end response of the signal. As the amplifier is driven harder and louder you may find the need to dial out a little bass. '5' is a good starting point.
- ⑥ **Middle:** Adjusts the mid frequency response of the signal. As the amplifier is driven harder and louder you may find the need to alter the middle accordingly. '5' is a good starting point.
- ⑦ **Treble:** Adjusts the high frequency content of the signal. As the amplifier is driven harder and louder you may find the need to adjust the high-end response accordingly. '5' is a good starting point.
- ⑧ **Master Volume:** Used to adjust the overall volume of the amplifier to the desired listening level. Due to the unique way the Master Volume circuit is designed, turning the master volume down does not alter the output sections content to the overall tone. Keep your amazing valve tone intact whatever level you decide to play at.
- ⑨ **Gain:** Adjusts the level of Gain/Distortion present in the signal. Also contributes to the overall listening level of the amplifier.
- ⑩ **Bass Input HI :** Has a neutral frequency and is great for pedals and boards.
- ⑪ **Bass input LO:** Has the same tonal characteristics as Bass Input 1 but with a lower gain setting.
- ⑫ **Treble Input HI:** Has an accentuated high-end response.
- ⑬ **Treble input LO:** Has the same tonal characteristics as Treble Input 1 but with a lower gain setting.

**Channel Jumping:** It is possible for a player to mix the tonal and gain characteristics of each input on the LA100SM by what is known as channel jumping. To do this simply choose the initial channel you want to use. Let's say the Bass Input 1, connect your guitar as normal. Now using a regular patch cable connect Bass Input 2 to an input on the treble channel. Choose input 1 or 2 depending on how much gain you want. The result, you have more treble in your signal without losing the bass response generated by the Bass Input. Channel jumping can produce some really great sounds so do not hesitate to experiment.



- 12 **Speakers:** 3 x 1/4" mono jack sockets are provided for the connection of a variety of speaker cabinets. Mismatching your speaker impedance will reduce the performance
- 13 of your amplifier, and in extreme cases may damage the unit. Only use one impedance
- 14 selection at a time. Always operate this amplifier with a load connected. If not serious irreparable damage may occur.

!! Warning. The speaker output of this unit exceeds 10 Watts and could lead to a shock injury. Speaker wiring must conform to Class 2 wiring standards!

- 15 **HT Fuse:** This fuse disconnects the high voltage DC power to the tubes within the amplifier in the event of a fault. **USE ONLY THE CORRECT SIZE AND RATING FUSE AS SPECIFIED ON THE PANEL.** If a fuse blows or fails and a replacement of the same size and rating is installed which in turn blows, the amplifier has suffered a malfunction. At this point check the output tubes, and replace faulty ones if required. Should the tubes not be the problem, refer the amplifier to a qualified service technician. **DO NOT TRY A FUSE OF HIGHER RATING** - Using a fuse that is too large in current rating may cause serious, irreparable damage to the amplifier. Fuses are designed to protect, do not take chances.

- 16 **Mains inlet socket:** – Connect to your power source. Make sure the voltage indicated on the rear panel is correct for your country!

**MAINS FUSE:** – This 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. **USE ONLY THE CORRECT SIZE AND RATING SPECIFIED ON THE PANEL.** If a fuse blows or fails and a replacement of the same size and rating is installed which in turn blows, the amplifier has suffered a malfunction and needs immediate service from a qualified technician. **DO NOT TRY A FUSE OF HIGHER RATING** - 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 mains fuse ratings are detailed in the Specifications section of this manual, as well as printed on the rear of the amplifier. There is a spare fuse located in the fuse drawer of the mains power inlet in the event of a failure.

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### Tube Amplifier Survival Tips

- Tube amps generally sound much warmer/sweeter than solid state transistor amplifiers, but they also need a little more respect due to the fragile glass tubes themselves. The LA100SM uses top quality tubes, which should give you years of trouble-free service. However, like all tube amps, it is important to treat it with a certain amount of care.
- Tubes are fragile glass components and can easily be damaged if not treated with respect
- Make sure the impedance of your cabinets matches your amplifier. Improper impedance matching will result in reduced output power and compromised sound at best, with amplifier failure/premature tube failure at worst.
- Allow the amplifier to warm up to room temperature before switching it on. If you don't, the sudden thermal shock can crack the cold glass tube housing plus any moisture is bad news for high voltage electronics.
- Allow your amplifier to cool down before moving it. Hot tubes are more susceptible to damage than cool ones. A tubes life expectancy is based upon a number of factors which include operating temperature, how hard and how often it is played, vibration due to travel etc . Although there isn't a specific interval for replacement, tubes should be changed if you notice any degradation of performance.
- Typical problems with pre-amp tubes can be a crackly noise, hiss, hum and microphony. Other symptoms include a sound lacking in punch, extreme highs or lows and low-level hum. Internal failure of the tube can also blow the HT fuse. Exact pre-tested and selected replacement pre-amp and output tubes are available from Laney via your dealer.
- To change a tube, switch off the unit and unplug from the mains supply. Wait for the tubes to cool down. Remove the rear panel held in place with screws. You should now be able to access the amplifier chassis. Pre-amp tubes are protected with screen can. To remove, push down and gently twist the screen can anticlockwise and then pull up. The tube can then be gently pulled out. Take care when pushing the new tube in, too make sure the pins are aligned properly with the tube base. Output tubes have a spring retainer which must be pulled away before the tube will come out.
- Amplifier connection: in order to avoid damage, it is advisable to establish and follow a pattern for turning on and off your equipment. Connect and power up all system parts (effects processors, FX pedals etc.) BEFORE turning on your guitar amplifier standby switch. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your guitar amplifier last and making sure its volume controls are set to a minimum, any transients from the equipment will not reach your loudspeakers.

