

## Amplifier No.7 OWNER'S MANUAL



Congratulations on your purchase of BC Audio's flagship model, Amplifier No. 7, developed by award winning guitarist **Bruce Clement**.

That's me.

I designed Amplifier No. 7 to be the ideal rock amp for club and concert work. It is a dual-channel non-Master Volume amp, meant to be played loud and driven hard. Construction is heavy-duty, meant for real-world use and abuse. It will drive any 8 or 16 ohm cab and works well with pedals. Amplifier No. 7 is made with the highest quality components, USA iron, and true point-to-point wiring - not turret board or eyelet board construction.

I sincerely hope you enjoy playing your new Amplifier No. 7 as much as I enjoyed building it.

## IMPORTANT SAFETY INSTRUCTIONS



READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS.

- DO NOT REMOVE SCREWS ON BOTTOM. LETHAL VOLTAGES LURK INSIDE. BOO! CONTACT THE MANUFACTURER FOR SERVICE INFORMATION. SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL.
- THIS AMPLIFIER IS CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. WHAT? SPEAK UP! USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME. WHICH OF COURSE IT SHOULD BE.
- WHEN POWERED ON, THE TUBES MAY BECOME VERY HOT, HOT ENOUGH TO BURN SKIN ON CONTACT. SO DON'T TOUCH 'EM. AND KEEP OUT OF REACH OF CHILDREN, AND PETS.
- DO NOT OPERATE WITHOUT SPEAKER OR OTHER SUITABLE LOAD CONNECTED TO THE SPEAKER JACK.
- DO NOT OPERATE NEAR ANY HEAT SOURCE.
- DO NOT OPERATE WITH LID IN CLOSED POSITION OR WITH THE OPENING COVERED, AS THIS MAY DAMAGE YOUR CABLES AND OVERHEAT THE AMP. DUH.
- DO NOT USE NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS. AND DON'T EVER LET SOME FOOL SET THEIR DRINK ON YOUR RIG.
- CLEAN ONLY WITH A LINT-FREE DRY CLOTH. DO NOT USE CLEANING AGENTS.
- CONNECT POWER CORD ONLY TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE FRONT PANEL AND STICKER INSIDE LID.
- PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED OR STRAINED.
- UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN NOT IN USE.
- REPLACE FUSE WITH CORRECT TYPE AND RATING AS INDICATED IN THIS MANUAL AND ON STICKER INSIDE LID.
- ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY.

## OVERVIEW

### MAJOR FEATURES

- Built by Me in the USA
- 100% All-Tube Signal Path
- True Point-to-Point Wiring
- Heavy 16ga Powder Coated Steel Chassis and 1/8" Aluminum Front Panel
- American-made Transformers
- Stainless Steel Hardware
- Tube Rectifier
- Class A Cathode Biased Output Section
- Choice of Power Tubes
- Octal Preamp
- Combination Standby/Power Switch
- Bright and Normal Channels
- Presence Control
- Will Drive Any 8 or 16 Ohm Guitar Speaker Cabinet

### TUBE COMPLEMENT

*For 15 Watts\**

- (1) 5Y3 Rectifier\*\*
- (2) 6V6 Power Tubes
- (2) 6SL7 Octal Preamp Tubes

*For 25 Watts\**

- (1) 5AR4/GZ34 Rectifier
- (2) 5881 Power Tubes
- (2) 6SL7 Octal Preamp Tubes

\*maximum power into 16 ohms

\*\* If ordered in 15w configuration, your Amplifier No. 7 is supplied with an NOS (New Old Stock) 5Y3. If possible, replace only with an NOS 5Y3. New production examples do not produce the ideal B+ voltage for 6V6s.

