

Technics

Stereo Integrated Amplifier SU-A700MK2 SU-A600MK2

Operating Instructions



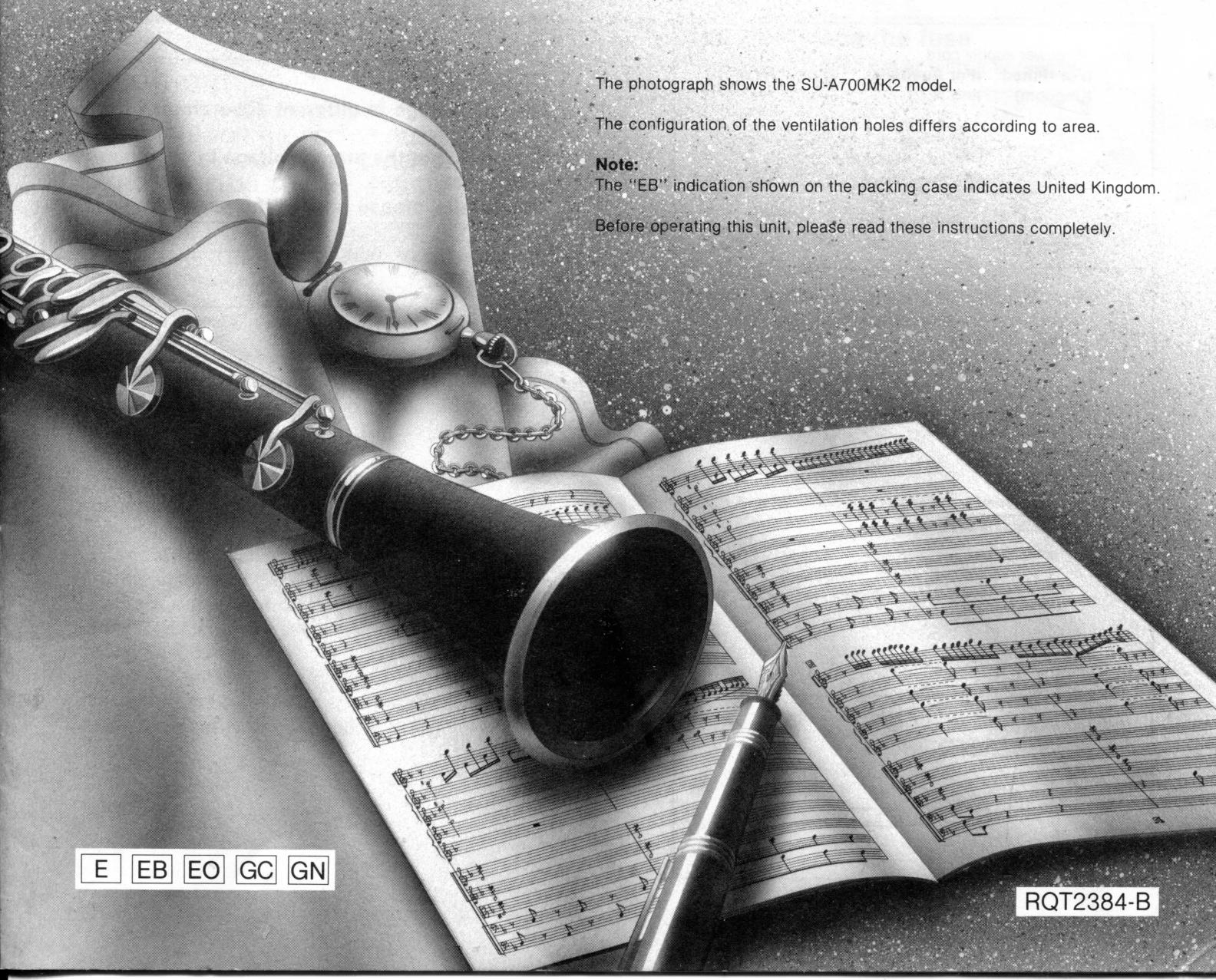
The photograph shows the SU-A700MK2 model.

The configuration of the ventilation holes differs according to area.

Note:

The "EB" indication shown on the packing case indicates United Kingdom.

Before operating this unit, please read these instructions completely.



E EB EO GC GN

RQT2384-B

Dear Customer

Thank you for purchasing this Technics product.
For optimum performance and safety, please read
these instructions carefully.

These operating instructions are applicable to the SU-A700MK2 and SU-A600MK2 models.

These operating instructions, however, fundamentally explain the operation of SU-A700MK2 model.

