

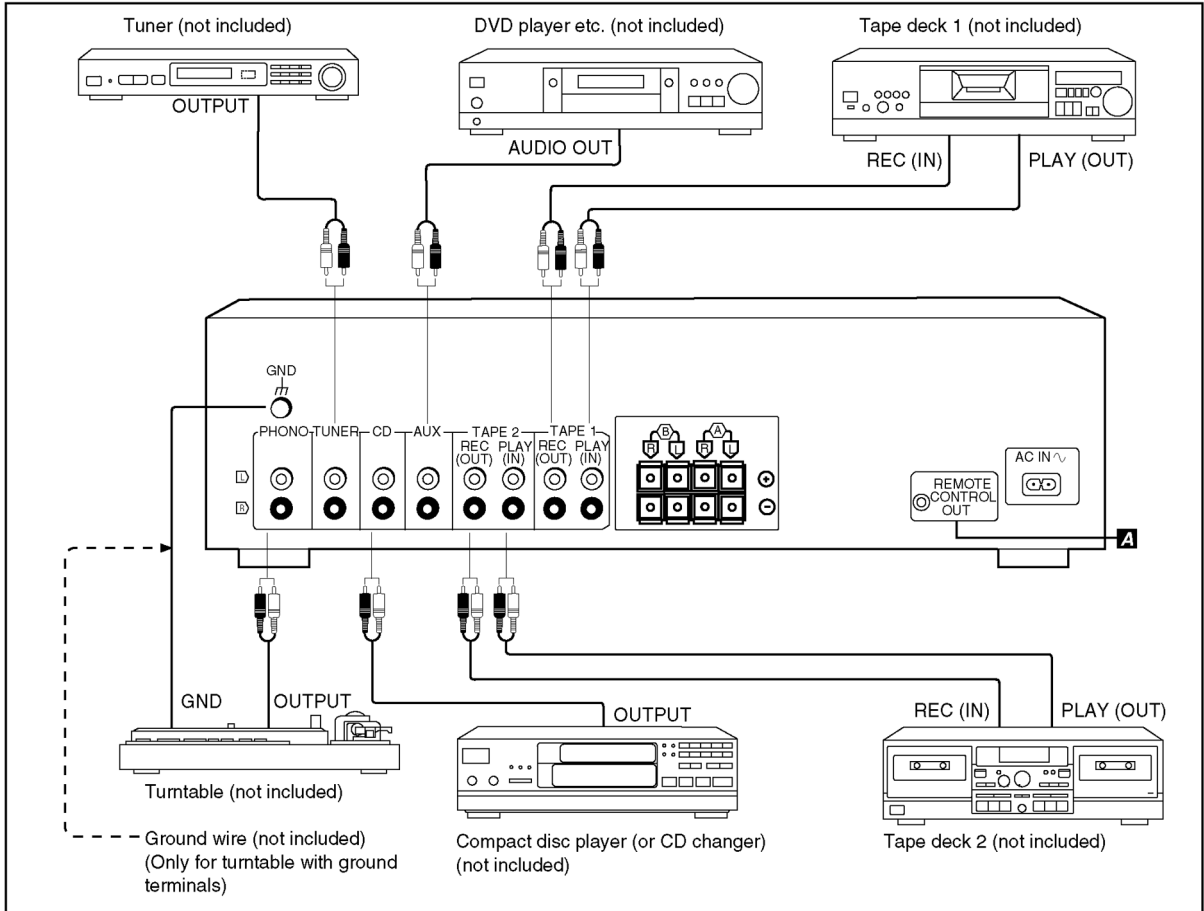


# Connecting audio components

Make sure that the power supply for all components has been turned off before making any connections.

## Stereo connection cable

White (L)   
 Red (R) 



