TROUBLESHOOTING

Your new Bad Cat amplifier is designed for many years of professional trouble free operation. Common sense will tell vou 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

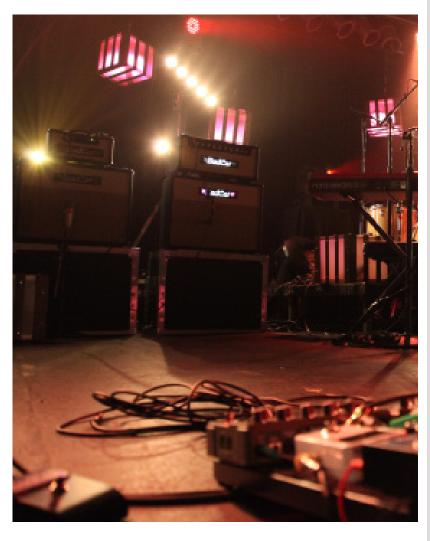
ICheck the power source from the wall first. Make sure the power cord is properly seated at both ends. If there is still no power, check the fuse and replace if necessary with the correct rating only.

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 quitar and the amplifier.

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

Check loudspeaker cones, frayed guitar cables, controls on vour instrument, the quitar'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.



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 instructions or as marked on the unit.
GROUNDING OR POLARIZATION: Precautions should be taken so that the grounding or polarization means of an appliance

is not defeated.
POWER CORD PROTECTION: Power supply 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

service personnel. FUSING: If your unit is equipped with a fuse receptacle, replace only with the same type fuse. Refer to replacement text on the unit for correct fuse type.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitut a risk of electric shock to persons.

LIMITED LIFETIME WARRANTY

Bad Cat Amplifiers warrantees our amps and cabs against workmanship or defect fo fle. The warrantee does not cover tubes or cosmetic damage, or wear and tear or abuse. his warrantee is transferable. Lifetime transferable warranty is only for North American ales. 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 rej enter is the responsibility of the customer

Ve have a new Lifetime Warranty on all new amps leaving the factory. We are extendin he Lifetime Warranty to all of our pre acquisition amps for \$249. Simply send the un pack 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 contact us at sales@badcatamps.com or directly at 800-730-0966.

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

IELP SECTION

) AMP WILL NOT TURN ON

Check the power to the amp. Check for tripped circuit breakers, unplugged extensio 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 line 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 vill require servicing.
2) NO OUTPUT with POWER light ON

Tubes damaged in shipping will be the primary reason for your amp to not functio 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 inyl covering with a damp cloth.

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

STELLA

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.

CAUTION

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, 40 WATT, DUAL EL34

Sometimes we build a custom amp for an artist that is so good that we want to offer it to everyone. The Stella and the Luca are just that. Both share simple single channel preamps based on opposite sides of the Wild Cat. Both have 40 watt EL34 based power sections running in class A.

The control panels consist of the classic Bad Cat preamp: volume, 5-way selector, bass, treble, cut and a master volume that can be switched out of the circuit.

The difference between these two rests in the first stage of the preamp. The Luca is built on a 12AX7 platform with all of the thick articulate and punchy midrange sweetness that goes with it. Think of an extended version of

channel one of the Wild Cat. The Luca offers a switch between the 5-way tone selector and the traditional bass and treble tone stack. A feature not found on the Wild Cat's channel one.

The Stella offers the same control layout only with an EF86 front end. All of the sweet grind and chime of the EF86, combined with the full force of two two EL34 's running in Class A.

The Luca and The Stella were made custom for touring artists and were just so good we had to offer them to everyone. Let us make one for you!

ELECTRONICS

Power: 40-Watt Class A Controls: Volume, Tone, Bass, Treble, Cut, Master

HARDWARE

Available Configuration: Head, 1x12 Combo or 2x12 Combo Cabinet Material: Head - Italian Poplar, Combos - 13 Ply Baltic Birch Speakers: 12" Proprietary Bad Cat Celestion Speaker Impedance: Selectable 4, 8, 16 ohms Power Tubes: 2 - EL34's Pre-Amp Tubes for Stella: 1 - EF86 and 2 - 12AX7's

Rectifier Tube: GZ34

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

Front & Rear Panel Controls Front Panel Controls

STELLA

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.

