EN

QUICK START GUIDE

JBL SYNTHESIS®

POWER AMPLIFIER

SDA-7120/SDA-2200

Safety Guidelines

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.

   A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

    When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel.

    Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Object or liquid entry

    WARNING – Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. The equipment shall not be exposed to dripping or splashing. Liquid-filled objects such as vases should not be placed on the equipment.
16. Climate

    The equipment has been designed for use in moderate climates and in domestic situations.
17. Cleaning

    Unplug the unit from the mains supply before cleaning.

    The case should normally only require a wipe with a soft, lint-free cloth. Do not use chemical solvents for cleaning.

    We do not advise the use of furniture cleaning sprays or polishes as they can cause permanent white marks.
18. Power sources

    Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment.

    The primary method of isolating the equipment from the mains supply is to remove the mains plug. The equipment must be installed in a manner that makes disconnection possible.
19. Abnormal smell

    If an abnormal smell or smoke is detected from the equipment, turn the power OFF immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.
20. Damage requiring service

    The equipment should be serviced by qualified service personnel when:

    A. The power-supply cord or the plug has been damaged, or

    B. Objects have fallen, or liquid has spilled into the equipment, or

    C. The equipment has been exposed to rain, or

    D. The equipment does not appear to operate normally or exhibits a marked change in performance, or

    E. The equipment has been dropped or the enclosure damaged.

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

Class II Product

This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth ("ground" in the U.S.)

Warning

Mains plug/appliance coupler is used to disconnect device and it shall remain readily operable.

Safety Compliance

This equipment has been designed to meet the IEC/EN 62368-1 international electrical safety standard.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

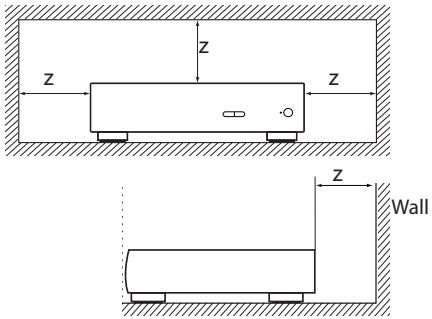
The building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.

Caution on Installation

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.

□ More than 0.3m (12in) is recommended.

□ Do not place any other equipment on this unit.



FCC Information (for US Customers)

PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by HARMAN may void your authority, granted by the FCC, to use the product.

NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- □ Reorient or relocate the receiving antenna.
- □ Increase the separation between the equipment and receiver.
- □ Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- □ Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

Safety Information (for European Customers)

- □ Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack.
- □ Handle the power cord carefully. Hold the plug when unplugging the cord.
- □ Keep the unit free from moisture, water, and dust.
- □ Unplug the power cord when not using the unit for long periods of time.
- □ Do not obstruct the ventilation holes.
- □ Do not let foreign objects into the unit.
- □ Do not let insecticides, benzene, and thinner come in contact with the unit.
- □ Never disassemble or modify the unit in any way.
- □ Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains.
- □ Naked flame sources such as lighted candles should not be placed on the unit.
- □ Observe and follow local regulations regarding battery disposal.
- □ Do not expose the unit to dripping or splashing fluids.
- □ Do not place objects filled with liquids, such as vases, on the unit.
- □ Do not handle the mains cord with wet hands.
- □ When the switch is in the OFF position, the equipment is not completely switched OFF from MAINS.
- □ The equipment shall be installed near the power supply so that the power supply is easily accessible.

A Note About Recycling

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

Correct Disposal of This Product

These markings indicate that this product should not be disposed with other household waste throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal and to conserve material resources, this product should be recycled responsibly.

To dispose of your product, please use your local return and collection systems or contact the retailer where the product was purchased.

Welcome

Thank you and Congratulations...

The JBL Synthesis SDA-2200 and SDA-7120 deliver dynamic Class G amplification with modern network capability, audiophile sound and exceptional flexibility. With balanced and single ended inputs, RS232 and IP control as well Dante™ audio networking, the SDA-2200 and SDA-7120 are superb choices for a broad range of applications.

Class G offers greater efficiency and transparency, with less wasted heat energy than Class A. Like a hybrid car engine, Class G implements multiple power supplies. The first power supply runs in pure Class A, which has no crossover distortion. If a dynamic signal is received that goes beyond the capability of this first power supply, the secondary supply is gradually incorporated up to full rated power output as required. This efficient design means additional power is only used when required. Modern high-speed silicon allows this switch to take place well beyond the audio bandwidth. Multiple output devices within the amplifier ensure your listening experience is powerful, dynamic and crystal clear.

The SDA-2200 and SDA-7120 feature Dante™ audio networking so you can connect with the JBL Synthesis SDR-35 AVR and SDP-55 immersive surround sound processor as well as other Dante-enabled products over Ethernet-based networks via Cat5e or Cat6 cable. Dante audio networking uses standard IP networks to transmit high-quality, uncompressed multi-channel audio with near-zero latency. It is flexible, reliable, and easy-to-manage and eliminates issues with interference, crosstalk and signal degradation associated with analog cable.

For the latest version of this guide, firmware updates, and other support material and links, please be sure to check ***www.jblsynthesis.com***.

JBL Synthesis Development Team

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JBL Synthesis SDA-2200 and SDA-7120 Amplifiers

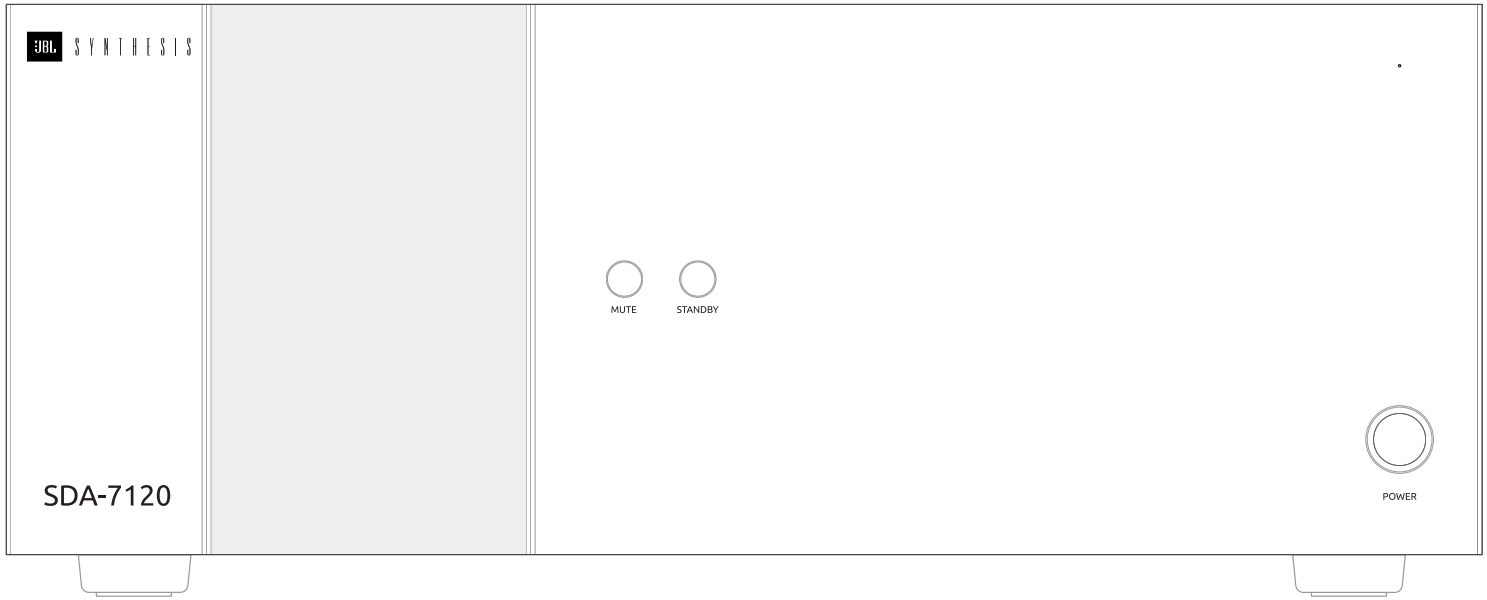
JBL Synthesis SDA-2200 and SDA-7120 power amplifiers provide exceptional sound quality for the best reproduction of your music.

