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A35.8 Stereo Amplifier User Guide

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SAFETY INFORMATION



The CE symbol indicates that this Primare product complies with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community.

The WEEE symbol indicates this Primare product complies with the European Parliament and Council Directive 2002/96/EC concerning Waste Electrical and Electronic Equipment (WEEE). This product must be appropriately recycled or processed in accordance with these directives. Consult your local waste disposal authority for guidance.

The RoHS symbol indicates that Primare products are designed and manufactured to comply with the Restriction of Hazardous Substances (RoHS) as stated in the European Parliament and Council Directive 2002/95/EC.

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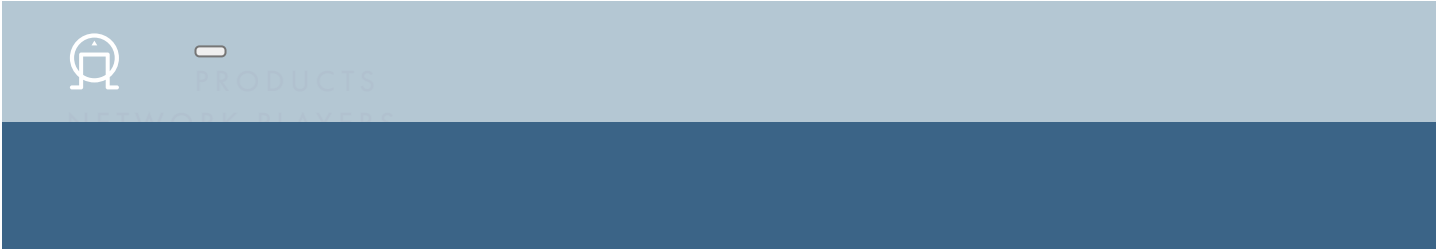
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WELCOME!

Congratulations on selecting your new A35.8 Eight Channel Amplifier

This user guide describes the features and explains how to set up the amplifier for the best sound quality and ease of operation in order to allow for the most enjoyable reproduction of sound from all your sources.



For additional support and assistance please contact your local authorized Primare dealer, or visit our website at www.primare.net.

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GETTING STARTED

1 Unpack the A35.8

Your A35.8 is supplied with:

- Mains cable
- IR/Trigger cable
- AC Polarity Pen (with batteries)

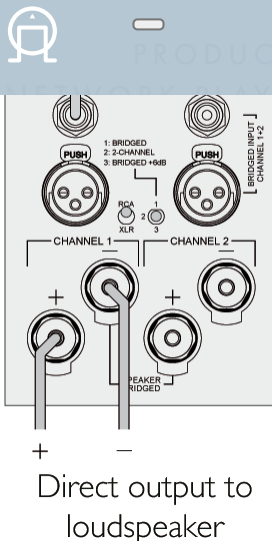
If any of these items are missing please contact your supplier. We recommend you retain the packaging in case you need to transport the unit at a later date.

Note that due to the high current draw, the A35.8 features a C20 IEC socket on the back panel, rather than the usual C13/14 IEC socket, so a replacement power cord should be terminated in a C19 IEC plug.

2 Connect speakers and inputs

The A35.8 can be used in a number of different speaker configurations. For examples of typical configurations see [System configurations](#).

Direct connection

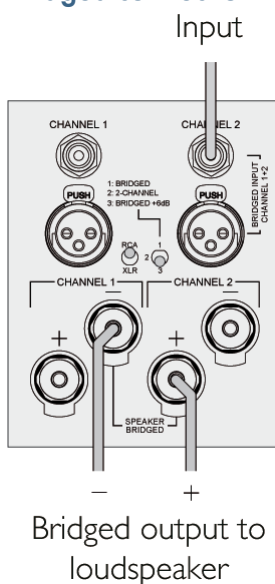


Each channel of the A35.8 can be connected directly to a loudspeaker of between 2Ω and 8Ω impedance.

- Connect the loudspeaker to the + and – terminals of the appropriate channel on the back panel.
- Set the channel switch to the centre position, **2: 2-CHANNEL**.
- Connect the input to the RCA or XLR input of the same channel, and set the RCA/XLR switch to the appropriate position.

Note that each pair of channels must both use the same type of input.