VOLUME TONE S BASS TREBLE CUT MASTER ON ON ON ON ON OUT STELLO STDBY OFF

Rear Panel Controls



MAINTENANCE

Your Bad Cat amp is a professional instrument that does not require much in maintenance. Use a clean dry cloth to wipe cabinet as required but avoid solvents of any type as they may tarnish or discolor the vinyl. If you're going to store the amp with a cover, please allow the tubes to cool before covering the amp. A cover cloth or vinyl amp cover will prevent dust buildup in the amp. Weak or dull tones from your amp may indicate that the tubes are old or tired and need replacement. The tubes in your amp are like tires on your car. They do wear out. If you notice change in tone and tactile response from the amp, it's most likely that the power tubes need to be replaced. As advised earlier in this manual, replacement should only be done in complete matched sets. Preamp tubes will last much longer than power tubes, but these should also be checked occasionally. Preamp tubes tend to go micro-phonic and also produce undesired results when old or not working properly.

FRONT PANEL

Innut Jacks

Input jack 1 is the normal input. Input jack 2 is padded down 3 decibels and is recommended for more headroom when using high-output pickups. But if you want more gain at low volume levels, high-output pickups through the input jack 1 will allow the amp to overdrive "faster" (i.e., the volume level lower). It is also possible to switch between the two inputs or use both inputs concurrently using a "Y" cable or an A/B/Y box to extend the tonal possibilities of the amp, but in most cases you will find that either input will work fine depending on the type of pickups you are using. It's best to experiment with both inputs to find out which sounds best to your ears with your guitar(s) and pickups.

Volume

This volume pot controls the output level specific to Channel 1. With the Master Volume switched "out" this is solely responsible for the loudness of this channel. With the Master Volume switched "in" this pot works in tandem with the Master. In that case, the higher settings of this pot will give more gain and the Master will be used for overall volume.

Ton

This is a 5-position knob used for instant access to your favorite sounds. Turn it clockwise for increasingly darker, thicker tones. Turning the knob counterclockwise gives you more treble and bite. The 5-position switch gives you a distinct advantage in being able to recreate the tone you want time after time.

Tone Switch

This switch gives you the option of using the 5-position tone knob above or using the bass and treble knobs that follow. Switch in the up position gives you the 5-position knob. Switch in the down position gives you the bass and treble knob. The amp uses either the 5-position or the bass and treble knobs for tone; they are not used in conjunction with one another.

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.

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.

Cu

The Cut knob is universal to Channel 1 and Channel 2, meaning it is always in the circuit an always affecting the tone. The knob is appropriately named because turning it up gives your tone more cut; turning it down gives a darker, mellower tone. This is similar to a presence knob on some other amos.

Master "In" and "Out" Switch and Master Volume

This switch activates and deactivates the master volume for Channel 1 & 2. When the switch is "In" the Master knob now controls the overall output level of Channel 1. When the switch is "Out" the Master knob is now out of the circuit and does not affect the amp.

Channel 2 Master only works when Bass & Treble is selected.

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 on or off. This will help increase the life to the power tubes.

BACK PANEL

A/C Plug

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

Full/Half Power Switch

In the up position this switch allows the use of full power of your amp. For more headroom, full power mode is a must. Full power mode also provides a bigger, bolder tone. The down position of this switch is Half power mode. Half power is very useful for getting the amp to break into desirable distortion at lower volumes for home use or use in smaller rooms. The tone character is slightly different between the modes and a little experimentation is worthwhile.

Speaker Jacks

On a combo amp, this jack is for adding an extension speaker cabinet to be used with the internal speaker of the amp. The internal speaker runs at 8 ohms for a single 12. Or 2-10" 16 ohm speakers running in parallel. On a head, this jack is for connection to your speaker cabinet. Please be sure to select the proper ohms to match your cab.

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.

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.

STELLA The Stella is a 40 watt Class A amplifier. Class A amps have their power tubes running at full power at all times unlike Class A/B. Class A/B amps are push-pull amps which essentially means that the power tubes alternate turns handling current. Many classic Marshall and Fender amps are Class A/B. Class A or Class A/B is neither better than the other but they do offer differences in tonal character.