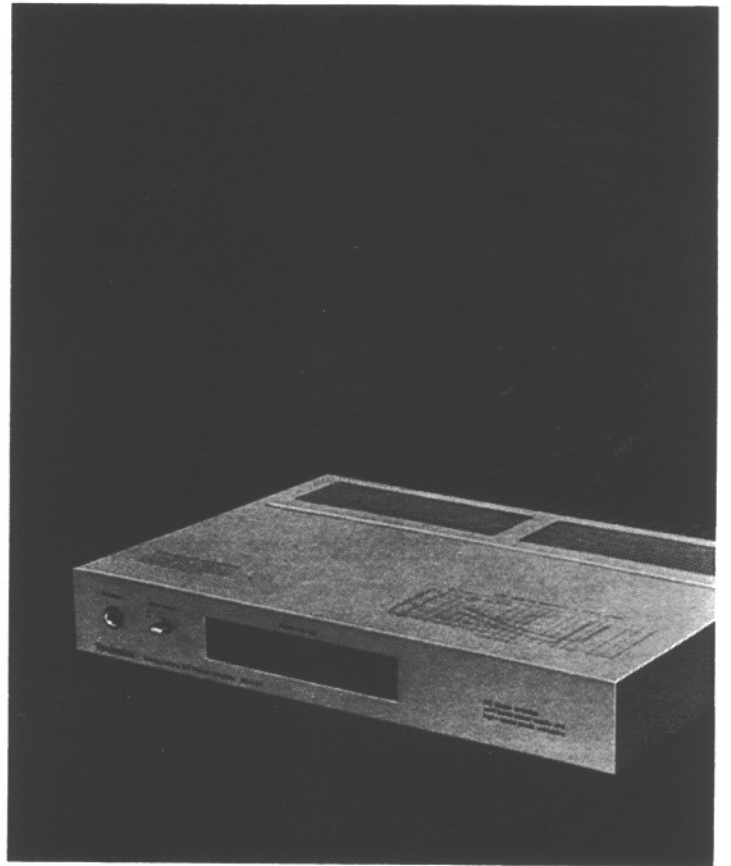


Technics

Stereo/Mono DC Power Amplifier

SE-C01

OPERATING INSTRUCTIONS



Before operating this unit, please read these instructions completely.

Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world. We feel certain you will get maximum enjoyment from

this new addition to your home. Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

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PRODUCT SERVICE

WARNING CONCERNING REMOVAL OF COVERS

This unit should be serviced by qualified technicians only. No service information is provided for customers. Should your "Technics" product ever require servicing, refer to the Directory of Authorized Service Centers or your franchised "Technics" dealer for detailed instructions.

LOCATION OF SERIAL NUMBER

You will find the serial number located on the bottom of the unit.

The model number of this product may be found on the bottom of the unit; and the serial number, on the label affixed to the bottom of the unit.

You should note the model and serial numbers of this unit in the space provided and retain this booklet as a permanent record of your purchase to aid in identification in the event of theft.

MODEL NUMBER: _____ SERIAL NUMBER: _____

**WARNING : TO PREVENT FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

FOR LONG AND SAFE USE OF THIS UNIT

1) USE AN ORDINARY HOUSEHOLD AC POWER SOURCE

- Use from an AC power source of high voltage, such as for air conditioners, is very dangerous.

Be extremely careful not to make a connection to the electrical outlet for a large air conditioner or central-heating unit which uses high voltage, because there is the possibility of fire.

- A DC power source cannot be used.

Be sure to check the power source carefully, especially on a ship or other place where DC is used.



2) CONNECTION AND DISCONNECTION OF THE POWER CORD PLUG

- Wet hands are dangerous.

A dangerous electric shock may result if the plug is touched by wet hands.

- Don't pull the power cord.

Always grasp the plug; never pull the cord itself.



