STUDIO EVOLUTION™

EVOSOUND PRO™

SE • 1600 D

Professional Power Amplifier



OWNER'S MANUAL



AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

1. IMPORTANT SAFETY INSTRUCTIONS

Safety Symbols



The Exclamation Point within an Equilateral Triangle:
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The Lightning Flash with Arrowhead within an Equilateral Triangle:
This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's chassis that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The Lightning Flash Symbol (Without a Triangle):
Located near the output connectors, this symbol indicates the presence of "hazardous live voltage" at the amplifier outputs during operation. Any external wiring connected to these terminals must be installed by a qualified person to mitigate the risk of electric shock.

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 a 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. **Connect the power cord only to an easily accessible AC outlet located near the equipment.** As the AC mains plug serves as the primary disconnect device, ensure the outlet remains unobstructed and readily operable at all times.

15. **Refer all servicing to qualified 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 nor mally, or has been dropped.

2. PRECAUTIONS

⚠ WARNING: Electric Shock Hazard

1. **Grounded AC Outlet:** Connect the amplifier only to a properly installed and grounded AC outlet that matches the voltage rating specified on the amplifier chassis. If you are unsure whether the AC outlet is properly grounded, have it inspected by a qualified electrician.

2. **Approved Cables & powerCON®:** The amplifier utilizes a Neutrik powerCON® type locking AC power connector. Use only the supplied 3-conductor power cord or a certified replacement cord of the same type, with the appropriate voltage and current ratings, and the connector type specified by the manufacturer (such as an authentic locking powerCON® connector). Do not use uncertified power cords, incompatible connectors, or ground-lifting adapters.

3. **Power Line Inspection:** Do not operate the amplifier if the power cord, powerCON® locking connector, wall plug, or AC outlet is damaged, loose, or worn. Replacement power cords shall meet the electrical and safety specifications provided by the manufacturer and comply with applicable national standards.

4. **Protective Ground Integrity:** Ensure that the powerCON® connector is fully inserted and securely locked into the chassis before applying power. Do not remove, cut, or defeat the grounding prong on the AC mains plug or the protective earth (PE) contact on the connector. This plug must only be inserted into a matching grounding-type power outlet.

5. **Physical Cable Protection:** Ensure the power cord is protected from being walked on, pinched, or severely bent, particularly at the wall plug, intermediate connections, and the point where the powerCON® connector attaches to the amplifier chassis.

6. **Dangerous High Voltages Inside:** No user-serviceable parts inside. Do not open, modify, or at tempt to disassemble the chassis under any circumstances. Dangerous voltages may remain present inside the amplifier for a period of time after disconnection from mains power.

7. **Qualified Service Personnel Only:** Servicing, maintenance, and internal adjustments must be performed exclusively by qualified service personnel. Unauthorized opening, tampering, or improper servicing creates the risk of electric shock or injury and will invalidate the amplifier warranty.

8. **Mandatory Disconnection:** To prevent electric shock or damage, completely disconnect the power cord plug from the AC outlet before servicing, before exterior cleaning, or when making audio input/output wiring adjustments.

9. **Moisture and Liquid Exposure Prohibited:** Do not operate the amplifier if it has been exposed to rain, high humidity, condensation, or any form of liquid (including dripping, splashing, or pooling water). Do not use this amplifier near water or if internal moisture ingress is suspected.

10. **Foreign Object Ingress:** Never push objects of any kind into this product through ventilation slots or chassis openings. Inserting metal items (such as paper clips, wires, or tools) can touch hazardous internal voltage points inside the amplifier, causing short circuits, electric shock, or fire.

11. **Post-Impact & Structural Damage:** If the amplifier has been dropped, subjected to physical impact, or sustained structural damage to the chassis, immediately disconnect the AC mains plug from the outlet. Do not reconnect or attempt to power on the amplifier until it has been thoroughly inspected and cleared for safe operation by qualified service personnel.

⚠ WARNING: Fire, Overheating, and Operating Environment Hazards

12. **Component Placement & Fire Hazard:** Never stack unanchored equipment directly on top of or underneath the amplifier outside of a secure rack, as heat accumulation between units presents a severe risk of fire.

13. **Liquid and Beverage Restrictions:** Under no circumstances shall objects filled withliquids—including alcoholic or non-alcoholic beverages, cups, glasses, or vases—be placed on top of or near the amplifier chassis. Liquid ingress can cause immediate internal short circuits and fire hazards.

14. **Acclimatization and Condensation Warning:** If the amplifier has been stored or transported in cold or freezing temperatures, moisture condensation may occur inside the amplifier when it is brought into a warmer environment. Operating the amplifier with internal condensation presents a severe risk of electric shock, short circuits, and fire hazards. Remove the amplifier from its packaging and allow it to remain unplugged in a well-ventilated area at room temperature for at least four (4) hours to allow any condensation to evaporate before connecting it to AC power.

15. **Open Flames and Combustibles:** Keep the amplifier away from open flames, candles, and highly flammable materials. Avoid operating the amplifier on combustible surfaces such as carpets or fabrics.

⚠ CAUTION: Ventilation, Thermal Safety

16. **Forced-Air Circulation:** This amplifier utilizes forced-air cooling with a front-to-back airflow direction. Ensure both the front intake and rear exhaust pathways remain completely unobstructed. Operate the unit strictly within its rated ambient temperature range of 0 °C to 40 °C (32 °F to 104 °F). Improper ventilation may result in overheating, malfunction, or damage not covered under warranty.

17. **Rack & Flight Case Installation Clearance:** When mounting the amplifier in an EIA standard 19-inch equipment rack, portable flight case, or custom karaoke enclosure:
    • **Spacing:** Leave at least 1U of empty space above or below the amplifier when installed alongside high-heat-generating equipment. Leave these spaces open or use perforated ventilation panels.
    • **Covers:** Always remove the front and rear covers or doors of the rack or flight case during operation to ensure adequate airflow and prevent overheating.
    • **Rear Clearance:** Position the rear of the rack enclosure at least 10 cm (4 in)away from walls or solid surfaces.

18. **Surface & Enclosed Non-Rack Spaces:** If operated outside of a rack on a flat surface (such as a table, desk, or shelf), maintain a minimum clear space of 10 cm (4 in) on all sides—including above, behind, and beside the unit. Do not install the amplifier in non-ventilated domestic furniture, sealed cabinets, or built-in wall cavities without active forced-air extraction.

⚠ WARNING: Electric Shock Hazard — Loudspeaker Connections

19. **Power Disconnection Before Wiring:** Always disconnect the AC mains plug from the AC outlet before connecting, disconnecting, or handling any speaker wiring. Hazardous output voltages are present on exposed wire ends during operation.

20. **Loudspeaker Cable Installation Limits:** Standard loudspeaker cables offered or sold by the manufacturer are intended only for open or surface-mounted installation and are not approved for concealed in-wall or in-ceiling installation. When installing loudspeaker cables inside walls, ceilings, or other concealed spaces, use only cables specifically rated and certified for the applicable installation method and in compliance with all applicable local electrical, building, and fire-safety codes. The manufacturer assumes no responsibility for fire, property damage, personal injury, or other damage resulting from the use of loudspeaker cables that are not properly rated, certified, or installed for the applicable installation method.

21. **Bare Wire and Short-Circuit Safety:** When connecting SP8PRO loudspeakers via bare wire ends, ensure the wires are cleanly stripped, tightly twisted, and fully inserted into the terminals with no stray strands exposed. Stray strands touching adjacent terminals, the chassis, or other equipment present a severe risk of electric shock, short circuits, and fire.

NOTICE: Impedance and Load Restrictions

Use only the specified loudspeaker systems or compatible 8 Ω loudspeaker loads. Using incompatible loads may result in amplifier damage. Damage caused by improper loudspeaker connections is not covered by the warranty.

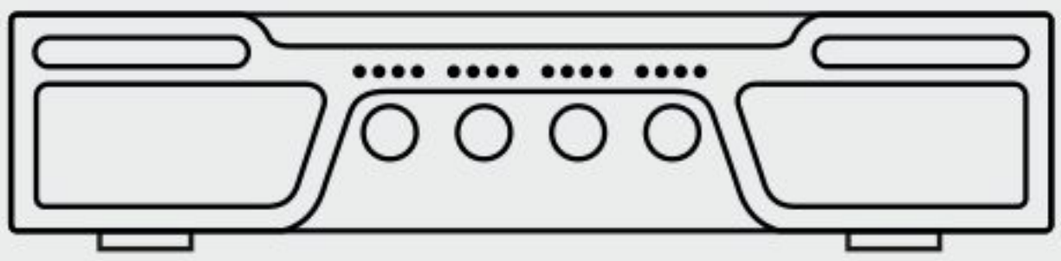
⚠ WARNING: High Sound Pressure Levels

22. **Irreversible Hearing Loss Hazard:** This high-power Class D professional amplifier is capable of generating high sound pressure levels (SPL) that may cause permanent, irreversible hearing damage or total hearing loss in performers, operators, and venue patrons. Avoid prolonged exposure to sound levels exceeding the thresholds established by regional occupational health and safety regulations (such as OSHA requirements in the United States, Directive 2003/10/EC in the EU, or applicable local health and safety standards). Always turn down all volume controls before powering on the system.