# Connecting speakers and the power supply

**A**

## Connecting the speakers

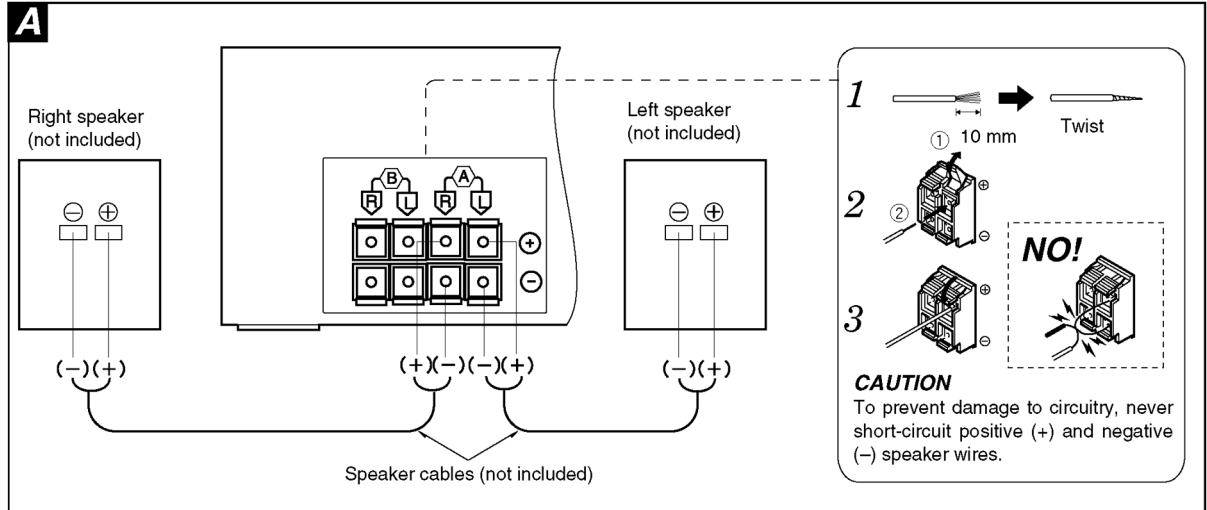
Be sure to only connect positive (+) wires to positive (+) terminals, and negative (-) wires to negative (-) terminals.

### [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



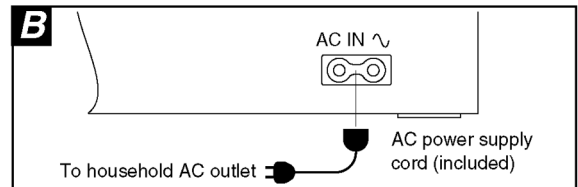
## Connecting the AC power supply cord

**B**

(For United Kingdom)

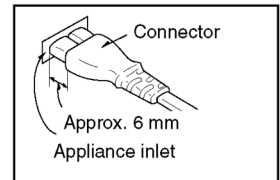
**BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD BEFORE CONNECTION.**

Connect the AC power supply cord only after all other connections have been made.

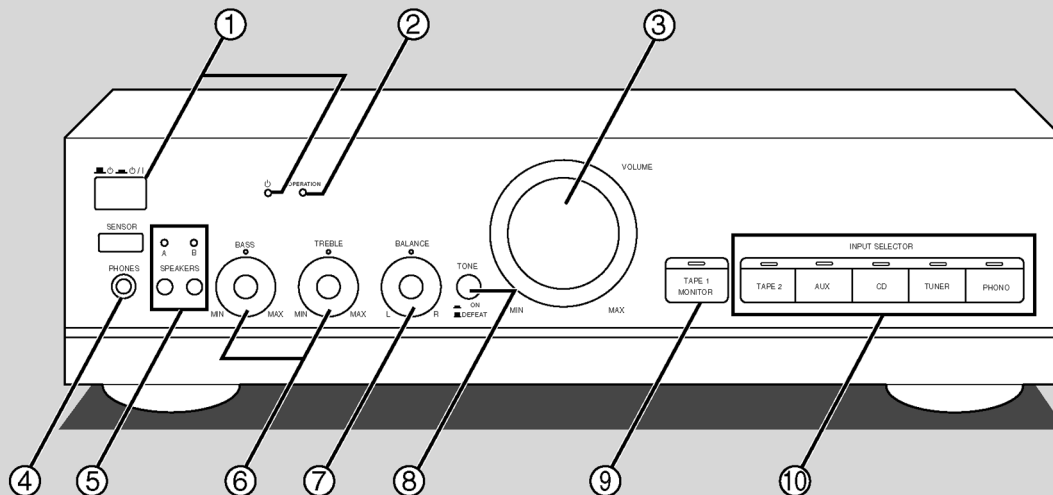


### Insertion of Connector




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.




## Front panel controls




No.	Name
-----	------

**① Unit on/off button (   ) and standby indicator (  )**

Press to switch the unit from on to standby mode or visa versa.

 (off): The unit is in standby mode.

 (on): The unit is on.

In standby mode, the unit is still consuming a small amount of power.

When the unit is connected to the AC mains supply, the indicator lights up in standby mode and goes out when the unit is turned on.

No.	Name
-----	------

**② Operation indicator (OPERATION)**

When the power is switched ON, this indicator illuminates after about 2 seconds when the unit is in the operating condition.

