



## JAS Bravo 3.1

### Vacuum Tube Class A Integrated / Power Monoblocks Amplifier

#### OWNER'S MANUAL

**NOTE:** Before installing your new Bravo 3.1 audio amplifiers, please read this manual carefully. It will inform you of the product specifications and also proper installation and operation procedures.

For additional requests

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If you have any additional questions regarding the installation or operation of our products, you are welcome to contact us directly via email: "enquiry@jas-audio.com", and please check frequently our JAS Audio official website: " <http://www.jas-audio.com> ".

## **JAS AUDIO HIGH FIDELITY** **Class A Monoblocks Amplifier System**



Welcome to JAS Audio Family! This JAS Bravo 3.1 Integrated/Power Monoblocks Amplifier is designed and manufactured to the highest quality standards. The design exemplifies performance, elegance, and simplicity. You will find this tube amplifier visually pleasing and easy to use without going through pages of instructions.

**IMPORTANT:** before operating the unit, make sure you are familiar with the safety measures documented below.

### **Bravo 3.1 OWNER'S MANUAL**

#### **Introduction**

Thank you for purchasing the JAS Audio Bravo 3.1 Integrated / Power Monoblocks Amplifier. This pair of monoblocks is of dual mono design fitted with 3 tube rectifiers, 3 chokes and a direct heated 3-pole 2A3 vacuum tube connected to the transformer for driving the 805 vacuum tube so as to attain a power output of 32W per channel. This single-ended class A integrated/power amplifier is truly amazing in sound reproduction that presents a character of clarity, transparency, and dynamic sound reverberating in a huge sound stage for hours of music enjoyment by audiophiles.



#### **Preliminary**

The front panel of Bravo 3.1 features an analog volume control knob and a power switch.

They are of uniformity with the panel in color and material in production. Lined on both sides of the front transformer cage with wooden cover are two rows of tubes, including one row of rectifiers and another row of tubes on the other side for signal amplification, drive stage and output stage. The **805** output tube is fitted on the antique “holdover-socket”, a design that requires a gentle push downward and an action to turn in releasing the tube. All the transformers are housed in two separate cages mounted on the chassis as a T-joint. Apart from the IEC power inlet and the taps for 4Ω and 8Ω impedance matching with speakers, there is also a by-pass switch located at the back of the chassis. The operating mode is selectable by switching the by-pass switch left or right. Please make sure that switches on both chassis are set to the same side so as to work on the same operating mode before powering up the amplifier.

This pair of monoblocks is recommended to match with Bravo 1.1 vacuum tube pre-amplifier of the same series to build a high-end set up for optimal performance.



Power Switch

Volume Control Knob

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W A R N I N G



*It is important to be careful with tube installation. Please do not force anything, easy does it! This precaution is mentioned to help you obtain pleasing results and avoid damage! If you have any trouble replacing or changing tubes, please don't hesitate to call your dealer!*

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### **Tube Replacement**

**Caution:** Make sure the amplifier has been unplugged for 30 minutes from the AC mains before replacing the tubes, to avoid any risk of shock or discomfort from high temperature. Although tube life span varies depending on the nature and degree of use, under normal home use, the 805 output tube and the 2A3 driver tube should last years in the Bravo 3.1. The 6J4P input tubes and the 5Z3P rectifier tubes should last longer though.

## Cautionary Terms



When the following cautionary terms are used in this manual, these definitions apply:

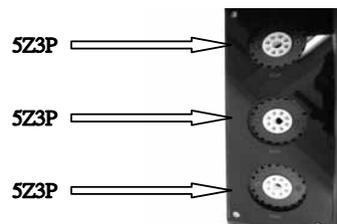
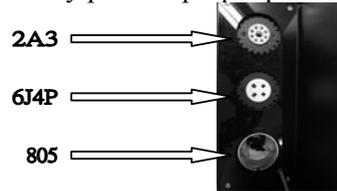
**Electrical hazard!** Misuse or failure to follow instructions properly may result in personal injury or death!

**CAUTION:** No risk of personal injury; however, misuse or failure to follow instructions may result in damage to equipment.