FOR LONG AND SAFE USE OF THIS UNIT

(continued)

3) NEVER ATTEMPT TO REPAIR OR RECONSTRUCT THIS UNIT

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidentally touched.



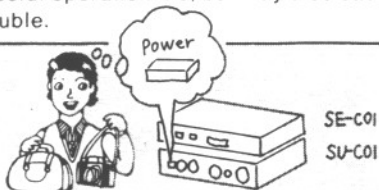
4) FOR FAMILIES WITH CHILDREN

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles such as coins, needles, screwdrivers, etc. are inserted into this unit.



5) TURN OFF AFTER USE

If the unit is left for a long time with the power on, this will not only shorten its useful operation life, but may also cause other unexpected trouble.



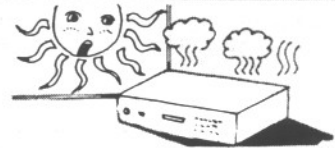
6) IF WATER IS SPILLED ON THE UNIT

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.



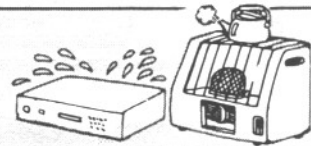
7) PLACE THE UNIT WHERE IT WILL BE WELL VENTILATED, AND AWAY FROM DIRECT SUNLIGHT

Place this unit at least 10 cm (4") away from wall surfaces, etc., and away from direct sunlight.



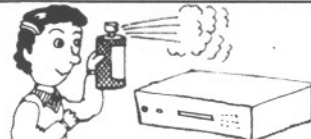
8) KEEP THE UNIT AWAY FROM STOVES, ETC.

Heat can damage the external surfaces as well as internal circuits and components.



9) AVOID SPRAY-TYPE INSECTICIDES

Insecticides might cause cracks or "cloudiness" in the cabinet and plastic parts of this unit. The gas used in such sprays might, moreover, be ignited suddenly.



10) NEVER USE ALCOHOL OR PAINT THINNER

These and similar chemicals should never be used, because they may damage the finish.

