



LIMITED LIFETIME WARRANTY

HELP SECTION

) AMP WILL NOT TURN ON

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

invl covering with a damp cloth.

enter is the responsibility of the customer.

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

life. 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 uni

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

as been replaced with the proper Slow Blow value and if the fuse fails again, the an

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

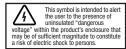
WATER AND MOISTURE: Appliance should not be used near water (near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings. POWER SOURCES: The appliance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

CAUTION RISK OF ELECTRIC SHOCK

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!

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Operating Manual

CLASSIC DELUXE

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, 20 WATT, 6V6

This is our take on the famous blackface sound that came out of California in the 1960's. Punchy. articulate, sparkle without the sharp "ice pick" in the highs. We brought the sweet Bad Cat sound to this classic circuit. The gain is tighter and more usable with double coil guitars. Single coils have more shimmer to the notes. You will find that your guitar will sit in the mix better, with less volume needed to punch out.

Country, Classic Rock, Jazz, Blues it's all here. Small and portable with a huge sounding, well designed cabinet. Available in a 1x12" combo, or head shell configuration. Hand-wired and handbuilt construction harkens back to the way amps used to be made. Point-to-point, hand soldered, 16-gauge steel chassis insures this is an investment grade instrument built to last. Thirteen ply Baltic birch construction, built entirely by hand at our facilities in California.

ELECTRONICS

Power: 20-Watt Class A Channels: 1

Controls: Volume, Treble, Bass, Reverb

Available Configuration: Head or 1x12 Combo

Cabinet Material: Head Shell - Italian Poplar, Combos - 13 Ply Baltic Birch

Impedance: 8 ohms

Speaker Description: 12" Proprietary Bad Cat Celestion Speaker Power Tubes: 2 - 6V6's

Pre-Amp Tubes: 3 - 12AX7's, 1 - 12AT7

Rectifier Tube: 1 - G734



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

Front & Rear Panel Controls

CLASSIC DELUXE

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.

Front Panel Controls



Rear Panel Controls



FRONT PANEL

Input

Guitar cord

Volume

The first knob on the left when you face the amp's front panel is the volume control for the clean channel. This is the input stage where the preamp tubes first "see" the guitar signal and goes through the first phase of amplification. Although designed as the clean channel, you can crank up the volume pot and your picking attack to get varying degrees of clean and overdrive sounds.

Treble

The Treble EQ knob allows you to control the amount of high-end frequencies that determine the cutting character of your sound. For more sparkle and highend definition turn this knob past noon. For a warmer and rounder sound, turn this knob below noon in conjunction with turning up the Bass knob.

Bass

The Bass EQ knob has been carefully tailored to cover the critical low-end frequencies in the electric guitar's sonic range. Whether you need depth in your sound or low-end punch, this control will allow you to dial in just the right amount of bass frequencies.

Reverb

The reverb circuit is a completely new Bad Cat design that adds spatial dimension to the tone produced by the amp. Incorporating the very best 3-spring reverb tank with newly designed reverb tone circuit, the reverb can go from subtle classic spring reverb effects to rollicking surf reverb to cavernous hall-like setting with a simple twist of this knob. This reverb circuit was carefully designed to be useful across the entire sweep of the reverb range. It adds a wide range of spatial effects that you just can't duplicate with pedals and digital effects processors.

Standby Switch

Leave this switch off when turning on the amp and let the amp warm up for a full minute before turning this switch on. It's best to let tubes warm up before playing. Place amp in the Standby mode when you will not be playing for awhile (for example, breaks in between sets of your performances, etc.).

On/Off Switch

This switch turns the amp on or off. Please make sure that the Standby Switch is in the Standby mode before turning that amp on and off. This will help increase the life of the power tubes.

BACK PANEL

A/C Plug

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

Fuse Holder

This is the main fuse holder. Please only use the fuse as specified on the amp.

High Tension Fuse

High Tension is just another way of saying High Voltage. Voltages at this point can be anywhere from 350-500 volts depending on the model so it is always a good idea to make sure the amp is "off" when installing or removing the fuse. Do not stick anything inside the fuse holder other than a fuse. Do not attempt to defeat the fuse with a metallic gum wrapper or nail. This fuse is in series with the output transformer. Its function is to prevent collateral damage to the amplifier in the amplifier in the even of tube failure. If you replace the tubes and the fuse blows again, seek gualified technical help.

Reverb Footswitch Jack

This is the footswitch jack to turn the reverb on or off. You can use any conventional shielded cable latching on/off footswitch with this jack.

Speaker Out

This jack is adding an extension speaker cabinet to be used with the internal speaker. 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.

Send and Return Jacks

Connect the output of the send jack to the input of your effects device. Connect the output of your effect and to the Return jack of the loop. The Send can also serve as a Line Out to drive external processors in a wet/dry/wet rig.

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 it.

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 quitar 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 or loosening the clamps, 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.

