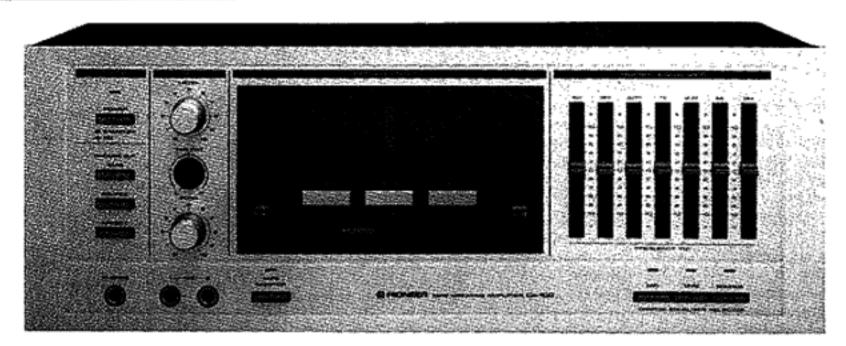


For more Hi-Fi manuals and set-up information please visit www.hifiengine.com

Operating Instructions

TAPE-CREATING AMPLIFIER

CA-100



Thank you for buying this Pioneer product.

Please read through these operating instructions and then you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

These operating instructions are based on the model HE, and they can be used for the HB, KU, KC, R, R/G models. The differences between the models are given below.

HE model:

For Europe ('HE' stamped on packing case): power line voltage is a.c. 220 volts ∼.

HB model:

For U.K. ('HB' stamped on packing case): power line voltage is a.c. 240 volts ~.

KU and KC models:

For U.S.A. and Canada ('KU' or 'KC' stamped on packing case): power line voltage is AC 120 volts.

R and R/G models:

For destinations excluding above (R or R/G stamped on packing case); A 2-point (a.c. 110 V — 120 V/220 V — 240 V) voltage selector switch is provided.

IMPORTANT NOTICE [For KU and KC models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep in a secure area. This is for your security.

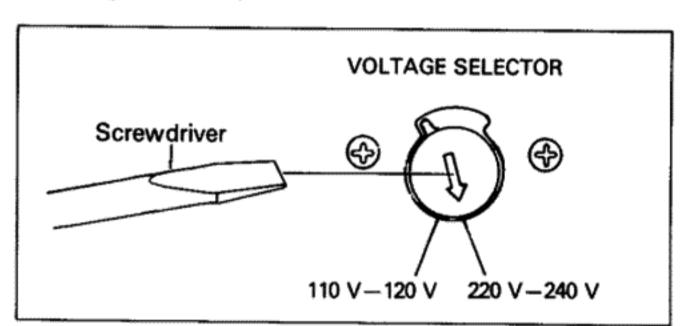
KU (for U.S.A.) and KC (for Canada) models are not provided with LINE VOLTAGE SELECTOR switch.

LINE VOLTAGE SELECTOR SWITCH

Only R and R/G models are provided with this switch but KU, KC and other models (HE, HB) are not provided with this switch.

You will find the line voltage selector switch on rear panel. This switch has positions for 110 V - 120 V and 220 V - 240 V power sources. Before your model is shipped from the factory , the switch is set to the power requirements of the destination; nevertheless, you should check that it is set properly before plugging the power cord into the AC outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows. Before adjusting, disconnect the power cord.

- 1. Prepare a medium size screwdriver.
- Insert the screwdriver into the allow on the voltage selector and adjust so that the tip of the arrow points to the voltage value of your area.



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

CONTENTS

Rear Panel Facilities and Connections 3	Mic Mixing
Basic Connections 4	Using the
System Connections 5	Individual
Front Panel Facilities 6	Troublesh
Operating the Graphic Equalizer9	Using the
	Specificati

Mic Mixing and Echo Effects	11
Using the Fader Controls	. 12
Individual Operations	. 14
Troubleshooting	23
Using the Cord Holder	
Specifications	



SAFETY INSTRUCTIONS [FOR KU MODEL]

- READ INSTRUCTIONS All the safety and operating instructions should be read before the appliance is operated.
- RETAIN INSTRUCTIONS The operating instructions should be retained for future reference.
- HEED WARNING All warnings on the appliance and in the operating instructions should be adhered to.
- FOLLOW INSTRUCTIONS All operating and use instructions should be followed.
- WATER AND MOISTURE The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- LOCATION The appliance should be installed in a stable location.
- WALL OR CEILING MOUNTING The appliance should not be mounted to a wall or ceiling.
- VENTILATION The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- HEAT The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- POWER SOURCES The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- POWER-CORD PROTECTION Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

- CLEANING The appliance should be cleaned only with a polishing cloth or a soft d/y cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.
- POWER LINES An outdoor antenna should be located away from power lines.
- NONUSE PERIODS The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- OBJECT AND LIQUID ENTRY Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- DAMAGE REQUIRING SERVICE The appliance should be serviced by Pioneer authorized service center or qualified service personnel when:
- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure damaged.
- SERVICING The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.
- OUTDOOR ANTENNA GROUNDING If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NEPA No. 70-1981, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUC-TIONS

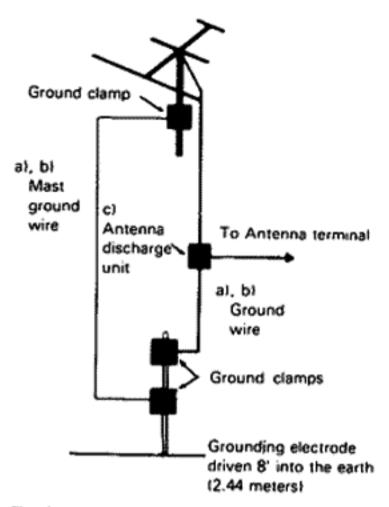


Fig. A

- a) Use No. 10 AWG (5.3 mm²) copper or No. 8 AWG (8.4 mm²) aluminum or No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger as ground wires for both mast and lead-in.
- b) Secure lead-in wire from antenna to antenna discharge unit and mast ground wire to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.

IMPORTANT [FOR KU MODEL]



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of 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.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:

TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

To prevent electric shock, do not remove cover. No user serviceable parts inside; refer servicing to qualified service personnel.

If the apparatus is fitted with AC main power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s).

Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last; make sure that the power switch is off.

Disconnect the wall plug when the equipment is not in regular use, e.g. when on vacation.

FOR USE IN UNITED KINGDOM AND AUSTRALIA

CAUTION 240 V:

Mains supply voltage is factory adjusted at 240 V.

FOR USE IN UNITED KINGDOM

Equipment sold in the U.K. is not supplied with a power plug.

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

Blue:

Neutral

Brown:

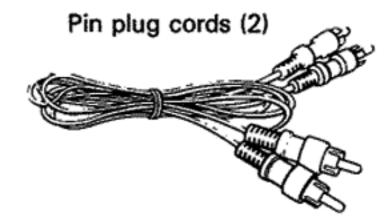
Live

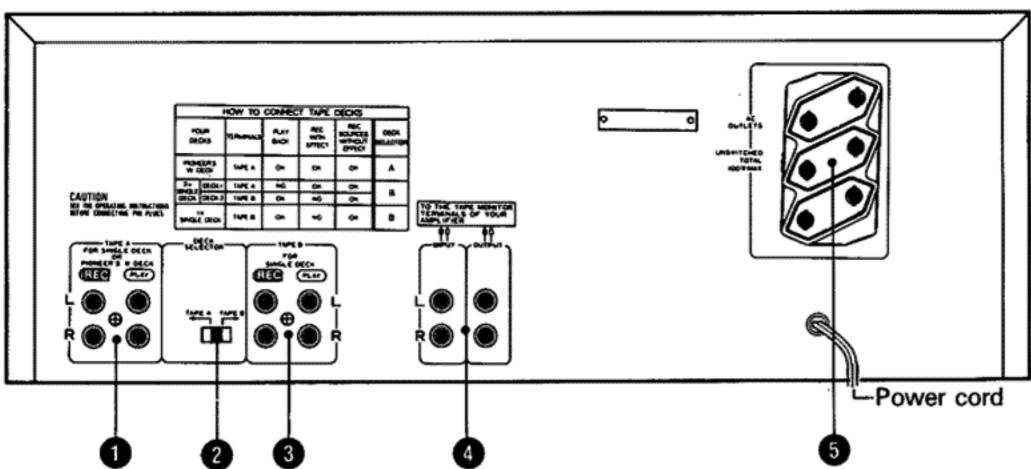
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

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

REAR PANEL FACILITIES AND CONNECTIONS

Two pin-plug cords are included as accessories. These are to be used to connect the sound processor to your stereo amplifier. The white plug is for the left channel, and the red plug is for the right channel.





TAPE A TERMINALS (FOR SINGLE DECK OR PIONEER'S W DECK)

Use these terminals when connecting a single or double deck to this unit.

NOTE:

Under no circumstances, should a single deck be connected to these terminals and the deck selector switch set to "TAPE A" since vibrations will result which may cause trouble in the deck.

DECK SELECTOR SWITCH

Set this switch to the position corresponding to the type of cassette deck being used: set to "TAPE A" when connecting a double cassette deck and to "TAPE B" when connecting a single deck.

TAPE B TERMINALS (FOR SINGLE DECK)

Two single decks can be used to substitute for a double deck. In this case, connect the deck used for playback only to these terminals and connect the recording deck to the TAPE A terminals. Recording and playback are possible with these decks.

Any mention of a "double deck" in these Instructions is a reference to the double cassette deck made by PIONEER. It does not refer to any other double cassette deck since no other deck can be expected to function to the same standard.

TAPE-CREATING INPUT/OUTPUT TERMINALS

These terminals are used to connect the stereo amplifier to the unit.

Connect to the stereo amplifier's TAPE 2 monitor terminals. Use the ADAPTOR/TAPE 2 terminals when the unit is used in combination with the PIONEER stereo components.

6 AC OUTLETS (UNSWITCHED TOTAL 100 W MAX)

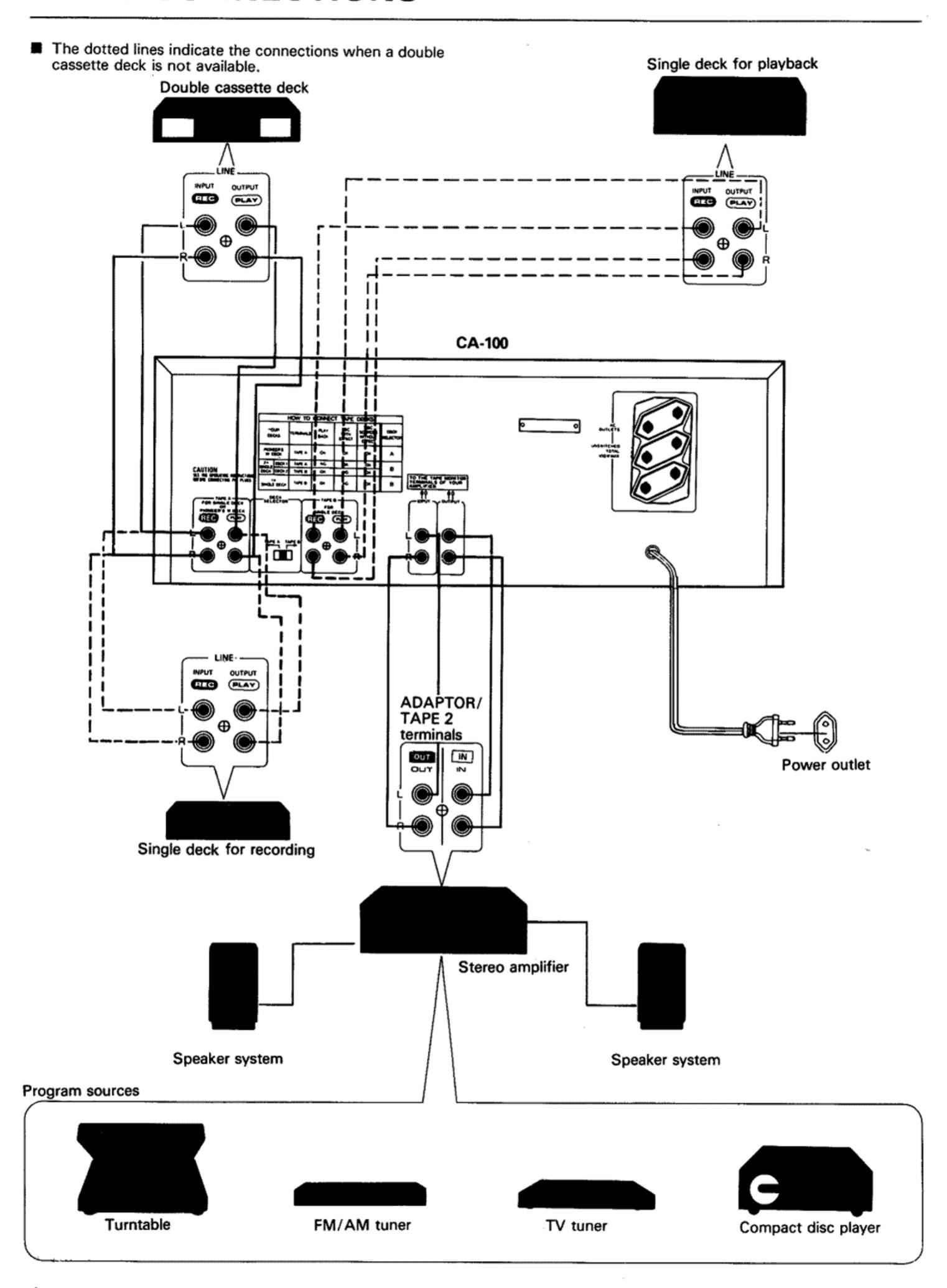
Power flows continually to these outlets, regardless of whether the amplifier is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

The equipment should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g. when on vacation.