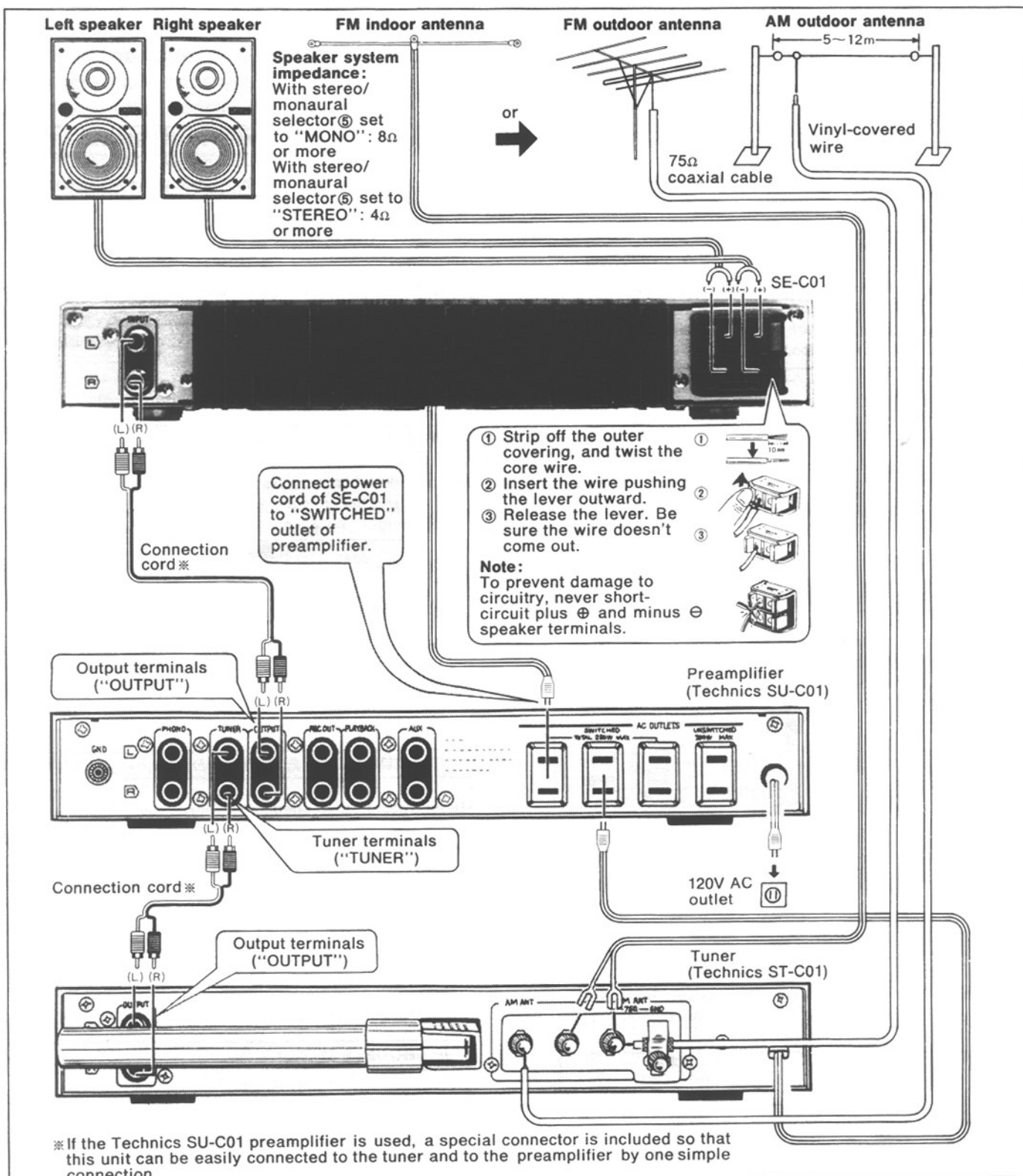
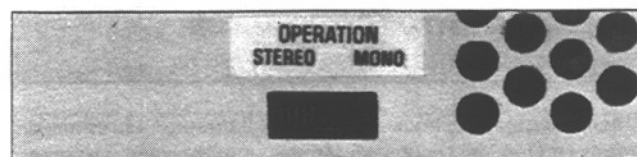


IF TROUBLE OCCURS

If, during operation, the sound is interrupted or indicator no longer illuminates, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.

