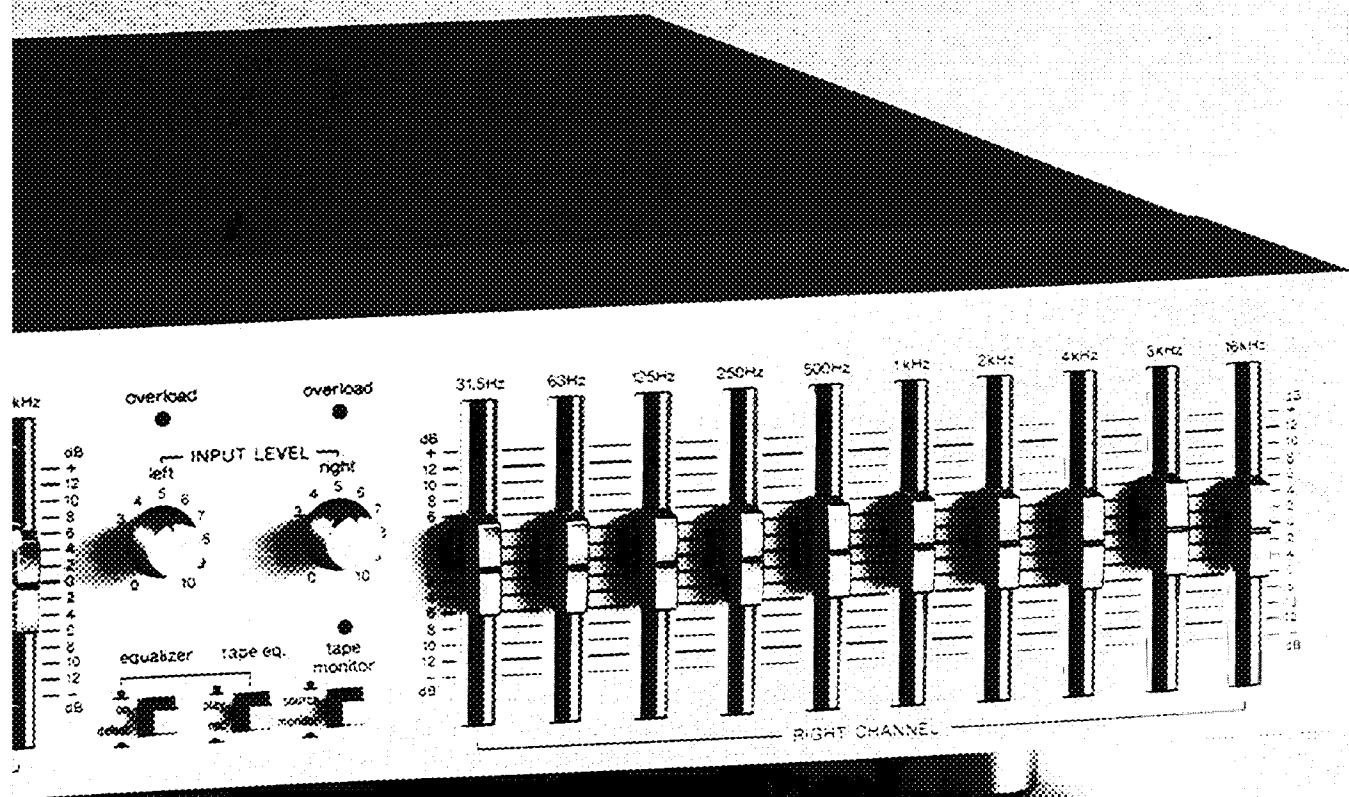


harman/kardon

GRAPHIC EQUALIZER

# EQ 7

owner's manual



Your investment in a component high fidelity system indicates you have a more than average interest in music. The fact that your investment includes a Harman Kardon EQ7 Graphic Equalizer shows us your appreciation of uncompromised reproduction of the music you enjoy. Throughout the design and manufacture of this unit, We made every effort to assure it will meet all your expectations. To ensure continuing high performance, read this manual carefully before you connect and operate your EQ7.