Furthermore, the differences between the SU-A700MK2 and SU-A600MK2 are as shown in the table below.

(○ = included, × = not included)

	SU-A700MK2	SU-A600MK2
Remote control transmitter	○	×
Batteries	○	×



Please check and identify the supplied accessories

<input type="checkbox"/> AC power supply cord..... (For United Kingdom)	1
(VJA0733)	
<input type="checkbox"/> Power plug adaptor (SJP5213-2). (Not supplied for United Kingdom, Europe, Australia and N.Z.)	1
(RJA0036-K)	
<input type="checkbox"/> Remote control transmitter (RAK-SU129WH)	1
SU-A700MK2 only	
(RJA019-2K)	
<input type="checkbox"/> Batteries (UM-4, "AAA", R03)..... SU-A700MK2 only	2
(RJA019-2K)	

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(For areas except United Kingdom, Europe, Australia and N.Z.)

CAUTION:

The AC voltage is different according to the area.
Be sure to set the proper voltage in your area before use.
(For details, please refer to the page 7.)

Caution for AC mains lead

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

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 appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

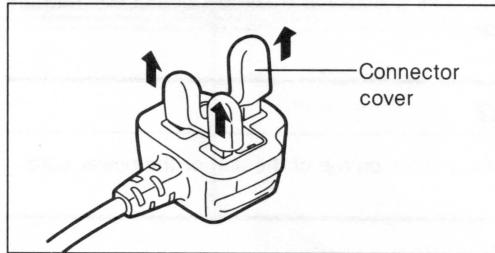
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

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

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

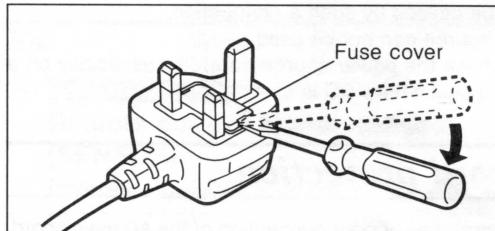
Before use

Remove the connector cover as follows.

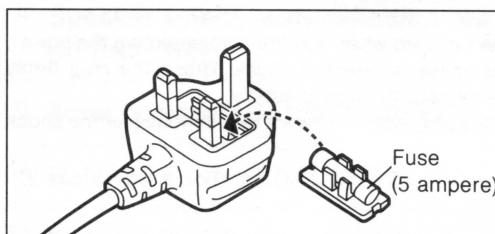


How to replace the fuse

1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



Suggestions for safety

Placement

Avoid placing the unit in areas of:

- direct sunlight
 - high temperature
 - high humidity
 - excessive vibration
 - uneven surfaces (Place the unit on a flat level surface.)
- Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.

Ventilation

- Place the unit in a well ventilated position at least 10 cms away from wall surfaces etc.
- Ensure that curtains and similar materials do not obstruct the ventilation holes.

Stacking

Never place heavy items on top of the unit or the power cord.

Voltage

- It is very dangerous to use an AC power source of high voltage such as for an air conditioner.
A fire might be caused by such a connection.
- A DC power source can not be used.
Be sure to check the power source carefully, especially on a ship or other place where DC is used.

Power cord protection

- Avoid cuts, scratches or poor connection of the AC mains cord, as this may result in fire or electric shock hazard.
Excessive bending, pulling or slicing of the cord should also be avoided.
- Do not pull on the cord when you are disconnecting the power, as this could cause an electric shock. Grasp the plug firmly when you disconnect the power supply.
- Never touch the plug with wet hands or a serious electric shock could result.

Foreign materials

- Ensure that no foreign objects, such as needles, coins, screwdrivers etc., accidentally fall into the unit or through the ventilation holes.
Otherwise, a serious electric shock or malfunction could occur.
- Be extremely careful about spilling water or liquid on/into the unit, as a fire or electric shock could occur.
(Disconnect the power plug and contact your dealer immediately if this occurs.)
- Avoid spraying insecticides onto the unit as they contain flammable gases which can be ignited.
- Insecticides, alcohol, paint thinner and similar chemicals should never be used to clean the unit as they can cause flaking or cloudiness to the cabinet finish.

Maintenance

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution.

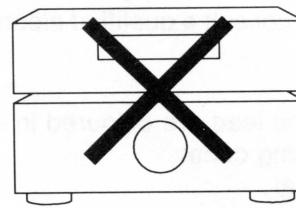
Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Service

- Never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem.
A serious electric shock could result if you ignore this precautionary measure.
- If a problem occurs during operation (the sound is interrupted, indicators fail to illuminate, smoke is detected, etc) contact your dealer or Authorized Service Center immediately.
- Disconnect the power supply if the unit will not be used for a long time. Otherwise the operation life could be shortened.