3. INTRODUCTION

Welcome to the **EvoSound PRO SE1600D**User Manual. This document contains all the necessary technical information to install, configure, and operate your professional four-channel Class D power amplifier. This manual is designed for professional sound installation technicians and end users. It guides you through setting up the amplifier as a standalone unit or as part of a complete sound reinforcement system with **EvoSound PRO SP8PRO** loudspeakers and the **EvoSound PRO SUB12PRO** subwoofer.

4. PACKAGE CONTENTS



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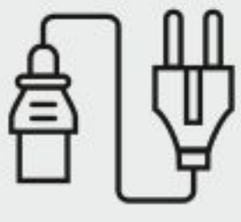

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4



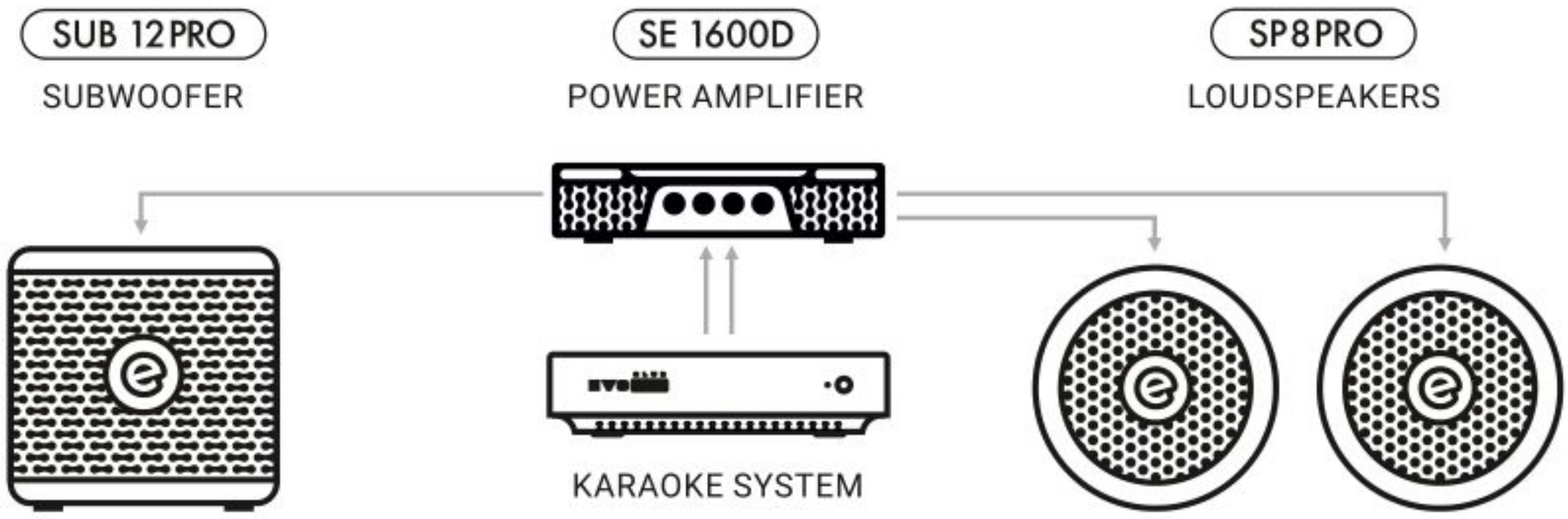
5

Item	*Qty*
1. SE1600D amplifier	×1
2. Rack mount ears (fitted)	×2
3. AC Power Cord	×1
4. User Manual	×1
5. Spare fuse	×1

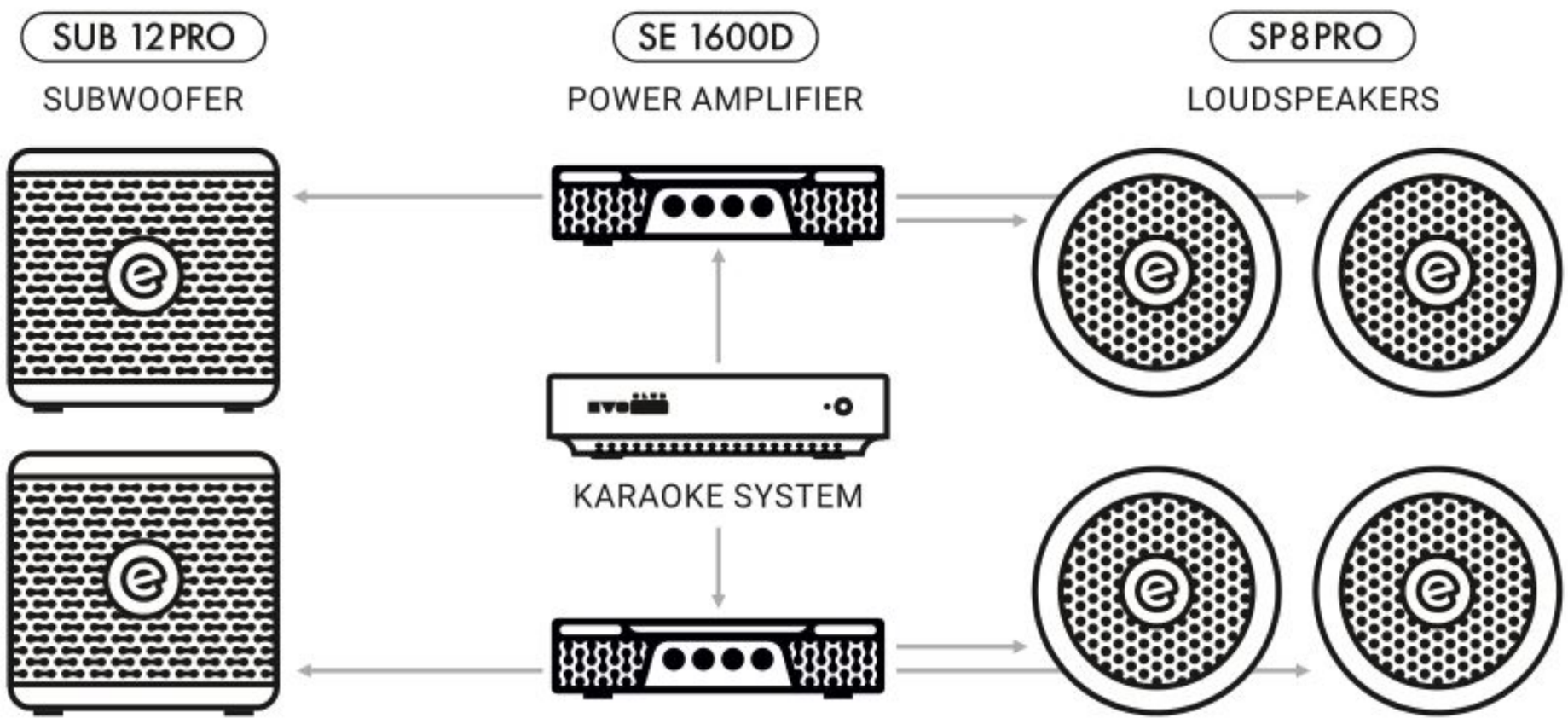
5. OVERVIEW

The EvoSound SE1600D is a professional four-channel Class D power amplifier designed for use with EvoSound SP8PRO loudspeakers and the EvoSound SUB12PRO subwoofer. It is intended for professional sound reinforcement applications and can be used either as a standalone amplifier or together with a second SE1600D amplifier to expand the system for larger installations.

The basic setup consists of a single SE1600D amplifier operating in STEREO input mode and driving two SP8PRO loudspeakers and one SUB12PRO subwoofer in a 2.1 system configuration. This setup is recommended primarily for karaoke rooms (KTV) with a floor area of up to 60 m² (see Section 8.1 and 8.3.2).