STEREO SYSTEM COMPONENTS AND THEIR CONNECTIONS

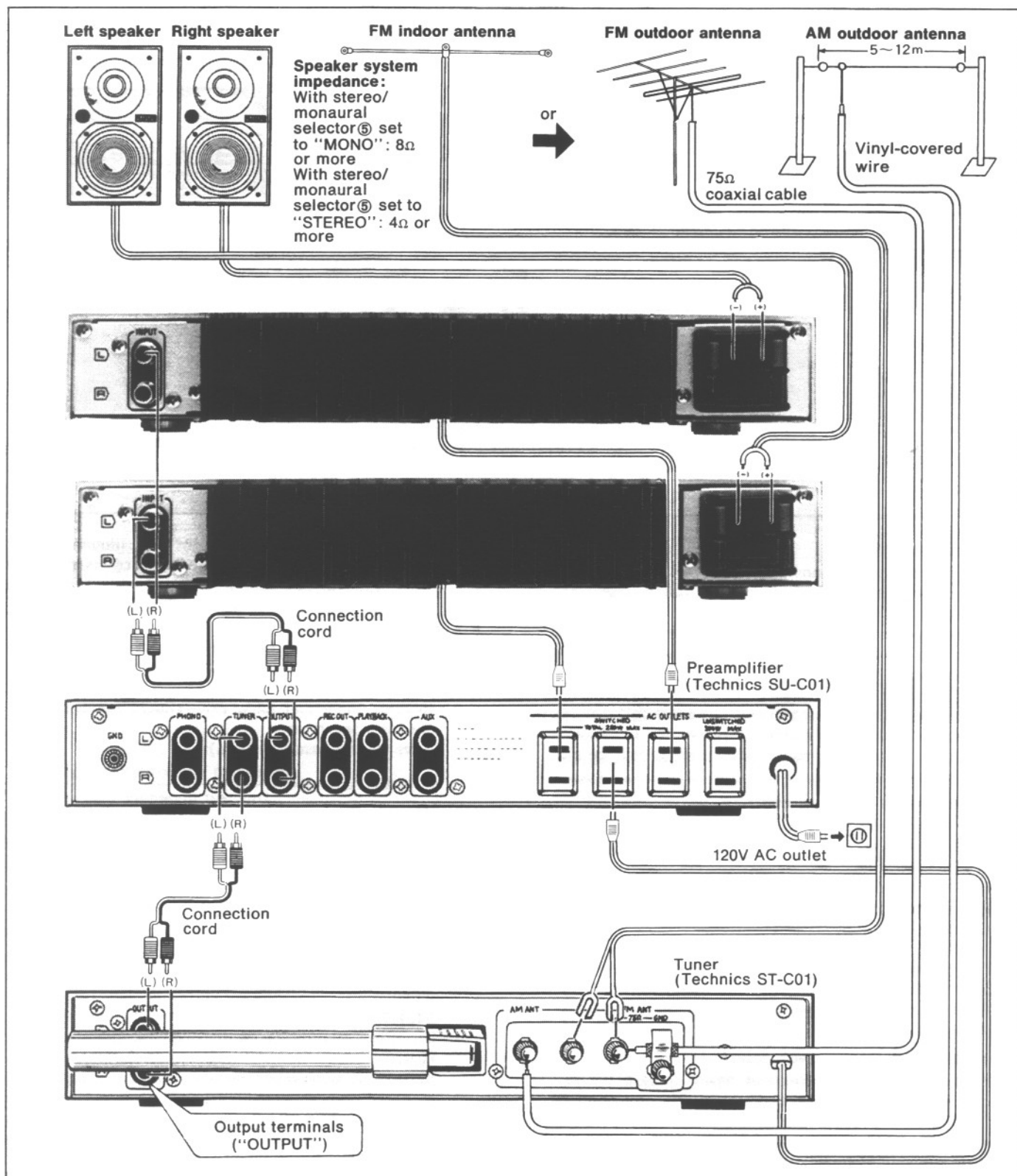
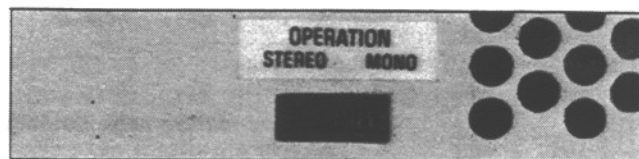
- 1** When this unit is used as a stereo power amplifier:
Be sure to set the stereo/monaural selector ⑤ on the bottom of this unit to the "STEREO" position.