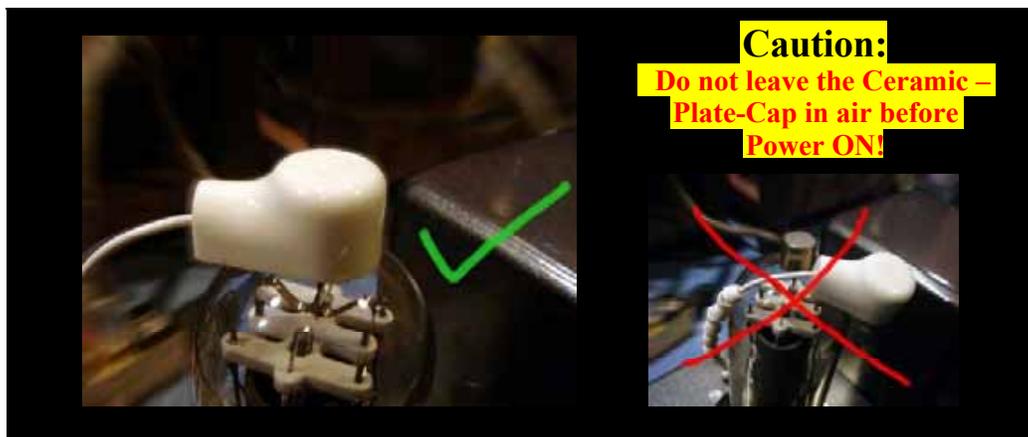
**NOTE:** No risk of personal injury or equipment damage; however, misuse or failure to follow instructions may prevent proper performance

**NOTE:** Any current production or New Old Stock (NOS) types of 805, 2A3, 6J4P and 5Z3P tubes will work fine in the JAS Bravo 3.1 Tube Monoblocks Amplifier. The voltages should work fine with all compatible types.

**IMPORTANT:** never wiggle the 805 tube while pulling it out from the socket. The owner should hold down the tube, and turn it anticlockwise until it releases gently. Again, please do not force anything, easy does it!



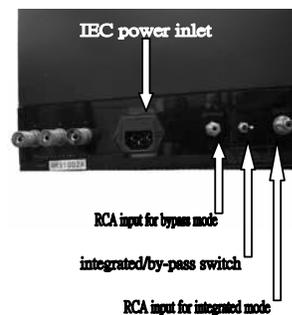
On the same principle, do not turn the 805 tube too tightly when replacing it in the socket. Moreover, the 805 tube has a unique **ceramic plate cap**, which must remain connected to the contact on top of the 805 tube all the time except when repairs are needed (see pictures below). **Caution:** do not leave the ceramic plate cap in the air, unconnected! When powering ON, make sure the cap is connected properly.

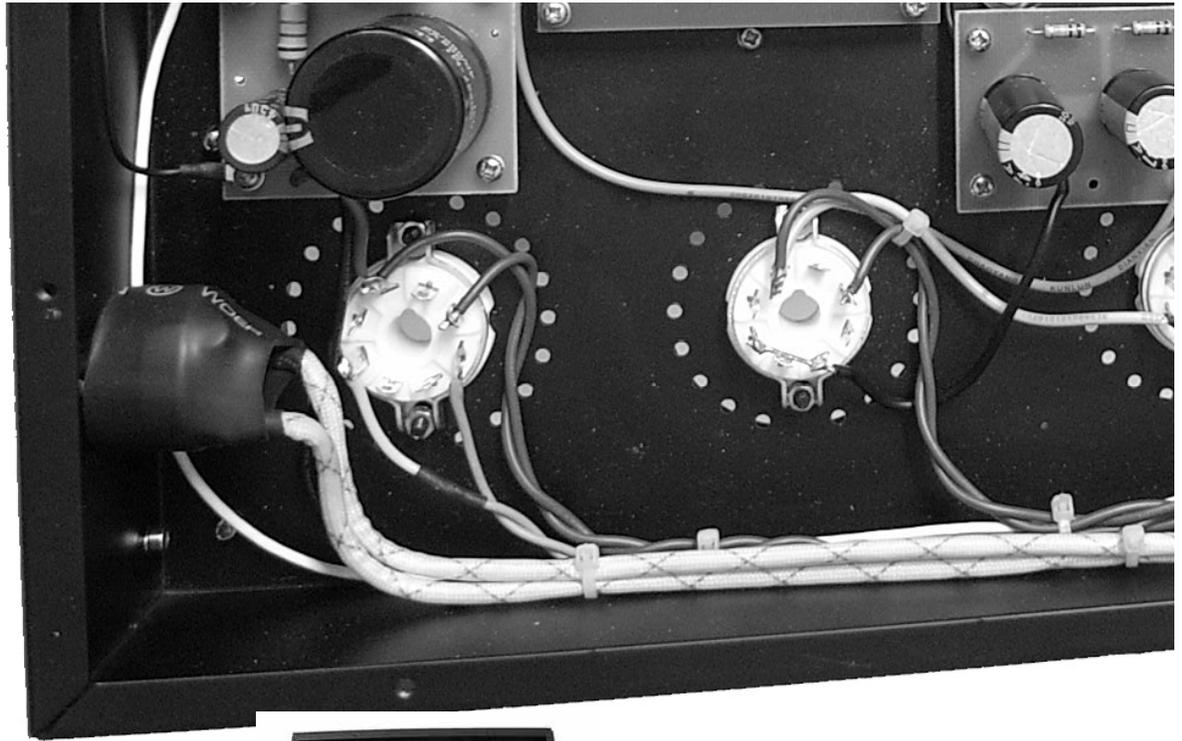


**NOTE:** LOOK CAREFULLY at the tube pins and socket and make sure that you insert the pins correctly. In most cases, replacing 2A3, 6J4P and 5Z3P tubes presents no problem. The tube can be made to release by pulling it out gently (sometimes with a little back and forth wiggling). However, improper handling may possibly force the



Your new amplifier is ready for operation after the speaker cables, interconnect cables and tubes have been properly installed. Before powering up the Bravo 3.1, please make sure to choose the operating mode (either Integrated or By-pass) by using the selector switch located between the RCA input connectors on the back panel. Set the switch to left for by-pass mode, or to the right for integrated mode. Only change the By-pass switch setting when the amplifier is powered OFF. We recommend extreme high quality silver cables or speaker, interconnect, and power connections. Please ask your local dealer for additional information.





- f Circuit structure inside the chassis is of a combination of different circuit boards that serve different functions. All separate boards are integral parts of the entire circuit, and are connected with internal wiring welded with uniform and firm welding points.
- f Factory pre-set voltage operations with fuse protects amplifier circuit in case of current overload.

### Running-In Period

The tubes, capacitors and the output transformers take approximately 100 hours of music playing to fully settle in for peak performance. ***Small imperfections in the tube surfaces will 'boil off' during the break in period as well.*** The amplifier will sound good right out of the box but it will improve as break-in occurs. After the first couple of hours you will notice increased depth and tighter bass. This break-in phenomenon is true of most high performance audio amplifiers.

## Aftercare

The chassis may be cleaned with a soft towel cleaner. The frequency of cleaning will be governed by the cleanliness of the operating environment. Spray the cleaner on the towel, not on the amplifier! Avoid abrasive cleaners! Feather dusters are good for cleaning the amplifier.

## Limited Warranty

This product has been designed and manufactured to the highest quality and standards. However, if something does go wrong with this product, JAS Audio and its national distributors warrant, free of charge, labor (exclusion may apply) and replacement parts in any country served by an official JAS Audio distributor.

**This limited warranty is valid for a period of 3 years from the date of purchase of an amplifier or six months for vacuum tubes.**

## Terms and Conditions

1. The warranty is limited to the repair of the equipment. Neither transportation, nor any other costs, nor any risk involved in removal, transportation and installation of products is covered by this warranty.
2. This warranty will not be applicable other than in case of defects in materials and/ or workmanship at the time of purchase and will not be applicable:
  - a. for damages caused by incorrect installation, connection or packing;
  - b. for damages caused by any use than described in the user manual, or by negligence, or by modifications, or by use of parts that are not made or authorized by JAS Audio;
  - c. for damages caused by faulty or unsuitable auxiliary equipments;
  - d. for damages caused by accident, lighting, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of JAS Audio and its appointed distributors;
  - e. for products whose serial number has been altered, deleted, removed or made illegible;
  - f. if repairs or modifications have been performed by an unauthorized person.
3. This guarantee complements any national/regional law obligations of dealers or national distributors and does not affect your statutory rights as a customer.



## How to claim repairs under warranty

Should service be required, please follow the procedure listed below:

1. If the equipment is being used in the country of purchase, you should contact the JAS Audio Authorized dealer from whom the equipment was purchased.
2. If the equipment is being used outside the country of purchase, you should contact JAS Audio National distributor in the country of residence who will advise where the equipment can be serviced.

**TO VALIDATE YOUR WARRANTY, YOU WILL NEED THE ORIGINAL SALES INVOICE OR OTHER PROOF OF OWNERSHIP AND DATE OF PURCHASE.**

## Technical Specifications

**Product Model:**

**JAS Bravo 3.1**

**Description:**

**Class A Triode Monaural Amplifiers  
Single-Ended Class-A Triode Circuit Topology  
with Integrated / By-pass function**

**Technical Features:**

**Power Requirement:**

**AC 115 @ 50-60Hz set**

**Power Output:**

**32W X 2**



*Best Regards,*



*Set your mind free!*



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