## Contents

Features .....	3
General Instructions .....	3
Locations for Installation .....	3
Components and Their Functions .....	4-6
Front Panel .....	4-5
Rear Panel .....	6
Connections .....	7
Operation Procedure .....	8-9
Listening to a tuner, turntable or other component .....	8
Tape playback .....	9
Tape recording .....	9

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

# Features

- Independent left and right channel control for 10 frequency subbands.
- INPUT LEVEL controls with OVERLOAD indicators independently provided for right and left channels.
- Adoption of TAPE MONITOR switch to monitor the sound of tape deck connected to this unit.
- Free selection between equalized recording and defeated recording while listening to equalized or defeated source sound by combination of the EQUALIZER switch and TAPE EQUALIZER switch.
- Accurate tone control by visual and auditory check of the equalized frequency characteristic.

# General Instructions

## Always use at 120V AC

This unit is designed for use at 120V AC. Do not connect the unit to an outlet supplying a higher voltage to prevent fire.

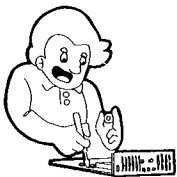
## Handle the AC cord carefully

- Always hold the plug when disconnecting the AC cord from the outlet. Pulling at the cord may cause discontinuity.
- If the unit is not used for a prolonged period, disconnect the plug from the outlet.
- Do not place or drop a heavy material such as furniture on the cord. Otherwise the cord may be damaged to cause fire or shock hazard.



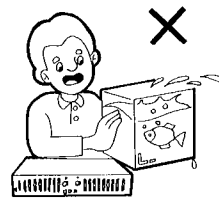
## Do not open the cabinet

To prevent shock hazard or unexpected trouble, do not tamper with internal components for inspection or maintenance. Harman Kardon does not guarantee performance degradation resulting from any modification.



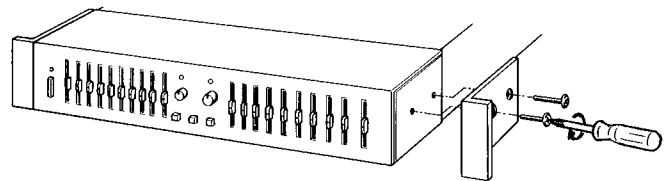
## When water or a metal piece enters the unit

When water, a hair pin or wire accidentally enters the unit, immediately extract the AC plug from the outlet to prevent shock or trouble.



## When using with other wide-faced Harman Kardon components

To use this unit with wide-faced Harman Kardon components (such as hk600 series components), fit two attached extension metals in line with the front panel using 4 mounting screws after removing 4 bushings inserted to threaded holes on both side of the unit. This will establish perfect alignment with other components so your system will look nicer.



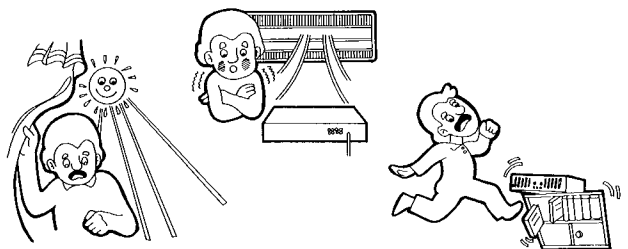
★ Always disconnect the plug from the outlet before making connections with other components.

# Locations for Installation

Select a firm level base.

Avoid the following locations:

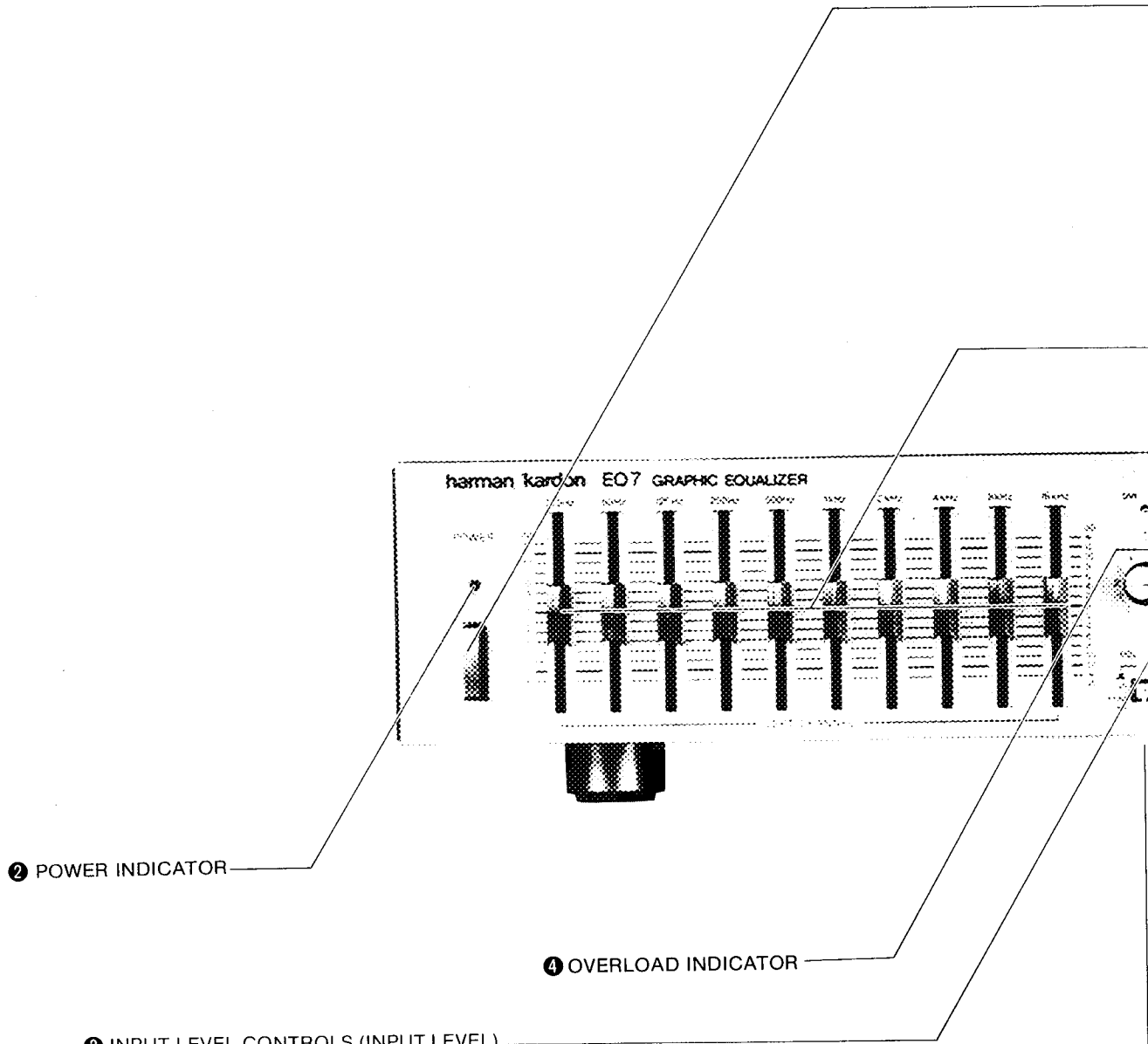
- Place exposed to excessive moisture
- Place exposed to direct sunlight or near a heat source
- Cold place such as near a cooling air outlet
- Dusty place
- Place exposed to excessive vibration
- Poorly ventilated place



When piling with other components, carefully plan so as not to obstruct heat radiation from a preamplifier or pre-mainamplifier. Use of a Harman Kardon audio rack is recommended.

# Components and Their Functions

## Front Panel



2 POWER INDICATOR

4 OVERLOAD INDICATOR

3 INPUT LEVEL CONTROLS (INPUT LEVEL)

For equalizer input level adjustment. Independent control for the left and right channel is possible. When the input level in the left or right channel exceeds the allowable limit, the corresponding OVERLOAD indicator illuminates, so turn the control knob counterclockwise until the indicator extinguishes.

5 EQUALIZER SWITCH (equalizer)

**ON position:**  
Validates the equalizer. The frequency characteristic can be changed as desired by the EQUALIZER LEVEL controls.

**DEFEAT position:**  
The signals bypass the equalizer to give flat frequency characteristic. At this position, the input signals to this unit bypass the internal circuit even if the POWER switch of this unit is turned off, so the connection between the tape deck and the amplifier is not cut off.

— ❶ POWER SWITCH (POWER)

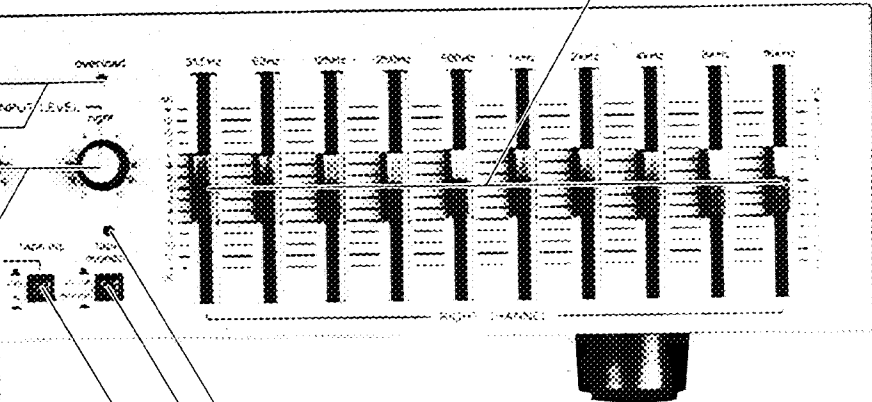
For power turning on and off.  
When this switch is pressed after AC cord connection to an outlet, the POWER indicator illuminates. Press this switch again to turn the power off.