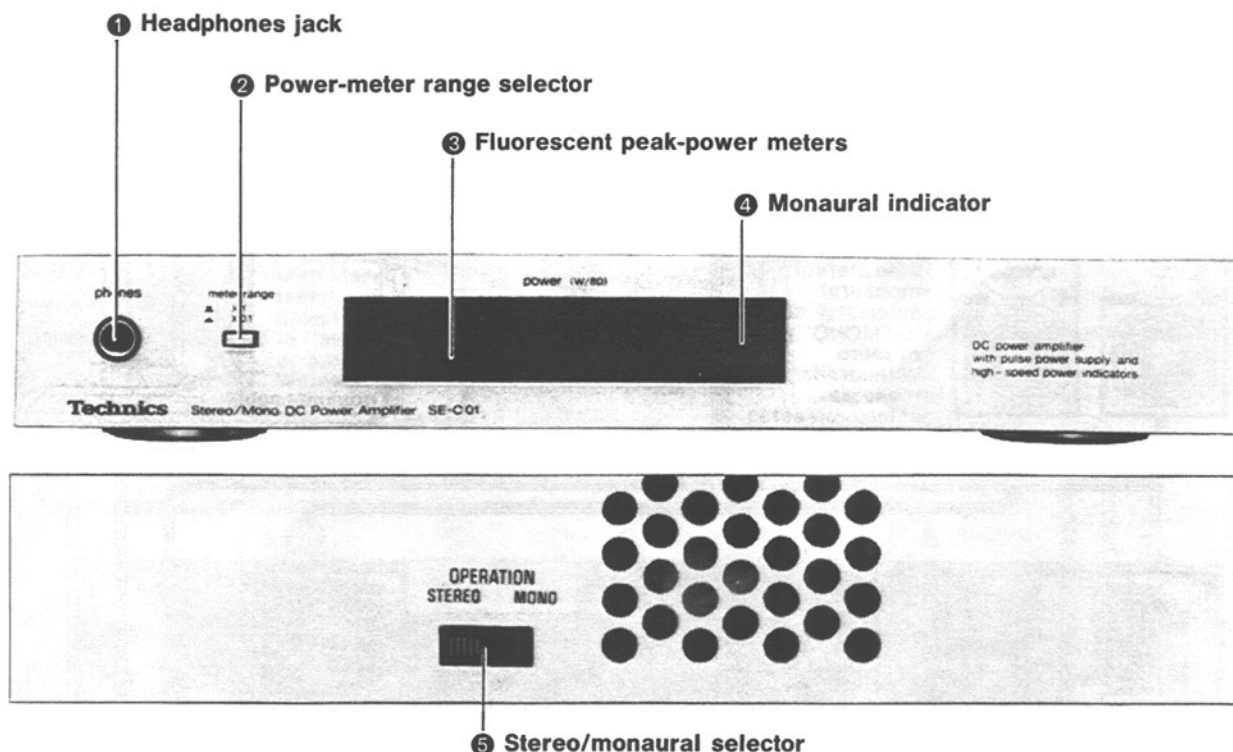
※ If the Technics SU-C01 preamplifier is used, a special connector is included so that this unit can be easily connected to the tuner and to the preamplifier by one simple connection.

2 When this unit is used as a monaural power amplifier:

Be sure to set the stereo/monaural selector ⑤ on the bottom of this unit to the "MONO" position.



FRONT PANEL CONTROLS AND THEIR FUNCTIONS



① Headphones jack

Use headphones with an impedance of 4~16Ω. The sound will not be heard when headphones are connected.

Notes:

1. Be sure to set the volume control of the preamplifier to the minimum position before connecting headphones.
2. If headphones are used with the stereo/monaural selector⑤ set to the "MONO" position, the left and right signals of the terminal are emitted in opposite phase, resulting in sound which seems strange and disharmonious.

② Power-meter range selector

This selector is used for changing the sensitivity of the output meters.

×1 (1 → 1):

The output of this unit is indicated as it is in the meter. For example, when the output is 30W, the pointer indicates 30W.

×0.1 (1 → 0.1):

The output of this unit increased by 10 times is indicated by the meter.

For reading the actual value, reduce the indication of the meter to 1/10.

③ Fluorescent peak-power meters

These meters indicate the peak power value of the output level from the speaker systems. The one marked "left" is for indication of the left channel, and that marked "right" is for the right channel. And, if the stereo/monaural selector⑤ is set to the "MONO" position,

only the side marked "right" will illuminate.

When the power-meter range selector② is set to the "×0.1" (1 → 0.1) position, note that the displayed value should be read as 1/10 of the indicated value.

