

UAFX Lion '68 Super Lead Amp Manual

Preliminary version for safety compliance testing - not for public distribution

v230817B

UAFX Lion '68 Super Lead Amp Manual

This document contains complete operating instructions for the UAFX Lion '68 Super Lead Amp effects pedal from Universal Audio.



A Letter From Bill Putnam, Jr.

Congratulations on your new UAFX pedal. We know that buying any new piece of gear requires an investment of time and money, and we aim to make your investment pay off!

At UA, we are dedicated to the idea of building “instant classics” — the type of music and audio gear that delivers album-worthy sounds to inspire you for decades.

UAFX pedals represent more than 20 years of research into vintage analog effects, coupled with next-generation digital engineering and rock-solid reliability.

Please let us know how we’re doing. Feel free to reach out to us via our website www.uaudio.com, and via our social media channels.

Thank you for your support, and enjoy your sonic exploration!

Sincerely,

A handwritten signature in black ink, appearing to be 'Bill Putnam Jr.', with a stylized, flowing script.

Bill Putnam Jr.

Lion '68 Power

Note: Power supply sold separately.

UAFX pedals require an isolated 9 volt DC, center negative, 2.1 x 5.5 mm barrel connector (same as standard Boss connectors) power supply, which can provide 400 mA (milliamps) of current. Each UAFX pedal must be connected to a separate power supply, or connected to an isolated power connection from a multi-output power supply. Connect the power supply to the 9VDC connector on the pedal’s rear panel.

When you first connect your UAFX pedal to a power supply, the Effect LEDs cycle, showing that the pedal is starting up. The startup sequence takes about 15 seconds.

If power to your UAFX pedal is interrupted during operation, audio stops. UAFX Lion '68 requires power to pass audio through the pedal.

Important Power Notes

- Each UAFX pedal requires 400 mA of current. Make sure your power supply can deliver at least 400 mA to the pedal for proper operation and performance.
 - An isolated supply provides power and grounding that is electrically separated, usually by means of a transformer for each connector. Some low-cost power supplies might have separate connectors, but might not provide true ground and power isolation, causing noise and ground loop hum.
 - If your power supply has multiple outputs, make sure that each output provides true isolation, or that you connect your pedal to its own power supply.
 - It's OK to connect a power supply that can deliver more than 400 mA. The pedal only draws the current it needs and will not be damaged if the supply is 9VDC.
 - If your power supply is not isolated, you might hear additional hum in the pedal signals. If the supply cannot provide 400 mA of current, the pedal might not operate properly, even if the LEDs and switches seem to be working.
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Lion '68 Connections

UAFX Lion audio jacks accept 1/4" (6.35 mm) unbalanced TS (Tip-Sleeve) instrument cables. Although TRS (Tip-Ring-Sleeve) cables may be used, they offer no benefit over TS cables.

Your UAFX pedal senses which jacks are connected and adjusts the internal signal routing automatically. Stereo inputs are processed in true stereo, and output as either stereo or mono depending on the connected outputs.

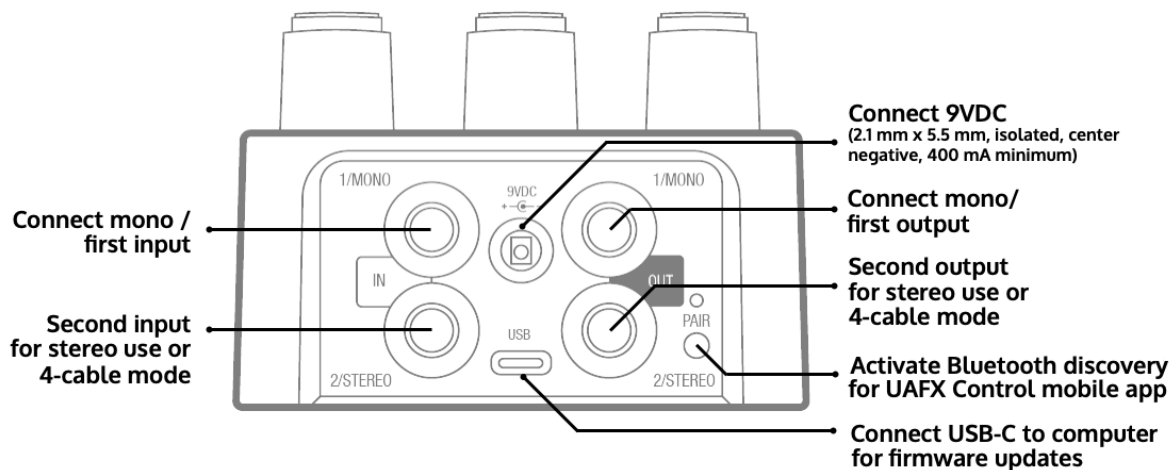
Important: You must connect to UAFX's IN 1/MONO jack. The IN 2/STEREO jack doesn't work by itself without the IN 1/MONO connection.

