

LX II

STEREO POWER AMPLIFIER



MODEL LX II

OWNERS MANUAL



www.fryette.com

Welcome to the family!

Congratulations and thank you for choosing the FRYETTE® LX II™ Stereo Power Amplifier!

You are constantly searching for new sounds and new ways to improve your existing sound. We understand the constantly evolving nature of artistic creativity and the search for the perfect sound to complement your ever-widening musical vision. Providing the tools to help you create your own sonic signature is our primary mission.

With Fryette Power Amplifiers, it's all about the feel. Once you hear a modeling amplifier with a real tube power amp pushing the speakers you'll instantly understand why a digital signal path can't duplicate the complex relationship between a power tube and the speakers. The LX II's default linear response mode provides a full-range, flat-response signal from your amp to your speaker cabinet. Engaging the front panel PRESENCE and DEPTH buttons activate user-adjustable sonic enhancements that bring the color and life to your tone that you would expect from a Fryette power amp. In addition, the PRESENCE and DEPTH controls can be activated remotely using the rear panel control jack which can also be driven from the control out function found on most modeling devices and midi controllers.

Now you can hear *and feel* what that model is supposed to sound like!

Built on decades of experience producing the finest all-tube power amps available, the Fryette LX II is the world's first one-rack-space all-tube 50-watt per channel power amp. It beautifully accentuates the inherent qualities of any preamp or modeling device and dynamically responds to your playing technique, the way a great guitar amp should.

The Fryette LX II represents the ultimate evolution of classic tube amplifier design with a Patented technology that allows it to fit in a one-rack-space housing with high reliability and extremely quiet operation.

IMPORTANT SAFETY INSTRUCTIONS



This symbol warns the user of dangerous voltage levels localized within the enclosure.



This symbol advises the user to read all accompanying literature for safe operation of the unit.

- Read, retain, and follow all instructions. Heed all warnings.
- Only connect the power supply cord to an earth grounded AC receptacle in accordance with the voltage and frequency ratings listed under the AC input on the rear panel of this product.
- **WARNING:** To prevent damage, fire or shock hazard, do not expose this unit to rain or moisture.
- Unplug the power supply cord before cleaning the unit exterior (use a damp cloth only). Wait until the unit is completely dry before reconnecting it to power.
- Maintain unobstructed air space behind and above the unit to allow for proper ventilation and cooling.
- This product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
- This product may be equipped with a polarized plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of this plug.
- Protect the power supply cord from being pinched or abraded.
- The power supply cord of this product should be unplugged from the outlet when left unused for a long period of time, or during electrical storms.
- This product should be serviced by qualified service personnel when: the power supply cord or the plug has been damaged; or objects have fallen, or liquid has been spilled onto the product; or the product has been exposed to rain; or the product does not appear to operate normally or exhibits a marked change in performance; or the product has been dropped, or the enclosure damaged.
- Do not drip or splash liquids, nor place liquid filled containers on the unit.
- **CAUTION:** *No user serviceable parts inside, refer servicing to qualified personnel only.*
- **FRYETTE®** amplifiers and loudspeaker systems are capable of producing very high sound pressure levels which may cause temporary or permanent hearing damage. Use care when setting and adjusting volume levels during use.
- Hazardous voltages may be present within the chassis even with the power switch off and power cord connected. Therefore, disconnect the power cord from the rear panel power inlet before servicing. The power inlet must remain readily operable.

