

Owner's Manual

SA-1500 STEREO INTEGRATED AMPLIFIER

Phasemation

Thank you for purchasing Phasemation product.

Read your Owner's Manual thoroughly for proper operation before starting to use your equipment.

Please keep your Owner's Manual with caution.

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Safety Instructions

Before starting to use

In this owner's manual and on the product, various pictures are used to show our customers how to use Phasemation SA-1500 safely and properly in order to avoid the loss of our customer's assets and to protect our customers from harm.

SAFETY PRECAUTIONS

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>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.</p>		
	The lightning flash with 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 appliance.	
<p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.</p>		

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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. 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.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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.
14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.



▪ DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN55032, EN55020, EN61000-3-2 and EN61000-3-3.

Following the provisions of Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU

Usage Cautions

CAUTION:

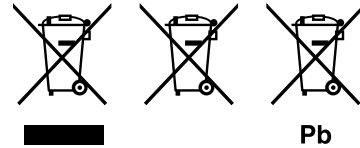
To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

A NOTE ABOUT RECYCLING:

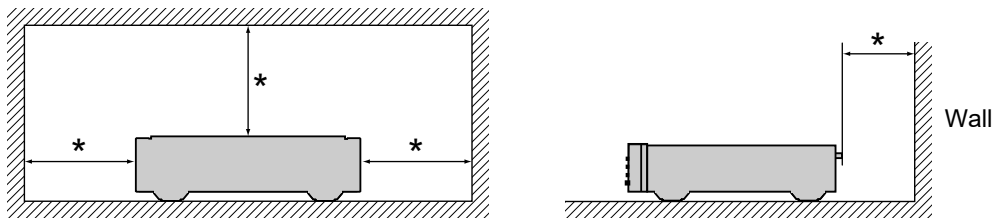
This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

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

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



Cautions on installation



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

- More than 0.1 m is recommended.
- Do not place any other equipment on this unit.

NOTE ON USE

WARNINGS

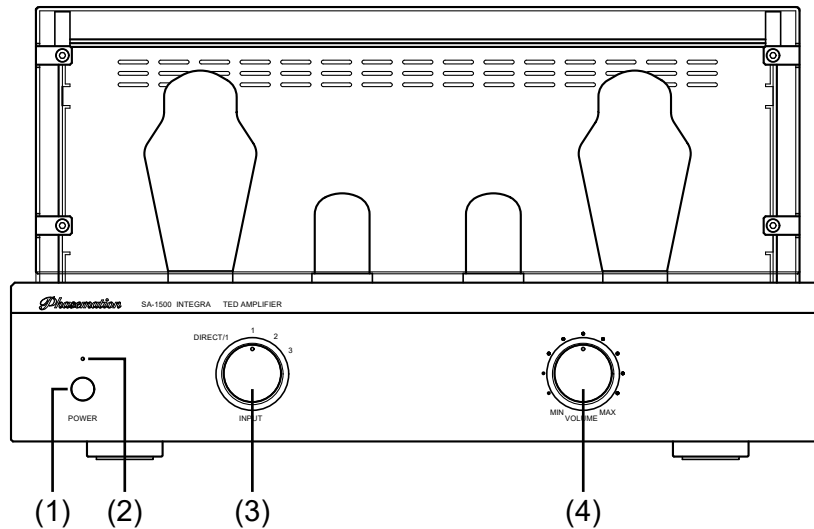
- Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack.
- Handle the power cord carefully. Hold the plug when unplugging the cord.
- Keep the unit free from moisture, water, and dust.
- Unplug the power cord when not using the unit for long periods of time.
- Do not 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.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.

Care of Equipment

- ⊙ If the equipment is covered with dust or dirt, clean it with a soft cloth.
- ⊙ If the equipment is very dirty, put detergent which is thinned very well with water on a soft cloth. Wring the cloth and wipe off the dust and dirt. Then clean with a dry soft cloth.
- ⊙ Never use chemical agents such as thinner, naphtha or alcohol when cleaning it. If any of them is attached to the equipment, the silk printing can be flaked or the surface can lose metal luster.