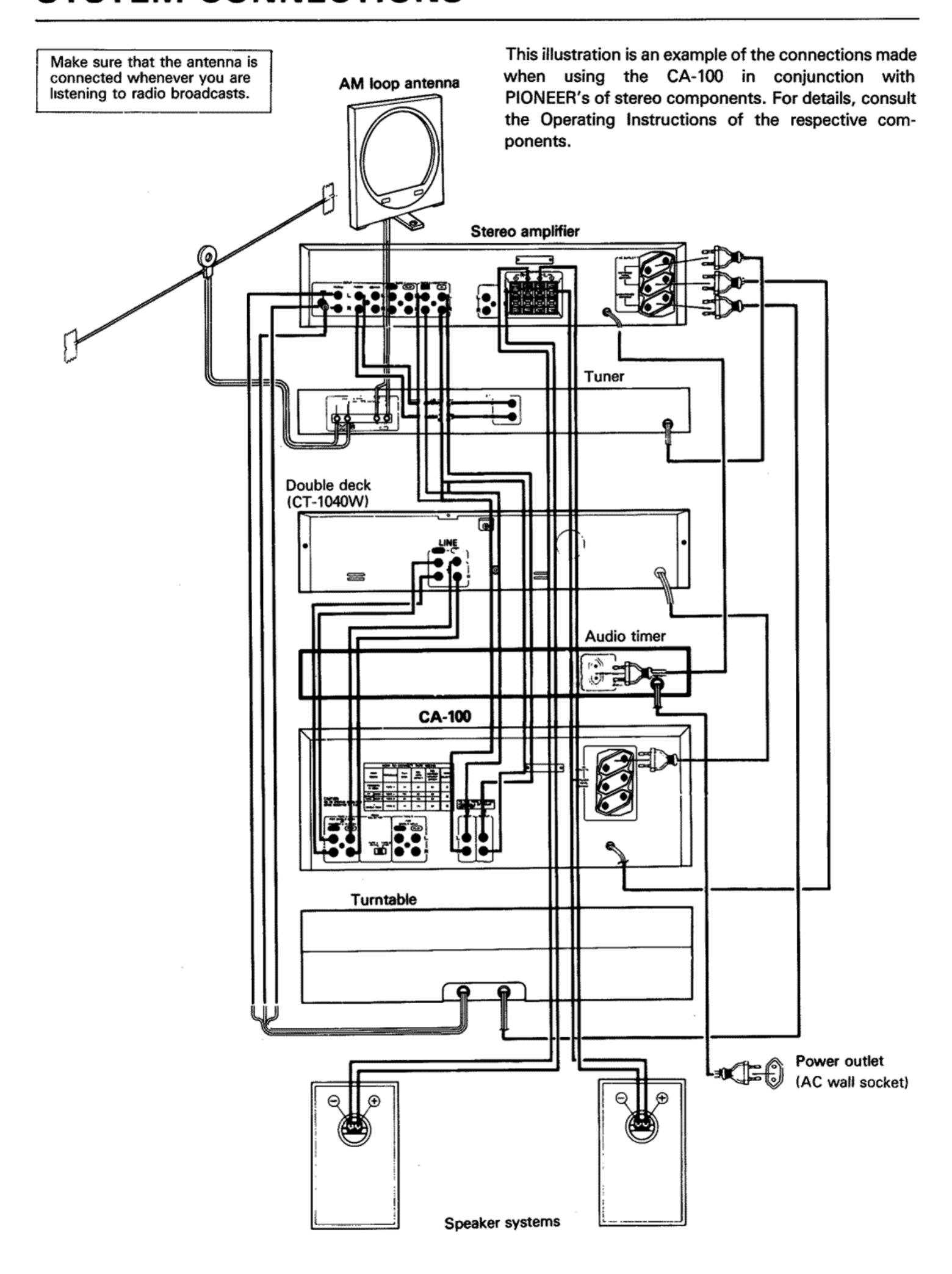
NOTE:

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS, in order to avoid overheating or fire risk. This can cause the amplifier to malfuncion.

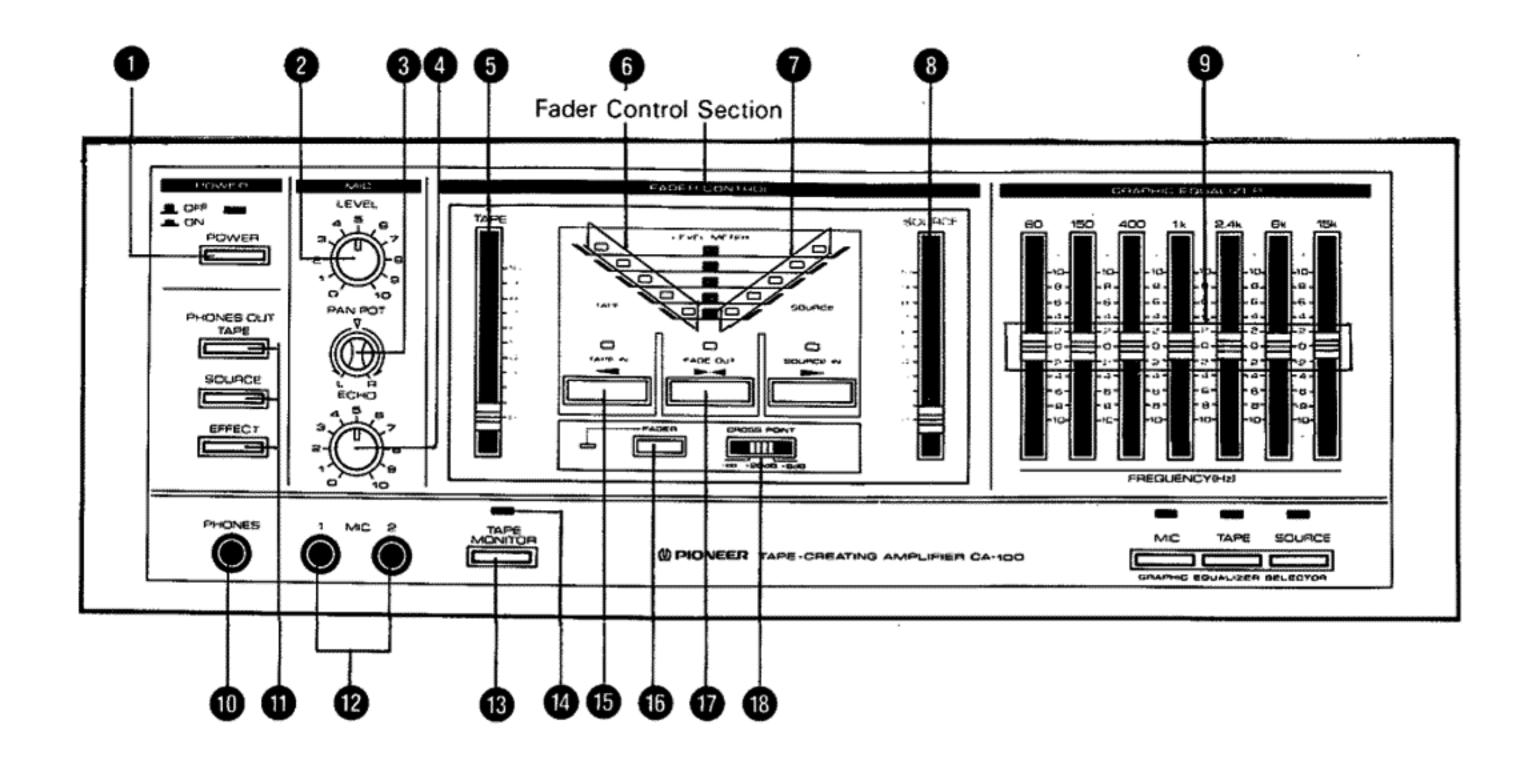
BASIC CONNECTIONS



SYSTEM CONNECTIONS



FRONT PANEL FACILITIES



POWER SWITCH (POWER)

When this switch is set to the ON position, power is supplied to the unit's main circuits. The unit's power switch is geared to selecting the transformer's secondary and so even at the STAND-BY position, the unit's circuitry will work as long as the power cord is connected to the power putlet.

Disconnect the power cord from the power outlet when you do not plan to use the unit for a long period of time.

MIC LEVEL CONTROL (MIC LEVEL)

This adjusts the input level of the microphones connected to MIC jacks 1 and 2 (mono plug input for both 1 and 2).

PANPOT CONTROL (PANPOT)

This control is used to move the sound from the microphones from the left to right, or vice versa, to the desired position.

When the control is set to the center "\nabla" clickstop position, the microphone sound is heard in the center between the left and right speakers.

ECHO LEVEL CONTROL (ECHO)

This is used to adjust the echo effect which is applied to the microphone sound.

5 TAPE LEVEL CONTROL (TAPE)

This is used to adjust the input level of the sound played back by the tape deck connected to the unit's TAPE A or TAPE B terminals.

6 TAPE LEVEL METER

This indicates the tape playback input level and the amount of sound fading.

NOTE:

The amount of sound fading cannot be controlled with the tape level control.

O SOURCE LEVEL METER

This indicates the program source input level and the amount of sound fading.

SOURCE LEVEL CONTROL (SOURCE)

This is used to adjust the input level of the program source (such as an FM program or record).

FADER CONTROL SECTION

This section features fade-in and fade-out functions which superimpose the sound of the source (example: end of a song or piece of music) and the tape playback sound (example: start of a song or piece of music) onto each other. One effective use of these

functions, for instance, is when recording a medley of your favorite singer's hits.

Fade-in:

The sound volume is gradually in-

creased.

Fade-out:

The sound volume is gradually

reduced.

GRAPHIC EQUALIZER CONTROLS (GRAPHIC EQUALIZER)

Operating these controls that divide the entire frequency spectrum into 7 sections can induce changes in the sound quality of the signals in the selected mode (MIC, TAPE or SOURCE).

These controls have many uses: they can add an equalization effect to the playback sound of a tape, to the stereo source (such as record play) or to a microphone.

The equalization effect is applied to all the selected modes.

NOTE:

In order to protect the speakers from damage resulting from power overload, do not excessively increase the stereo amplifier's volume level when boosting the treble range on this unit.

M HEADPHONES JACK (PHONES)

Connect the headphones plug to this jack for monitoring the sound.

HEADPHONES OUT SELECTORS (PHONES OUT)

These switches are used to select the mode (TAPE, SOURCE, EFFECT) to be monitored:

TAPE: For monitoring the tape playback sound.

SOURCE: For monitoring the program source

sound (FM broadcast or record).

EFFECT: For monitoring the effects produced by

operating the unit's controls.

MIC JACKS (1-MIC-2)

Facilities are provided for the connection of two microphones. Use PIONEER's JK-6 plug conversion adaptor to connect any plug (mini) except the standard plug (6.3 mm diameter). Always disconnect the microphone plug when the microphone is not being used.