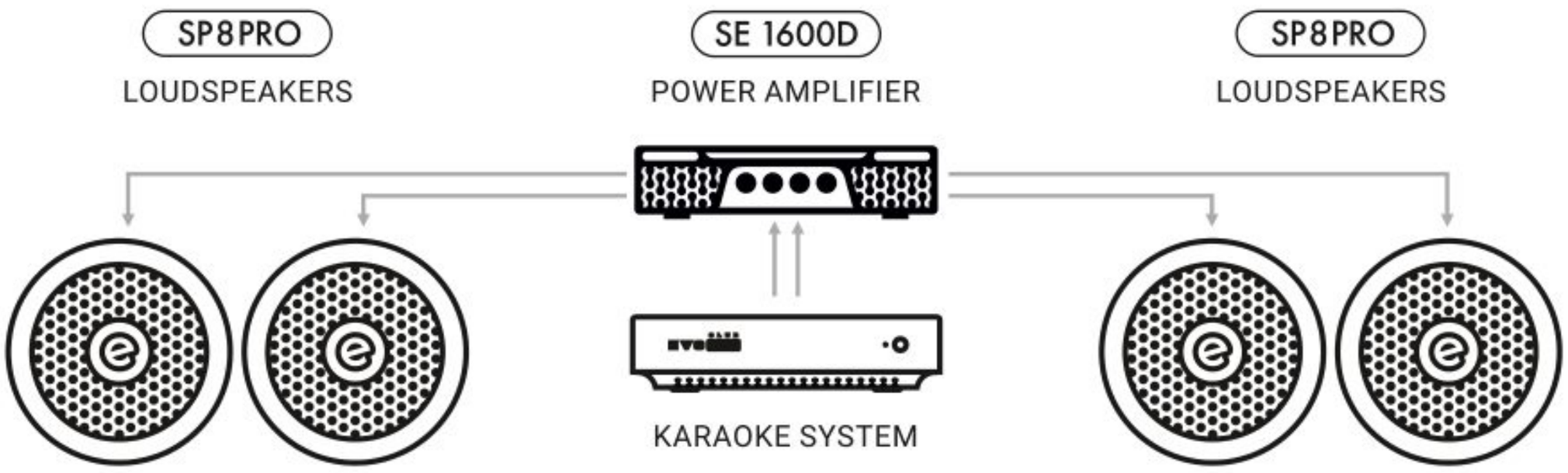


For larger installations, this basic setup can be expanded by adding a second SE1600D amplifier, with both amplifiers operating in PARALLEL input mode, together with two additional SP8PRO loudspeakers and an additional SUB12PRO subwoofer. This configuration is suitable for venues with a floor area of up to 100 m² (see Section 8.1 and 8.3.1).

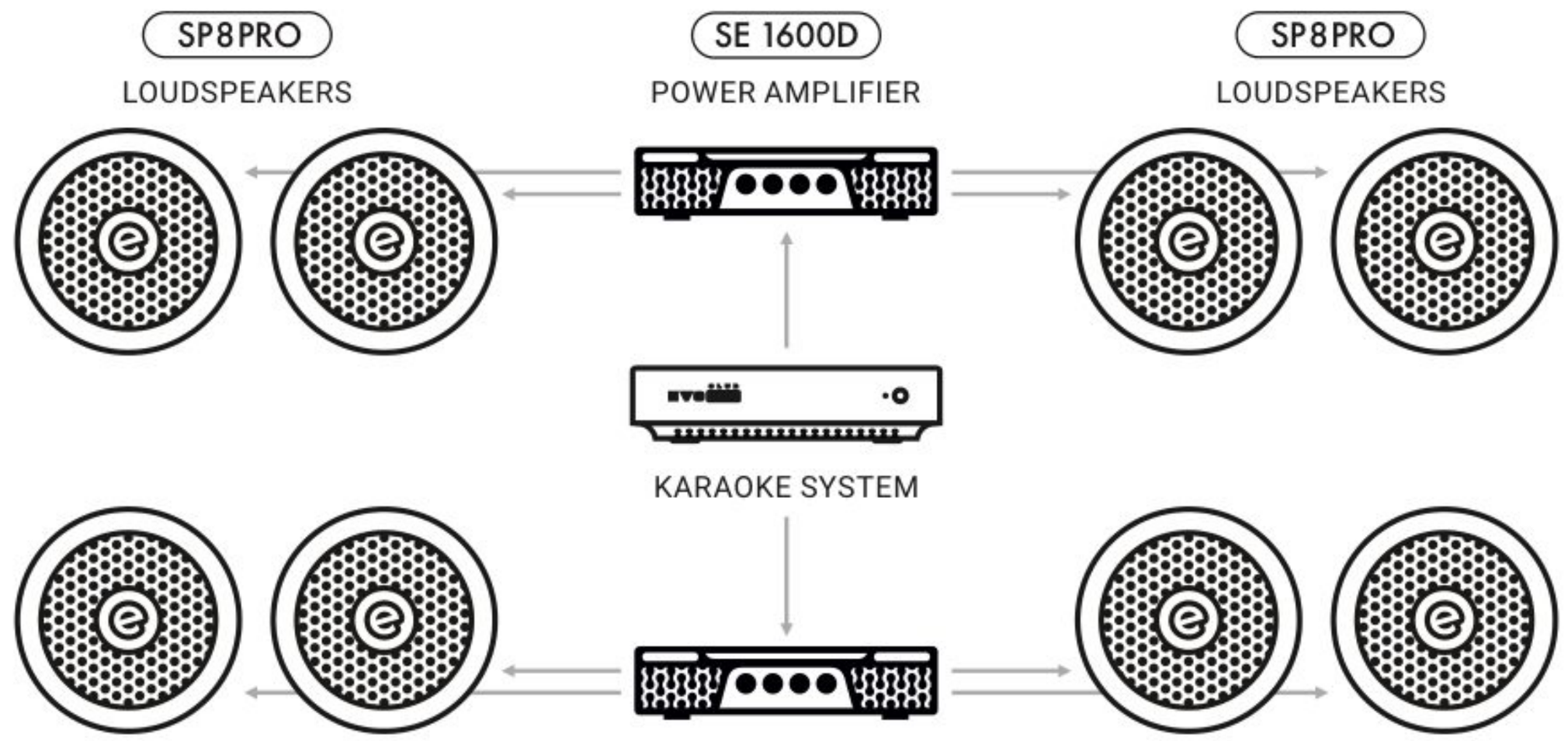


EvoSound PRO equipment is also well suited for background music applications in cafés, bars, restaurants and lounges. In most installations, the SUB12PRO subwoofer is not required, as the SP8PRO loudspeakers operating in FULL RANGE mode provide sufficient low-frequency response for high-quality background music reproduction.

The basic background music setup consists of a single SE1600D amplifier operating in STEREO inpute mode and driving four SP8PRO loudspeakers in a 4.0 system configuration. This setup is recommended for venues with a floor area of up to 100 m² (see Section 8.2 and 8.3.2).



For larger installations, this basic background music setup can be expanded by adding a second SE1600D amplifier, with both amplifiers operating in PARALLEL input mode, to drive four additional SP8PRO loudspeakers. This configuration is suitable for venues with a floor area of up to 200 m² (see Section 8.2 and 8.3.1).



6. FEATURES

6.1 Construction

The amplifier features a rugged steel chassis protected by a durable powder coated finish and an anodized aluminum front panel offering excellent corrosion resistance. The unit is designed for installation in a standard 19-inch equipment rack and occupies 2U of rack space.

6.2 Power Supply

The amplifier is equipped with a high-efficiency switch-mode power supply shared by all four amplifier channels.

6.3 Cooling System

The amplifier features a forced-air cooling system with two electronically controlled, variable-speed fans that efficiently cool both the amplifier channels and the power supply. It utilizes a front-to-rear airflow design.

6.4 Amplifier Section

The amplifier features an advanced Class D amplifier architecture, delivering exceptional audio performance with minimal heat dissipation and high operating efficiency.

6.5 Inputs

The amplifier provides two balanced XLR/TRS combo inputs and two unbalanced RCA inputs. Balanced connections are recommended whenever possible, especially for long cable runs, due to their superior immunity to electromagnetic interference.

NOTICE: Equipment Damage Hazard

Never connect both balanced (XLR/TRS) and unbalanced (RCA) sources to the same channel simultaneously. Doing so may cause signal degradation or damage the amplifier's internal circuitry. Use either a balanced or an unbalanced connection per channel, but never both.

6.6 SATELLITE HPF Switch (High-Pass Filter)

Enables a 100 Hz high-pass filter for the SP8PRO loudspeakers, reducing low-frequency content below 100 Hz. This increases available headroom and helps protect the loudspeakers from excessive low-frequency energy. Disable the filter when full-range operation is required.

6.7 SUB PHASE Switch

Selects the operating phase setting of the SUB12PRO subwoofer. Available settings are **0°** and **180°**, allowing the subwoofer to be acoustically aligned with the SP8PRO loudspeakers for different installation layouts.

6.8 INPUT MODE Switch

Selects the amplifier input routing configuration (see Section 8.3).

- In **PARALLEL** position: The input signal applied to the left balanced input (XLR/TRS-L) or the left unbalanced input (RCA-L) is internally routed to all four output channels (Ch1– CH4). Input signals on the right inputs are ignored.
- In **STEREO** position: Output channels CH1 and CH3 reproduce the signal applied to the left inputs (XLR/TRS-L or RCA-L), while output channels CH2 and CH4 reproduce the signal applied to the right inputs (XLR/TRS-R or RCA-R).

6.9 Ch3 & CH4 OUTPUT MODE Switch

Selects the system configuration (2.1 or 4.0).