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## 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:

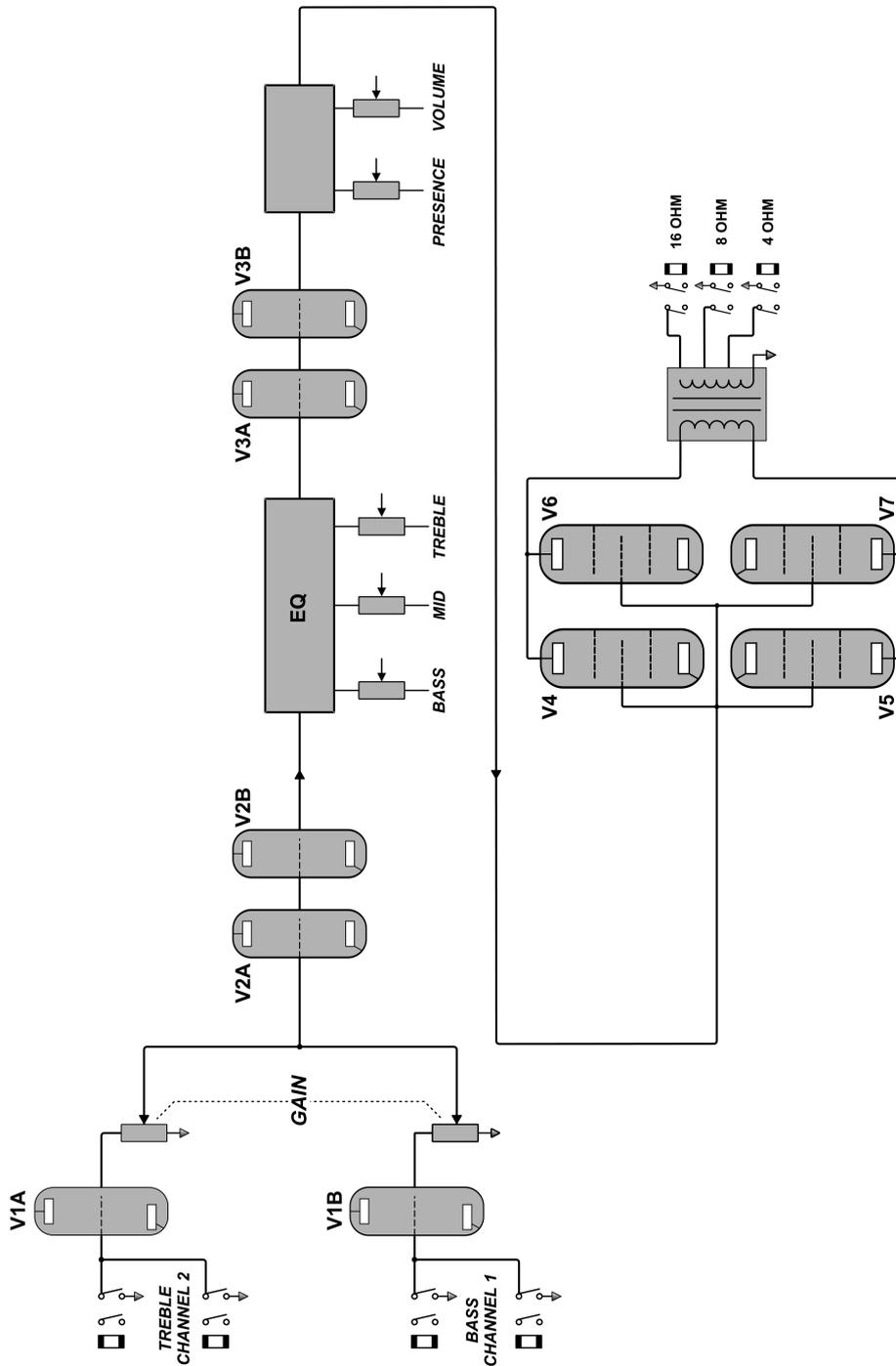


CE Mark (93/68/EEC), Low Voltage (2014/35/EU), EMC (2014/30/EU),  
RoHS (EU2011/65/EU), ErP (2009/125/EU).

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.

<b>Model :</b>	LA100SM
<b>Supply Voltage:</b>	~100V, ~120V, ~220-230V, ~240V 50/60Hz Factory Option (Adjustments may be made by qualified Laney approved service personel only)
<b>Mains Fuse:</b>	(~220V>240V = T2A L 250V) (~100>120V = T5A L 250V)
<b>HT Fuse:</b>	T1A L
<b>Power Consumption (Max):</b>	300W
<b>Output Power Rating:</b>	100W
<b>Loudspeaker Outputs:</b>	1*16 Ohm : 1*8 Ohm : 1*4 Ohm
<b>Inputs:</b>	Bass Channel (2 Inputs - HI and LO) Treble Channel (2 Inputs - HI and LO)
<b>Controls:</b>	Presence Bass Middle Treble Master Volume Gain
<b>Unit dimensions (HWD):</b>	255 x 765 x 220mm, 10" x 30.1" x 8.7"
<b>Net weight:</b>	21.5Kg, 47.4 lbs
<b>Carton dimensions (HWD):</b>	390 x 880 x 335mm, 15.4" x 34.6" x 13.2"
<b>Gross weight:</b>	23Kg, 50.7 lbs

LA100SM block diagram



Spare Tubes

V1-V3 - 12AX7AC7 - 008057

V4-V7 - EL34-STR - 005091 - 4 Set

**Notes**

**Laney**™

LANEY SUPERMOD



POWER    STANDBY

PRESEN

BLACK COUNTRY CUSTOMS™

HANDCRAFTED IN THE UK