

OWNERS MANUAL

Power Load™

VARIABLE REACTIVE LOAD BOX WITH CAB + MIC EMULATION
MODEL PL-1



FRYETTE®
AMPLIFICATION

Welcome to the family!

Congratulations and thank you for choosing the FRYETTE **Power Load™**!

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.

The Fryette Power Load™ is an easy to use, tunable reactive load coupled to a powerful analog Cab + Mic Emulation system that allows you to silently record your favorite cranked guitar tube amplifier. The Power Load™ allows you to fine tune the reactive behavior of your amplifier's response, and the response character of the Cab + Mic Emulation for unprecedented control of your direct performance.

Built on decades of experience producing the finest all tube amplifiers available, the Fryette Power Load™ is a practical and highly functional tool that solves problems frequently encountered in live playing and recording environments. Whether you are recording, performing live, writing, practicing, or just jamming with headphones, the Fryette Power Load™ will surprise you with its ability to get the most out of your favorite tube amp – silently!

Getting familiar with the Fryette Power Load™ is easy, so don't be terribly surprised when you find yourself up and running in no time. First-hand experience and real world application will yield the ultimate satisfaction of finding your own path to comprehension and self-expression.

SPECIFICATIONS

- ▶ Award-winning Power Station® Reactive Load with Variable High and Low Frequency Response
- ▶ 200W Speaker Load Capacity
- ▶ Works with any tube amp head or combo
- ▶ Analog Cab + Mic Emulation
- ▶ 100% Analog Signal Path
- ▶ Silent Recording capability
- ▶ Amp In with selectable Input Impedance (4, 8 or 16 Ohm)
- ▶ Passive load will operate without external power
- ▶ Operates with 12VDC 500 mA power supply
- ▶ Phase Reverse Switch
- ▶ ¼" AUX input with -10dB pad
- ▶ Headphone amp with dedicated FX Loop
- ▶ ¼" Headphone output
- ▶ XLR and ¼" transformer-isolated direct-only outputs
- ▶ XLR and ¼" Cab + Mic Emulated outputs

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 to the supplied DC Adapter, or another power source in accordance with the voltage and current rating listed 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 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.
- ▶ Protect the power supply cord from being pinched or abraded.
- ▶ The power supply 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 inlet 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, headphone 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.
- ▶ **THE POWER LOAD™ IS NOT INTENDED FOR USE WITH SOLID STATE AMPLIFIERS THAT USE CURRENT FEEDBACK AND AN UNGROUNDED OUTPUT. USING THE POWER LOAD™ WITH SUCH PRODUCTS MAY CAUSE OSCILLATION AND POTENTIAL DAMAGE TO THE AMPLIFIER.**
- ▶ **THE POWER LOAD™ IS NOT INTENDED FOR USE WITH CLASS D OR PWM AMPLIFIERS.**
- ▶ **FRYETTE® AMPLIFICATION IS NOT RESPONSIBLE FOR ANY DAMAGE TO YOUR AMPLIFIER THAT MAY OCCUR IN CONNECTION WITH ANY USE OF THE POWER LOAD™.**

Record Direct using your favorite tube amp

The Fryette Power Load™ combines the variable reactive load of the Award-winning Fryette Power Station® coupled to a tunable analog Cab + Mic Emulation system that allows you to silently record your favorite tube amplifier. Whether you are setting your tweed combo at the sweet spot or doing a full right hand sweep on your 100-watt head, the Power Load™ allows you to fine tune the reactive behavior the amplifier response, and the character of the Cab + Mic Emulation for unprecedented control of your recorded performance.