UAFX pedals are designed with enough headroom to easily accommodate instrument levels and amp effects loop levels, but they can also handle line-level gear such as synthesizers and

audio interfaces. The pedals are voiced for instrument levels, so you may need to reduce the line out level of the gear you're connecting into the pedals to avoid overdriving the effects.

The USB-C port is for pedal registration and firmware updates only, via the UAFX Control desktop app for Mac and Windows computers. You can connect to any type of USB port on the computer, but you may need an adapter.

The PAIR button and LED are for pedal registration and global pedal settings (bypass and footswitch modes) only, via the UAFX Control mobile app.



Lion '68 Operation

Live Mode and Preset Mode

Lion '68 is set up in Live | Preset mode by default. You can use the UAFX Control mobile app to change footswitch assignments.

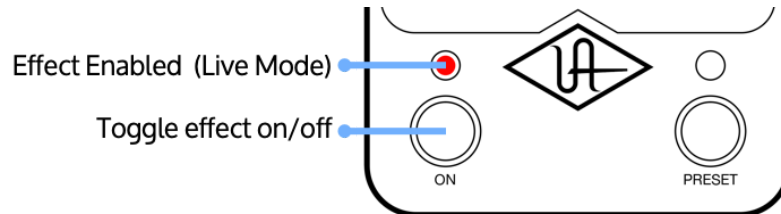
In Live mode, the sound reflects the current positions of the knobs, switches, and LEDs on the pedal, and the left footswitch toggles the Live mode effect on/off.

In Preset mode, you hear the settings that are stored as a preset, and the current positions of the knobs and switches do not reflect the sound. Instead, all knob and switch positions are internally set to their stored positions, and the right footswitch toggles the preset effect on/off.

You can store a preset you've made with your own settings by holding down the STORE switch until the green PRESET footswitch LED blinks rapidly (about 0.5 seconds)

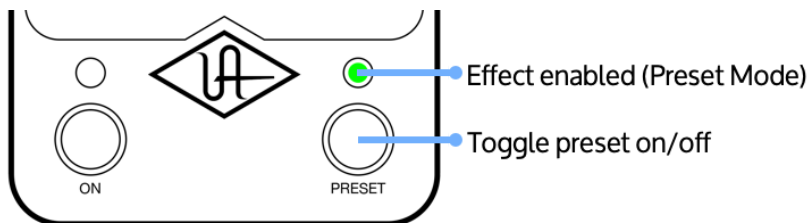
Live Mode

To enter Live mode, press the left footswitch. Press the left footswitch again to toggle the live effect on/off. The left footswitch LED is lit red when the Live mode effect is on.



Preset Mode

To enter Preset mode, press the right footswitch. Press the right footswitch again to toggle the preset on/off. The right footswitch LED is lit green when the preset is on.



Note: The left and right footswitch functions can be changed in the UAFX Control mobile app.

Stored Preset

You can store a preset on your UAFX pedal, and recall it using the right footswitch. All presets you store, and other artist and factory presets, are available in the UAFX Control mobile app.

When you store a preset while in Live mode, the position of all knobs and switches on the pedal are saved. When you make a great sound in Live mode, storing it is as easy as holding down the STORE switch until the green PRESET footswitch LED blinks rapidly (about 0.5 seconds).

When you store a preset while in Preset mode, only those knobs and switches that have changed since you loaded the preset are saved. So, when saving in Preset mode, what you hear is what is saved, and not the current positions of the knobs and switches.

To store your sound as a preset

1. Set your sound as you want it stored in the preset.
2. Press and hold the STORE switch in the down position until the green PRESET footswitch LED blinks rapidly (about 0.5 seconds).

Preset Notes

- The settings for Preset mode and Live mode are completely independent.
 - When you move a knob or switch in Preset mode, the settings for the sound immediately jump to the new knob or switch position.
 - You can view and audition all of your pedal's presets with the UAFX Control mobile app.
 - Presets can only be stored when the pedal is not bypassed.
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Lion '68 Controls

The following controls are available on Lion '68.

Volume I (VOL I) and Volume II (VOL II)

Adjusts the amp's channel I and channel II gain. Channel I is brighter and more aggressive as you turn it up, and channel II is darker, with more bottom end. As you increase one or both volume controls, the character of the amp changes, becoming much more saturated and distorted.

