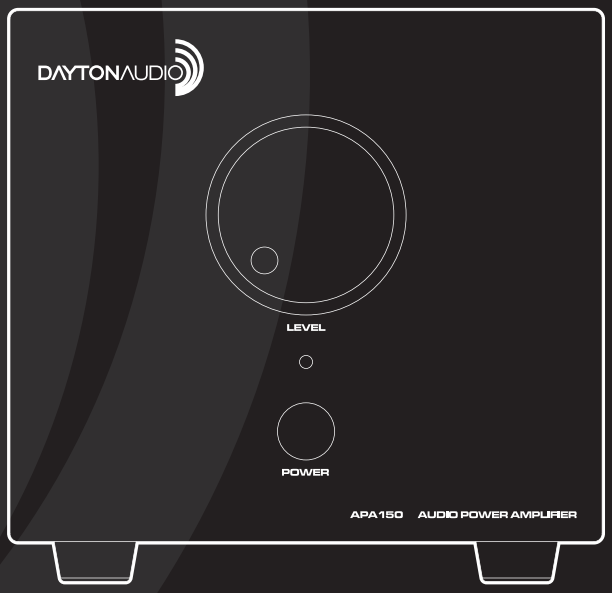
150W POWER AMPLIFIER

Model: APA150 User Manual



Thank you for purchasing the Dayton Audio® APA150 Audio Power Amplifier. This amplifier offers a new level of high fidelity performance and versatility previously unattainable at this price. Power output is 75 watts x 2 into a stereo 4 ohm load, and 150 watts x 1 into a bridged-mono 8 ohm load.

Versatility was the primary design goal when engineering the APA150. Configured in stereo mode, amplification is provided to a pair of speakers for stereo or front/rear surround playback. Switching to the bridge-mono mode configures the APA150 for powering a center channel speaker, or a subwoofer/tactile transducer when used with the on-board low pass filter. Additionally, the full-range line-level outputs allow for daisy chaining amplifiers for a multi-zone whole house audio system. A small form-factor chassis consumes less space than conventional amplifiers making placement options virtually endless.

FEATURES:

Key features of the APA150 include high current discrete power transistors (used in premium amp designs), a hefty toroidal power supply transformer, low-noise forced air cooling, a fully adjustable and defeatable electronic 50-150 Hz low-pass filter, extensive heat sinks to extend the amplifier life, and complete protection against shorting and thermal overload.

Additional features found on the APA150 include full-range line-level outputs, gold-plated 5-way binding posts that accept up to 8 AWG wire, gold-plated stereo line-level inputs and outputs, user-selectable input voltage of 120/230V.

CONNECTING THE APA150

Connecting a line-level device

1. Locate the RCA line-level output from your source device.
2. Using RCA patch cables, connect the appropriate channel from the source output to the amplifier input.
3. For a mono line-level signal, use the left channel line-level input.

Daisy-chaining APA150s

1. Connect the line-level input from source device as above.
2. Connect the line-level output from first amplifier to line level input on the second amplifier.

Using the APA150s low-pass filter

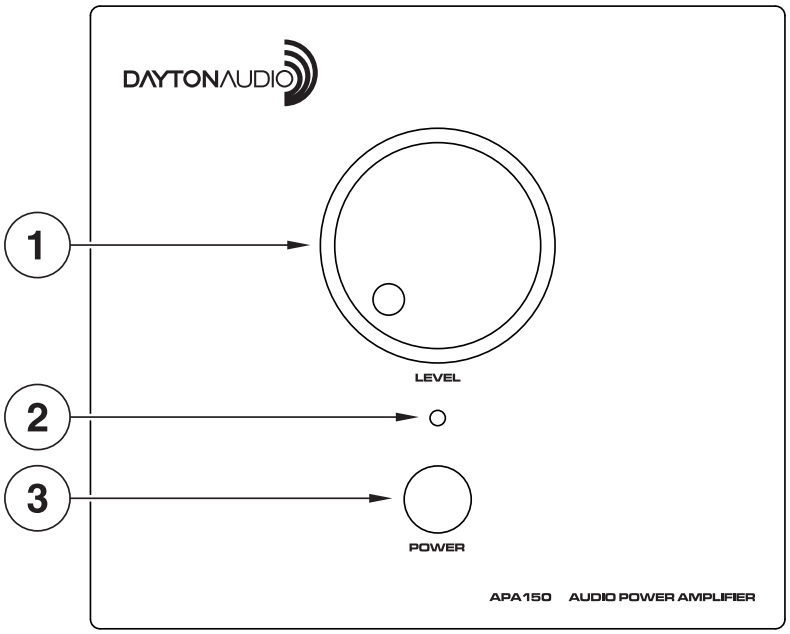
1. Ensure Low Pass-Flat switch is set to Low Pass.
2. Connect line-level input from source device.
3. Connect loud speakers as described below.
4. Adjust crossover frequency until desired output is reached.