(TAPE MONITOR SWITCH (TAPE MONITOR)

Set this switch as follows:

OFF: For mixing play of sound played back on the

tape deck connected to the unit's tape ter-

minals or for creating sound

ON: For playing the sound of the tape deck con-

nected to the unit's tape terminals without

adding any effects

TAPE MONITOR INDICATOR

When the TAPE MONITOR switch is pressed, this indicator lights to indicate that the monitoring function has been made operational.

(TAPE FADE-IN SWITCH

The playback sound from the tape deck connected to the unit can be faded in with this switch. When the switch is pressed during program source play, the tape playback sound can be faded in while the source sound is faded out. When the switch is used together with the CROSS POINT switch, the degree of overlap between the end of the song (example: source side) and start of the song (example: tape side) can be varied.

6 FADER CONTROL ON/OFF SWITCH

When this switch is pressed, the controls on the FADER CONTROL section can be operated (the indicator lights). Press the switch again to release the function.

The power output is indicated on the level meter when this switch is in the OFF position.

(FADE OUT ► ◄)

When this switch is pressed during tape playback or program source play or even when either the tape or source sound is being played, the sound volume is gradually reduced to provide a fade-out effect.

CROSS POINT SWITCH

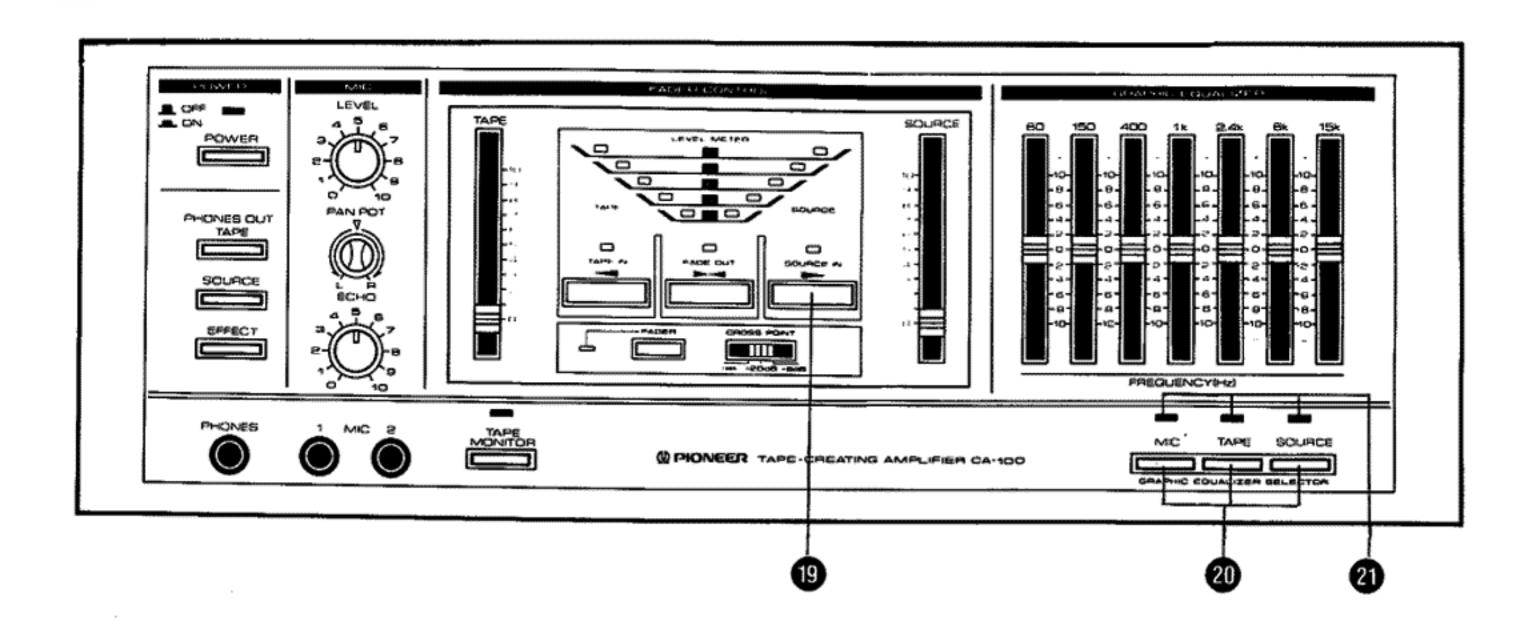
This switch sets the degree of overlap between the end of a song and the start of a song or program during fade-in (example: source side) and fade-out (example: tape side) operations. Set the switch to the following positions:

-∞: Set here so that the source and tape sounds are not overlapped but one sound is first faded out and immediately it has disappeared completely, the sound of the other (tape or source) is faded in.

-20 dB: Set here for a relatively shallow overlap of the source and tape sounds.

-6 dB: Set here for a relatively deep overlap of the source and tape sounds.

For details, refer to page 12.



SOURCE FADE-IN SWITCH (SOURCE IN ►)

The sound of the program source (FM broadcast or record) can be faded in with this switch. When the switch is pressed during tape playback, the source sound can be faded in while the tape playback sound is faded out. When the switch is used together with the CROSS POINT switch, the degree of overlap between the end of the song (example: tape side) and start of the song (example: source side) can be varied.

@ GRAPHIC EQUALIZER SELECTORS (GRAPHIC EQUALIZER SELECTOR)

These switches are used to select the mode (MIC, TAPE, SOURCE) in which the equalizer effect is to be added.

MIC: Set here to add the equalization effect to

the sound of the microphone.

TAPE: Set here to add the equalization effect to

the tape playback sound.

SOURCE: Set here to add the equalization effect to

the program source sound (FM broad-

cast or record).

The equalization effect can be added to all modes (MIC, TAPE and SOURCE).

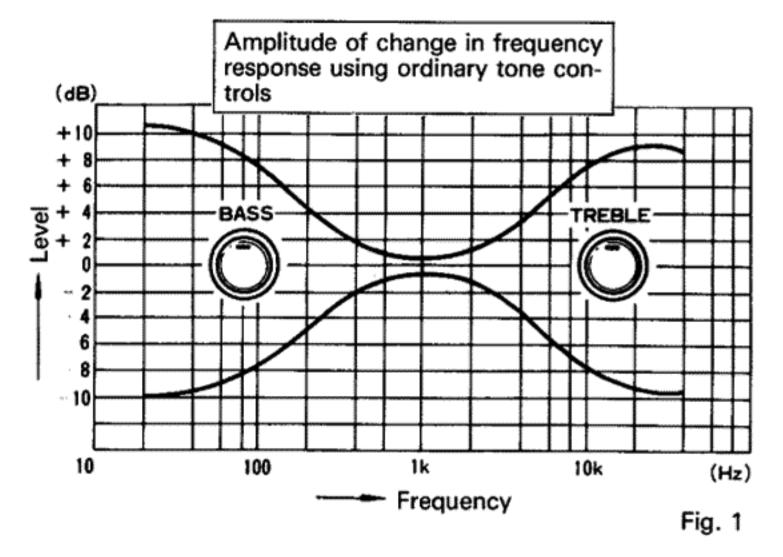
@ GRAPHIC EQUALIZER SELECTOR INDICATORS

The indicator corresponding to the GRAPHIC EQUALIZER SELECTOR switch pushed lights.

OPERATING THE GRAPHIC EQUALIZER

The graphic equalizer divides the music source into a number of frequency bands and boosts or attenuates the level at each of the frequencies, enabling much finer sound quality adjustments than ordinary tone controls and sound field compensation.

Some examples of operation are given below.



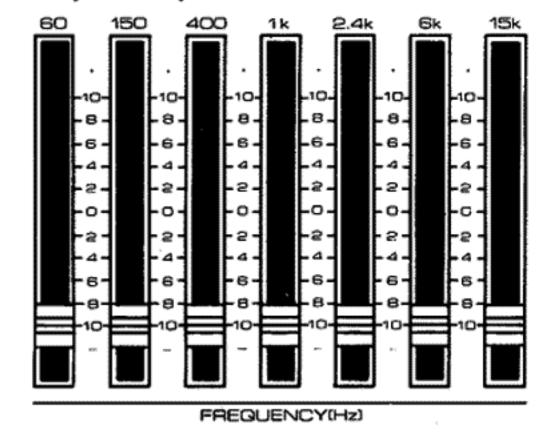
COMPENSATING FOR THE PLAYBACK FREQUENCY RESPONSE

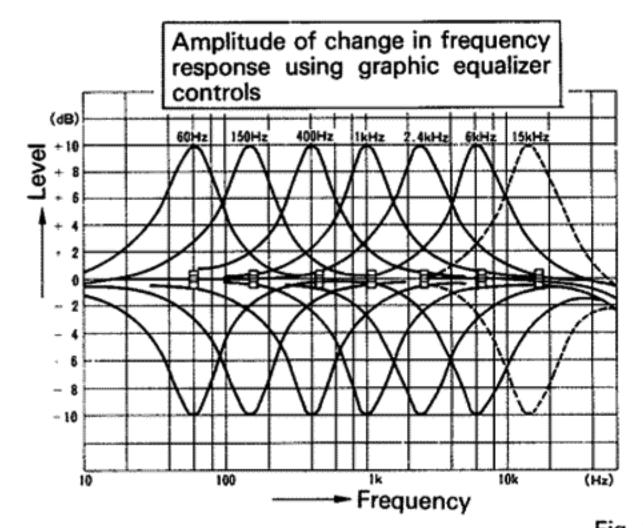
The frequency response of a phono-cartridge or speaker has peaks and dips in the high range and low range. It can be made flat by adjusting finely the controls on the graphic equalizer. (See Fig. 3).

2 IMPROVING THE ACOUSTICS OF THE LISTENING ROOM

The ideal listening room is one where the transmission frequency response is flat. In actual fact, however, the acoustics vary depending on the effects of the structure of the room and its furniture and on the listening position.

Graphic Equalizer Section





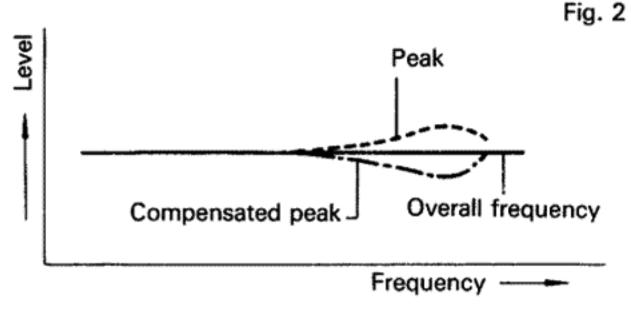
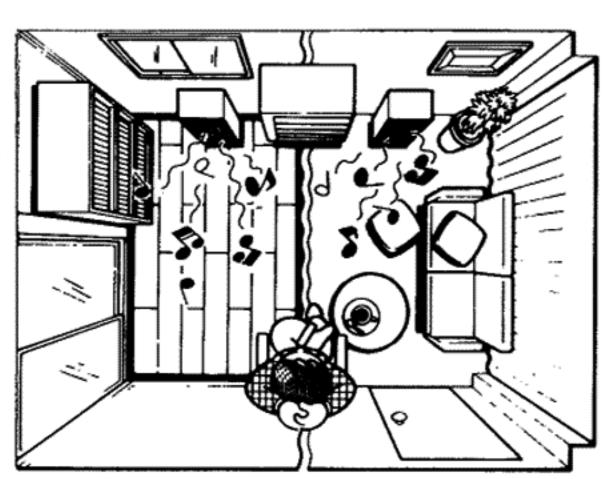


Fig. 3

Although there is minimal treble attenuation in a listening room surrounded by hard walls and windows and having a bare floor, the bass sounds are reflected to a great extent.

In rooms like this, turn up the 150 Hz control slightly.

In a room surrounded by drapes and with carpets on the floor, there is minimal reflection of the sound and both the bass and the treble are absorbed.



In rooms like this, turn up the 60 Hz control slightly and turn up the frequency controls above 2.4 kHz gradually.

The above examples are extremely general.

The acoustics undergo change in accordance with the furniture in the listening room, the height of the ceiling and the listening position, among other factors. Play the music and try operating each of the controls to produce the best effect.