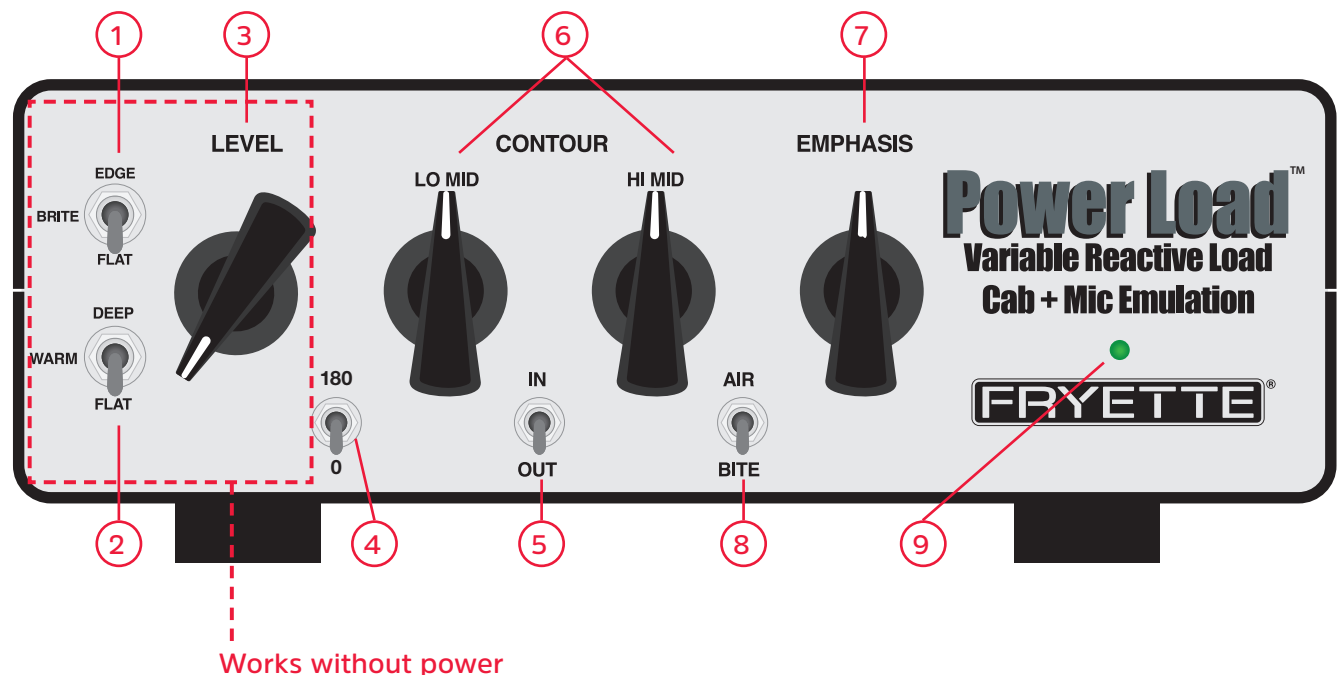
Practice with headphones

You can run your favorite tube amp into the Power Load™, cranked, for silent headphone practice with the built-in professional-quality headphone amplifier. The stereo effects loop in the headphone amp allows you to insert delays and reverb into the headphone mix. You can also connect a stereo music source such as a CD or MP3 player or group practice mixer using the Program Input for an unprecedented level of performance.

Perform live

For live performance you can place the Power Load™ in between your amp and cabinet, sending the XLR with Cab + Mic emulation direct to the Front of House PA and Monitor board. No cabs? No Problem! You can run your favorite amp silently, delivering dynamic consistent tone direct to the console.

FRONT PANEL OVERVIEW



REACTIVE LOAD VOICING SWITCHES

The Reactive Load in the Power Load™ is what absorbs the output power of the amplifier connected to the Amp In jack, and therefore the volume of that amplifier. It's easier to think of the Reactive Load as a substitute or dummy speaker. It reacts to your amplifier in the same way that a speaker reacts to your amplifier and this is what helps your amplifier retain its original tone and feel. Like the speaker connected to an amplifier, the response of the Reactive Load and it's interaction with the load amp changes at different volume settings. The Voicing Switches allow you to fine tune the response of the Reactive Load at your preferred playing volumes.

1. **EDGE/BRITE/FLAT** – This switch sets the high frequency (Treble/Presence) response of the reactive load in the Power Load™. This will determine how much of your load amplifier's top end presence and clarity will be retained. At high volume settings, this switch will normally be set FLAT or possibly BRITE if you want a little more cut in your live or recorded mix.
2. **DEEP/WARM/FLAT** – This switch sets the low frequency (Bass/Resonance) response of the reactive load in the Power Load™. This will determine how much of your load amplifier's low end punch and depth will be retained. At high volume settings, this switch will normally be set FLAT or possibly WARM if you want a little more low-end projection in your live or recorded mix.
NOTE: These switches only operate when your load amplifier's speaker output is connected to the Power Load™ Amp In jack. They remain operational whether the Power Load™ is powered on or off.
3. **LEVEL** – This adjusts the output level of the headphone amp output DIRECT 2 and DIRECT 1 outputs.
NOTE: This does NOT adjust the output level of the CAB THRU.
4. **PHASE REVERSE SWITCH** – Flips the phase of the audio signal 180 degrees for the DIRECT OUT 2 outputs only.

CAB + MIC SECTION

5. **IN/OUT** – This switch engages the analog CAB + MIC Emulator. You can dis-engage this section if you are using an external Impulse Response cabinet simulator.
6. **CONTOUR: LO MID, HI MID** – These speaker curve simulation controls adjust two bands of mid frequency behavior of the CAB + MIC emulator. Control range is +/- 12dB, center detent is flat.
7. **EMPHASIS** – This microphone simulation control adjusts the high frequency behavior of the CAB + MIC emulator in conjunction with the AIR/BITE SWITCH. Control range is +/- 12dB, center detent is flat.
8. **AIR/BITE** – This switch selects the type of mic and placement simulation. The AIR setting creates a more open sound (emphasizing higher frequencies), similar to an off-axis mic placement. The BITE setting creates a more pronounced top end, accentuating the upper-mid frequencies, similar to an on-axis mic placement.
9. **POWER INDICATOR L.E.D.** – Indicates when 12VDC electrical power is connected.

REAR PANEL OVERVIEW



POWER SUPPLY, GROUND LIFT AND PASSIVE USE

10. The Power Load™ functions with or without the included 12VDC Power Supply. The reactive load, voicing switches, level control and fan can operate without any external power supply. So, if you are using an external Impulse Response or any other type of external speaker simulator, you do not need to use the power supply. For Passive functionality, use DIRECT OUT 1.
The CAB + MIC emulation section does require the 12VDC power supply. For Active CAB + MIC emulation functionality, use DIRECT OUT 2.
11. GROUND LIFT – This switch separates the internal circuit ground from chassis and power ground in order to eliminate possible ground loops between the Power Load™ and other equipment. Select the position which yields quietest operation.

