

# SE-77

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## OPERATING INSTRUCTIONS





**WARNING:** To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

- The Model No. and Serial No. of your unit are shown on its back panel.
- SANSUI attests that this product conforms with EEC directive 82/499/EEC.



**ENGLISH**

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We are grateful for your choice of this fine Sansui high fidelity product. Before you operate it, we suggest that you read this booklet once through carefully, familiarizing yourself with the important precautions, operational procedures and every one of the product's many features. It will help to ensure that you will avoid possible damage and that the product's superb performance will be yours to enjoy for many years to come.

## Precautions

\* Bear in mind the following points.

### Power plug

When disconnecting the power cord from the power outlet, always take hold of the plug, and not the wire, and pull free. Never connect or disconnect the power plug with wet hands since you may receive an electric shock.

\* Remember to disconnect the power plug from the power outlet when you do not intend to use the unit for a prolonged period of time.

### Do not remove the case and bottom panel

Any inspections or adjustments inside the unit may lead to malfunctions and electric shocks. Do not touch any of the inside parts. SANSUI's warranty is not effective if a deterioration in the unit's performance results from remodeling inside.

### Installation precautions

Do not install the unit in any of the following locations since this may result in a deterioration in performance or malfunction:

- \* Locations exposed to direct sunlight or near objects radiating heat such as heating appliances.
- \* Locations exposed to moisture or humidity.
- \* Locations with poor ventilation exposed to dust and dirt.
- \* Locations which are unstable and not perfectly flat or which are susceptible to vibration.
- \* On top of a high power output amplifier, audio components or any other product which radiates heat.

### Do not wipe with thinners

Wipe the panels and case from time to time with a soft cloth. Using any kind of thinner, alcohol or volatile liquid will mar the surface, cause blotching on the exterior and erase the markings and should therefore be avoided.

Do not use insecticide sprays in the vicinity.

## Specifications

### Input sensitivity and impedance (1 kHz)

SOURCE IN, TAPE PLAY-1,2 ..... 1V/30 k ohms

### Output level and impedance (1 kHz)

TAPE REC-1,2 ..... 1V/4.7 k ohms

SOURCE OUT ..... 1V/4.7 k ohms

(Maximum output level: 5V/4.7 k ohms at 0.5% total harmonic distortion)

### Total harmonic distortion (1V, 20 Hz to 20 kHz)

SOURCE IN, TAPE PLAY-1,2 ..... 0.005%

### Frequency response (at 1V, Equalizer controls: "0" position)

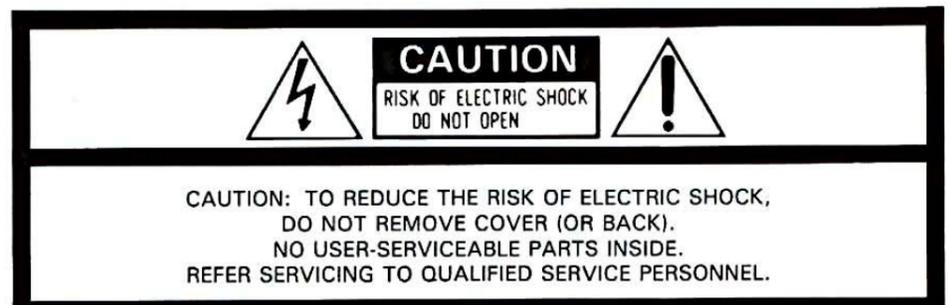
SOURCE IN, TAPE PLAY-1,2 ..... 10 Hz to 100 kHz,  
+1.0 dB, -1.0 dB

### Signal to noise ratio (Short-circuit, A-network)

SOURCE IN, TAPE PLAY-1,2 ..... 110 dB

Equalizer frequency ..... 16 Hz, 32 Hz, 64 Hz, 125 Hz,  
250 Hz, 500 Hz, 1 kHz, 2 kHz,  
4 kHz, 8 kHz, 16 kHz, 32 kHz

Level variation range ..... ±12 dB, ±6 dB



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.