Lion's channels are automatically "jumped," creating a fuller, more saturated sound, and allowing you to adjust the brighter and darker gain components of the sound.

To use Volume I or Volume II independently, turn the other channel volume completely down.

Note: These are the volume controls on the original amp. For clean "post-amp" volume adjustments, use the Output control.

Master

Adjusts the output level from the pedal. When the Master volume is set at noon (running direct or into other pedals), it should be roughly the same level as your bypassed volume.

The master volume allows you to set the level for your setup.

Bass / Room

Adjusts two different settings, depending on the position of the Alt / Amp / Store switch.

- AMP mode: Reduces the low frequency response of the amp's tone stack.
- ALT mode: Adjusts the amount of room tone mixed into the signal.

Notes and tips

- Room amount only affects your sound when you use a speaker cabinet. When the speaker cabinet is bypassed, Room has no effect. The Speaker LED blinks rapidly to indicate the knob is inactive.
- Set Room to noon for a good starting point, and add or remove room to taste. Setting Room fully off is like recording your amp in an isolation booth. Turning up the Room knob adds ambience from the room microphones set up in the tracking room of a studio.
- There is no fully wet Room sound.

Middle / Presence

Adjusts two different settings, depending on the position of the Alt / Amp / Store switch.

- AMP mode: Adjusts the mid frequency component of the amp's tone stack.
- ALT mode: Adjusts the amp's high end presence tone component.

Middle and Presence use Notes

- The Middle control can have a lot of impact. Reduce the mids for Fender-style scooped tones. Increase the mids for more lead impact and warmth.
- The Presence control controls the overall brightness and gain of the power amp section in the original amp. Increase presence to add more available gain and edge to the sound.

Treble / Boost

Adjusts two different settings, depending on the position of the Alt / Amp / Store switch.

- AMP mode: Adjusts the high frequency component of the amp's tone stack.

- ALT mode: Adjusts the amount of boost applied to the amp circuitry. See Lion '68 Models for details about the available boost types for each amp model.

Note: To bypass the boost circuit, set Boost to the minimum setting.

Cab

Push this switch up or down to change the speaker cabinet and microphone. When you push the switch repeatedly in the same direction, the pedal cycles through all available speaker cabinets.

Tip: Register your pedal to get free bonus speaker cabinets.

Cab Type LED

The currently selected speaker cabinet is indicated by this LED. A red LED indicates that the effect printed on the pedal is selected. A bonus speaker cabinet is selected when an LED is green (the bonus speaker cabinets don't have labels).

When the LED is off, the amp is active but no speaker cabinet simulation is applied.

Tip: When playing through a real guitar amplifier and speaker cabinet, you might want to bypass the speaker cabinet emulation by pressing the pedal's Speaker switch until its LED is unlit.

Alt / Amp / Store

In AMP mode, the standard knob controls are available for the amp.

In ALT mode, room amount and vibrato speed and intensity controls are available on the Bass, Treble, and Boost knobs.

To store a preset, press and hold the ALT/AMP/STORE switch in the down position until the green PRESET footswitch LED blinks rapidly (about 0.5 seconds).

Model Switch

Lion '68 includes three channels, each of which provides different amp character and features. The boost type is also unique to each channel.

Use the Model switch to select the amp model, and the Boost knob to push the input of the amp for more added gain. See Lion '68 Models for more details about the channels.

- BASS is based on the classic 100 Watt “Super Bass” amplifier. The Super Bass is great for cleaner tones, fat rhythm tones, and bass. Often chosen by guitarists for its smoothness, richness, and ability to take pedals. All of your Hendrix dream tones are in here. The Boost knob adds gain from an [xyz].

- LEAD is based on the classic 100 W “Super Lead” amplifier. Similar in design to the Super Bass, but with a big reduction in bottom end and an increase in available gain, the Super Lead is where rock rhythm guitar tones live. Lots of crunch, no flabbiness, even some saturation when pushed hard. The Boost knob adds gain from [xyz].
- BROWN takes the Super Lead to a higher gain level, employing several signal chain changes including a Variac to reduce the voltage and an EQ pedal and boost to create a classic hot rodded sound that countless players have sought after and employed on many records. The boost knob adds gain from [xyz].

Note: When the Boost knob is rotated fully counter-clockwise, no boost is applied.

Left Switch LED

By default, the left footswitch LED is lit red when Live mode knob and switch settings are active.

Other states for the left footswitch LED are detailed in the table below.

Left Footswitch

By default, press to toggle the Live mode sound on/off with the current knob and switch settings.

