

Purity Audio Design

Foundation J-DAC User Manual

Serial Number:

Voltage:

THANK YOU!...for choosing the Purity Audio Design Foundation vacuum tube Digital to Analog Converter (DAC).

The Foundation J-DAC is a two-channel, Class A vacuum tube DAC with 5.0 Bluetooth.

The Foundation J-DAC's cardinal feature is its uncomplex, zero feedback output stage. This minimal signal path approach is designed to bring line inputs up to levels suitable for proper drive of downstream preamplifiers in the simplest and most direct way possible. This is accomplished by using only a single active gain stage through the judicious use of vacuum tubes.

GENERAL NOTES

LOCATION & VENTILATION

The Foundation J-DAC must be installed in a stable location with ample ventilation. It is recommended, if the unit is mounted in an audio rack, that you allow enough clearance on the top of the preamp such that a constant flow of air can flow. We do not recommend that the preamp be located inside an A/V cabinet that has no or limited ventilation. We also recommend that the preamplifier be placed at least 10 inches away from any electronic components.

WATER & MOISTURE

As with any electrical equipment, this product should not be used near water or in high moisture locations

SERVICING

The user should not attempt to service the J-DAC beyond that described in the owner's manual. Not only will it void any and all implied warranties but the lethal voltages can potentially cause severe harm or death.

Refer all servicing other than tube replacement to Purity Audio Design.

SPECIAL NOTES

Do not touch the vacuum tubes with your bare hands. Always use a soft rag such as an old cotton T-shirt or micro fiber cloth. Do not touch the tubes after the preamplifier has been switched on. They do get hot.

WARNING!
TO PREVENT THE RISK OF ELECTRIC SHOCK
REFER SERVICING TO
QUALIFIED PERSONEL

Any attempt to alter the original design aside from replacing tubes will void any implied warranty and Purity Audio Design's responsibility of any damage and/or injury resulting from any unauthorized alterations to this product.



Please read over this owner's manual carefully and entirely as it contains information essential to the proper operation and maximum enjoyment of your new Purity Audio Design product.

Unpack the Foundation J-DAC carefully and make sure that all supplied accessories are present. Carefully examine all items for any possibility of shipping damage. If everything looks good, place all the packing material back into the box and place the box in a dry, safe place.

The supplied vacuum tubes are not installed into their tube sockets. To replace the vacuum tubes, simply install the 12AU7 tubes into the tube sockets paying close attention to the proper orientation.

If the product is damaged or fails to operate, notify the shipper and/or your dealer within 3 days.

Included accessories: Located within the packing material, you will find the following accessories: one 2 pieces 12AU7 or equivalent vacuum tubes. .

It is prudent to retain the shipping crates/boxes and packing materials for future use, as they are custom-formed for the preamp and will greatly minimize the chance of shipping-related damage should you ever need to put your precious new DAC in the hands of shipping carriers.

Your Purity product has been factory set to the correct mains voltage for your country. If you are moving outside the US with a different mains voltage, your product will have to be sent back to us for the conversion. Unauthorized changes made to the wiring of the transformers in this unit will void the warranty and relieve Purity Audio design from any responsibilities.

All units being built for voltage requirements outside the US will be indicated by a sticker located on the back panel.

Setting up your J-DAC:

1. There are 2 digital inputs on the back panel. One USB, one SPDIF
2. One Bluetooth 5.0 input
3. There are 2 sets line level outputs
4. All input and output connections are clearly labeled and correspond with the front panel source indicator markings.
5. Insert a standard coax cable into the "SPIDF IN" and/or a USB cable into the "USB" port.
6. Connect you RCA interconnect cables from one set of the line outputs on the back panel to your preamplifier/integrated amplifier. Both outputs operate simultaneously.

7. On the right side of the back panel is a standard IEC mains connector. This should be connected to a standard mains outlet with a proper mains cable. This unit has been hardwired for the mains voltage in your country

6. The Foundation J-DAC uses one main AC fuse. The fuse holder is located on the back panel inside the IEC connector. Use only 5mm x 20mm" fast blow 1.2A fuse.

