

Opus 21
s80 Integrated Amplifier
Owner's Manual



resolution

From all of us at Resolution Audio, thank you for choosing the Opus 21 s80 amplifier. We went to great lengths to design and produce an integrated amplifier that offers musical pleasure and superior performance.

Unpacking

After unpacking your Opus 21 s80 amplifier, inspect it for any shipping damage and contact us immediately if any is found. Do not plug it into the power supply if you find any shipping damage.

Please keep all packing materials for future transport of your amplifier. Shipping the Opus 21 in anything other than its original crate may result in damage that is not covered by warranty. If you require a replacement crate or packing materials, please contact Resolution Audio.

Should you need to repack the unit, be certain to place the amplifier between the supplied foam sheets, with the accessory box on top.

The accessory box contains the following items:

- Opus PowerLink cable
- (2) Toroidal power transformers for installation in your Opus 21 Power Centre
- Hardware to install the transformers
- Replacement fuse
- An integrated circuit to update the software in your Opus 21 Power Centre, if necessary

Installation

The s80 amplifier must be used in conjunction with your Opus 21 cd player and Power Centre.

If the toroidal power transformers have not yet been installed in your Power Centre, contact your dealer or Resolution Audio directly for assistance. The new fuse should also be installed in the power entry module located on the rear of the Power Centre.

The s80 amplifier must be located directly beneath your Opus 21 source components.

First, remove the dust cover from the connector located on the bottom of your Opus 21 cd player. Next, position the cd player directly on top of the s80, ensuring the connectors are aligned. Press the connectors firmly together to secure the connection.

Locate the Opus 21 cd+s80 and Power Centre on your shelf.

Be sure to leave space around the s80. It should be placed on a firm surface to allow adequate ventilation. We recommend that the Power Centre be placed on a separate shelf for optimum performance.

Turn off any associated components prior to connecting the Opus 21.

This minimizes the chance of momentary electrical surges disturbing your system.

Connect the OpusLink interconnect to both the cd player and Power Centre.

Note that the cable can only be installed in one direction. Secure the connectors by hand-tightening the integral screws.

Connect the Opus PowerLink cable to both the s80 and Power Centre.

Note that the cable can only be installed in one direction.

Connect your speaker cables to the s80 using either spade lugs or banana jacks.

The optional binding posts work best with spade lugs. Ensure proper polarity, which is indicated on the top of the connector. If your speaker is fitted with a separate ground connection, it may be attached to the center (yellow) banana jack, which is returned to the amplifier star-ground.

With the power switch in the OFF position, attach the power cord and connect it to your outlet.

The OFF position is selected when the O symbol on the switch is depressed.

Turn on the main power switch.

The ON position is selected when the | symbol on the switch is depressed. The Opus 21 will take a few seconds to initialize and read the disc if present. The s80 selects the cd as the default input.

Turn on the rest of your system.

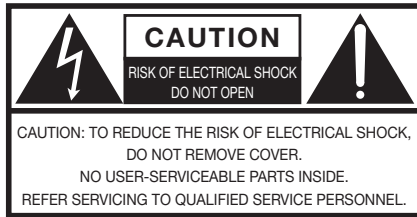
It is a good habit to turn the amplifier on last, and off first, to prevent surges and transients from reaching your loudspeakers.

Insert a disc and press PLAY, or select another input.

The s80 amplifier will automatically select the cd input when a disc is played. Analog inputs may be selected from the remote control or directly from the front panel. The digital input of the cd player is accessed only from the remote control.

The Opus 21 is designed to remain powered continuously. In standby mode, the display is turned off and the output is muted, but all of the circuitry remains powered. The output modulator is also disabled in standby. If you do not intend to use the player for an extended period of time, the power may be removed via the power switch in the rear. When power is re-applied, the Opus 21 will warm up and sound its best in about 1 hour.

Safety Precautions



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

Resolution Audio warrants all products against faulty workmanship or defective materials for a period of three (3) years from date of shipment, with the exception of transport mechanisms. Transport mechanisms are covered for one (1) year. 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 transferrable. 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.