### Others

Power voltage ..... 120, 220, 240 V  
(50/60 Hz)

For U.S.A. and Canada ..... 120 V (60 Hz)

Power consumption ..... 7 watts

Dimensions ..... 430 mm (16-15/16") (W)  
76 mm (2-15/16") (H)  
253 mm (10") (D)

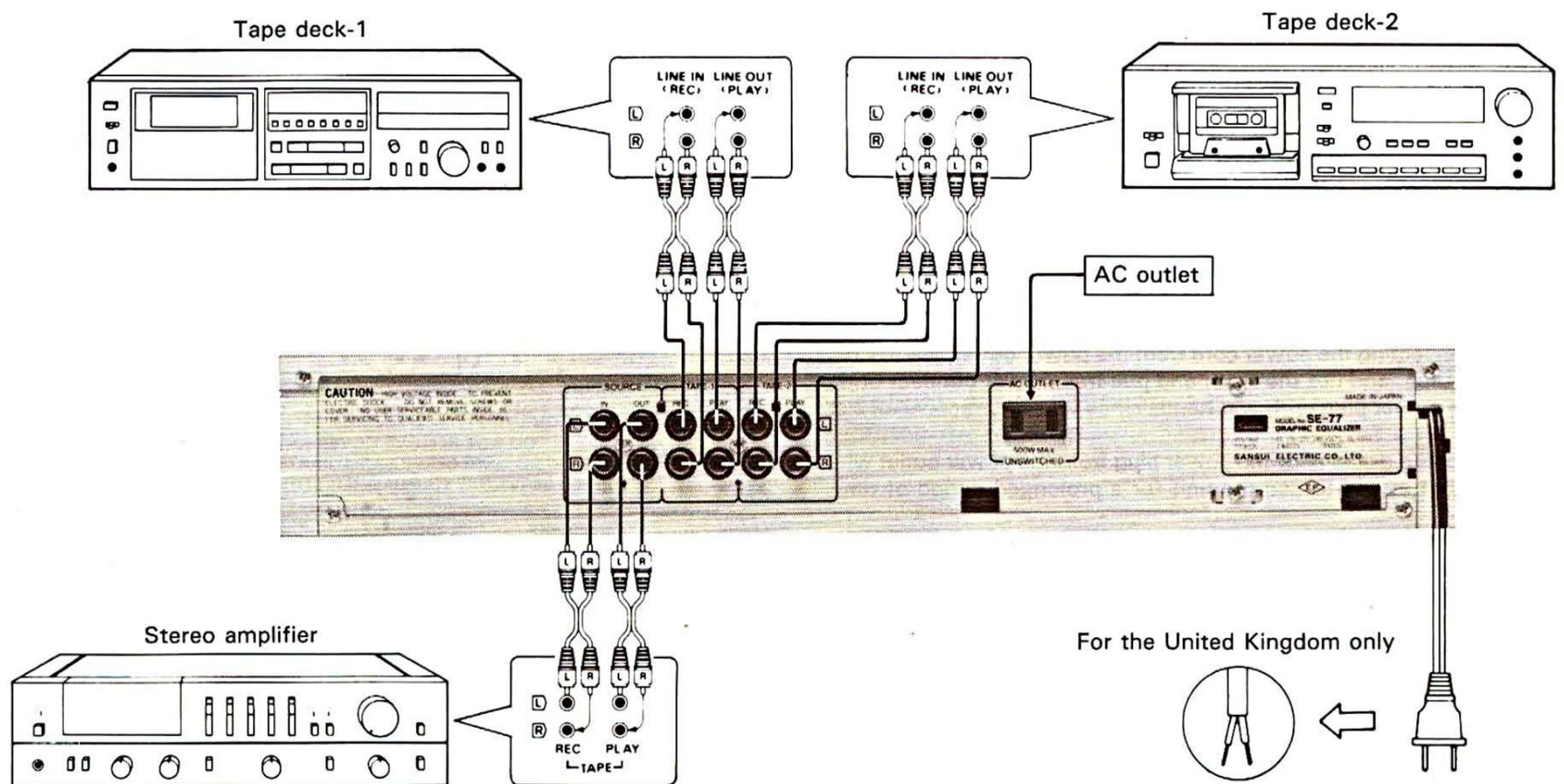
Weight ..... 2.7 kg (6.0 lbs) net  
3.5 kg (7.7 lbs) packed

\* Design and specifications subject to change without notice for improvements.

