



# Cantata m100 Amplifier

## Getting Started Guide



resolution

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# Safety Information



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

- Check that the operating voltage of your unit is identical to that of your local power supply.
- Replace fuses only with identically rated fuses.
- To reduce risk of electrical shock, keep the unit dry and grounded. Do not operate the unit near water.
- If the unit causes RF interference with another product, move one unit or both until the interference is eliminated. If the interference cannot be sufficiently reduced, cease operation and consult Resolution Audio.
- Clean the chassis, faceplate, and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.
- Do not discard the original box and packing materials. When shipping the unit to another location or for repair work, repack in original material.
- Do not attempt to service this product. All servicing should be referred to qualified service personnel.
- Do not install the unit in a location near heat sources such as radiators or heat ducts, or in a place subject to mechanical vibration or shock.

# Warranty Information

Resolution Audio warrants the Cantata m100 Amplifier against faulty workmanship or defective materials for a period of three (3) years from date of shipment. If a defect occurs within this period, Resolution Audio will repair, replace, or issue a credit for the product at our discretion. Prior to return, authorization is required. All merchandise must be returned in the original packing material with all accessories. If a product is recalled and it is not returned within 90 days, the warranty is void. This warranty is not transferable. Resolution Audio assumes no responsibility for defects resulting from misuse, neglect, improper installation, unauthorized repair, alteration, inadequate packing, or accident. No other obligations expressed or implied shall be assumed by Resolution Audio.

# Unpacking

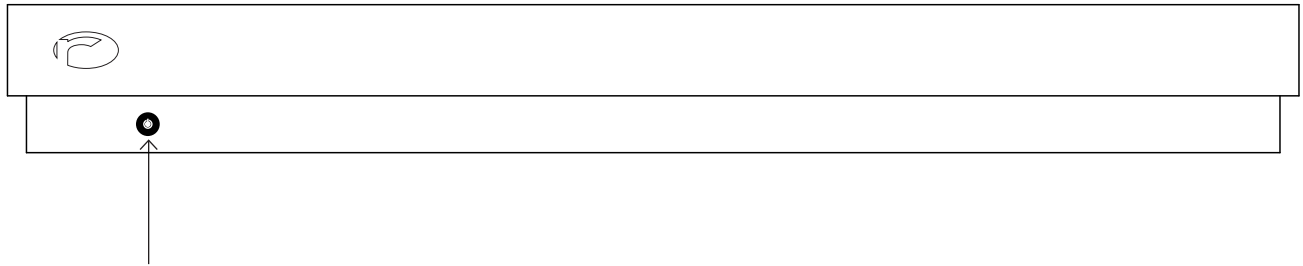
After unpacking your Cantata m100 Amplifier, inspect it for any shipping damage and contact us immediately if any is found. Do not plug the unit into any outlet if you discover any shipping damage.

Please keep all packing materials for future transport of your amplifier, and please do not detach the foam from the inside of the shipping crate. The crate is designed for easy reuse should it be needed and is well-tested to ensure the safety of the device. Shipping the unit in anything other than its original crate may result in damage that is not covered by warranty. If you require a replacement crate or other packing materials, please contact Resolution Audio.

## Installation

1. Turn off any associated components prior to connecting the Cantata m100 Amplifier. This minimizes the chance of momentary electrical surges disturbing your system.
2. Set the power switch on the rear of the unit to the OFF position, attach the power cord and connect it to your electrical outlet. (The OFF position is selected when the “0” symbol on the switch is depressed.)
3. Connect the analog outputs of your pre-amplifier or Cantata Music Center to each m100 amplifier via RCA or XLR interconnects (but never both RCA and XLR at the same time). **Each m100 is shipped with a jumper in the XLR input. This jumper must be left in place when using the RCA input. Simply remove the jumper to use the XLR input.**
4. Connect your speakers to the output jacks on the rear of the amplifier. There are two sets of output jacks provided to assist with bi-wired configurations. The two sets are in parallel internally. Use either set if using standard speaker cables. CAUTION! The differential circuitry employed in the m100 amplifier requires special attention when connecting speakers. Do not connect negative speaker terminals of two amplifiers together. Do not connect the negative speaker terminals to ground. Do not connect the m100 amplifier to a speaker selector device that employs a ground scheme, as it may short-circuit the amplifier output. Be sure to observe proper polarity (red +, blue -). You can connect the yellow jack to a loudspeaker ground if it is available.
5. Turn on the rest of your system. It is a good habit to turn the amplifier on last, and off first, to prevent surges and transients from reaching your loudspeakers.
6. Turn on the main power switch on the rear panel of the Cantata m100 Amplifier. (The ON position is selected when the “I” symbol on the switch is depressed.) The unit will begin in low-power standby mode. Press the standby button on the front panel. The unit will take a few seconds to initialize and music can then be enjoyed.