Setup procedure – make sure the unit is NOT plugged into the AC wall socket

1. Place the Foundation J-DAC on a sturdy shelf or dedicated audio rack.
2. Install the 12AU7 vacuum tubes if not already installed. Please use only 12AU7/ECC82 or equivalent tubes.
3. Connect your digital components to the desired input connectors located on the back panel
4. Connect your J-DAC to the preamplifier/integrated amplifier using one pair of the RCA Output connectors located on the back of the chassis.
5. Located on the front of the chassis is the power switch. Make sure this switch is in the "Off" position. When this switch is in the off position, the button will be slightly forward of the switch housing
6. Plug the supplied AC power cord into your wall AC receptacle.
7. Plug the other end of the AC power cord into the IEC connector located on the back panel.
8. Make sure the volume control is in its lowest possible setting. Full counterclockwise.

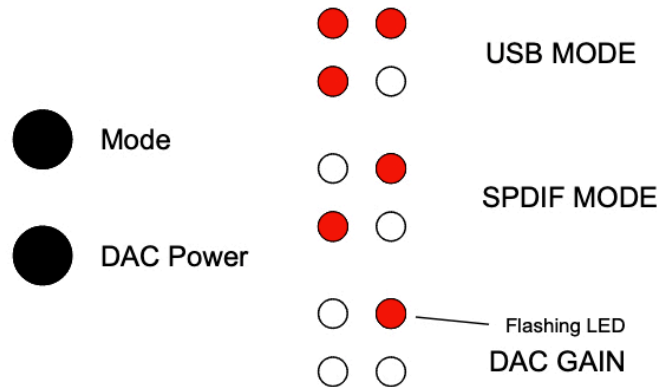
Using Bluetooth

1. Place the front panel input selector to "BT"
2. Notice a blue blinking LED inside the top section of the chassis.
3. Make sure Bluetooth is activated on your Bluetooth device. (cell phone, tablet, etc)
4. On your Bluetooth device, look for "BT5.0-Audio"
5. Connect to "BT5.0-Audio"
6. You are now ready to start using your device as a Bluetooth receiver.

Using the DAC

1. After powering up the main power switch.
2. Set the front panel input switch to "DAC"
3. Press the "DAC Power" till the quad of LED's light up. Not all will light.
4. See the "Mode Switching" page found at the end of this manual.

Mode Switching



- USB Input – Momentarily push the “Mode” button until the LED’s light up in the pattern shown above for USB MODE
- SPDIF Input – Momentarily push the “Mode” button until the LED’s light up in the pattern shown above for SPDIF MODE
- DAC Output Gain – The DAC used inside our J-DAC has three output gain levels; Low, Medium and High. To change the output gain of the DAC board, hold down the “Mode” button (shown above) till the upper right LED blinks
 - * Blinks once – Highest Gain
 - * Blinks twice – Medium Gain
 - * Blinks three times – Lowest Gain

We recommend printing this page to use till you are familiar with the mode switching.

POWER UP/POWER DOWN YOUR SYSTEM- The proper procedure to power up the system is sources (your new J-DAC, CD Player, Turntable, etc) first, then the preamp, then after a 60 second wait for the tubes to come to proper voltage - turn on the amplifiers. Follow the warm up recommendations of your power amplifier(s) prior to the start of playing music. This allows everything to warm up and come to proper working temperature. Powering down the system is the opposite order – turn off your power amp(s) first, then the preamp and then your source components. This procedure must be followed to prevent any loud pops which can potentially damage your components and/or loudspeakers.

Burn In- While many audiophiles do not believe audio products require any burn-in time, we can assure you that the sonic of the Foundation Pre will change, i.e; improve over time. To properly burn in a vacuum tube audio product, we do not recommend leaving in on 24 hours a day, the proper way to burn in an audio product is to run it through on/off cycles. We recommend several hours on (with music signal) and then several hours off.

Burn-in times:

200 hours

Specifications:

- Tube Complement: (2) 12AU7 driver tubes
- Features 2 digital inputs; Coax SPDIF, USB
- Features 2 sets of RCA inputs.
- One Bluetooth 5.0 internal input
- Two sets RCA main outputs.
- Tube Gain: 1dB
- Output Impedance: 100 ohms.
- Frequency Response: 20hz – 20Khz
- Dimensions: 12Wx12Dx5.5H
- Weight:
- Warranty: 3 years parts and labor. 90 days on tubes and hardwood chassis.

Power Requirements: 117V-120V / 230V-240V, 50-60 Hz (Factory Set)

Warranty: 2 years parts and labor, 30 days on supplied vacuum tubes

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www.PurityAudioDesign.com

