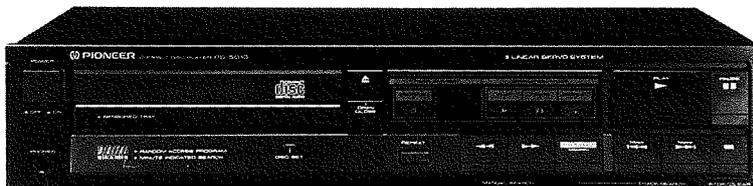


Operating Instructions

COMPACT DISC PLAYER

PD-5010



**COMPACT
disc
DIGITAL AUDIO**

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. In accordance with the power and voltage requirements of differing areas, the following model names are used to designate models with differing electrical specifications.

Models	Line voltage
HEM, HEZ, NE, NEZ	a.c. 220 volts ~
WEM, WB, WP	a.c. 220-240 volts ~
S, S/G, SS	AC 110, 120, 220, 240 volts (Switchable voltage)
D, D/G	AC 120, 220, 240 volts (Switchable voltage)
R, R/G	AC 110-120, 220-240 volts (Switchable voltage)
KUT, KCT, KU, KC	AC 120 volts
HB, HP, YP, YB	a.c. 240 volts ~

NOTES:

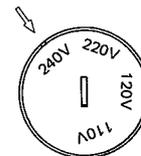
- The model names are stamped on the packing case.
- These operating instructions are prepared on the basis of the HEM model, and they can be used for other models. Although the design of the power plug and the power outlet shown may differ from the actual one, the operating procedures are the same.

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

LINE VOLTAGE SELECTOR SWITCH (Only multi-voltage models are provided with this switch, U.S.A., Canadian, European, U.K. and Australian models are not provided with this switch.)

The line voltage selector switch is located on the rear panel of this player. Before your player is shipped from the factory, the switch is set to the power requirements of the player's destination. Check that it is set properly before plugging the power cord into the 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:

- Provide yourself with a medium-sized (flat-blade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it so that the power voltage marking of your area points to the arrow.



VOLTAGE SELECTOR
SELECTEUR DE TENSION

"This product is manufactured to comply with the radio interference requirements of EEC Directive 76/889/EEC and 82/499/EEC."

IMPORTANT NOTICE [For U.S.A. and Canadian 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.

CONTENTS

Before Operating this Unit (Preparations and Connections)	4	Maintenance	14
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Operation	8	Troubleshooting	16

 **PIONEER®**

[FOR EUROPEAN AND U.K. MODELS]

**PIONEER COMPACT DISC PLAYER (PD-5010)
APPARATUS CONTAINS LASER OF HIGHER CLASS
THAN 1. ALL OPERATION OF THE APPARATUS
SHOULD BE DONE BY A SPECIALLY INSTRUCTED
PERSON.**

The following caution label appear on your player.

Location: rear of the player



[FOR U.S.A. MODEL]

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

INFORMATION TO USER [FOR U.S.A. MODEL]

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacture's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate this component with respect to the receiver
- move this component away from the receiver
- plug this component into a different outlet so that component and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

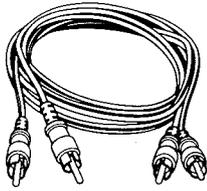
"How to Identify and Resolve Ratio-TV Interference Problems".

This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

The above instructions apply only to units which will be operated in the United States.

BEFORE OPERATING THIS UNIT (Preparations and Connections)

1. CHECK ACCESSORIES



Output cords

PRECAUTIONS REGARDING INSTALLATION

Install this component apart from tuners or television sets. If installed too near such units, noise and image disruption may occur. Such noise may be especially noticeable when an indoor antenna is used. In this case, change to an outdoor antenna or turn off power to this unit.

Noise may be produced if a television set is nearby. In this event, turn off the television's power switch.

2. CONNECTING THE CD PLAYER TO AN AMPLIFIER

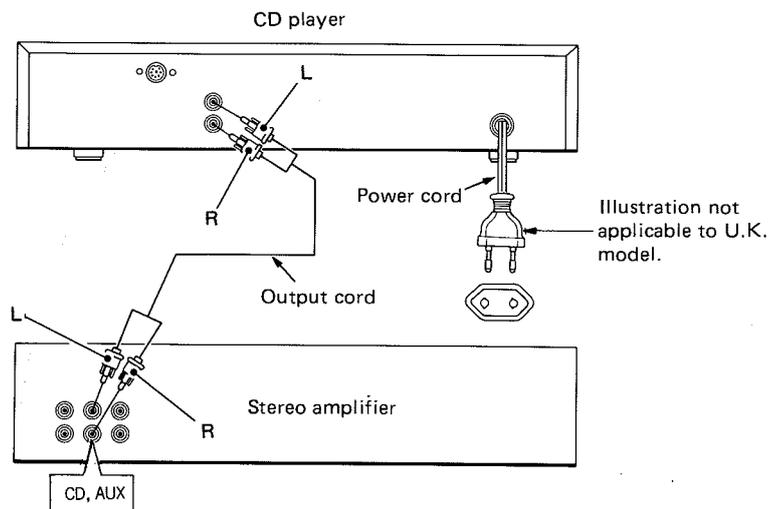
Connecting the output cord:

Connect the plugs of the output cord between the amplifier's input terminals (CD or AUX), and the CD player's output terminals.

- Connect the white plug to the left (L) and the red plug to the right (R) terminals.
- Be sure to insert plugs fully into their terminals.

