Tube Fusion II

OPERATING INSTRUCTIONS - Issue 1.1

Tube Fusion-II
TF200-II
TF300-II
TF320-II
TF700-II

www.laney.co.uk

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. 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.
14. 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.
15. Care should be taken so that objects do not fall and liquids are not spilled into the unit through any ventilation holes or openings. On no account place drinks on the unit.
16. 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.
17. The user should not attempt to service the equipment. All service work is done by a qualified service technician.
18. Exposure to extremely high noise levels may cause a permanent hearing gloss. 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

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

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

CAUTION: Risk of electrical shock - DO NOT OPEN

CAUTION: To reduce the risk of electircal shock, do not remove the 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 please read the operating instructions for further warnings

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

Este simbolo tiene el proposito de alertar al usario de la presencis de instruccones importantes sobre la operacion y mantenimiento en la literatura que viene con el producto

PRECAUCION: Riesgo de corrientazo - no abra

PRECAUCION: Para disminuir el riesgo de carrientazo, no abra la cubierta. No hay piezas adentro que el pueda reparar. Deje todo mantenimiento a los tecnicos calificadod

ADVERTENCIA: Para evitar corrientazos o peligro de incendio, no deja expuesto a la lluvia o humedad este aparato Antes de usar este aparato, lea mas advertcias en la guia de operacion

Ce symbole est utilise 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.

Ce symbole est utilise pour indiquer a l'utilisanter qu'il ou qu'elle trouvera d'importantes instrucions sur l'utilisation et l'entrerien (service) de l'appareil dans la litterature accompagnant le produit

ATTENTION: Risques de choc electrique - NE PAS OUVIRIR

ATTENTION: 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.

AVERTISSEMENT: 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 avertissements supplentaires situes dans le guide.

Dieses Symbol soll den Anwender vor unsolierten gefahrlichen Spannungen innerhalb des Gehauses warnen, die von Ausreichender Starke sind, um einen elektrischen Schlag verursachen zu konnen.

Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

VORSICHT: Risiko - Elektrischer Schlag! Nicht offen!

VORSICHT: 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

ACHTUNG Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

INTRODUCTION

Congratulations on your decision to purchase a Laney Tube Fusion 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.

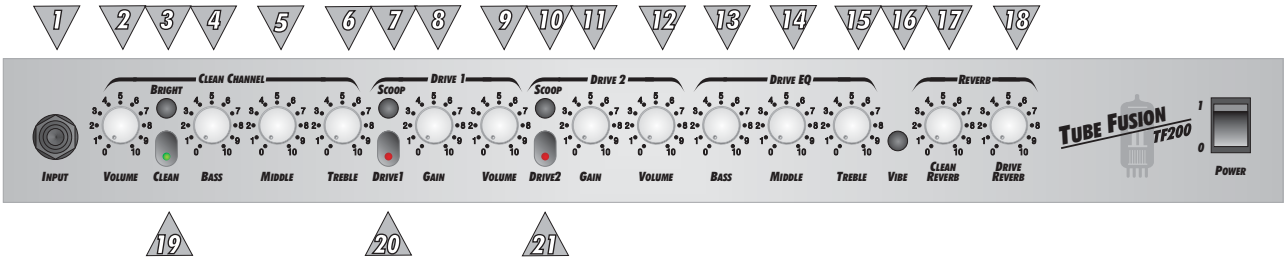
When you first receive your Laney Tube Fusioin amp, follow these simple procedures:

(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 shielded instrument cable. Use of cheap cables will compromise the sound of your instrument and your amplifier.

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

TF200-II Front Panel



INPUT: This socket should be used for connecting the instrument to the amplifier.

VOLUME: Adjusts the overall volume of the clean channel.

BRIGHT SWITCH: Adds brightness and sparkle to the upper frequencies of the clean channel.

BASS: Controls the clean channel low-frequency-EQ in the pre-amplifier.

MIDDLE: Controls the clean channel mid-frequency-EQ in the pre-amplifier.

TREBLE: Controls the clean channel high-frequency-EQ in the pre-amplifier.

SCOOP - Drive 1: The scoop control radically cuts the level of mid range frequencies present in the sound giving you a very modern, aggressive lead tone.

GAIN: Sets the level of gain on the drive channel 1. For optimum results the gain control should be used in conjunction with the volume control (9). Setting low levels of gain with high levels of volume will result in a nice crisp bluesy lead tone. Setting the gain control to midway with a medium volume level will give you a punchy hard rock lead tone and setting the gain to maximum and backing the volume off, gives you a full on metal lead tone. Obviously the type of guitar you use will have an effect on the overall sound you hear, but the above settings are meant as an indication of the different sounds that can be achieved.

VOLUME: Adjusts the overall volume of the drive channel 1.

SCOOP- Drive 2: The scoop control radically cuts the level of mid range frequencies present in the sound giving you a very modern, aggressive lead tone.

GAIN: Sets the level of gain on the drive channel 2. For optimum results the gain control should be used in conjunction with the volume control (12). Setting low levels of gain with high levels of volume will result in a nice crisp bluesy lead tone. Setting the gain control to midway with a medium volume level will give you a punchy hard rock lead tone and setting the gain to maximum and backing the volume off, gives you a full on metal lead tone. Obviously the type of guitar you use will have an effect on the overall sound you hear, but the above settings are meant as an indication of the different sounds that can be achieved.

VOLUME: Adjusts the overall listening volume of the drive channel 2.

BASS: Shared Bass EQ control for drive channels 1 & 2, sets low end frequency response.

MIDDLE: Shared MIDs EQ control for drive channels 1 & 2, sets Mid frequency response.

TREBLE: Shared Treble EQ control for drive channels 1 & 2, sets high end frequency response.

TF200-II Front Panel

16 **VIBE:** Generates a radical EQ cut and boost. Difficult to explain but easy to hear! Give it a try. Works on both channels.

17 **CLEAN REVERB LEVEL:** Sets the overall level of REVERB present in the clean channel signal.

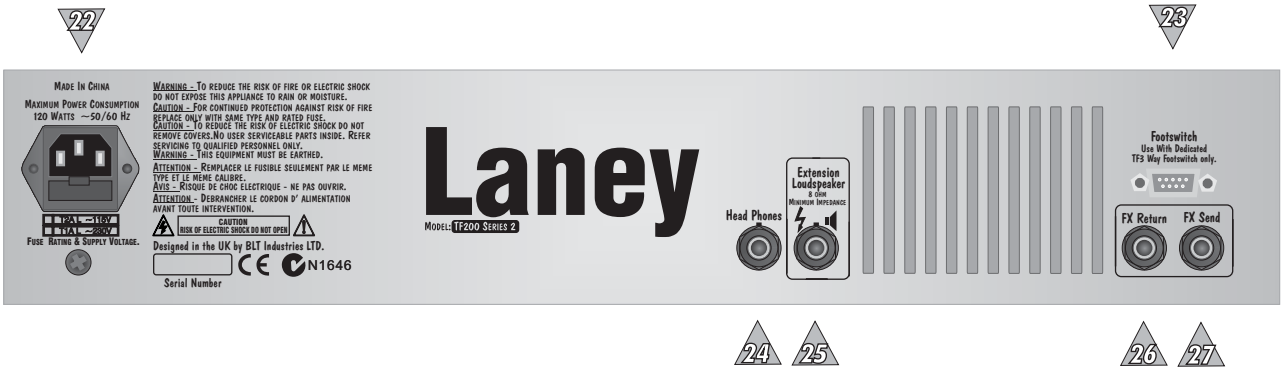
18 **DRIVE REVERB LEVEL:** Sets the overall level of REVERB present in the drive channel signal.

19 **CLEAN CHANNEL SWITCH:** Selects the amplifiers CLEAN channel.

20 **DRIVE I CHANNEL SWITCH:** Selects the amplifiers DRIVE I channel.

21 **DRIVE 2 CHANNEL SWITCH:** Selects the amplifiers DRIVE 2 channel.

TF200-II Rear Panel



22 **POWER:** Socket for connecting external power source.

23 **FOOTSWITCH SOCKET:** Socket provided for connecting the supplied TF footswitch. The TF footswitch is a dedicated footswitch for TF amplifiers please do not attempt to connect anything other than the TF footswitch supplied as this may result in serious damage to your amplifier.

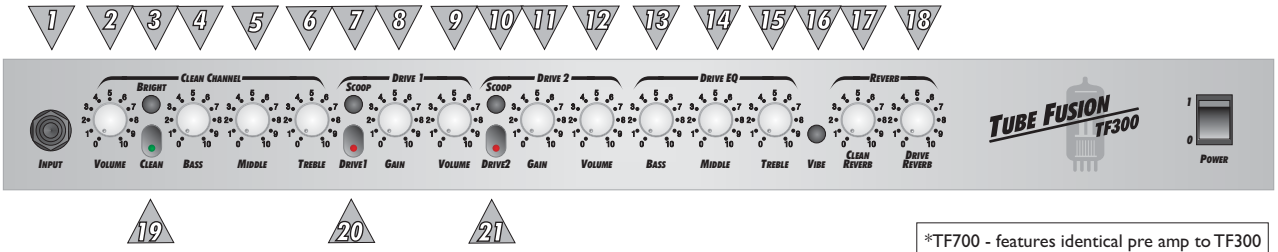
24 **HEADPHONES:** Socket provided for connecting pair of quality headphones. When headphones are connected to the amplifier the output from the on board speaker is muted.

25 **EXTENSION SPEAKER SOCKET:** Socket provided for connecting an external speaker enclosure. NOTE The minimum impedance of any speaker cabinet connected to you amplifier must not be less than 8 Ohms. Connecting a load of less than 8 Ohms will result in your amplifier overheating. Whilst this is not a problem in the short term, prolonged use in this manner will result in permanent damage to your amplifier and voiding of your amplifiers guarantee.

26 **FX RETURN :** Socket provided for connecting the output of an external effects device.

27 **FX SEND :** Socket provided for connecting an external effects device. The output from this socket should be connected to the external effect devices input.

TF300-II/TF320-II/TF700-II* Front Panel



*TF700 - features identical pre amp to TF300 apart from being reversed

INPUT: This socket should be used for connecting the instrument to the amplifier.

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BRIGHT SWITCH: Adds brightness and sparkle to the upper frequencies of the clean channel.

BASS: Controls the clean channel low-frequency-EQ in the pre-amplifier.

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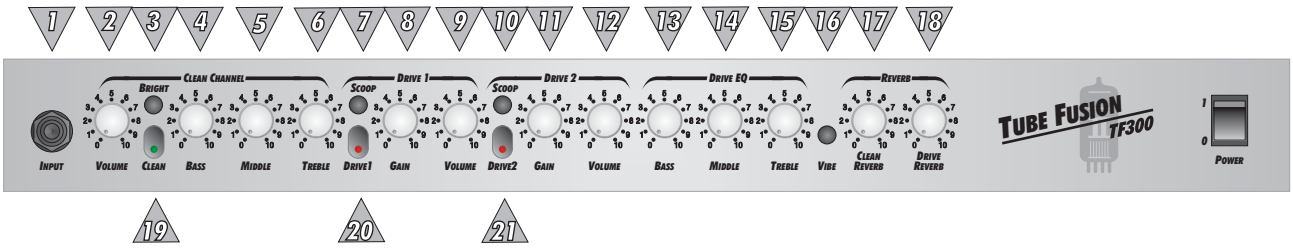
TF300-II/TF320-II/ TF700-II* Front Panel



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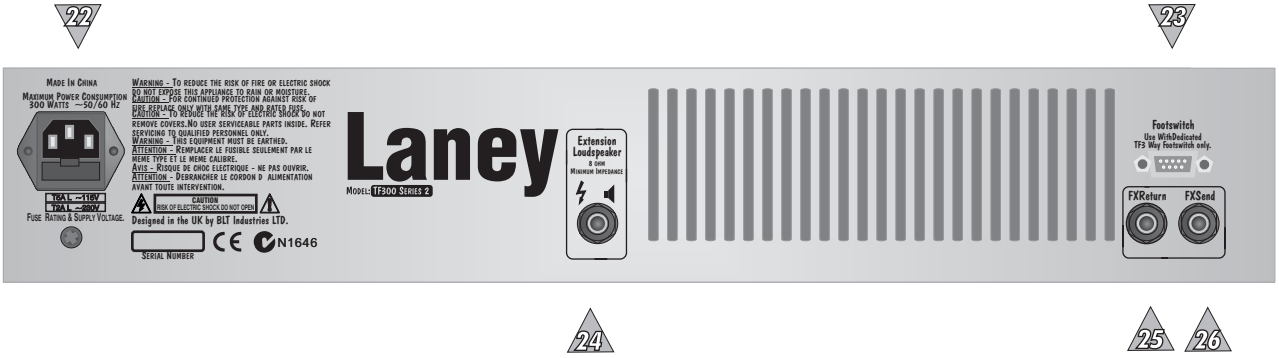
TF300-II/ TF320-II Rear Panel



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25 **FX RETURN :** Socket provided for connecting the output of an external effects device.

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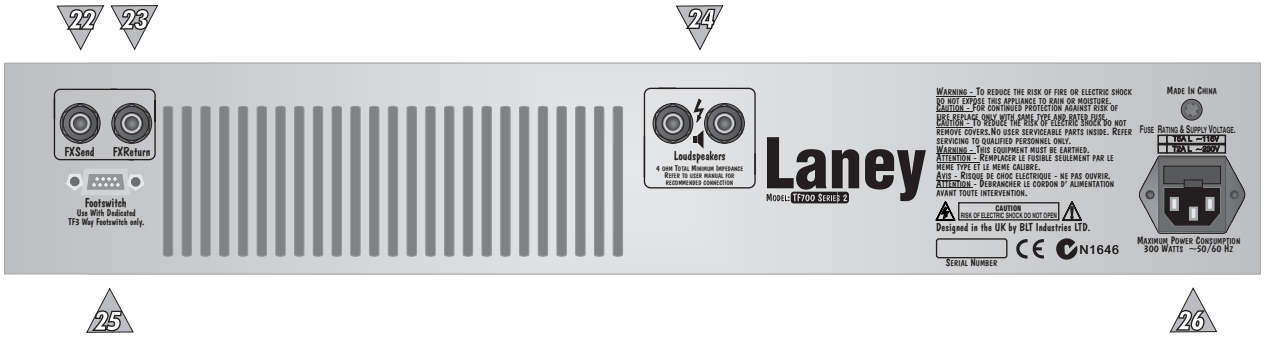
TF700-II Rear Panel



22 **FX SEND :** Socket provided for connecting an external effects device. The output from this socket should be connected to the external effect devices input.

23 **FX RETURN :** Socket provided for connecting the output of an external effects device.

24 **EXTENSION SPEAKER SOCKET:** Sockets provided for connecting external speaker enclosures. NOTE The minimum impedance of any single speaker cabinet connected to you amplifier must not be less than 8 Ohms. Connecting a total load of less than 4 Ohms will result in your amplifier overheating. Whilst this is not a problem in the short term, prolonged use in this manner will result in permanent damage to your amplifier and voiding of your amplifiers guarantee.

25 **FOOTSWITCH SOCKET:** Socket provided for connecting the supplied TF footswitch. The TF footswitch is a dedicated footswitch for TF amplifiers please do not attempt to connect anything other than the TF footswitch supplied as this may result in serious damage to your amplifier.

26 **POWER:** Socket for connecting external power source.

Notes

	TF200	TF300 /(TF320)	TF700
Input Sensitivity			
Clean	20mV	20mV	20mV
Drive 1	850uV	850uV	850uV
Drive 2	100uV	100uV	100uV
Input Impedance	1Meg/47pF	1Meg/47pF	1Meg/47pF
FX Loop	850mV(Zout 1K/Zin 22K)	850mV(Zout 1K/Zin 22K)	850mV(Zout 1K/Zin 22K)
Output Power 4 ohm	65W	120W	120W
Output Power 8 ohm	48W	80W	80W
Size (H*W*D)	475*534*270	485*575(680)*280	255*578*242
Weight (Kg)	16Kg	18Kg (24kg)	12Kg

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