CONNECTING YOUR AMP

12. AMP IMPEDANCE SWITCH – 2/4, 8 or 16 ohms. This sets the impedance of the internal reactive load for optimum performance from your amplifier. Simply set the impedance selector switch for the impedance required by your amplifier.
13. AMP IN – Connect the speaker output from the amplifier that you want to use – the load amplifier – here. Set the Impedance Select switch to the desired setting to match your amplifier. The total power handling capacity of the reactive load is as follows:
Amp In (Max Continuous):
200W @ 2, 4 & 16 Ohms.
150W @ 8 Ohms

NOTE: The Power Load™ is fan cooled and the fan will start to spin slowly once the incoming power level reaches roughly 20 watts. The fan speed will increase up to its maximum once you are driving the Power Load™ to 100 watts or more continuously.

14. CAB THRU – This sends the output of your amplifier to your guitar speaker cabinet. The impedance of the cabinet should match the impedance of the amplifier, and the AMP IMPEDANCE switch on the Power Load™ should also match the impedance of the amp.

NOTE: Set this impedance to match both the speaker and the load amplifier. Most cabs have a fixed impedance and you usually have a choice of impedance on your amplifier. Therefore it is best to choose the amplifier impedance that will match your speaker cab. This will assure that your amplifier and speaker are matched correctly.

OUTPUT SECTION

15. DIRECT OUT 2: YOUR AMP + CAB + MIC EMULATION - This is your selectable Cab + Mic emulated output. The Direct Out 2 features a 1/4" unbalanced and an XLR balanced low impedance output. This section is affected by the Cab + Mic emulation, when it is engaged on the front panel.
16. DIRECT OUT 1: PASSIVE, FULL RANGE OUTPUT - This is the sound of your amp, direct, without the Cab + Mic emulation. The Direct Out 1 features a 1/4" unbalanced and an XLR balanced low impedance output. This section is ONLY affected by the Reactive Load Voicing Switches and Level control on the front panel. This is designed for direct recording your raw amp performance and can be used with an Impulse Response digital cab sim or other external speaker simulator for re-amping.
17. PHASE REVERSE SWITCH – Reverses the phase of the audio signal 180 degrees, for the DIRECT OUT 1 outputs only.

AUX INPUT SECTION

18. **AUX INPUT** – This input can be used to run preamps or pedals through the CAB + MIC Emulation of the POWER LOAD™. You can also send full range recordings through the POWER LOAD™ to add the CAB + MIC Emulation to pre-recorded tracks.
19. **AUX LEVEL SWITCH** – This switch engages a -10 dB pad on the Aux Input for use with high level or low level signal sources.

Note: When nothing is plugged into the Aux Input Jack, the Aux Level switch acts as a sensitivity pad for the front panel level control. This is ideal when running a cranked, non-master volume high-powered tube amplifier.

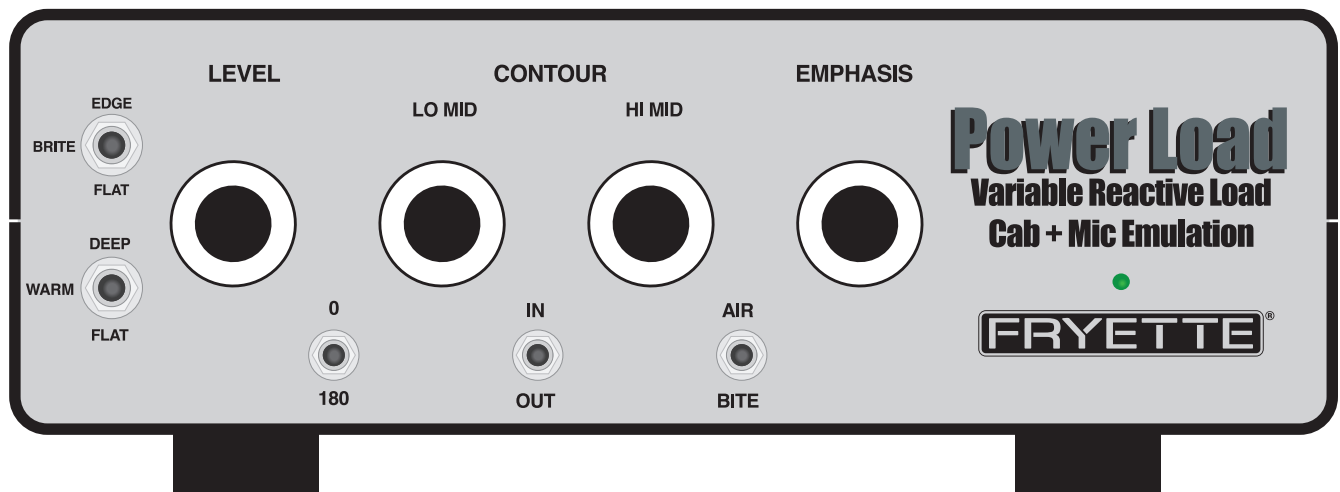
HEADPHONE FX LOOP SECTION

NOTE: This is a dedicated effects loop for the headphone out only.

