

Technics

Compact Disc Player

SL-P1200

OPERATING INSTRUCTIONS



DIGITAL
COMPACT
disc
DIGITAL AUDIO

Before operating this product, please read these instructions completely.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS
APPLIANCE TO RAIN OR MOISTURE.

Thank you for purchasing the SL-P1200.
For optimum performance and safety, please read these instructions carefully.

Dear Stereo Fan

Technics, The Science of Sound, welcomes the challenge of new audio technologies and brings you a multitude of world-renowned, high-quality audio components.

Like our stereo high-speed editing cassette decks with dbx*, Computer Drive New Class A receivers, quartz drive linear tracking turntables, and revolutionary Honeycomb Disc speakers. All are backed by our time-honored commitment to imagination, value and quality.

Technics captures the power of new ideas and turns them into realities—with digital Compact Disc players that bring the search for perfect sound to fruition. And A/V receivers that can integrate both audio and video technologies to forever alter the home entertainment system.

The Technics list of advanced audio components continues. From digital PCM processors, quartz tuners and preamps to the world's first touch-sensitive graphic equalizer, Technics is a shining example of audio technology at its best—ready to take you to new dimensions in sound.


*dbx is a registered trademark of dbx, Inc.

The model number and serial number of this product can be found either on the back or bottom of the unit.

Please note them in the space provided below and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER: SL-P1200


SERIAL NUMBER:




CAUTION


RISK OF ELECTRIC SHOCK

DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

 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.

Caution

This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

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Accessories

Stereo connection cable	1
Remote control unit	1
Batteries	2

Product service

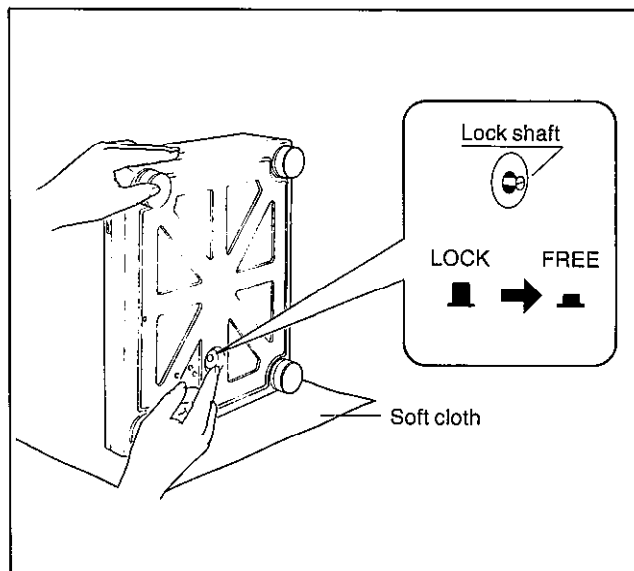
■ Warning concerning removal of covers

The unit should be serviced by qualified technicians only. No service information is provided for customers. Your product is designed and manufactured to ensure a minimum of maintenance. However, should your unit ever require service, a nationwide system of factory servicenters and AUTHORIZED INDEPENDENT SERVICENTERS is maintained to support your product's warranty.

(In the U.S.A., call 1-800-447-4700 to locate the MSC Authorized Servicenter nearest you.)

Before use

1. Place a soft cloth under the unit to protect it from scratches.
2. Press the lock shaft on the bottom panel to the in (FREE) position (■ → ■).



NOTE:

IF THE UNIT IS TRANSPORTED AGAIN, PERFORM THE FOLLOWING STEPS:

- 1) Remove the disc from the holder.
- 2) Pull the lock shaft to the out (LOCK) position (■ ← ■).

CAUTION:

Do not transport the unit without locking the lock shaft.
SEVERE DAMAGE WILL RESULT.

Suggestions for safety

Before using this unit, be sure to read applicable items of the operating instructions and these safety suggestions carefully; and afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

1. **Avoid places where there is water or humidity.**
Do not use this unit near a bathtub, wash basin, swimming pool, or the like. Damp basements should also be avoided.
2. **Do not allow water or any foreign object to get inside this unit.**
Do not place small metal objects or anything containing liquid on or near the unit.
3. **Avoid placement of the unit where it will be exposed to the direct rays of the sun, or where ventilation is inadequate.**
Do not place this unit in a bookcase or between cabinets, unless proper ventilation is provided, or where curtains or furniture may obstruct the ventilation holes.
4. **Place this unit away from heat-emitting appliances.**
Never place this unit on or near a radiator, heat register, stove, or any other heat-emitting equipment (including amplifiers).
5. **Placement**
Place the unit on a stable, level, vibration-free shelf or stand.
6. **Use of a cart or stand.**
When deciding on a cart or stand, be sure to use only the cart or stand recommended by the manufacturer.
7. **Wall or ceiling installation.**
If the unit is to be mounted on a wall or ceiling, be sure to do so only as recommended by the manufacturer.
8. **Check the voltage rating of this unit before connecting the unit to a power supply.**
Be sure to connect the unit only to the type of power supply indicated in the operating instructions, or as indicated on the unit itself.
9. **Care of the power cord and plug.**
Take care that the cord is not bent sharply (especially near its connection to the unit or near the plug), that nothing is placed on it, and that it is not pinched or crushed. Never take hold of the plug or cord if your hand is wet, and always be sure to grasp the plug body when connecting or disconnecting it.
10. **If the unit will not be used for a long time.**
Be sure to disconnect the power cord.
11. **Maintenance**
Refer to the operating instructions for details.
12. **Never attempt repairs yourself:**
 - (a) If the power cord or plug is damaged.
 - (b) If a foreign object or liquid has fallen into the unit.
 - (c) If the unit has been exposed to rain.
 - (d) If the unit does not function normally, or if operation shows an unusual change.
 - (e) If the unit has been dropped and the cabinet or chassis is damaged, etc.Unplug the power cord and consult a qualified technician, the dealer from whom the unit was purchased, or the nearest servicer.
13. **Repairs**
Except for adjustments explained in the operating instruction, do not attempt any repairs yourself. Be sure to request service from a qualified technician, your dealer, or nearest servicer.
14. **Grounding or polarization**
Precautions should be taken so that the grounding or polarization means of this equipment is not defeated.

Concerning compact discs

Handling precautions

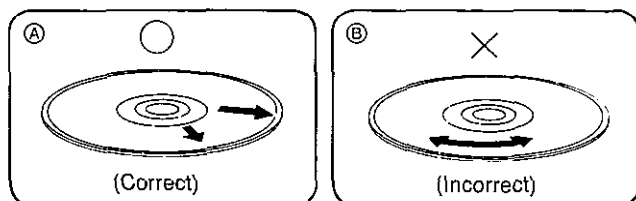
Only compact discs having this mark can be used with this unit.



Observe the following precautions to enjoy the same outstanding sonic performance from your Compact Discs for many years.

- Be careful not to scratch the surface with fingernails or other sharp objects, particularly when inserting and removing discs from their cases.
- Do not bend the disc.
- Do not use record cleaning sprays or static electricity prevention liquids.
- Fingerprints, dirt and scratches can cause skipping and distortion. If the surface is soiled, clean gently with a soft, damp (water only) cloth, then wipe dry.

Always wipe the disc from the center outward, never in a circle.



(In compact discs, circular scratches along a line of pits (B) are more likely to cause errors than straight scratches across many lines of pits (A).)

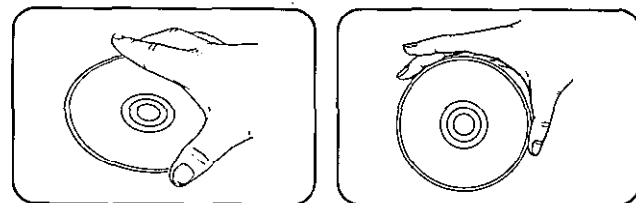
- Do not wipe the disc with benzene, thinner or any other solvent.
- If the disc is brought from a cold environment into a warm room, moisture may form on the disc. Wipe this off with a soft, dry, lint-free cloth before using the disc.
- Do not dry discs with a hair dryer.
- Do not write on the label side with a ball-point pen, hard pencil or other writing utensil.

Also do not stick a label or paper on the disc.

(Be particularly careful not to damage the playing surface of the disc from the label side.)

Holding compact discs

- Always hold the disc by the edges to avoid soiling the surface with fingerprints.



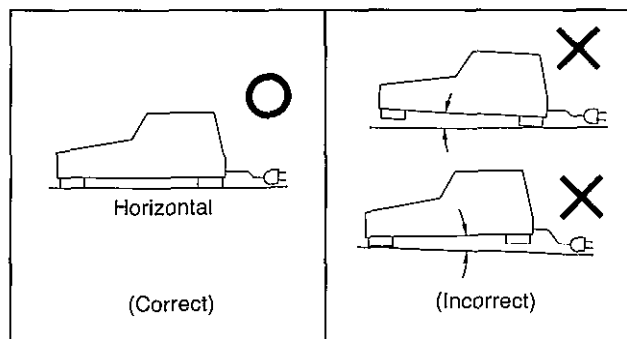
Storage precautions

- Be sure to store discs in their cases to protect them from dust, scratches and warping.
- Do not place or store discs in the following places:
 - 1) Locations exposed to direct sunlight.
 - 2) Humid or dusty locations.
 - 3) Locations directly exposed to a heat outlet or heating appliance.
 - 4) In the glove compartment or on the rear ledge of an automobile.

Installation

- This unit incorporates many sensitive optical components. To enjoy optimum performance at all times, avoid using this unit under the following conditions.

- In a closed vehicle or other location where the temperature could exceed 100°F (40°C).
- In very cold places (below 40°F; 5°C).
- For long periods of time in direct sunlight.
- In very humid locations.
- Near a heat outlet or heating appliance.
- In dusty or smoky locations.
- In locations prone to vibrations.
- On an unstable or uneven surface.
- Near appliances generating strong magnetic fields.
- Within reach of children.
- In locations where the rear panel is less than 10 cm (about 4") away from the wall or back of an audio rack.
- For reliable performance, be sure to place the unit on a flat level surface. Not doing so may cause the unit to malfunction.