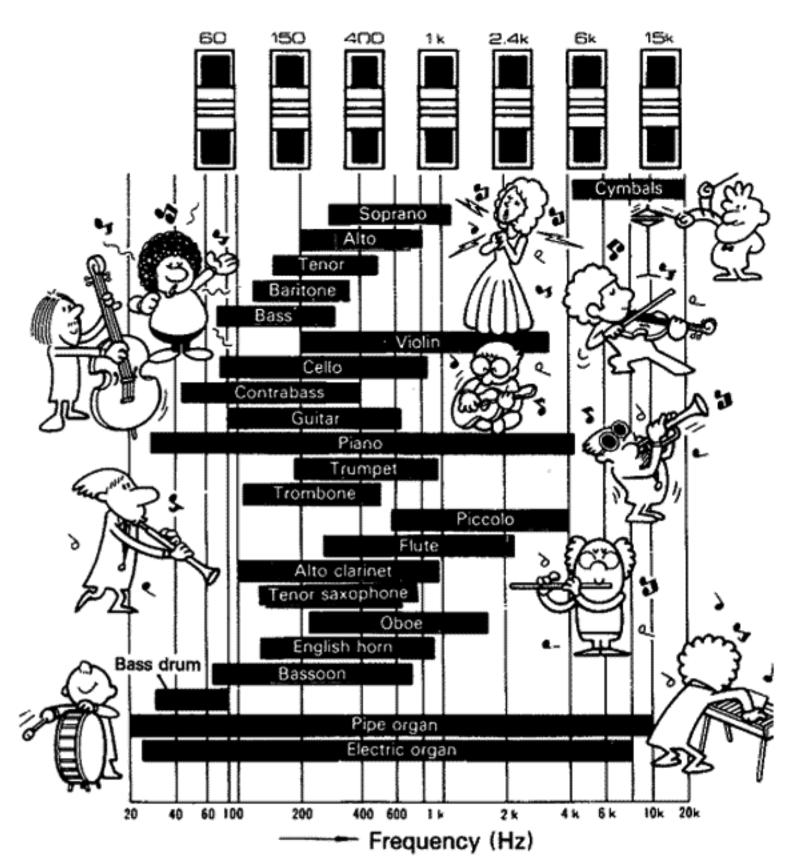
3 COLORING THE REPRODUCED SOUND

All instruments and vocals have their own frequency band, as shown in the figure.

By moving the controls up or down, the volume of the instruments preferred can be boosted or other instruments can be attenuated.

For instance, it is possible to boost the 60 Hz frequency and give the bass drum a greater "punch", or boost the 1 kHz frequency and position the vocals at the front. When the 6 kHz frequency is boosted, the cymbals and "high hat" sound much clearer.

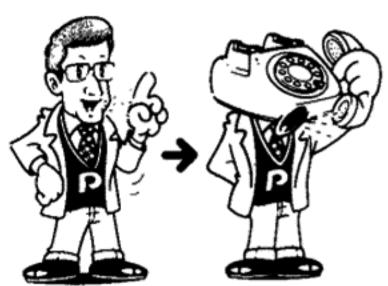
Instruments and vocals have a great many harmonic components along with the fundamental frequency band so you can have lots of fun operating the 7 controls to achieve the sound of your choice.



4 RECORDING TECHNIQUES USING GRAPHIC EQUALIZER

Coloring the sound of vocals or instruments

The sound of vocals and instruments can be colored at will by operating the controls. For instance, when the 400, 1 k and 2.4 k controls are raised and the other controls lowered, people's voices sound as if heard on a telephone.



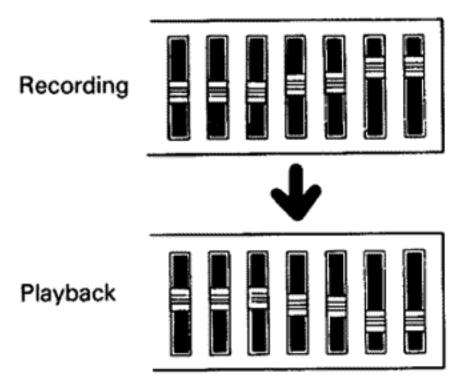
Preventing howl during mixing play

Any irritating howl during play can be prevented by lowering the knob corresponding to the frequency band in which the howl occurs.



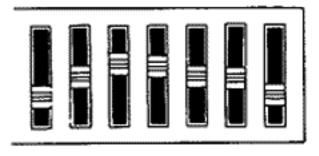
Noise can be reduced during recording and playback

When the high-range controls are boosted in step fashion during recording and then lowered in reverse fashion during playback, tape hiss and other highrange noise can be reduced.



Creating recorded tapes most compatible with the playback equipment

A sound with a greater "punch" can be recorded for playback on car stereo equipment if the ultra-low-range, which is hard to hear, is cut out and the midrange is boosted.



MIC MIXING AND ECHO EFFECTS

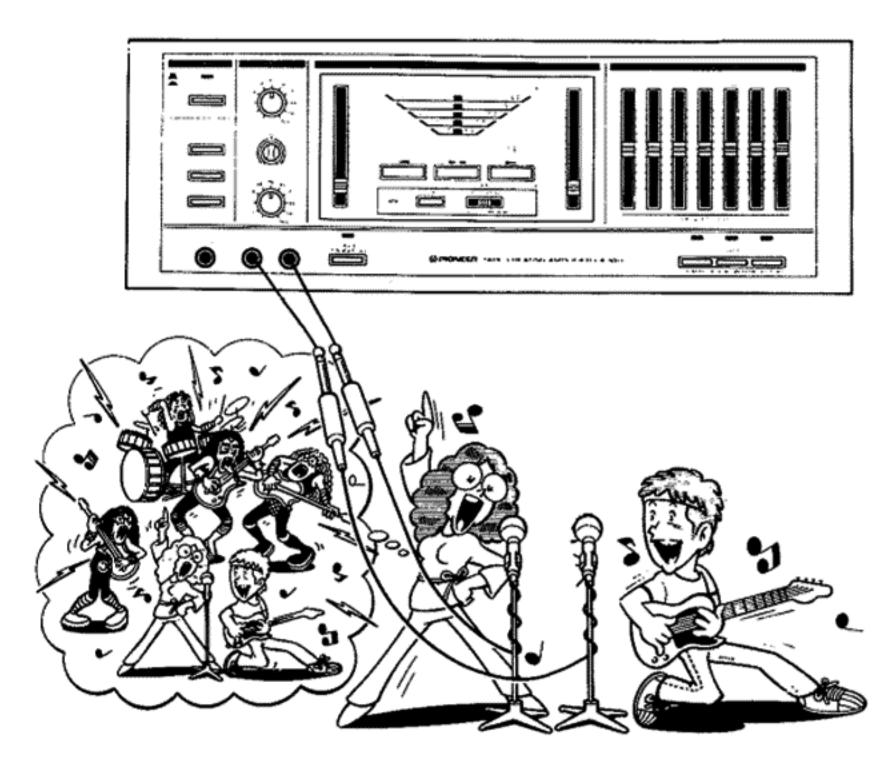
In general, mixing is the process of mixing one sound (signal) with another, in order to produce a new sound.

For instance, adjusting the volumes between a microphone and a record or tape playback is mixing. Singing along to a background recording is another typical example of mic mixing.

■ Mixing recording of a "jam session" with your favorite musicians

Preparations

- Prepare the program source (for instance, the player when mic mixing with a record or compact disc player) for operation (place the disc on the platter and operate so that play can start immediately) and select the function switch on the stereo amplifier that corresponds to the program source.
- When mic mixing with a tape, prepare the playback side (A) of the double cassette deck or the single deck player for operation (load the cassette tape and set to the playback mode), and press the ADAPTOR/TAPE 2 switch on the stereo amplifier.



Operation Sequence

- Set the tape deck or the turntable to the play mode (the sound can be monitored by connecting the headphones).
- Operate the TAPE level control or SOURCE level control to set the input level (in preparation) and set to the standby mode at the start of the desired program or track.
- 3 Plug the microphone into the MIC jack.
- 4 Start play. Adjust the MIC LEVEL control as desired and adjust the degree of mixing.
- 5 Operate the graphic equalizer, mic ECHO control or PANPOT control to obtain the desired effects.
- Record the sound on the recording side of the double cassette deck or on the single deck used for recording.

It is difficult to achieve the desired degree of mic mixing and timing immediately. Try a number of times until it sounds right. The fader controls can be used to provide a smooth, professional connection between the programs. For details, refer to page 12.

USING THE ECHO EFFECT

When you sing in the bath or similar location, you can almost sound professional—unlike the way you normally sound. This is due to the echo effect produced. With this unit, you can adjust the echo effect exactly as desired.

Making the most of the echo effect when singing along

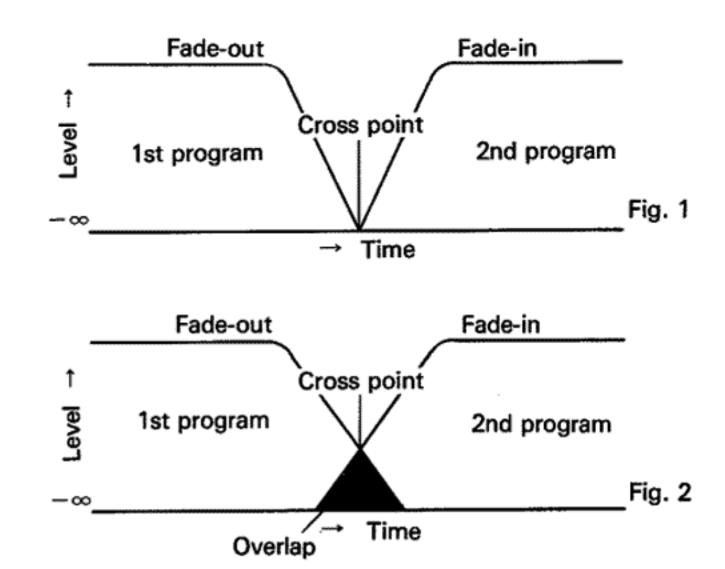
The important point about the volume of a singalong tape is to set it slightly lower than the level for vocals. This improves the mixing balance and does full justice to the echo effect.

