

Phasemation

LT-1000

LINE TRANSFORMER
Owner's Manual

L100-1025-00

Thank you for purchasing Phasemation product.
Read your Owner's Manual thoroughly for proper operation before starting to use your equipment.

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 T-600 safely and properly in order to avoid the loss of customer's assets and to protect our customers from harm.

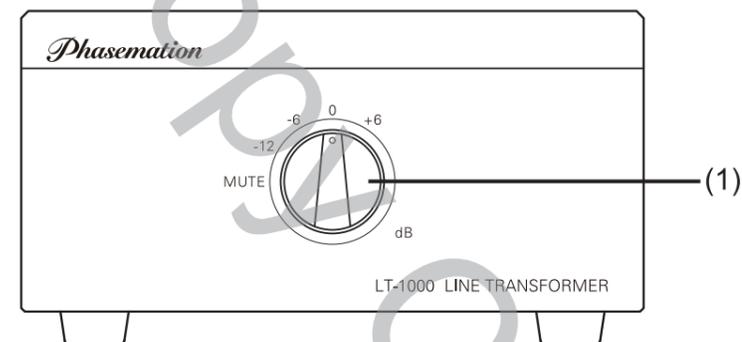
Indication Mark Ex. / Inside the diagrams or nearby shows in detail what is prohibited.		
	Electric Shock Caution	
	This sign states that there are contents that urges caution (including danger/warning).	
	This sign states prohibited action.	
	This sign states that there are contents that forces or instructs action.	

WARNINGS If this indication is ignored and handled incorrectly, these contents show that there is a possibility that can cause death or severe injury of a person.		
	<ul style="list-style-type: none"> Do not use the equipment being broken. 	<ul style="list-style-type: none"> In case this equipment falls or is damaged, or the abnormal sound is brought, stop it and consult your dealer. If continuing using without measure, it can be caused to malfunction. Never repair it because repairs done by the user is very dangerous.
	<ul style="list-style-type: none"> Never remodel the equipment. 	<ul style="list-style-type: none"> Disassembling or remodeling this unit not only causes it to be damaged but can affect other devices. Therefore never disassemble or remodel.
	<ul style="list-style-type: none"> Never install the equipment near water. 	<ul style="list-style-type: none"> Do not use the equipment in the bathroom. This can result in a risk of fire or electric shock. The equipment is designed for using indoors. Do not expose the equipment to water. This can result in a risk of failures, fire, and electric shock.
	<ul style="list-style-type: none"> Never put an object filled with water on the equipment. 	<ul style="list-style-type: none"> Do not put a vase, flower pot, glass or any object filled with skin lotion, cup, chemical, water, or small metal object on the equipment. In case the liquids are spilled or fall inside the equipment, this can result in a risk of fire or electric shock.
	<ul style="list-style-type: none"> Never put an object inside the equipment. 	<ul style="list-style-type: none"> If a foreign object has fallen inside the equipment, contact the dealer. To keep using the equipment can result in a risk of fire or electric shock.

CAUTION If this indication is ignored and handled incorrectly, these contents show that there is a possibility that people can get injured or objects can get damaged.		
	<ul style="list-style-type: none"> Do not place on top of unstable places. 	<ul style="list-style-type: none"> Do not place on top of unstable places such as wobbling stands or tilted areas. It can fall or drop on the ground and cause injury.
	<ul style="list-style-type: none"> Do not set anything heavy on top. 	<ul style="list-style-type: none"> Do not set anything heavy or any big object that sticks out of the edge of this unit. It can lose its balance and fall or drop on the ground, and cause injury.
	<ul style="list-style-type: none"> When moving it 	<ul style="list-style-type: none"> When moving it, turn the power switch off of connected devices and disconnect cords and then move it. If not, the cords could get damaged and can cause fire or electric shock.
	<ul style="list-style-type: none"> Places which are not suitable for installation 	<ul style="list-style-type: none"> Places where it comes into contact with soot or steam such as kitchen counters and humidifiers. Places where there is too much humidity or dust. Hot areas such as near heaters or places where it comes into contact with direct sunlight. It may cause fire or electric shock.
	<ul style="list-style-type: none"> Connection 	<ul style="list-style-type: none"> When connecting with other audio equipments, read the manual of the equipments, turn the power switch off, and connect according to the instructions.