### ESSENTIAL INFORMATION

Tube placement, left to right:

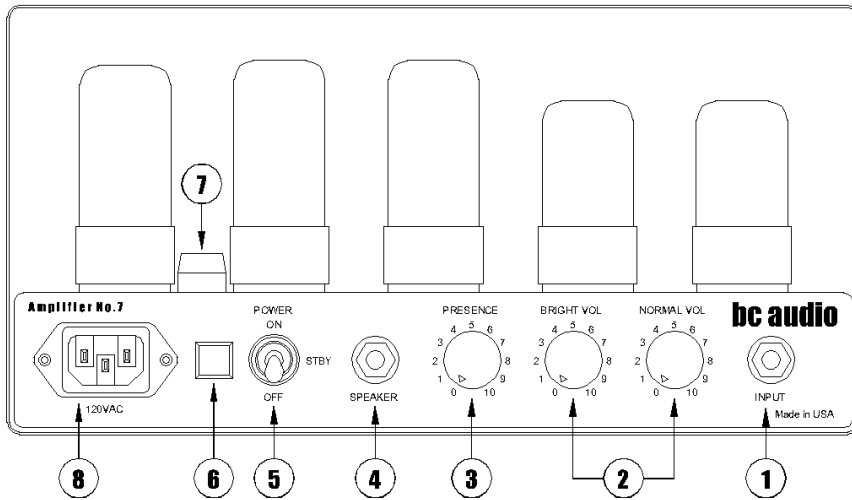
15w Configuration:	5Y3	6V6	6V6	6SL7	6SL7
25w Configuration:	GZ34	5881	5881	6SL7	6SL7

Always use the appropriate rectifier tube with your chosen power tubes, as indicated above. Do not use a GZ34 with 6V6s, as it will shorten the life of the 6V6s.

Never use a solid state rectifier replacement module in place of a tube rectifier, unless it is designed to emulate the rectifier you are replacing, in which case, why not just use the real thing?

Fuse: 3A Slow Blow, Type 3AG, 1/4" x 1-1/4"

# CONNECTIONS AND CONTROLS



## 1. Input Jack

The INPUT jack feeds the Normal and Bright channels simultaneously. Plug a guitar cable into the INPUT jack, and the other end into your guitar, pedal board or accordion. Be sure to use a shielded instrument cable here, not a speaker cable.

## 2. Volume Controls

BRIGHT VOL sets the volume level of the Bright Channel, while NORMAL VOL sets the volume level of the Normal Channel. No kidding. By mixing Bright and Normal Channels, you can dial in an infinite variety of mellow to cutting tones. Both channels are active at all times.

## 3. Presence Control

PRESENCE adjusts the amp's overall brilliance and bite. Unlike a "Tone" or "Treble" control, Presence works in the amp's power section to subtly change the sound and feel of the amp. Lower settings produce a darker, "browner" sound (yeah, I know), while higher settings produce a brighter, sharper tone.

## 4. Speaker Output Jack

**WARNING:** Do not operate the amplifier without a speaker or suitable load connected to this jack. Plug a speaker cable into the SPEAKER jack, and plug the other end into any 8- or 16-ohm guitar speaker cabinet. Be sure to use a speaker cable, not a guitar cable, or damage to the cable, the amp and your reputation may occur.

It is perfectly safe to use a quality attenuator for those quiet restaurant gigs and weddings. Say, what are you doing playing those kinds of shows?

## 5. Power/Standby Switch

Amplifier No.7 is equipped with a combination Power/Standby switch. To turn on the amp, move the POWER switch to the center STBY (Standby) position to allow the tubes to warm up. After a half-minute or so, flip the switch up to the ON position.

To turn the amp off, simply flip the switch all the way down to OFF. There's no need to put it in Standby when shutting down.

## 6. Power Indicator

The Power Indicator lamp will illuminate when power is connected and the POWER switch (5) is set to either STBY (Standby) or ON. If it doesn't light, the power is not connected, or the fuse (7) has blown.

## 7. Fuse (Top of Chassis)

You will need to remove one of the tubes adjacent to the fuse holder to access it. Push down and turn counter-clockwise to remove the fuse. Replace with 3A Slow Blow fuse only, type 3AG (1/4" x 1-1/4").

## 8. IEC Power Inlet

With the POWER switch (4) in the OFF (down) position, plug the included power cord into the IEC power inlet, and the other end into a 120V AC household power source. It doesn't have to be in a house, you see... well, you get the idea.

Any medium or heavy duty cord designed to fit the standard IEC power inlet will work fine, but Amplifier No.7 ships with a hospital grade cord. Sick! Get it? Hospital...Sick...

## SETUP

### Opening and Removing the Lid

To open the lid, lift up on the side latch, then pull the lid open.

If you place the amp on top of a speaker cabinet, I suggest that you detach the lid and place it out of the way to avoid vibration noise from the handle.

To detach the lid, open it at least 90 degrees, then slide it sideways at the hinge. To put the lid back on, align the holes with the pins and slide it on. This can be a little tricky in a dark bar at 2am, so take your time.

### Stage Placement

I like to place Amplifier No. 7 on top of a speaker cabinet (this amp loves old Marshall 4x12s!), but you may place it on the floor next to your cab or rack, or even up front with your pedal board.

Place it on its side, controls facing forward and tubes vertical; or on its bottom, controls up and tubes horizontal. The metal enclosure will remain a bit cooler with the amp placed on its bottom. Heat rises, you know. The case may get quite hot; this is normal.

Contact BC Audio for a rack mount kit.

## PLAYING IT

### Control Settings

There are only three knobs, so you won't have a hard time dialing in your sound. And like the great amps of yesteryear, you can't really get a bad tone out of Amplifier No. 7. Plug it in, set the controls just about anywhere, and off you go.

Experiment with the mix of BRIGHT VOL and NORMAL VOL settings; you will find quite a range of possibilities. PRESENCE is rather subtle, but you'll hear it and feel it, so try it, you'll like it!

*Tone Tip:* Use your guitar's volume controls! Set the amp for the most gain you will need, then back off the guitar's volume to clean it up. Some of the smoothest clean tones you will ever hear can be had by backing off on an overdriven tube amp.

### Getting Distortion

As a non-Master Volume amp, Amplifier No. 7 is meant to be cranked up in order to bring out its overdrive tones. To really hear Amplifier No. 7 and what it can do for you, I suggest you start out by plugging your guitar directly into the amp without any pedals, rack gear or multi-fx units.

Depending on the strength of your pickups, you will find that break-up begins when the volume controls are on about 5. The Bright Channel naturally has more gain and will yield overdrive tones at lower settings than the Normal Channel. Increasing BRIGHT VOL and/or NORMAL VOL settings will bring on more rich, thick and chocolaty distortion. Adjust PRESENCE for the desired amount of bite.

### Using Overdrive/Distortion/Boost/Dirt/Fuzz Pedals

If you need a bit more gain for solos or very high-gain tones, feel free to use a pedal. Amplifier No. 7 works well with these kinds of pedals.

*Tone Tip:* I've met a lot of players who put a Fuzz Face in front of a Marshall Superlead - which at any sane volume is running clean - and they complain that they don't sound *anything* like Jimi Hendrix. And they're right, they don't! Let me share with you a simple technique that many great players have used since the dawn of rock: Set the amp loud enough to be *already somewhat distorted without the pedal engaged*. When you do kick in the pedal, it will still be the "voice" of the amp that you hear. The pedal gives you lots of gain, but it is the amp that produces *that* sound, not the pedal.

When using this technique, you'll find that you'll want to set the pedal's controls differently than you would for feeding into a clean amp. Set the pedal's Gain relatively low, its Output or Volume relatively high, and its Tone somewhere around mid-point. Experiment from there to find the best tones. And don't worry. It may sound like everything is about to melt, but it's perfectly safe to slam the front end of Amplifier No. 7 with a dirt pedal.

# LIMITED WARRANTY

BC Audio warrants this product against defects in materials and workmanship for ONE (1) YEAR from date of original retail purchase (30 days for tubes). BC Audio reserves the right, before having any obligation under this limited warranty, to inspect the damaged product, and all costs of shipping the product to BC Audio for inspection shall be borne solely by the purchaser. In order to recover under this limited warranty, Purchaser must make claim to BC Audio within 30 days of occurrence, and must present acceptable proof of original ownership (such as original receipt) for the product. BC Audio, at its option, shall repair or replace the defective unit covered by this warranty.

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