Warranty Registration

SAVE YOUR SALES SLIP AND REGISTER AT WWW.RESOLUTIONAUDIO.COM

- You must be able to show evidence of purchase date to obtain warranty parts and service
- Warranty registration of your unit ensures that you will be contacted immediately if there should be a safety inspection, modification, or other product recall under applicable laws or regulations or otherwise. If you did not purchase directly from Resolution Audio, please visit www.resolutionaudio.com to register.

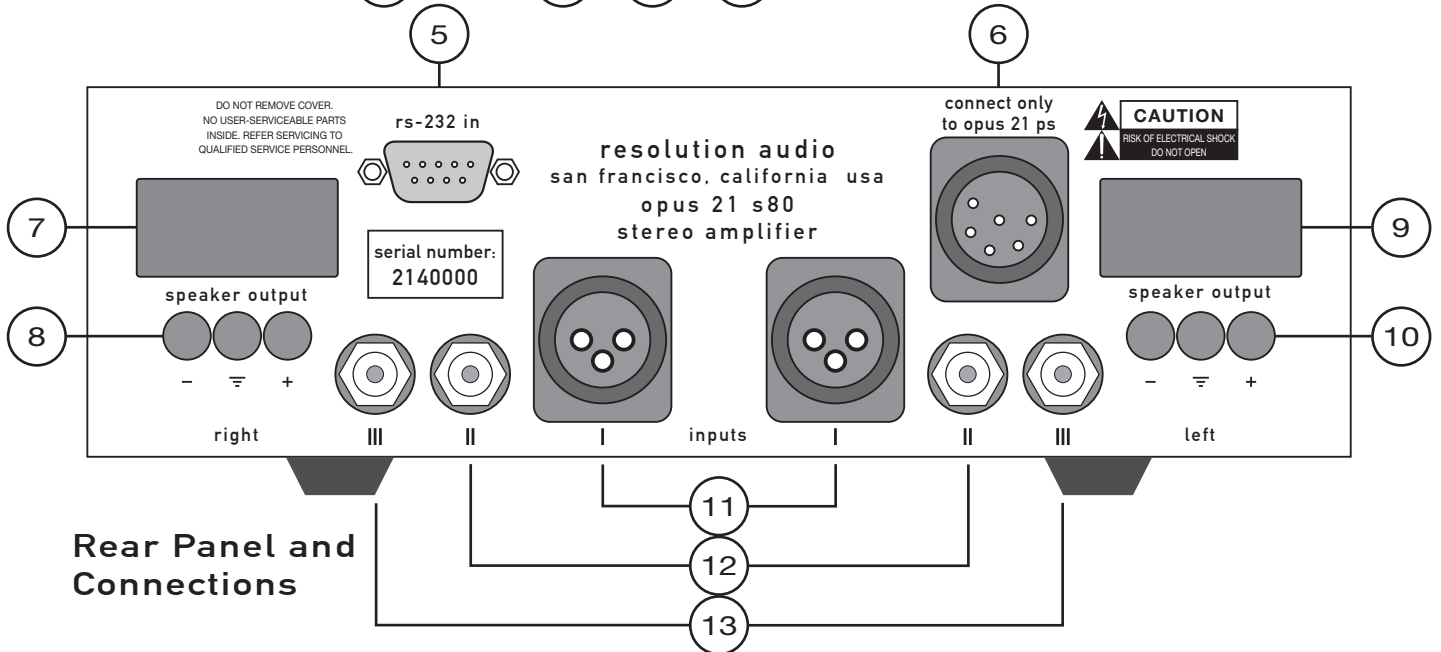
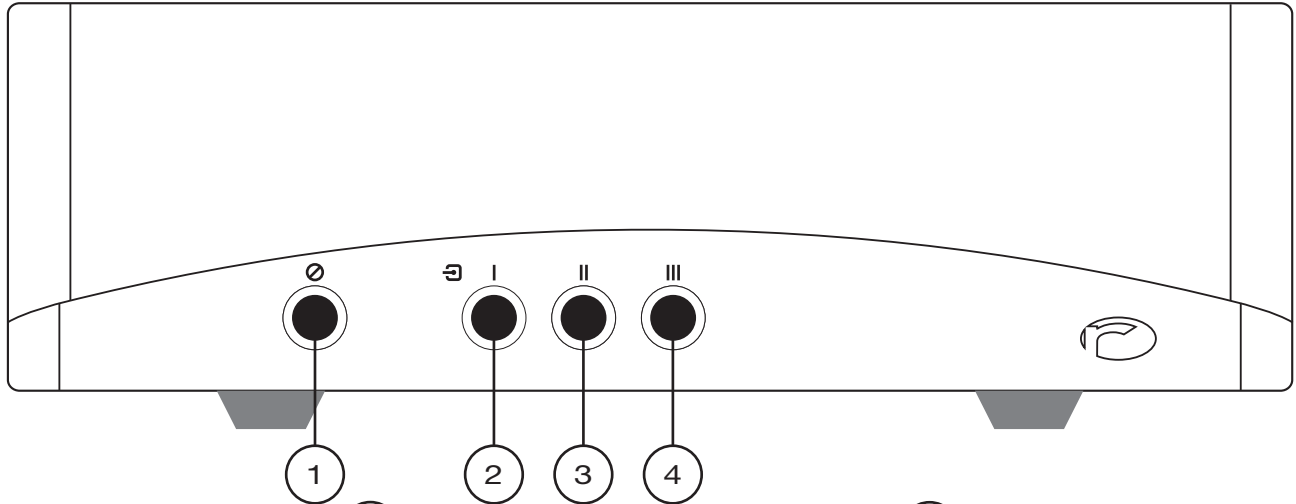
Model: Opus 21 s80
Integrated Amplifier