- In the **CH3 & CH4** position: Output channels CH3 and CH4 operate independently as discrete, full-range channels for a 4.0 system configuration (see Section 8.2).
- In the **CH4 BRIDGE SUB** position: Output channels CH3 and CH4 are configured into bridged mode to drive the SUB12PRO subwoofer. The subwoofer must be connected exclusively to the CH4 speakON® output, which handles the combined bridged power. In this mode, the internal crossover is activated, and the amplifier operates in a 2.1 system configuration (see Section 8.1).

6.10 AC Power Cord

The detachable AC power cord simplifies transportation and installation. A lockingpowerCON® connector provides a secure and reliable connection to the AC mains supply.

⚠ WARNING: Electrical Shock and Fire Hazard

Use only the supplied AC power cord or a replacement cord of the same type approved for use in your country.

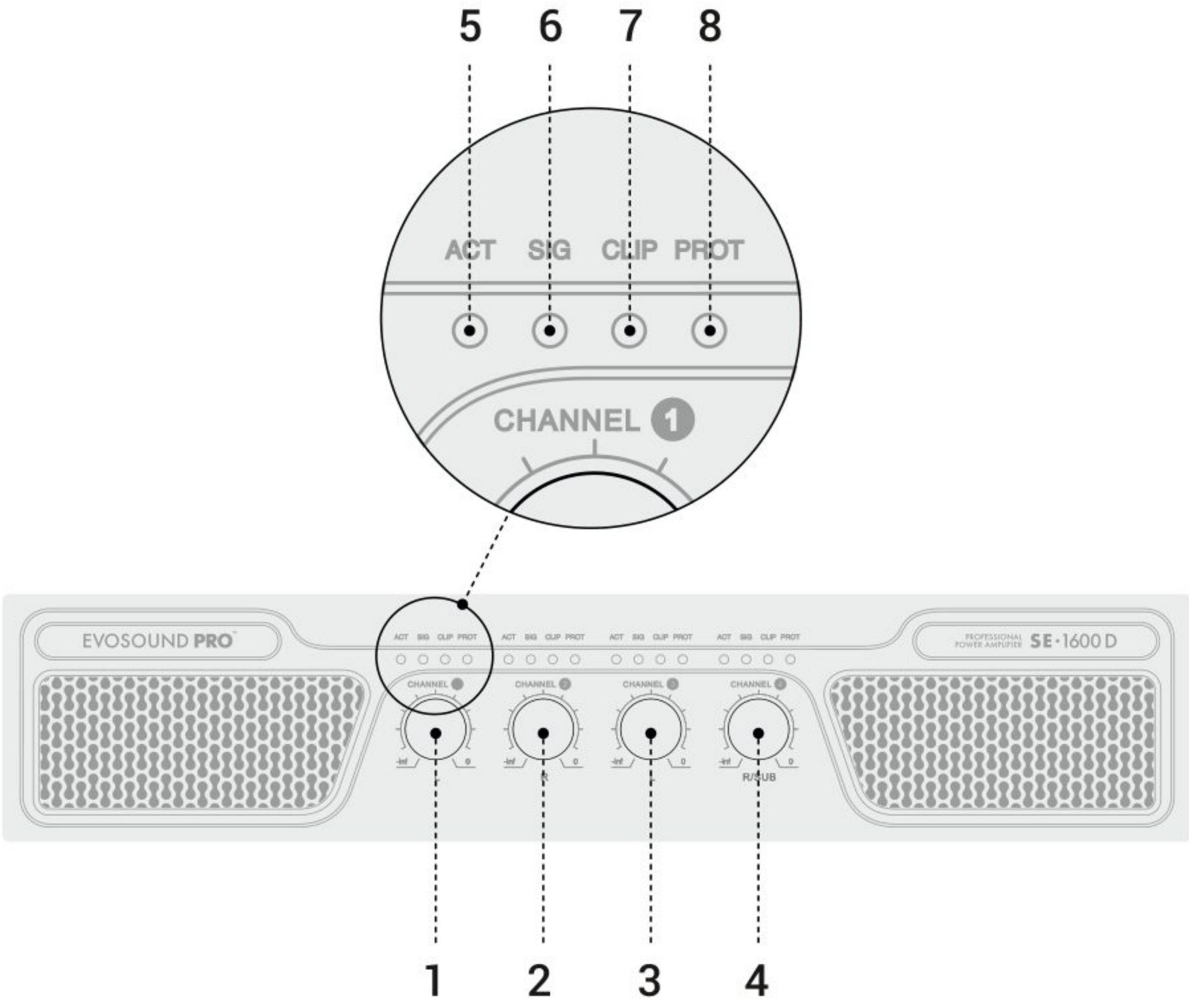
6.11 AC voltage selector

Selects the input voltage setting (**115 V** or **230 V**) to match the local AC mains voltage .

⚠ WARNING: Electrical Shock and Fire Hazard

Disconnect the AC power cord from the mains supply before changing the voltage selector setting. Verify that the voltage selector matches your local mains voltage before reinserting the power cord.

6.12 Front Panel



1–4. **LEVEL** – Controls for channels CH1–CH4.

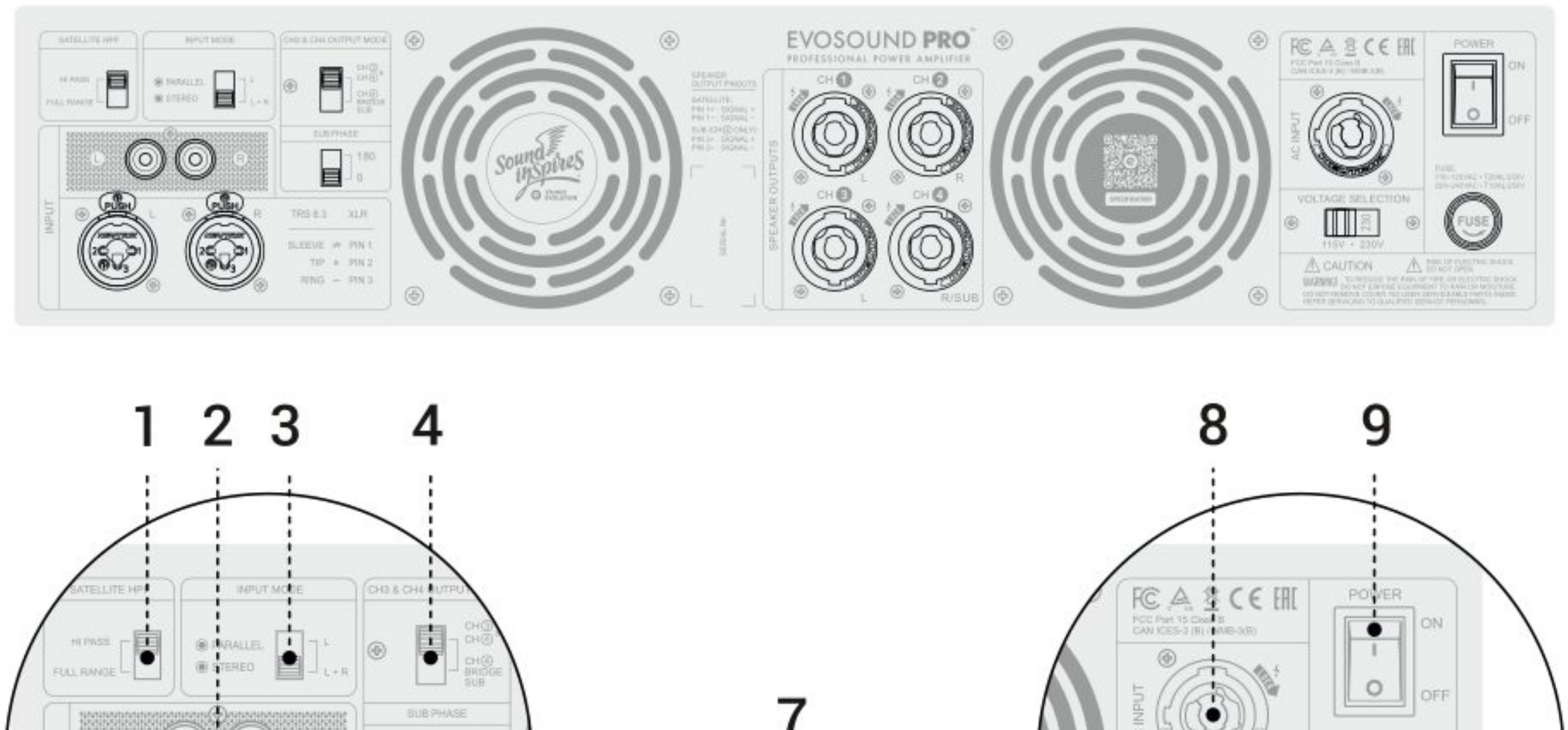
5. **ACT** – Channel active indicator. Illuminates to indicate that the channel is enabled.

6. **SIG** – Input signal indicator. Flashes when an input signal is present.

