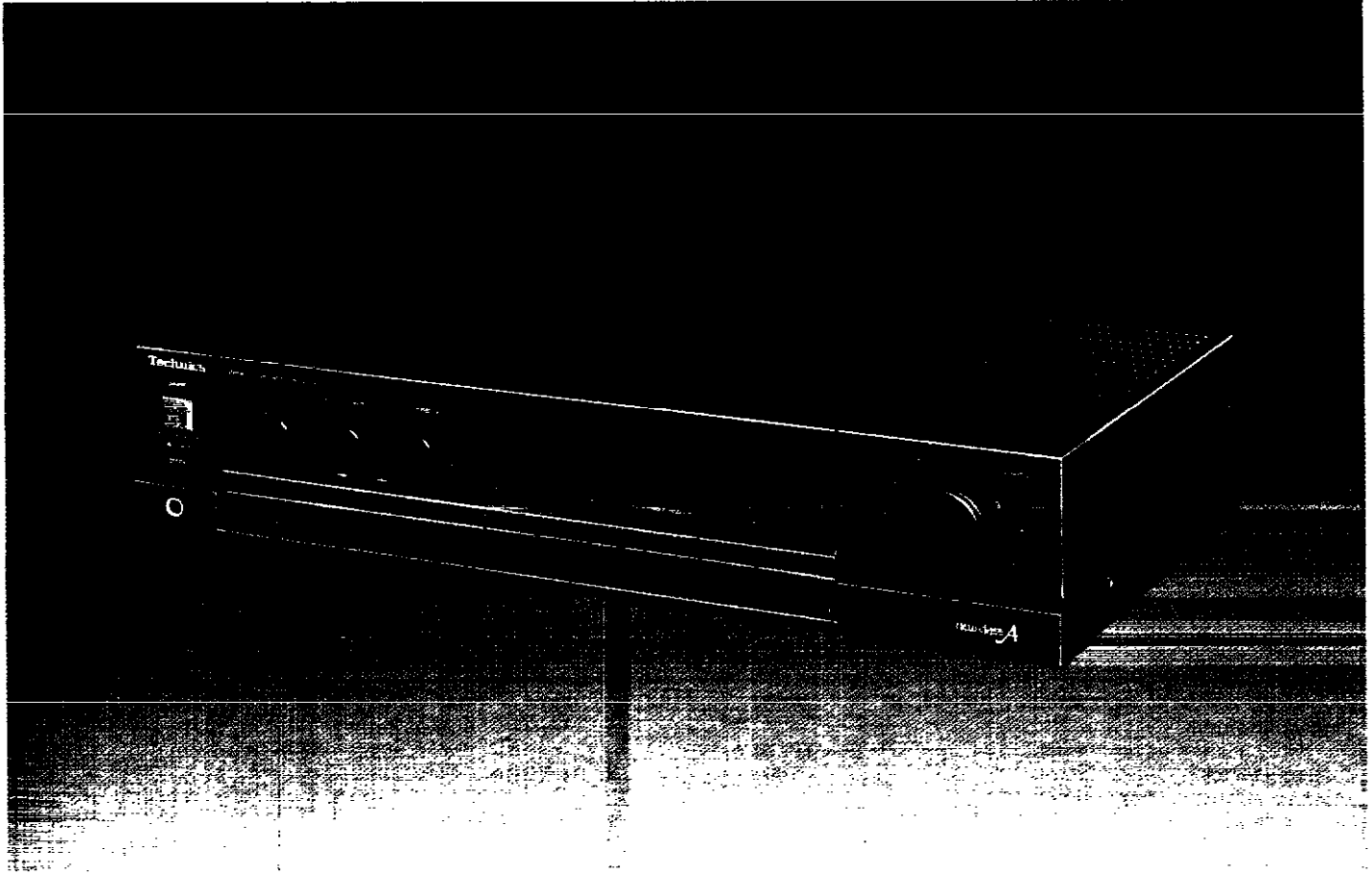


Technics

Stereo Integrated Amplifier
SU-600

OPERATING INSTRUCTIONS



These instructions also apply to units of different colour

Notes:

- Specifications differ according to the area code.
- The "EK" area code, for example, indicates United Kingdom specifications.
- The "EK" indication is shown on the packing case and serial number tag.

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

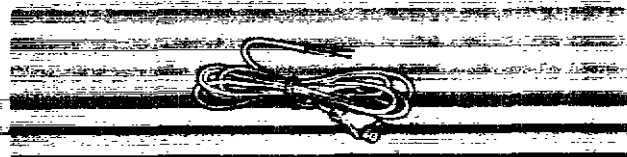
from this new addition to your home. Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

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Accessory

- AC power supply cord
(Refer to page 4.)