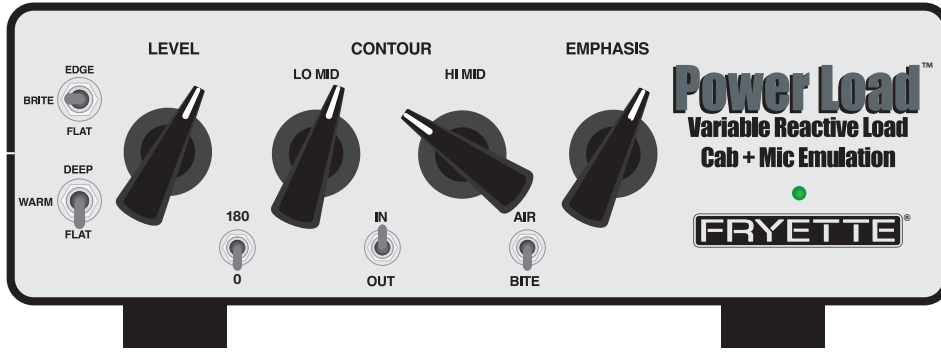
This effects loop does not feed the direct outputs. When using the Power Load™ for live performance or direct recording, place effects before your amp or after (using the mixing console inserts or digital plug ins). (See the sample set up examples in this manual).

20. **HEADPHONE JACK** – The headphone output is a 1/4" stereo headphone output. CAUTION: This professional-quality headphone amplifier is capable of high sound pressure levels. Use care when setting and adjusting volume levels during use.
21. **PROGRAM INPUT** – This is a 3.5 mm input jack for plugging in your MP3 player, tablet, smartphone, CD player or cassette deck. This input is unaffected by the effects loop, global eq, and cab + mic emulation. This input can only be heard through the headphone output. The program level in the headphones is determined by the output level control of the device being used.
22. **FX RETURN R** – High impedance effects return jack for use with external effects processor.
23. **FX RETURN L** – High impedance effects return jack for use with external effects processor.
24. **FX SEND** – Sends a buffered low impedance mono signal out to your external effects.

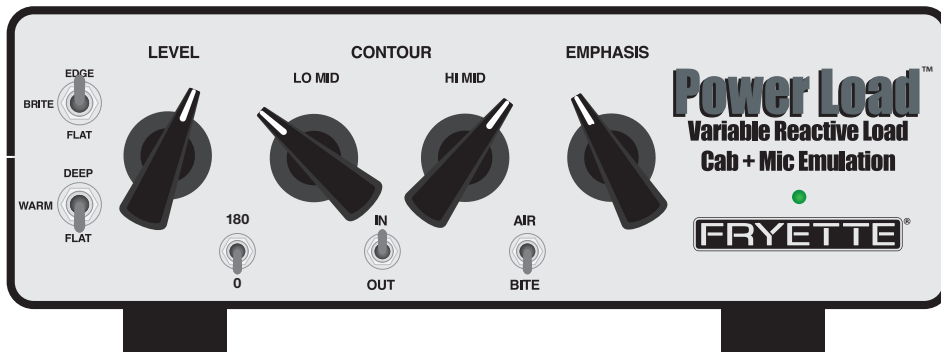
YOUR SETTINGS / NOTES



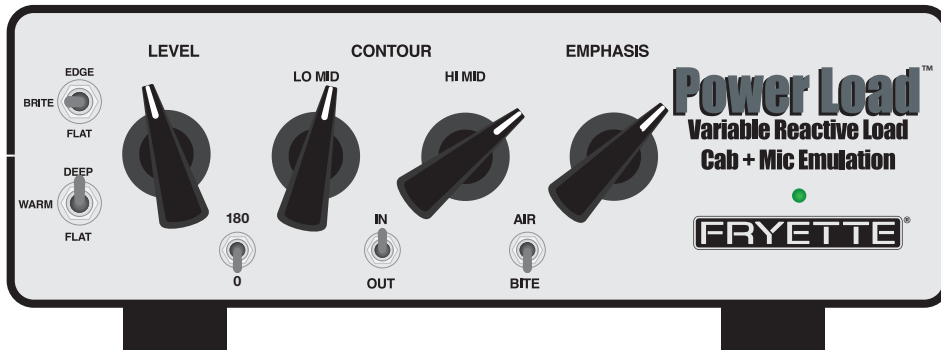
G12M



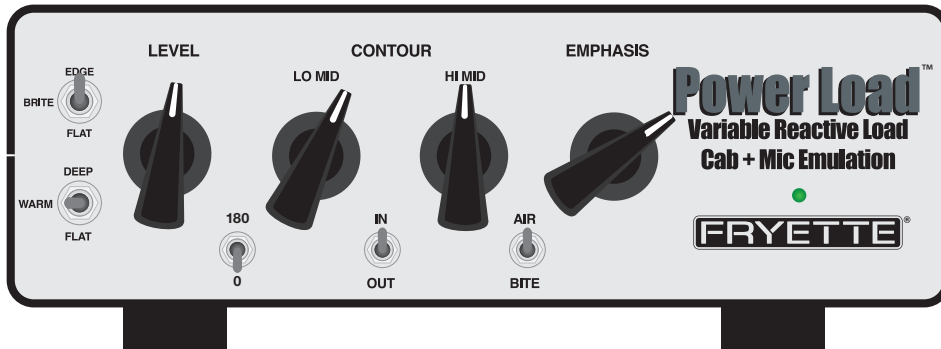
TWEED 1X12"



