



LIMITED LIFETIME WARRANTY

HELP SECTION

) AMP WILL NOT TURN ON

enter is the responsibility of the customer.

Bad Cat Amplifiers warrantees our amps and cabs against workmanship or defect for

ife. The warrantee does not cover tubes or cosmetic damage, or wear and tear or abuse. This warrantee is transferable. Lifetime transferable warranty is only for North American sales. Please see your local dealer and distributor for warranty information. Modifying or

altering the amp in any way voids the warrantee. Shipping to and from the warranty rep

We have a new Lifetime Warranty on all new amps leaving the factory. We are extending the Lifetime Warranty to all of our pre acquisition amps for \$249. Simply send the unit back to us and we will have one our technicians go through it from the ground up. And to

top it all off, we will pay for the shipping back to you. For more information please contac us at sales@badcatamps.com or directly at 800-730-0966.

When RETURNING merchandise to the factory, you must call for a return authorization

Check the power to the amp. Check for tripped circuit breakers, unplugged extension cords or power-strip switches that may be turned off. Check the fuse. If a dark brownish color or no wire can be seen within the glass tube, then replace. The amp may be perfectly fine but occasionally a fuse may blow because of high AC voltage surges. After the fuse

has been replaced with the proper Slow Blow value and if the fuse fails again, the am

Tubes damaged in shipping will be the primary reason for your amp to not function properly. Please give us a call to help guide you through this simple repair.

3) KEEP YOUR AMP LOOKING NEW

Use a damp cloth to wipe the controls on the front & rear chassis panels. Wipe the black

IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING

WATER AND MOISTURE: Appliance should not be used near water (near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings. POWER SOURCES: The appliance should

be connected to a power supply only of the type described in the operating in tions should be taken so that the ground-

ing or polarization means of an appliance POWER CORD PROTECTION: Power sup-

ply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance. SERVICING: The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified FUSING: If your unit is equipped with a

text on the unit for correct fuse type.

This symbol is intended to alert the user to the presence of uninsulated "dangerous oltage" within the product's enclosure that

This symbol is intended to alert the user to the presence of important operating and

vill require servicing.
2) NO OUTPUT with POWER light ON

invl covering with a damp cloth.

CAUTION RISK OF ELECTRIC SHOCK

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!

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Operating Manual

MINI CAT II

Congratulations and thank you for purchasing a professional tube amplifier from Bad Cat. As with all Bad Cat products, your amplifier is designed from the ground up to provide the very best tones possible in a rugged, reliable package. Each one of our pro quality models is constructed with Bad Cat's commitment to making the highest quality, hand-built, American-made amplifiers.

With a little care and caution, your Bad Cat amplifier should provide you with years of trouble-free operation and enjoyment. Please avoid damp areas and moisture during operation of the amp and in storage. This includes placement of beverages near or on the amp that could spill into the amp's chassis. Liquids can easily damage tubes, switches and other parts. Immediately disconnect the amp from power source should a spill occur and dry the amp thoroughly prior to switching on the amp again. Drying may require the complete removal of the chassis from the cabinet and the removal of the tubes for cleaning. Avoid tipping the amp, using it in unbalanced positions, or lifting it unassisted to awkward heights. A little common sense will go a long way in making sure the amp does what it's supposed to do: provide you with dependable operation and great tone on a consistent

Please check thoroughly that the ground tip on the power cord plug is connected to true ground prior to operation of your Bad Cat amp. Using unfamiliar junction boxes can cause potentially dangerous floating grounds. Please do not cut or defeat the ground tip.

Last updated: July 30, 2013



SINGLE CHANNEL, 5 WATT, EL84

The only thing small about this 5 watt powerhouse amplifier is its size. You won't believe your ears when you hear this baby cat roar. Ideal for low-volume studio recording and a small stage, the Mini II is a Class A, point-to-point hand wired tube powered brute.

Experience the sweet tone of a dual overdriven 12AX7 pre-amp section and a single EL84 power tube in your bedroom without disturbing your neighbors. Also features line out, volume, interactive bass, treble, master controls and ohm selector.