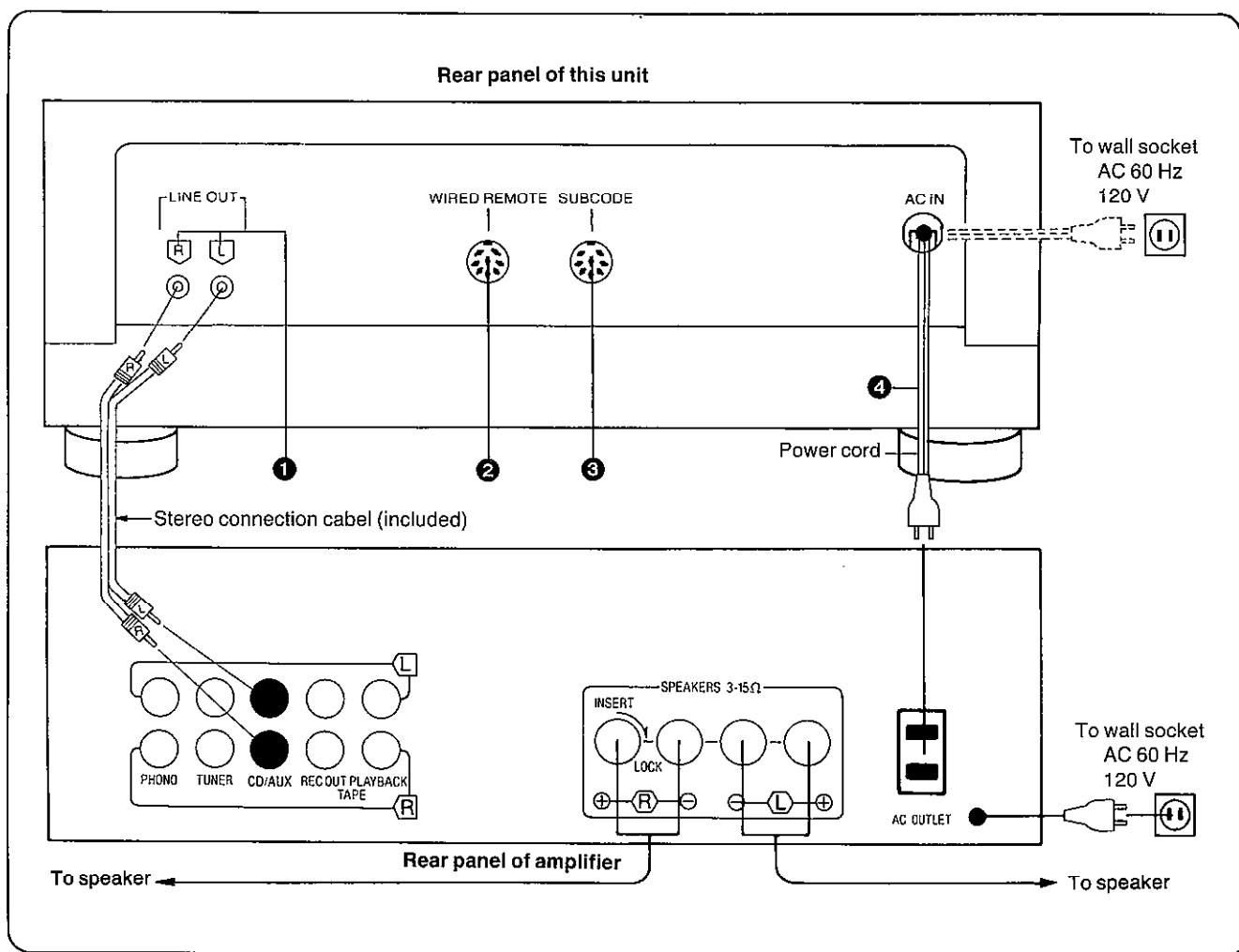


■ Do not place near a tuner or television.

This unit uses high frequency signals and can cause interference with radio and television reception. If this occurs, move this unit farther away from the radio or television, or change from an interior to an exterior television antenna.

Connections

1. Make sure your hands are dry when making connections.
2. Turn power off to all components before making connections.
3. Make all connections firmly.
4. Be sure to read the operating instructions for all units connected.



① Line out terminals (LINE OUT)

These are the audio output terminals.

- Connect the line out terminals to the CD, AUX or TAPE PLAYBACK terminals on your amplifier or receiver.
- Do not connect the line out terminals to the PHONO terminals of your amplifier or receiver.

② Wired remote control terminal (WIRED REMOTE)

A wired remote control unit (option) is connected to this terminal. This terminal is used when the unit is operated using a remote control unit. (Play, stop and pause operations can be performed.)

③ Subcode socket (SUBCODE)

The compact disc subcode signal is delivered through this socket.

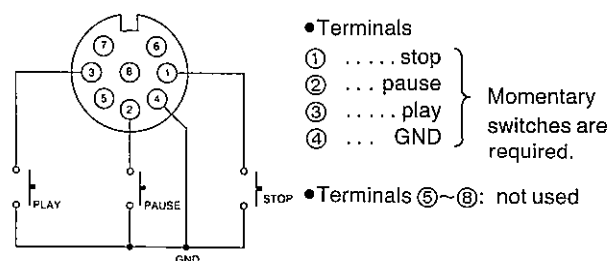
This socket is provided for system interface with future components.

(Do not connect any other components to this socket.)

④ Power cord

Connect to an AC outlet on the wall or on the rear panel of your amplifier or receiver.

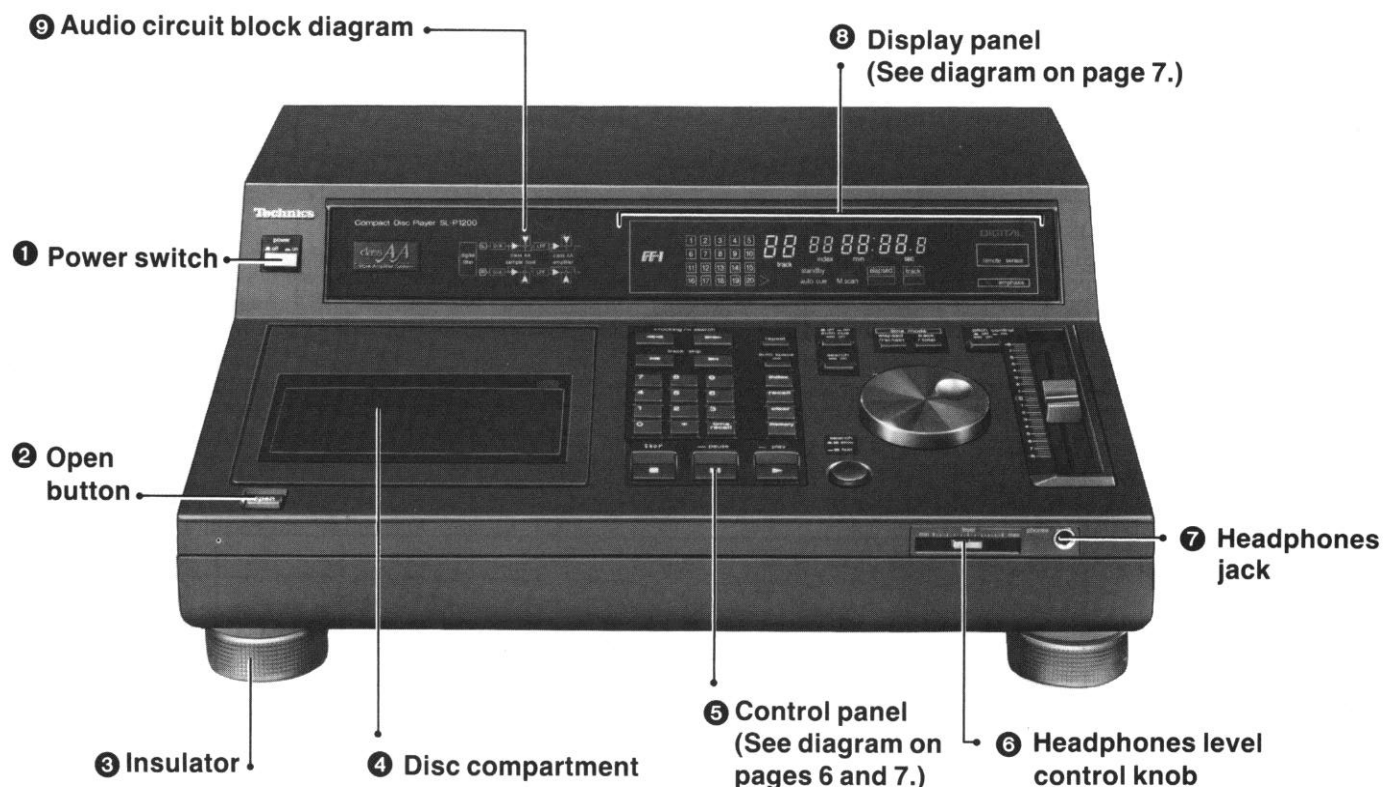
WIRED REMOTE CONTROL TERMINAL (DIN 8-PIN Socket) (Connection Diagram)



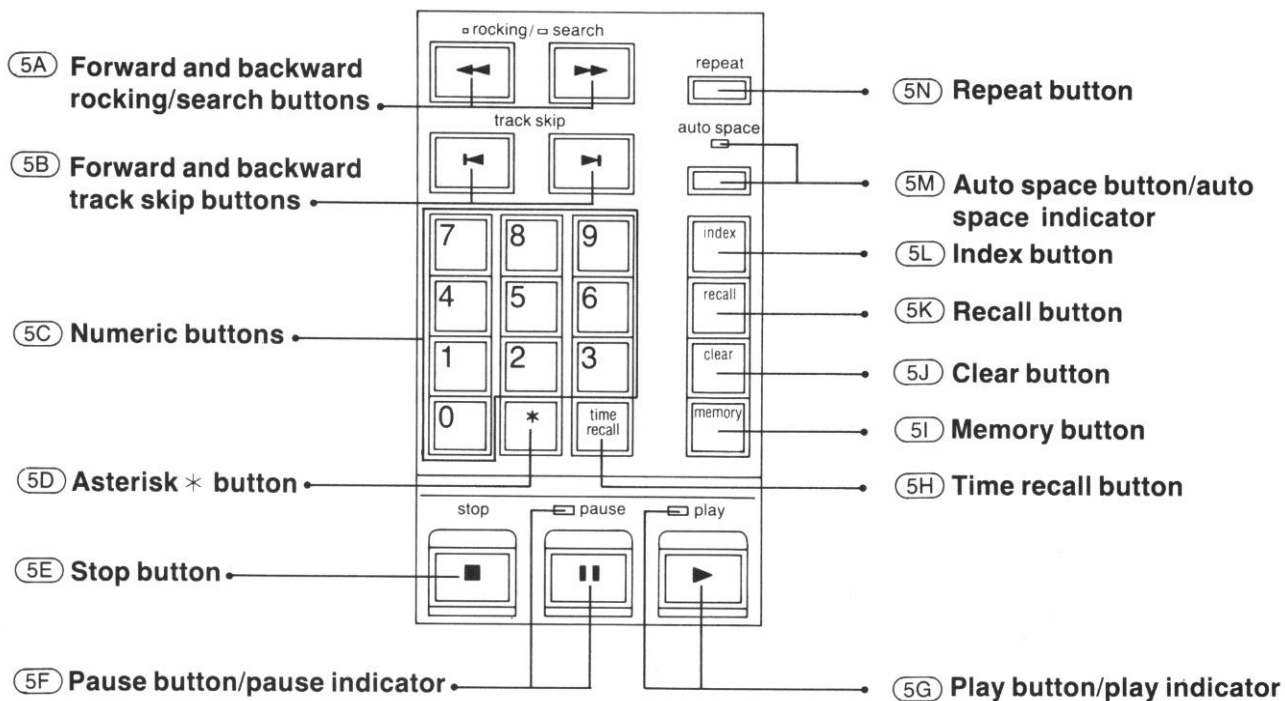
Front panel controls

Leave pages 6–7 folded out to help you identify the parts of this unit while reading the operating instructions.