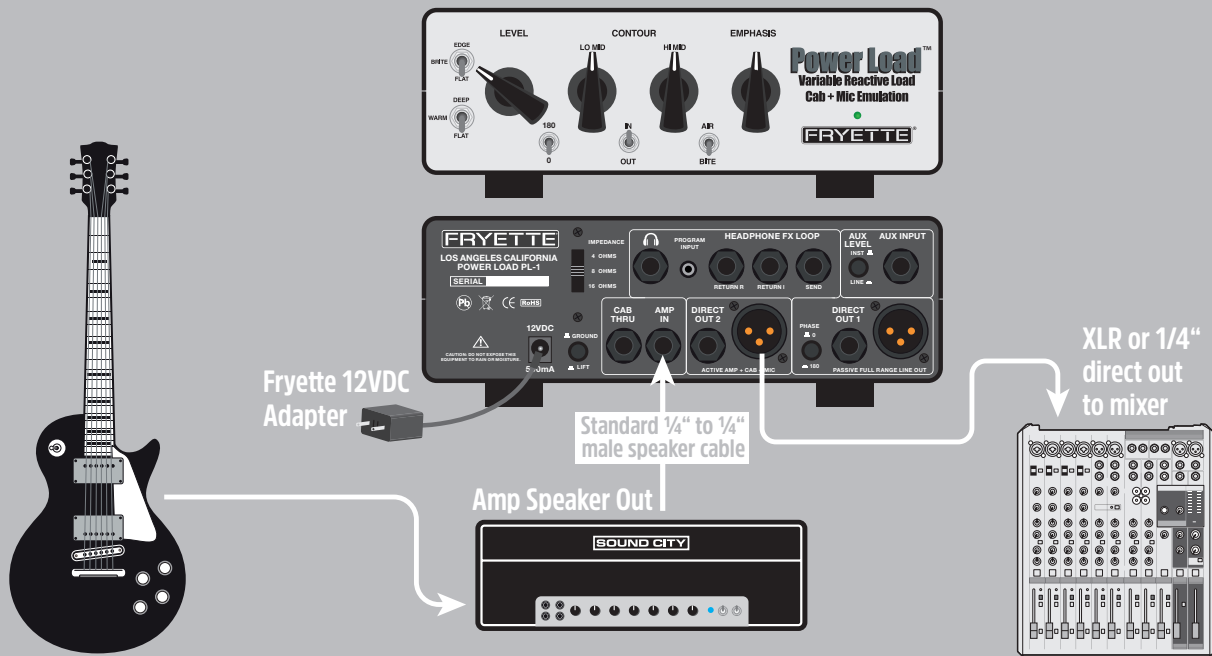
V30



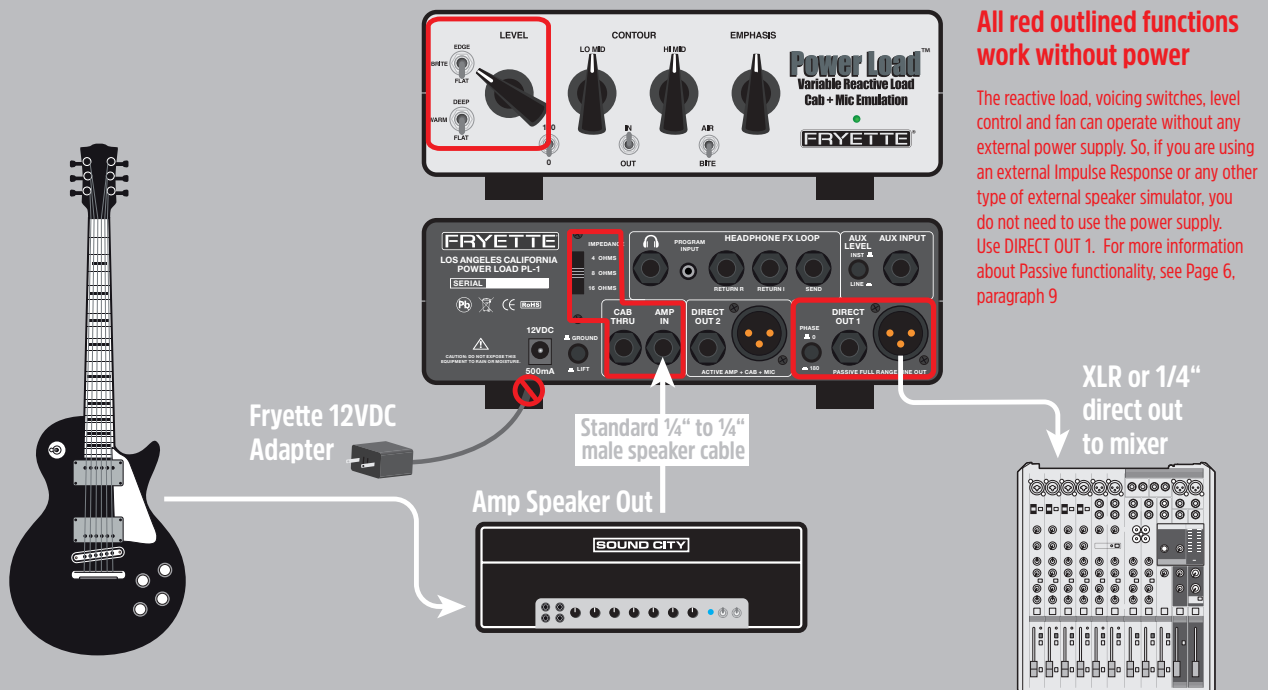
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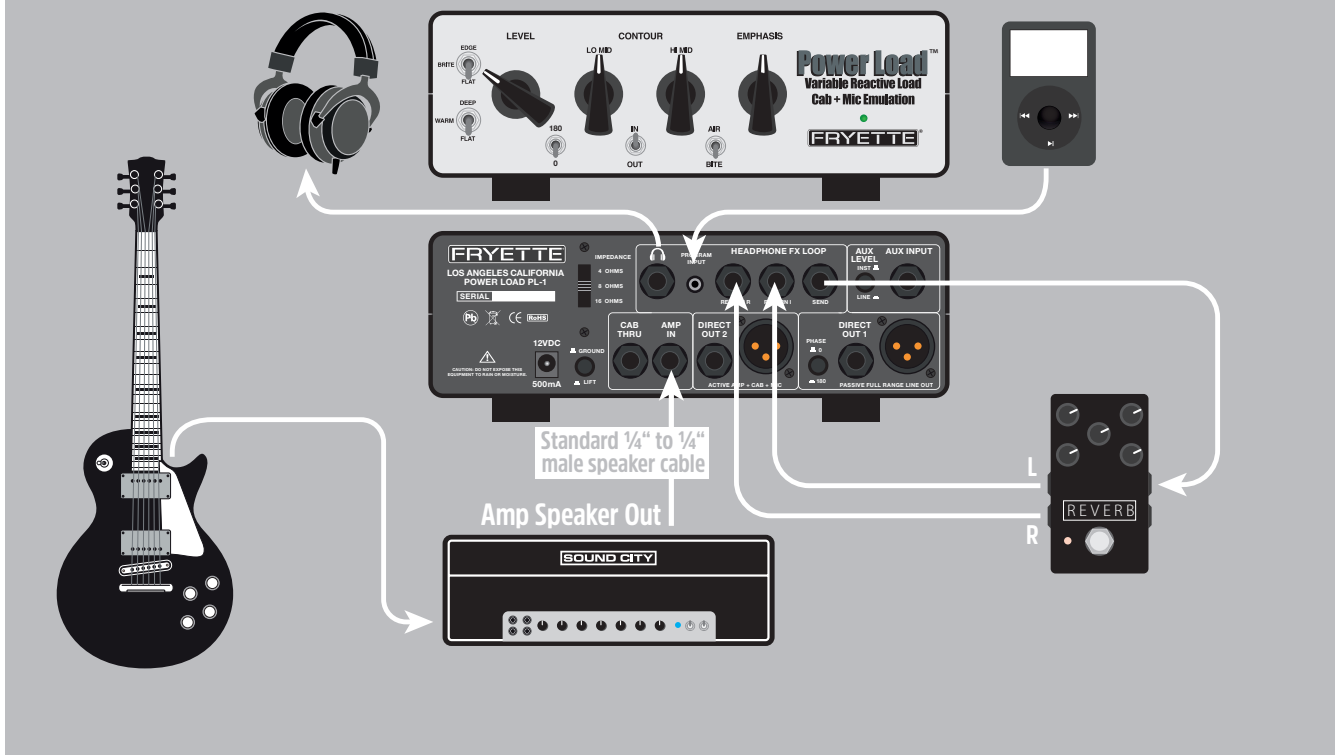