Drawing many years of amplifier design experience, these products use the best quality components and engineering practice to produce amplifiers that will give many years of musical pleasure and reliable service.

With a toroidal based power supply, acoustically damped chassis, Class G technology and exceptionally low levels of distortion and noise, the SDA-2200 and SDA-7120 amplifiers are all capable of reproducing music with all its original detail.

Placing the Unit

- ☐ Place the amplifier on a level, firm surface, avoiding direct sunlight and sources of heat or damp.
- ☐ Do not place the SDA-2200 or SDA-7120 on top of a power amplifier or other source of heat.
- ☐ Do not place the amplifier in an enclosed space such as a bookcase or closed cabinet unless there is good provision for ventilation. The SDA-2200 and SDA-7120 are designed to run warm during normal operation.
- ☐ Do not place any other component or item on top of the amplifier as this may obstruct airflow around the heat-sink, causing the amplifier to run hot. (The unit placed on top of the amplifier would become hot, too).



- ☐ Do not place your record deck on top of this unit. Record decks are very sensitive to the noise generated by mains power supplies which will be heard as a background 'hum' if the record deck is too close.
- ☐ The normal function of the unit may be disturbed by strong electromagnetic interference. If this occurs, simply reset the unit with the power button, or move the unit to another location.

Interconnect Cables

We recommend the use of high-quality shielded cables that are designed for the particular application. Other cables will have different impedance characteristics that will degrade the performance of your system (for example, do not use cabling intended for video use to carry audio signals). All cables should be kept as short as is practically possible.

It is good practice when connecting your equipment to make sure that the AC power-supply cabling is kept as far away as possible from your audio cables. Failure to do so may result in unwanted noise in the audio signals.

For information on speaker cables, see "Connecting Sources and Loudspeakers" on page EN-12.

Power

The amplifier is supplied with a molded AC plug already attached to the cord. Check that the plug supplied fits your outlet.

If your AC voltage supply or power cord is different, please contact your JBL Synthesis dealer immediately.

The amplifier can be switched for operation between 220–240V (switch position 230V) and 110–120V (switch position 115V).

Note: Ensure that the amplifier is switched OFF and the power cord removed before changing the position of the voltage range switch.

Push the IEC plug end of the power cord into the socket on the back of the amplifier, making sure that it is pushed in firmly. Plug the other end of the cord into your AC outlet.

Rear Panel Connections and Controls SDA-7120

EN

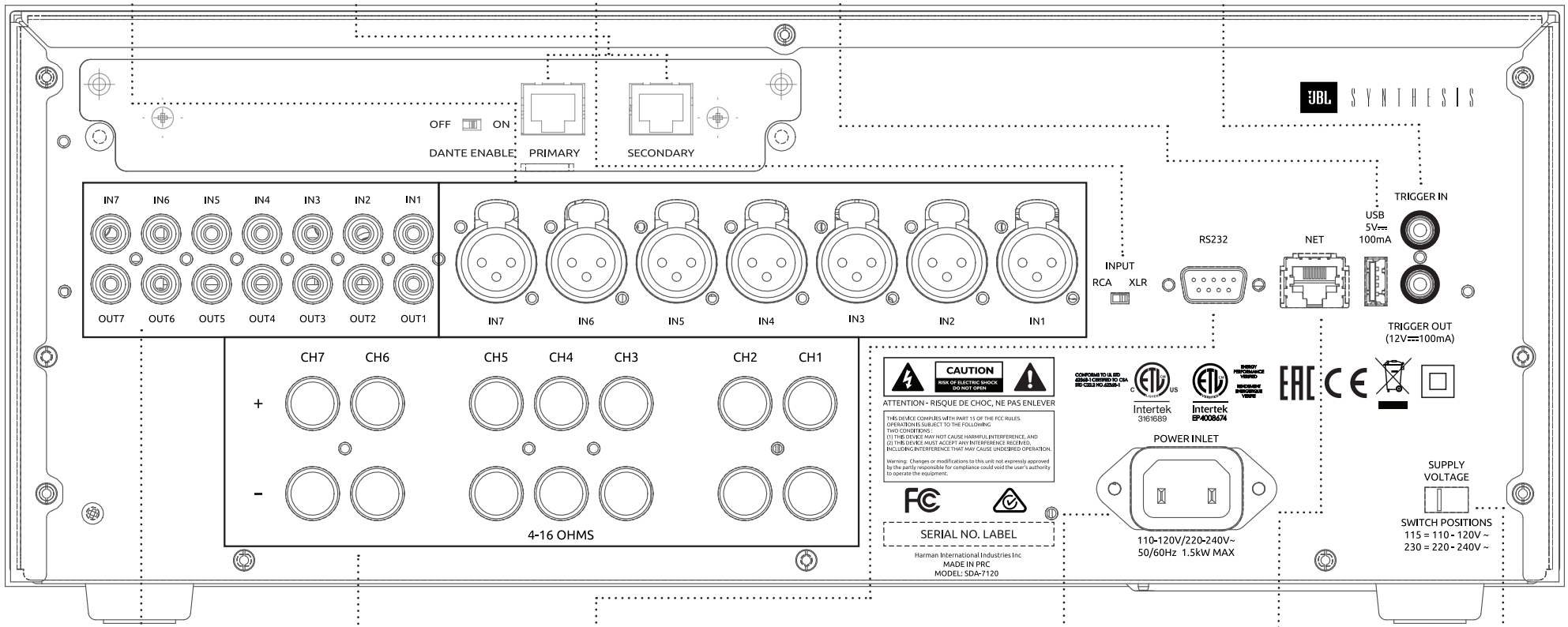
BALANCED XLR AUDIO INPUTS
Connect the XLR outputs of your pre-amplifier.
See "Connecting Sources and Loudspeakers" on page EN-12.

DANTE PORTS
See "Dante Ports" on page"Switching On" on page EN-11.

INPUT SWITCHES
Allow the SDA-7120 to be configured to different input types.
See "Connecting Sources and Loudspeakers" on page EN-12.