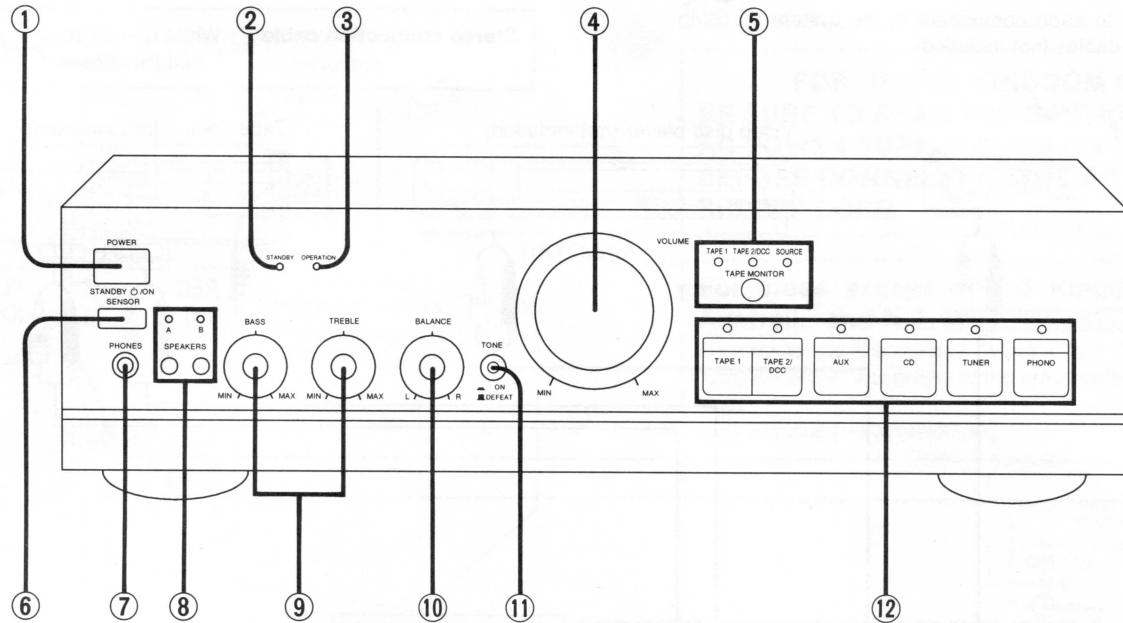
CAUTION

Do not place a tape deck or CD player on top of this unit.
Heat radiated from the top of this unit may cause damage to the tape or CD software.



NO

Front panel controls



No.	Name	Ref. page
①	Power “STANDBY /ON” switch (POWER, STANDBY /ON)	8
	Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	
②	“STANDBY” indicator (STANDBY)	—
	When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.	
③	Operation indicator (OPERATION)	—
	When the power is switched ON, this indicator illuminates after about 3 seconds when the unit is in the operating condition.	
	If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output or a short-circuit of the positive (+) and negative (-) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.	
④	Volume control (VOLUME)	8
⑤	Tape-monitor button/indicators (TAPE MONITOR)	8,10

No.	Name	Ref. page
⑥	SU-A700MK2 only Remote control signal receptor (SENSOR)	—
	Receives the signals from the remote control.	
⑦	Headphones jack (PHONES)	9
⑧	Speaker select buttons/indicators (SPEAKERS)	8
⑨	Tone controls (BASS/TREBLE)	9
⑩	Balance control (BALANCE)	9
⑪	Tone control button (TONE)	9
⑫	Input select buttons/indicators	8,10

Connections

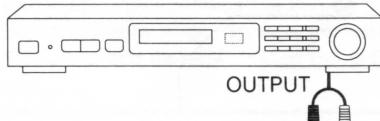
To connect to each terminal

Make connections to each component in the system by using stereo connection cables (not included).

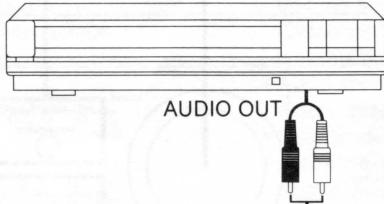
Stereo connection cable



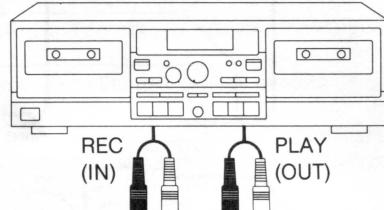
Tuner (not included)



Video disc player (not included)



Tape deck 1 (not included)



OUTPUT

AUDIO OUT

REC
(IN)

PLAY
(OUT)

GND

PHONO
D
B

TUNER

CD

AUX

TAPE 2/DCC
REC (OUT)
PLAY (IN)

TAPE 1
REC (IN)
PLAY (OUT)

REMOTE
CONTROL

Speaker terminals
See page 7.