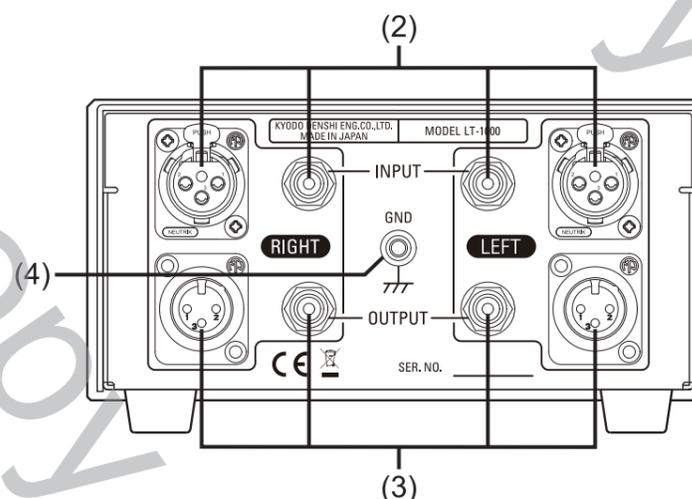
Connections

Front Panel



- (1) GAIN Knob
- This is a knob to select the unit's gain of MUTE/-12/-6/0/+6dB.
 - Selecting MUTE short-circuits the input and prevents sounds to come out.

Rear Panel



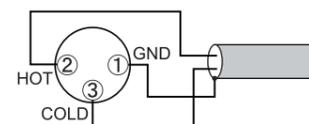
- (2) INPUT Terminals
- This terminal is for connecting output terminals such as pre-amplifiers or CD players. The input terminal has an unbalanced input due to the RCA pin connector and a balanced input due to the XLR connector.

- (3) OUTPUT Terminals
- This output terminal can output an unbalanced output due to the RCA pin connector and a balanced output due to the XLR connector simultaneously.

- (4) GND Terminal
- This is a ground reference point for audio signals.

Note

For this unit, an XLR connector is used for the balanced terminal. The pin settings are as shown in the diagram.
Pin 1 = GND, Pin 2 = HOT, Pin 3 = COLD



- This unit converts RCA↔XLR on the transformer. During conversion, the following gain difference occurs due to the characteristics of the transformer.

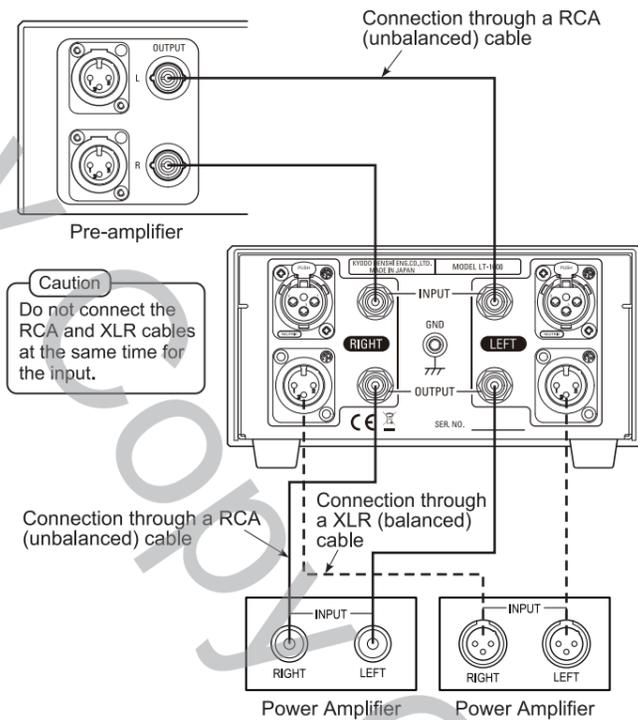
INPUT	OUTPUT	GAIN
RCA → RCA	RCA	0dB
XLR → XLR	XLR	0dB
RCA → XLR	XLR	+6dB
XLR → RCA	RCA	-6dB

Caution

Avoid connecting the ground using this terminal to equipments connected through the RCA pin connector or XLR connector. The sound quality can be deteriorated because of forming a ground loop among some equipment. Utilize this terminal to connect the ground of an equipment that is separated from audio signals such as the motor of an analog player, the chassis of an MC step-up transformer, or the ground from the solid earth as necessary.