USB
For software upgrades only.
See "USB" on page EN-9.

TRIGGER IN / OUT
Trigger IN allows the SDA-7120 to be turned ON or OFF by an external source. Trigger OUT allows the SDA-7120 to control the power state of other connected equipment.
See "Trigger IN/OUT" on page EN-9.



PRE-AMPLIFIER INPUTS
Connect the phono outputs of your pre-amplifier.
See "Connecting Sources and Loudspeakers" on page EN-12.

PRE-AMPLIFIER OUTPUT
OUT1-OUT7 provide a copy of the signal applied to the IN1-IN7 phono sockets only, not the XLR.

Note: This is a passive output, no additional filtering or amplification is applied.

SPEAKER TERMINALS
See "Connecting Sources and Loudspeakers" on page EN-12.

RS232
This connection allows for remote control from a third-party home automation system or computer.
See "Network and RS232" on page EN-9.

POWER – AC PLUG
Connect the correct AC plug here.

NETWORK
This connection allows for remote control from a third-party home automation system or computer.
See "Network and RS232" on page EN-9.

VOLTAGE SELECT
Ensure that the voltage selected matches the local power supply.

Please read the sections "Placing the Unit", "Power" and "Interconnect Cables" on page EN-6 before connecting your SDA-7120 amplifier!

Rear Panel Connections and Controls SDA-2200

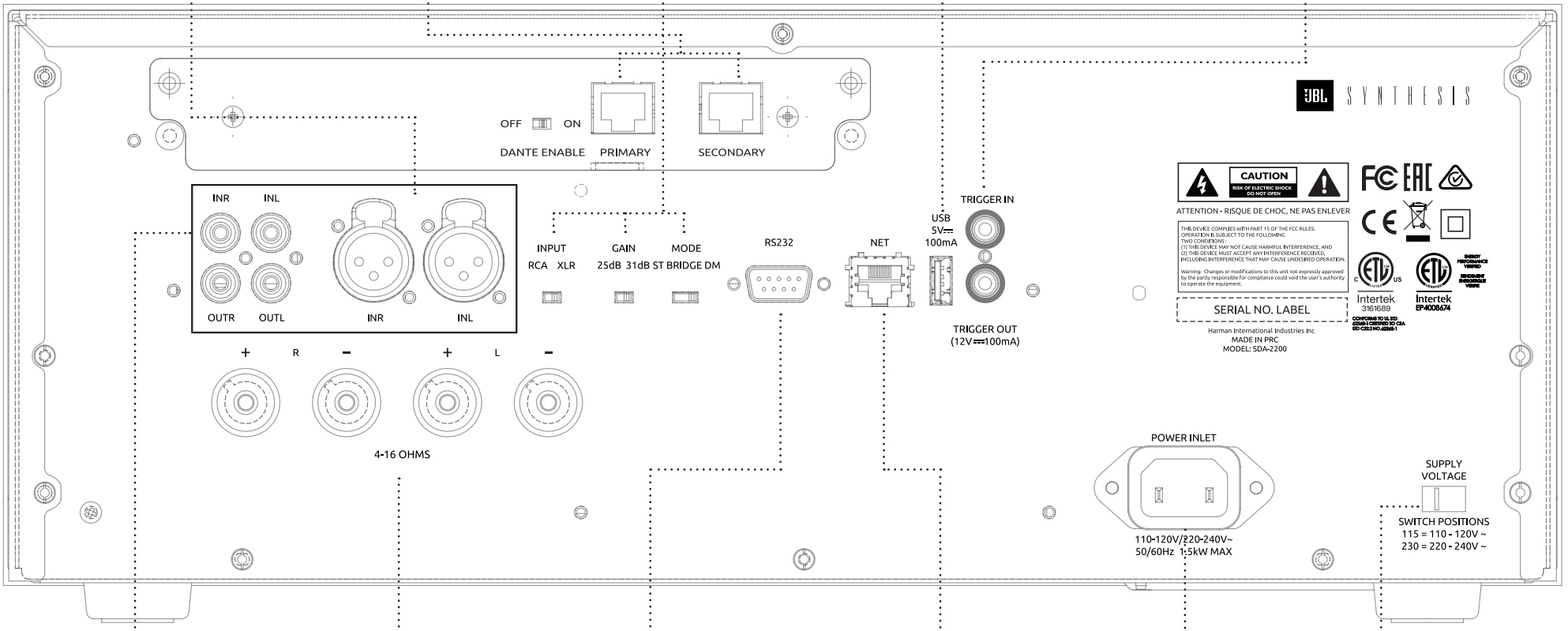
BALANCED XLR AUDIO INPUTS
Connect the XLR output of your pre-amplifier.
See "Connecting Sources and Loudspeakers" on page EN-12.

DANTE PORTS
See "Dante Ports" on page"Switching On" on page EN-11.

INPUT SWITCHES
Allow the SDA-2200 to be configured in different operational modes.
See "Connecting Sources and Loudspeakers" on page EN-12.

USB
For software upgrades only.
See "USB" on page EN-9.

TRIGGER IN / OUT
Trigger IN allows the SDA-2200 to be turned ON or OFF by an external source. Trigger OUT allows the SDA-2200 to control the power state of other connected equipment.
See "Trigger IN/OUT" on page EN-9.



PRE-AMPLIFIER INPUTS
Connect the phono outputs of your pre-amplifier.
See "Connecting Sources and Loudspeakers" on page EN-12.

PRE-AMPLIFIER OUTPUT
OUTL and OUTR provide a copy of the signal applied to the IN L and IN R phono sockets only, not the XLR.

Note: This is a passive output, no additional filtering or amplification is applied.

SPEAKER TERMINALS
See "Connecting Sources and Loudspeakers" on page EN-12.

RS232
This connection allows for remote control from a third-party home automation system or computer.
See "Network and RS232" on page EN-9.

NETWORK
This connection allows for remote control from a third-party home automation system or computer.
See "Network and RS232" on page EN-9.

POWER – AC PLUG
Connect the correct AC plug here.

VOLTAGE SELECT
Ensure that the voltage selected matches the local power supply.

Please read the sections "Placing the Unit", "Power" and "Interconnect Cables" on page EN-6 before connecting your SDA-2200 amplifier!

Control System Connections

Network and RS232

The SDA-2200 and SDA-7120 feature a network and RS232 port that can be used to connect to a local network, computer or home automation sytem so that the amplifier can be controlled and monitored remotely.

Various third party systems are available providing sophisticated control over all of your entertainment devices. Contact your dealer or installer for details.

For technical details of control protocols please refer to the SDA-2200 / SDA-7120 RS232/IP control document, availbale for download at ***www.jblsynthesis.com,*** for further information.

Note: By default, network and RS232 control is disabled in standby to minimise standby power consumption. To enable network control see "Network and RS322 in Standby" on page EN-11.