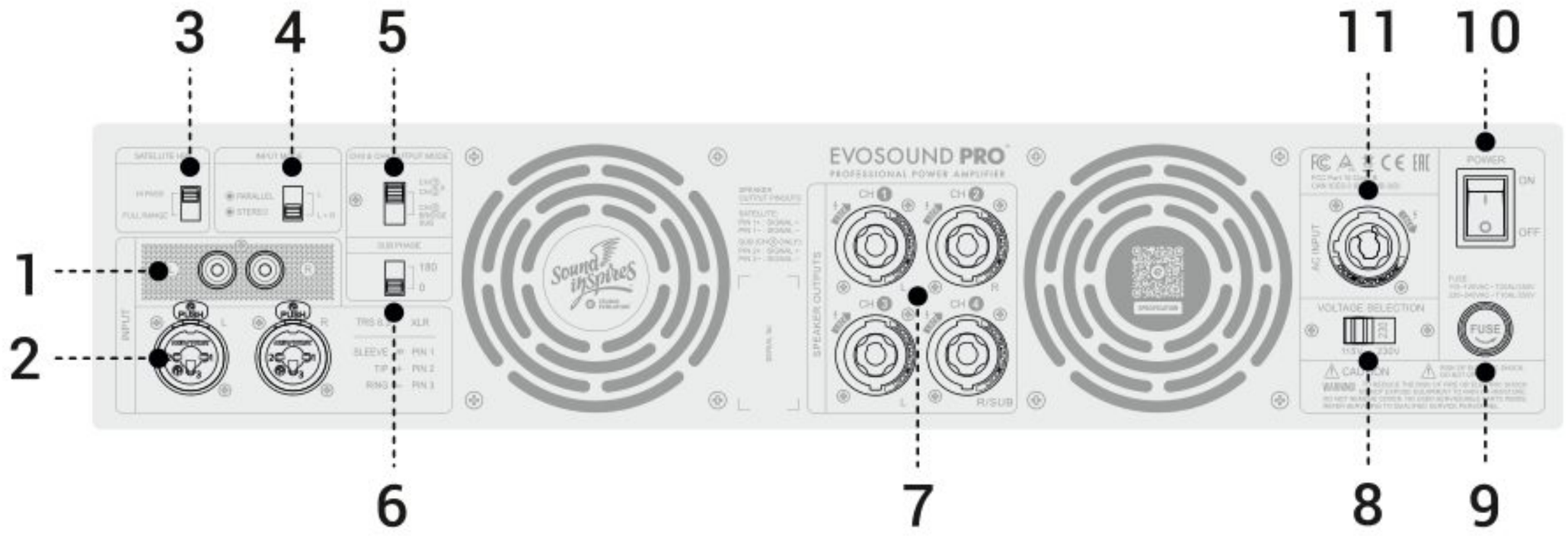
7. **CLIP** – Clipping indicator. Flashes when the output signal approaches clipping.

8. **PROT** – Protection indicator. Flashes when the amplifier's protection circuitry is activated due to fault conditions.

6.13 Rear Panel



1. SATELLITE HPF switch (**FULL RANGE / HI PASS**)
2. Unbalanced line inputs (RCA connectors)
3. INPUT MODE switch (**STEREO / PARALLEL**)
4. CH3 & CH4 OUTPUT MODE switch (**CH3 & CH4 / CH4 BRIDGE SUB**)
5. Balanced line inputs (XLR/TRS Combo connectors)
6. SUB PHASE switch (**0° / 180°**)
7. Speaker outputs (speakON® NL4)
8. AC mains inlet (powerCON®)
9. **POWER** switch
10. AC Voltage selector
11. AC Fuse holder



1. Balanced line inputs (XLR/TRS combo connectors)
2. Unbalanced line inputs (RCAconnectors)
3. SATELLITE HPF switch (**FULL RANGE / HI PASS**)
4. INPUT MODE switch (**STEREO / PARALLEL**)
5. CH3 & CH4 OUTPUT MODE switch (**CH 3& CH4 / CH4 BRIDGE SUB**)
6. SUB PHASE switch (**0° / 180°**)
7. Speaker outputs (speakON® NI4)
8. AC voltage selector
9. AC fuse holder
10. **POWER** switch
11. AC mains inlet (powerCON®)

NOTE: Replace the fuse only with a fuse of the same type and rating as marked on the chassis.

7. CONNECTION CABLE REQUIREMENTS

7.1 Input Signal Cables

Use high-quality shielded audio cables to connect signal sources to the amplifier. Balanced connections are recommended whenever possible, especially for long cable runs, as they provide superior immunity to electromagnetic interference. The length of an unbalanced (RCA) cable should not exceed 3 m (10 ft). Properly shielded cables help minimize interference from AC mains and radio-frequency sources.
To minimize hum and induced noise, avoid routing input signal cables in close proximity to AC power cords, lighting cables, or power transformers.

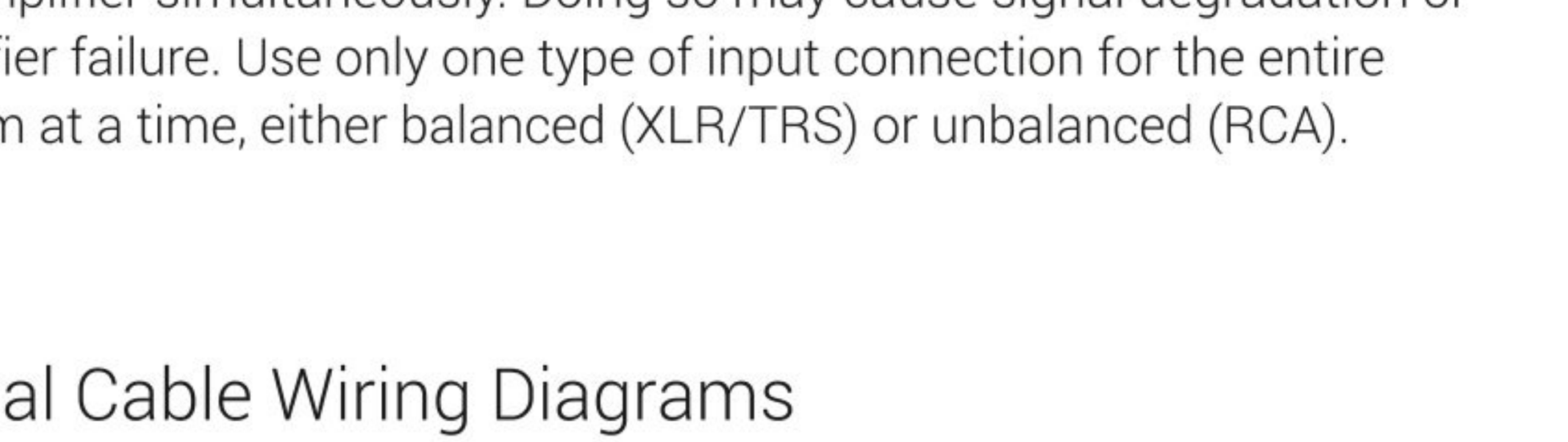
NOTICE: Equipment Damage Hazard

Never connect balanced (XLR/TRS) and unbalanced (RCA) input cables to the amplifier simultaneously. Doing so may cause signal degradation or amplifier failure. Use only one type of input connection for the entire system at a time, either balanced (XLR/TRS) or unbalanced (RCA).

Signal Cable Wiring Diagrams

1-3 – Balanced cables
4-5 – unbalanced cables

1



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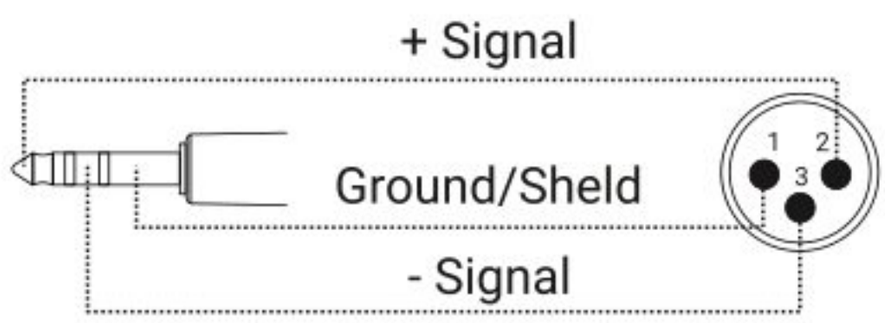
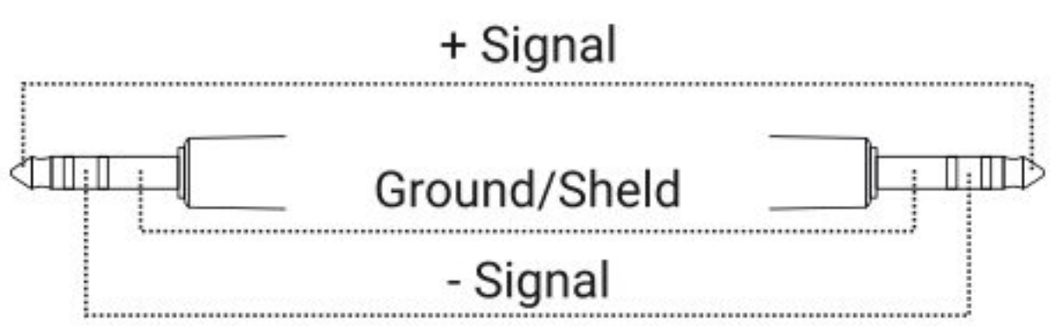

+ Signal
6.3mm TRS
Ground/Sheld
1
2
3
XLR Male
- Signal

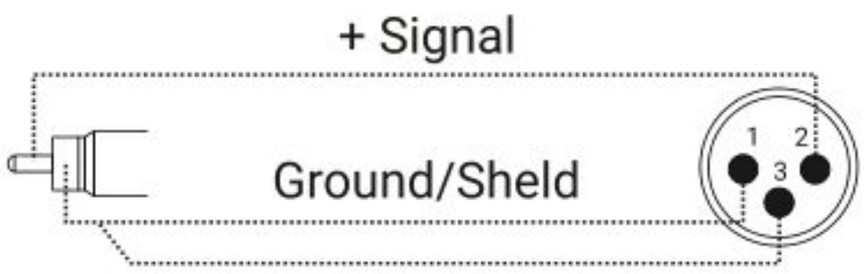
3




+ Signal
6.3mm TRS
Ground/Sheld
6.3mm TRS
- Signal

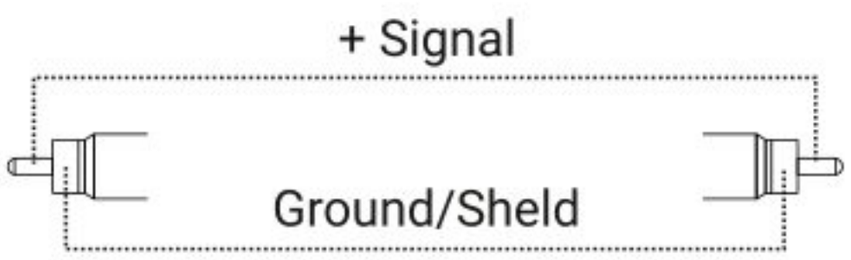
4




+ Signal
RCA
Ground/Sheld
1
2
3
XLR Male

5




+ Signal
RCA
Ground/Sheld
RCA

7.2 Loudspeaker Cables

We recommend using high-quality professional loudspeaker cables. For connecting SP8PRO loudspeakers, use cables with a conductor cross-sectional area of 2 × 2.0 mm² (14 AWG). For connecting the SUB12PRO subwoofer, use cables with a conductor cross-sectional area of 2 × 4.0 mm² (approx. 11 AWG).

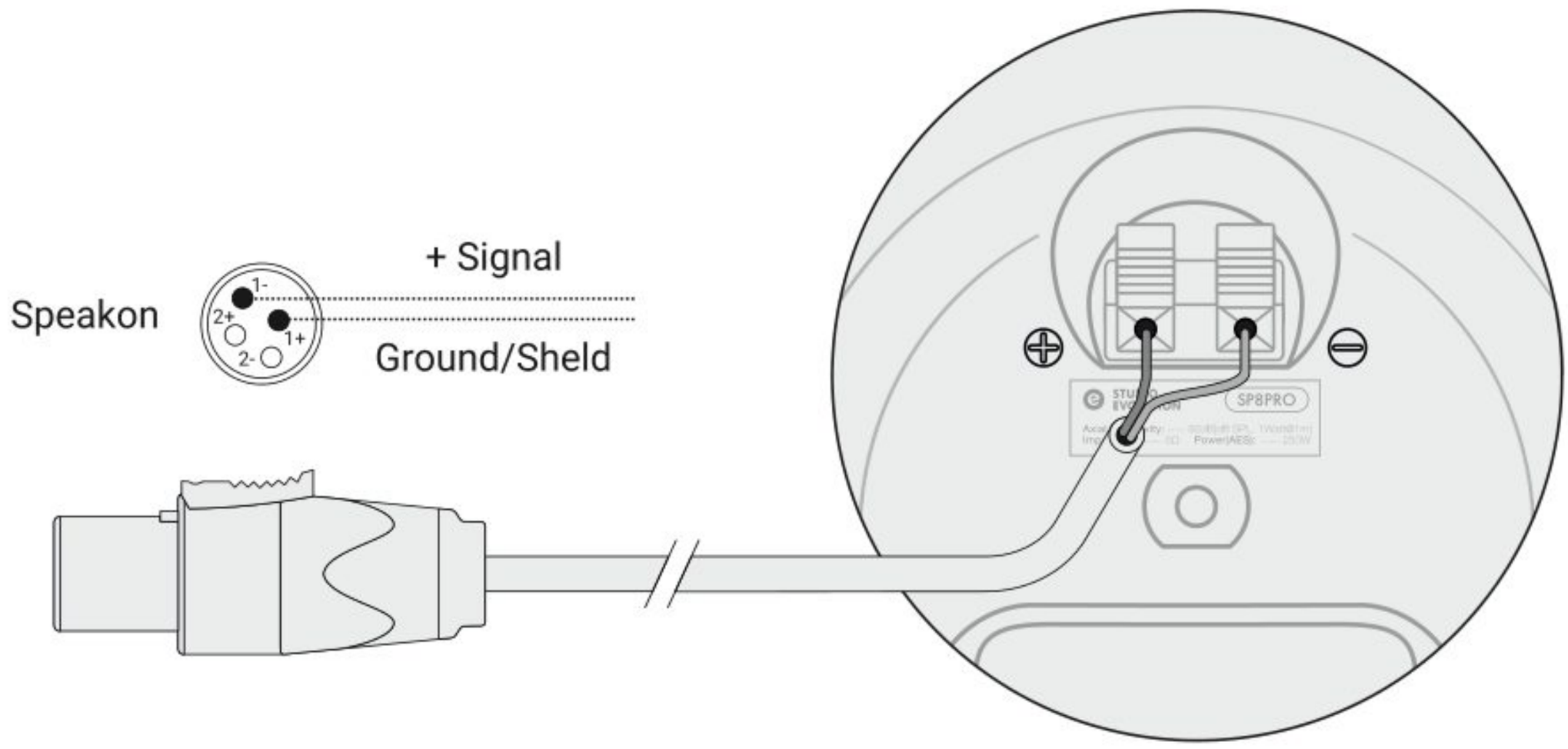
⚠ WARNING: Fire Hazard

Never use microphone, instrument, or other shielded signal cables to connect loudspeakers. Shielded signal cables are not designed for high-current applications and can overheat rapidly under load, presenting a severe fire risk. Always use dedicated, unshielded loudspeaker cables with the conductor cross-sectional area recommended in this section.

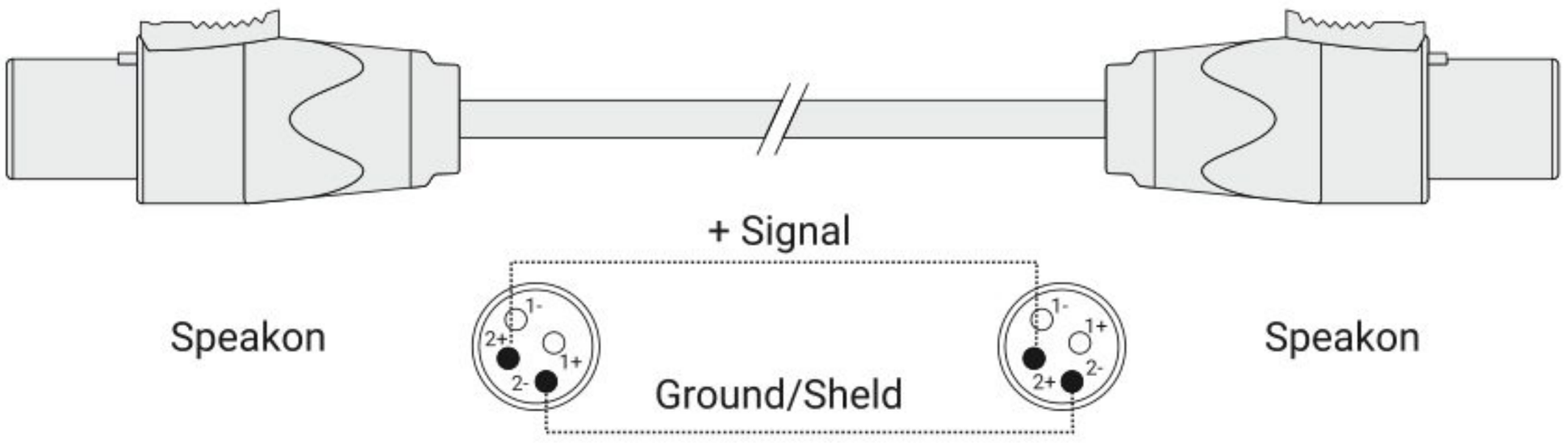
Loudspeaker Connector Pin Assignments

The SE1600D amplifier uses different connector pin assignments for the SP8PRO loudspeakers and the SUB12PRO subwoofer. Ensure that all loudspeaker cables are wired according to the pin assignments shown below to prevent short circuits or amplifier failure:

1. **For SP8PRO loudspeakers:** Use pins 1+ and 1− on the NI4 connector.



2. **For the SUB12PRO subwoofer:** Use pins 2+ and 2– on the NL4 connectors at both ends of the cable. Note that the subwoofer cable must be connected exclusively to the CH4 output on the amplifier's rear panel.



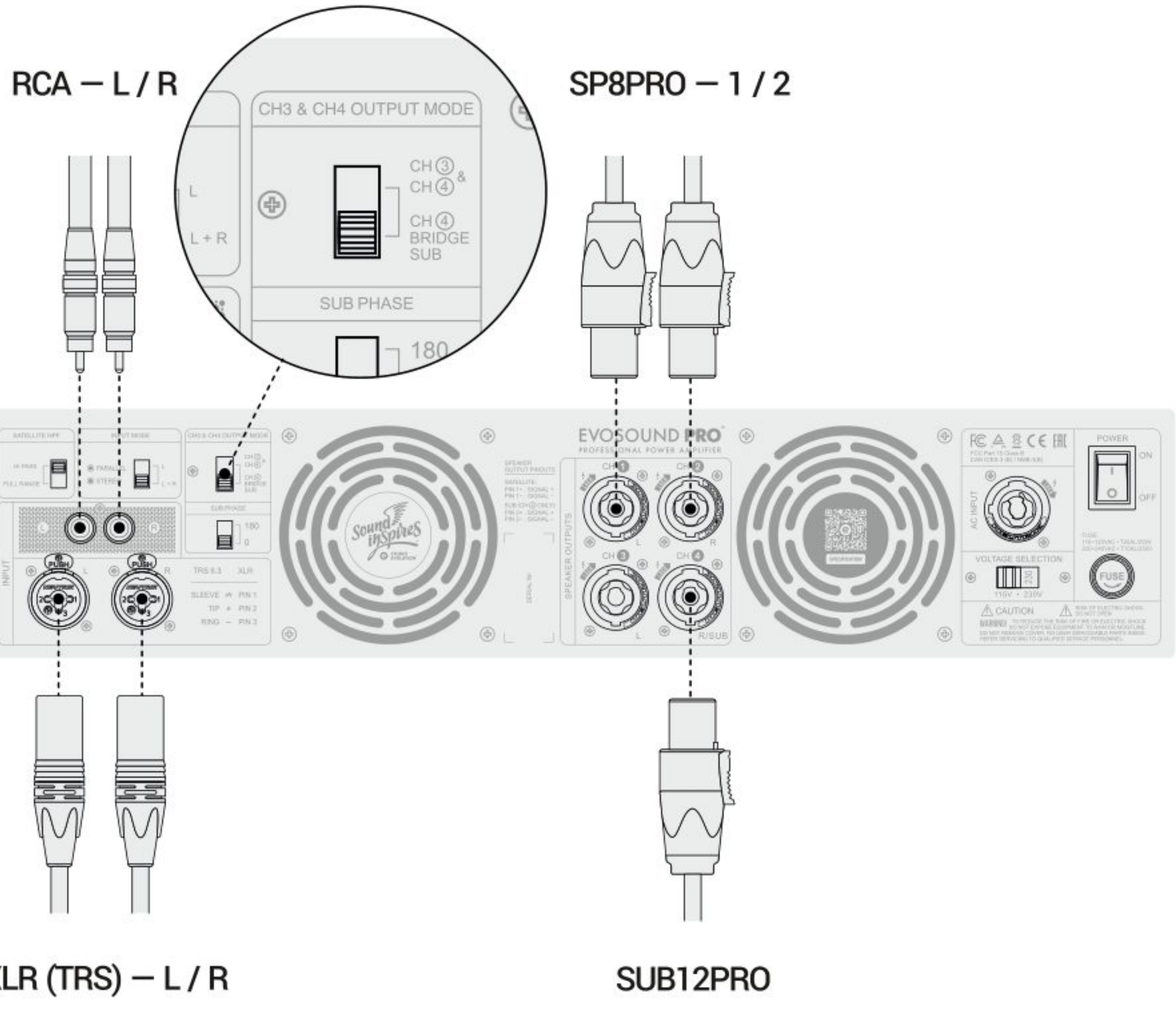
8. AMPLIFIER OPERATING MODES

NOTICE: Equipment Damage Hazard

Always turn off the amplifier power switch and disconnect the AC power cord before changing any rear panel switch settings or connecting/disconnecting input and loudspeaker cables.

8.1 Three-Channel (2.1) System Configuration

1. Connect the audio source to the balanced (XLR/TRS) or unbalanced (RCA) inputs of the amplifier. Use only one type of input connection for the entire system at a time, either balanced (XLR/TRS) or unbalanced (RCA).
2. Connect the SP8PRO loudspeakers to amplifier outputs **CH1 (L)** and **CH2 (R)**.
3. Connect the SUB12PRO subwoofer to amplifier output **CH4 (R/SUB)**.
4. Set the Ch3 & CH4 OUTPUT MODE switch to the lower position **(Ch4 BRIDGE SUB)**.

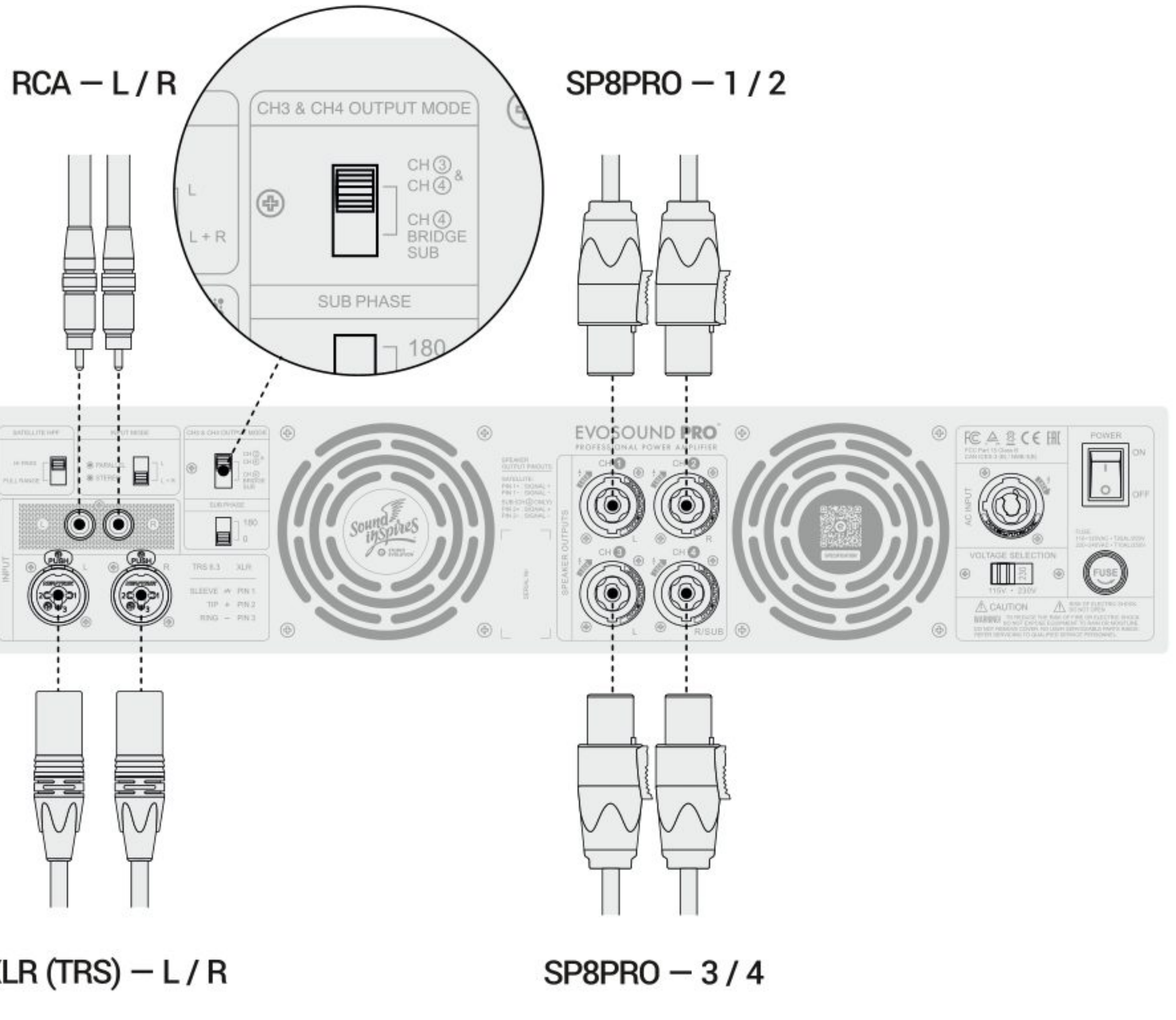


8.2 Four-Channel (4.0) System Configuration

1. Connect the audio source to the balanced (XLR/TRS) or unbalanced (RCA) inputs of the amplifier. Use only one type of input connection for the entire system at a time, either balanced (XLR/TRS) or unbalanced (RCA).