This footswitch can also toggle other options, depending on the footswitch mode, as detailed in the table below.

Preset Footswitch LED

The preset footswitch LED is lit green when stored settings are active. There are other modes for the right footswitch LED, as detailed in the table below.

Right Footswitch

By default, press to toggle the Preset sound on/off.

This footswitch can also toggle other options, depending on the pedal footswitch mode, as detailed in the table below.

Footswitch modes

With the UAFX Control mobile app, you can change the operation of your pedal and your pedal’s footswitches for your amplifier setup and performance preferences.

For more information on footswitch modes and how to enable them, see the [UAFX Control App Manual](#).

Lion '68 Cabs

Each speaker, cabinet, and mic setting has a unique sound. Toggle up or down through the list with the Speaker switch. When you register your pedal with UAFX Control software, you get three free bonus cabs (green LEDs).

Note: The speaker cabinet labels on the pedal apply only when that speaker switch's LED is red. The labels when the LED is green are only visible in the UAFX Control mobile app.

Lion '68 Boosts

Each boost has a unique sound and effect. You increase the amount of gain and the effect of the boost by rotating the Boost knob clockwise. When the boost knob is turned all the way down to OFF, the boost is transparent and has no effect on amp color and gain. As the boost knob is turned up

Lion '68 Specifications

Note: All specifications are subject to change without notice.

Power requirements (power supply sold separately)	Isolated 9VDC, center-negative, 400mA minimum
Inputs	2 x ¼" unbalanced TS (input 2 for stereo connections)
Outputs	2 x ¼" unbalanced TS (output 2 for stereo connections)
Input impedance	500 Kilohms (Mono In) 1 Megohms (Stereo In)
Output impedance	500 Ohms

Maximum input level	12.2 dBu
Maximum output level	12.1 dBu
Frequency response	20 Hz to 20 kHz, ± 3 dB
USB Type-C	For registration and firmware updates via computer
Wireless technology Transmitted Frequency Range Maximum Output Power	Bluetooth v5 2.402 – 2.480 GHz +4.35 dBm
Dimensions (with knobs and protrusions)	Height: 2.56 inches, 6.5 cm Width: 3.62 inches, 9.2 cm Depth: 5.55 inches, 14.1 cm
Weight (unboxed)	1.34 lbs 0.605 kg

Lion '68 Safety



Caution: To help maintain the safety of your product, the chosen power supply must be a certified power supply complying with Limited Power Source (LPS) requirements with the following characteristics and electrical ratings: Isolated 9VDC, center-negative, 400 mA minimum, 2.1x5.5 mm barrel connector. Additional details at help.uaudio.com.



Before using this unit, be sure to carefully read the applicable items of these operating instructions and the safety suggestions. Afterwards, keep them handy for future reference. Take special care to follow the warnings indicated on the unit, as well as in the operating instructions.

- Read the instructions.
- Keep these instructions.
- Heed all warnings.

- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use with attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.
- This equipment does not contain a fuse or any other user-replaceable parts.
- A compliance marking label is provided on bottom of the unit.

United States Class B Manual Statement

NOTE: This equipment has been tested and found to comply with the limits for a 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 the 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.

Japanese Class B Manual Statement

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としています が、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。VCCI-B

(This is Class B equipment. Although this equipment is intended for use in residential environments, it could cause poor reception if used near a radio television receiver. Please follow instructions in the instruction manual.)

License exempt. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Taiwan NCC Warning Statement

本公司產品取得NCC 低功率射頻器材審驗證明依據「低功率射頻器材技術規範」之新警語如下：「取得審明之低功率射頻器材，非經核准，公司、商號或使用均不得擅自變更頻率、加大功率或變更原設計之特 及功能。低功率射頻器材之使用不得影響飛航安全及干擾 合法通信；經發現有干擾現象時，應立即停用，並 善至無干擾時方得繼續使用。」

The company's products have obtained the NCC low-power radio frequency equipment verification certificate according to the new warnings of "Low-power radio frequency equipment technical specifications" as follows: "The low-power radio frequency equipment that has obtained the verification certificate shall not be changed by the company, firm or user without approval. Frequency, increase power, or change the features and functions of the original design. The use of low-power radio frequency equipment shall not affect flight safety and interfere with legal communications; continue to use.



Used electrical and electronic equipment should not be mixed with general household waste. Please dispose in accordance with local regulations.

This device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

Changes or modifications made to this equipment not expressly approved by Universal Audio and may void the FCC and IC authorization to operate this equipment.

- IEC 62368-1
- FCC ID: 2AXKQ2077
- IC: 26610-2077

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