Bridged connection



Alternatively, any adjacent pair of channels can be connected to a single loudspeaker in bridged mode to achieve a higher power output.

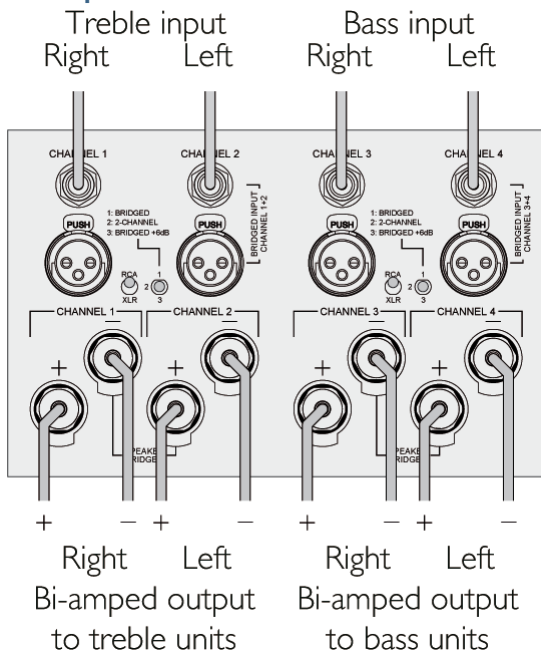
- Connect the loudspeaker to the + and – terminals indicated **SPEAKER BRIDGED** on the appropriate channel.
- While no damage will occur, it is recommended not have any wires connected to the unused outputs.
- Set the channel switch to the bridged position, **1: BRIDGED**.
- Connect the input to the RCA or XLR input of the even-numbered channel, and set the RCA/XLR switch to the appropriate position.

This will attenuate the input so the loudspeaker sounds as loud as if it was connected using a direct connection to one channel. This makes it easier to have a mixture of directly connected loudspeakers, and bridged loudspeakers, in a single configuration.



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bi-amp connection



Four channels can be used to connect separately to the bass and treble units of a pair of loudspeakers to drive them in bi-amped mode. Because of the way the outputs are configured internally the right loudspeaker should use two odd-numbered channels, and the left loudspeaker should use two even-numbered channels, as shown above.

- Use either the RCA or XLR inputs for all four channels, and set the two RCA/XLR switches in the appropriate position.
- Connect the right loudspeaker treble and bass inputs to two of the odd-numbered inputs.
- Connect the left loudspeaker treble and bass inputs to the two corresponding even-numbered inputs.
- Set the two channel switches to the centre position, **2: 2-CHANNEL**.
- Connect the loudspeaker outputs to the corresponding treble and bass units for each loudspeaker.

Making the speaker connections

The terminals can accept speaker cables terminated with bare wires, spade terminals, or banana plugs.

For the best sound quality connect the red wire from each speaker to the red terminal marked + and the black wire from each speaker to the black terminal marked –.

To connect bare wires unscrew the terminal, pass the bare wire through the hole in the terminal bolt, and clamp the wire in place by screwing the terminal back down hand tight.

Making the input connections

While no damage will occur, it is not recommended to have both the XLR and RCA inputs of a channel connected at the same time.

If you are using the RCA inputs use high quality stereo RCA leads.

If you are using the XLR inputs use balanced XLR cables.

3 Connect power

- Plug one end of the mains cable supplied with the A35.8 into the power connector on the back panel, and connect the other end to a wall socket.



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WARNING: Always disconnect the A35.8 from the mains power before connecting or disconnecting any cables.

- Switch on the A35.8, using the switch on the back panel.

The A35.8 will go into standby mode, indicated by the front panel light dimly illuminated.

4 Switch on

- Press the front panel standby switch, in the middle of the Primare logo.

The indicator light will blink for a few seconds before staying on.