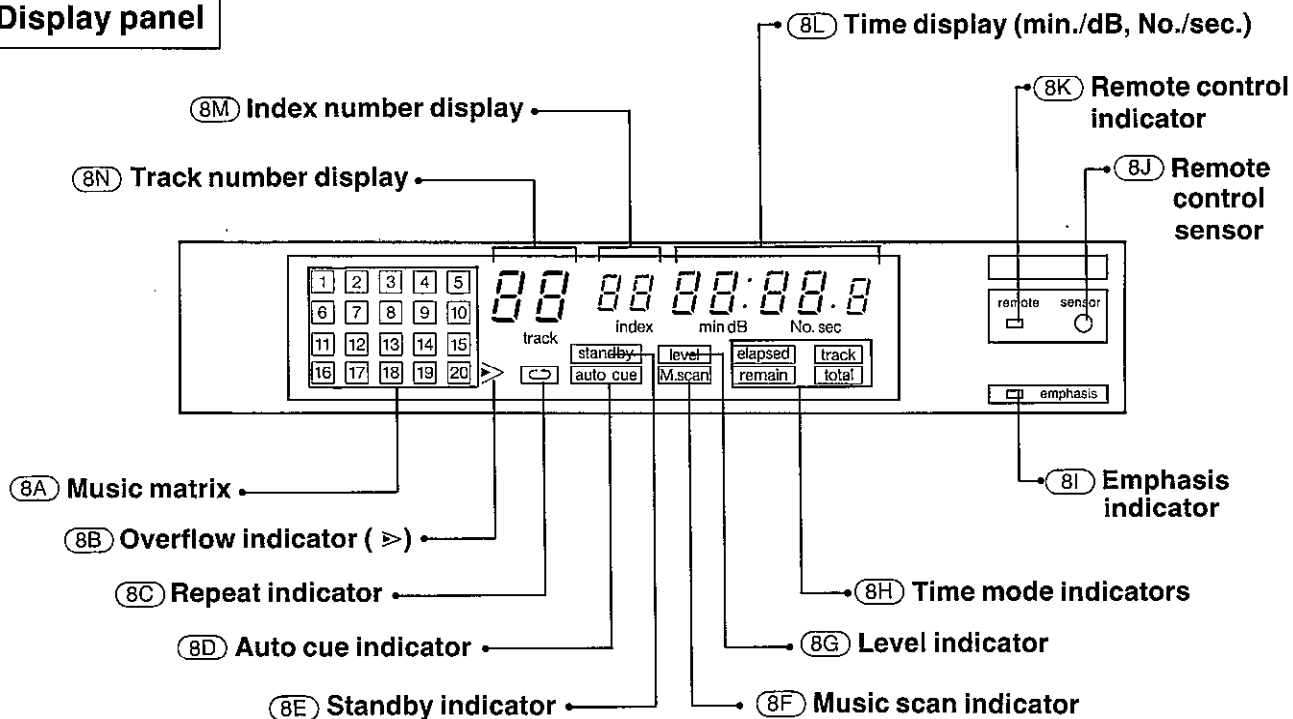
Front panel



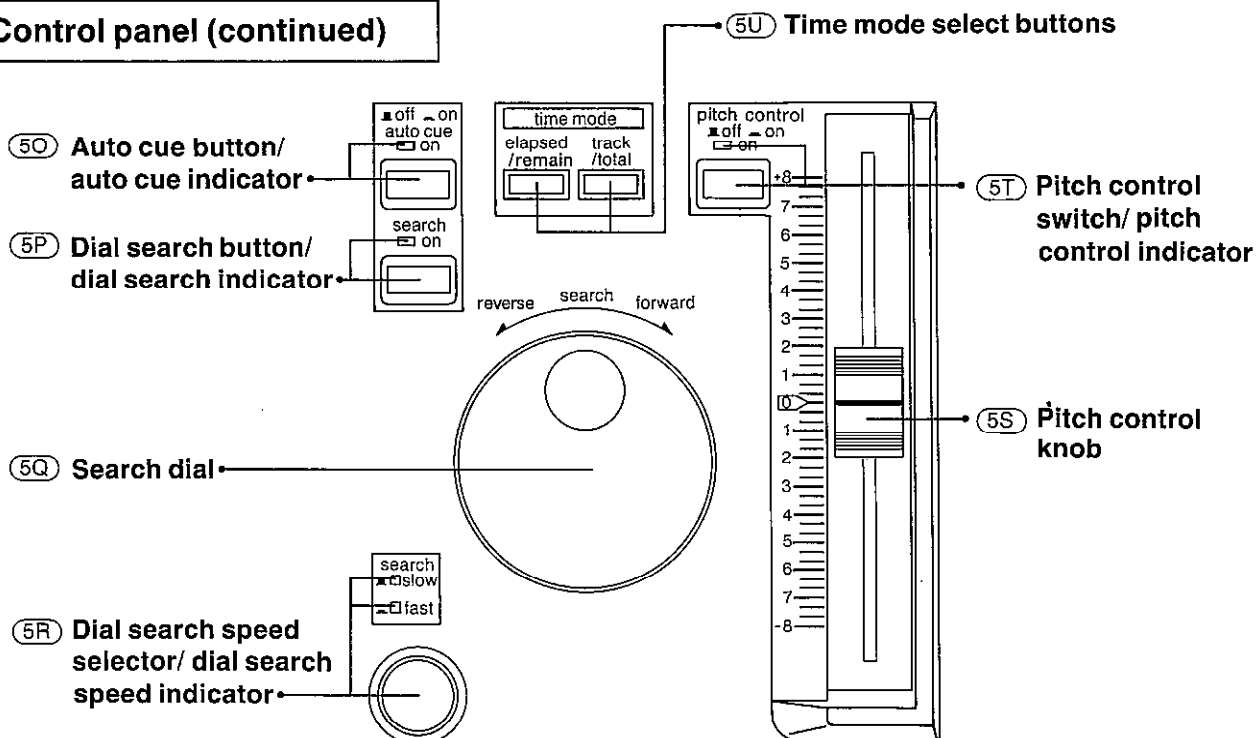
Control panel



Display panel



Control panel (continued)



Front panel controls and their functions

① Power switch

Press (■—■) to switch the power on.
Press again (■—■) to switch the power off.

② Open button

Press this button to open the disc compartment cover.

Close the cover by hand after loading a disc.

Note:

The cover does not open if this button is pressed during the following operating modes:

1. While disc information is being read (disc is spinning).
2. During disc play.
3. While the unit is in the pause mode.

③ Insulator

(See page 26 for details.)

④ Disc compartment

The disc is inserted here with the label side up.

⑤ Control panel

⑤A Forward and backward rocking/search buttons

These buttons are used for the following search operations.

- To move the pickup forward or backward by one pit-track (rocking search play)
- To move the pickup forward or backward to a desired point (search play).

(See page 17 for details.)

⑤B Forward and backward track skip buttons

These buttons are used to move the pickup to the beginning of the next or previous track in the forward or backward direction (skip play)

(See page 16 for details.)

⑤C Numeric buttons

These buttons (0–9) are used for the following two operations.

1. To specify track numbers for program play or random access play.
(See pages 12–15 for details.)
2. To specify a specific point on the disc as the disc play starting time (min., sec., 0.1 sec.).

(See page 13 for details.)

⑤D Asterisk (*) button

Press this button to separate track number, minutes, and seconds when entering specific play starting time.
(See page 13 for details.)

⑤E Stop button

Press this button to stop play.

Press this button to stop play and cancel all previous settings.

Note:

When this button is pressed, the player returns to the stop mode.

Stop mode:

In the stop mode, the pickup is at the beginning of the first track and the display shows the total number of tracks and total playing time of the disc.

(The disc does not rotate.)

⑤F Pause button/pause indicator

Press this button to briefly stop play.

The pause indicator will illuminate.

To continue play, press the play button.

The pause indicator will go out.

(See page 11 for details.)

Pause mode:

Play is stopped, but the pickup remains where it was at the time when the pause button was pressed.

The disc rotates while the unit is in the pause mode.

⑤G Play button/play indicator

Press this button to begin play.

- If pressed during play, the pickup returns to the beginning of the first track, playing the disc again.
- During program play, the pickup returns to the beginning of the current track.

(Auto-return play function)

- The play indicator illuminates when the play button is pressed and goes out when play is stopped.

(See page 11 for details.)

⑤H Time recall button

Press this button to confirm the disc play starting time when playing a disc from a specific point.

(See page 13 for details.)

⑤I Memory button

Press this button to enter displayed track numbers into the memory.

- A maximum of 20 selections can be programmed.
- The letter "F" will be displayed if you attempt to enter more than 20 selections.

(See pages 14–15 details.)

⑤J Clear button

Press this button to clear individual program entries before program play is started.

If this button is pressed during program play, the entire program is cleared.

(See page 14 for details.)

⑤K Recall button

Press this button to check the contents of a program.

When this button is pressed, the programmed track numbers are displayed one by one.

(See page 15 for details.)

⑤L Index button

Press this button to specify an index number.

(See page 12 for details.)

⑤M Auto space button/auto space indicator

Press this button to set a silent interval of 3 seconds between the songs on a disc.

(The auto space indicator will illuminate.)

Press this button again to cancel the auto space function.

(The indicator will go out.)

Note:

If auto space is used together with auto cue, only the auto cue function will operate.

(See page 19 for details.)

(5N) Repeat button

Press this button to activate the repeat mode. (The repeat indicator will illuminate.)

Press again to cancel the repeat mode.

(The indicator will go out.)

(See page 16 for details.)

(5O) Auto cue button/auto cue indicator

Press this button to activate the auto cue mode. In this mode the unit automatically switches to the standby mode immediately before the beginning of each track.

Play is resumed by pressing the play button.

The auto cue indicators (on the control and display panels) illuminate when the auto cue button is pressed to activate the auto cue mode.

(See page 19 for details.)

Standby mode:

Play is stopped and the pickup moves to the beginning of the music portion of each track and stays there until the next command is received. The disc rotates while the unit is in the standby mode.

(5P) Dial search button/dial search indicator

Press this button to activate the search dial.

The dial search indicator illuminates when the dial search button is pressed.

(See page 17 for details.)

(5Q) Search dial

Turn this dial clockwise or counterclockwise to move the pickup forward or backward.

Dial search can be performed at two different speeds (slow and fast), depending upon the position of the dial search speed selector.

(See page 17 for details.)

(5R) Dial search speed selector/dial search speed indicator

Press this selector to select the desired dial search speed.

The appropriate dial search speed indicator will illuminate.

(See page 17 for details.)

(5S) Pitch control knob

Slide this knob to adjust the desired speed.

This control can only be used after the pitch control switch has been pressed.

•Pitch change is displayed by an approximate percentage. Pitch is adjustable up to $\pm 8\%$.

•Press the pitch control switch again to return to standard speed.

(See page 20 for details.)

(5T) Pitch control switch/pitch control indicator

Press this switch to activate the pitch control function.

The pitch control indicator illuminates when the pitch control switch is pressed.

(See page 20 for details.)

(5U) Time mode select buttons

Four time mode displays can be selected.

(See page 18 for details.)

6 Headphones level control knob

Slide this knob to control the output level to the headphones.

(See page 20 for details.)

7 Headphones jack

Connect the optional headphones plug to this jack.

8 Display panel

(8A) Music matrix

Up to 20 tracks are displayed.

1. When a disc is loaded, this display shows the total number of tracks.

2. When specifying or entering a track number in the memory, the border of the specified track number illuminates.

3. During play, the border around the track number currently being played flashes on and off.

4. When the track is finished, the border around the track number goes out.

(See page 11 for details.)

(8B) Overflow indicator

► illuminates when a disc contains more than 20 tracks.

> flashes on and off when track number 21 or higher is played.

(See page 11 for details.)

(8C) Repeat indicator ()

Illuminates when the repeat mode is activated and goes out when the repeat button is pressed once again.

(See page 16 for details.)

(8D) Auto cue indicator ()

Illuminates when the auto cue button is pressed to specify the auto cue mode.

(See page 19 for details.)

(8E) Standby indicator ()

Illuminates when the unit switches to standby during the auto cue mode.

(See page 19 for details.)

(8F) Music scan indicator ()

Illuminates when the music scan button on the remote control unit is pressed and goes out when music scan play is cancelled.

(See page 23 for details.)

(8G) Level indicator ()

Illuminates when the output level is reduced by attenuation operations on the remote control unit.

(See page 23 for details.)

(8H) Time mode indicators ( )

The time display mode is shown here during play. (See page 18 for details.)

(8I) Emphasis indicator ()

Illuminates when a disc recorded with pre-emphasis is played.

(See pages 10–11 for details.)

(8J) Remote control sensor ()

Receives signals from the infrared remote control unit.

(See page 22 for details.)

(8K) Remote control indicator ()

Illuminates while remote control signals are received.

(See page 22 for details.)

(8L) Time display (min. dB, No. sec.)

Time (min., sec, 1/10th sec.), attenuation level (dB) (when using remote control unit) and programming order (No) (when recall button is pressed) are displayed here.

(See pages 11 and 18 for details.)

(8M) Index number display (index)

Index numbers up to 99 can be shown here.

On discs having no indexes, this display will always read "/".

(See page 12 for details.)

(8N) Track number display (track)

Track numbers up to 99 can be shown here.

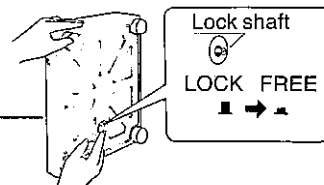
(See page 11 for details.)

9 Audio circuit block diagram

(See page 26 for details.)