**③ Volume control (VOLUME)**

**④ Headphone jack (PHONES)**

**⑤ Speaker select buttons/indicators (SPEAKERS)**

**⑥ Tone controls (BASS, TREBLE)**

**⑦ Balance control (BALANCE)**

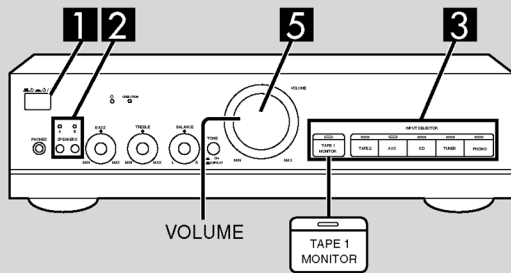
**⑧ Tone control button (TONE)**

**⑨ TAPE 1 MONITOR button/indicator (TAPE 1 MONITOR)**

**⑩ Input select buttons/indicators (INPUT SELECTOR)**

## Listening to sound

Before operation, set [VOLUME] to the [MIN] position.



**1** Press to switch on the power.

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

The corresponding indicator(s) will illuminate.

**3** Press to select the desired source.

The corresponding indicator will illuminate.

**TAPE 1 MONITOR:** To listen to tape (TAPE 1). The tape monitor indicator will illuminate. (See below.)

**TAPE 2:** To listen to tape (TAPE 2).

**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.

**4** Start the desired source.

(Refer to the appropriate operating instructions for details.)

**5** Turn [VOLUME] to adjust the volume level.

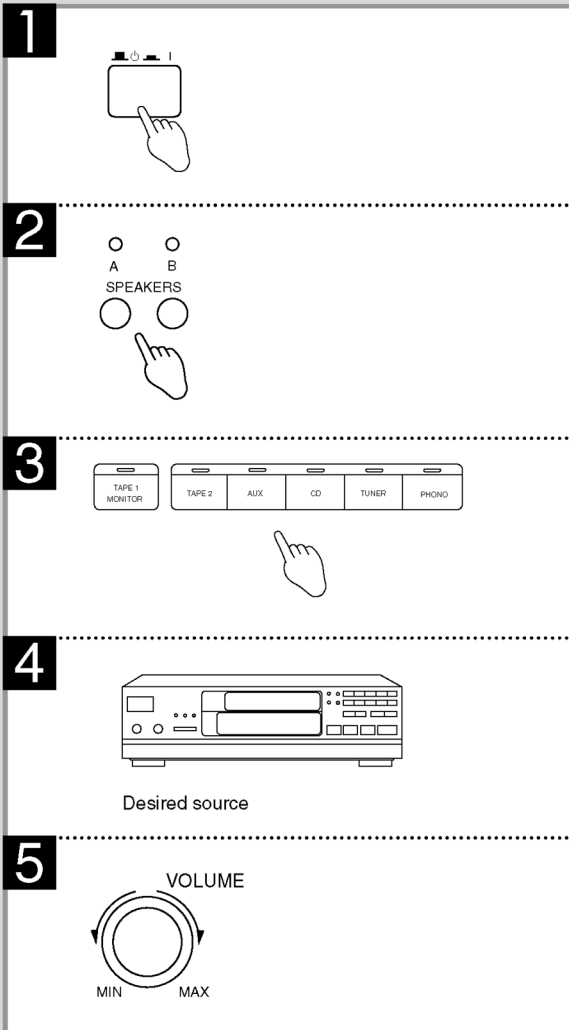
### After listening is finished

Be sure to reduce the volume level, and turn the unit off by pressing the unit on/off button.

### When tape 1 monitor indicator illuminates **A**

This indicates that the tape monitor function of this unit is ON.

To listen to sources other than a tape [TAPE 1], be sure to turn off the indicator by pressing [TAPE 1 MONITOR].



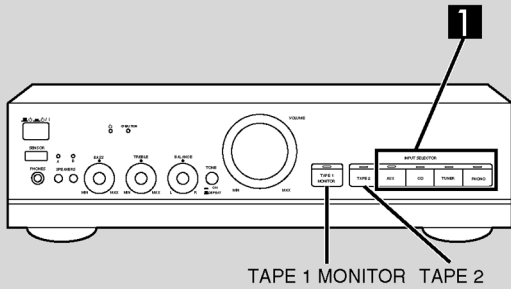
**A**

Illuminates

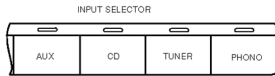


# Recording

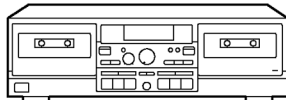
It is possible to record from units which are connected to the rear [AUX], [CD], [TUNER] or [PHONO] terminals to cassette tape decks which are connected to the [TAPE 1] and/or [TAPE 2] terminals.