1. Direct recording (silent)



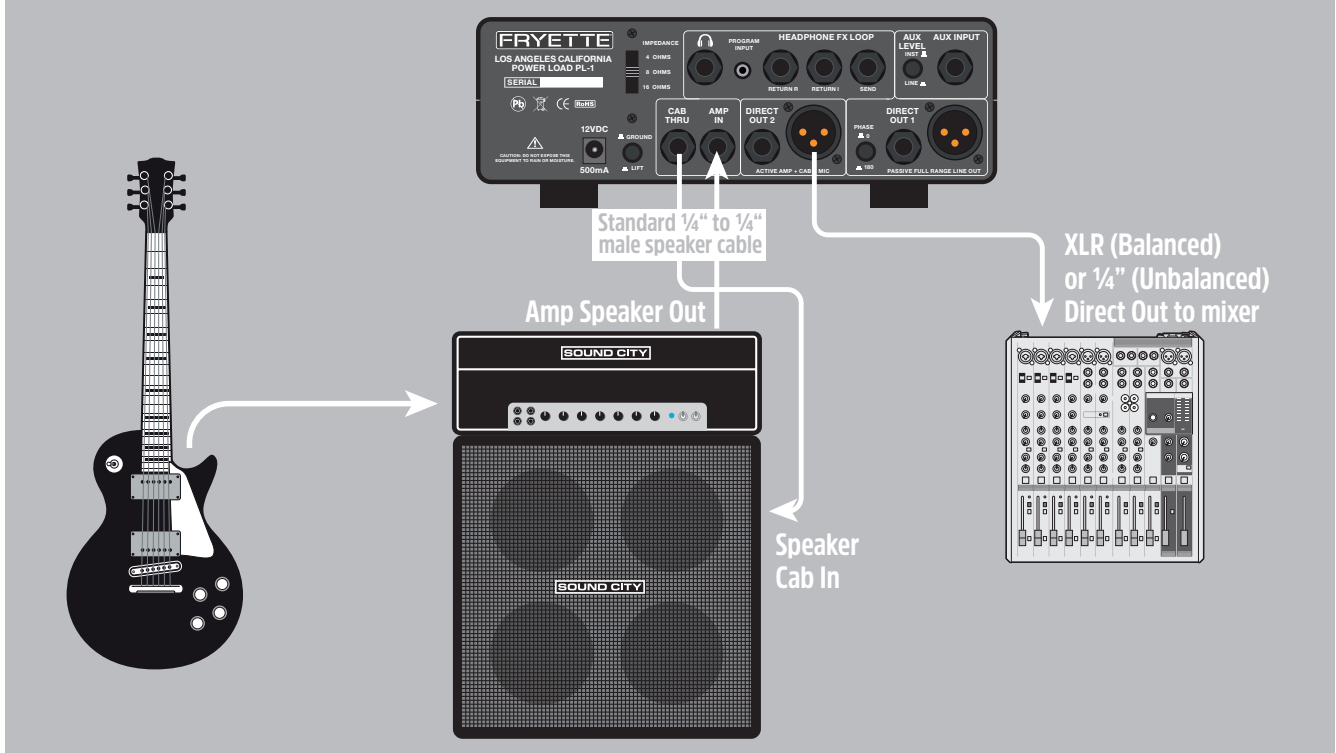
2. Direct recording (silent) passive mode – without power supply