Serial Number: _____





Purchase Date: _____

Purchased From: _____

Front Panel and Controls



Rear Panel and Connections

- 1  Press to mute/un-mute the output. The volume level display will flash when muted.
- 2  Press to select input 1, balanced (XLR).
- 3  Press to select input 2, unbalanced (RCA).
- 4  Press to select input 3, unbalanced (RCA).
- 5 RS-232 Input - DB9 female
For automated systems, connect to serial controller (listen-only).
- 6 Opus PowerLink connection - 6 pin XLR male connector
Connect only to Opus 21 Power Centre using supplied cable.
- 7 Speaker Output Left - Binding Post (optional)
Designed for cables with spade lugs. Observe polarity (+/-) markings on the top of the connector.
- 8 Speaker Output Left - 4mm Banana
Observe polarity (red +, blue -). Connect the center (yellow) jack to loudspeaker ground if available.
- 9 Speaker Output Right - Binding Post (optional)
Designed for cables with spade lugs. Observe polarity (+/-) markings on the top of the connector.
- 10 Speaker Output Right - 4mm Banana
Observe polarity (red +, blue -). Connect the center (yellow) jack to loudspeaker ground if available.
- 11 Analog input 1 - XLR female connector, pin 2 non-inverting, pin 3 inverting
Connect to balanced source. 20 Vrms maximum, 20 kOhm input impedance (10 kOhm per phase).
- 12 Analog input 2 - RCA connector
Connect to unbalanced source. 10 Vrms maximum, 10 kOhm input impedance.
- 13 Analog input 3 - RCA connector
Connect to unbalanced source. 10 Vrms maximum, 10 kOhm input impedance.

RS-232 Serial Control

The s80 amplifier contains a serial control input which allows your entire Opus 21 family to be operated from an automated controller. The RS-232 port operates in listen-only mode and is opto-coupled to prevent ground loops. Programming commands and configuration details are available on our web site.

Thermal Protection

Due to the high-efficiency design of the s80, overheating is unlikely. Should the thermal protection be triggered, the amplifier will mute the outputs. The display will indicate the internal temperature. Once the amplifier has cooled sufficiently, the display will return to normal and the amplifier can then be un-muted.

Specifications

Dimensions 24 x 25 x 7.5 cm / 9.5 x 9.8 x 3" W x D x H

Weight 9.5 kgs / 21 lbs. shipping

Power Output 80 Watts continuous into 8 Ohms

Frequency Response +/- 0.1 dB from 20 Hz - 20 kHz

Maximum Gain +29.5 dB at volume level 99

Attenuation 0.5 dB steps from -30 dB to full scale

1.0 dB steps from -69 dB to -31dB

Inputs Direct connection to Opus 21 sources / cd player

(1 pair) Analog balanced via XLR

(2 pair) Analog single-ended via RCA