USB

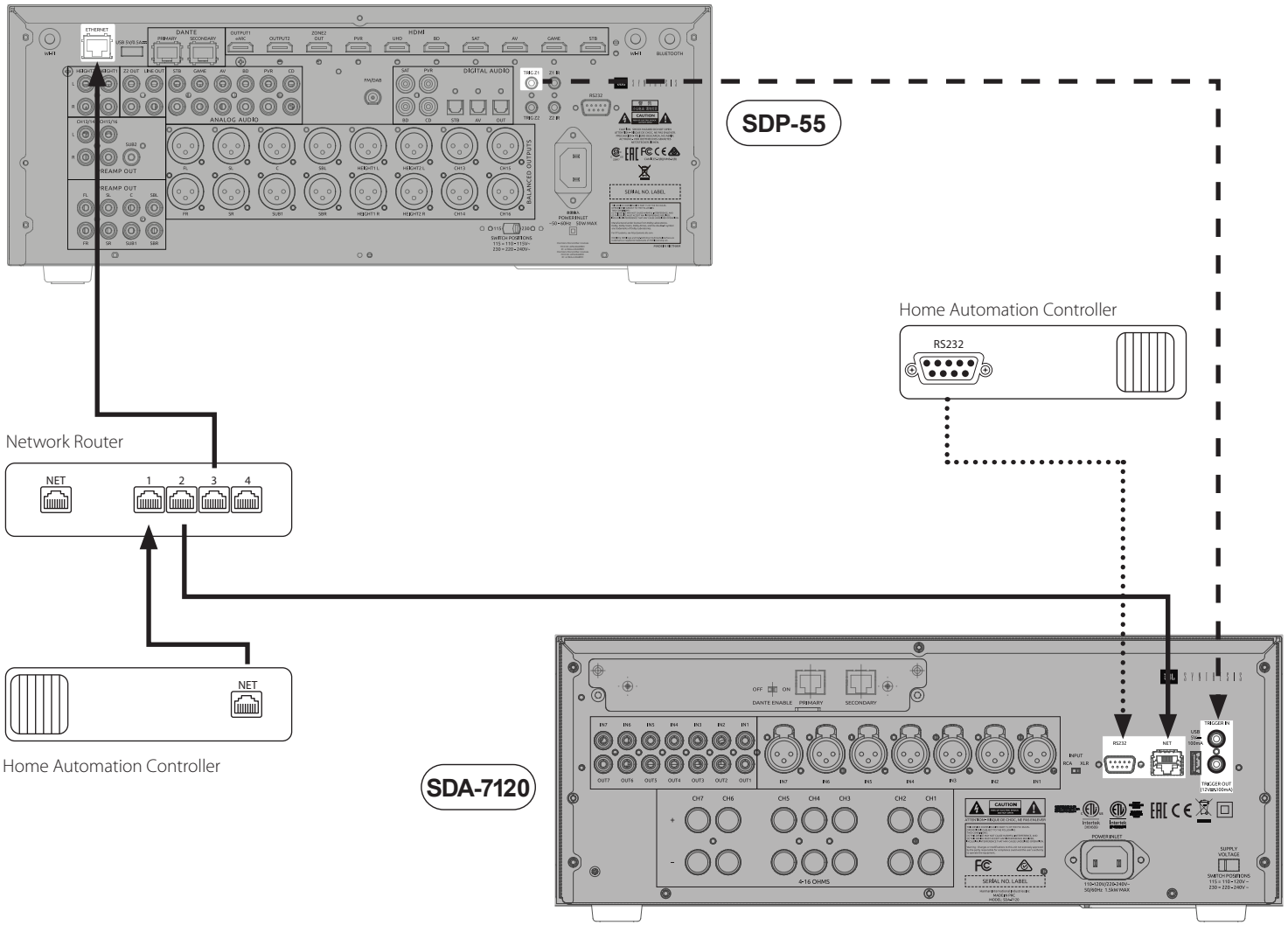
The USB port is used for software updates only. For the latest software as well as further information, please visit ***www.jblsynthesis.com***.

Trigger IN/OUT

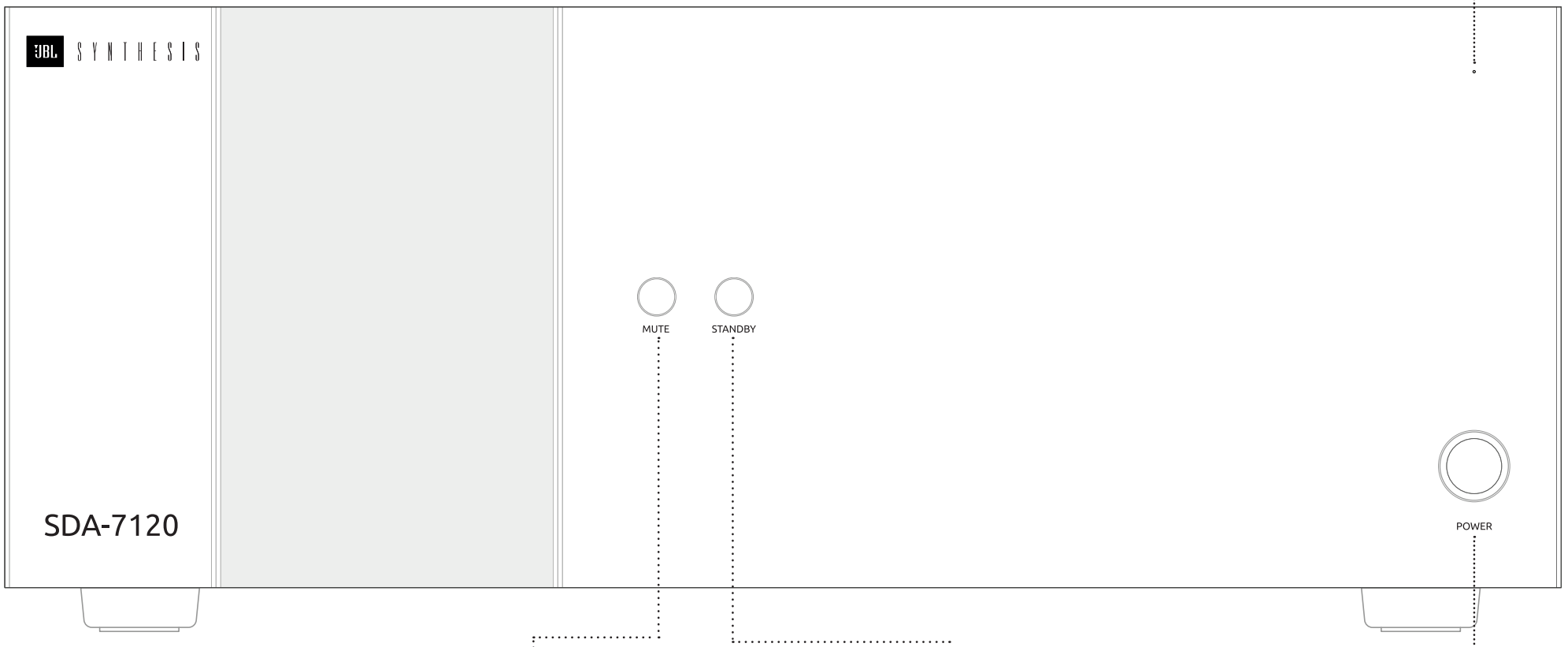
The power state of the SDA-2200 and SDA-7120 can be controlled by compatible audio/video sources (such as an JBL Synthesis AVR). In this case, connect the TRIGGER OUT of the source to the TRIGGER IN of the SDA-2200 or SDA-7120 using a mono 3.5mm jack lead.