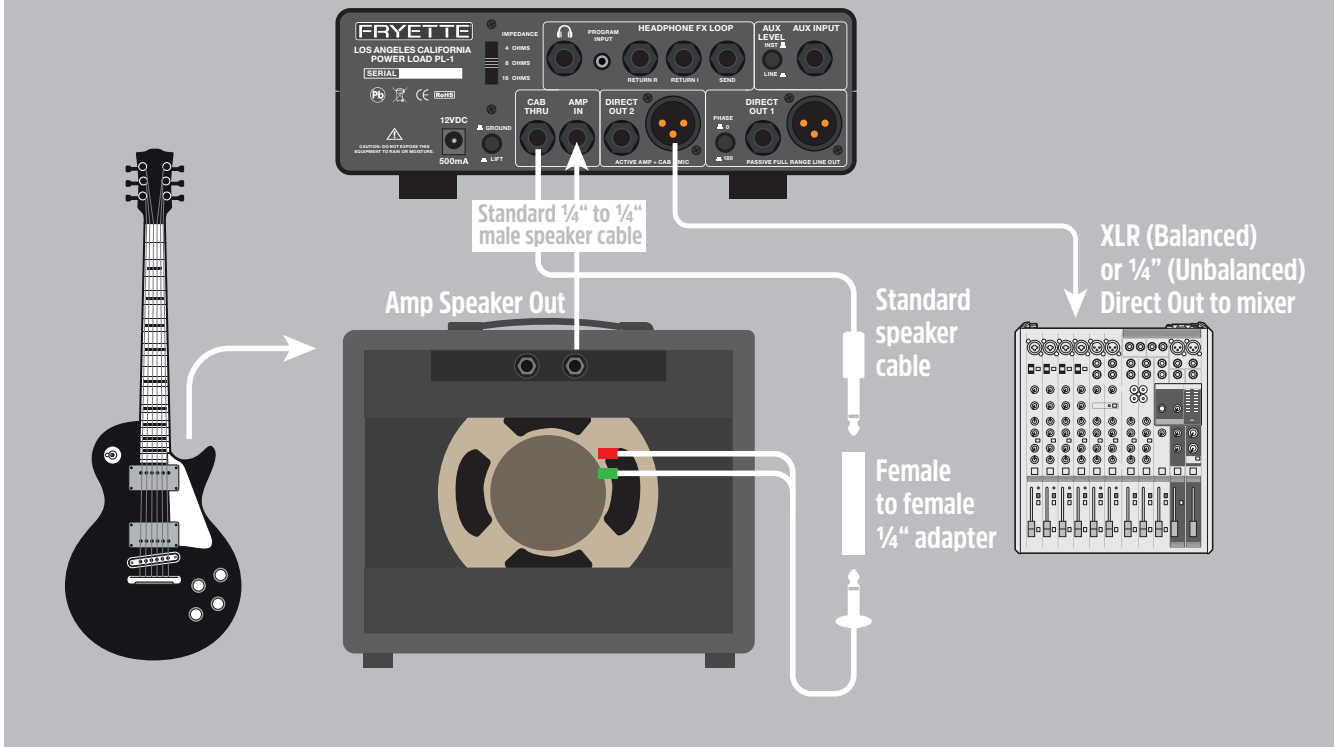
3. Practice with headphones



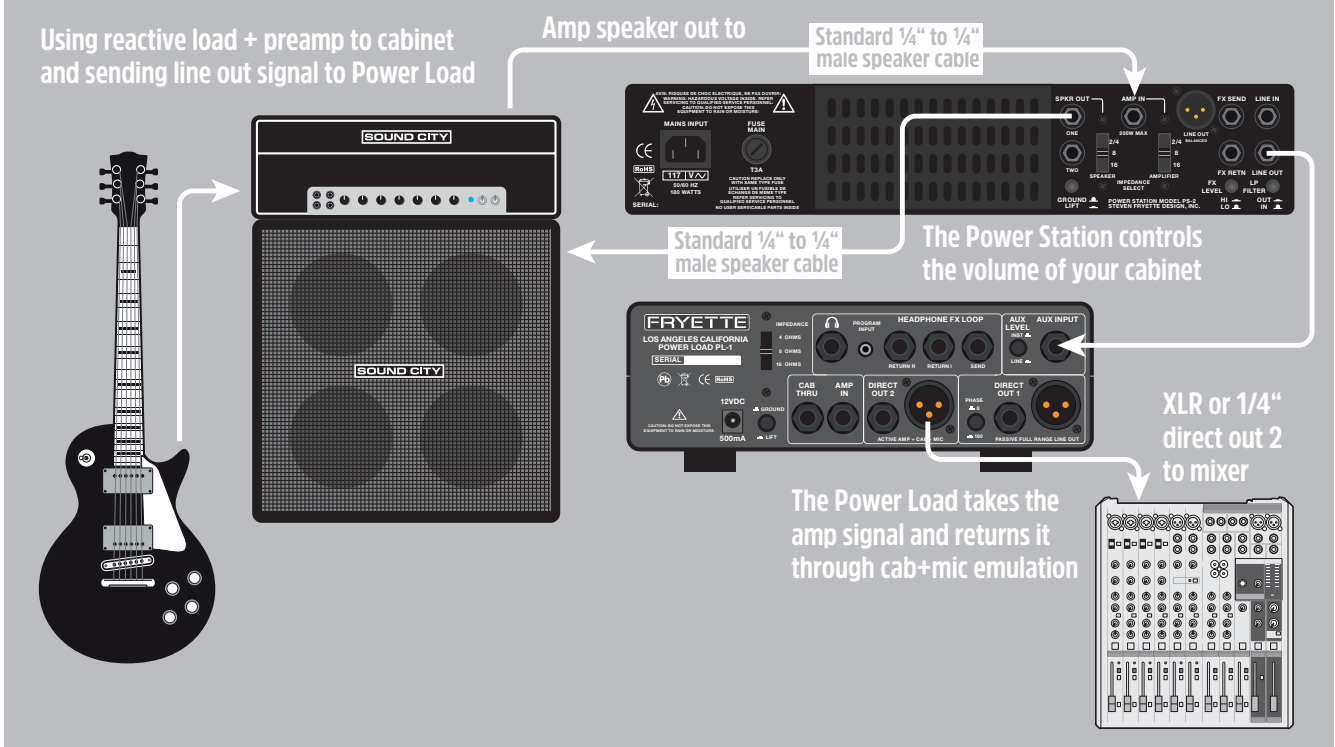
4. Direct out for live performance or recording



5. Combo amp with Power Load® direct out



6. Cab sim of Power Load® while attenuating or boosting cab with Power Station®



 **USE ONLY THE FACTORY SUPPLIED ADAPTER OR A UL APPROVED EQUIVALENT TYPE**

 **TO REDUCE THE RISK OF ELECTRIC SHOCK, PLEASE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. NO USER SERVICABLE PARTS INSIDE.**

WON'T TURN ON

1. Make sure 12V DC power supply cord is securely connected.
2. Verify the power source with something you know works.

NO SOUND/OUTPUT

1. Check input cable.
2. Check volume control.
3. Make sure your amplifier volume and/or gain controls are turned up.
4. Check speaker cables to see if they are disconnected or shorted.
5. Make sure that the impedance selector is fully engaged in its detent.
6. Check the standby switch of your amplifier.
7. Check for a blown speaker.
8. Check the mains fuse of your amplifier, and replace if necessary. If it blows again, refer to qualified service personnel.

EXCESSIVE HUM WHEN DIRECT RECORDING OR SENDING DIRECT 1 OR 2 TO FRONT OF HOUSE

1. Check Ground Lift switch (on front and back panel).

EXCESSIVE DIRECT 2 OUTPUT LEVEL AND DISTORTION

1. Make sure Level Switch on rear panel is properly set.
2. Make sure you are not overloading the input of your interface.

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. Make sure that fan is operational when amplifier is being played.

NOTE:

Always set your amplifier to standby when taking breaks and turn your 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 cable for shorts.
3. Check the speaker.
4. Check the signal level at input and other devices in the signal path or in the loop.

SPECIFICATIONS

MODEL: POWER LOAD
 MODEL NUMBER: PL-1.
 POWER REQUIREMENT: 12V DC
 INPUT IMPEDANCE: 2/4Ω/8Ω/16Ω (selectable)

DIMENSIONS:
HEIGHT: 3.2 in (8.1 cm)
WIDTH: 8.7 in (22 cm)
DEPTH: 6.2 in (15.7 cm)
WEIGHT: 4.7 lb (2.1 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 EC1907/2006 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: POWER LOAD
Model Number: PL-1

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.

Fryette Amplification
6850 Vineland Ave. Unit P
North Hollywood, CA 91605 USA



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 may register their Fryette product(s) online at www.fryette.com/support_form.aspx by selecting and completing the Warranty Registration form. 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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