\* In order to simplify the explanation illustrations may sometimes differ from the originals.

# Connections

\* Mains plug may vary to some extent depending on sales area, local laws and regulations.



## Connection Precautions

- \* When connecting, either disconnect the power plug from the power outlet or turn off the unit's power using the POWER switch.
- \* Before connecting, read through the Operating Instructions of the other audio components which will be connected to this unit.
- \* Check the left and right channels and connect properly (L to L and R to R).
- \* Insert the plugs securely. Improper connection can lead to the generation of noise.

## Amplifier or Receiver Connections

Connect the TAPE REC terminals on the amplifier or receiver to the SOURCE IN terminals on the SE-77 and connect the TAPE PLAY terminals on the amplifier or receiver to the SOURCE OUT terminals on the SE-77.

## Tape Deck Connections

Connect the TAPE REC terminals on the SE-77 to the LINE IN/REC terminals on the tape deck and the TAPE PLAY terminals on the SE-77 to the LINE OUT/PLAY terminals on the tape deck. There are two sets of tape terminals on this unit. Connect the second tape deck to the TAPE-2 terminals.

## AC Outlet

The maximum power consumption of a component connected to this power outlet is 500 watts. If a component with a higher rating is connected, it can be extremely dangerous. Always check this rating before making the connection.

**NOTE:** Depending on the laws and regulation enforced locally, models without AC outlets may be supplied to some areas. Also, depending on the sales area, the shape of the AC outlets and their capacity may differ.

## For the United Kingdom only

### Important

The wires in this mains lead are coloured in accordance with the following code:

**Blue: Neutral**  
**Brown: Live**

If the colours of the wires in the mains lead of this equipment should not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

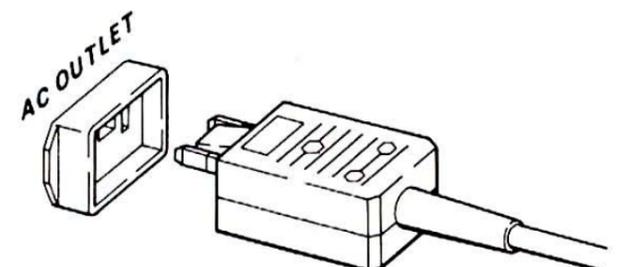
The wire which is coloured **blue** must be connected to the terminal which is marked with the letter 'N' or coloured black.

The wire which is coloured **brown** must be connected to the terminal which is marked with the letter 'L' or coloured red.