Similarly, the SDA-2200 and SDA-7120 can control the power state of compatible product (such as another SDA-2200 or SDA-7120). In this case, connect the TRIGGER IN of the source to the TRIGGER OUT of the SDA-2200 or SDA-7120 using a mono 3.5mm jack.

Note: These leads are not supplied.



Front Panel Connections and Controls



Switching On

The **POWER** button switches the unit ON and OFF. The status indicator LED indicates the state of the amplifier: it changes from red to orange then white if mains power is connected and the unit is switched on.

Pressing the **STANDBY** button while the unit is powered on, will place the SDA-2200 or SDA-7120 into standby mode. Press the **STANDBY** button again to bring the unit out of standby.

Automatic Standby

In order to comply with international regulations for consumer products, this unit is designed to enter standby mode if no user interaction and no audio input signal are detected for an extended period of time (default is 20 minutes). The unit can be brought out of standby by pressing the **STANDBY** button on the front panel, the trigger input or RS232 or Ethernet command.

The standby time out can be adjusted using either RS232 or IP control commands. Please refer to the SDA-2200 / SDA-7120 RS232/IP control document, available for download from ***www.jblsynthesis.com***.

Alternatively, pressing and holding the **MUTE** button for more than 3 seconds will toggle the standby time-out between OFF and 20 Min.

Note: If the standby time-out is set to OFF, the automatic standby feature will be disabled.

Network and RS322 in Standby

In low power standby mode the network and RS322 functionality is disabled. To enable network and RS232 in standby, send a control or status request command to the unit while it is powered on. This will enable whichever control method was used when the unit is in standby.

Note: To indicate the unit is not in lowest power standby mode the LED will flash briefly when entering standby mode.

Note: Enabling network or RS232 control will increase standby power consumption. To restore the unit to the default low power standby consumption press and hold the **STANDBY** button for more than 3 seconds.

Dante Ports

Dante is a licensed technology from Audinate®. It uses standard Internet protocols over a 100Mb or gigabit network and is capable of transporting professional-quality, low-latency audio. Dante runs on standard computer networking hardware and does not require dedicated network infrastructure; Ethernet switches transmit Dante digital media streams alongside ordinary data traffic. The physical Dante connections must be made using Cat5e or Cat6 cables 100m/328ft between devices when using a gigabit network. The two Dante (RJ-45) ports on the back of the SDA-2200 and SDA-7120 can be used to receive high resolution digital audio from Dante enabled transmitting devices such as the JBL Synthesis SDR-35 AVR and SDP-55 surround sound processors.

Dante-enabled devices connected to the same network

Dante is configured and controlled using the Dante Controller software which is a free download for Windows or Mac OS and can be downloaded at ***www.audinate.com/products/software/dante-controller***.

Dante works independently of the unit control. Be sure to use the Dante jacks only for Dante networking applications. For more information on Dante, please visit ***www.jblsynthesis.com***.

Muting the Output

The speaker outputs of the SDA-2200 or SDA-7120 can be silenced by pressing the **MUTE** button on either the front panel or by sending the relevent command via either the RS232 or network connection.

If the unit is muted, front panel power indicator will change to orange. To cancel the mute, press the **MUTE** button again or send the relevent command via either the RS232 or network connection.

Mode Switches

The various mode switches located on the rear of the SDA-7120 and SDA-2200 amplifiers allow you to configure your power amplifier to your specific equipment setup. See "Connecting Sources and Loudspeakers" on page EN-12 for more information.

INPUT (SDA-7120 and SDA-2200 only)

This switch selects between the XLR and RCA phono inputs of the amplifier. Select which ever connection method you are using to connect your preamp.

GAIN(SDA-2200 only)

This switch allows the gain to be changed from standard JBL Synthesis gain of 31dB (which matches all JBL Synthesis amplifiers and receivers) to 26dB. This allows flexibility to connect multiple SDA-2200 amplifiers in different modes to multiple speakers.

In normal set-ups this switch should be left at 31dB.

MODE (SDA-2200 only)

This switch selects between the different amplification modes of the SDA-2200.

STEREO (ST)

This is the standard stereo amplification mode using two separate preamp inputs driving two separate speaker outputs.

DUAL MONO (DM)

This mode allows two separate speakers to be driven from a single preamp input. Alternatively the two drivers of a single speaker can be bi-amped from a single SDA-2200.

BRIDGED MONO (BRIDGE)

This mode uses both channels of the SDA-2200 to drive a single speaker. This the ultimate in high power, high fidelity amplification.