Power: 5-Watt Single Ended Class A Channels: 1 Controls: Volume, Bass, Treble, Master

HARDWARE Available Configuration: 1x12 Combo Cabinet Material: 13 Ply Baltic Birch Speaker Description: 12" Proprietary Bad Cat Celestion Speaker Impedance: Selectable 4, 8, 16 ohms Power Tubes: 1 - FI 84 Pre-Amp Tube: 1 - 12AX7 Rectifier: Solid State Shown as Mini 1x12 Combo in Green Smooth Vinyl and Dark Gold Grill Cloth





FOR YOUR RECORDS, YOU MAY WISH TO RECORD THE FOLLOWING INFORMATION. **SERIAL NO.**

INVOICE DATE

MINI CAT II

OPERATION

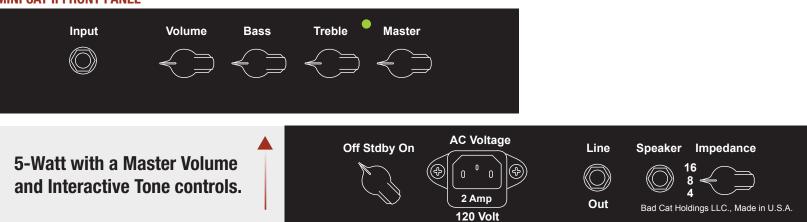
If this is your first all-tube amplifier, please become familiar with a few issues that differentiate your amp from solid-state or hybrid amp products. Only a few precautions are required but they will insure that you will get the most of your new all-tube amplifier. Vacuum tubes are "old world" thermal devices that require more attention than transistors, but that's the reason they sound so much sweeter and more musical than integrated circuits and other solid-state components. A little heads-up on the following points will ensure maximum performance from your Bad Cat amp.

- 1. Place the amp at least 6 inches away from any wall or obstacle to provide adequate ventilation around the amp. Good airflow around the amp will go a long way in preventing the amp from overheating, especially the tubes. Do not place covers, clothing, or any other materials on or in the amp that can obstruct the free venting of the chassis to the outside air. Trapped heat in the chassis may cause a condition known as thermal runaway. To put it simply, to warm or cook the tubes is good, to heat-cycle or fry the tubes is extremely dangerous and will also shorten the life of the tubes considerably.
- 2. Vacuum tubes will last longer and sound more musical when they are allowed to warm up prior to introducing an input signal from your guitar. A full flow of electrons from the cathode can only be achieved when the tube is heated. This requires some time. Please allow at least one minute of warm-up time before playing through the amp.
- 3. Avoid long idle periods with no input signal. The vacuum tubes prefer to see a signal present. When taking a break between practice sessions or in between sets of a performance, use the standby switch or turn off the amp.
- 4. Avoid unverified impedance loads. In other words, do not clip on or otherwise attach additional speakers unless you know the system impedance. Tube amplifiers are very sensitive to speaker impedance matching. This is due to the relationship between the internal resistances of the output transformer, the output power tubes and the load that is required to drive them. Unbalanced loads can cause destructive arcing; the transformer and the tubes may actually burn themselves out. This is not covered by our warranty.

With proper impedance matching, multiple speaker configurations will work fine. If you are not familiar with "Ohm's Law", please consult with a dealer or a qualified amplifier technician. Do not attempt to operate the amp if you cannot verify system impedance after connecting the speakers. Never operate your Bad Cat amp at 2 ohms or less.

5. Avoid unapproved "Power Soak" devices or attenuators that are not recommended by Bad Cat as they can shorten the life of your power tubes considerably. Attenuators burn out tubes prematurely because they require the power tubes to overwork continuously. Also, please note that power tubes are best replaced as a matched full set whenever any of them fail.

MINI CAT II FRONT PANEL



MINI CAT II REAR PANEL

FRONT PANEL

Input

Volume

The first knob on the left when you face the amp's front panel is the volume control. The Volume acts as a gain knob for overdrive and distortion sounds.

Bass

This active EQ circuit boosts or cuts the bass frequencies. You will notice that this control has a much wider range of control compared to bass controls on most other guitar amplifiers. It should also be noted that it interacts with the Treble control to truly provide a wide range of tones.