❹ EQUALIZER LEVEL CONTROLS (LEFT CHANNEL, RIGHT CHANNEL)

For boosting or cutting of desired frequency subbands.

The audio frequency band is divided into 10 subbands from 31.5Hz to 16kHz.

The adjusting range is  $\pm 12$ dB for each subband. Independent control for the left and right channels is possible. The sounds of particular musical instruments can be stressed or suppressed to obtain the best performance in a given room.



❸ TAPE MONITOR INDICATOR

❷ TAPE MONITOR SWITCH (tape monitor)  
MONITOR position:

The sound reproduced or recorded at the tape deck connected to this unit can be monitored. The MONITOR indicator illuminates.

SOURCE position:

The sound of the source connected to the INPUT jacks of this unit can be enjoyed.

❶ TAPE EQUALIZER SWITCH (tape eq.)

Always use this switch with the EQUALIZER switch at its ON position.

PLAY position:

The signals from the tape deck connected to this unit are equalized when the TAPE MONITOR switch is at its MONITOR position.

RECORD position:

The signals to the tape deck connected to this unit are equalized to enable recording with the desired frequency characteristic.

## Rear Panel

### 10 GROUND TERMINAL (GND)

If noise is generated, connect this terminal to the ground terminal of your preamplifier or pre-mainamplifier.

### 11 INPUT JACKS (INPUT)

Connect these jacks to the tape output jacks of your preamplifier or pre-mainamplifier.

### 12 OUTPUT JACKS (OUTPUT)

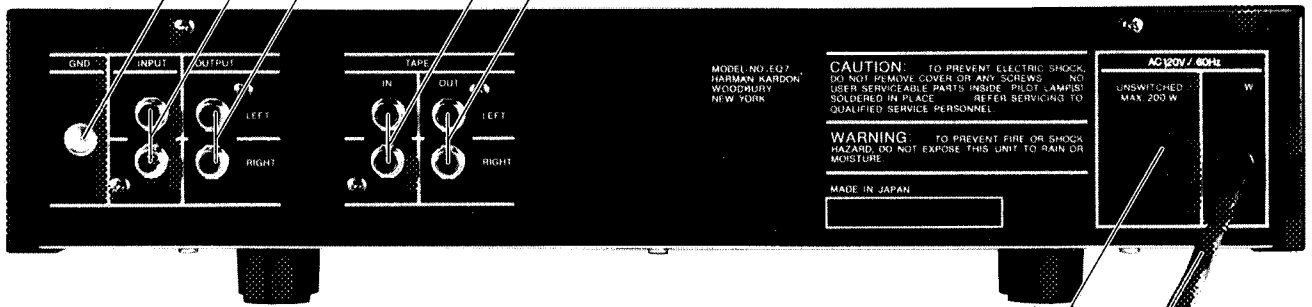
Connect these jacks to the tape input jacks of your preamplifier or pre-mainamplifier.

### 13 TAPE INPUT JACKS (TAPE IN)

Connect these jacks to the output jacks of your tape deck.

### 14 TAPE OUTPUT JACKS (TAPE OUT)

Connect these jacks to the input jacks of your tape deck.



### 15 AC OUTLET (UNSWITCHED)

This is the service outlet for your tape deck, player or tuner. The mains voltage is always supplied to this outlet irrespective of the POWER switch of this unit. Interlocked switching is impossible. The maximum power capacity is 200W.