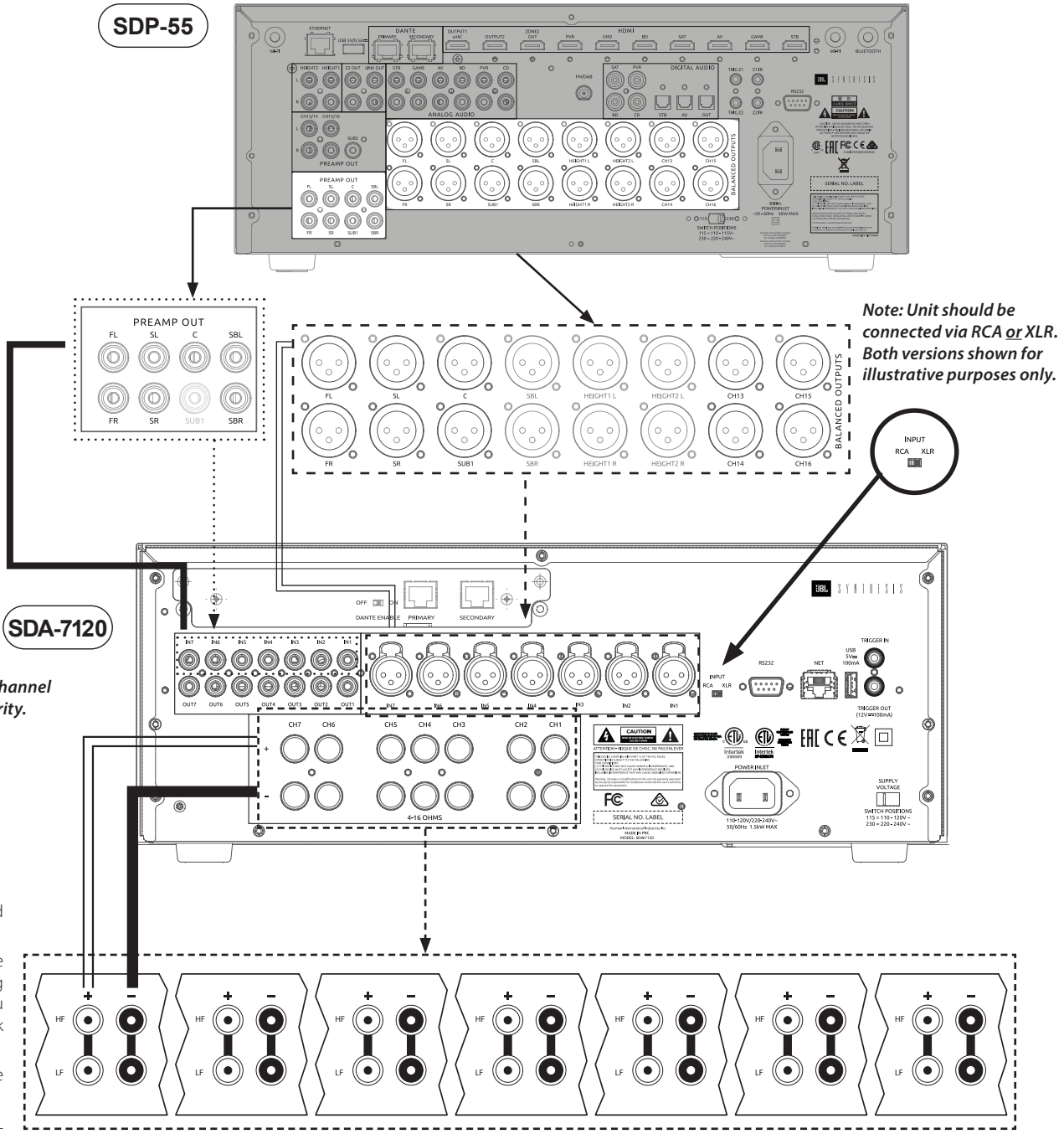
Connecting Sources and Loudspeakers

SDA-7120

Connect the **RED** positive speaker terminal labelled **CH1 to CH7+** to the positive terminal of your speaker. Similarly, connect the **BLACK** negative speaker terminal of the same channel to the negative terminal of your speaker.

Repeat this process for the other speakers, using the same respective input and speaker terminals for each channel.

Note: All the channels are identical so there is no requirement to connect specific AVR output channels to specific amplifier channels.



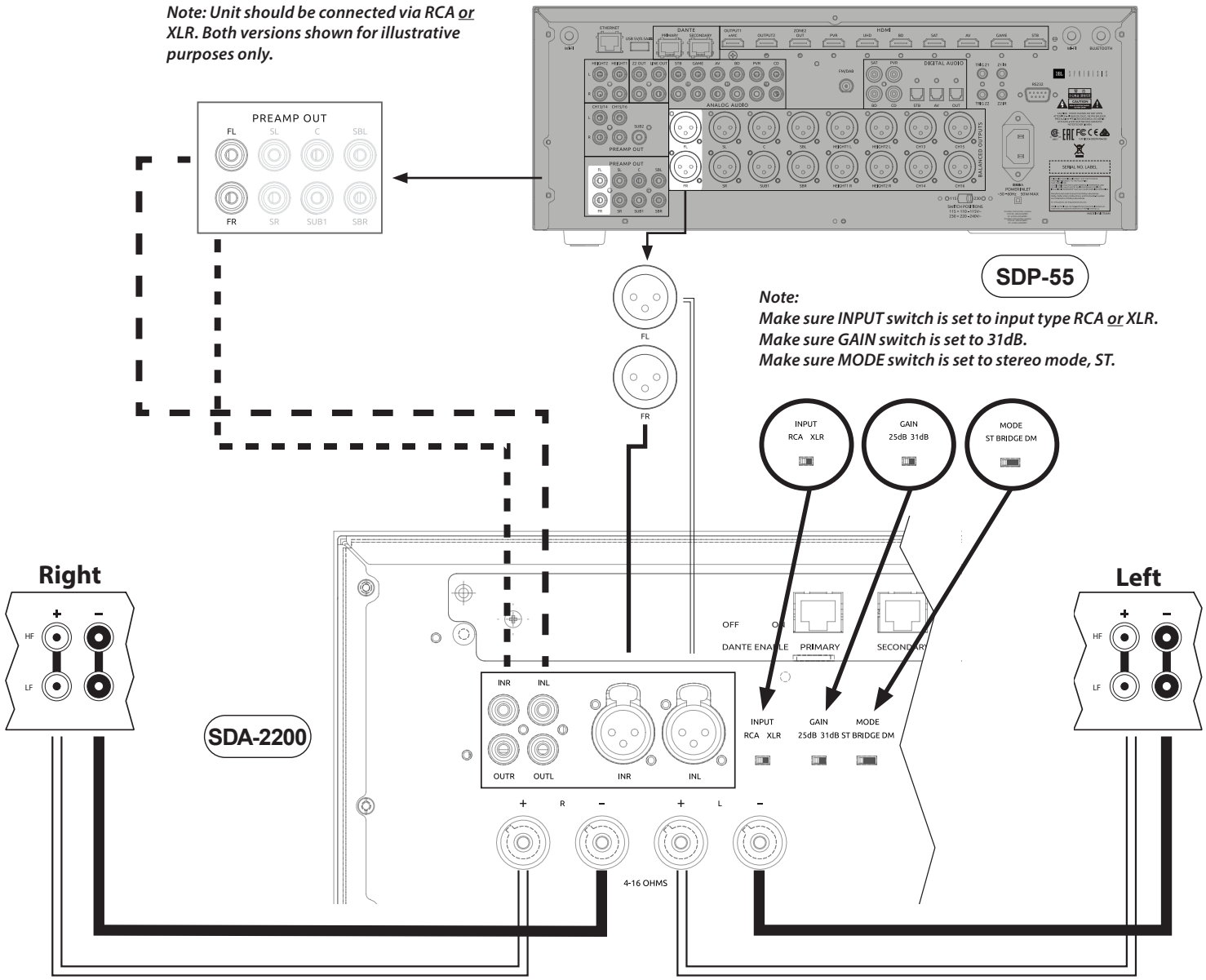
Notes on Making Speaker Connections

- ☐ Do not make any connections to any amplifier while it is switched on. We recommend that your amplifier is completely disconnected from the mains supply before starting.
- ☐ Before switching your amplifier ON for the first time after connecting to speakers, please check all connections thoroughly. Ensure that bare wires or cables are not touching each other or the amplifier's chassis (which could cause short circuits), and that you have connected positive (+) to positive and negative (–) to negative. Be sure to check the wiring for both the amplifier and the speaker.
- ☐ After making connections: switch the amplifier ON then gradually increase the volume to the required listening level.
- ☐ If you are unsure as to how your system should be connected, please contact your JBL Synthesis dealer who will be happy to help you.

SDA-2200

Connect the **RED** positive speaker terminal labelled **L+** to the positive terminal of your speaker. Similarly, connect the **BLACK** negative speaker terminal labelled **L-** to the negative terminal of your speaker.

Repeat this process for the right speaker.



Bridged Mono Mode – SDA-2200 Only

Bridged mono mode requires the use of a SDA-2200 for each channel.

Note: In bridged mode only the **L+** and **R+** speaker outputs are required.

WARNING: Do not make any connections to the L- or R- speaker terminals, doing so will severely damage your amplifier.

On one of the SDA-2200's, connect the **RED** positive speaker terminal labelled **L+** to the positive terminal of your left speaker.

Connect the **RED** positive speaker terminal labelled **R+** to the negative terminal of your left speaker.