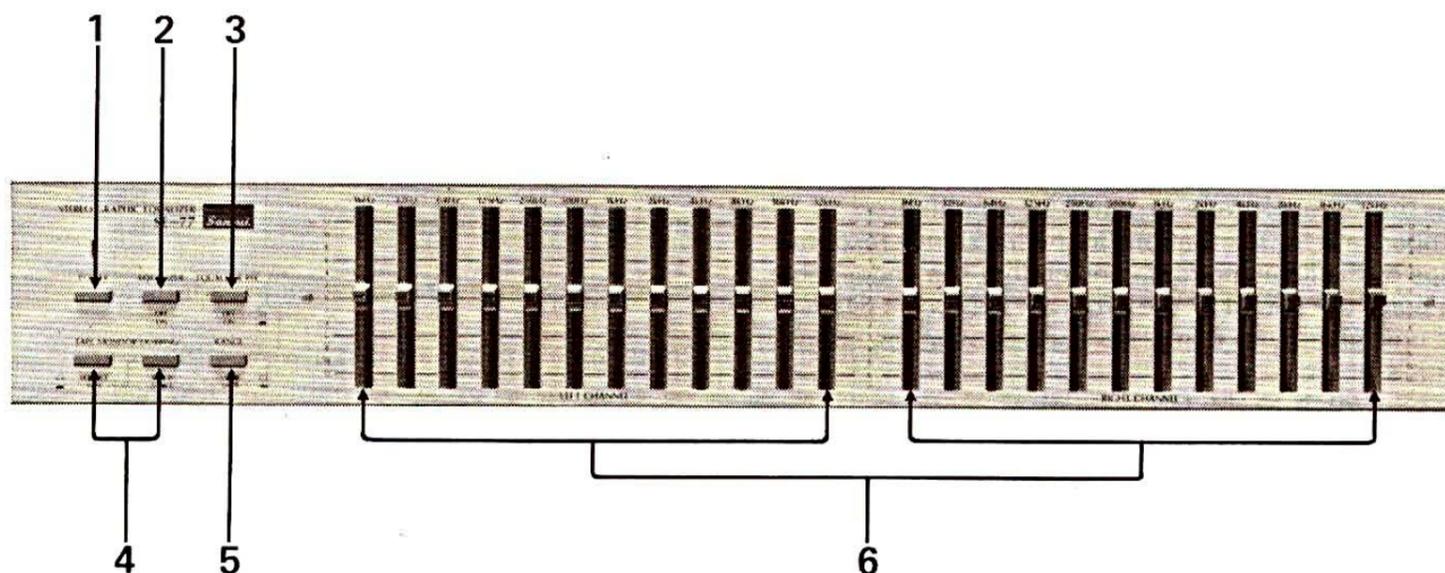
Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

For equipment purchased outside the U.K. with a "EUROPEAN" two-pin mains plug, the plug should be removed and connections made in accordance with the above instructions. Ensure also that the equipment is properly adjusted to 240 volts operation. If you are in any doubt, consult a qualified electrician, or our Service Agent in the U.K.

AC outlet on the rear panel accepts AC power plug "BULGIN P.772" or equivalent.



## Panel information



\* The photos and illustrations show a unit with a silver panel.

### 1 POWER switch

When this switch is pressed, power to the unit is turned ON, and the upper indicator lights. When pressed and released once more, power is turned off.

### 2 EQUALIZER switch

This is the ON/OFF switch for the output signals' equalizing function. When this switch is placed in the ON position, the indicators for the equalizer controls light, and you can perform equalization of the output signals. When the switch is in the OFF position, the output signals' frequency response will be flat, regardless of the position of the equalizing controls.

### 3 EQUALIZER REC switch

This is the ON/OFF switch for the recording signals' equalizing function. When this switch is placed in the ON position, the indicators for the equalizer controls light, and you can perform equalization of program source and dubbing recording signals, recording the results on the tape deck connected to the unit. When the switch is in the OFF position, recording signals will have flat response.

### 4 TAPE MONITOR (DUBBING) switches

These 2 switches are used to perform switching between program source playback and tape playback, or dubbing mode.

“SOURCE □ -(□)”: The switches are placed in this position when performing program source (record or broadcast) playback or recording. Switching between record and broadcast is also performed at the amplifier to which the unit is connected.

\* In this case, the position of the right-side switch has no effect on operation.

“TAPE ■ -1(1 ▶ 2) □”: Switches are placed in this position when performing tape deck-1 playback, or dubbing from tape deck-1 to tape deck-2.

“TAPE ■ -2(2 ▶ 1) ■”: Switches are placed in this position when performing tape deck-2 playback, or dubbing from tape deck-2 to tape deck-1.

### 5 RANGE switch

This switch is used to select the range in which adjustment can be performed with the equalizer controls. When set to the  $\pm 12$  dB position, the range of each equalizer control is broad, allowing for wider adjustments. When set to the  $\pm 6$  dB position, the range of each control is cut in half, allowing more delicate adjustments to be made.

### 6 Equalizer controls

These controls allow the levels approximate to the frequencies indicated above the controls to be continuously controlled from +12 dB to -12 dB for the left and right channels separately.

The level is made flat when the controls are set to the center “0” position. The level is increased when the controls are slid up from this center position and decreased when they are slid down. Adjust each of the frequency levels to your preference or requirements.

\* The range of levels which can be controlled is selected with the RANGE switch, and can be set to either the +12 dB ~ -12 dB, or +6 dB ~ -6 dB positions.

