



OPERATING INSTRUCTIONS | AMPLIFIER

ATOM AMP

SUPPORT

ONLINE

CONTACT@JDSLABS.COM

[JDSLABS.COM/SUPPORT](https://www.jdslabs.com/support)

BY TELEPHONE

314-252-0936

9:30AM-6PM CST,
MONDAY THROUGH FRIDAY

BY MAIL

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COLLINSVILLE, IL 62234
UNITED STATES

QUICK SETUP

STEP 01

Connect AC power adapter to rear power jack, then connect power adapter to wall outlet.

STEP 02

Connect a cable from your audio player to the RCA or 3.5mm input jack. Press the front “INPUT” button to select 3.5mm input, or depress to select RCA.

STEP 03

Connect headphones to the front headphone output jack.

STEP 04

Turn the volume knob clockwise to power on.

STEP 05

Slowly raise the volume knob to an appropriate listening level.

See “Listening Tips” on pg. 5.

CONFIGURATION

Connectivity

Atom Amp provides two inputs. Press the “INPUT” button to select 3.5mm, or depress for RCA.

RCA Preamp Outputs are only active while headphones are unplugged. Set the “GAIN” button to low gain (depressed) when using RCA output. The volume knob adjusts RCA output.

Gain Setting	VRMS (dBU)
Maximum RCA Analog Input Level (High Gain):	2.10 VRMS (+8.6 dBU)
Maximum RCA Analog Input Level (Low Gain):	8.65 VRMS (+20.1 dBU)

Setting Gain

Press the gain button to toggle between low or high gain amplification. Always use the lowest gain necessary.

Switch to high gain only when you're unable to achieve desired listening volume at low gain.

Source Safety

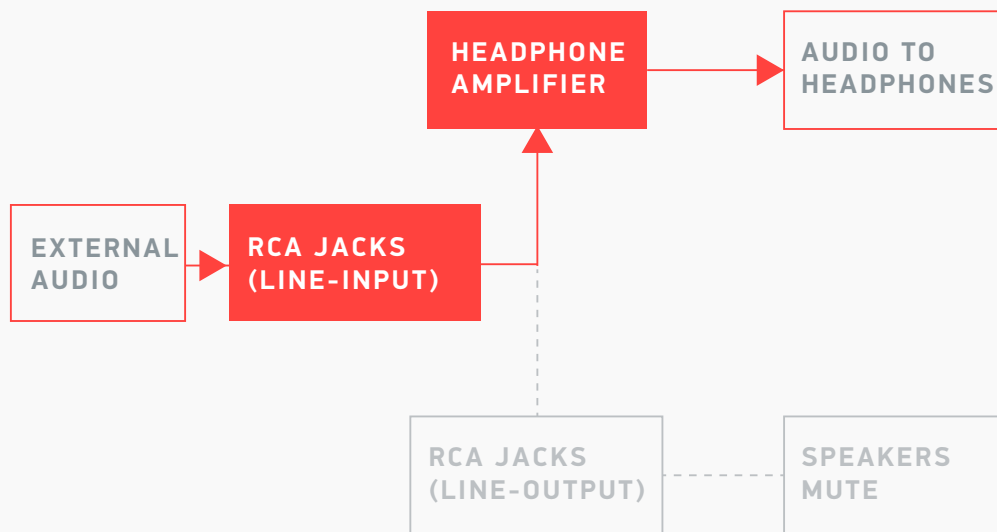
Atom Amp is DC coupled for maximum signal quality and requires an input source with $< 4.5\text{mV}$ of DC offset for safe operation. All JDS Labs DACs and consumer audio sources are safe to use.

If you experience warm headphones, a loud pop when changing gain, or severe rustling sounds while adjusting volume, immediately power off and contact the manufacturer of your audio source to ensure DC offset is below 4mV .