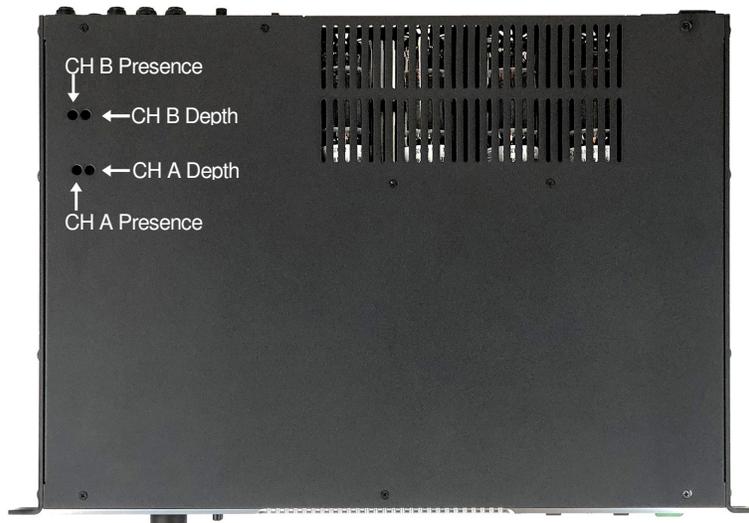
FRONT PANEL



LEFT TO RIGHT

1. VOLUME – A single volume control provides equal output levels for both channels simultaneously.
2. PRESENCE/FRFR - Push button switch. Engages the Presence control setting.
3. DEPTH/FRFR - Push button switch. Engages the Depth control setting.
4. STANDBY – Individual Standby switches turn on high voltage to the output section of each channel. In standby, the amplifier output is disabled while power is supplied to the tube filaments only. Use STANDBY instead of switching the power off during short breaks to extend tube life and avoid the warm-up delay upon returning to play.
5. FUSE A - 1/2 amp fast blow fuse for Channel A
6. FUSE B - 1/2 amp fast blow fuse for Channel B
7. MAINS - Switches main AC power on or off. Illuminates when the unit is ON. You can extend the life of the amplifier tubes by keeping the STANDBY switches down for the first 60 seconds after power up.

TOP PANEL PRESENCE AND DEPTH CONTROLS



8. PRESENCE CONTROL – Trim pot control can be accessed through hole in top cover. Sets the high-end frequency response of the power amplifier.
9. DEPTH CONTROL - Trim pot control can be accessed through hole in top cover. Sets the low-end frequency response of the power amplifier.

The factory default setting of the Presence and Depth trim-pots are 1:00 and 11:00 respectively. The trim-pots are easily accessible using a small flat blade screwdriver as shown in the diagram above.

REAR PANEL



RIGHT TO LEFT

1. INPUT A/MONO BRIDGE - Upper input jack for BRIDGE/MONO signal input. (Example: Mono signal coming from a preamp is sent to A and B Channels simultaneously) or to Channel A input from a stereo source.
2. INPUT B - Lower input jack for Channel B for stereo source operation (example: left and right outputs coming from a stereo modeling preamp or stereo effect processor would input left signal to Channel A input and right signal to Channel B input).
NOTE! Sending a single source signal (MONO) into the Channel B input without inputting any signal to the Channel A input will effectively defeat the operation of Channel A (no sound from Channel A).
3. ENHANCE REMOTE – Footswitch TRS jack for remotely engaging the Presence (tip) and Depth (ring) switches on the front panel. You can use any standard 2-function TRS latching footswitch or remote switching device. Shielded or non-shielded cable is suitable for this application. (Footswitch sold separately.)
4. LINE OUT – A line level version of the speaker output sound for connection to a direct box or recording interface.
5. SPEAKER OUTPUTS A – Two parallel outputs for each channel. **NOTE!** To prevent damage to power tubes and/or output transformer, ALWAYS USE “USE FIRST” output when running one speaker cab for either or both channels.
6. IMPEDANCE SELECTOR A – Sets optimum operating impedance for each channel. Set for 4, 8, or 16 Ohm loads.
7. SPEAKER OUTPUTS B - Two parallel outputs for each channel. **NOTE!** To prevent damage to power tubes and/or output transformer, ALWAYS USE “USE FIRST” output when running one speaker cab for either or both channels.
8. IMPEDANCE SELECTOR B - Sets optimum operating impedance for each channel. Set for 4, 8, or 16 Ohm loads.
9. STEREO/MONO SWITCH – Selects BRIDGE MONO (channel A and B in parallel) mode or Stereo (independent channel operation) mode. **NOTE! Operating impedance is 2, 4 or 8 ohms in BRIDGE MONO MODE as indicated under the upper (A Channel) impedance selector switch. NOTE! It is OK to drive a 16 ohm load on the 8 ohm setting in BRIDGE MONO mode.**
10. MAINS FUSE – Protects the amplifier from electrical faults. Replace only with type and rating specified on the rear panel of your amplifier.



Warning! Replace only with same fuse type and rating.

11. AC MAINS INPUT – Connect to a grounded outlet in accordance with the voltage and frequency specified on the rear panel of your amplifier.



Use only the factory supplied cord set or a UL approved equivalent type.