\* When the equalizing controls' indicators are not lighted, equalization cannot be performed, even if the controls are manipulated. When you wish to perform equalization of the output signals, set the EQUALIZER switch to the ON position, and when you wish to perform equalization of the recording signals, set the EQUALIZER REC switch to the ON position.

# Operating procedures

## Operating the amplified connected

- \* Set the amplifier's tape monitor switch or input selector to TAPE.
- \* Set the amplifier's volume control to the lowest position.

## Playing a program source with added equalizer effects

This unit can be used to achieve subtle frequency compensation which is not possible using the tone controls or filters of amplifier.

You can not only compensate for fluctuations in the frequency response produced by the shape of the listening room and cut out the undesirable frequencies but also color the sound of the program source as desired. In other words, this unit gives you complete control over the sound.

1. Switch on the unit's power.
2. Set the EQUALIZER switch to the ON position.
3. **When listening to a disk or a radio broadcast:** Select the program source with the amplifier's function selector, and operate the turntable or tuner.

Set the unit's TAPE MONITOR switches to SOURCE (  -  ).

- \* In this case, the position of the right-side switch has no effect on operation.

### When listening to a tape:

When you wish to listen to tape deck-1, set the unit's TAPE MONITOR switches to the "TAPE  -1(1 ▶ 2)  " position.

When you wish to listen to tape deck-2, set the switches to the "TAPE  -2(2 ▶ 1)  " position.

4. Adjust the volume of sound with the amplifier's volume control.
5. Play the music and adjust the equalizer controls to achieve equalizing. When they are slid above the center "0 dB" position, the level near the indicated frequency is increased; when they are slid below the position, the level is reduced.
6. The equalizing effect can be checked momentarily by setting the EQUALIZER switch to the OFF and ON positions.

- \* It is a good idea to keep a record of the setting positions of the equalizer controls so that you can then reset them properly when reproducing the same sound again.

- \* When the EQUALIZER switch is at the OFF position, the sound quality cannot be compensated for even when the equalizer controls are operated.