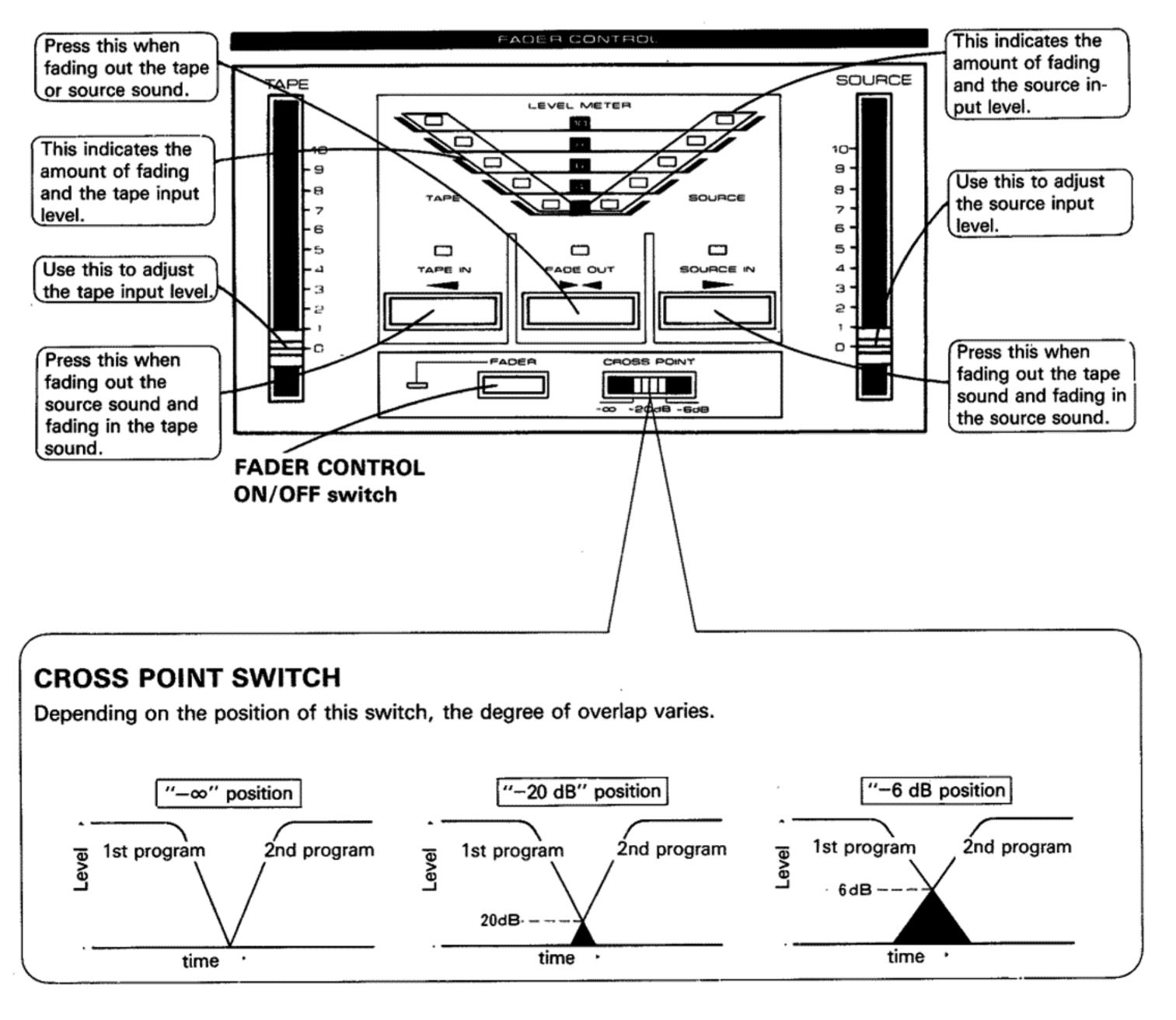
USING THE FADER CONTROLS

Fader Controls

"Fade-in" refers to a gradual increase in the sound; "fade-out" refers to a gradual reduction of the sound. The functions of this unit's fader controls can be used to fade in the next program (song, piece of music) while fading out the sound at the end of the program before. (Fig. 1)

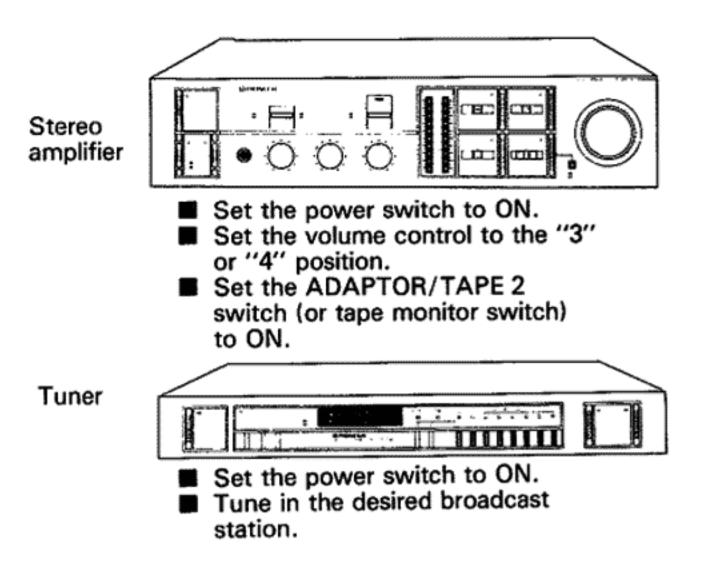
The CROSS POINT switch can be used to make the fade-out and fade-in modes overlap. For instance, start fading out immediately after the first bar of the first program and then fade in the second program. (Fig. 2)



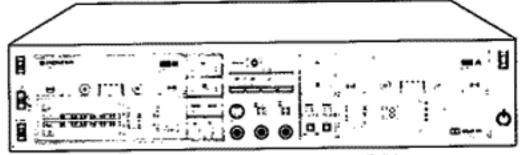


BEFORE OPERATION

Set up the components as follows before operation.

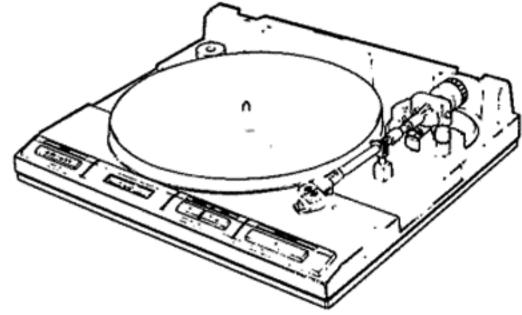


Double cassette tape deck



- Set the power switch to ON.
- Ready the pre-recorded cassette tape and load it into the playback deck.

Turntable



- Set the power switch to ON.
- Ready the record and place it on the platter.
- Set the turntable so that the desired track can be started at any time (manual play).

Operation Sequence

The basic fader control operation is described below.

Example:

Using the fader controls for the first tape program and second source (record play) program

- Set the tape deck to the playback mode and adjust the tape's input level (the level meter winks).
- 2 Set to the playback standby mode at the start of the desired program on the tape.
- 3 Set the turntable to the play mode and adjust the source input level (the level meter winks).
- 4 Operate the tonearm lifter and place the tonearm above the start of the desired track on the record.
- Keep the tape fade-in switch (TAPE IN ◄) in the depressed position.
- 6 Press the FADER CONTROL ON/OFF switch to the ON position.
- 7 Select the degree of overlap using the CROSS POINT switch.

- Since the first program is at the tape side, play back the tape first.
 - When the part of the tape arrives where the playback sound is to be faded out:
- Dower the tonearm onto the record using the turntable's tonearm lifter and start play.
- Quickly press the source fade-in switch (SOURCE IN ►).

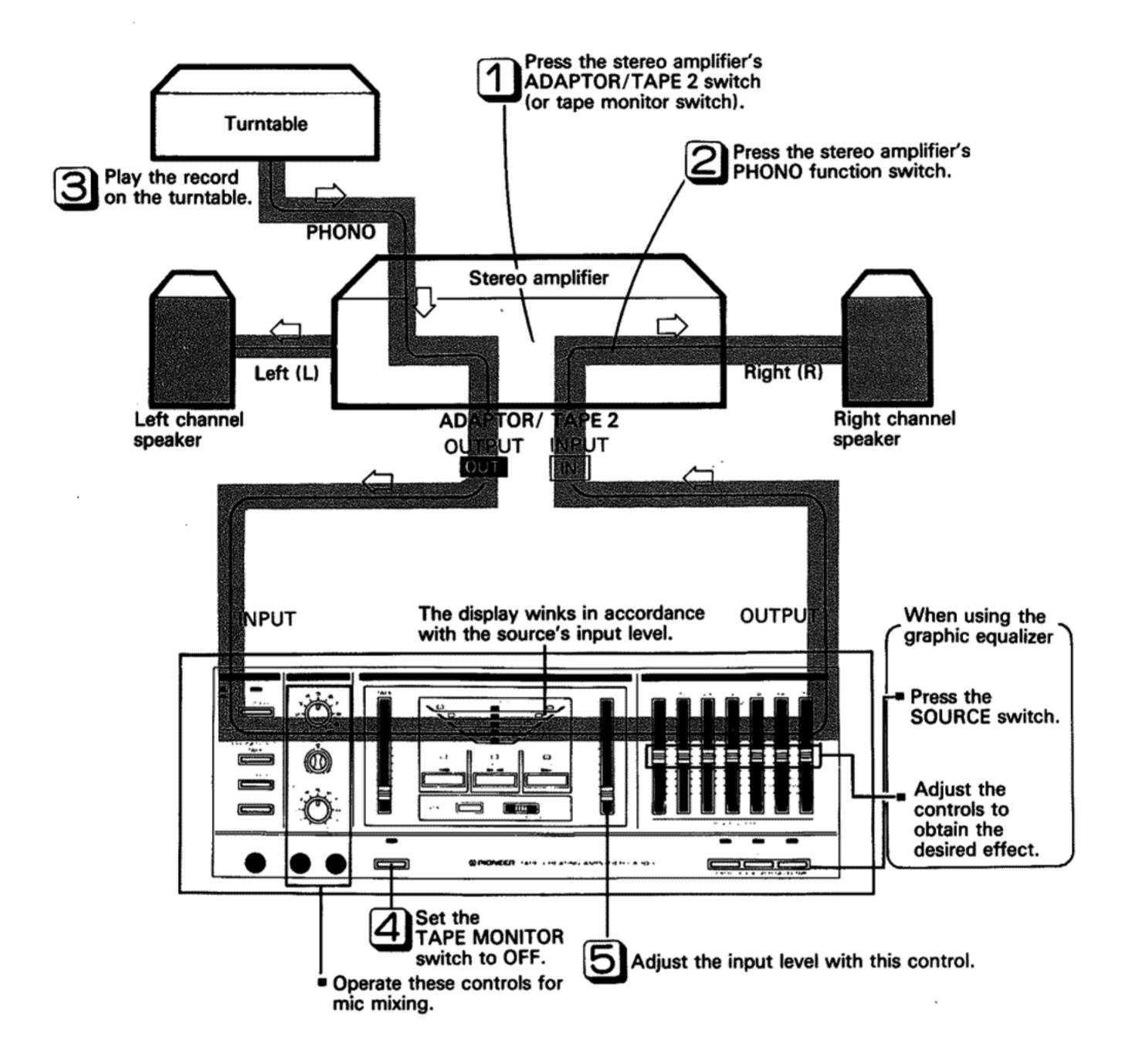
The sound of the first program on the tape is gradually faded out and the second program at the source side is overlapped with the first program, in accordance with the position of the CROSS POINT switch.

Recording continues if the recording tape deck (double/single) is kept in the recording mode.

INDIVIDUAL OPERATIONS

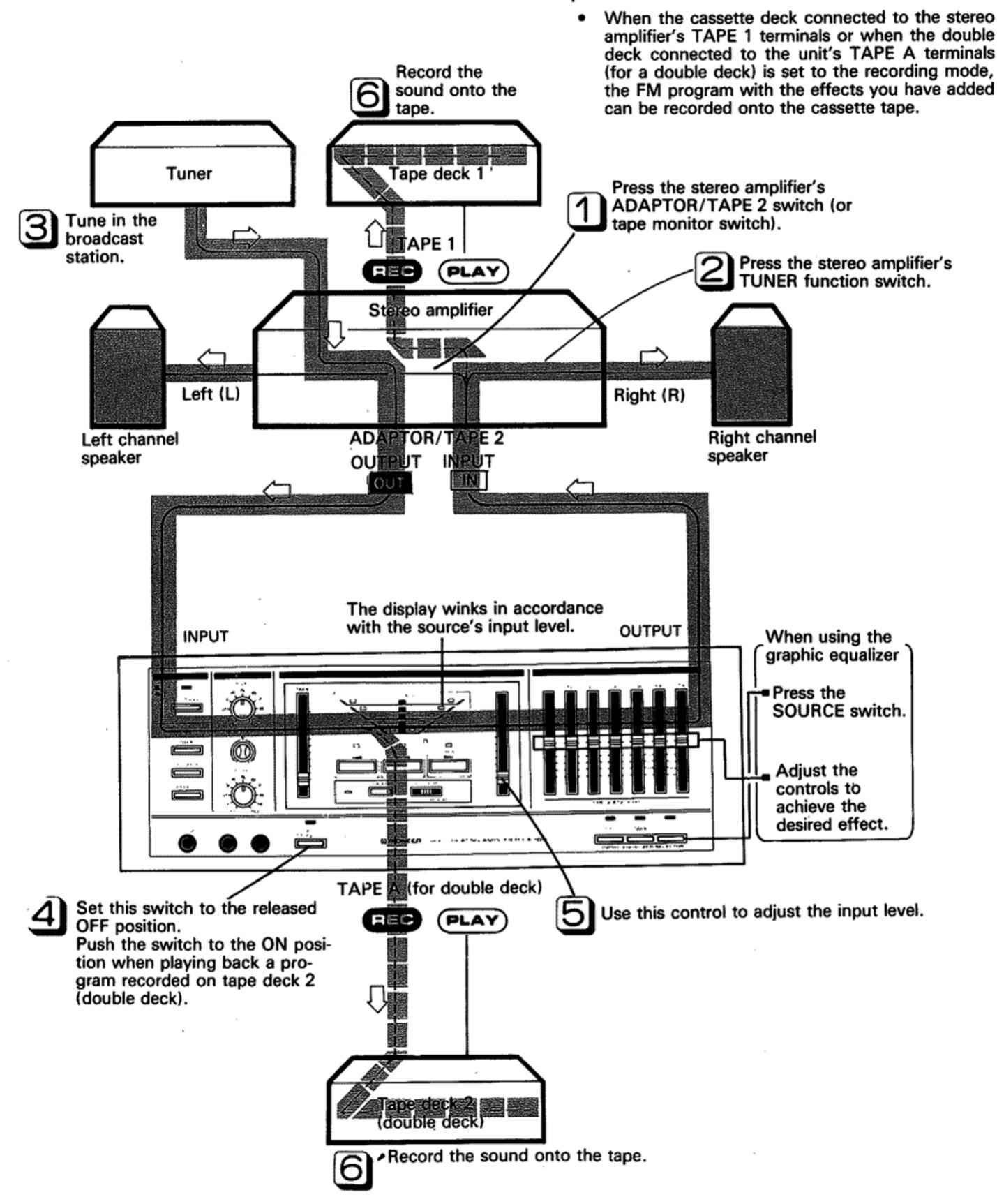
Record play in conjunction with the tape-creating amplifier

Follow the numerical sequence.