TUBE FUNCTION AND LOCATION CHART

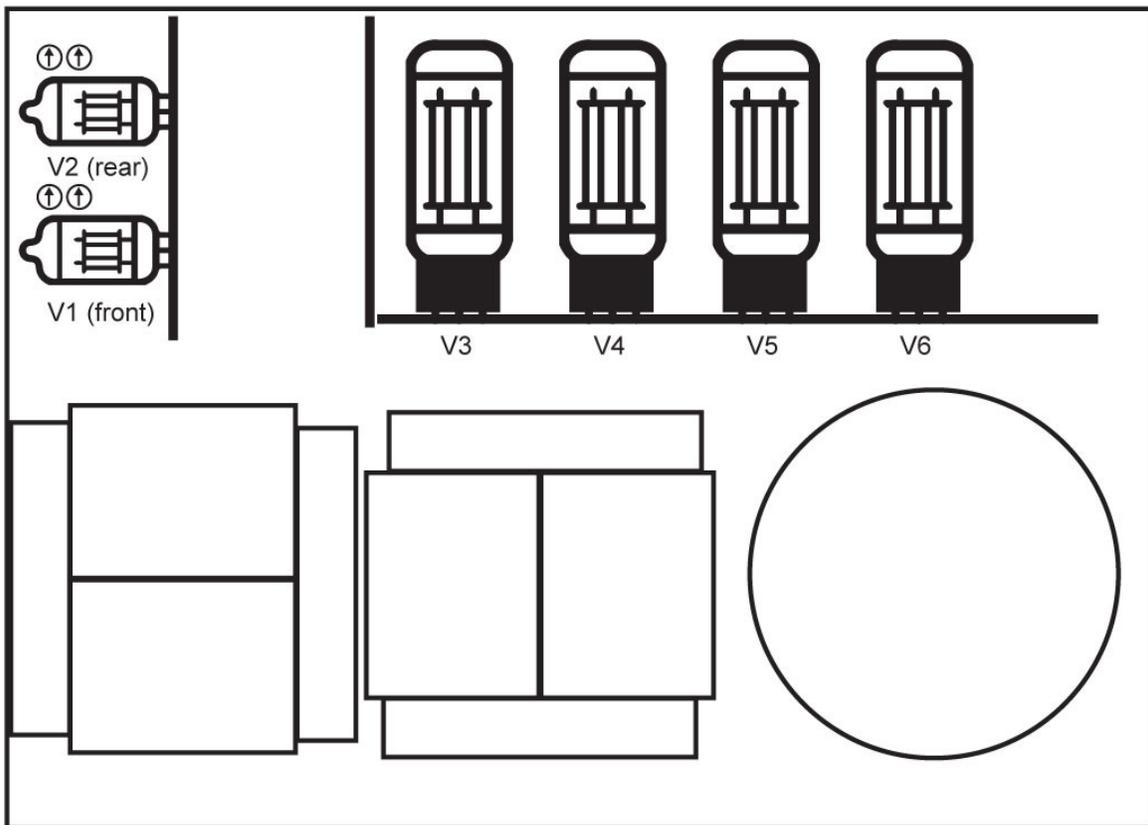
Factory recommended tubes are listed under each location. Numbering sequence is left to right looking at FRONT of amp starting with the row closest to front panel of amp. **Use only 12AX7 tubes as specified. These cannot be for other types.**

V1 (FRONT) Channel A Phase Inverter. Circled arrows above tube indicates Presence and Depth controls.
12AX7AC Ruby Selected

V2 (REAR) Channel B Phase Inverter. Circled arrows above tube indicates Presence and Depth controls.
12AX7AC Ruby Selected

V3-V6 Power Tubes
6L6GCM Ruby Selected Fryette Tested & Matched
Sovtek 5881-6L6WGC Fryette Tested & Matched

Any good quality 6L6/5881 tube type will operate properly in this amplifier. Due to the unique, compact design, the power tubes bias voltage is factory fixed for optimum operation. NOTE! The operating voltages and temperature are optimized for this specific bias setting. To maintain safe operating temperature and maximum reliability, the bias is factory fixed and must not be altered.



TROUBLESHOOTING GUIDE

WON'T TURN ON

1. Make sure AC cord is securely connected at both ends.
2. Verify the power source with something you know works.
3. Check the mains fuse and replace if necessary. If any fuse blows again, refer to qualified service personnel.

NO SOUND

1. Check input cable(s).
2. Check volume controls.
3. Make sure the preamp or source signal volume and/or gain controls are turned up.
4. Check speaker cables to see if it is disconnected or shorted.
5. Make sure that each impedance selector is fully engaged in its detent.
6. Check the standby switches.
7. Check for a blown speaker.
8. Check the channel fuses and replace if necessary. If any fuse blows again, refer to qualified service personnel.

RUNNING HOT

1. Make sure that the unit has adequate ventilation.
2. Make sure that the impedance selector is set to the proper impedance.
3. Power tubes may be drawing excessive current (refer to qualified service personnel).
NOTE: Always set the amplifier to standby when taking breaks and turn the amplifier off when not in use. This will extend tube life and improve long term reliability.

DISTORTION

1. Check the impedance setting.
2. Check the speaker cables for shorts.
3. Check the speaker.
4. Check the signal level at other devices in the signal path.
5. Power tubes may be weak (refer to qualified service personnel).