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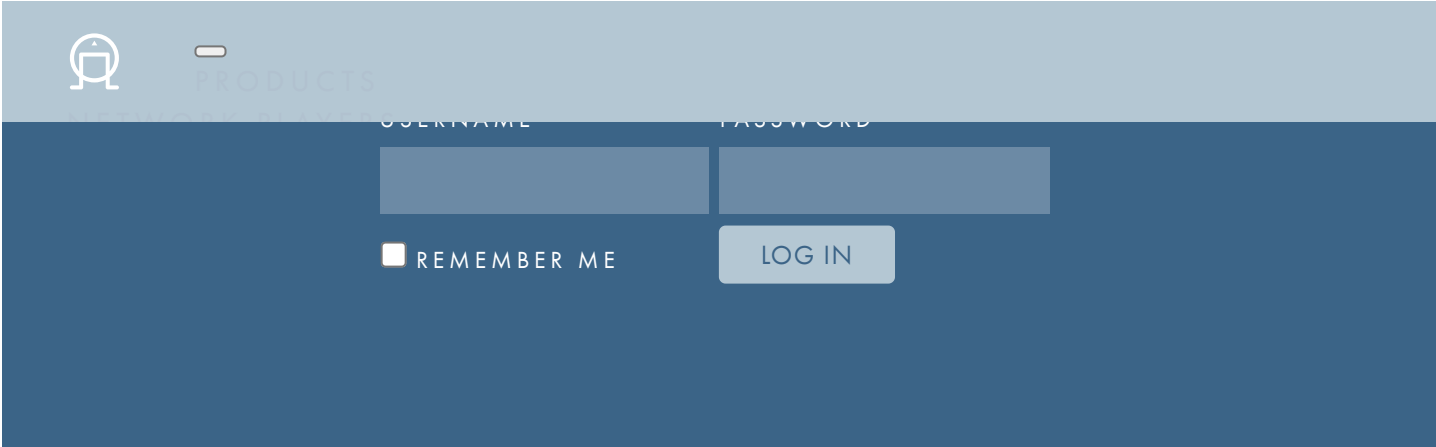
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SYSTEM CONFIGURATIONS

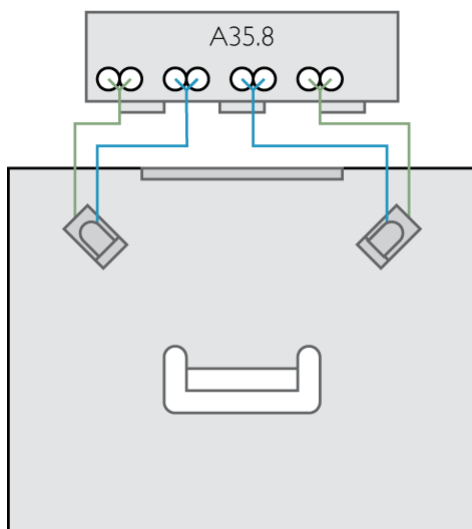
The bridging capabilities of the A35.8 allow it to be used in a variety of two- and multi-channel system configurations, in some cases with additional amplifiers, to suit most system requirements.

This section describes some typical configurations, with information about how you would connect the A35.8 and other amplifiers in each system.

2.0 Stereo system

Two-channel bi-amplified system with one A35.8, all pairs of outputs bridged, providing peak power of 4×375 watts or 750 watts per pair per channel at 8Ω:

2.0 Stereo Speaker Layout



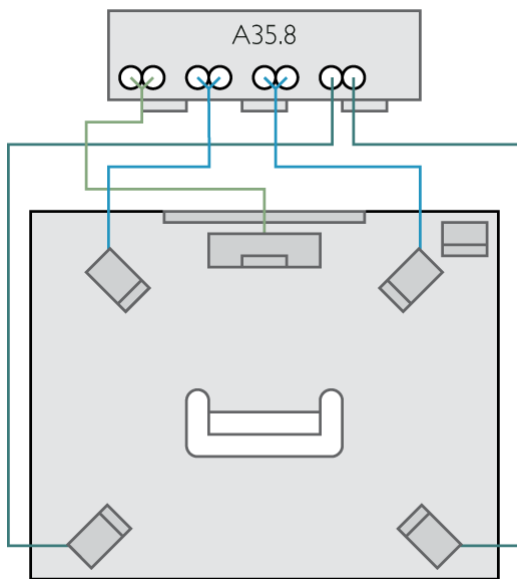


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SPEAKERS

Left and Right:

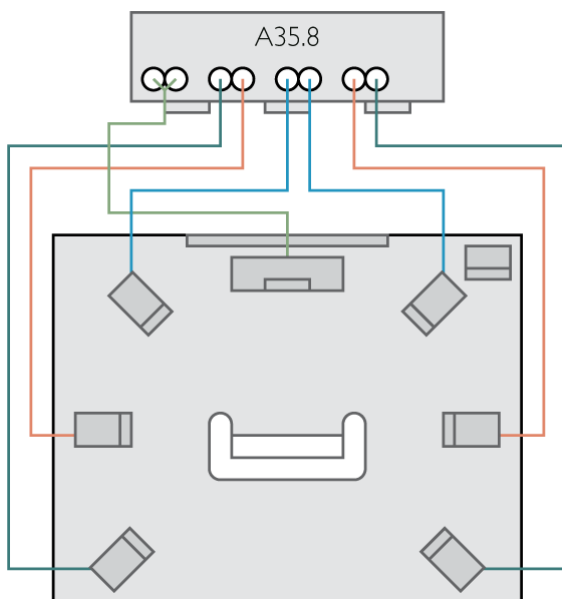
5.1 Speaker Layout



7.1 Dolby/DTS system

Uses one bridged pair of outputs for Centre, with the remaining outputs for the Front Left and Right, Surround Left and Right, and Rear Surround Left and Right:

7.1 Speaker Layout

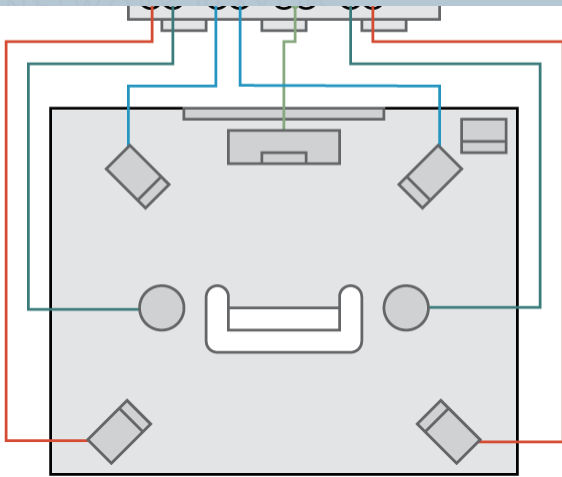


5.1.2 Dolby Atmos/DTS:X System

Uses a bridged pair of outputs for Centre, with the remaining outputs for the Front Left and Right, Surround Left and Right, and Height Left and Right.



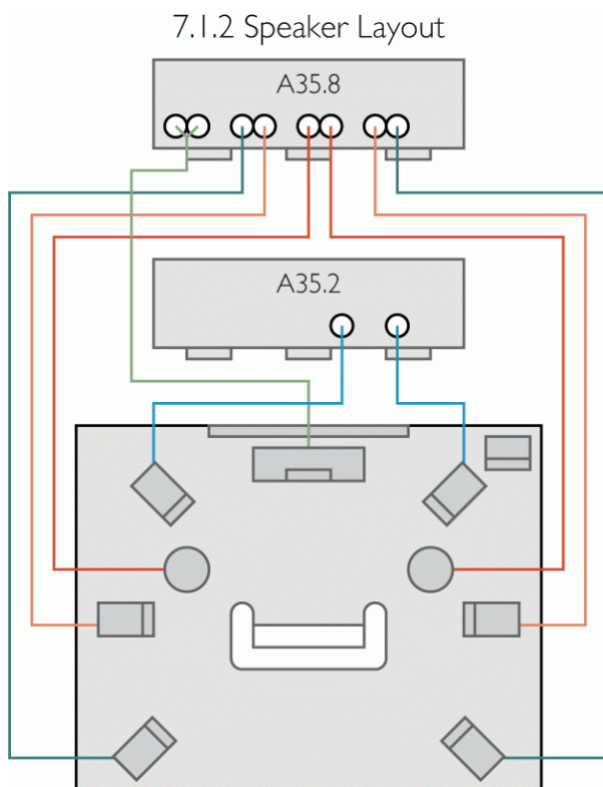
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7.1.2 Atmos/DTS:X system

Adds an A35.2 stereo amplifier for the Front Left and Right speakers.