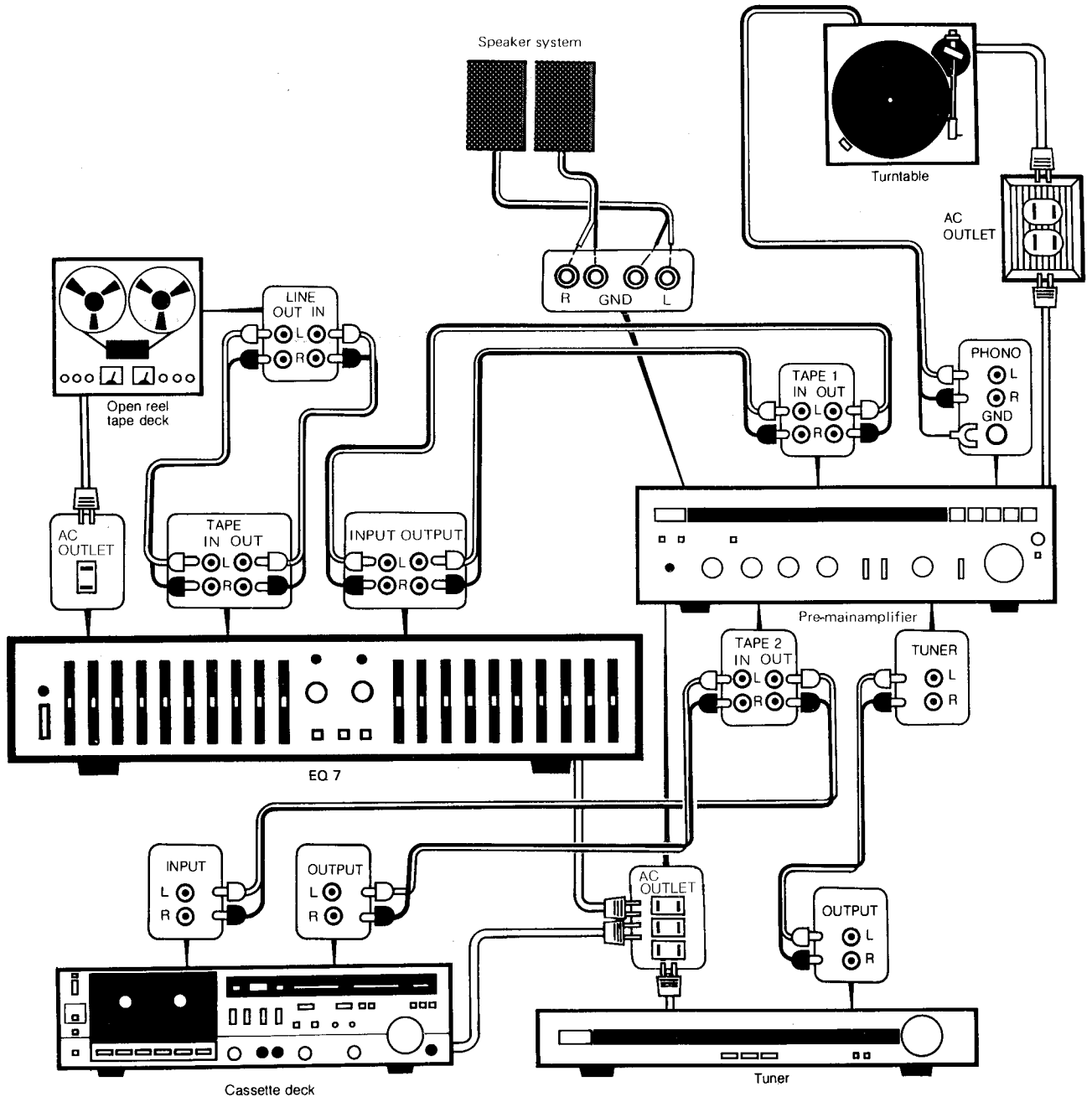
### 16 AC POWER CORD

Connect this cord to a 120V AC outlet.

# Connections

- Always disconnect the AC cords connected to mains outlets before connections between components.
- Use the two attached connection cords and obtain other connection cords if required. Connect the plugs correctly to the left and right channel jacks.
- Insert plugs fully. Imperfect insertion may cause noise or sound reproduction failure.

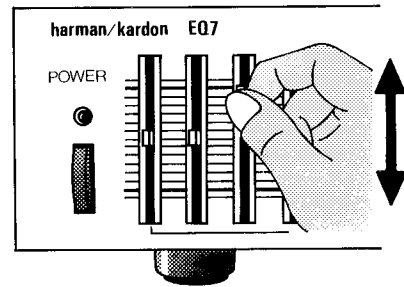
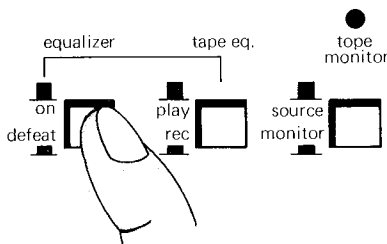
- Always keep the tape monitor switch of the amplifier at its monitor position. In case of an amplifier to allow connection of two tape decks, place the tape monitor switch of the amplifier at the position corresponding to the jacks (TAPE 1 or TAPE 2) to which this equalizer is connected.