AC IN ~
See page 7.

Only for
turntable with
ground
terminal

OUTPUT

Turntable (not included)

A "REMOTE CONTROL OUT" terminal

SU-A700MK2 only

Connect the connection cable for the remote control to a Technics tape deck and/or CD player (or CD changer) which has the appropriate remote control terminal as shown at the right.

If a tape deck is not being used, the CD player (or CD changer) can be connected directly (dotted line).

Note

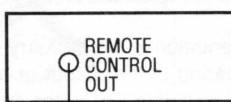
For a tape deck and/or CD player (or CD changer) with a remote control sensor, this connection is not necessary.

OUTPUT

Compact disc player (or CD changer)
(not included)

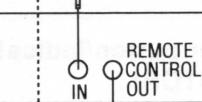
Tape deck 2 or Digital compact
cassette (DCC) (not included)

This unit



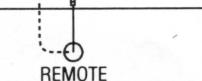
Connection cable
for remote control
(Included with tape
deck)

Tape deck
(not included)

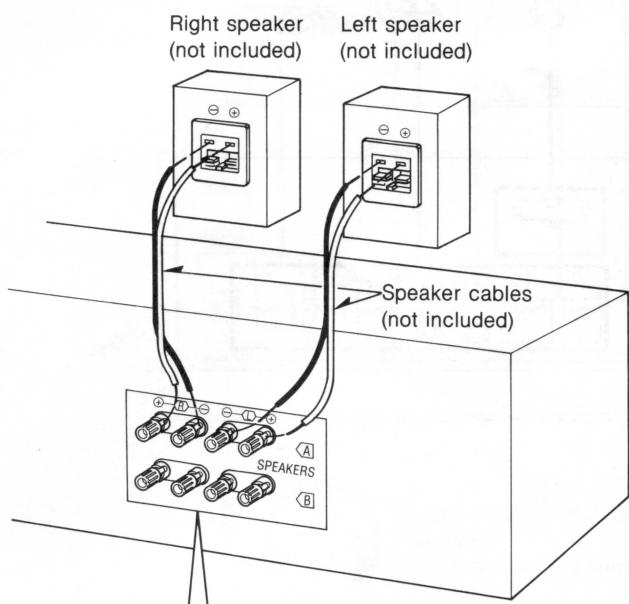


Connection cable
for remote control
(Included with
compact disc
player)

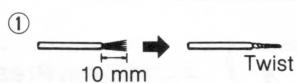
Compact disc
player
(not included)



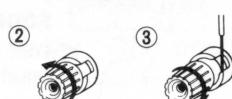
To connect the speakers



① Strip off the outer covering, and twist the center conductor.

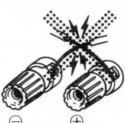


② Turn completely to the left.



③ Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

Note Be sure to only connect positive (+) cords to positive (+) terminals, and negative (-) cords to negative (-) terminals.



Note

To prevent damage to circuitry, never short-circuit the positive (+) and negative (-) speaker wires.

"B" terminals

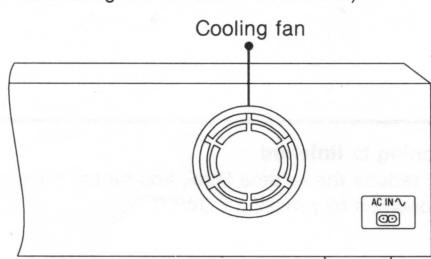
For connection to a second pair of speakers.

Speaker impedance

- When only the "A" or only the "B" terminals are used: 4–16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8–16 ohms

About the cooling fan

The cooling fan operates at high power output levels only.
(There is no cooling fan for some countries.)