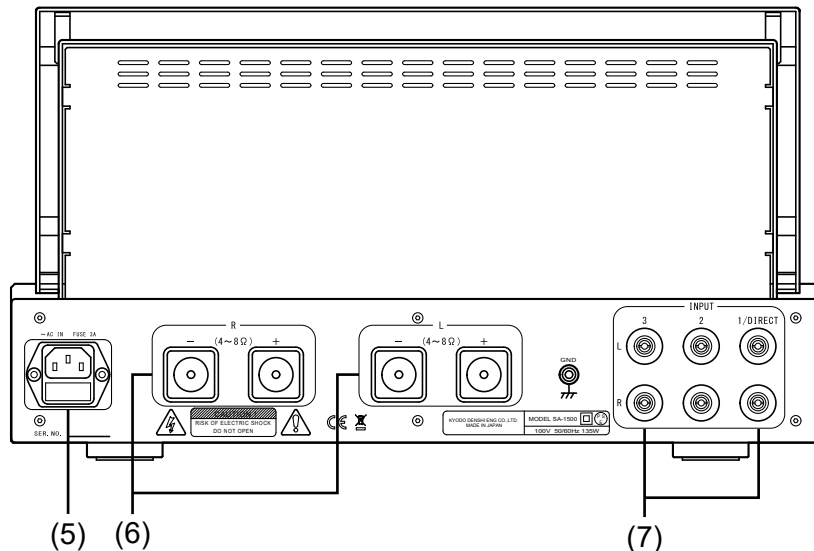
Names and Functions

Front Panel



- (1) **POWER switch** The power can be turned on or off by pressing the POWER switch. After pressing the POWER switch.
- (2) **POWER indicator** When the power is ON, it lights up blue.
- (3) **INPUT SELECTOR Knob** Select input terminals 1~3 corresponding to the playing source. When DIRECT/1 is selected, input terminal 1 bypasses the volume control and operates as a power amplifier.
- (4) **VOLUME Knob** This is a knob to adjust the volume. Turning the knob clockwise increases the volume, turning it counterclockwise decreases the volume.

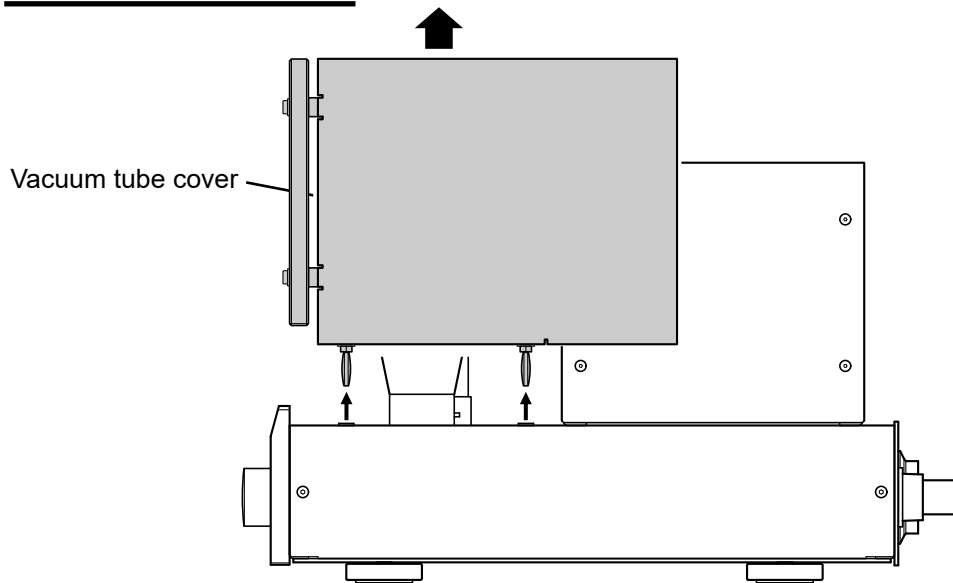
Rear Panel



- (5) **AC power IN** This is the power inlet terminal. Connect to a power outlet using the included AC power cable. Avoid using this product in power environments other than specified.
- (6) **Output terminals** Connect to a speaker. These terminals can be connected to a 4 to 8 ohm speaker.
- (7) **Input terminals** Connect the output terminals of a CD player, phono amplifier, network player, etc. The input terminals have three stereo unbalanced (RCA) inputs.