Before starting disc play

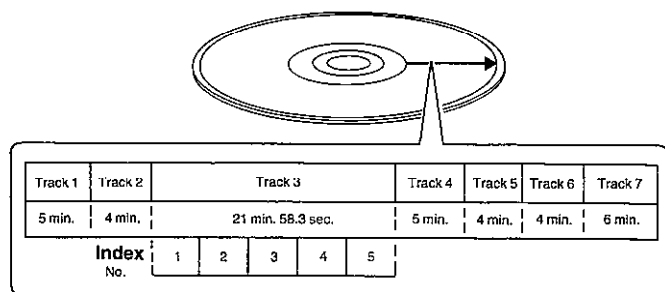
Is the lock shaft in the unlocked (free) position?



■ The operations described on this page are the same for all disc play procedures.

Concerning the compact disc used in these instructions.

All of the examples on pages 11–24 refer to a disc which contains 7 tracks and a total playing time of 49 minutes and 58.3 seconds, as shown below. Track 3 is divided into five indexes.



※Index number

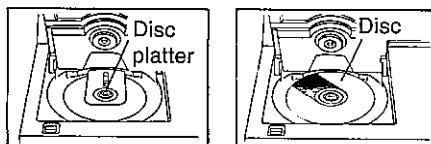
● In some compact discs, indexes are used to divide tracks into smaller sections for easy access. If a disc includes indexes, a list of the indexes will be contained in the liner note included with that disc.

[**INDEX**] is the symbol for index(es).

Inserting a disc

1. Press the open button.
The disc compartment cover opens.

2. Insert the disc with the label facing upward.
● Always hold the disc by the edges to avoid soiling the surface.



3. Push the cover down by hand to close it.

Removing a disc

To protect the disc, pressing the open button will have no effect when the unit is in one of the following three operating modes:

1. While disc information is being read (disc is spinning).
2. During disc play.
3. While the unit is in the pause mode.

Therefore, you should press the stop button to stop the disc, wait until the disc has stopped rotating, and then press the open button to remove the disc.

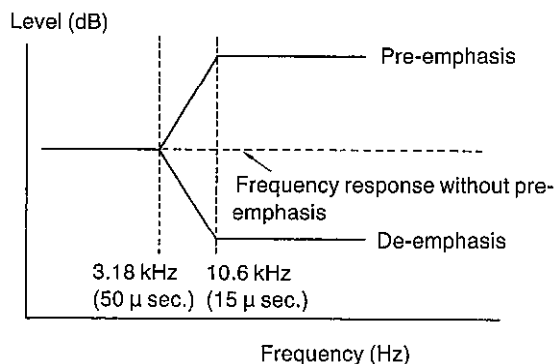
Note:

This protective mechanism does not function if power is switched off.

Recording characteristics of compact discs

In order to further improve the S/N ratio of compact discs, some discs include a degree of pre-emphasis in the high frequency range. If a disc with pre-emphasis is inserted into this unit, the emphasis indicator on the display panel will illuminate.

This indicates the recording characteristics of the compact disc being played. If a disc with pre-emphasis is played without any compensation, the high frequency range will be unnaturally strong. Therefore, a corresponding amount of de-emphasis is needed to obtain the proper response. The de-emphasis circuitry of this unit is automatically activated when a disc having pre-emphasis is played so there is no need to switch this circuit on and off yourself.



Some discs are made without pre-emphasis.

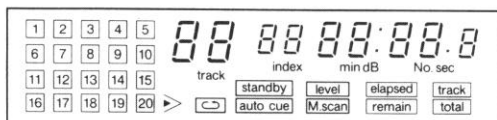
Playing a disc

1 Automatic play

- To play a disc from the first track to the end of the disc.



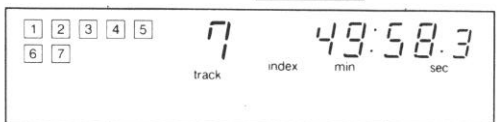
- 1** When power is turned on, the display panel illuminates as shown below:



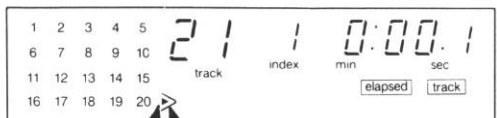
After about 5 seconds or after the disc compartment has been opened the display panel shows the following:



- 2** • After inserting the disc and closing the cover the disc will begin to rotate. After the total number of tracks and total playing time are displayed, the player switches to the stop mode.



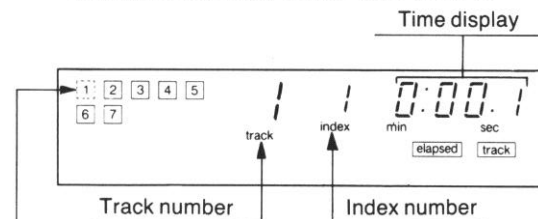
If a disc has more than 20 tracks the overflow indicator illuminates, and when the 21st track is played the overflow indicator flashes on and off.



Flashes on and off during play

- Remove the disc from the disc holder and turn off the power if the player is not to be used again for a while.

- 3** • The play indicator () on the control panel illuminates and play begins from track 1.



The border of the track number being played flashes on and off.

- When a disc having no indexes is played, " / " is constantly displayed in the index section.
- If the play button is pressed during disc play, disc play is started again from the first track (**auto-return play function**).
- After the last track has been played the pickup returns to the beginning of the first track and the unit switches to the stop mode. The play indicator () goes out.
- 4** • The play indicator () goes out, the pause indicator () illuminates and the unit switches to the pause mode. Press the play button to resume play.

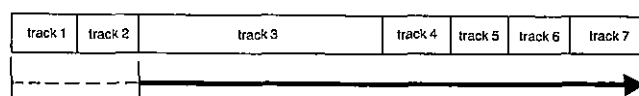
2 Random access play

- Starting disc play from a specific place on the disc.

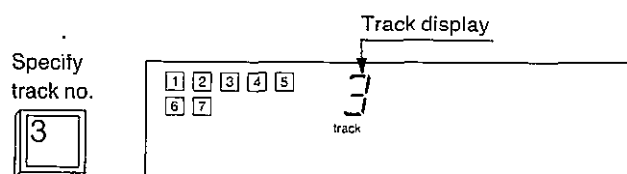
- Press the buttons in the order shown by the arrows.

2-1. To start disc play from a specific track

- For example, to play from the beginning of track 3 to the end of the disc.

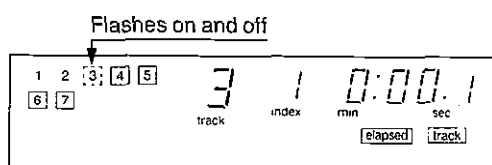


- The display below shows track 3 is specified.



- When the play button is pressed, play begins from track 3.

- The border of the track being played flashes on and off.



- The player switches to the stop mode when play has finished.

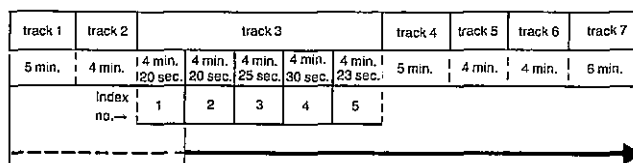
- From this page onward the following basic operations are omitted:

- Power on/off
- Disc compartment open/close
- Interrupting play
- Stopping play

2-2. To play a disc from a specific index

(This is possible only on discs having indexes.)

- For example, to play from the beginning of index 2 of track 3 to the end of the disc.



Specify track no.



Specify index



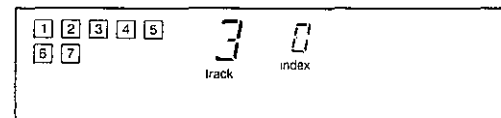
Specify index no.



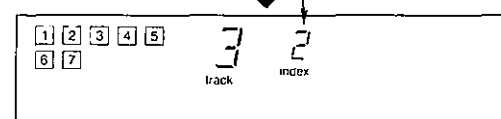
play



- When playing discs having only one track, remember to enter track number 1, then specify the index number.

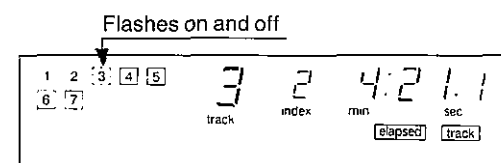


Index no. 2



- Index numbers up to 99 can be specified.

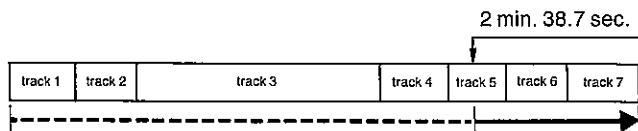
- When the play button is pressed, disc play begins from index 2 of track 3.



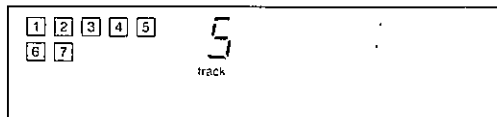
- When the end of the disc is reached, the player switches to the stop mode.

2-3. To play a disc from a specific starting time

- For example, to play from the 2 min. 38.7 sec. point of track 5.



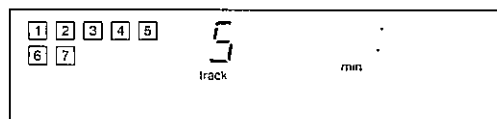
Specify track no.



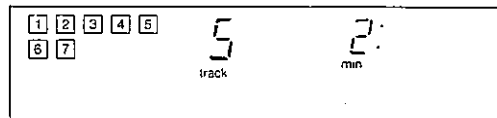
Separate track from minutes



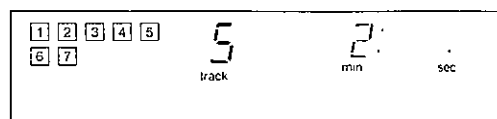
(Note 1)



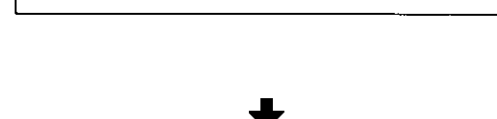
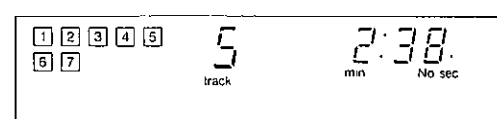
Specify minutes



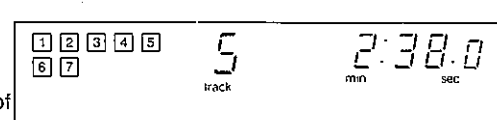
Separate minutes from seconds



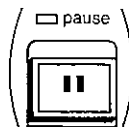
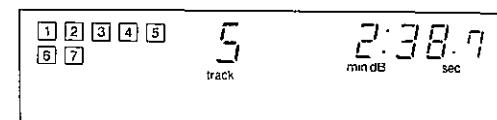
Specify sec.



Separate whole seconds from tenths of a second



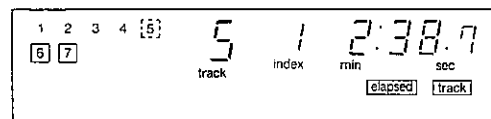
Specify 0.7 sec.



play

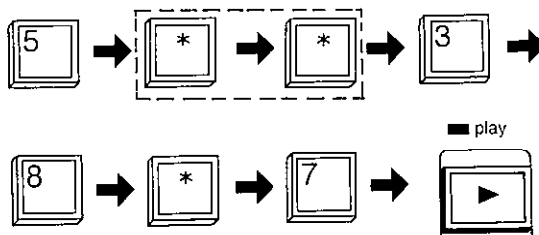


- When the play button is pressed, disc play begins from the 2 min. 38.7 sec. point of track 5.



Note 1)

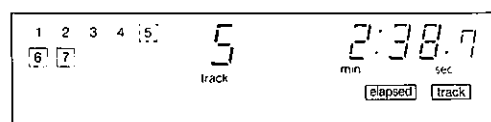
When no minutes are to be specified, for example, if play is to begin at the 38.7 sec. point of track 5, press the numeric button "0" or press the asterisk button twice in a row, as shown below.