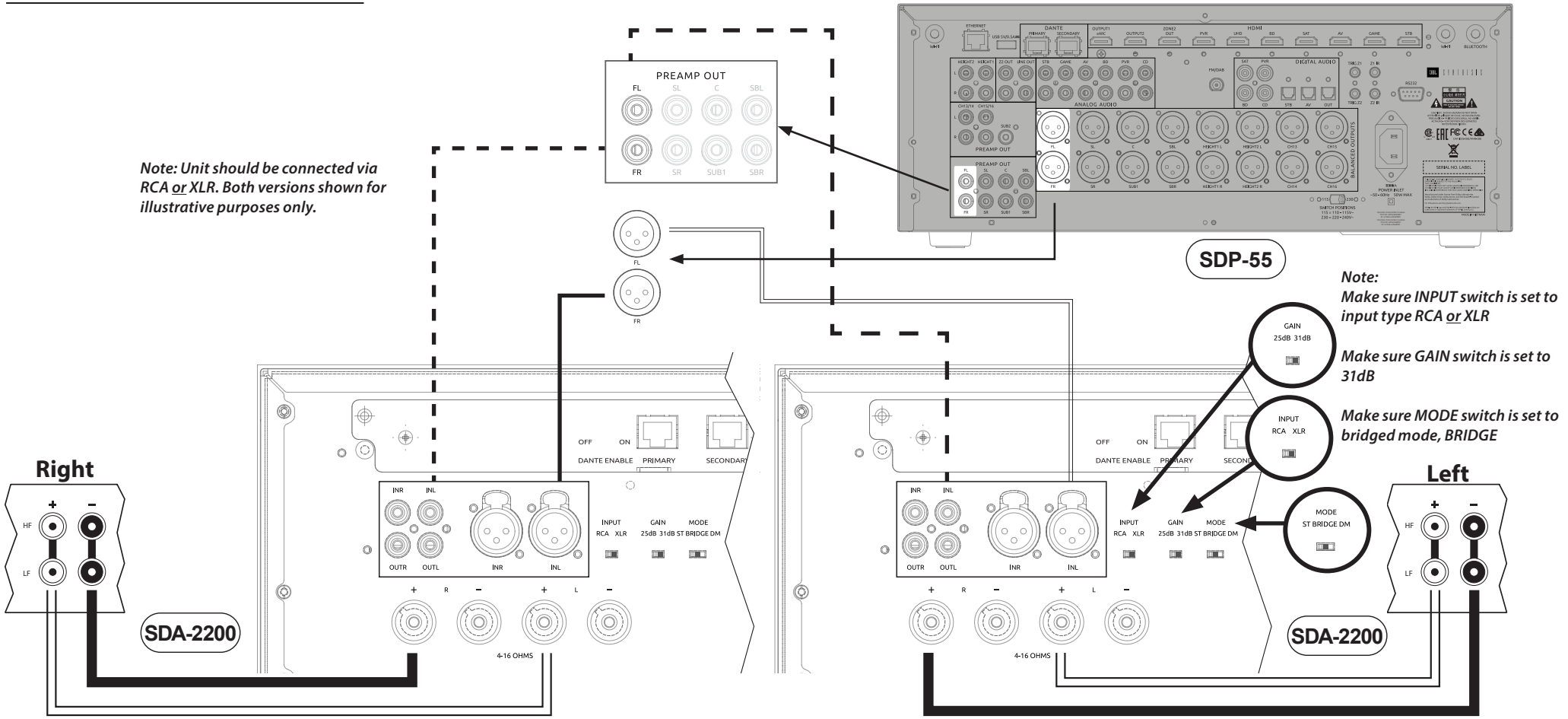
Repeat this process for the right speaker, using the **SAME** terminals on the other SDA-2200.

Note: L+ must be connected to the positive speaker terminal and **R+** to the negative speaker terminal on **BOTH** speakers otherwise the speakers will be out of phase.

WARNING: Make ABSOLUTELY sure you have used the L+ and R+ terminals of the SDA-2200. L- and R- terminals are NOT required in this arrangement.

In this setup only one interconnect is required to each power amplifier and it should be connected to the **IN L** input. The interconnects can be either XLR (recommended for longer cable runs) or phono (RCA). Set the **INPUT** switch on both of the SDA-2200's to the appropriate setting for the cables used.

Note: The **IN R** input has no function in this arrangement.



Dual Mono / Bi Amp Mode – SDA-2200 Only

Dual mono requires the use of a SDA-2200 for each channel.

On one of the SDA-2200's, connect the **RED** positive speaker terminal labelled **L+** to the positive LF terminal of your left speaker. Similarly, connect the **BLACK** negative speaker terminal labelled **L-** to the negative LF terminal of your left speaker.

Using a second speaker cable connect the **RED** positive speaker terminal labelled **R+** to the positive HF terminal of your left speaker. Similarly, connect the **BLACK** negative speaker terminal labelled **R-** to the negative HF terminal of your speaker.

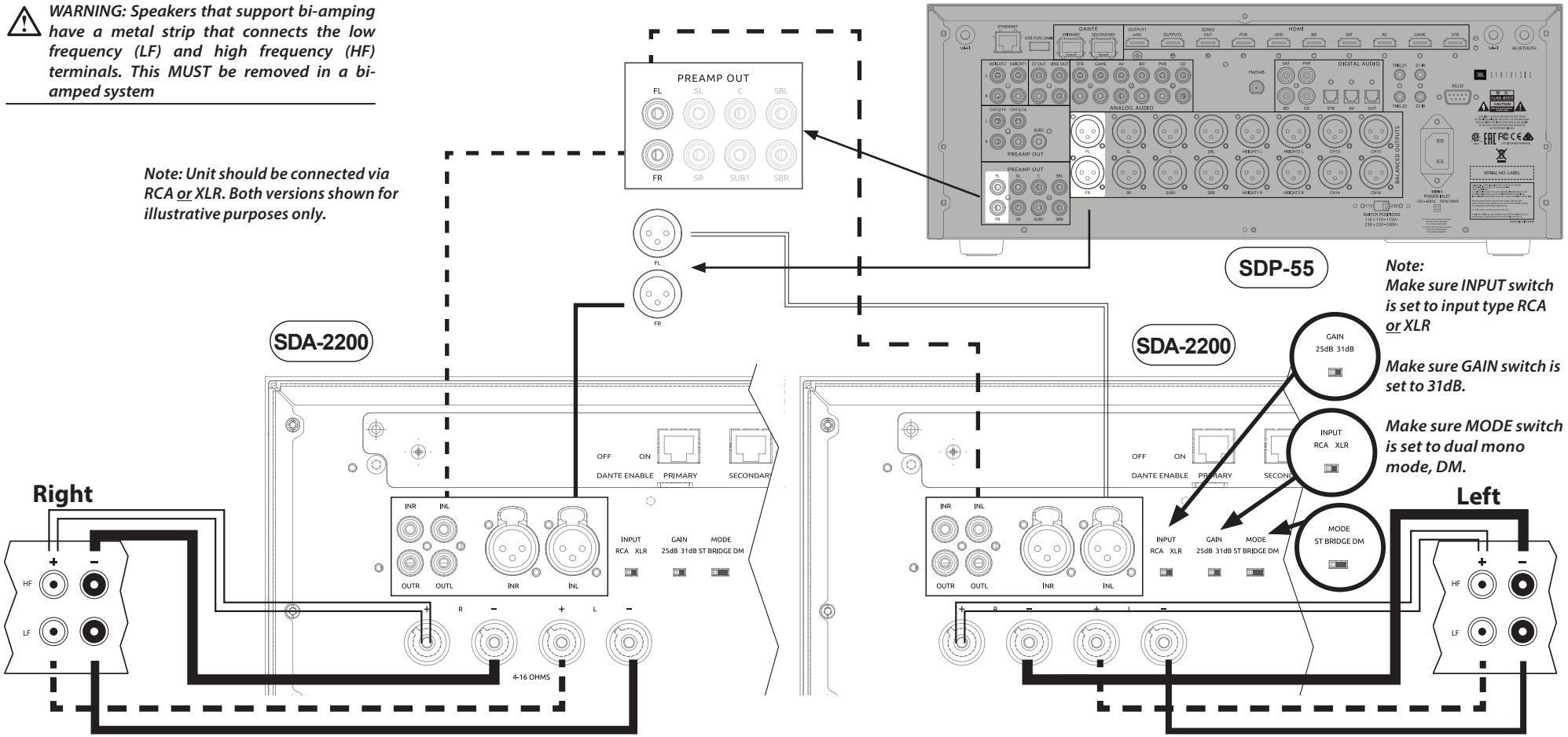
Repeat this process for the right speaker, using the same terminals on the other SDA-2200.