Uses one bridged pair of outputs from the A35.8 for Centre, and the remaining outputs from the A35.8 for Surround Left and Right, Rear Surround Left and Right, and Height Left and Right:



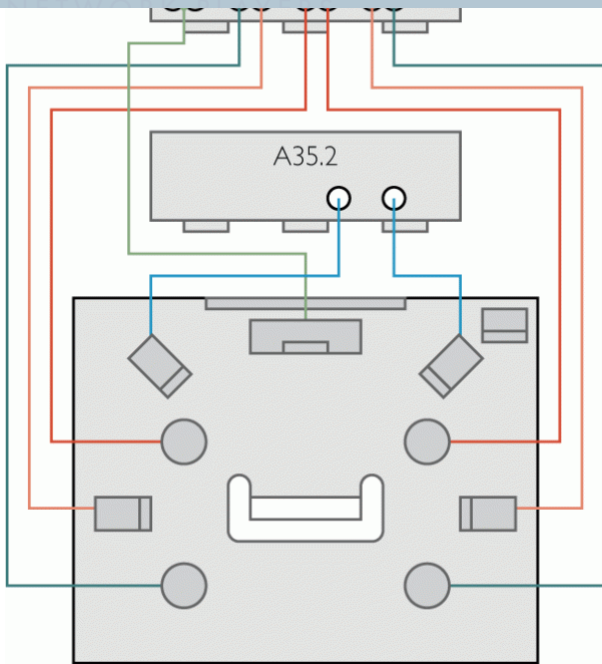
5.1.4 Atmos/DTS:X system

Adds an A35.2 stereo amplifier for the Front Left and Right speakers.

Uses one bridged pair of outputs from the A35.8 for Centre, and the remaining outputs from the A35.8 for Surround Left and Right, Front Height Left and Right, and Rear Height Left and Right:



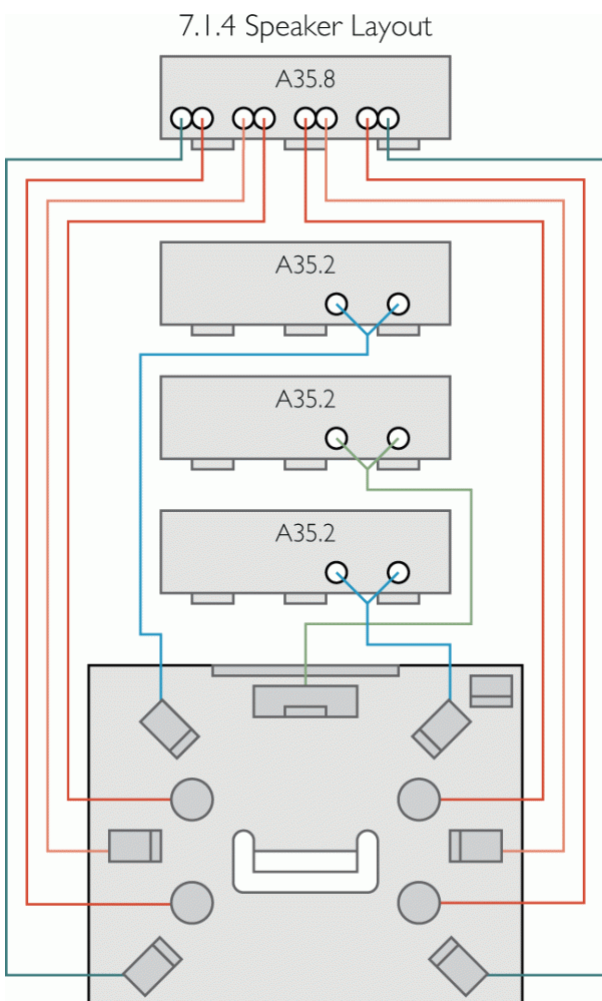
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7.1.4 High-Power Atmos/DTS:X System

Adds three bridged A35.2 amplifiers for Front Left, Right, and Centre speakers.

