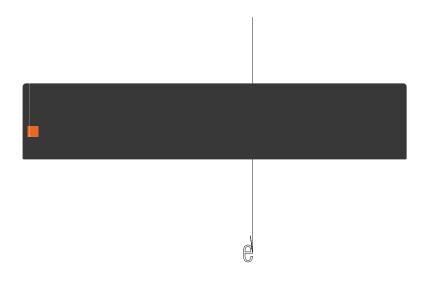




Commercial Series



. HARMAN

Contents

IMPORTANT SAFETY INFORMATION

The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrow point in an equilateral triangle means that there are dangerous volt7.5 (h = 25.9 (a T) = 33.5 \text{gonti(i)} - 19.1 (b) = 21.5 (h =

Strange Contract

NOTICE FOR CUSTOMERS IF YOUR UNIT IS EQUIPPED WITH A POWER CORD

WARNING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

The cores in the mains lead are colored in accordance with the following code:

GREEN and YELLOW - Earth

BLUE - Neutral BROWN - Live

As colors of the cores in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

- The core which is colored green and yellow must be connected to the terminal in the plug marked with the letter E, or with the earth symbol, or colored green, or green and yellow.
- The core which is colored blue must be connected to the terminal marked N or colored black
- The core which is colored brown must be connected to the terminal marked L or colored red

This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. If the attachment plug needs to be changed, refer servicing to qualified service personnel who should refer to the table below. The green/yellow wire shall be connected directly to the units chassis.



WARNING: If the ground is defeated, certain fault conditions in the unit or in the system to which it is connected can result in full line voltage between chassis and earth ground. Severe injury or death can then result if the chassis and earth oround are touched simultaneously.

WARNING FOR YOUR PROTECTION READ THESE INSTRUCTIONS:

KEEP THESE INSTRUCTIONS

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING LIQUID AND NO OBJECT FILLED WITH LIQUID, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS

CLEAN ONLY WITH A DRY CLOTH.

- DO 8103 ԹԻՆՄ (MANY: SOF(T) HE: VENT) MAXION OPENINGS (NSTALL (N)-1\$.9 (t)-1-21 ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

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 third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 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.

POWER ON/OFF SWITCH: For products provided with a power switch, the power switch DOES NOT break the connection from the mains

MAINS DISCONNECT: The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

FOR UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE: Replace fuse with same type and rating only.

MULTIPLE-INPUT VOLTAGE: This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. Connect this equipment only to the power source indicated on the equipment rear panel. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel or equivalent.

If connected to 240V supply, a suitable CSA/UL certified power cord shall be used for this supply.



IMPORTANT SAFETY INFORMATION



A molded mains plug that has been cut off from the cord is unsafe. Discard the mains plug at a suitable disposal facility. NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAINS PLUG INTO A 13 AMP POWER SOCKET. Do not use the mains plug without the fuse cover in place. Replacement fuse covers can be obtained from your local retailer. Replacement fuses are 13 amps and MUST be ASTA approved to BS1362.



This device complies with part 15 of the FCC Rules and the Product specifications noted on the Declaration of Conformity. Operation is subject to the following two conditions:

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

Operation of this unit within significant electromagnetic fields should be avoided.

Use only shielded interconnecting cables.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery a

Private household in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one)

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

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CAUTION! Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

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Apparatet må tilkoples jordet stikkontakt

Apparaten skall anslutas till jordat uttag

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan

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EC - DECLARATION OF CONFORMITY

Brand: B

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Equipment Type: Commercial Audio Amplifiers **Model names:** A 1300 , A 2300

We, Harman International,	. ,	1 , . , 1 1
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EN 55103-1:2009 +A1:2012	EMC Compatibility – Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use, Part 1: Emissions
EN 55103-1:2009 +A1:2012	Magnetic Field Emissions – Annex A @ 10cm and 20cm
EN 61000-3-2:2006, AMD1:2008, & A2:2009	Limits for Harmonic Current Emissions (equipment input current less than or equal to 16A
EN 61000-3-3:2013	Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply systems Rated Current less than or equal to 16A
EN 55022:2010	Limits and Methods of Measurement of Radio Disturbance Characteristics of ITE: Radiated & Conducted, Class B Limits
EN 55103-2:2009	EMC Compatibility – Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use, Part 2: Immunity
EN 61000-4-2:2009	Electrostatic Discharge Immunity (Environment E2-Criteria B, 4k V Contact, 8k V Air Discharge)
EN 61000-4-3:2010 Ed 3.2	Radiated, Radio-Frequency, EMC Immunity (Environment E2, Criteria A)
EN 61000-4-4:2007	Electrical Fast Transient/Burst Immunity (Criteria B)
EN 61000-4-5:2006	Surge Immunity (Criteria B)
EN 61000-4-6:2006	Immunity to Conducted Disturbances Induced by Radio-Frequency Fields (Criteria A)

IEC 60065:2002 +A12:2011, Safety Requirements – Audio, Video, and Similar Electronic Apparatus IEC 60065:2001 Ed +A1:2005 +A2:2010

EN 61000-4-11:2004 Voltage Dips, Short Interruptions and Voltage Variation

Due to line current harmonics, we recommend that you contact your supply authority before connection.

> European Representative's Name and Address:

Responsible for the technical documentation is:



1.1 Features

1.2 Front Panel Controls and Indicators

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2.0 Setup

WARNING

CAUTION

2.3 Ensuring Proper Cooling

2.4 Choosing Input Wire and Connectors

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2.5 Output Wiring and Connectors

2.6 Wiring Your Audio System

2.7 Connecting to AC Mains

2.8 Protecting Your Speakers

2.9 Startup Procedure

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3.0 Operation

3.1 Precautions

CAUTION: JBL is not liable for damage that results from overdriving other system components.

3.2 70/100V Switch

3.3 Remote Control Capability

CSA1300Z & CH1 of CSA2300Z

Pin	Function	Usage

Pin	Function	Usage

4.0 Troubleshooting

CONDITION: No sound or low sound.

CONDITION: Distorted sound.

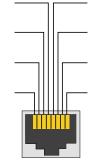
Performance	CSA 1300Z	CSA 2300Z
$\begin{array}{ccc} \textbf{Rated Power} & \Omega & \Omega \\ & \leq & \end{array}$		
Number of Output Channels		
Insertion Loss		
Input Sensitivity Ω Load		
Frequency Response Ω, 20Hz - 20kHz		
Total Harmonic Distortion		
Signal-to-Noise Ratio		
Input Impedance	Euro Block: 20 kΩ (ba	alanced); RCA: 10 kΩ
Maximum Input Level		
Crosstalk		
Tone Controls		
Nominal AC Line Voltages		
Minimum Load Impedance	4 Ω 12 Ω 24 Ω	4 Ω 12 Ω 24 Ω
Operating Temperature/Humidity		
Storage Temperature		
Dimensions & Weight		
Net Weight (preliminary estimate)		
Dimensions		
Shipping Weight		

_____www.jblcommercialproducts.com

Appendix B: Remote RS232 Control

CSA1300Z & CH1 of CSA2300Z

Pin	Function	Usage



View of Rear Panel Receptacle

List of Serial Commands

Action	Comment
	Action

Serial Communication Settings

Appendix B: Remote RS232 Control

Integer	Volume Level
integer	(Attenuation)
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Appendix C: Contact Information