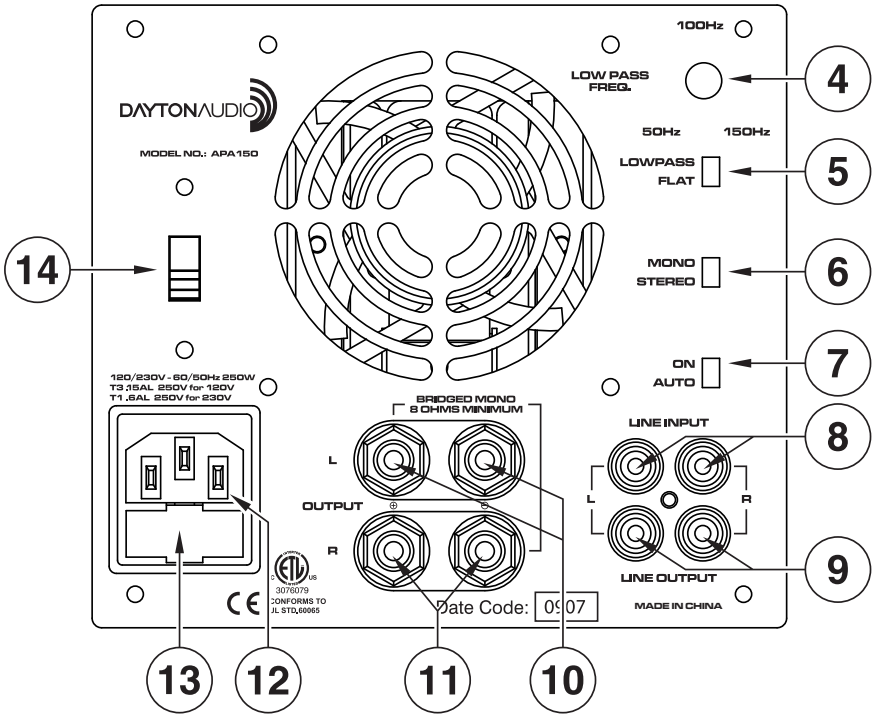
Connecting your loudspeakers for stereo operation

1. Ensure that the amplifier is powered down.
2. Remove approximately 1/2” of the insulation from your speaker cables’ positive and negative conductors.
3. Loosen the speaker binding posts by turning the knobs counter-clockwise, exposing the wire insert hole.
4. Observing polarity, insert the conductors into their appropriate binding posts and tighten the knobs down, securing the conductors in place.

Connecting your loudspeaker for bridged-mono operation

1. Set the Mono-Stereo switch to Mono position.
2. Remove approximately 1/2” of insulation from your speaker cables’ positive and negative conductors.
3. Loosen speaker binding posts by turning the knobs counter-clockwise, exposing the wire insert hole.
4. Connect positive conductor to top left binding post.
5. Connect negative conductor to bottom right binding post.





① Level Adjustment

② Status LED:
Red - Standby/Protection
Blue - Amplifier On

③ Power Button

④ Low Pass Frequency Adjustment: 50-150 Hz

⑤ Low Pass/Flat Selector Switch

⑥ Mono/Stereo Speaker Output Switch

⑦ Auto Turn-On/On Selector Switch

⑧ Line-Level Input

⑨ Line-Level Output

⑩ Left Speaker Output

⑪ Right Speaker Output

⑫ IEC Power Cord Input

⑬ T3.15AL/T1.6AL 250V Fuses

⑭ 120/230 Voltage Selector Switch

SPECIFICATIONS:

Power Output:	75 watts RMS x 2 into 4 Ω, 150 watts RMS x 1 into 8 Ω
Total Harmonic Distortion:	Less than 0.01% (20-20,000 Hz)
Signal-to-Noise Ratio:	>100 dB, unweighted
Crossover:	Variable 50-150 Hz, 18 dB/octave
Auto-On Sensitivity:	3 mV
Auto-Off Delay Time:	15 minutes
Input Impedance:	47 k Ω ±5%
Line-Out Frequency Response:	20-20,000 Hz (-3 dB)
Maximum Noise and Hum:	Less than 1 mV with gain at maximum and input shorted
Minimum Clearance for Ventilation:	2"
Electrical Requirement:	120V 60 Hz, 230V 50 Hz (switchable)
Stand-by Power Rating:	120V 6W; 230V 7W
Dimensions:	5.6" H x 5.7" W x 12.8" D
Weight:	11.05 lbs.

IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified personnel. To reduce the risk of fire and shock do not expose unit to rain or moisture. The unit should be connected to an earth grounded AC electrical socket. The unit should be operated in a well ventilated area. Minimum clearance is 2 inches from the ventilation openings.

Note: Unit is set at the factory for 120V operation. Be sure to change the fuse (1.6A rating) before switching to 230V operation.

Warranty Information

Dayton Audio products are warranted free from defects in material and workmanship for **5 years** from date of purchase. **1 year** warranty applies to the following products: powered subwoofers and electronic devices (e.g. subwoofer amplifiers, and plate amplifiers, as well as the Omnimic V2 and DATS loudspeaker testing devices). In the rare case of a product failure, please contact your place of purchase or call our Customer Support Department at (937) 743-8248.

Warranty Limitations

There are no other warranties, either expressed or implied, that extend the foregoing, and there are no warranties of merchantability or fitness for any particular purpose. Dayton Audio is not responsible for any consequential or inconsequential damage to any other unit or component or the cost for installation or extraction of any component of the audio system, or for the improper use of products. This includes but is not limited to burnt voice coils, overheating, bent frames, holes in the cone, or broken lead wires.

This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Non-Warranty Service: If non-warranty service is required, the product may be sent to the Company for repair/replacement, transportation prepaid, by calling (937) 743-8248 for details, complete instructions, and service fee charges.

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