- An already specified time will be cancelled when a new time is entered or the clear button is pressed.
- If the starting time is specified while the unit is in the pause mode, press the pause button once and then press the play button to resume play. Not pressing the pause button will cause a short delay before sound is heard.

Restarting play from the same point of time (By means of starting time confirmation.)

- Press the time recall button during play.
- The starting time is shown for about 20 seconds on the display panel. During that time play continues.



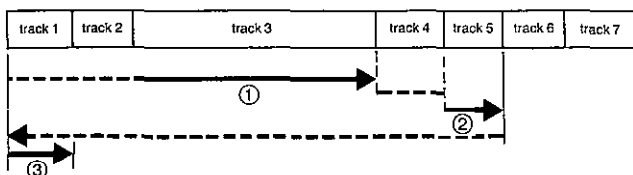
- If the play button is pressed during that time, play begins again from the location indicated on the display.

3 Program play

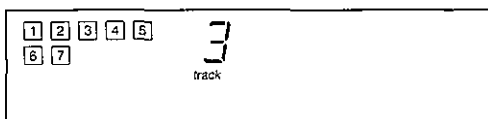
Using the program play function, a maximum of 20 selections can be programmed in any sequence.
Index numbers can not be programmed.

3-1. Track program play (in any order)

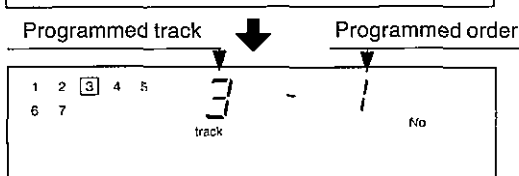
■ For example, to play track 3, track 5 and track 1 in that order.



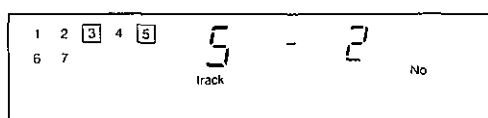
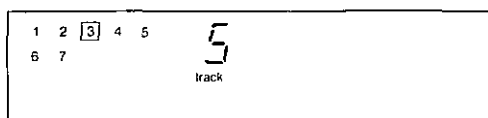
Specify track no.



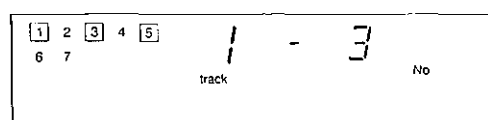
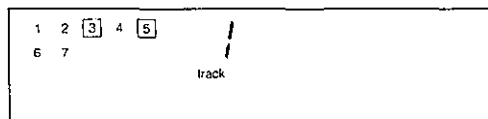
(Note 1)



Specify track no.



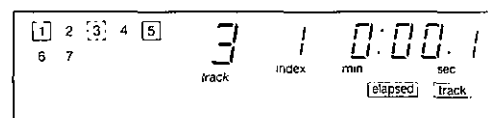
Specify track no.



■ play



• When the play button is pressed, disc play begins from track 3.



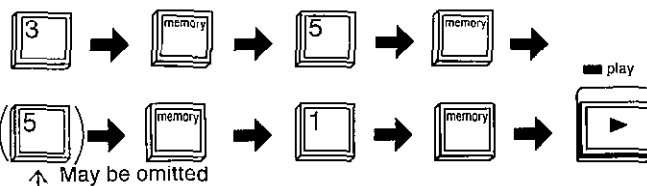
Note 1) \bar{E} (error) will be displayed momentarily if a track number not on the disc is specified.
If more than 20 selections are entered "F" (full) is shown in the display panel and no further selections can be programmed.

• If an incorrect entry is made while the unit is in the stop mode, pressing the clear button will cancel the last program entry.

However, if the clear button is pressed during disc play or in the pause mode, all memory contents are cleared and disc play continues from the current point to the end of the disc (memory clear function).

• Programming two tracks in a row.

For example, if tracks 3-5-5-1 are programmed in that order, press the memory button twice, as shown below. The double numeric button operation may be abbreviated.



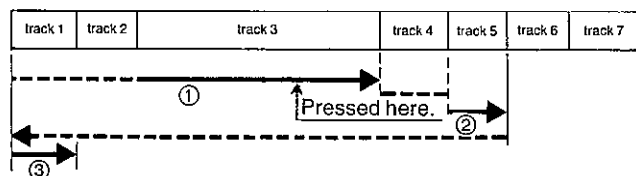
• After a track has been played its border goes out.

• The player switches to the stop mode when the last programmed track has been played.

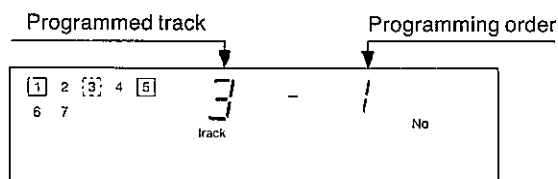
To check the contents of a program (program confirmation)

- For example, when track 3→track 5→track 1 are programmed in that order and the recall button is pressed while track 3 is being played, the programmed tracks will be displayed in their programmed order.

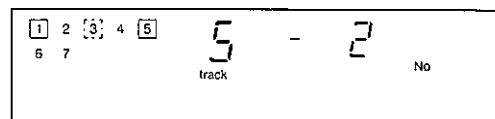
Press 



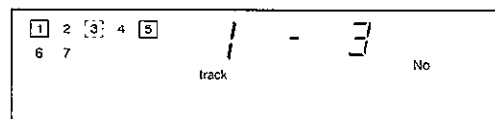
- First programmed track



- Second programmed track



- Last programmed track



After the last programmed track has been displayed, the current track is shown.

This operation is possible at any time during program disc play.

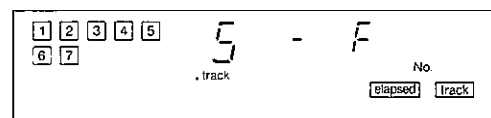
Note:

Tracks that have been played are not displayed, unless the repeat button is on.

3-2. Entering additional program selections during play

During play, additional program entries can be made in the same manner as at the time of programming (see 3-1).

- Additional program selections can be entered until a total of 20 selections are programmed.
- If more than 20 selections are entered, F (full) is shown in the time display section of the display panel and further program entries are not accepted.

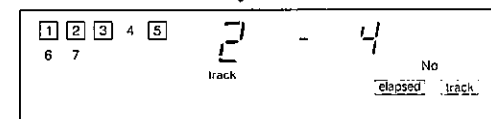
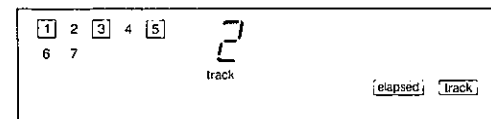


- If the memory button is not pressed within 25 seconds after specifying a track, the display returns to the playing time mode.

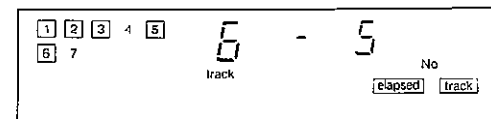
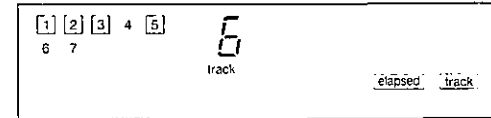
- For example, if track 3 is being played and track 2 and track 6 are to be added to the program, proceed as follows:

Specify

track no.



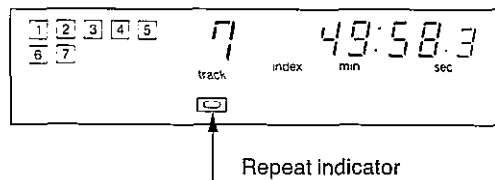
Specify track no.



4 Repeat play

■ Entire disc repeat play

- Press the repeat button before starting disc play or during play.
- The repeat indicator (REPEAT) will illuminate to show that the repeat mode is on.



■ Programmed track repeat play

- When the repeat button is pressed before beginning play, all programmed tracks will be played repeatedly.
- When pressed during play, the current track and the remaining programmed tracks will be played repeatedly. (The programmed tracks that have already been played are not included in the repeat play cycle.)

■ To cancel the repeat play mode, press the repeat button again.

- The indicator will go out and repeat play is cancelled.

5 Skip play

(Skip play can be performed when the player is in the play or pause mode.)

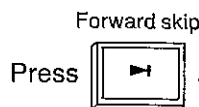
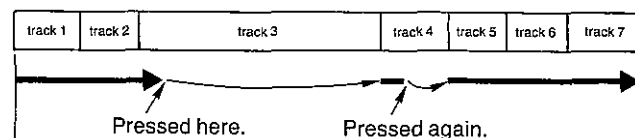
This function allows quick access to the beginning of a track.

Note: Index skip play is not possible.

Forward skip

- The pickup skips the same number of tracks as the number of times the button is pressed.
- During automatic play, the pickup skips to the beginning of the next track each time the button is pressed.
- During program play or program repeat play, the pickup skips to the beginning of the next programmed track each time the button is pressed.
- While watching the track number display, press the forward skip button until the desired track has been located.

- **Example:** To advance to the beginning of the fourth track and then to the beginning of the fifth track while listening to the third track.

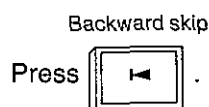
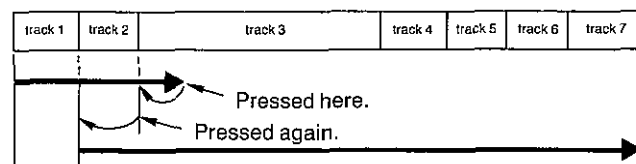


Backward skip

- During automatic play, the pickup skips to the beginning of the current track. If pressed again quickly, the pickup skips to the beginning of the previous track.
- During program play (repeat function not activated), the pickup skips backward only to the beginning of the current track.
- During program repeat play, the pickup skips to the beginning of the current track. If pressed again quickly, the pickup skips to the beginning of the previous programmed track.
- The pickup skips the same number of tracks as the number of times the button is pressed.
- While watching the track number display, press the backward skip button until the desired track has been located.

Remember that for backward skip, the present track is included in the count.

- **Example:** To return to the beginning of the third track and then to the beginning of the second track, while listening to the third track.



6 Search play (forward/backward)

(Search play can be performed when the player is in the play or in the pause mode.)

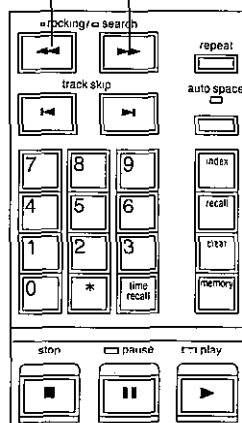
This function allows search to any desired point on the disc.

Search play can be performed by using either the forward and backward rocking/search buttons **A** or the search dial **B**.

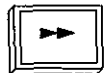
•The position of the pickup is confirmed by watching the display panel or listening to the sound from the compact disc.

A Search play using the forward and backward rocking/search buttons (Button search)

Forward and backward rocking/search buttons **A**



Depending on how these buttons are pressed, search with three different speeds is possible.



Forward button



Backward button

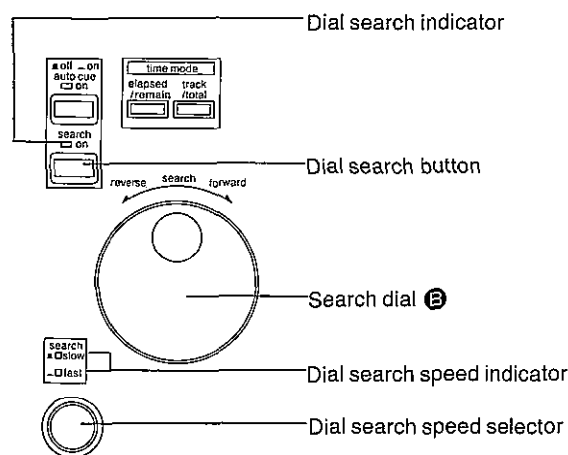
- 1** Press one of these buttons momentarily to move the pickup by one pit-track (one disc rotation). This allows very fine rocking search.
- 2** When one of these buttons is held down, the pickup will move slowly at first.
- 3** When one of these buttons is held down for more than about 3 seconds, the pickup will move rapidly.