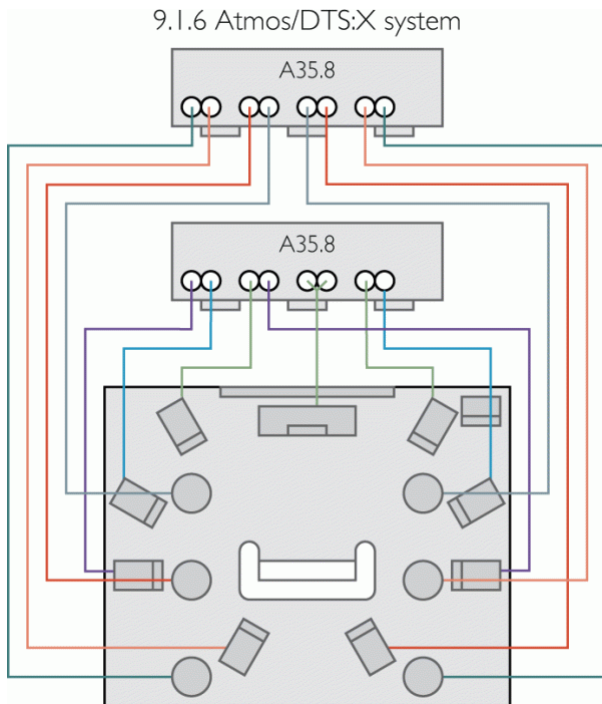
The A35.8 provides the Surround Left and Right, Rear Surround Left and Right, and Front and Rear Left and Right Height speakers:





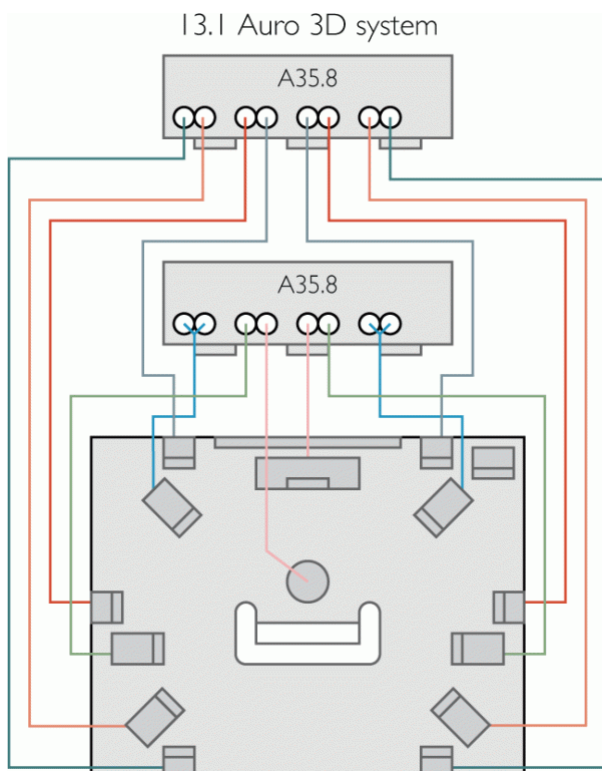
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Left and Right, Wide Left and Right, Surround Left and Right, Rear Surround Left and Right, and Front, Middle, and Rear Left and Right Height speakers:



13.1 Auro 3D system

Uses two A35.8 amplifiers, with bridged pairs of outputs for the Front Left and Right speakers, and the remaining 11 outputs for the Centre speaker, Front Left and Right Height speakers, Surround Left and Right speakers, Middle Left and Right Height speakers, Rear Surround Left and Right speakers, Rear Left and Right Height speakers, and Top speaker:





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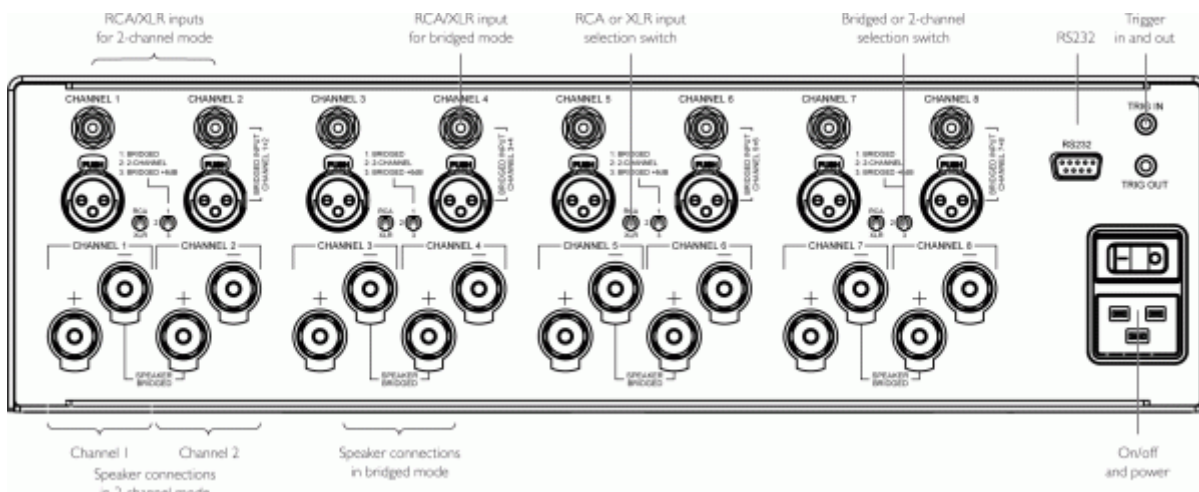
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BACK-PANEL CONNECTIONS