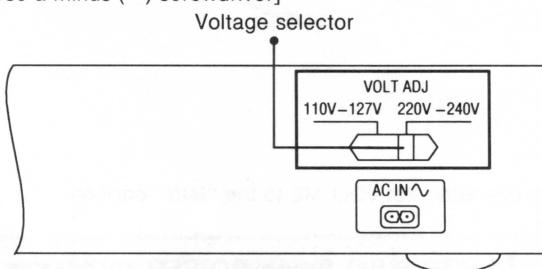
To connect the AC power supply cord

**FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE
AC POWER SUPPLY CORD ON PAGE 3
BEFORE CONNECTING THE AC POWER
SUPPLY CORD.**

**For areas except United Kingdom, Europe,
Australia and N.Z. SU-A600MK2 only**

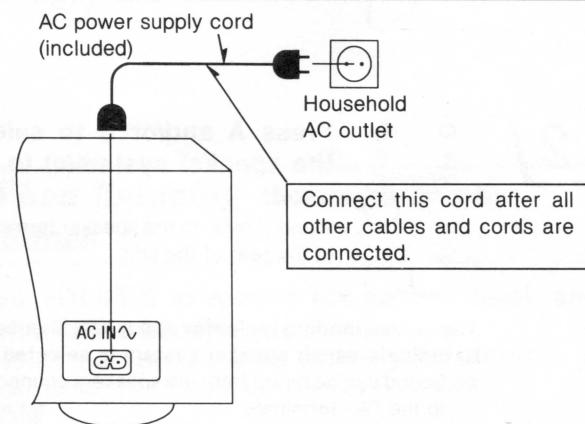
Be sure to set the voltage selector to "110 V–127 V" or "220 V–240 V" according to the area in which the unit will be used.

[Use a minus (-) screwdriver]



Note

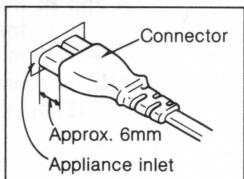
Note that this unit will be seriously damaged if this setting is not made correctly.



**(For areas except Australia and N.Z.)
Insertion of Connector**

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

However there is no problem using the unit.

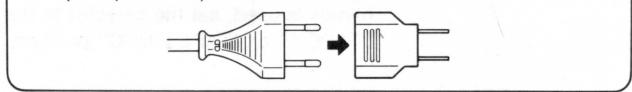


Note

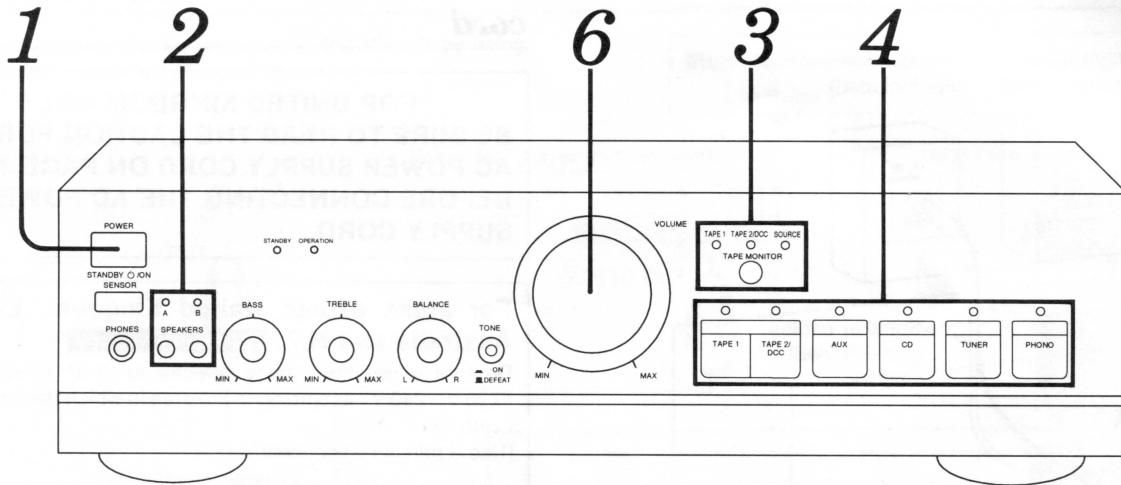
The configuration of the AC power supply cord differs according to area.

**Not supplied for United Kingdom, Europe,
Australia and N.Z.**

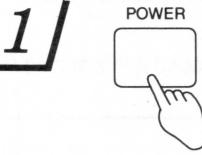
If the power plug will not fit your socket, use the power plug adaptor (included).



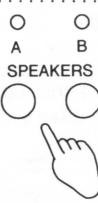
Listening to Sound



Before operation, set VOLUME to the "MIN" position.



Press POWER to switch on the power.



Press A and/or B to select the speaker system(s) to be used.

A and B refer to the speaker terminals at the rear of the unit.

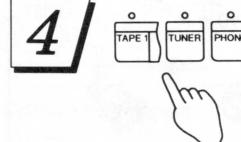
The corresponding indicator above will illuminate to indicate which speaker system is selected.