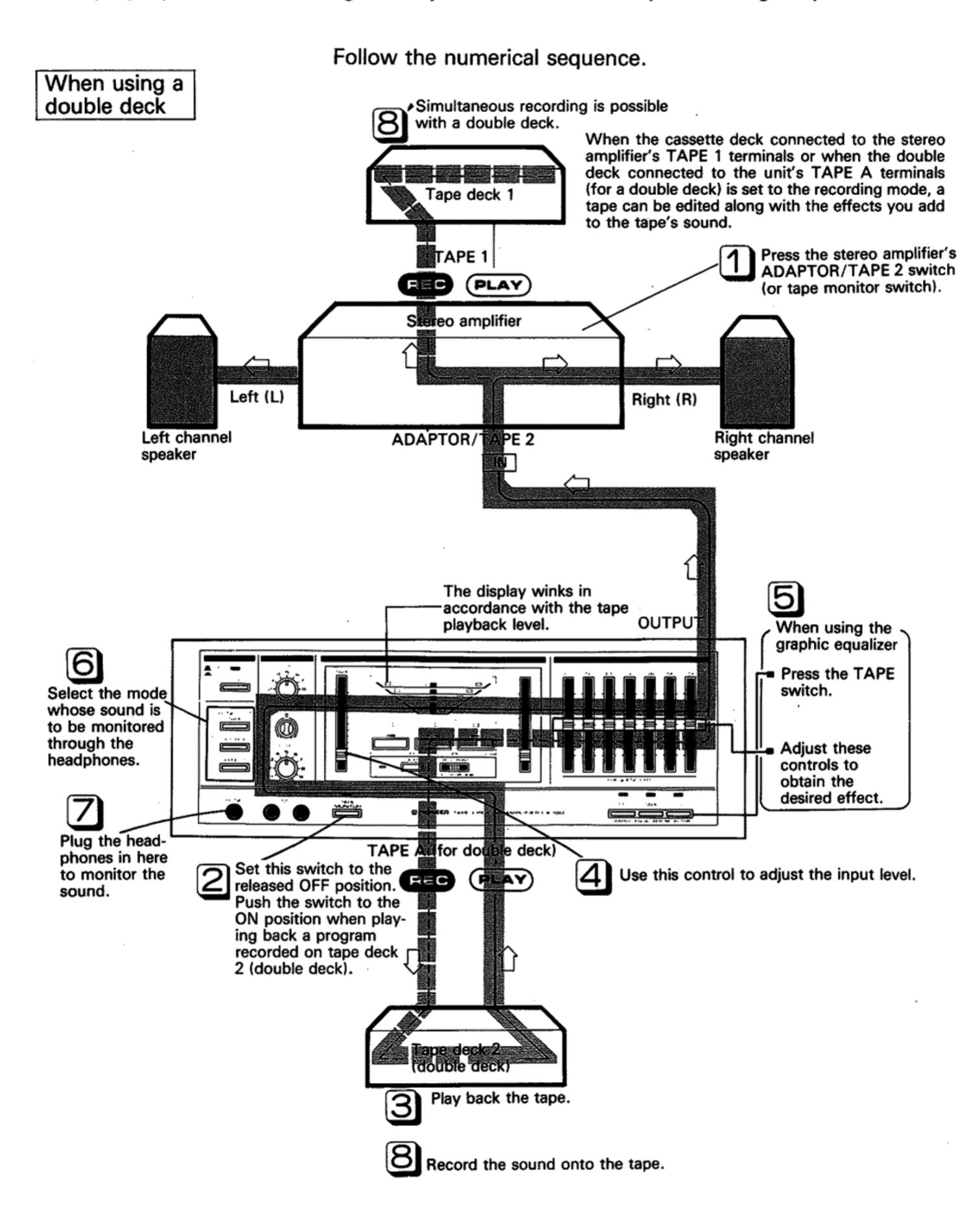


Tape recording an FM program off-the-air in conjunction with the tape-creating amplifier

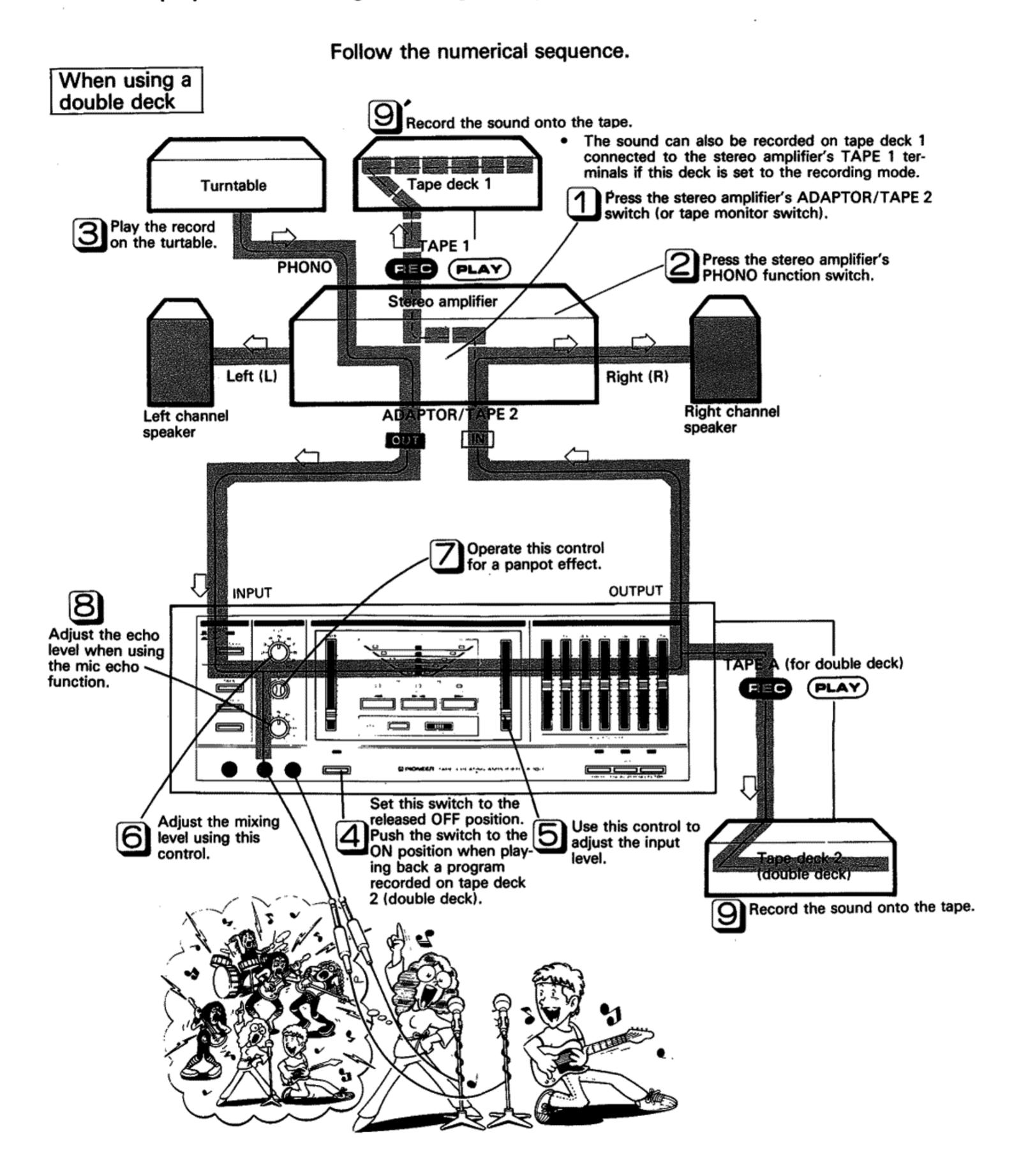
Follow the numerical sequence.



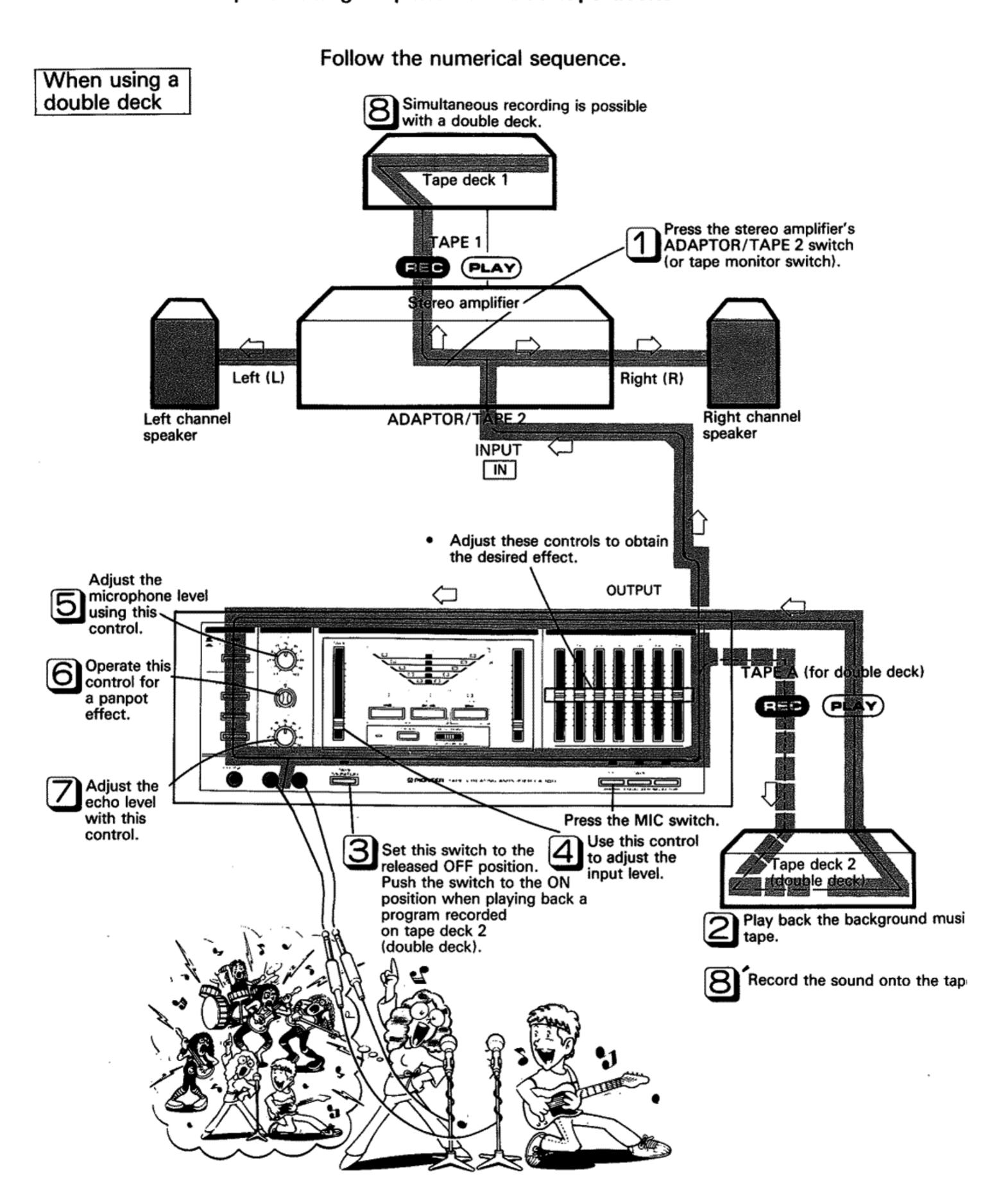
Tape playback and editing in conjunction with the tape-creating amplifier