The following diagram explains the function of each of the connectors on the back panel:



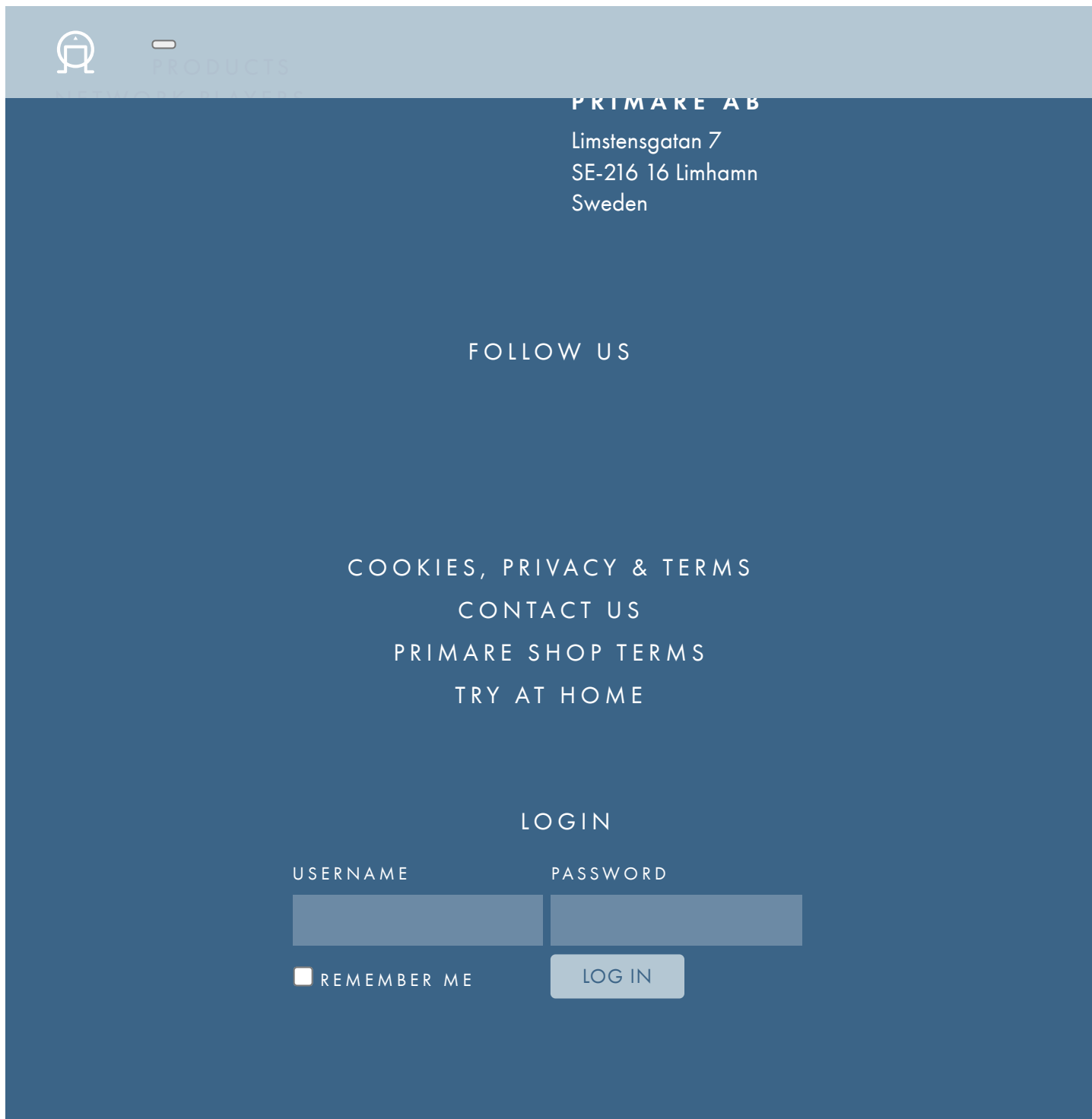
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TECHNICAL SPECIFICATION