BLOWING MAINS FUSE

1. Bad power tube or other internal power supply component (refer to qualified service personnel).

SPECIFICATIONS

MODEL: LX II
MODEL NUMBER: LXII
POWER REQUIREMENT: 350W
POWER AMP OUTPUT PER CHANNEL: 50W RMS @ 5% THD,
1kHz sine into 8 Ω
INPUT IMPEDANCE: 10K Ω
OUTPUT IMPEDANCE:
Stereo Mode - 4 Ω /8 Ω /16 Ω per channel
Bridge Mono Mode - 2 Ω /4 Ω /8 Ω
FUSE:
100-120V UNITS: T4A, 125/250V.
220V-240V UNITS: T2A, 250V.

DIMENSIONS:
HEIGHT: 1.75" (4.4 cm) (1-RACK SPACE)
WIDTH: 17.5" (44 cm) (Front Panel 19" W including rack ears)
DEPTH: 12.5" (32 cm)
WEIGHT: 20 Lbs. (9 kg)

Product specifications are subject to change without notice.



Certificate of Compliance

Restriction of the use of Hazardous Substances (RoHS)

We certify that all of our products (exceptions see listed below) are compliant with the European Union Directive 2002/95/EC for the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

No Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr+6), PBB or PBDE is intentionally added to these devices. Any trace impurities of these substances contained in the parts are below the RoHS specified threshold levels.

All information provided in this Certificate of Compliance is accurate to the best of our knowledge as of the date this Certification was issued.

Certificate of Compliance

Registration, Evaluation, Authorization and Restriction of chemicals (REACH)

We declare that all of our products are compliant with European Union Directive EC1907/206 for the Registration, Evaluation, Authorization and Restriction of chemicals (REACH), and contain none or less than 0.1% of the chemicals listed as hazardous chemicals in the REACH regulation. All information provided in this Certificate of Compliance is accurate to the best of our knowledge as of the date this Certification was issued.

Declaration of Conformity

EMC and Low Voltage Directive (CE)

Product Name: LX II Power Amplifier
Model Number: LXII

This is to certify that the product listed above complies with the following European Union Council Directives and Standards relating to electromagnetic compatibility (EMC Directive 89/336/EEC) and the low voltage Directive (73/23/EEC).

This declaration of conformity of the European Communities is the result of an examination carried out by Electromagnetic Engineering Services, Inc. in accordance with European Standards EN 50081-1, EN 50082-1 and EN 60065 for low voltage, as laid down in Article 10 of the EMC Directive.

Steven Fryette Design, Inc
6850 Vineland Avenue., Unit P
North Hollywood, CA 91605 USA



LIMITED WARRANTY

Subject to the obligations and exclusions found below, this product is warranted by Steven Fryette Design, Inc., (herein SFD) against manufacturing defects in materials and workmanship for the period of Five (5) Years from the date of purchase, with the exception of the tubes, fuses and speakers where applicable, which carry a 90 day warranty.

The warranty period commences on the date of purchase by the original user. Performance under this warranty must be obtained at one of the following: an SFD Authorized Service Station, by returning the unit to the SFD factory with prior written authorization, or (in countries outside of the United States) by a representative SFD distributor.

Obligations

1. This warranty will be honored only on the presentation of the original proof of purchase.
2. Transportation of the product to and from an authorized SFD service outlet is the responsibility of the user. Units sent directly to the SFD factory for warranty repairs must be authorized by SFD and shipped prepaid.

Exclusions

1. This warranty shall not cover adjustment of consumer-operated controls as explained in the appropriate instruction manual, or products that have been altered or have missing, or defaced serial numbers.
2. This warranty shall not apply to the appearance of accessory items including but not limited to, cabinets, cabinet parts, or knobs.
3. This warranty does not apply to uncrating, setup, installation, or the removal and reinstallation of products for repair.
4. This warranty shall not apply to repair or replacements necessitated by any cause beyond the control of SFD including, but not limited to, any malfunction, defects, or failure caused by or resulting from unauthorized service or parts, damaged or broken tubes, incorrect line voltage, improper maintenance, modification or repair by the user, abuse misuse, neglect, accident, fire, flood, or other Acts of God.
5. Responsibility for the repair of any SFD product sold outside of U.S. boundaries is borne by the SFD representative in that particular country or territory. Also, the warranty term and conditions may be different from those stated above. Please contact the SFD distributor or dealer in your country for more information.

The foregoing is in lieu of all other expressed warranties, and SFD does not authorize any party to assume for it any other obligation or liability. In no event shall SFD be liable for special or consequential damages arising from the use of this product, or for any delay in the performance of this warranty due to causes beyond our control. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of consequential damages, so the above limitations on implied warranty and consequential damages may not apply to you. This warranty gives you specific legal rights. You may have other rights that vary from state to state.

WARRANTY REGISTRATION

U.S. and Canadian residents: Please retain your purchase receipt as proof of purchase for warranty purposes. All other international residents please contact the authorized distributor your Fryette product was purchased from. For a list of international distributors please visit www.fryette.com/dealers.html

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