Note:

If speaker systems with an impedance of 8 ohms are connected, the indicated value can be directly read as it is, without modification. If, however, the impedance is 16 ohms, the actual output value should be read as 1/2 of the indicated value.

(Refer to the formula below.)

$$\text{Actual output} = \frac{\text{Indicated meter value} \times 8 (\Omega)}{\text{Speaker impedance} (\Omega)}$$

④ Monaural indicator

This indicator illuminates when the stereo/monaural selector⑤ is set to the "MONO" position, thus indicating monaural operation.

⑤ Stereo/monaural selector

This switch is used for selection of the operation mode (stereo or monaural) when this unit is used for ordinary stereo operation or as a high-output monaural power amplifier.

STEREO:

Set to this position for ordinary stereo operation.

MONO:

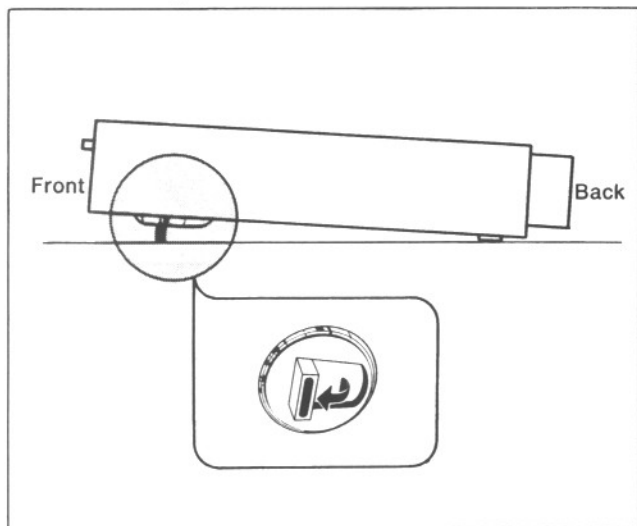
Set to this position to use this unit as a high-output monaural power amplifier (when it is necessary to obtain additional dynamic range for low-efficiency speaker systems, or, for professional use, when it is necessary to have even higher output).

POWER SUPPLY

Connect the power cord of this unit to the power outlet of the pre-amplifier, which will permit the power of this unit to be turned on and off when the power to the pre-amplifier is turned on and off. (If the SU-C01 preamplifier is used with this unit, make the connection to the power outlet marked "SWITCHED.")

TO RAISE THE FRONT

The front of this unit can, if desired, be raised for easier operation, by using the feet at the front left and right, as shown in the figure below.



MAINTENANCE OF EXTERNAL SURFACES

- To clean, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth soaked in a detergent (such as used for washing dishes; diluted to 1/5 or 1/6 strength), and then wring the cloth well. Wipe once again with a soft, dry cloth.
- Never use chemicals such as alcohol, paint thinner and benzine, nor a chemically-treated cloth to clean this unit because the finish may be damaged or lose its luster.

TECHNICAL SPECIFICATIONS

POWER AMPLIFIER SECTION

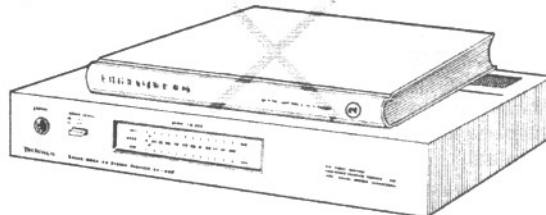
Rated minimum sine wave RMS power output	
20 Hz~20 kHz	
both channels driven	
0.03% total harmonic distortion	
	40W per channel (8 ohms)
20 Hz~20 kHz both channels driven	
mono (BTL) driven	
0.05% total harmonic distortion	
	55W per channel (8 ohms)
1 kHz continuous power output	
both channels driven	
	45W per channel (8 ohms)
	mono (BTL) 60W per channel (8 ohms)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.03% (8/4 ohms)
half power at 20 Hz~20 kHz	0.008% (8 ohms)
half power at 1 kHz	0.005% (8 ohms)
Intermodulation distortion	
	0.03%
Frequency response	
	20 Hz~20 kHz, +0 dB, -0.1 dB
	DC~100 kHz, -1 dB
S/N (IHF, A)	
	110 dB
Residual hum and noise	
	0.1 mV
Damping factor	
	40 (8 ohms)
Input sensitivity and impedance	
	1 V/47 kilohms
Load impedance	
mono (BTL)	4~16 ohms
	8~16 ohms