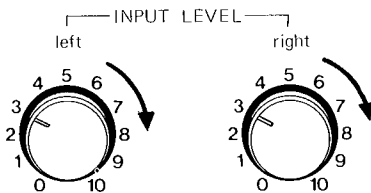
# Operation Procedure

## Listening to a tuner, turntable or other auxiliary component connected through the pre-amplifier or pre-mainamplifier

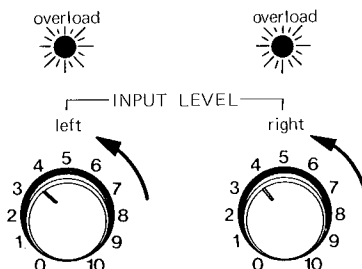
1. Press the POWER switches of this unit and related components.
2. Place the tone control knobs of the amplifier at flat positions.
3. Place the function selector of the amplifier at the desired source position (phone, tuner or aux).
4. Turn the volume control of the amplifier until the source sound is heard.
5. Place the EQUALIZER switch at its DEFEAT position. Place the TAPE MONITOR switch at its SOURCE position, and select the tape monitor function on the amplifier according to its owner's manual.
8. Move EQUALIZER LEVEL controls for one frequency subband at a time for both the left and right channels from the lowest subband to the highest, or in the reverse order. During this operation, place the EQUALIZER switch at its DEFEAT position from time to time to compare with the original source sound.



6. Turn the INPUT LEVEL controls LEFT and RIGHT fully clockwise.



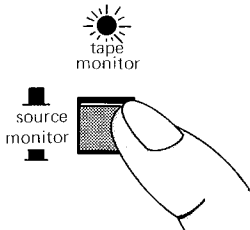
7. Place the EQUALIZER switch at its ON position. If the input level is excessive, the corresponding OVERLOAD indicator illuminates. To prevent sound distortion, turn the corresponding INPUT LEVEL control counter-clockwise until the indicator extinguishes.





## Tape Playback

1. Press the power switches of this unit and related components.
2. Place the tone control knobs of your amplifier at flat positions.
3. Set the tape deck to the play mode according to its owner's manual.
4. Place the EQUALIZER switch at its ON position.
5. Place the TAPE EQUALIZER switch at its PLAY position.
6. Place the TAPE MONITOR switch at its MONITOR position.



7. Select the tape monitor function on the amplifier according to its owner's manual and adjust the sound volume.
8. Turn the INPUT LEVEL controls LEFT and RIGHT fully clockwise. If the input level is excessive, the corresponding OVERLOAD indicator illuminates. To prevent sound distortion, turn the corresponding INPUT LEVEL control counterclockwise until the indicator extinguishes.
9. Move the EQUALIZER LEVEL controls as desired.

## Tape Recording

1. Press the power switches of this unit and other related components.
2. Select the recording source according to the owner's manual of the amplifier.
3. Select the tape monitor function on the amplifier according to its owner's manual.
4. Place the EQUALIZER switch at its ON position.
5. Place the TAPE EQUALIZER switch at its RECORD position.
6. Place the TAPE MONITOR switch at its SOURCE position.
7. Turn the INPUT LEVEL controls fully clockwise.
8. If the input level is excessive, the corresponding OVERLOAD indicator illuminates. Turn the corresponding INPUT LEVEL controls counterclockwise until the indicator extinguishes.
9. Move the EQUALIZER LEVEL controls as desired.
10. Start the tape deck connected to the TAPE OUTPUT jacks in record mode according to its owner's manual.
11. To monitor the recording sound, place the TAPE MONITOR switch at its MONITOR position.
12. If it is desired to bypass the equalizer during recording, place the EQUALIZER switch at its DEFEAT position.

## Maintenance

When this unit gets dirty, wipe with a dry soft cloth. If heavily contaminated, soak a soft cloth in soapy water, and wipe the dirt off. Then wipe with a dry soft cloth. Never use alcohol, thinner, benzene or other volatile agent because painting may be damaged.