Treble

This active Treble EQ circuit boosts or cuts carefully selected treble frequencies that are critical to a great guitar tone. You will notice some dramatic tonal shifts by going from around noon on the knob setting to around 2-3 o'clock. Combine this with the active Bass circuit to dial in just the right amount of balance of firm clear lows and sweet yet cutting highs.

Master

The Master knob controls the overall output of the Mini II. Then the Volume knob acts as a gain control and you can control the overall loudness with the Master knob.

BACK PANEL

On/Off Switch

This switch turns the amp on or off.

A/C Plug

Plug your amp's power cord in here first, then to the wall.

Lineou

This is a line-level output which can be used directly into a processor or effect unit, thereby making your amp the preamp or tone-shaper of a larger "rack" rig. This can also be used for direct recording, although typically clean sounds work best for this purpose as the distorted sounds tend to suffer from the lack of the positive coloration a speaker brings to a distorted guitar tone.

Speaker

This jack is adding an extension speaker cabinet to be used with the internal speaker of the Tone Cat. The internal speaker runs at 8 ohms for a single 12 or 4 ohms for a 2x12 and is parallel with the extension speaker jack.

Speaker Impedance

On a combo this rotary selector knob comes set at 8 ohms for a single 12 or 4 ohms for a 2x12. The selector knob can select between 4, 8 and 16 ohms. Check Ohm's Law if using an additional extension cabinet to select the right ohm setting. Example: 8 ohms + 8 ohms = 4 ohm setting.

On a head, please be sure to select the proper ohms to match your cabinet.

TROUBLESHOOTING

Your new Bad Cat amplifier is designed for many years of professional trouble free operation. Common sense will tell you that if you notice any severe abnormalities in operation like burning smell, smoke, etc.; you need to shut down the amp immediately. Always consult your Bad Cat dealer if you are unsure of the problems that you are dealing with; i.e., take your amp to where you purchased if

No Power

Check the power source from the wall first. Make sure the power cord is properly seated at both ends. If there is still no power, check the fuse and replace if necessary with the correct rating only.

Weak Output Level

Verify the signal output from your instrument first. Check guitar's controls and that the cables are working properly. Also, check any effects pedals that may be connected in between the guitar and the amplifier.

Adverse Sounds-Hum, Whistle, Loss of Dynamics, Feedback, Howling

Check loudspeaker cones, frayed guitar cables, controls on your instrument, the guitar's pickups and any other devices that many be connected to your amplifier such as effects pedals or rack processors. Some of these devices are "amplifiers" in their own right with gain and boosted volume levels and they may cause hissing and unwanted feedback if set too high in front of the amp.

Shut down the amp and check the tubes. Wait for the amp to cool down. Remove the back panel of the amplifier. Avoid handling hot tubes as they can cause severe burns. Check the larger output power tubes first by carefully removing the tube shields, and then unseat the tubes from their sockets but note from which sockets you removed the tubes. Inspect the integrity of the filaments in the tubes. If one or more of these tubes are bad, you will need to replace the entire set of the power tubes. If all the tubes are OK, you can eliminate the adverse sounds by swapping the location of these tubes. If this fails to fix the problem, you may need to replace the entire set of power tubes with a new matched set. Use of inferior quality (unrated) tubes may cause damage to your amplifier.

You should also check the preamp tubes, especially the first input stage tube (far right if you're looking at the amp from the back). Microphonics (feedback noise that cannot be controlled by turning down the volume pot on you guitar) indicates a bad preamp tube(s). You may want to swap the position of preamp tubes to see if this will fix the microphonics problem. Preamp tubes can go bad without warning but can also last many years without any problem whatsoever.

As you can see when handling tubes, they are sensitive, fragile and somewhat prone to inconsistencies. Please handle your amp with care when transporting it. Although your Bad Cat amp is sturdily built and designed to take years of rugged use, the tubes are not. It's always a good idea to keep extra tubes (both preamp and output power tubes) handy, especially for performance situations. An overwhelming majority of minor problems on tube amps are tube-related and it's just a matter of swapping one or more out to have your amp performing like brand new again.