2. Connect the four SP8PRO loudspeakers to amplifier outputs **CH1 (L), CH2®, CH3 (L)**, and **CH4 (R/SUB)**.

3. Set the CH3 & CH4 OUTPUT MODE switch to the upper position **(CH3 & CH4)**.



8.3 Use of PARALLEL and STEREO Input Modes

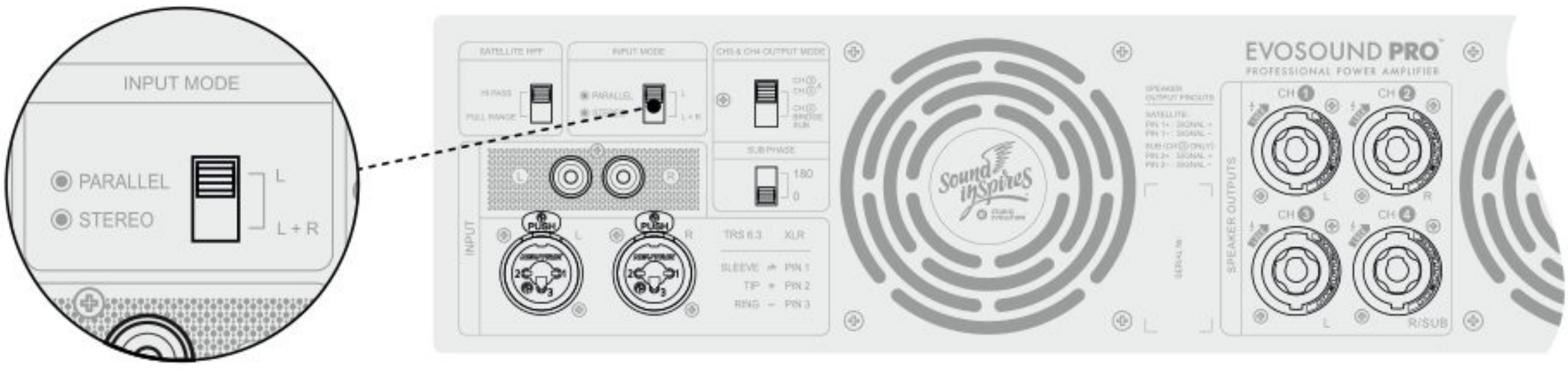
Both 2.1 and 4.0 system configurations can operate using either PARALLEL or STEREO input modes, depending on the venue's acoustic requirements.

8.3.1 PARALLEL Input Mode

This mode uses two SE1600D amplifiers: one amplifier for the left channel and the other for the right channel of the audio source. To configure two amplifiers in PARALLEL mode, perform the following steps in sequence:

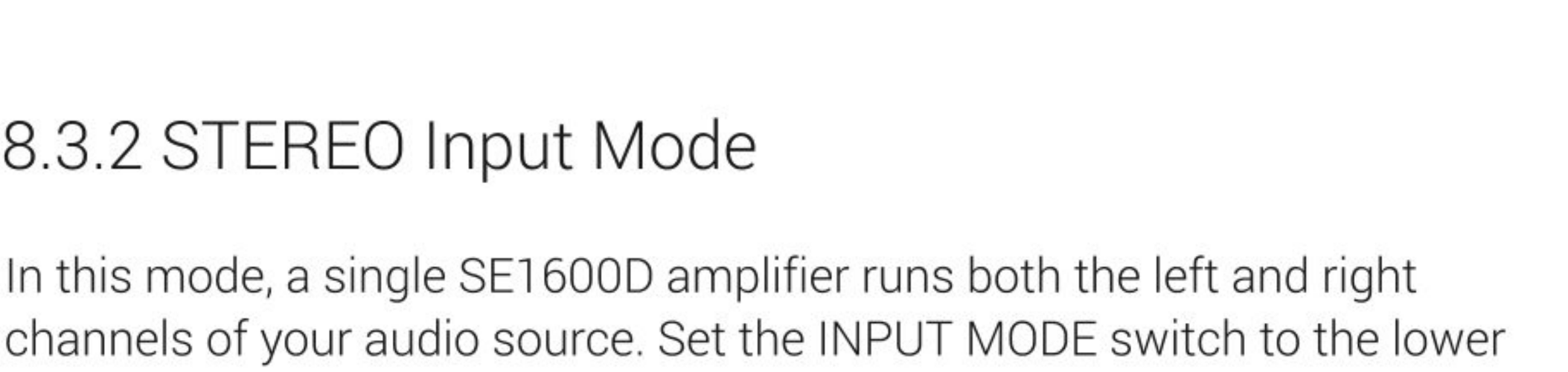
1. Set the INPUT MODE switch on both amplifiers to the upper (PARALLEL) position.
2. Connect the left channel output of the audio source to the left XLR/TRS (L) or RCA (L) input of the first amplifier.
3. Connect the right channel output of the audio source to the left XLR/TRS (L) or RCA (L) input of the second amplifier.

NOTE: In PARALLEL mode, the input signal applied to the left XLR/TRS (L) or RCA (L) input is internally split and routed to all four amplifier channels. The right XLR/TRS (R) and RCA® inputs on both amplifiers are disabled and must not be used in this configuration.



8.3.2 STEREO Input Mode

In this mode, a single SE1600D amplifier runs both the left and right channels of your audio source. Set the INPUT MODE switch to the lower (STEREO) position when a true stereo sound stage is required using a standalone amplifier configuration.



9. POWER-UP AND POWER-DOWN SEQUENCE

NOTICE: Equipment Damage Hazard

Always follow the correct power-up and power-down sequences. Switching on signal processing equipment while the amplifier is active can cause severe voltage transients and loudspeaker pops, which may damage the SP8PRO loudspeakers and the SUB12PRO subwoofer.

9.1 Power-Up Sequence

1. Turn on all signal sources (media players, karaoke systems, etc.).
2. Turn on mixers, audio processors, and other signal-processing equipment.
3. Turn on the power amplifiers last.

9.2 Power-Down Sequence

1. Turn off the power amplifiers first.
2. Turn off mixers, audio processors, and other signal-processing equipment.
3. Turn off all signal sources last.

10. TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Amplifier Topology	Class D (Infineon Technologies®)
Number of Channels	4
Input Connectors	• Balanced: 2 x XLR/TRS combo • Unbalanced: 2 x RCA
Speaker Connectors	4 x speakON® NL4MP
Controls & Switches	LEVEL (CH1 – CH4), INPUT MODE, SATELLITE HPF, CH3 & CH4 OUT-PUT MODE, SUB PHASE, POWER
Output Power (RMS)	• 4 × 400 W @ 8 Ω (Ch1 – CH4, SP8PRO) • 800 W @ 8 Ω (Ch3 + CH4 bridged, SUB12PRO)
Maximum Total Peak Output Power	3000 W (all channels driven)
Frequency Response	• 20 Hz – 22 kHz (±2 dB) for Ch1 – CH4 (SP8PRO) • 20 Hz – 150 Hz (±2 dB) for CH3 + CH4 bridged (SUB12PRO)
Input Sensitivity	0.775 V (0 dBu)
Total Harmonic Distortion (THD)	0.02% (20 Hz – 20 kHz, rated power @ 8 Ω)
Input Impedance	• Balanced: 21 kΩ • Unbalanced: 10 kΩ
Damping Factor	≥ 300 (@ 8 Ω, 20 Hz – 1 kHz)
Crossover Frequency	100 Hz
High-Pass Filter (HPF)	100 Hz
Signal-to Noise Ratio (S/N)	• SUB: 100 dB • L+R: 98 dB

Protections	Short circuit, thermal overload, DC offset, over-current, clip limiting.
Operational temperature range	0°C – 40°C (32°F –104°F)
AC Power Supply	115 / 230 V AC (selectable), 50 / 60 Hz
Power Consumption	Maximum 1600 W
Fuse Requirements	• 110–120 V AC: T20AL / 250 V • 220–240 V AC: T10AL / 250 V
Dimensions (W × D × H)	430 × 255 × 88 mm (16.9" × 10.0" × 3.5") *Width is 482.6 mm (19.0") including rack ears. Height is 2U rack space*
Net Weight	5.5 kg (12.1 lbs)

FCC COMPLIANCE STATEMENT FCC ID: XXXXXXX

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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-003 (B) / NMB-003(B)

For Canadian Customers / Pour les consommateurs canadiens:
This Class B digital apparatus complies with Canadian ICES003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

Trademarks:

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Notes

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