# Front Panel



**Standby** – Toggles the player between normal operation and standby. In standby, the unit enters a low-power mode. The LED in the standby button is lit when in standby, and is off in normal operation (assuming the rear panel switch is turned on).

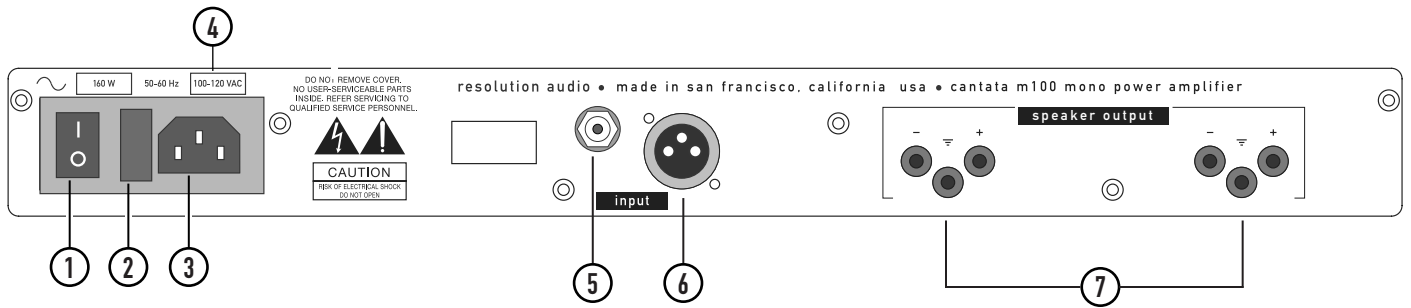
## Thermal Protection

If the m100's temperature gets too high, the amplifier will activate thermal protection which consists of the following:

- The output will be muted allowing the circuitry to begin cooling.
- The standby LED will blink to indicate protection has been triggered.
- Once the amplifier has cooled sufficiently the standby LED will stop blinking the amplifier will go into standby. Normal operation may be resumed by pressing the standby button once.

If the unit consistently overheats, consider relocating the unit for better air circulation or to a cooler environment.

# Rear Panel



## Power Connections and Main Power Switch

- 1 **Power Switch** – When off, power is completely disconnected from the amplifier.
- 2 **Fuse** – Replace only with time-lag fuse, IEC 60127 Type 3  
**Rating** – 100-120 VAC use 1.6 A, for 200-240 VAC use 1A
- 3 **Mains power** – Connect to mains using IEC power cord.
- 4 **Voltage Indication** – Be certain the Cantata m100 Amplifier has been configured for your local mains voltage.

## Analog Inputs

- 5 **RCA** – Connect to unbalanced source. 10 kOhm input impedance.
- 6 **XLR** – Connect to balanced source. 20 kOhm input impedance, 10 kOhm per phase.  
XLR connector pin configuration: pin 1 ground, pin 2 non-inverting (+), pin 3 inverting (-)

## Analog Outputs

- 7 **Speaker Outputs**, 4mm Banana 2 sets provided

**CAUTION!** The differential circuitry employed in the m100 amplifier requires special attention when connecting speakers. Do not connect negative speaker terminals of two amplifiers together. Do not connect the negative speaker terminals to ground. Do not connect the m100 amplifier to a speaker selector device that employs a ground scheme, as it may short-circuit the amplifier output. Be sure to observe proper polarity (red +, blue -). You can connect the yellow jack to a loudspeaker ground if it is available.

# Specifications

**Dimensions:** 43 x 22 x 5 cm (net) / 54 x 33 x 22 cm (shipping)  
**Weight:** 5.5 kg (net) / 12 kg (shipping)  
**Power Requirements:** Preconfigured at factory  
100-120 / 200-240 VAC, 50-60 Hz  
**Power Consumption:** 160 Watts maximum active mode, < 1 Watt standby mode

## **Inputs:**

**Balanced:** XLR  
**Single-Ended:** RCA (jumper must be installed in XLR input)

## **Outputs:**

**Speaker:** 2 pair, 4mm banana  
Red – positive (+)  
Blue – negative (–)  
Yellow – ground (if available on loudspeaker)

**Power Output:** 100 watts into 8 ohms <1%  
**Input Sensitivity:** 700mV for rated output  
**Gain:** +31.5dB



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