## Recording a program source with added equalizer effects

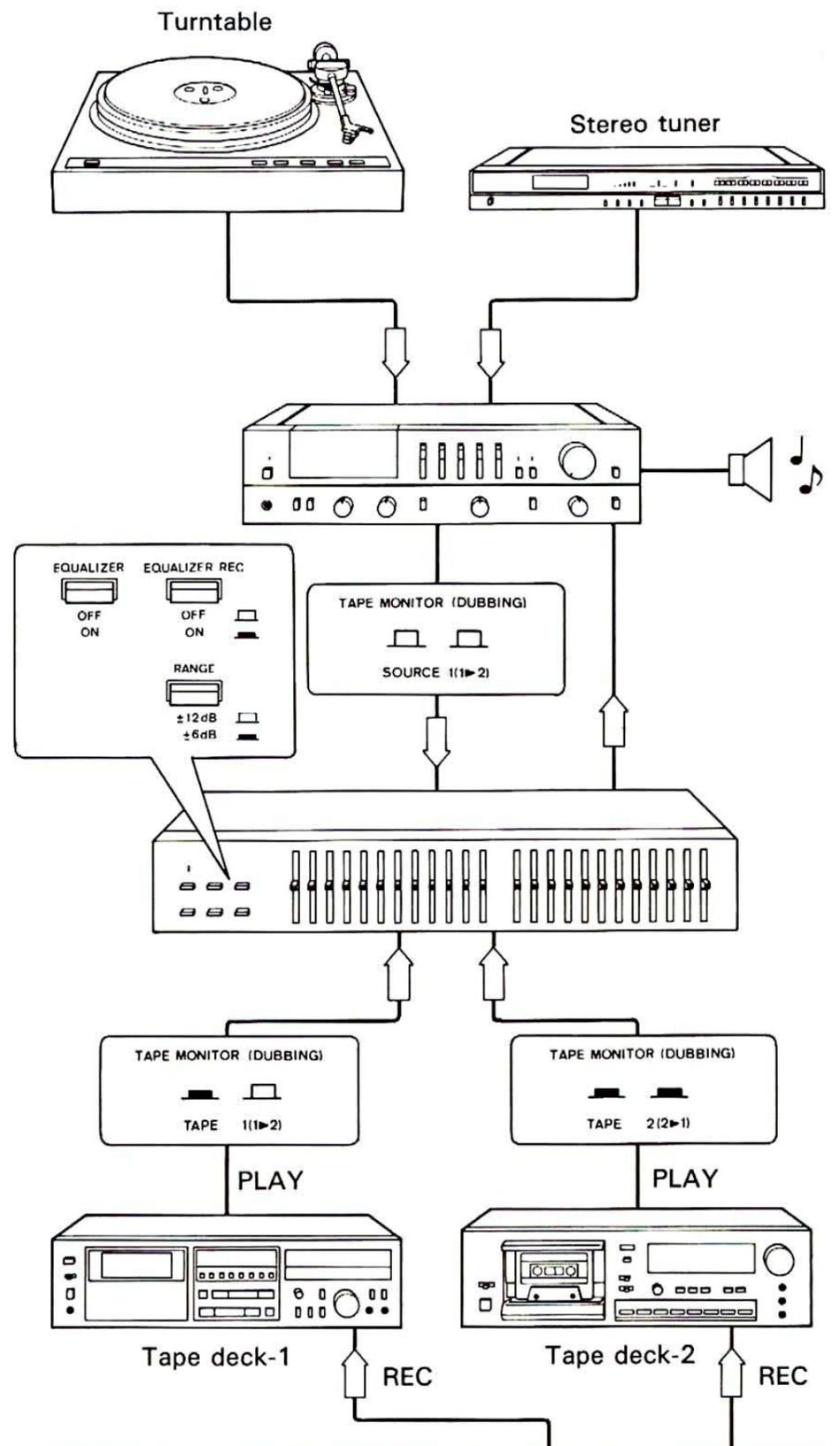
With this function, you can perform equalization of record or radio broadcast sounds, and record the results on the tape deck connected to the unit. In accordance with your own preference and purpose, you can make the sounds you like, thus producing tapes for headphone stereos, car audios, etc.

1. Set the EQUALIZER switch and EQUALIZER REC switch to their respective ON positions.
2. Set the TAPE MONITOR switches to the SOURCE (  -  ) position.
3. Use the amplifier's function selector to select the program source you wish to record, and operate the tuner or turntable as appropriate.
4. Operate the equalizer controls to compensate the program source sounds as desired.

5. Set the recording level of the tape deck connected to the unit and start recording.

- \* If the TAPE MONITOR switches are operated during recording, the recording may be interrupted, or non-equalized sounds may be recorded.

- \* When you wish to record without equalization to achieve a flat frequency response, set the EQUALIZER REC switch to the OFF position. In this case, if the EQUALIZER switch is in the ON position, you can listen to the program source sounds with equalizer effects added, while the sounds you are recording will have a flat frequency response.