- Release the button when the desired point has been reached (as shown by the display).
- If these buttons are pressed during play, sound can be heard during the search operation.
During steps 2 and 3, the output level is decreased by -12 dB (1/4) compared with the normal level. (See page 23.)

About rocking search

When two or more CD players are used at a time, as often happens in a studio for example, fade-in and fade-out of the units have to be timed exactly. The rocking search function is useful for this because it permits movement of the pickup across one pit-track (at inner diameter in about 0.13 second) each time either button is pressed momentarily.

B Search play using the search dial (Dial search)



- Usually no sound can be heard while the unit is in the pause mode. However, if the dial search button is in the "on" position, sound can also be heard during the pause mode.
- Dial search can be performed at two different speeds depending on the position (slow and fast) of the dial search speed selection.
- If the search dial is turned clockwise the pickup performs forward search, and if it is turned counterclockwise, the pickup performs backward search.
However, when the dial search button is not in the "on" position and the dial search indicator (■) is not illuminated, dial search is not possible.

- 1** Press the dial search button "on".
The dial search indicator (■) illuminates.
The dial search speed indicator (■) for "slow" or "fast" illuminates also.
- 2** Press the dial search speed selector to change the selected search speed.

- Perform search while watching the display panel or listening to the sound from the disc.
The sound level is not reduced during dial search.

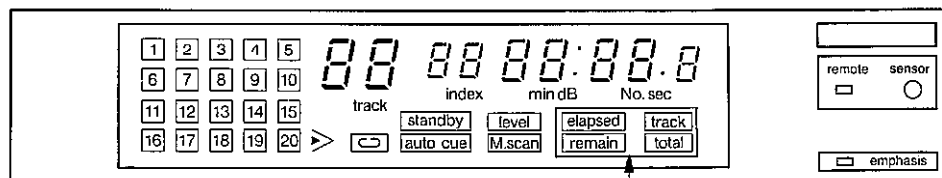
Notes:

- The search speed changes according to the speed at which the search dial is turned. However, you can not force the pickup to search faster or slower than its predetermined limits.
- When dial search is performed with the unit in the play mode, the normal play speed of the pickup is added to (forward search) or subtracted from (backward search) the dial search speed.

7 Time mode display function

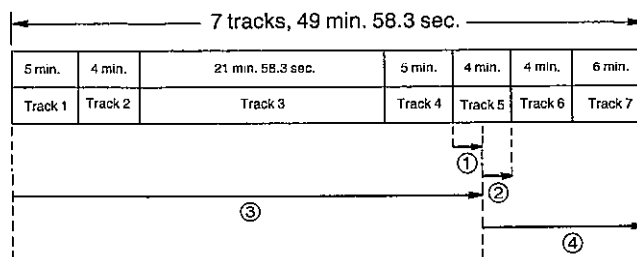
(During play or in the pause mode.)

- The appropriate time mode indicators illuminate to show which time mode display has been selected.
- Pressing the elapsed/remain button will change the mode from elapsed time to remaining time or vice versa.
- Pressing the track/total button will change the mode from track time to total (disc or programmed) time or vice versa.
- When changing the time display mode, use the time mode indicators to confirm selection of the desired time display mode.



Time mode indicators

■ For example, if the time mode select button is pressed when playing a disc of 49 min. 58.3 sec. at a point 2 min. 10 sec. after the beginning of track 5:



	Illuminated time mode indicators	Time display	Display panel
1	elapsed track	Elapsed playing time from the beginning of the current track.	
2	remain track	Remaining playing time of the current track.	
3	elapsed total	Playing time from the beginning of the first track. •During program play, the total elapsed programmed playing time is displayed.	
4	remain total	Disc remaining playing time. •During program play, the total remaining programmed playing time is displayed.	

Note:

- During random access play, skip play and search play, the total time from the beginning of the first track is displayed in mode 3.
(This is not the actual elapsed playing time.)
- Tracks skipped during program play are not included in the elapsed playing time.

8 Auto space function

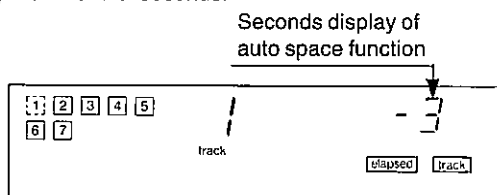
Auto space function

When this function is activated, a silent interval of 3-second is created between all tracks. This 3-second interval occurs instead of, not in addition to, any pause interval recorded on the disc.

- Press the auto space button.

Auto space indicator (■) on the display panel illuminates.

- The following diagram shows the silent interval between all songs is about 3 seconds.



- At the beginning of each track -3, -2 and then -1 is displayed.

- Press this button again to cancel the auto space function. The auto space indicator (■) goes out.

Note:

When the auto cue function is used together with auto space the auto space indicator illuminates, but only the auto cue function operates.

9 Auto cue function (automatic standby)

Auto cue function

At the beginning of each track on most discs, a silent interval of about one second is recorded. Therefore, when play is started from 0 min. 00 sec, music is not heard immediately.

When the auto cue function is activated, the unit automatically detects the beginning of the music on each track and then switches to standby mode.

When play is started from this point (by pressing the play button), music is heard immediately.

- 1 Press the auto cue button (■).

The auto cue indicator (■) above the button and the auto cue indicator on the display panel illuminate.

- 2 Press the play button.

The standby indicator on the display panel illuminates and the unit switches to the standby mode.

- 3 To start disc play, press the play button.

The next track will begin immediately.

The standby indicator will go out, but both auto cue indicators will remain illuminated.

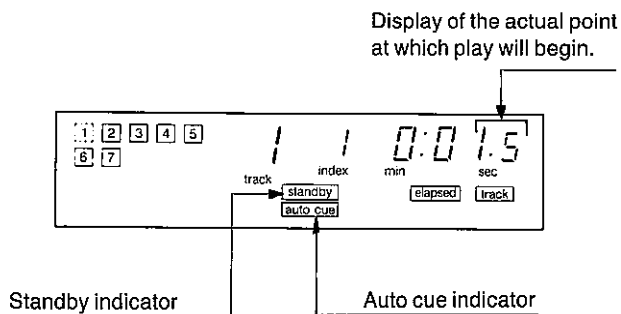
Notes:

- In this mode, the unit will switch to standby at the beginning of each track. It is therefore necessary to press the play button to resume play at the beginning of every track.

- This function can also be used during program play.

The unit will then switch to standby at the beginning of each programmed track.

- The illustration below shows that the unit is in the standby mode at the beginning of the music portion of track 1.



- If the auto cue button is pressed during play, this function is activated at the beginning of the next track.

- When not using this function, press the auto cue button again to release it (■). The standby and both auto cue indicators will go out.

10 Pitch control

This function allows fine adjustment of pitch (up to $\pm 8\%$).

1. Press the pitch control switch to "on".
The pitch control indicator illuminates.
2. Slide the pitch control knob upward or downward to the desired setting.

- When not using this function, press the pitch control switch again to release it (off).

Note:

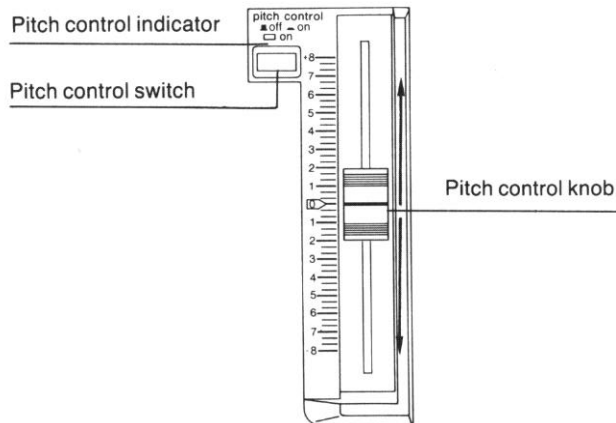
In the center position (0) a "click" can be perceived.

This position is the 0% standard pitch.

The +5.9% position is a half tone sharp (\sharp).

The -5.6% position is a half tone flat (\flat).

- When the pitch has been changed, the elapsed or remaining playing time readings will differ from the actual times by the amount of pitch adjustment.

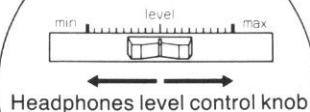


11 Listening through headphones

- Slide the headphone level adjustment knob to adjust the output level.



Headphones jack



Headphones level control knob

■ Hearing comfort and well-being

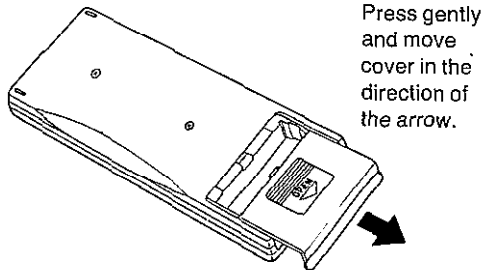
- Do not use your headphones at a high volume. Hearing experts advise against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.

Using the remote control unit (included)

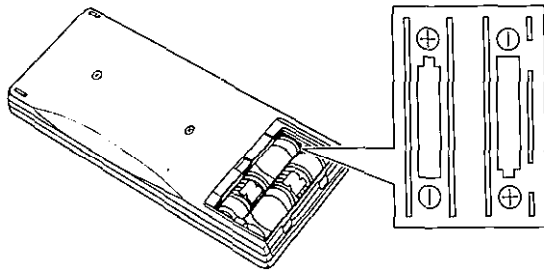
Inserting the batteries

■ Be sure to insert the batteries before using the remote control unit for the first time.

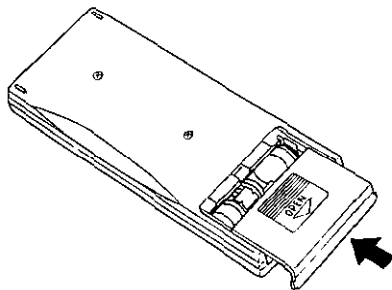
1. Open the cover on the back of the remote control unit.



2. Insert two UM-3 "AA", IEC R6 or equivalent batteries in the direction indicated in the battery compartment.



3. Close the cover.



Notes:

- Use UM-3 "AA" batteries or IEC R6 or equivalent.
- Although battery life varies depending on how often the remote control unit is used, the batteries should be replaced about once every year on the average.
- The batteries should also be replaced if commands from the remote control unit are not received by this player even when the unit is held close to the player's front panel.
- Remember to insert the batteries in the correct direction as shown in the battery compartment.
- To prevent damage to the battery holder from leakage:
 - * Replace both batteries at once; do not use one new and one old battery together.
 - * Do not use different types of batteries (for example one standard battery with one alkaline battery).
 - * Do not short or overheat batteries.
- Remove the batteries if the remote control unit is not to be used for a long period of time.
- If the batteries leak, clean the battery holder well before inserting new batteries.

Precautions:

- The signal from the remote control unit will not reach this player if there is an obstacle between the remote control unit and the front panel of this player. Be sure you have a clear signal path before pressing a remote-control unit button.
- Commands from the remote control unit may reach this player even if the remote control unit is pointed in a different direction due to reflection of the infrared signal off walls and other surfaces. To avoid mistaken operations, always use the remote control unit as close as possible to a right angle to the front panel receiver.
- Commands from the remote control unit may not be picked up by this player if the front panel receiver is exposed to direct sunlight or a very bright light. The front panel should be protected from bright lights (particularly fluorescent lights) to prevent this problem.
- Do not use remote control units for TV sets, VCRs or other components at the same time as this player's remote control unit since this could result in a mistaken operation.
- Do not try to take apart the remote control unit or touch it on the inside.
- Do not place any heavy objects on the remote control unit or place it in locations where it is subjected to direct sunlight or heat.
- Do not clean the remote control unit with specially treated cloths or chemical cleansers. When necessary, wipe with a dry cloth to remove dirt and dust.
- The surface of the remote control unit may be stained or damaged by benzine, thinner, insecticides and adhesive tape.