Record play and mic mixing recording in conjunction with tape-creating amplifier



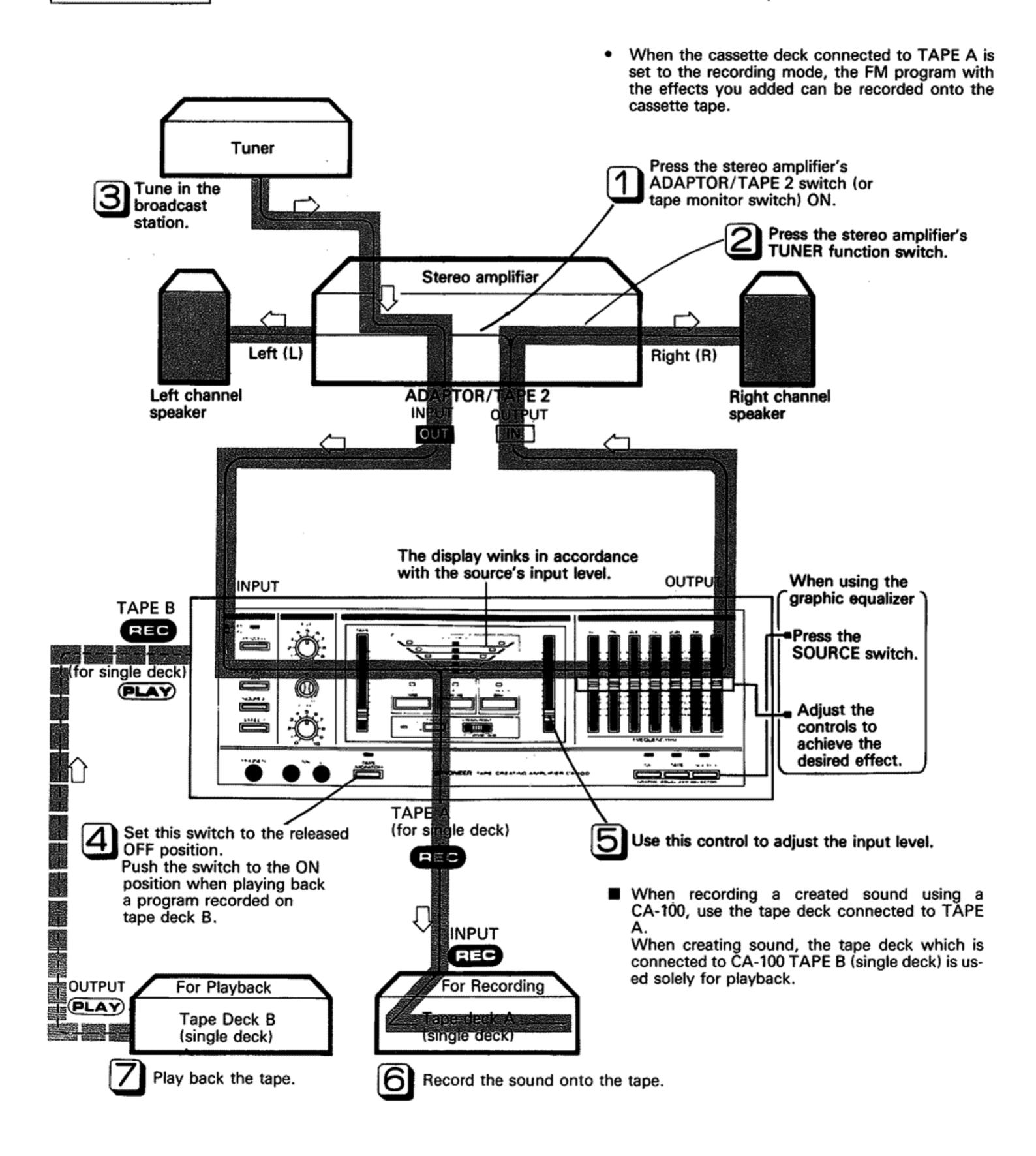
Singing along to a background music tape and mic mixing recording in conjunction with the tape-creating amplifier and two tape decks



Tape recording an FM program off-the-air in conjunction with the tape-creating amplifier

When using a single deck

Follow the numerical sequence.



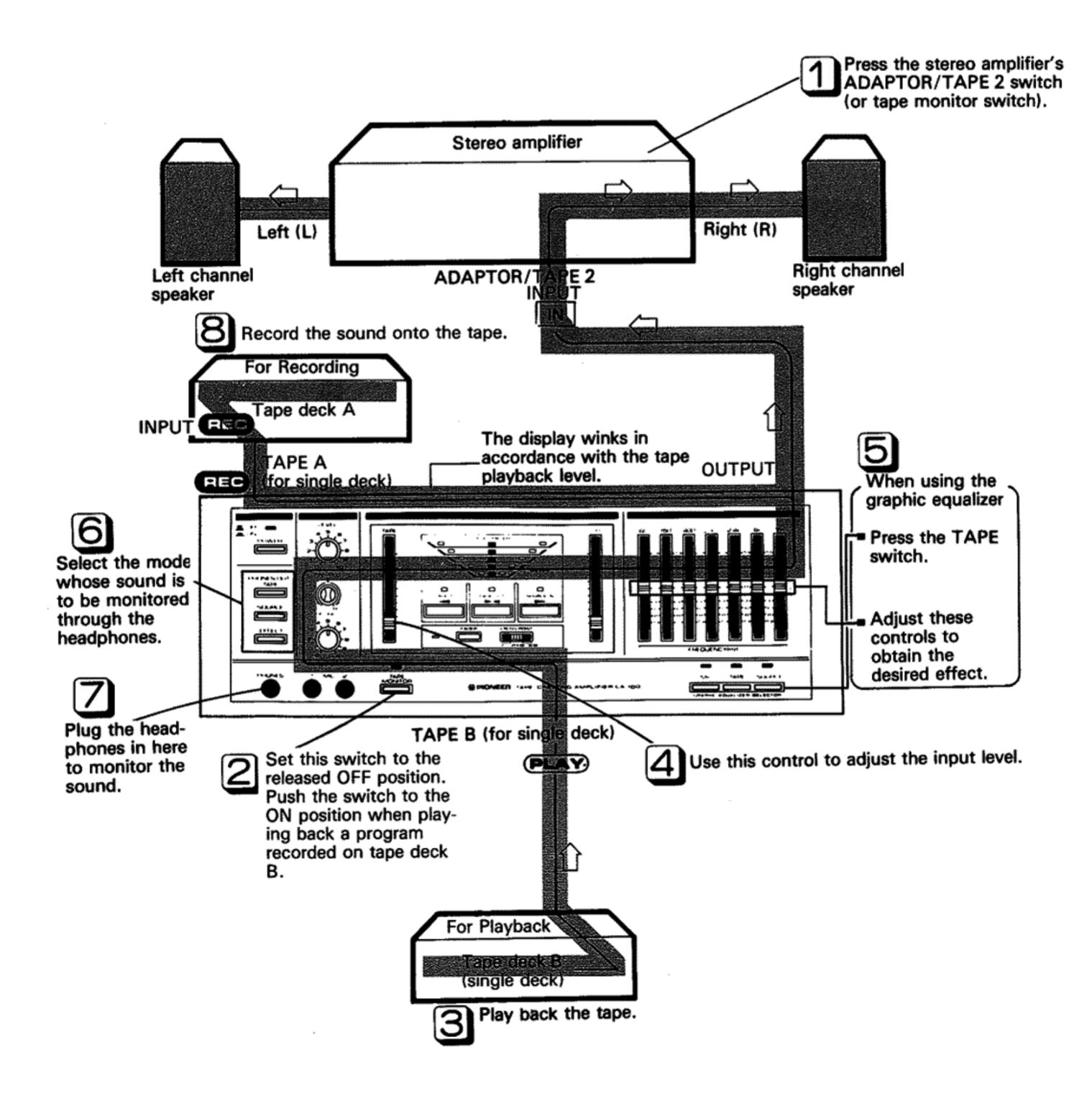
■ Tape playback and editing in conjunction with the tape-creating amplifier

Follow the numerical sequence.

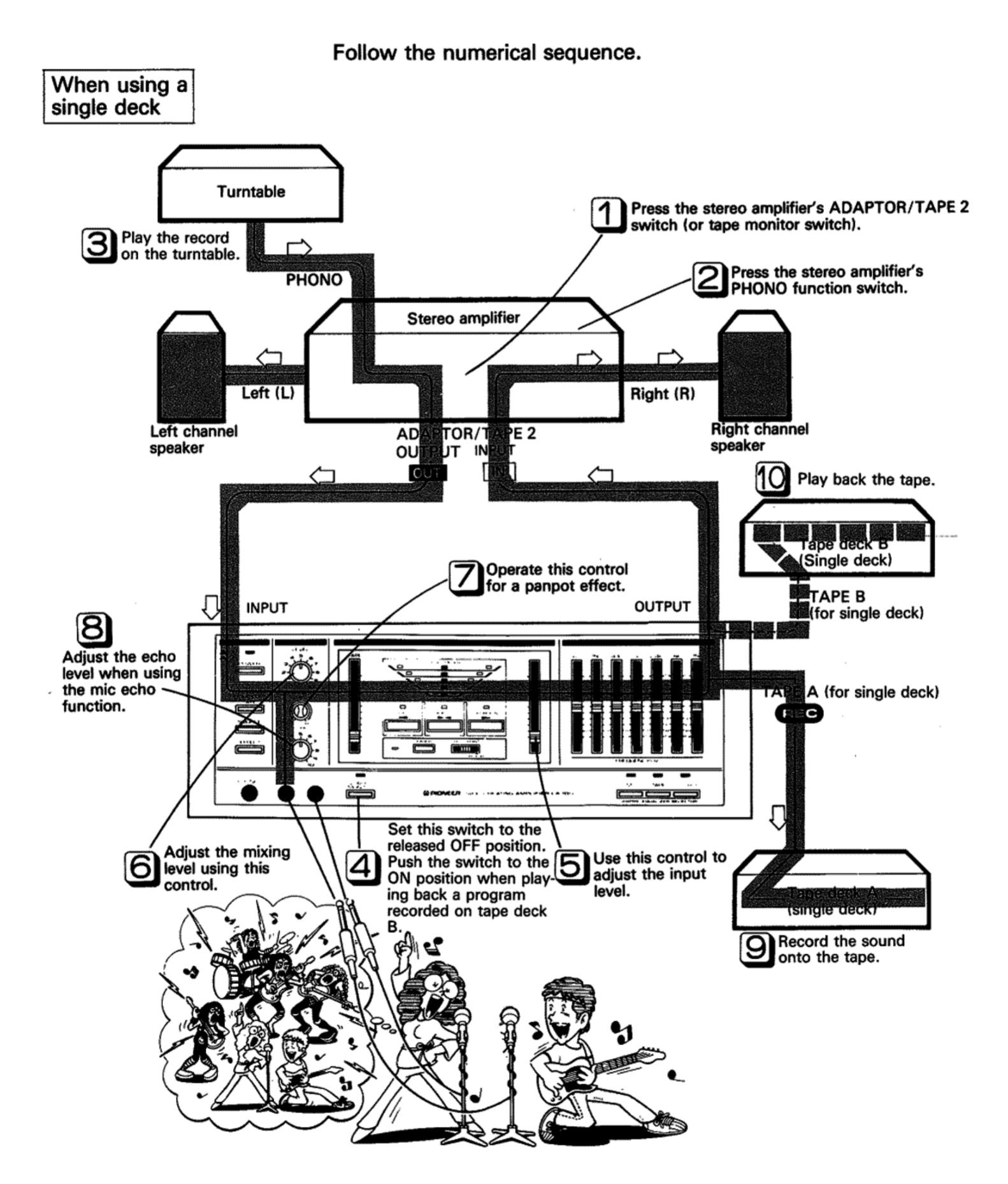
When using a single deck

Copy from TAPE 1 to 2

As a rule, when tape copying using 2 single decks, the recordig should be done by playing back the sound from B to A. Recording from A to B is not possible.