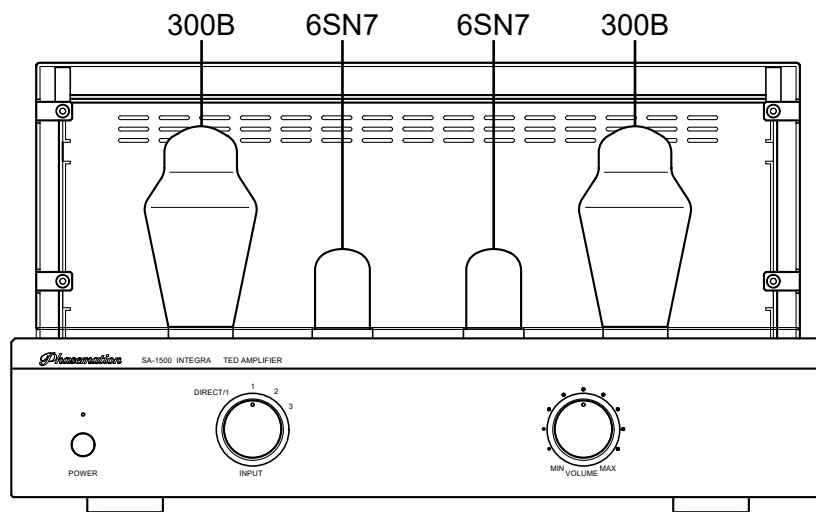
Mounting or Removing the Vacuum Tubes

Removing the cover

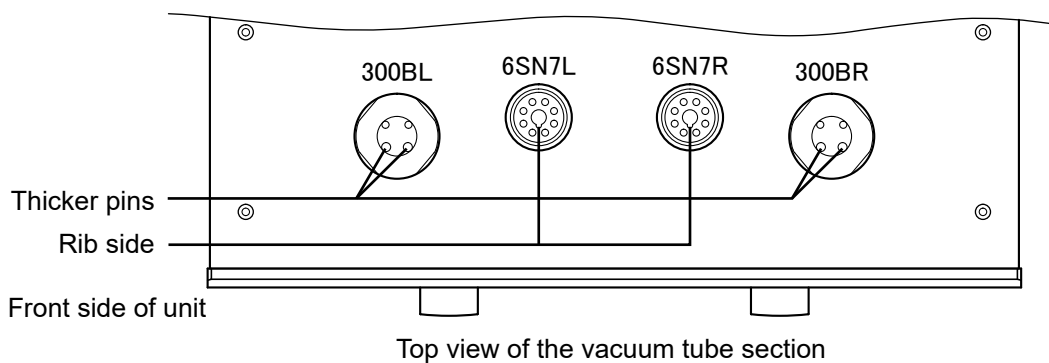


(1) Remove the vacuum tube cover by pulling it straight up.

Mounting the vacuum tubes



- (1) The vacuum tubes are arranged in order of “300B”, “6SN7”, “6SN7”, “300B” from the left.
- (2) Vacuum tubes have a specific inserting direction.
Please install each vacuum tube in the direction shown in the diagram below, following the name on the sticker attached to it.



(3) After mounting all vacuum tubes, attach the vacuum tube cover.

Removing the vacuum tubes

- (1) Remove the vacuum tube cover.
- (2) When removing the vacuum tube, you must hold the bottom of the vacuum tube (resin part) and pull it out. If holding the glass portion, the vacuum tube may break.