Preamp-output functionality

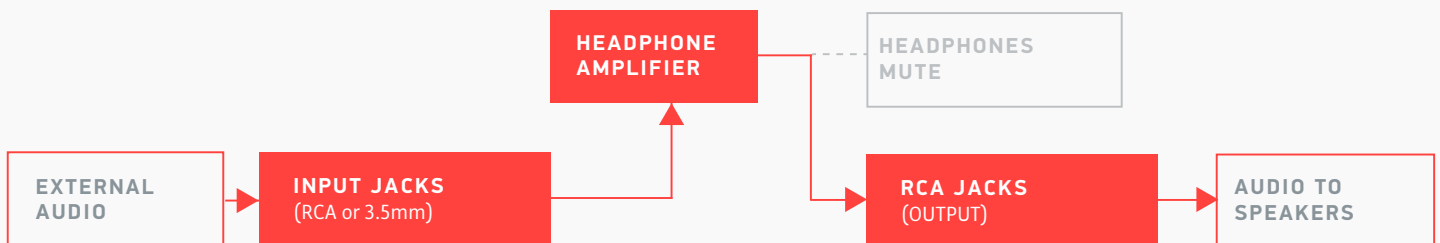


Headphones Connected



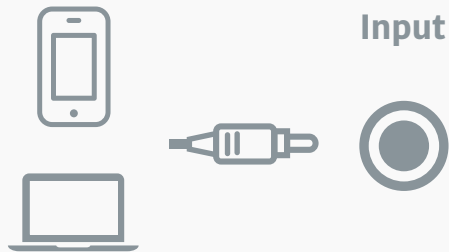
Headphones Disconnected

The volume knob adjusts RCA preamp output. Use Low Gain. Be sure to reduce volume level before connecting headphones

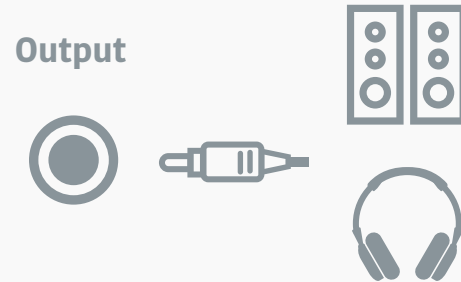


Inputs vs. Outputs

Your audio sources connect to your amp's input. These are common audio sources.



Your headphones or speakers connect to your amp's output.



Listening Tips

Listen safely to conserve your hearing:
www.hearingloss.org

To ensure an optimal noise floor, always position headphone amplifiers as far away as possible from wireless devices.

Operating Care

Atom Amp uses a high current, linear power supply and runs warm to the touch.

Atom Amp can be safely powered on 24/7.

Do not turn knob beyond its limits or press buttons with excessive force.

Use gentle force when inserting or removing cables.

Troubleshooting

Amplifier does not turn on

Cause: Disconnected, damaged, or incorrect power adapter

Solution: Please ensure AC adapter is firmly connected to power jack and wall outlet

Amplifier does not turn off (light remains on)

Cause: On rare occasion, mechanical relays can stick. Most common after shipment

Solution: Firmly knock top left corner of enclosure, near power jack, to disengage

No sound, but light is on

Cause: Wrong input mode selected, or cable/source problem

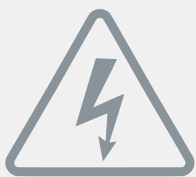
Solution: Input button must be depressed for RCA input, or pressed for 3.5mm input

Audio plays in only one channel

Cause: Bad cable or adapter, or incorrect source setup

Solution: Try another input cable, and headphones with a native 1/4" connector

For more help, please visit: www.jdslabs.com/troubleshooting



POWER ADAPTERS

Attention: Incorrect power adapters can result in capacitor explosion hazards and device damage. Only use the power adapter included with your Atom Amp:

Type: AC-to-AC Transformer	Output Voltage: 16 VAC
Current: Minimum 1000mA	Connector: 2.1x5.5mm (ID x OD)



Application for Council Directives 2004/108/EC, 2006/95/EC, 2002/95/EC. Conformity declared for EN55022:2011, EN611000-3-2, EN61000-3-3, EN55024-2



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.