In this setup only one interconnect is required to each power amplifier and it should be connected to the **IN L** input. The interconnects can be either XLR (recommended for longer cable runs) or phono (RCA). Set the **INPUT** switch on both of the SDA-2200's to the appropriate setting for the cables used.

Note: The **IN R** input has no function in this arrangement.

WARNING: Speakers that support bi-amping have a metal strip that connects the low frequency (LF) and high frequency (HF) terminals. This MUST be removed in a bi-amped system

Note: Unit should be connected via RCA or XLR. Both versions shown for illustrative purposes only.



Troubleshooting

Problem	Check the following
No sound	□ The SDA-2200 / SDA-7120 power amplifier is correctly plugged in and switched on. □ Your audio/video source (e.g. pre amplifier) is correctly connected. □ The SDA-2200 / SDA-7120 is not in protection mode, as described in the next section. □ The SDA-2200 and SDA-7120 is not muted.
Sound cuts-out unexpectedly	The SDA-2200 / SDA-7120 may enter a protection mode, depending on the fault being detected. The front panel LED will indicate the fault type, according to the list below. □ FLASHING WHITE: The internal temperature of the unit reached an unsafe level. Allow the SDA-2200 / SDA-7120 to cool off. □ FLASHING RED: The SDA-2200 / SDA-7120 amplifier detected a speaker short circuit. Should this happen, please inspect all the speaker cables to make sure none of them are shorted together. This fault is very common when bare wires are being used to make speaker connections. □ FLASHING ORANGE: SDA-7120 and SDA-2200 only. The amplifier detected a DC offset. Following any of the faults described above, the amplifier will turn itself OFF and power to the speakers will be removed. To continue using the SDA-2200 / SDA-7120, the fault must be removed and the unit must be turned OFF then back ON.

Specifications

SDA-7120

Continuous power output at 0.2% THD per channel		
Seven channels driven, 4Ω / 8Ω, 1kHz	140W / 100W	
Five channels driven, 4Ω / 8Ω, 1kHz	175W / 110W	
Two channels driven, 4Ω / 8Ω, 1kHz	225W / 140W	
Harmonic distortion, 80% power, 8Ω at 1kHz	0.002%	
Inputs		
	RCA Type	**XLR Type**
Input sensitivity 100W / 8Ω	800mV RMS	1.6V RMS
Signal/Noise ratio (A-wtd) 100W / 8Ω	112dB	
Input impedance	10kΩ	
Frequency response	20 - 20kHz +/-0.05dB	
General		
Mains voltage	110–120V or 220–240V, 50–60Hz	
Maximum power consumption	1.5kW	
Low power standby consumption	0.5W	
Network standby consumption	2W	
Dimensions W x H x D (including feet, control knob and speaker terminals)	17 x 16.7 x 7in (433 x 425 x 177mm)	
Weight (net)	44.1lbs (20.0kg)	
Weight (gross)	51.8lbs (23.5kg)	

All specification values are typical unless otherwise stated. JBL Synthesis has a policy of continuous improvement for its products. This means that designs and specifications are subject to change without notice. E&OE.

SDA-2200

Continuous power output at 0.2% THD per channel				
Two channels driven, 4Ω / 8Ω, 1kHz	380W / 225W			
One channel driven, 8Ω bridged mode, 1kHz	790W			
Harmonic distortion, 80% power, 8Ω at 1kHz	0.001%			
Inputs				
	RCA Type		**XLR Type**	
	31dB	**25dB**	**31dB**	**25dB**
Input sensitivity 200W / 8Ω	1.15V RMS	2.3V RMS	2.3V RMS	4.6V RMS
Signal/Noise ratio (A-wtd) 10W / 8Ω	110dB	114dB	110dB	114dB
Input impedance	10kΩ			
Frequency response	20 - 20kHz +/-0.05dB			
General				
Mains voltage	110–120V or 220–240V, 50–60Hz			
Maximum power consumption	1.5kW			
Low power standby consumption	0.5W			
Network standby consumption	2W			
Dimensions W x H x D (including feet, control knob and speaker terminals)	17 x16.7 x 7in (433 x 425 x 177mm)			
Weight (net)	45.2lbs (20.5kg)			
Weight (gross)	52.9lbs (24kg)			

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Worldwide Guarantee

This entitles you to have the unit repaired free of charge, during the first five years after purchase, provided that it was originally purchased from a Certified JBL Synthesis dealer. The JBL Synthesis dealer is responsible for all after-sales service. The manufacturer can take no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorized adjustment and/or repair, neither can they accept responsibility for damage or loss occurring during transit to or from the person claiming under the guarantee. For a copy of the complete limited warranty please visit ***www.jblsynthesis.com***.

The Warranty Covers:

Parts and labor costs for five years from the purchase date (see ***www.jblsynthesis.com*** for additional terms and conditions). After five years you must pay for both parts and labour costs.

The warranty does not cover battery replacement at any time.

The warranty does not cover transportation costs at any time.

Claims Under Guarantee

This equipment should be packed in the original packing and returned to the dealer from whom it was purchased. It should be sent with shipping costs prepaid by a reputable carrier – **not by the post office**. No responsibility can be accepted for the unit while in transit to the dealer or distributor and customers are therefore advised to insure the unit against loss or damage while in transit.

For further details contact JBL Synthesis at ***csupport@harman.com***.

Problems?

If your JBL Synthesis dealer is unable to answer any query regarding this or any other JBL Synthesis product please contact JBL Synthesis Customer Support at the above address and we will do our best to help you.

On-line Registration

You can register your product on-line at ***www.jblsynthesis.com***.