GENERAL

Power consumption	202W (UL), 293 VA (CSA)
Power supply	AC 120V 60 Hz
Dimensions (W×H×D)	297 × 49 × 250 mm
	(11-11/16" × 1-15/16" × 9-27/32")
Weight	3.5 kg.
	(7.7 lb.)

FOR BETTER HEAT DISSIPATION

Do not place anything on top of the SE-C01 power amplifier which will block the ventilation holes. Place this unit where surrounding ventilation is good.



ACCESSORIES

Stereo pin-type cord 1

TROUBLE SHOOTING GUIDE

Before requesting service for this unit, check this table to determine if the problem can be solved as described below. If the problem still persists after making these checks, or if there are symptoms of malfunction not described in this table, it is recommended that you consult the store where this unit was purchased or your local Service Center (see list included) for further information and assistance.

Note:

The information shown in this table is based upon the use of this unit in combination with the Technics SU-C01 and ST-C01.

Problem	Probable cause(s)	Suggested remedy
The peak-power meter indicator always illuminates.	The power cord of this unit is connected, incorrectly, to an ordinary household power outlet or to the "UNSWITCHED" power outlet of the amplifier.	Make the connection to the power outlet marked "SWITCHED."
No sound is heard when the power is turned on.	The power cord plug is not completely inserted.	Confirm that the power cord plug is connected completely.
	The power supply fuse has failed.	Request the store where this unit was purchased, or a Service Center, to replace the fuse.
	Connections are incomplete or incorrect to the speaker systems, the tuner, the amplifier, etc.	Check to be sure that all connection wires are correctly connected.
	The setting of the input selector of the amplifier is not correct.	Check to be sure that the selector is set to the correct position.
	The tape-monitor switch of the amplifier is set, incorrectly, to the "tape" position.	Except for tape playback, set the tape-monitor switch to the "source" (A → B) position.
	Headphones are connected.	Disconnect the headphones from this unit.
When listening to stereo sound, each sound of the various musical instruments is not heard from its correct position.	The positive (+) and (−) negative connections of the speaker connection wires are reversed.	Reconnect the speaker connection wires so that the positive and negative connections are correct.
When listening to stereo sound, the left and right sounds are reversed.	The left and right connections of the speaker connection wires are reversed.	Check the connections of the speaker connection wires and make them correctly.
	The left and right connections of the connection wires connected to other equipment are reversed.	Check the connections of the connection wires to other equipment and make them correctly.
A low-pitched noise ("hum" or "buzz") is heard.	The power cord or a fluorescent light, etc., is near the connection wires.	- Try separating this unit and the electric appliance as far as possible. - Reverse the connection of the power cord plug.
Sound is not heard from the speaker system on one side.	The speaker connection wires are disconnected.	Check and correct the connections of the speaker connection wires.
	The balance control of the amplifier is not set to the center position.	Set the mark on the balance control to the center position.
The volume level for a radio broadcast is different from that for disc play.	The strength of the broadcast signal is not the same as the output from the record player.	Use the volume control of the amplifier to adjust the volume.
While listening, sound is suddenly no longer heard. (Indication lamps of other equipment are still illuminated.)	A DC component is mixed with the input.	Check the connections to other equipment (especially the speaker connection terminals, etc.), and, if still no sound is heard, request service from the store where the unit was purchased or from your local Service Center.

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