



PO100 - Tube Guitar Amplifier



Hello from LAA-CUSTOM!!

Congratulations on purchasing this incredible guitar amplifier designed in Italy by Carlo Sorasio one of the most well known amp modders and designers in Italy and on business since 2007.

The PO100 is 100Watts EL34 powered with two channels able to cover all tones from an open clear clean to a powerful crunch and massive distortion. Always amazing dynamic response, fast attack with rich harmonics and body and a knockout punch!

The PO100 takes pedals very well and loves boosts, OD's, phasers, flangers, tremolos, wahs, etc. The PO100 also has an ultra transparent tube Series FX loop that takes time based FX pedals and rack units equally well.

PLUGGING IN

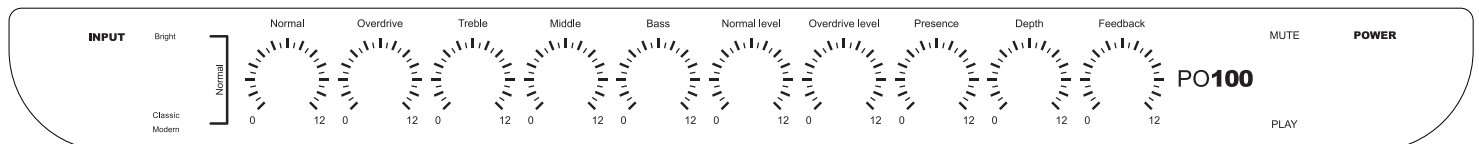
We recommend starting the amp on the Normal channel with the Bass, Mids and Treble at 5, the Presence at 7, Depth at 3 and Feedback at 12.

Set the Normal around 4 and Overdrive at 6 then bring the masters up to taste.

After plugging in, you will notice instantly, the tight bottom-end, very focused mids and detailed chords and single notes, that's the LAA-CUSTOM sound. This amp cleans up remarkably well with the guitar's volume control even with the amp on higher gain settings.

We know you will love your new PO100. If you have any questions or help don't hesitate to email us at info@laa-custom.com or call us at +39 347 139 1556 (GMT +1 time)

FRONT PANEL



INPUT - Connect your input jack here

Normal Channel - From clean to light crunch. Only on this channel you have the BRIGHT switch and the CLASSIC/MODERN switch. Classic has more headroom for clean, Modern is loudness and fat tone. NORMAL pot is the gain and the NORMAL LEVEL pot is the master volume for this channel.

OVERDRIVE CHANNEL - Distortion, but not only. This channel has an incredible dynamic, that allows you to reach clean tone from the crazy distorted one. OVERDRIVE pot is the gain and OVERDRIVE LEVEL is the master volume for this channel. On the Overdrive there is a footswitchable compression boost that allows sustain and definition on single notes.

EQ - This standard three-band eq is shared on both channels.

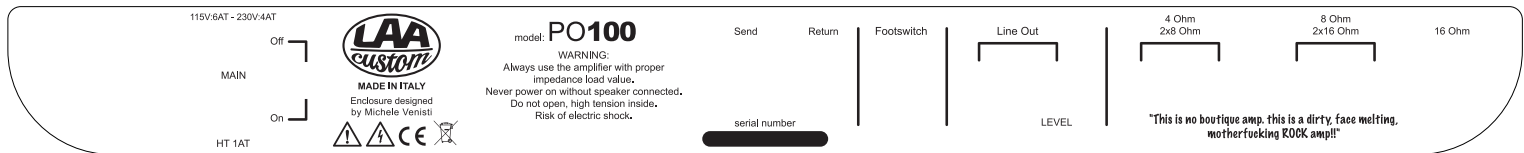
PRESENCE - Adjusts the upper mids and highs in the power amp section. Start at about 5-6 and adjust to taste.

DEPTH - Adjusts the bottom end in the power amp section. Start at about 2-3 and adjust to taste.

FEEDBACK - Adjust the dynamic response in the power amp section. Very tight at low setting, opened and fast on 12!

MUTE/PLAY - This is the Standby switch, to be used only during the power on. Don't keep in Standby for long time thinking about heating up, you just use tubes like lamps. If you want to heat it switch on and keep low the master volume.

BACK PANEL



MAIN AC - Connect your power cord here - **Always insure the amplifier is properly grounded.**

ON/OFF - Turn this ON for about one minute before taking the amp out of Standby for maximum tube life.
ALWAYS MAKE SURE THERE IS A SPEAKER LOAD CONNECTED TO YOUR AMP BEFORE TURNING ON.

MAIN FUSE - This is the main fuse. Replace only with type indicated on rear panel. This is also most likely the result of a bad tube. Constant blowing of this fuse (even when using new tubes) is an indication that something could be seriously wrong with your amp. **STOP and call us so we may help you diagnose.**

HT FUSE - Only replace with Type indicated on rear panel. If this blows, don't freak out too much. It's most likely a bad power tube. We recommend you carry a few spare fuses and a spare set of tubes when gigging.

SEND - This is where you plug the INPUT of your Effect(s). Use a high quality shielded guitar cable.

RETURN - This is where you plug the OUT of your Effect(s). Use a high quality shielded guitar cable.

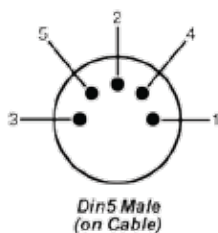
FOOTSWITCH - This is where you plug in the footswitch. It is a standard 5 pole midi din, but it is not a MIDI port.

Channel Select - You can manually select between normal/overdrive channel. Should be on overdrive for be footswitchable.

LINE OUT - Take you signal here for a tri-amping or recording session (always keep the speaker load or a dummy load connected, for recording use a good speaker simulator).

- some heads have a cool mod here - the **LEVEL** pot is the control for the **SOLO BOOST**, activable by the **LINE OUT** jack with a standard jack (should be not grounded). This mod is able to give 5dB of clean boost, the boost is on the return stage, so this will no affect your send level or the fxs placed in the loop fx.

SPEAKER OUT JACK (5) - Plug speaker cabinets here. Use the right ones that match with your cabinet.



- 1 - Ch.2 Boost
- 2 - Ground
- 3 - Ch.2 Boost
- 4 - 5VDC
- 5 - Channel select

Channel select - close pin 5 on pin 2

Overdrive Boost - Close pin 1 on pin 3

The 5VDC on pin 4 are just for the led on the PO100 Footswitch

PO100 SPEC

LxHxD - 630 x 250 x 250 mm

WEIGHT - 23 Kg

Preamp tubes - 4x 12AX7 or ECC83

Power amp tubes - 1x 12AX7 or ECC83; 4x EL34

WATTAGE - 100WRMS

BIAS PROCEDURE - Ask at info@laa-custom.com the correct procedure. Must be done only by qualified technician

LAA-CUSTOM LIMITED LIFETIME WARRANTY

Thank you for choosing LAA-CUSTOM. LAA-CUSTOM manufactures some of the world's most reliable hand-wired, all-tube amplifiers and speaker cabinets. We take great pride in an extremely thorough testing procedure, which is implemented on each product prior to shipment. In the unlikely event that you have a problem with your amplifier, please refer to warranty below. LAA-CUSTOM stands behind our products like no other and we're here to help you!

AMPLIFIERS: LAA-CUSTOM offers a limited lifetime warranty to the original purchaser that a LAA-CUSTOM amplifier will be free from defects in material and workmanship. A dated sales receipt will establish coverage under this warranty, PLEASE KEEP YOUR PROOF OF PURCHASE TO USE YOUR WARRANTY. This warranty does not cover service or parts to repair damage caused by accident, neglect, abuse, normal wear, disaster, misuse, abuse, over-powering, negligence, inadequate packing or shipping procedures and service, repair or any modifications to the product which have not been authorized or approved by LAA-CUSTOM in writing. ANY MODIFICATION TO THE AMPLIFIER WILL VOID YOUR WARRANTY. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement by LAA-CUSTOM as provided below.

CAUTION: Do NOT attempt to repair, modify or service your amplifier by yourself!!! Please read the instruction manual for all safety notifications, warnings and instructions. LAA-CUSTOM, like all tube amplifiers, has extremely high voltages that can cause serious injury or death. Do not remove the chassis from the amplifier. All repair and service work must be performed by LAA-CUSTOM or an authorized service center of LAA-CUSTOM. ANY UNAUTHORIZED REPAIRS WILL VOID YOUR WARRANTY.

TUBES: LAA-CUSTOM warrants the original purchaser that the specific tubes used in LAA-CUSTOM will be free from defects in material and workmanship for a period of 60 days from the original date of purchase. A dated sales receipt will establish coverage under this warranty. This tube warranty will automatically terminate 60 days after the original retail sales date. This tube warranty is in lieu of all other expressed warranties. If tubes fail within the 60 day warranty period your sole remedy shall be replacement of tubes as provided below.

RETURN PROCEDURES: In the unlikely event that a defect occurs please call us at +393471391556 (GMT +1) or send us an email at info@laa-custom.com. In most cases we can help you diagnose the problem. If a product must be sent to us, please follow the procedure outlined below.

- Defective products must be shipped, together with proof of purchase, freight pre-paid and insured to the Authorized LAA-CUSTOM Service Center or directly to LAA-CUSTOM.
- If a product must be returned to LAA-CUSTOM for warranty replacement/repair, a Return Authorization Number must be obtained from us prior to shipping the product.
- Please contact LAA-CUSTOM for the Authorized LAA-CUSTOM Service Center nearest you.
- Products must be shipped in their original packaging or its equivalent; in any case, the risk of loss or damage in transit is to be borne by the purchaser.
- The Return Authorization Number must appear in large print directly below the shipping address.
- Always include a brief description of the defect, along with your correct return address and telephone number.
- When calling to inquire about a returned product, always refer to the Return Authorization Number.

If LAA-CUSTOM determines that the unit was defective in materials or workmanship at any time during the warranty period, LAA-CUSTOM has the option of repairing or replacing the product at no additional charge, except as set forth below.

- All replaced parts become a property of LAA-CUSTOM. Products replaced or repaired under this warranty will be returned via ground shipping within the Europe freight prepaid.
- LAA-CUSTOM is not responsible for costs associated with expedited shipping, either to LAA-CUSTOM or the return of the product to the customer.

All warranty repairs outside Italy must be directed to the dealer or distributor from which you purchased the product.

INCIDENTAL OR CONSEQUENTIAL DAMAGE: In no event will LAA-CUSTOM be liable for any incidental or consequential damages arising out of the use or inability to use of any LAA-CUSTOM product, even if a LAA-CUSTOM dealer has been advised of the possibility of such damages, or any other claim by any other party. This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state.

FOR YOUR PROTECTION: Please complete the warranty registration online at <http://www.laa-custom.com/it/registrazione-prodotti.html> within (10) ten days of the date of purchase so that we may contact you directly in the event a safety notification issued.

CUSTOMER SUPPORT: Our dedicated and friendly staff is ready to help you with any warranty or product questions you may have. Email us at info@laa-custom.com

Thank you again for choosing LAA-CUSTOM and we look forward to a long relationship!

IMPORTANT SAFETY INSTRUCTIONS

Read these 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 sources 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. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

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 attachments/accessories specified by the manufacturer.

Unplug this apparatus during lightning storms or when unused for long periods of time.

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.

To insure proper ventilation always make sure there is at minimum four inches (101.6mm) of space behind the rear of the apparatus. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. Do not impede ventilation by placing objects on top of the apparatus which extend past the rear edge of its cabinet.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The AC plug is the mains disconnect. The plug should remain accessible after installation.

WARNING EU: permission from the Supply Authority is needed before connection.

WARNING Always make sure proper load is connected before operating the amplifier. Failure to do so could pose a shock hazard and may result in damage to the amplifier.

Do not expose amplifier to direct sunlight or extremely high temperatures.

Always insure the amplifier is properly grounded. Always unplug AC power cord before changing fuse, tubes or removing chassis. Use only same type and rating when replacing fuse.

Avoid direct contact with heated tubes. Keep amplifier away from children.

To avoid damaging your speakers and other playback equipment, turn off the power of all related equipment before making the connections.

Do not use excessive force when handling buttons, switches and controls. Do not use solvents such as benzene or paint thinner to clean the unit.

Always connect to an AC power supply that meets the power supply specifications listed on the rear of the unit. Export models: always insure unit is wired for proper voltage. Make certain grounding conforms with local standards.

YOUR AMPLIFIER IS LOUD! EXPOSURE TO HIGH SOUND VOLUMES MAY CAUSE PERMANENT HEARING DAMAGE!



Via Nicola Porpora 7 - 10155 - Torino (TO) - ITALY

+39 347 139 1556 (GMT+1)

info@laa-custom.com