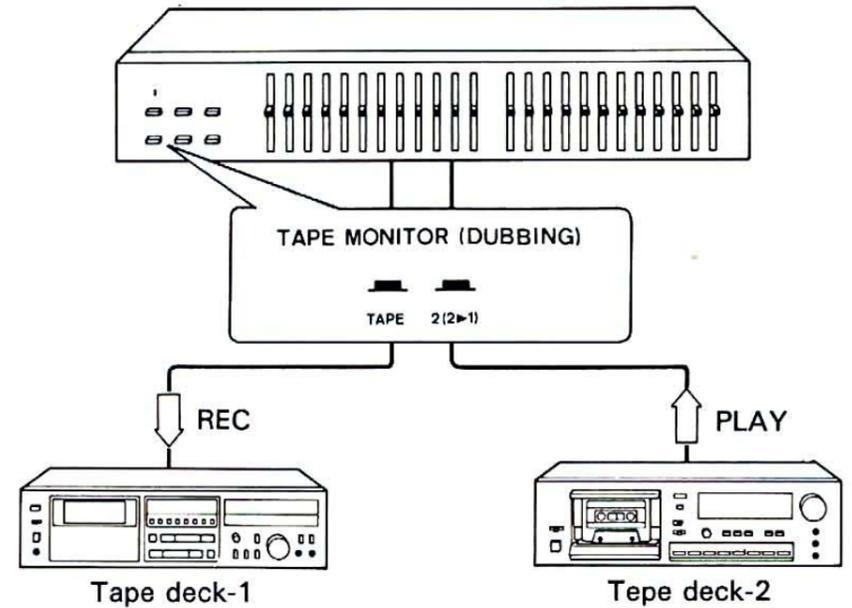
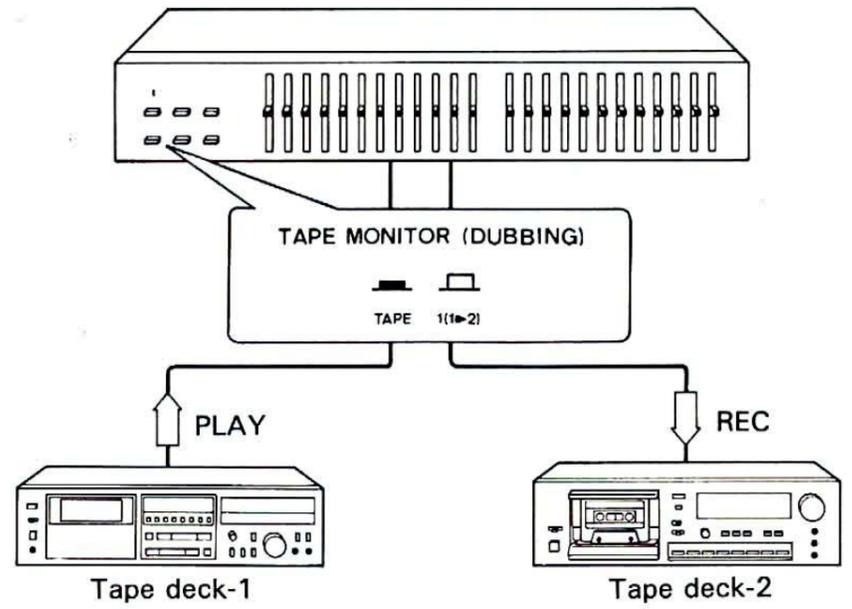


TAPE MONITOR (DUBBING)	Recording signal	Recording signal	
		TAPE-1,REC	TAPE-2,REC
<input type="checkbox"/> <input type="checkbox"/> SOURCE 1(1▶2)			
<input checked="" type="checkbox"/> <input type="checkbox"/> TAPE 1(1▶2)	 Tape deck-1	 Tape deck-1	 Tape deck-1
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> TAPE 2(2▶1)	 Tape deck-2	 Tape deck-2	 Tape deck-2

## Dubbing a tape with added equalizer effects

When two tape decks are connected to the unit, you can perform equalization of the sounds from a recorded tape, and dub the results (perform tape copying) on the other tape deck.

- Set the TAPE MONITOR (DUBBING) switches.
    - When dubbing from tape deck-1 onto tape deck-2: "TAPE  -1(1 ▶ 2) ".
    - When dubbing from tape deck-2 onto tape deck-1: "TAPE  -2(2 ▶ 1) ".
  - Set the EQUALIZER switch and EQUALIZER REC switch to their respective ON positions.
  - Playback the tape, and use the equalizer controls to adjust the sound quality as desired.
  - Adjust the recording level of the recording-side tape deck, and begin the recording.
- \* If the TAPE MONITOR (DUBBING) switches are manipulated during dubbing, the recording will be interrupted, or other program sources will be recorded.
- \* When you wish to record without equalization to achieve a flat frequency response, set the EQUALIZER REC switch to the OFF position. In this case, if the EQUALIZER switch is in the ON position, you can listen to the program source sounds with equalizer effects added, while the sounds you are recording will have a flat frequency response.