Technical Specifications

(DIN 45 500)

■ AMPLIFIER SECTION

20 Hz~20 kHz continuous power output both channels driven	2 × 30W (8Ω)
1 kHz continuous power output both channels driven	2 × 50W (8Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.07% (8Ω)
half power at 1 kHz	0.03% (8Ω)
Intermodulation distortion	
rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.05%
Power bandwidth	
both channels driven, -3 dB	10 Hz~25 kHz (8Ω, 0.05%)
Damping factor	50 (8Ω)
Input sensitivity and impedance	
PHONO	2.5 mV/47kΩ
TUNER, CD/AUX	150 mV/22kΩ
TAPE/EXT	150 mV/22kΩ
PHONO maximum input voltage (1 kHz, RMS)	150 mV
S/N	
rated power (8Ω)	
PHONO	71 dB (IHF, A: 72 dB)
TUNER, CD/AUX, TAPE/EXT	90 dB (IHF, A: 98 dB)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
TUNER, CD/AUX, TAPE/EXT	5 Hz~70 kHz (-3 dB)

Tone controls

BASS	50 Hz, +10 dB ~ -10 dB
TREBLE	20 kHz, +10 dB ~ -10 dB
Loudness control (volume at -30 dB)	50 Hz, +9 dB
Output voltage and impedance	
REC OUT	150 mV
Channel balance, CD/AUX 250 Hz~6,300 Hz	±1 dB
Channel separation, AUX 1 kHz	45 dB
Headphones output level and impedance	470 mV/330Ω
Load impedance	
MAIN or REMOTE	4Ω~16Ω
MAIN and REMOTE	8Ω~16Ω

■ GENERAL

Power consumption	250W
Power supply	AC 50 Hz/60 Hz, 240V
Dimensions (W×H×D)	430 × 97 × 240 mm (16-15/16" × 3-13/16" × 9-7/16")
Weight	5.0 kg (10.9 lb.)

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

Suggestions for Safety

■ Use a standard electrical AC wall outlet

1. **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.

2. **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.

■ Connection and removal of the power cord plug

1. **Wet hands are dangerous.**

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

2. **Don't pull the power cord.**

Always grasp the plug; never pull the cord itself.

■ 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.

■ 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 through the ventilation holes, etc. of this unit.

■ 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.

■ 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.

■ 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. Be careful that curtains and similar materials do not obstruct the ventilation holes.

■ Keep the unit away from heaters, etc.

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

■ 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.

■ 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 indicators no longer illuminate, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.

For United Kingdom

("EK" area code model only)

The "EK" indication is shown on the name plate.