1

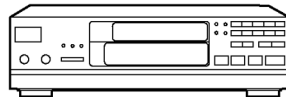


2



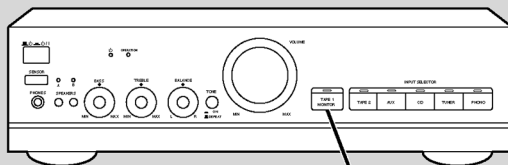
Tape deck

3



Desired source

A



TAPE 1 MONITOR



1

## Select the source to be recorded.

**AUX:** To record from equipment connected to the [AUX] terminals.

**CD:** To record compact discs.

**TUNER:** To record radio broadcasts.

**PHONO:** To record phono discs.

2

## Begin recording on tape deck.

3

## Begin the source to be recorded.

### Note

If recording to both decks simultaneously, do not press [TAPE 1 MONITOR]. (If this button is pressed, it will not be possible to record to the deck which is connected to the [TAPE 2] terminals.)

### Tape-to-tape recording

It is possible to record from tape deck 2 to tape deck 1 or vice versa.

### Recording from deck 1 to deck 2

① Press [TAPE 1 MONITOR] so the [TAPE 1 MONITOR] lamp lights.

### Note

Ensure a source other than [TAPE 2] is selected. (Recording cannot be done if [TAPE 2] is selected.)

② Start recording on deck 2.

③ Start playback on deck 1.

### Recording from deck 2 to deck 1

① Press [TAPE 2] so the [TAPE 2] lamp lights.

② Start recording on deck 1.

③ Start playback on deck 2.

### To check the sound recorded while recording

A

If a cassette deck with 3 heads is connected to the [TAPE 1] terminals, it is possible to check the sound being recorded onto the tape.

Press [TAPE 1 MONITOR] (indicator will illuminate) on this unit and set the monitor button on the tape deck to [TAPE].

Press [TAPE 1 MONITOR] once again to turn it off.

## 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 dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
<b>Common problems</b>		
<b>No sound is heard when the power is switched ON.</b>	The power cord plug is not completely inserted.	<ul style="list-style-type: none"> <li>• Confirm that the power cord plug is connected completely.</li> </ul>
	Connections to the speakers, etc. are incomplete or incorrect.	<ul style="list-style-type: none"> <li>• Check that all wires are correctly connected.</li> </ul>
	The source hasn't been selected.	<ul style="list-style-type: none"> <li>• Press the selector button.</li> </ul>
	The speakers haven't been selected.	<ul style="list-style-type: none"> <li>• Press a speaker button (A or B).</li> </ul>
	The tape monitor function is on. (TAPE 1 MONITOR indicator is illuminated)	<ul style="list-style-type: none"> <li>• When listening to a source other than the tape deck (TAPE 1), press TAPE 1 MONITOR so that the indicator is switched off.</li> </ul>
<b>When listening to stereo sound, the sound lacks depth (i.e. thin bass, tinny sound).</b>	One of the speakers is connected out of phase [(+) → (-), (-) → (+)].	<ul style="list-style-type: none"> <li>• Reconnect the speakers maintaining proper polarity [i.e., (+) → (+), (-) → (-)].</li> </ul>
<b>When listening to stereo sound, the left and right sounds are reversed.</b>	The left and right speaker connections, source connections, or graphic equalizer connections are reversed.	<ul style="list-style-type: none"> <li>• Check all connections and correct them if necessary.</li> </ul>
<b>A low-pitched noise ("hum" or "buzz") is heard.</b>	The power cord or a fluorescent light, etc., is near the connection wires.	<ul style="list-style-type: none"> <li>• Try separating this unit as far as possible from the electric appliance.</li> </ul>
<b>Sound is not heard from one of the speakers.</b>	The speaker wires are disconnected.	<ul style="list-style-type: none"> <li>• Check and correct the connections of the speaker wires.</li> </ul>
	The balance control is set too far to one side.	<ul style="list-style-type: none"> <li>• Set so that sounds are heard at the center, between the speakers.</li> </ul>
<b>Sound stops during a performance, or no sound is heard when the power is switched ON.</b>	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.	<ul style="list-style-type: none"> <li>• Switch OFF the power, and, after determining and correcting the cause, switch ON the power once again.</li> <li>• Use speakers of the proper impedance rating.</li> </ul>

## Maintenance

**To clean this unit, wipe with a soft, dry cloth.**

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

- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically impregnated cloth, read the instructions that came with the cloth carefully.