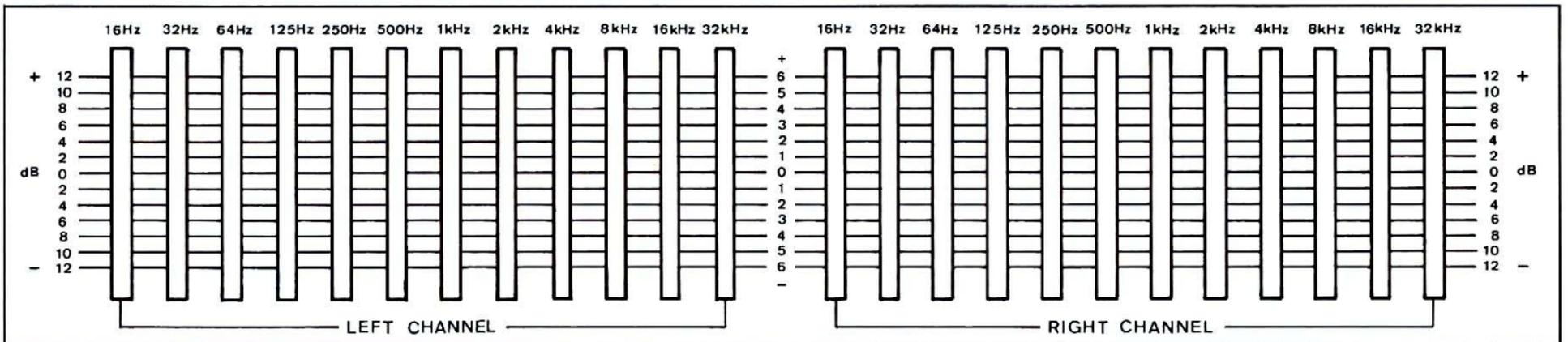


## Equalizing recording chart

It is a good idea to make a note in the chart below of the setting positions of the equalizer controls when they were used for equalizing under the circumstances (type of program source, details of specially created sound) at the time. This will help you to do full justice to the performance of the unit.

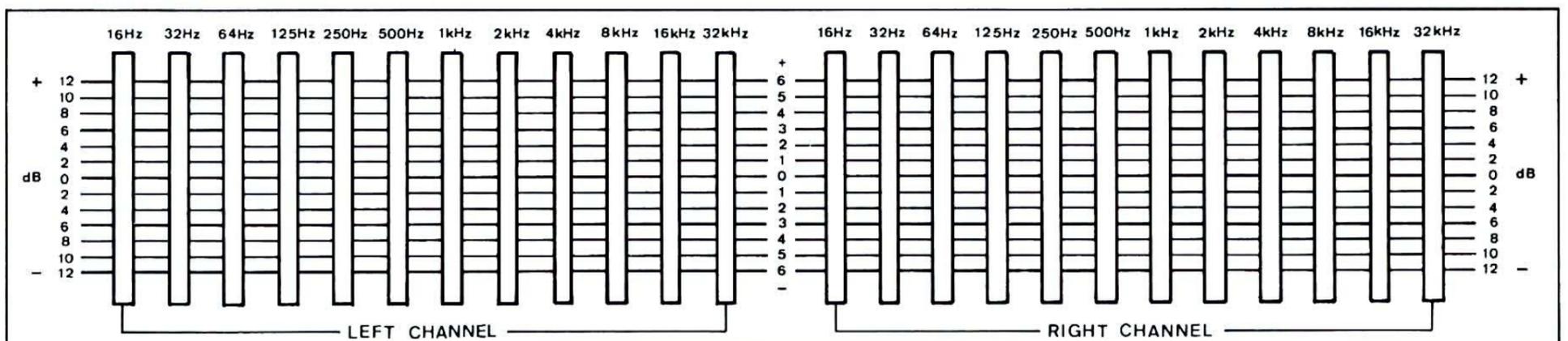
Date: \_\_\_\_\_ RANGE:  $\pm 12\text{dB} / \pm 6\text{dB}$

Circumstances: \_\_\_\_\_



Date: \_\_\_\_\_ RANGE:  $\pm 12\text{dB} / \pm 6\text{dB}$

Circumstances: \_\_\_\_\_





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