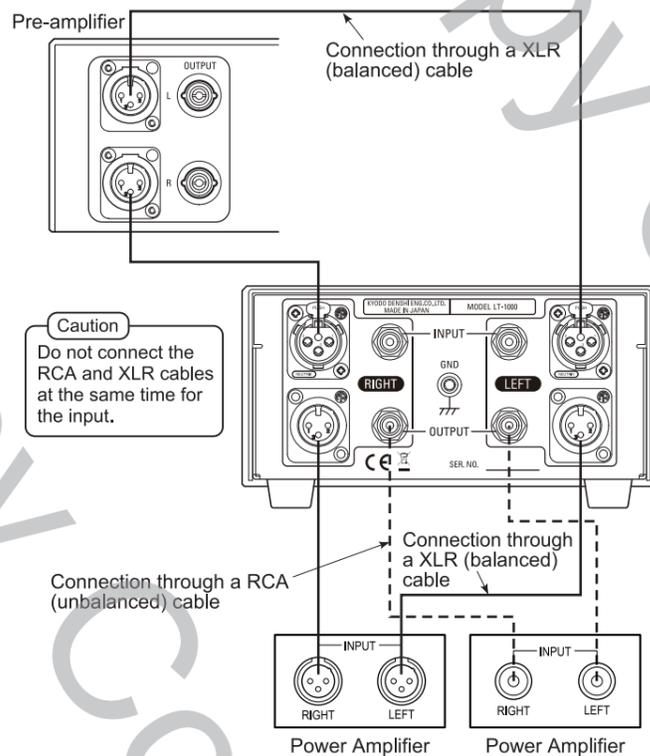
Connection (Between Pre-amplifier and Power Amplifier)

For RCA (unbalanced)



Note
Simultaneous output to two power amplifiers is possible.

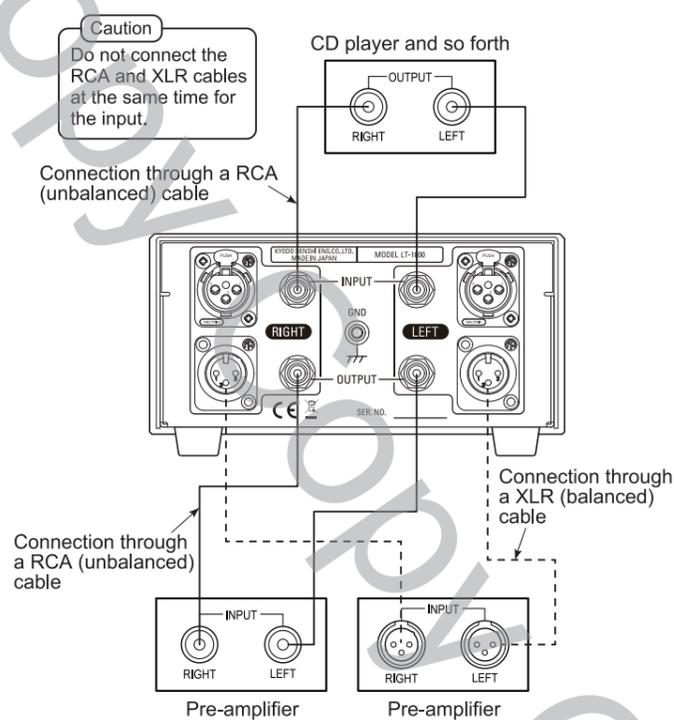
For XLR (balanced)



Note
Simultaneous output to two power amplifiers is possible.