Important

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Connections

"TUNER" terminals

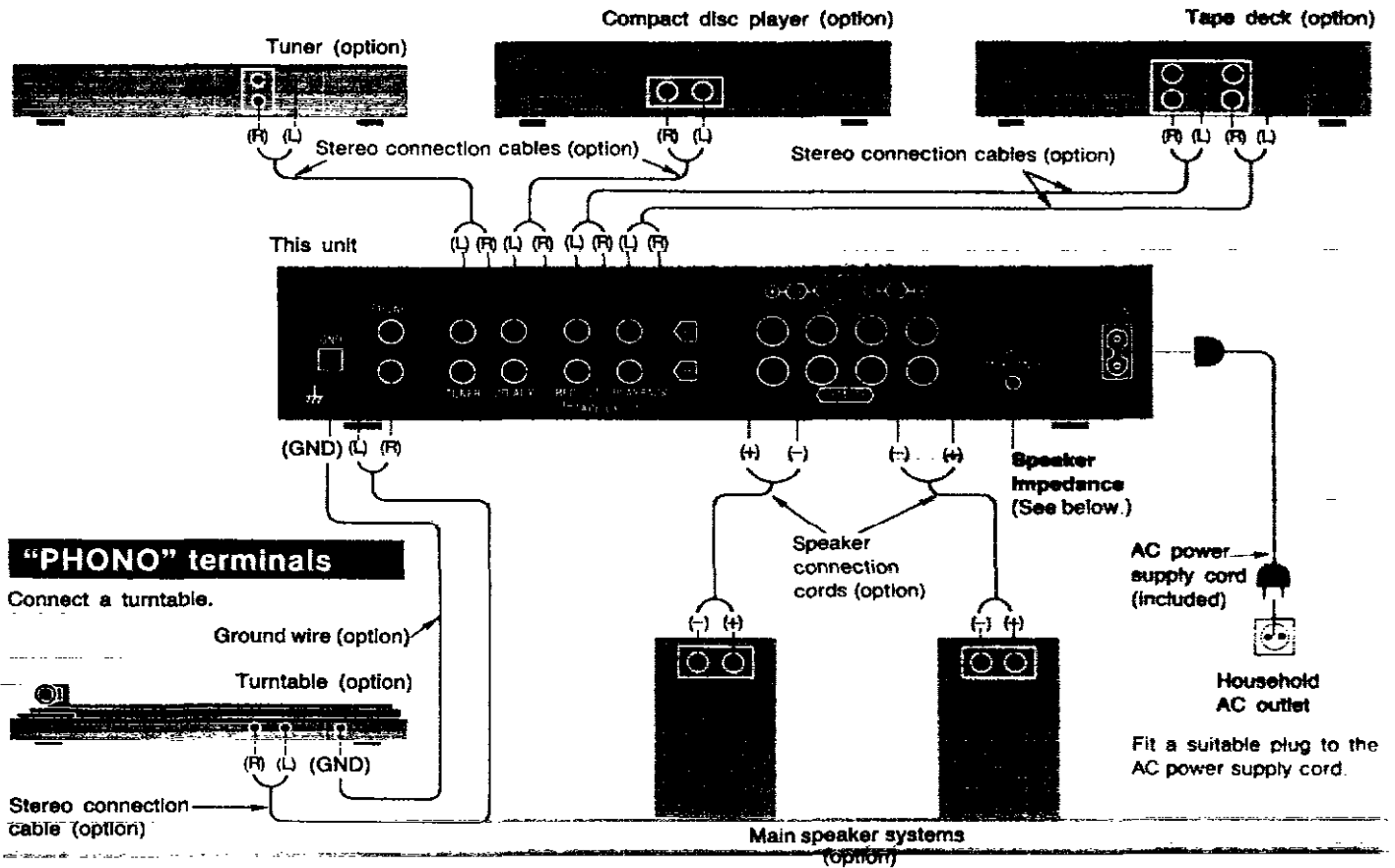
Connect a tuner.

"CD/AUX" terminals

Use these terminals to connect a compact disc player (digital audio disc), or tape deck (playback only).

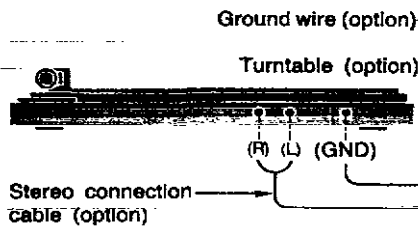
"TAPE/EXT" terminals

Connect an audio tape deck.



"PHONO" terminals

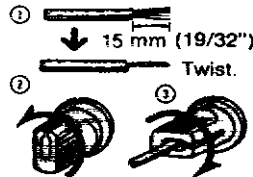
Connect a turntable.



Speaker terminals ("SPEAKERS")

■ Connection of speaker wires

- ① Strip off the outer covering, and twist the center conductor.
- ② Turn completely to the left.
- ③ Insert wire and turn completely to the right. Pull wire to insure a proper connection.



Note:

To prevent damage to circuitry, never short-circuit plus (+) and minus (-) speaker terminals.



■ Remote speaker terminals ("REMOTE")

For connection to a second pair of speakers.

Speaker impedance

Set to the position corresponding to the impedance of the speaker systems being used. If a speaker system with an impedance value outside these ranges is connected, low output, protection circuit activation or amplifier damage may occur.

■ If either the main or the remote speaker systems are used:

- 8-16Ω (I → II): For speaker impedance of 8-16Ω.
- 4-8Ω (II → III): For speaker impedance of 4-8Ω.

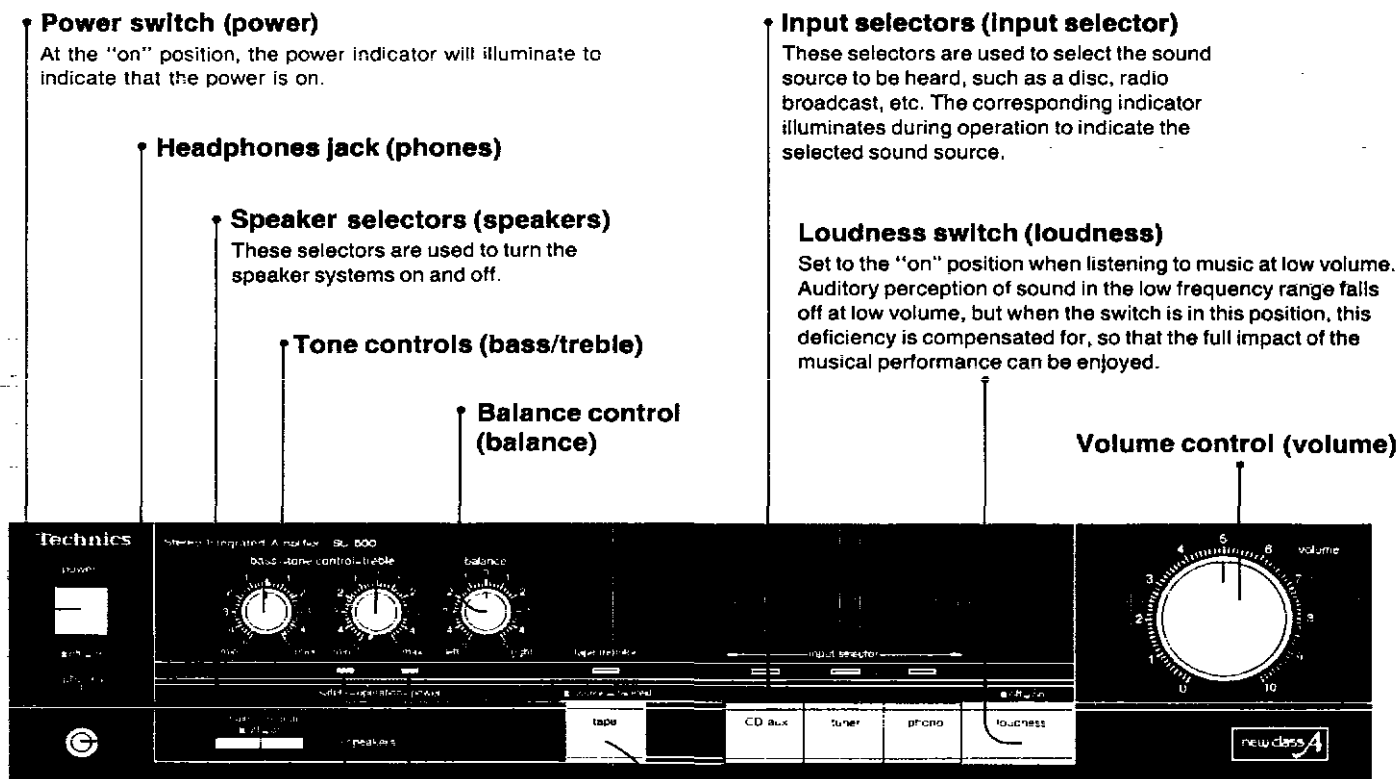
■ If both main and remote speaker systems are used:

- 16Ω (I → II): Set to this position if the impedance of both speaker systems is 16 ohms.
- 8Ω (II → III): Set to this position if the impedance of both speaker systems is 8 ohms, or if the impedance of one speaker system is 8 ohms and the impedance of the other speaker system is 16 ohms.

Note:

Be sure to make this setting before switching the power "on".

Front Panel Controls and Their Functions



Power switch (power)

At the "on" position, the power indicator will illuminate to indicate that the power is on.

Headphones jack (phones)

Speaker selectors (speakers)

These selectors are used to turn the speaker systems on and off.

Tone controls (bass/treble)

Balance control (balance)

Input selectors (input selector)

These selectors are used to select the sound source to be heard, such as a disc, radio broadcast, etc. The corresponding indicator illuminates during operation to indicate the selected sound source.

Loudness switch (loudness)

Set to the "on" position when listening to music at low volume. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

Volume control (volume)

Power Indicator (power)

Safety operation indicator (safety)

This indicator illuminates after the power is switched on and the unit is in the operation condition. If the unit detects an abnormal condition in the circuitry, such as a DC component in the output, etc., or if the positive (+) and negative (-) connection wires from the speaker terminals are short-circuited, the protection circuitry will function to stop the unit's operation and this indicator will no longer illuminate. If this occurs, switch off the power, and then, after finding and correcting the cause of the problem, switch the power switch on once again.

Tape-monitor selector (tape monitor)

source (A → B):

Set to this position to listen to a phono disc or radio broadcast, or to listen to equipment connected to the auxiliary-input terminals ("CD/AUX").

tape/ext (B → A):

Set to this position to playback or monitor the sound from a tape deck. The indicator above the tape-monitor selector illuminate to indicate tape.

Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlined below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

Operation

1 "on" (I → II)

Before turning the power on, make sure the volume control is set to the low position.

2 Select the main and/or remote speaker systems to be used.

3 "source" (III → IV)

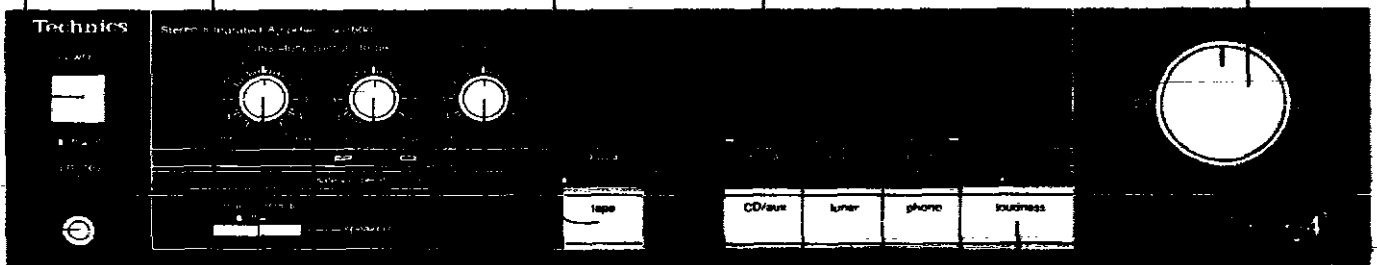
To listen to tape set to the "tape/ext" position.
(The indicator above the tape-monitor selector is illuminated.)

4 Select the sound source.

CD/aux:
Press this button to listen to equipment connected to the "CD/AUX" terminal.
tuner:
Press this button to listen to radio broadcasts.
phono:
Press this button to listen to phono discs.

5 Follow the instructions accompanying your equipment for set-up and operation of the selected sound source.

6 Adjust the volume level.



Adjust tone quality as desired.
Low-range sound is adjusted with bass control ("bass"), and high-range sound with treble control ("treble").

Adjust the left/right volume balance.

While listening to an AM broadcast or a monaural FM broadcast, balance the sound so that it seems to be heard from the center, between the speakers.

Set to "on" position when listening at low volume level.

When listening through headphones

Headphones (option)

If sound from the speakers is not wanted, set the speaker selectors to the "off" position.

Note:

Set the volume control to the minimum ("0") position before connecting headphones.



After use

After listening is finished, power switches of all equipment should be turned "off".

Tape recording

1. Follow above steps 1 through 6.
2. Operation of tape deck connected to the "TAPE/EXT" terminals.
3. By using the controls on the tape deck, adjust the recording level. Then begin recording.

Tape-to-tape recording

By using two tape decks, tape-to-tape recording can be performed.

1. Connection

Connect a playback tape deck to the "CD/AUX" terminal on the rear panel of this unit. (Refer to page 4.)

2. Operation

- According to step 4 above, select "CD/aux", and playback, using a playback tape deck according to step 5.
- Begin recording.

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized service centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

	Probable cause(s)	Suggested remedy
Problems noted at all times	Connections are incomplete or incorrect to the speaker systems, etc.	• Check to be sure that all connection wires are correctly connected.
	The incorrect input selector has been pressed.	• Check to be sure that the correct selector is pressed.
	The tape-monitor selector is incorrectly set to the "tape" position.	• Except for tape playback, set the tape-monitor selectors to the "source" 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.
	The left and right connections of the speaker connection wires are reversed.	• Check the speaker connection wires and connect them correctly if necessary.
	The left and right connections of the connection cables connected to other equipment are reversed.	• Check to be sure the connection cables to other equipment and connect them correctly if necessary.
	The power cord or a fluorescent light, etc., is near the connection wires.	• Try separating the amplifier from the electric appliance as far as possible.
	The connection of the ground wire is incorrect or incomplete.	• Check to be sure that the grounding connection is correct.
	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 protection circuitry has functioned because the positive and negative speaker connection wires are "shorted".	• Switch off the power, and, after determining and correcting the cause, switch on the power once again.	

Maintenance

To clean this unit, use a soft, dry cloth.

If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or a weak detergent solution.

Wring the cloth well before wiping the unit.

Wipe once again with a soft, dry cloth.

Never use alcohol, paint thinner, benzine, nor a chemically treated cloth to clean this unit.

Such chemicals may damage the finish of your unit.

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