A: Sound can be heard from the speakers connected to the "A" terminals.

B: Sound can be heard from the speakers connected to the "B" terminals.

A and B: Sound can be heard simultaneously from the speakers connected to the "A" terminals and the "B" terminals.

off: No sound will be heard from the speakers.
(Both indicators will turn off.)



Press to select the desired source.

The corresponding indicator above will illuminate to indicate which button is selected.

TAPE 1: To listen to tape (TAPE 1).

TAPE 2/DCC: To listen to tape (TAPE 2) or digital compact cassette (DCC).

AUX: To listen to equipment connected to the "AUX" terminals.

CD: To listen to compact discs.

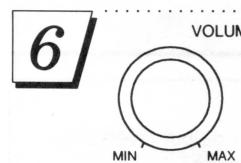
TUNER: To listen to radio broadcasts.

PHONO: To listen to phono discs.

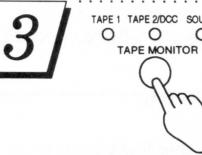


Start the desired source.

(Refer to the appropriate operating instructions for details.)



Turn VOLUME to adjust the volume level.



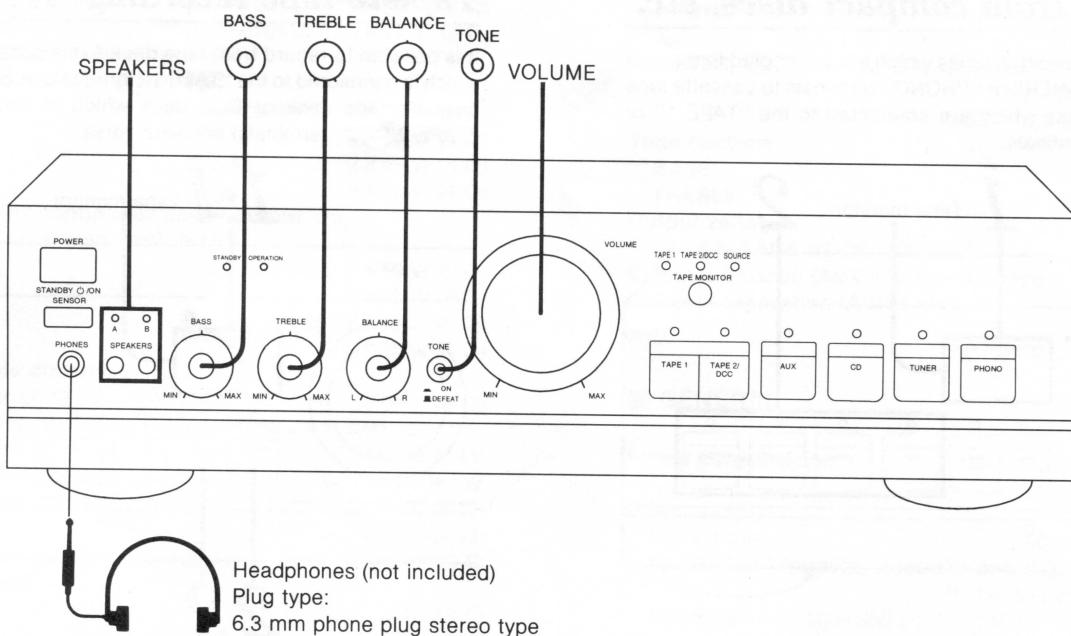
Press TAPE MONITOR so that the "SOURCE" indicator illuminates.

Note

When a graphic equalizer connected to the "TAPE 1" or "TAPE 2/DCC" terminals is used, set the selector to the "TAPE 1" or "TAPE 2/DCC" position.

After listening is finished

Be sure to reduce the volume level, and switch the power to the standby condition by pressing POWER.

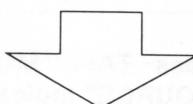


To adjust the tone quality



Set TONE to the "ON" position.

If set to the "DEFEAT" position, tone controls have no effect.



Turn BASS to adjust the low-frequency sound.

Turn TREBLE to adjust the high-frequency sound.

To adjust the sound balance



Turn BALANCE to adjust the left/right sound balance.

When listening through headphones

Use VOLUME to reduce the volume level, and connect the headphones.

If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker select indicators.

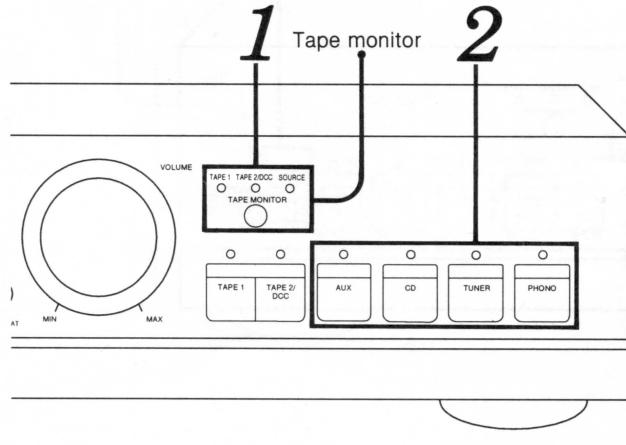
Note

Avoid listening for prolonged periods of time to prevent hearing damage.

Recording

To record from compact discs, etc.

It is possible to record from units which are connected to the rear "AUX", "CD", "TUNER" or "PHONO" terminals to cassette tape decks or DCC decks which are connected to the "TAPE 1" or "TAPE 2/DCC" terminals.



Before recording, prepare the tape deck or DCC for recording (recording level adjustment, etc.).

See the tape deck's or DCC's operating instructions for details.

1 Press TAPE MONITOR so that the "SOURCE" indicator illuminates.

2 Select the program source to be recorded.

AUX: To record from equipment connected to the "AUX" terminals.

CD: To record from compact discs.

TUNER: To record from radio broadcasts.

PHONO: To record from phono discs.

3 Begin recording.
Follow your tape deck's or DCC's operating instructions.

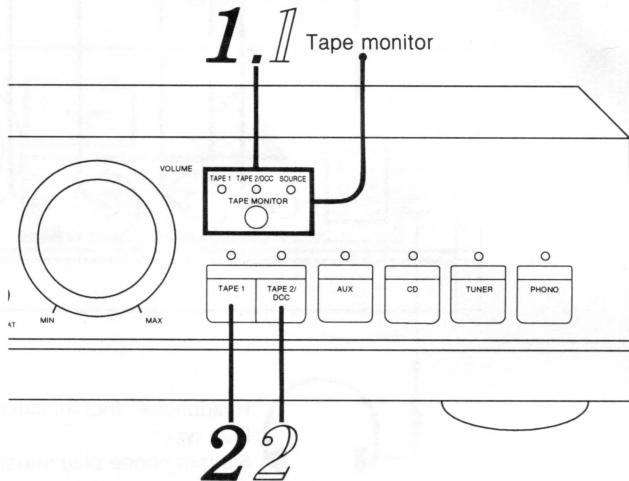
4 Begin the source to be recorded.

To check the sound recorded while recording is being made

If a cassette tape deck with 3 heads is connected to the "TAPE 1" or "TAPE 2/DCC" terminals, it is possible to check the sound being recorded onto the tape.

Tape-to-tape recording

It is possible to record from tape deck 1 (the cassette tape deck which is connected to the "TAPE 1" terminals) to tape deck 2 (the cassette tape deck or DCC deck which is connected to the "TAPE 2/DCC" terminals) and vice versa.



Preparation

- Before recording, prepare the tape deck or DCC for recording (recording level adjustment, etc.).
- See the tape deck's or DCC's operating instructions for details.
- Load tapes which have been advanced to the end of the leader tape into both decks.

To record from tape deck 2 to 1

1 Press TAPE MONITOR so that the "SOURCE" indicator illuminates.

2 Press "TAPE 2/DCC".

3 Begin tape deck 1 for recording and tape deck 2 for playback.

To record from tape deck 1 to 2

1 Press TAPE MONITOR so that the "SOURCE" indicator illuminates.

2 Press "TAPE 1".

3 Begin tape deck 2 for recording and tape deck 1 for playback.

TAPE 1 TAPE 2/DCC SOURCE
TAPE MONITOR

Press TAPE MONITOR to select the deck (tape deck 1 or 2) and set the monitor switch on the tape deck to "TAPE".



TAPE 1: when recording on tape deck 1

TAPE 2/DCC: when recording on tape deck 2

Technical specifications (DIN 45 500)

20 Hz–20 kHz continuous power output

both channels driven [SU-A700MK2] : 2×45 W (8 Ω)
 [SU-A600MK2] : 2×37 W (8 Ω)

1 kHz continuous power output

both channels driven (THD: 1%)

[SU-A700MK2] : 2×55 W (8 Ω)
 2 × 80 W (4 Ω)
 [SU-A600MK2] : 2×45 W (8 Ω)
 2 × 60 W (4 Ω)

63 Hz–12.5 kHz continuous power output

both channels driven (THD: 0.7%)

[SU-A700MK2] : 2×50 W (8 Ω)
 2 × 70 W (4 Ω)
 [SU-A600MK2] : 2×40 W (8 Ω)
 2 × 55 W (4 Ω)

Total harmonic distortion

rated power at 20 Hz–20 kHz 0.01% (8 Ω)

Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)

rated power 0.007% (8 Ω)

Residual hum and noise

1 mV

Damping factor

60 (8 Ω)

30 (4 Ω)

Headphones output level/impedance

540 mV/330 Ω

Load impedance

A or B 4–16 Ω

A and B 8–16 Ω

Input sensitivity/impedance

PHONO MM 2.5 mV/47 kΩ

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 150 mV/22 kΩ

Phono maximum input voltage (1 kHz, RMS)

MM 150 mV (150 mV, IHF '66)

S/N (rated power, 4 Ω)

PHONO MM 76 dB (78 dB, IHF '66)

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 91 dB (99 dB, IHF '66)

S/N at –26 dB power (4 Ω)

PHONO MM 68 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 70 dB

S/N at 50 mW power (4 Ω)

PHONO MM 64 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 64 dB

Frequency response

PHONO MM

RIAA standard curve ±1 dB
 (30 Hz–15 kHz)

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC

3 Hz–80 kHz (+0, –3 dB)
 +0 dB, –0.3 dB (20 Hz–20 kHz)

Tone controls

BASS

50 Hz, +10 to –10 dB

TREBLE

20 kHz, +10 to –10 dB

Output voltage

TAPE 1, TAPE 2/DCC REC OUT

150 mV

Channel balance (AUX 250 Hz–6.3 kHz)

±1 dB

Channel separation (AUX 1 kHz)

50 dB

■ GENERAL

Power consumption

[SU-A700MK2] 200 W
 [SU-A600MK2] 170 W

Power supply

For Europe 50 Hz/60 Hz AC, 230 V
 For United Kingdom, Australia and N.Z. 50 Hz/60 Hz AC, 230 V–240 V

For others 50 Hz/60 Hz AC, 110 V–127 V/220 V–240 V

Dimensions (W × H × D)

430 × 125 × 318 mm

Weight

[SU-A700MK2] : 6.7 kg
 [SU-A600MK2] : 6.1 kg

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.
3. **For areas except Europe**
 The specification values given have been measured while using a 240 V power supply.

For United Kingdom only

This apparatus was produced to BS 800.

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.

Problem	Probable cause(s)	Suggested remedy
Problems noted at all times		
No sound is heard when the power is switched ON.	The power cord plug is not completely inserted. Connections to the speakers, etc. are incomplete or incorrect. The input selector setting is incorrect. The speaker selector is set incorrectly. The tape monitor function is on. (TAPE 1 or TAPE 2/DCC indicator is illuminated)	<ul style="list-style-type: none">• Confirm that the power cord plug is connected completely.• Check to be sure that all connection wires are correctly connected.• Check to be sure that the selection of the desired sound source is made correctly.• Set it to the correct position.• When listening to a source other than a tape or DCC, press TAPE MONITOR so that the "SOURCE" indicator illuminates.
When listening to stereo sound, the sound lacks depth (i.e. thin bass, tinny sound).	One of the speakers is connected out of phase [(+) \rightarrow (-), (-) \rightarrow (+)].	<ul style="list-style-type: none">• Reconnect the speakers maintaining proper polarity [i.e., (+)\rightarrow(+), (-)\rightarrow(-)].
When listening to stereo sound, the left and right sounds are reversed.	The left and right speaker connections, source connections, or graphic equalizer connections are reversed.	<ul style="list-style-type: none">• Check all connections and correct them if necessary.
A low-pitched noise ("hum" or "buzz") is heard.	The power cord or a fluorescent light, etc., is near the connection wires.	<ul style="list-style-type: none">• Try separating this unit as far as possible from the electric appliance.
Sound is not heard from one of the speakers.	The speaker wires are disconnected. The balance control is set too far to one side.	<ul style="list-style-type: none">• Check and correct the connections of the speaker wires.• Set so that sounds are heard at the center, between the speakers.
Sound stops during a performance, or no sound is heard when the power is switched ON.	The protection circuitry has functioned because the positive and negative speaker connection wires are "shorted", speakers with an impedance less than the indicated rated impedance of the amplifier are used, or DC voltage appears in the output, causing the protection circuitry to function.	<ul style="list-style-type: none">• Switch OFF the power, and, after determining and correcting the cause, switch ON the power once again.• Use the speakers of the proper impedance rating.

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