Cautions for handling the vacuum tubes

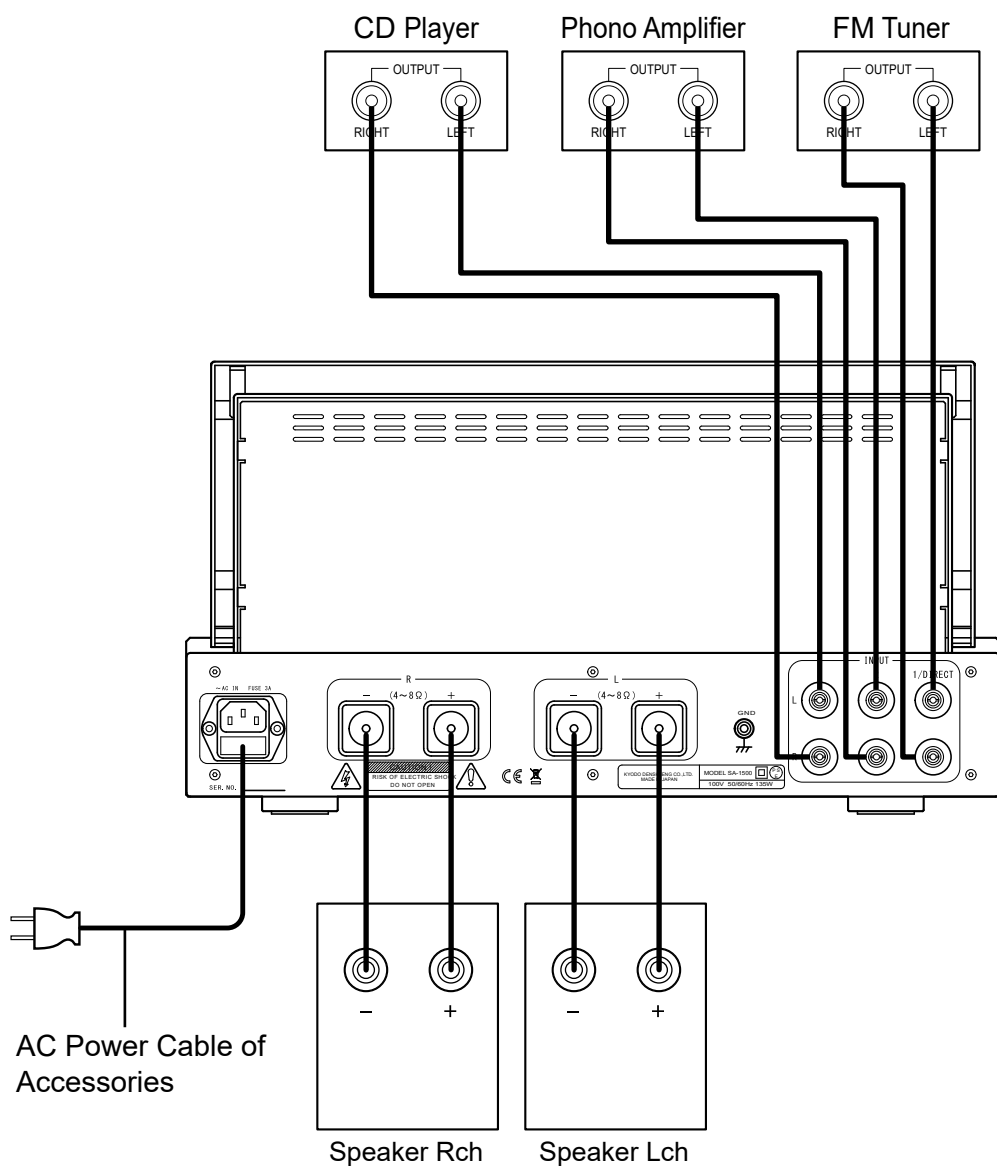
- Since the vacuum tubes are made of glass, they can be broken easily and, therefore, they should be handled carefully.
- Vacuum tubes may be removed after the power is turned off and vacuum tubes are cooled down. If done before the vacuum tubes cool down, this can result in a risk of failure, electric shock, or burns.
- The vacuum tubes of the accessories are good tubes selected from measured performance. In case a vacuum tube except our ones (of accessories) is used, this can result in a risk of performance deterioration or failure. Vacuum tubes from the accessories should be used.
- After mounting the vacuum tubes, the cover must be placed back. For the vacuum tubes, a high voltage is applied in the operation and then they turn to a high temperature. If touched by someone or an object drops on top of it, these can result in a risk of burnt injury, electric shock, or fire.
- When an abnormal state occurs for the vacuum tubes, please contact your dealer.

Caution on the vacuum tube cover

This sound tuning was done with fixed top cover.

Therefore do not remove the top cover attached while you are playing.

Connections example



Caution

When using direct mode, be sure to use a preamplifier.

Trouble Shooting Guide

In case the equipment does not operate properly, check out the followings.
If it does not operate properly even after checking the advised points, endure to disconnect the AC plug from the outlet and then contact the dealer.

Trouble	Causes	Measures
The power is not supplied.	<ul style="list-style-type: none">● The plug of AC power cable is not plugged in completely.	<ul style="list-style-type: none">● Insert the plug of the AC cable into an outlet firmly.● Firmly insert the outlet of the AC power cable into the AC inlet of the power equipment.
The sound is not heard.	<ul style="list-style-type: none">● The input audio wires are not plugged in completely.● The speaker wires are not plugged in completely.	<ul style="list-style-type: none">● Insert the audio wires completely.● Insert the speaker wires completely.
Hum noise is heard.	<ul style="list-style-type: none">● The input audio wires are not plugged in completely.● A power supply transformer or motor in an other equipment is installed near this equipment.	<ul style="list-style-type: none">● Insert the input audio wires completely.● Place this equipment apart from the power supply transformer or motor of other equipments.
Sound is not heard immediately after turning the power on.	<ul style="list-style-type: none">● Sound is not outputted until the circuits come to stable operation.	<ul style="list-style-type: none">● Please wait about 30 seconds.

User Support

As for the unclear matters with regards to the after service, please contact the dealer.

Specifications

Product	300B Single Integrated Amplifier
Input impedance	47k ohms
Gain	30dB
Residual Noise	200 μ V or below: A-NET
Rated output	9W / 4 ohms (T.H.D. 5 %)
Frequency characteristics	10 Hz to 40 kHz (+0, -3 dB)
Speaker Impedance	4 to 8 ohms
Power consumption	160 W (230V AC)
External dimensions (mm)	430 (W) x 240 (H) x 380 (D)
Weight	18 kg

Accessories: AC power cable (x1)
Vacuum tube: PSVANE 300B (x2)
JJ 6SN7 (x2)

- The appearance and specifications of this equipment are subject to change without notice due to improvements.

Phasemation

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Phasemation is the original audio brand of Kyodo Denshi Engineering Co., Ltd.