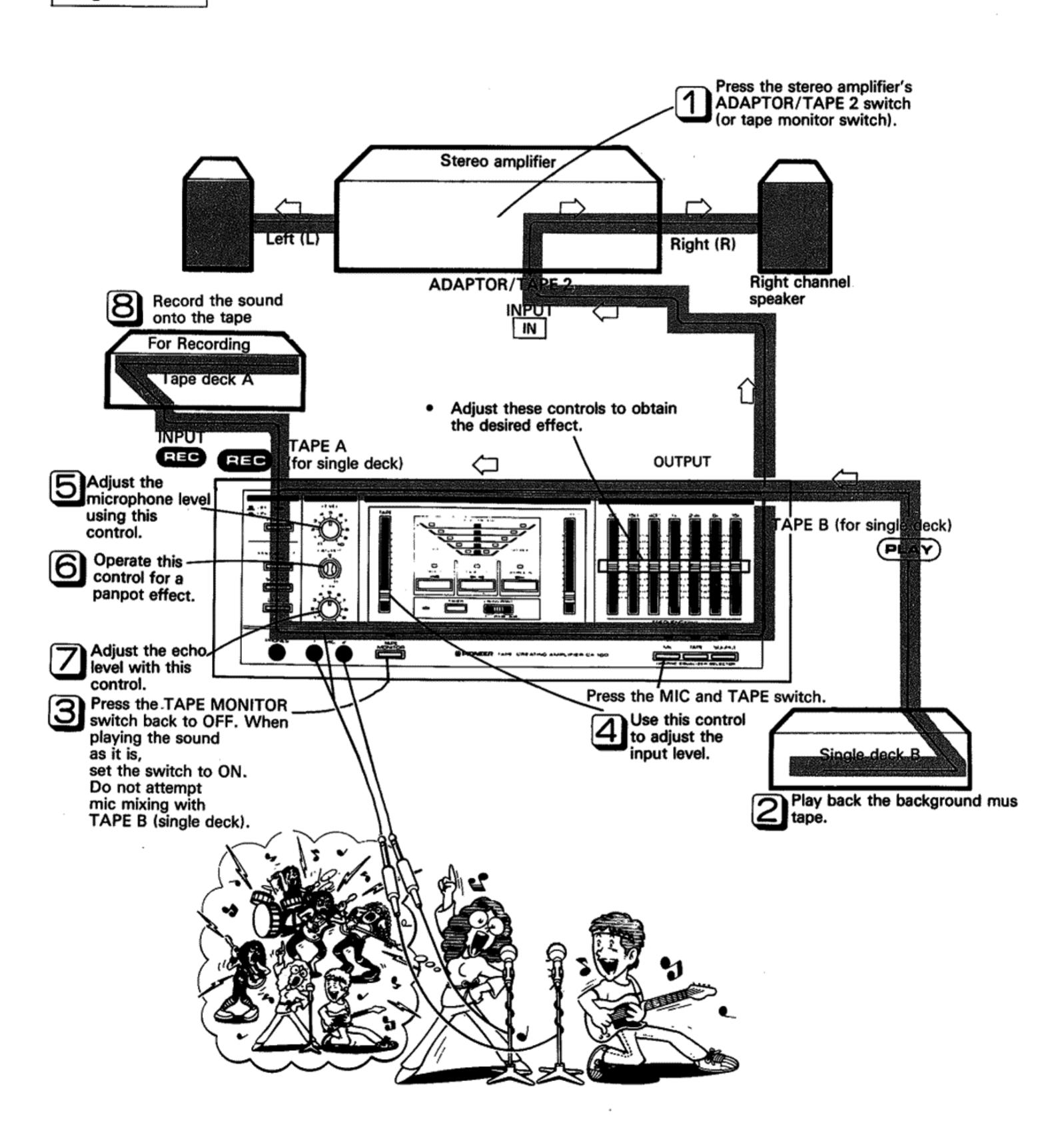
Record play and mic mixing recording in conjunction with tape-creating amplifier



Singing along to a background music tape and mic mixing recording in conjunction with the tape-creating amplifier and two tape decks

When using a single deck

Follow the numerical sequence.



TROUBLESHOOTING

If you think that the unit is malfunctioning, perform the following checks.

Often incorrectly following operating procedures are to blame. The cause may also lie outside the unit itself. Check the other components and electrical appliances being used at the same time.

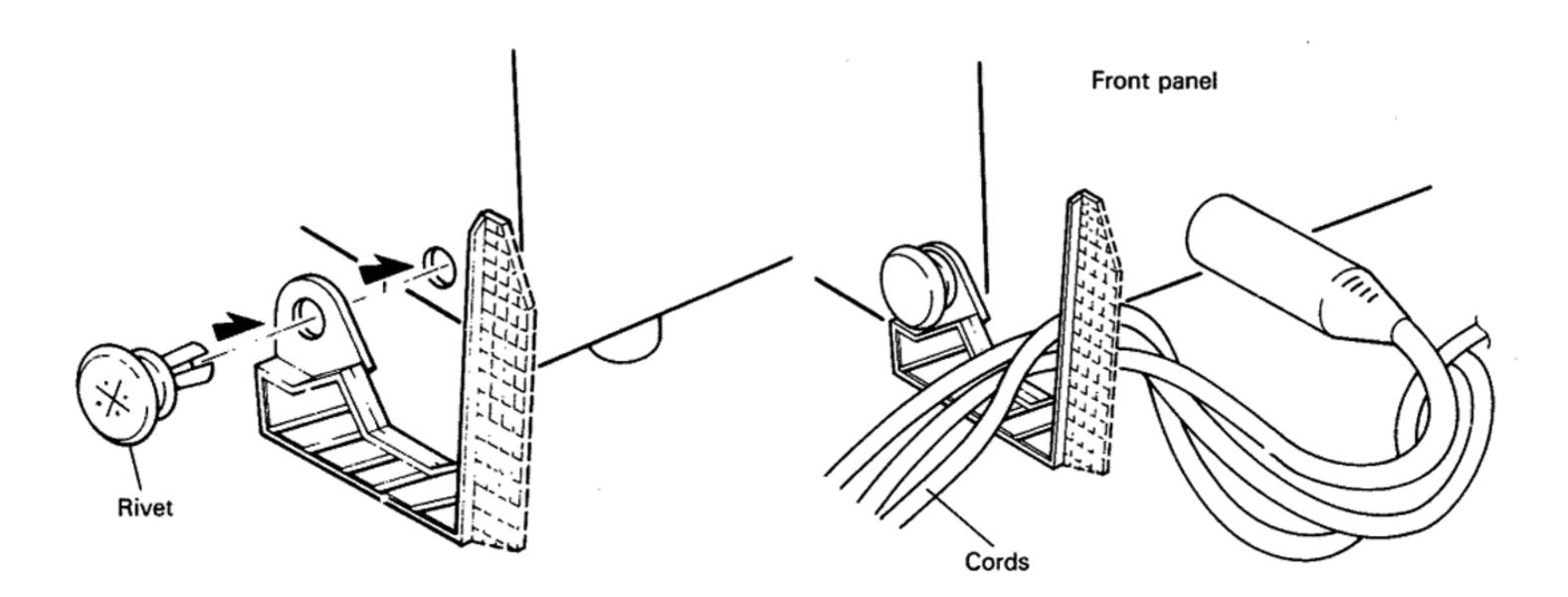
If the problem is not remedied after following the checklist below, contact your dealer or the nearest Pioneer Service Center.

Trouble	Possible cause	Remedy
No sound from	1. Is power switch OFF?	Set power switch to ON.
speakers.	2. Is power cord disconnected?	Connect power cord properly to power outlet.
	3. Is tape monitor switch ON?	3. Set switch to OFF.
	4. Is any connecting cord disconnected from input or output terminal?	4. Connect pin plugs of cord properly.
	5. Is stereo amplifier's ADAPTOR/ TAPE 2 switch at OFF?	5. Set switch to ON.
	6. TAPE or SOURCE input level control at "0" position?	6. Adjust level control.
Graphic equalizer does not function.	Are all graphic equalizer selectors (MIC, TAPE, SOURCE) OFF?	Push selector corresponding to mode in which equalization effect is to be added.
No mic mixing.	Is MIC level control at minimum "0" position?	Adjust control in accordance with playback sound of source or tape.
	Is switch on connected microphone at OFF?	2. Set switch to ON.
	3. Is unit's TAPE MONITOR switch at ON?	3. Set switch to OFF.

USING THE CORD HOLDER

As shown in the figure below, place the cord holder against the left panel of the CA-100, taking care to align the holes. Then pass the part marked with an asterisk (*) through the holes to secure.

As shown in the figure below, pass all the cords connected to the front panel over the cord holder and secure.



SPECIFICATIONS

INPUT (Sensitivity/Impedance) INPUT, TAPE PLAY (-3 dB fader setting)
OUTPUT (Level/Impedance) OUTPUT
Total Harmonic Distortion (1 kHz, 1.5 V) TAPE, SOURCE
Frequency Response TAPE, SOURCE 10 Hz — 80 kHz 1 dB MIC 1, 2 150 Hz — 10 kHz 1 dB
Graphic Equalizer Section
Center Frequencies
MIC 1, 2 69 dB

Miscellaneous

Power Requirements KU, KC models AC 120 Volts, 60 Hz R, R/G models
~AC 110 V-120 V/220 V-240 V (switchable),
50/60 Hz
HB model a.c. 240 Volts 50/60 Hz
Power Consumption
KU, KC models 20 Watts (max.)
R, R/G models 20 Watts (max.)
HB model 25 Watts (max.)
Dimensions 420(W) x 158(H) x 226(D) mm
16-9/19(W) x 6-1/4(H) x 8-7/8(D) in.
Weight 4.2 kg (9 lb 4 oz)

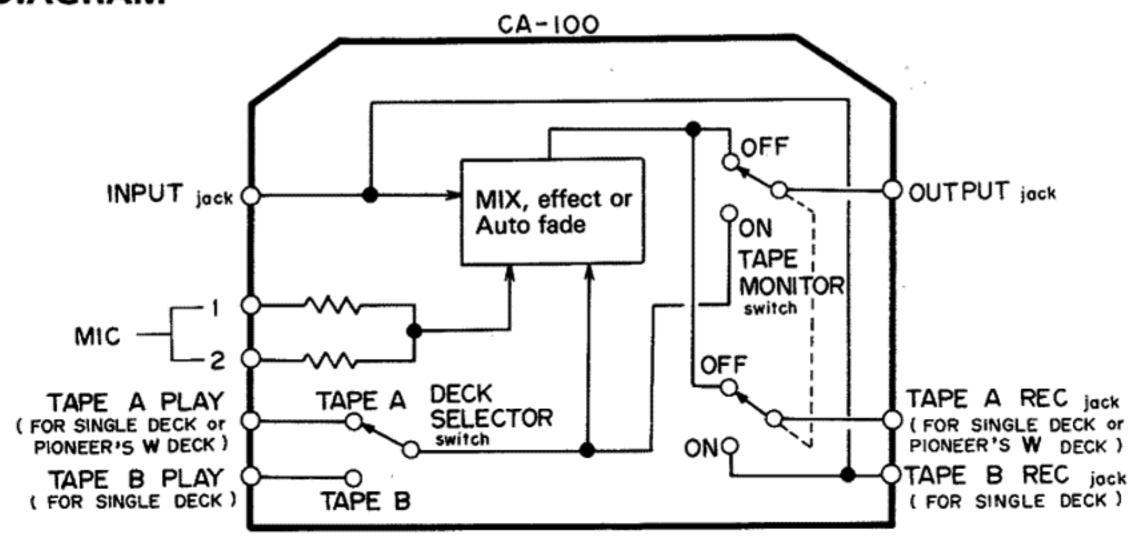
ACCESSORIES

Pin-plug connecting cords		2
Cord holder	• • • • • • • • • • • • • • • • • • • •	1
Operating Instructions		1

NOTE:

Specifications and design subject to possible modification without notice.

BLOCK DIAGRAM



PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS (USA) INC. 1925 E. Dominguez St., Long Beach, California 90810 U.S.A. PIONEER ELECTRONIC [EUROPE] N.V. Keetberglean 1, 2740 Beveren, Belgium PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia