



JET CITY AMPLIFICATION



- DANGER: RISK OF ELECTRIC SHOCK. DO NOT OPEN.
- ATTENTION: RISQUE DE CHOC ELECTRIQUE!
- NE PAS OUVIR!
- ACHTUNG: STROMSCHLÜG GEFÄHRDUNG NICHT AUFMACHEN!

CAUTION: To reduce the risk of electric shock, do not remove cover or open rear panel. No user serviceable parts inside: refer handling to qualified personnel.

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



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to the important operating and maintenance instructions in the following document.

IMPORTANT SAFETY INSTRUCTIONS:

1. Read and keep these instructions.
2. Heed all warnings and follow all instructions.
3. Do not operate near water.
4. Clean only with a dry cloth.

8. Do not defeat the safety purposes 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 third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the outdated/obsolete outlet.
9. Use only attachments/ accessories specified by the manufacturer.
10. Unplug the amplifier during lightning storms or when unused for long periods of time.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power cable or plug damage, 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.

CONGRATULATIONS!

You have just purchased the legendary and mysterious '333' tone that many refer to as the 'voice of god'.

Your JCA100HDM was designed by the world-renowned tube amp designer Mike Soldano, in SEATTLE, WASHINGTON, and meticulously assembled to assure that it meets the highest quality standards and value.

Whatever your musical taste may be, you will enjoy the versatility, portability, and long-term durability of this kick ass, tube driver rock tone factory.

Wait, huh, what? You didn't buy the JCA48S - 4x12 extension cabinet yet? Huh? No stack? What will your new '333' head sit on?

Please go back and buy one; you deserve the whole enchilada, my friend. You've come this far, so we know you can do it. The JCA is loaded up with Eminence™ Legend speakers, which as we all know, are the preferred speakers of our beloved designer.

Thank you for purchasing a JET CITY AMPLIFICATION product.

BEFORE YOU ROCK

Before operating your JCA100HDM please make sure of the following:

- First, plug the JCA100HDM head into a speaker cabinet.
- Plug the power cable into the back panel and plug the cable into a power receptacle. Turn on the power switch on the amplifier and wait about 30 seconds for the tubes to warm up.
- Turn on the standby switch.
- Turn up your volume switch on your guitar and impress your friends with your amazing new tone.



WARNING: If a speaker or suitable “dummy load” is not plugged into the speaker jack, output transformer failure will occur. OUCH! This is not good and NOT covered under warranty.

WELCOME TO JET CITY

The Jet City Amplification JCA100HDM is a 100 watt, 2-channel guitar amp head with independent preamp and master volume controls for each channel. You can also operate the amp at 50 watts with the simple flip of a switch.

The tone controls shape the sound of both channels and are interactive which means that each control will affect the others. This gives you the flexibility to dial in all the unique and subtle tones you've been searching for.

The Jet City Amplification JCA100HDM also has a global presence control that lets you add high-end sparkle to both channels PLUS a depth control that does the same for the low end. Other features include a line level series effects loop, multiple speaker impedance outputs, and a channel footswitch jack (footswitch included).

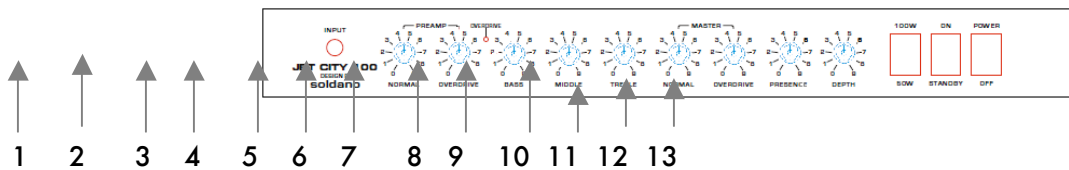
GENERAL OPERATION

- **NORMAL Master Volume:** will let you adjust how loud the NORMAL Channel's output will be.
- **OVERDRIVE Master Volume:** will let you adjust how loud the OVERDRIVE Channel's output will be, independent of the NORMAL Master Volume.

The JCA100HDM includes a **BREATHING** control that can be highly useful when trying to dial in a clean, warm tone. **BREATHING** adds a controlled brightness, which can be highly useful when trying to dial in a clean, warm tone. **DEPTH** enhances the amplifier's low-end frequencies to give extra heaviness to your sound. The two independent preamp and master controls give you great stage versatility by allowing you control over each channel's gain level AND individual output levels.

FEATURES

- 2-Channels with independent preamp and master volume controls Normal and Overdrive
- 100 watts of tube power
- Tube-buffered serial effects loop
- Multiple speaker impedance outputs
- Footswitch for channel switching
- **NORMAL Preamp Gain:** Adjust the amount of gain (distortion) that the amplifier produces in the NORMAL Channel.
- **OVERDRIVE Preamp Gain:** Adjust the amount of gain (distortion) in the OVERDRIVE Channel. The higher the preamp setting the more overdriven the sound will be.



- 1 Input Jack: Guitar cable goes here (the other end should probably be in the guitar)
- 2 NORMAL Preamp Gain: Adjust the amount of gain (distortion) that the amplifier produces in the NORMAL Channel. Keep it low for crystal clear cleans, or dial it up for some tube grit.
- 3 OVERDRIVE Preamp Gain: Let's be honest here--THIS is why you bought the amp in the first place! Adjust the amount of legendary Soldano gain (distortion) in the OVERDRIVE Channel. The higher the preamp setting the more overdriven the sound will be.
- 4 BASS: Part of the 3-band EQ for adjusting low frequencies
- 5 MID: Part of the 3-band EQ for adjusting middle frequencies
- 5 HIGH: Part of the 3-band EQ for adjusting middle frequencies
- 7 NORMAL Master Volume: will let you adjust how loud the NORMAL Channel's output will be.
- 8 OVERDRIVE Master Volume: will let you adjust how loud the OVERDRIVE Channel's output will be, independent of the NORMAL Master Volume.
- 9 PRESENCE: adds an overall brightness, which can be handy when trying to cut through in a 'dead' room.
- 10 DEPTH: enhances the amplifier's low-end frequencies to give extra heaviness to your sound.
- 11 Half Power Switch: Select between 50 watts and 100 watts of output power.
- 12 STANDBY switch: Used in conjunction with the main POWER switch (item 12). Use the STANDBY to "warm up" your amp's tubes before turning on the PWER switch. Always put the amp in STANDBY before turning the main power switch on or off!
- 13 POWER switch: This is the main power switch for the entire amp. Be sure that your amp is switched off AND unplugged before moving it!

TUBE AMP BASICS

Solid state amplifiers are really not much different from your standard household electronics; you just plug them in and go. Tube amps, however, are significantly different. Let's try to answer some common questions about proper tube amp use.

1. **Can you really die from messing around with the guts of tube amp?**
Yes, you can. Tube amps carry significant voltage, even when turned off. DO NOT mess with the insides of a tube amp unless you are a trained tech.
2. **OK, question 1 scared me. Can I safely change my own tubes?**
Yes, you can. The dangerous voltages are only a problem if you start messing with wires and transformers. It is perfectly safe to change your own tubes.
3. **How often should I change tubes?**
There is no set timeline for changing tubes. If you play ever day, a good rule of thumb is to replace your power tubes once a year and your preamp tubes every other year. However, it is entirely possible for tubes, particularly preamp tubes, to last decades.

Here are some signs that you need to change your tubes:

- Excessive noise like squealing, humming, or hiss
- Little or no high end/treble
- Muddy low end or loss of clarity; amp sounds "muddy"
- Mysterious fluctuations in the amp's overall volume
- Amp doesn't work!

any amp/cabinet configuration is the match the amp's speaker output impedance with a speaker's impedance (sometimes called "load").

3. OK, how does that relate to my JCA100HDM?

Your amp has outputs on the back marked "16 ohm" and "8 ohm." You need to pick the correct output for your speaker configuration. To be specific, if your speaker cabinet is listed as "16 ohms" then use the "16 ohm" output on your JCA100HDM.

Things get a bit more complicated when you want to use more than one speaker cabinet. Speaker cabinets often have a set of ¼" jacks labeled "series" or "parallel." This allows you to run a speaker from your head to one cabinet and then from that cabinet to another one. When you use the "series" output, the load increases so you add each cabinet's impedance to determine the overall load (two 8-ohm cabs in series = 16-ohm load).

When you use the "parallel" output, the load decreases. If all cabinets have the same impedance, then divide that impedance by the number of cabinets (two 8-ohm cabs in parallel = 4-ohm load). If the cabinets are of different impedance, then multiply the impedances together and divide this by the sum of the cabinet impedances (one 8-ohm cab and one 16-ohm cab in parallel = 5.33-ohm load). In case of an awkward number, default to the impedance closest to, but lower than, the number (for a 5.33-ohm load, use the 4-ohm output).

4. Um...could you make that a little easier?

Sure! Just read the chart below to find what your speaker configuration.

Connect your JCA100HDM to:

Single JCA24S	amp's 8-ohm out to cab's 8-ohm (mono mode)
Single JCA48S	amp's 16-ohm out to cab's 16-ohm (mono mode)
Dual JCA48S	amp's 8-ohm out to cab 1's 16-ohm (mono)
	amp's 2nd 8-oh out to 2nd cab's 16-ohm (mono)

WARRANTY

1 Register Your Product Online QUICK SETTINGS FOR SELECTED TONES

Please visit www.jetcityamplification.com within 30 days from the date of purchase as listed on the buyer's receipt to register your product. Doing so will enable you to receive the most current information about our company and products, directly from Jet City.

CLEAN SETTINGS: Set the NORMAL Master to about 6 to maximize the amplifiers extended headroom. Now simply use the NORMAL Preamp control to achieve the desired tone and volume.

- ### 2 Warranty
- **HIGH GAIN SETTINGS:** Switch to the OVERDRIVE channel. Initially, the OVERDRIVE Master should be set to a low level (somewhere between 1-3) and the OVERDRIVE Preamp turned up to give the desired gain and distortion. Then return to the MASTER control to set the desired loudness.
 - Jet City Amplification warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year from the original date of purchase, in accordance with the warranty regulations described below. If this product shows any defects within the specified warranty period that are not excluded under this warranty as described in section 4, Jet City Amplification shall, at its discretion, either replace or repair the product using suitable new or reconditioned parts. In the case in which other parts are used which constitutes an improvement, Jet City Amplification may, at its discretion, charge the customer for these parts.
 - **REMEMBER TO EXPERIMENT:** This is how you will get the most out of your new amplifier.
 - If the warranty claim proves to be justified, the product will be returned to the customer freight prepaid.
 - Warranty claims other than those indicated above are expressly excluded.

3 Return Authorization Number

- To obtain warranty service, the buyer (or his authorized dealer) must call Jet City Amplification or Authorized Jet City Amplification Distributor (current list and contact information can be found at (www.jetcityamplification.com) during normal business hours before returning the product.
- All inquiries must be accompanied by a description of the problem. Jet City Amplification will then issue a Return Authorization Number (RA Number)

- Damages/defects caused by force majeure or any other condition that is beyond the control of Jet City Amplification
- Any repair or opening of the unit by unauthorized personnel (user included) will void the warranty.
- In an inspection of the product by Jet City Amplification shows that the defect in question is not covered by warranty, the inspection costs are payable by the customer.
- Products, which do not meet the terms of the warranty, shall be repaired exclusively at the buyer's expense. Jet City Amplification will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within six (6) weeks, Jet City Amplification shall return the unit to the customer C.O.D with an invoice that will include charges for the inspection and a separate additional charge for freight and packing costs. Such costs will also be billed separately when a customer has sent in a unit for repair with a written repair order form.

5 Warranty Transferability

This warranty is extended exclusively to the original buyer (customer of the retailer) and is not transferable to anyone who may subsequently purchase the product. No other person (retailer, consumer, etc) shall be entitled to give any warranty promise on the behalf of Jet City Amplification.

5 Claims for Damages

Failure of Jet City Amplification to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of Jet City Amplification exceed the invoiced value of the product.

7 Other Warranty Rights And National Law

The warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

According to OSHA, any exposure in excess of the above permissible limits could result in hearing loss. Ear plug 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 is in excess of 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 pressure sound levels such as this amplification system be protected by hearing protection while this unit is in operation.

The US Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level dBA
8	90
6	92
4	95
3	97
2	100
1.5	102
1.0	105
0.5	110
0.25	115

Specifications

Pre-amp

- 5 x 12AX7

Power Amp

- Selectable 100 watts / 50 watts Output,
- Class A/B, Fixed Bias (Internally Adjustable)
- 4 x 6L6 (uses 2 x 6L6 at 50 watts)

Controls

- Pre-amp – Normal, Overdrive
- EQ – Bass, Middle, Treble
- Master Volume – Normal, Overdrive
- Presence
- Depth
- Stand-by switch - Toggle
- Power Switch – Toggle

Footswitch

- FS-1 included for channel switching

Power Transformer

- Input Voltage – 100v/120v/230v/240v

Dimensions

- Unit – 25”W x 9.5”H x 9.5”D

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Construction Material

- Multi-ply Hardwood
- Brass Material
- 16ga Rolled Steel