When using the remote control unit, press the buttons slowly and accurately to avoid incorrect operation.

The remote control unit has the following capabilities not available on the player.

1. Music scan function (See page 23.)

2. Digital volume attenuation

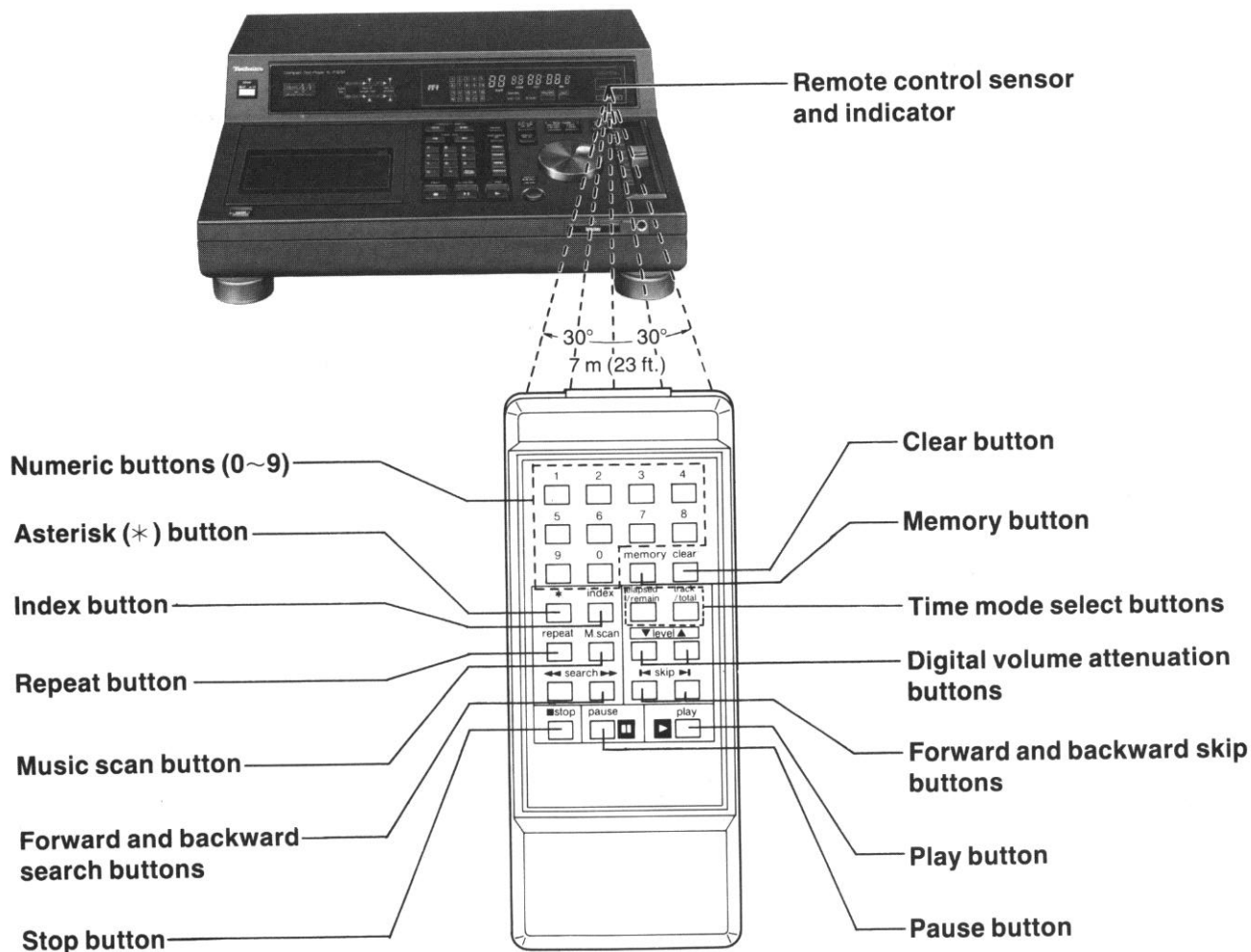
(See page 23.)

■ Remote control operation

Point the remote control unit at the remote control sensor on the front panel and press the appropriate button(s).

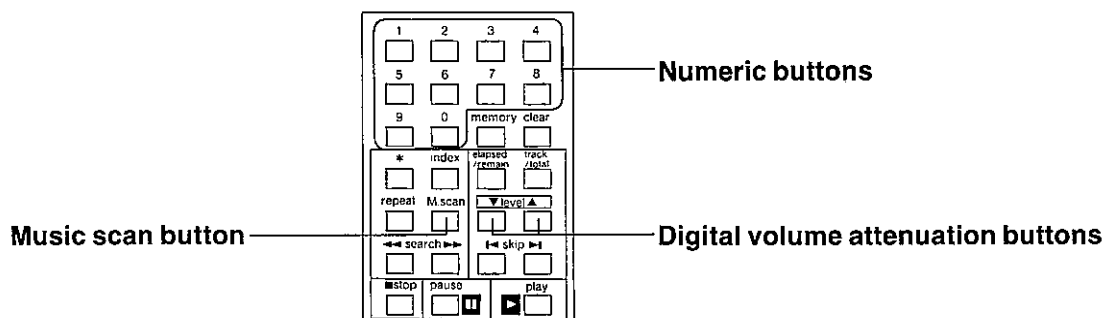
- Always aim the remote control unit at the front panel receiver.
- The remote control unit can be used at an angle range of up to 30° from the direction in which the front panel faces.
- The remote control unit cannot be used from a distance of more than 7 meters (23 ft.).
- If the remote control indicator does not illuminate when remote control operations are made, the batteries are discharged. Insert new batteries.

Remote panel controls



The forward and backward search buttons are different from the buttons on the CD player, however, their functions are the same.

Please note that apart from power on/off operations there are other operations that cannot be made by the remote control unit.



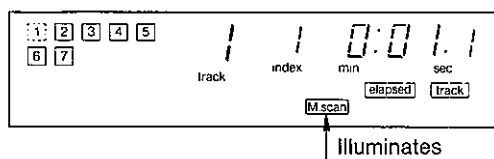
1. Music scan play

If the music scan button is pressed, only the first ten seconds of all tracks or all programmed tracks are played.
(Convenient for checking the contents of tracks.)

M.scan

Press the button.

- The music scan indicator illuminates and the first 10 seconds of each track on the disc are played.



Note:

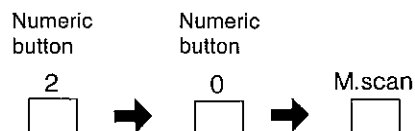
During music scan play, the time display mode cannot be changed and the auto space and auto cue functions cannot be activated.

- After music scan play is finished, disc play begins from track one.
- To stop music scan and resume normal play from any point, press the play button.
- Press the pause or stop button to stop music scan.

■ Adjusting the music scan interval between one and 99 seconds.

(Programmable music scan function)

For example, extending the music scan interval to 20 seconds.



- The music scan interval is specified as 20 seconds and music scan begins.
(When performing music scan play, remember that the specified scanning interval is effective for one scanning operation only.)
The scanning interval is automatically reset to 10 seconds when power is switched off.
This function cannot be used with program play.

2. Digital volume attenuation function

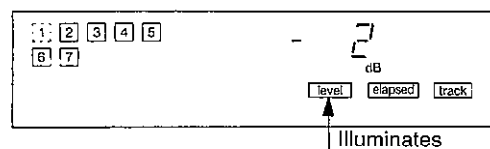
- Each time the button or button is pressed, the display mode changes to the attenuation mode (dB display), and the indicator in the display panel illuminates. The current digital volume level setting is displayed momentarily in the time display.

Pressing one of these buttons again while the dB display is illuminated will cause a volume level change as described below.

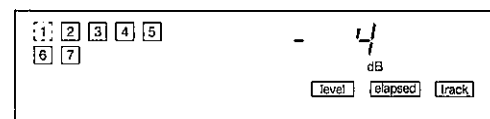
After the dB display has gone out, the playing time is shown again.

- To lower the volume level press the button. The volume level can be lowered to -12 dB in 2 dB steps.

For example, when the button is pressed once:



When the button is pressed again:



Press the button to return to 0 dB in 2 dB steps. The indicator on the display panel goes out when 0 dB is reached. Volume attenuation is returned to 0 dB automatically when power is switched off.

Sound level during search when digital volume attenuation is activated:

If search is performed during play the sound level is decreased to -12 dB (1/4). However, when the digital volume attenuation is activated the output level decrease is reduced by the amount of volume attenuation. For example, if the digital volume attenuation is set to -4 dB when a search button is pressed, the actual output level during search will be -8 dB.
(The maximum output level decrease is -12 dB.)

Notes and maintenance

- **Before transporting this unit, be sure to remove the disc and lock the lock shaft or severe damage will result.**

(See page 3 for directions on shipping this unit again.)

- **Close the disc compartment when not in use.**

There is a precision-made focusing lens incorporated in this unit. Always close the disc compartment to protect it from dust. Also never try to touch the disc platter or lens, or insert your hand inside.

- **When carrying or storing the unit handle it with care, so it is not subjected to any strong bumps.**

- **Turn down the amplifier volume control**

Compact discs are quieter and have a much wider dynamic range than phonograph records. Consequently, you may turn the volume up too high if you try to adjust it by listening to the surface noise as you might with a phonograph record. To prevent this problem, turn the volume down, increasing it as desired only after the music has started.

- **The rear panel of the player becomes hot while a disc is being played.**

This is one way in which the player dissipates heat and is not a malfunction. Be careful not to touch the rear panel when the player is being used.

- **Times displayed by this unit may differ slightly from the track times in the disc liner note.**

The liner note included with each compact disc lists the playing time of each track. Since the times calculated by this unit include pause intervals, the displayed time may differ from the liner note time by this amount.

- **Turn off the power switch of the compact disc player while using a tuner.**

(See page 4 for details.)

- **Do not take this unit apart or attempt to make any changes yourself.**

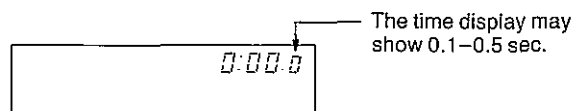
This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the unit or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

- **To avoid problems due to vibration;**

- Do not place a book or similar object under this unit.
- Do not route the connection cables (of this or other units) across the operation panel, across the top, or under the unit.

Pause time display while pickup is at the beginning of a track

If the pause button is pressed while the unit is in the stop mode, the pickup moves to the beginning of the current track and then switches to the pause mode. In this case, the time display may show 0.1~0.5 second instead of 0 in the 1/10th sec. digit. The reason for this is that the pickup stops a little before* the beginning of the track to ensure that the track beginning is heard when play is resumed; it is not a malfunction. (It is the same if the pickup skips during the pause mode.)



(Time display when pickup is in the pause mode at the beginning of a track.)

*In this case minus (-) is not shown in the time display.

Maintenance

- **Wipe the cabinet with a soft, dry cloth.**

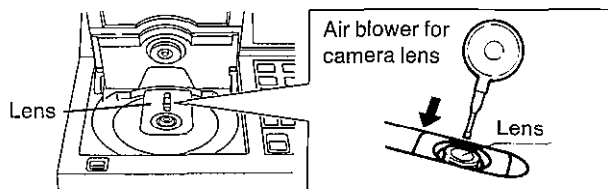
To avoid harming the cabinet finish, do not clean this unit with solvents or volatile compounds such as alcohol, benzine or paint thinner. Do not use treated dust cloths or stick tape on the cabinet as it may lose its gloss or get discolored.

(Be sure to switch power "off" first before cleaning.)

- **If the lens is dirty...**

A dirty lens will cause sound skipping and, if the lens is very dirty, disc play may not be possible. Open the disc compartment and clean the lens as shown in the figure.

Cleaning kit (option)
Part number: SZZP1038C



- Use a cotton swab to clean away fingerprints, etc. on the lens.

Moisture may form on the lens in the following cases...

- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When the unit is suddenly moved from a cold environment to a warm one.

If moisture forms inside this unit, it may not operate properly. To correct this problem, turn on the power and wait about one hour for the moisture to evaporate.

Technical specifications [*Measured by EIAJ (CP-307)]

■ General

Power supply:	AC 60 Hz, 120 V
Power consumption:	29 W
Output voltage:	2 V (at 0 dB)*
Output impedance:	about 200Ω
Load impedance:	more than 10 kΩ
Dimensions (W×D×H):	43×38×16.8 cm (16 ¹⁵ / ₁₆ "×14 ³ / ₃₂ "×6 ⁵ / ₈ " When disc compartment is open. 23 cm (9 ¹ / ₁₆ " height)
Weight:	14.5 kg (32 lbs)

■ Audio

No. of channels:	2 (left and right, stereo)
Frequency response:	4–20,000 Hz ±0.1 dB*
Dynamic range:	more than 96 dB*
S/N ratio:	more than 106 dB*
Harmonic distortion:	0.0012% (1 kHz, 0 dB)
Total harmonic distortion:	0.0025% (1 kHz, 0 dB)*
Channel separation:	more than 106 dB (1 kHz)*
Channel phase balance:	less than 5°*
Wow and flutter:	below measurable limit*
Low-pass filter:	High resolution digital filter Digital: Double over sampling 96 th order FIR (Finite Impulse Response) type Analog: GIC (Generalized Impedance Converter) active type

■ Signal Format

Sampling frequency:	44.1 kHz
Correction system	Technics Super Decoding Algorithm
D-A conversion:	16-bit linear

■ Pickup

Type:	Fine-focus, one beam
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Light source:	Semiconductor laser
Wavelength:	780 nm

■ Traverse system:

Type:	High-speed linear access system
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■ Spindle system:

Type:	Brushless DD motor
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CAUTION

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications set forth in Subpart J of Part 15 of the FCC Rules. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment on and off, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

Functions

Automatic play:	•All tracks
Direct access play:	•Direct access to any track, index, or time on disc
Program play:	•Max. of 20 program selections
Skip play:	•Forward and backward track skip
	•Forward and backward program track skip
Search play:	•Forward and backward manual search
	•Button search (2-speed)
	•Dial search (2-speed)
Display functions:	•Music Matrix (20 tracks)
	•Track number display
	•Index number display
	•Time display (min./sec./1/10th sec.)
	•Programmed order (No.) (when recall button is pressed)
	•Overflow mark (▶)
	•Overflow indicator (>)
	•Repeat indicator
	•Standby indicator
	•Auto cue indicator
	•Time mode indicator
	•Emphasis indicator
	When using remote control unit:
	•dB display
	•Level indicator
	•Music scan indicator
	•Remote control indicator
■ Headphones:	
Output level:	100 mW max. (variable)
Impedance:	32Ω
Plug:	¼ inch stereo

Infrared remote control unit

Remote control buttons:	Basic buttons: 7 Program buttons: 12 Time mode select buttons: 2 Index button: 1 Music scan button: 1 Repeat button: 1 Asterisk button: 1 Digital volume attenuation buttons: 2
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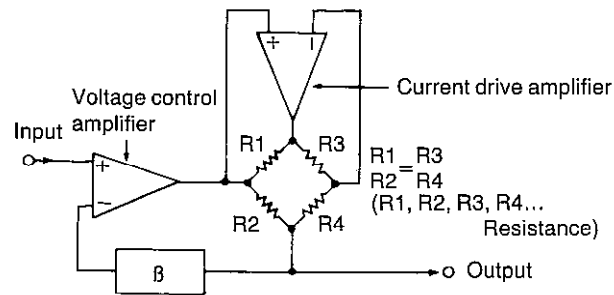
Dimensions

(W×H×D):	6.4×15.5×1.8 cm
Batteries:	UM-3 "AA" batteries or IEC R6 or equivalent (1.5 V×2)
Weight:	140 g (0.3 lb.) (including batteries)

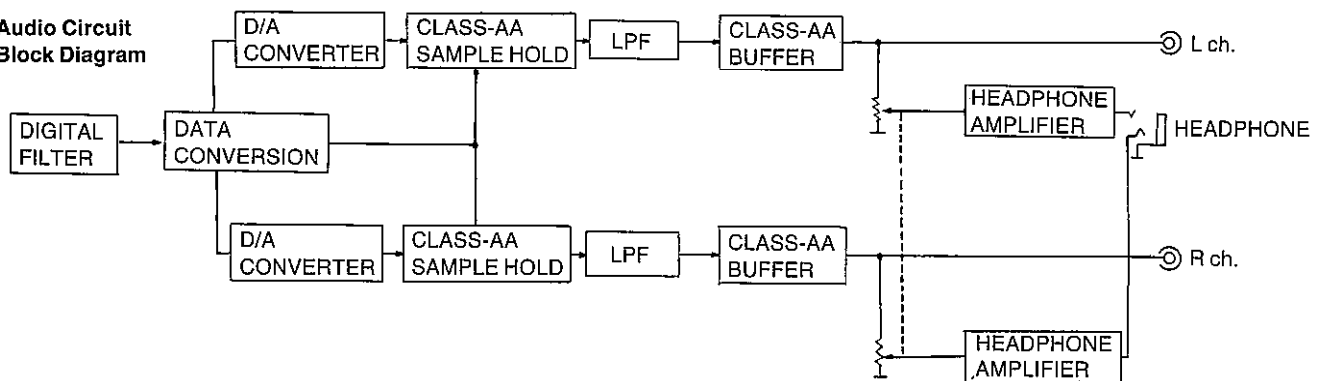
Specifications are subject to change without notice.
Weight and dimensions are approximate.

Diagrams and Cross Section of the SL-P1200

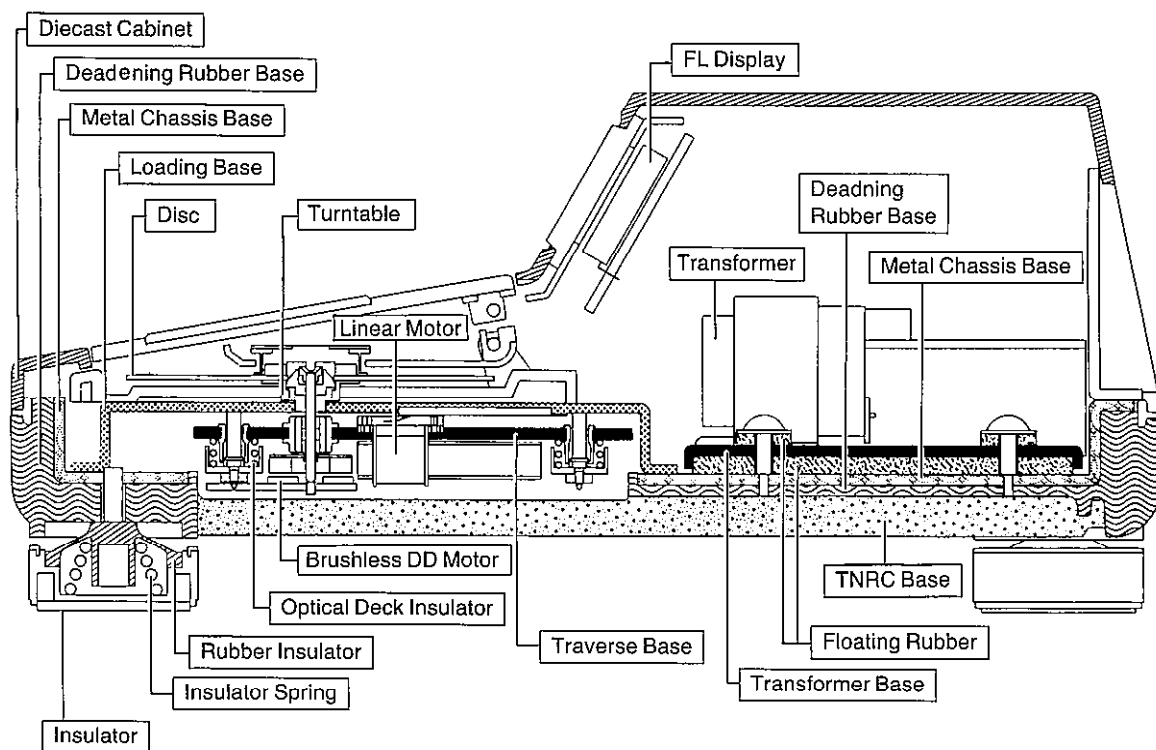
■ CLASS AA Theory Diagram



■ Audio Circuit Block Diagram








■ Cross Section



Troubleshooting guide

If the unit does not operate properly, check all of following points, as well as connections and the control positions of all components connected to this unit, before requesting professional servicing. This table does not include checks for mistaken connections or incorrect settings of other components. If the problem is not solved by this table or is not included in the problems listed below, contact your Technics dealer for assistance.

Problem		Causes	Remedy
Disc compartment does not open when the open button is pressed during play or in the pause mode.		<ul style="list-style-type: none"> • This is not a malfunction. This is a design feature which protects the disc. 	<ul style="list-style-type: none"> • When opening the disc compartment, first press the stop button to stop disc platter rotation, then press the open button.
Disc is inserted but number of tracks and playing time are not displayed.		<ul style="list-style-type: none"> • The lock shaft is in the out position (■). • Disc is inserted upside down. • Disc is dirty. • Disc is scratched. • Disc is seriously warped. • A non-standard disc is inserted. • Moisture has formed inside the player. 	<ul style="list-style-type: none"> • Press to the in (unlocked) position (■ — ■). • Insert disc again properly. • Wipe clean with soft cloth. • Use a new disc. • Use a new disc. • Use only discs with the  mark. • Wait about 20 to 30 minutes.
Certain sections of a disc are not played normally.		<ul style="list-style-type: none"> • The lock shaft is in the out position (■). • Disc is dirty. • Disc is scratched. 	<ul style="list-style-type: none"> • Press to the in (unlocked) position (■ — ■). • Wipe clean with soft cloth. • Play disc skipping over scratched sections (if so desired); otherwise replace the disc.
No search performed when search dial is turned.		<ul style="list-style-type: none"> • The dial search button is not "on". (Dial search indicator (■) is not illuminated.) 	<ul style="list-style-type: none"> • Press the dial search switch to "on". (Dial search indicator (■) will be illuminated.)
Sound is strange.		<ul style="list-style-type: none"> • The pitch control switch is in the "on" position and the pitch control knob in a position other than . 	<ul style="list-style-type: none"> • Slide the pitch control knob to the center position (.
Intervals between tracks (songs) are unusually long.		<ul style="list-style-type: none"> • The auto space button is "on". (The auto space indicator is illuminated.) 	<ul style="list-style-type: none"> • Press the auto space button to cancel this function.
Play stops at the beginning of each track.		<ul style="list-style-type: none"> • The auto cue button is "on". (The auto cue indicator is illuminated.) 	<ul style="list-style-type: none"> • Press the auto cue button to cancel this function.
Elapsed playing time is not shown in the display.		<ul style="list-style-type: none"> • Time display mode is set to a different mode. 	<ul style="list-style-type: none"> • Press the correct button for the desired display mode.
Disc is not played normally.		<ul style="list-style-type: none"> • The controls were not operated as described in the instructions. 	<ul style="list-style-type: none"> • Switch power OFF and then operate in accordance to instructions.
Remote Control	Remote control commands are not performed.	<ul style="list-style-type: none"> • No disc is inserted in the holder. • The remote control unit batteries are weak. • The remote control unit is being used in an improper location. 	<ul style="list-style-type: none"> • Insert a disc. • Replace the batteries. • Be sure the distance and angle are correct and that no obstacles are blocking the signal path.
	Disc play starts but the volume level is very low.	<ul style="list-style-type: none"> • Digital volume attenuation button on the remote control unit is pressed. (The  indicator is illuminated.) 	<ul style="list-style-type: none"> • Press the  button on the remote control unit to return to 0 dB.

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