Amplifier module

Hypex NCore500

Power supply

Primare APFC

Speaker outputs

8 outputs with each pair bridgeable.

Output power at 1 kHz:

- 400 watts at 2Ω
- 300 watts at 4Ω
- 150 watts at 8Ω

Output power bridged at 1 kHz:

- 450 watts at 2Ω
- 750 watts at 4Ω
- 740 watts at 8Ω

Analogue inputs

Inputs per channel:



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Input impedanceRCA: 15k Ω XLR: 36k Ω **Input sensitivity**RCA 150W 8 Ω = 1.7VXLR 150W 8 Ω = 3.4V**Performance****Gain**

RCA 26dB

XLR 20dB

Frequency response

20Hz – 20kHz +0.2/-0.5dB

Distortion

THD + N: < 0.005%, 20Hz – 20kHz

Signal to noise

>115 dB

General**Control**

Trigger in/out

RS232

Auto Sense: on/off

Input: RCA/XLR

Gain: +6db bridge mode only

Power Consumption

Off: 0W

Standby: <0.5W

Operating: <65W

Fuses

- 100V-200V: T20AL/250V
- 230V-240V: T10AL/250V

Internal on printed-circuit board. Should only be replaced by a trained technician.

Dimensions

430 x 400 x 145 mm (w x d x h) with knobs and connectors

430 x 382 x 145 mm (w x d x h) without knobs and connectors

Weight



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SPEAKERS

Black or titanium

Note: features and specifications are preliminary and subject to change.

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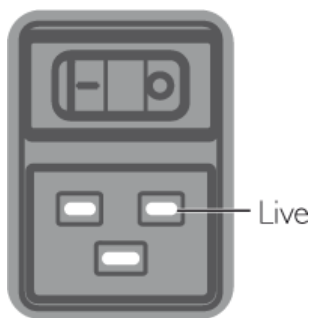
These instructions help you get the best possible sound from your A35.8.

Phase

The phase of the AC supply can make a significant difference to the sound.

Use the Polarity Pen supplied with the A35.8 to verify which pin is live on your AC power cable.

Ensure that the live pin of the AC power cable is connected to the right-hand pin of the power connector, viewed from the back panel:



Burn-in

Your Primare will start to sound best after an initial burn-in of approximately 24 hours.

You will notice a further smaller improvement in sound quality for at least another 3 days' playing.

RS232



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Trigger

For convenience the A35.8 can be powered on and off via a remote link cable, avoiding the need to switch it on or off separately from the preamplifier in the system.

To power the A35.8 on and off remotely from a Primare processor or preamplifier connect the TRIG OUT signal from the processor/preamplifier to the TRIG IN socket on the A35.8, using a mono 3.5mm jack plug.

The TRIG OUT socket can be used to daisy-chain the remote output to further A35 series amplifiers.

Automatic standby

By default, if no signal is present for 20 minutes the A35.8 will automatically go into standby to save power.

To disable automatic standby

- Press and hold down the front panel button for a few seconds, and release once the indicator light has flashed two times and become steadily illuminated.

To re-enable automatic standby

- Turn the A35.8 off and then on again using the switch on the back panel.

Clipping indicators

Eight internal red clipping indicators, one for each channel, are visible when looking from above into the amplifier through the top cover openings

When the A35.8 is turned on, or comes out of standby, the clipping indicators will flash briefly.

The indicators will also flash if the input or output level is too high, and will remain on if that level is constant.

If clipping occurs repeatedly on a channel reduce the input level on that channel, or increase the headroom on that channel by using a bridged connection to the loudspeaker.

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