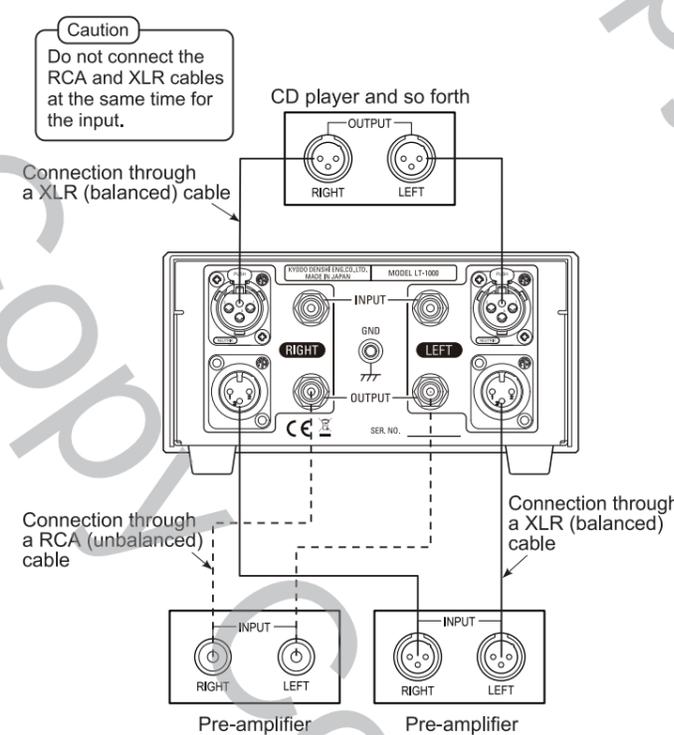
Connection (Between Player and Pre-amplifier)

For RCA (unbalanced)



Note
Simultaneous output to two pre-amplifiers is possible.

For XLR (balanced)



Note
Simultaneous output to two pre-amplifiers is possible.

Key Features

- Balance/unbalance conversion function
- Level adjustment function loaded with a +6dB amplification gain

Suitable for Use in a Variety of Situations

- It is also possible to connect between devices that only have XLR terminals and devices that only have RCA pin terminals.
- Enables optimal level settings (VOLUME settings) between pre-amplifier and power amplifier.
- Cuts unnecessary high and low noise between lines resulting in "easy listening."
- Simultaneous output to two power amplifiers is possible. (One balanced and one unbalanced channel each)

Usage Cautions

Installation place

In order to use the equipment for a long time, follow the instructions shown in below:

- Do not install this equipment near a heat source such as direct sun light, a stove and so on.
- Do not use this equipment at a poorly-ventilated, humid or dusty place.
- Do not install this equipment at an unstable place such as a slope or a vibrating place.
- Do not install this equipment near the window where the equipment can be exposed to rain.
- Do not place this equipment somewhere that can come in contact with soot or steam such as a kitchen counter or humidifier.
- Avoid using this equipment on an equipment generating heat such as an amplifier.
- Do not place this equipment near a power supply transformer or a motor of another equipment.

Repair

- In case of the equipment failure consult the dealer.

Care of Equipment

- Ⓞ If the equipment is covered with dust or dirt clean it with a soft cloth.
- Ⓞ If the equipment is covered with heavy dust put a very thin mild detergent 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.

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, then contact the dealer.

Trouble	Causes	Measures
The sound is not heard.	● The audio wires are not plugged in completely.	● Insert the audio wires completely.
Sounds warp and the volume decreases.	● Both XLR and RCA are connected to the input terminal.	● Connect either one of them into the input terminal.
A hum noise is heard.	● The audio wires are not plugged in completely.	● Insert the audio wires completely.
	● A power supply transformer or motor in another equipment is installed near this equipment.	● Place this equipment apart from the power supply transformer or motor of other equipments.
	● Both XLR and RCA are connected to the input terminal.	● Connect either one of them into the input terminal.
	● The RCA cable connected to the output terminal is a shield floating type	● Cables with the shield being floated may induce noises. For ones with an earth cable, it may improve if the earth cable is connected. For ones without an earth cable, connect using a different cable.

Specifications

Input Impedance	47kΩ/1kHz
Channel Separation	100dB~
Frequency Characteristics	10~20kHz(±2dB)
Input Terminal	XLR (Balance) x 1, RCA (Unbalance) x 1
Output Terminal	XLR (Balance) x 1, RCA (Unbalance) x 1
Maximum External Dimensions	174mm(W) x 93mm(H) x 191mm(D)
Weight	2.1kg

● Dimensions and specifications are subject to change without notice in order to improve it.

Phasemation

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