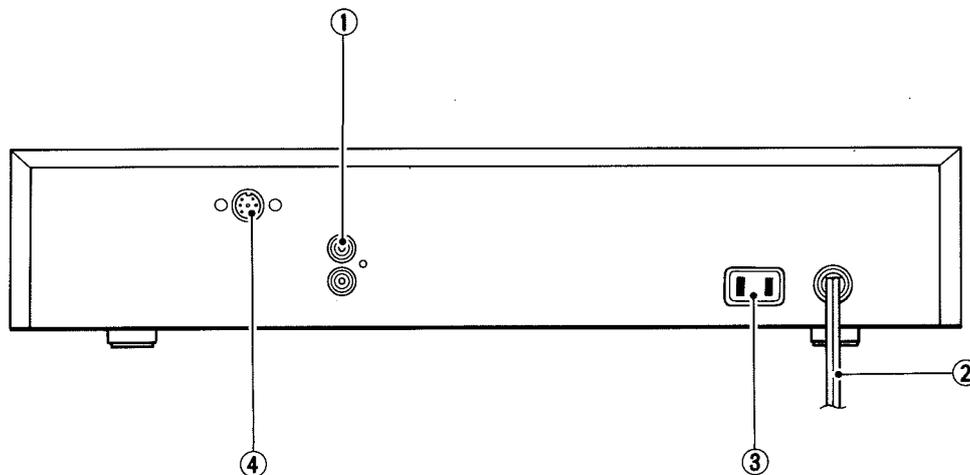
Connecting the power cord:

Connect the power cord plug to the auxiliary AC outlet of your amplifier, or to a household wall outlet.



PANEL FACILITIES

REAR PANEL



① AUDIO OUT terminals

② Power cord

③ AC OUTLET (UNSWITCHED, MAX. 100W)
[Only U.S.A. model is provided with this outlet. Other models are not provided with this outlet.]

- Power is continuously supplied to the component connected here, regardless of the setting of the power switch (ON/OFF). Turn the connected component ON/OFF by using its own power switch.
- Do not connect any component having a power consumption exceeding 100W.

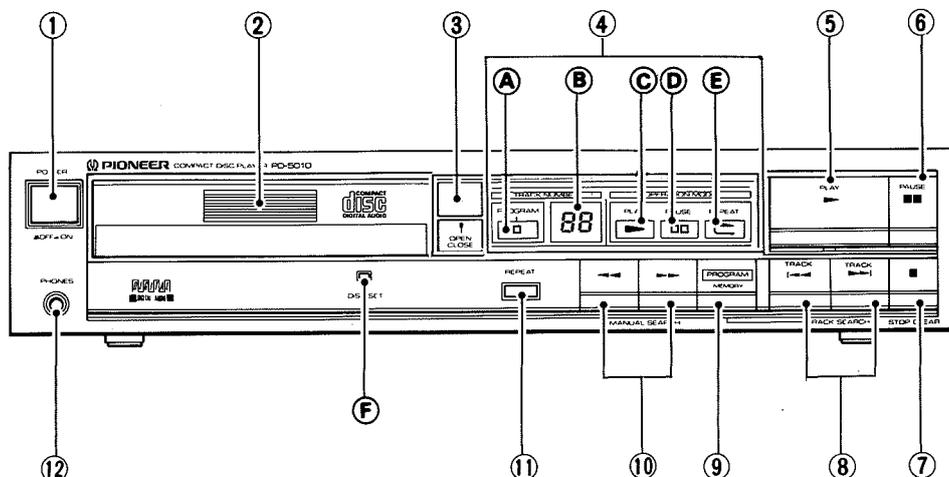
NOTE:

- Never connect any appliance (toaster, hair dryer, etc.) whose power consumption exceeds the wattage (W) noted on the outlet panel. Damage to components or fire hazards could result.
- Even if a television set has a rated power consumption less than the permissible outlet wattage, when its power is first turned on it may have a temporary electrical current flow that exceeds the permissible value. For this reason, do not connect television sets or monitors to this outlet.

④ SUBCODE OUT terminal

This terminal will be used for outputting subcodes (data recordable on compact discs together with audio signals) in future audio applications.

FRONT PANEL



① POWER switch

Press to turn power to the unit ON and OFF.

② Disc tray

Compact discs are loaded here. When the power is turned on and the OPEN/CLOSE switch is pressed, the disc tray opens toward the front. To close the tray, either press the OPEN/ CLOSE switch again, or push the tray in manually.

③ OPEN/CLOSE switch

Press to open or close the disc tray. The disc tray alternately opens and closes each time the switch is pressed.

④ Indicators

- Ⓐ PROGRAM : Lights after tracks are programmed.
- Ⓑ TRACK : Indicates the number of the track currently playing or being programmed.
- Ⓒ PLAY : Lights during playback.
- Ⓓ PAUSE : Lights during the pause mode (playback has been temporarily interrupted).
- Ⓔ REPEAT : Lights during repeat play.
- Ⓕ DISC : Lights when a disc has been loaded correctly.

⑤ PLAY key

Press to begin playback, and to release the player from the pause mode.

⑥ PAUSE key

Press to temporarily interrupt playback. When pressed again, the player is released from the pause mode.

⑦ STOP/CLEAR key

Press to stop playback. When pressed, all operations stop. Also, when the player is in the stop mode, press this key to cancel memorized contents of programmed play.

⑧ TRACK SEARCH keys

When the player is in the normal play or programmed play modes, or during the pause mode, these keys are pressed to perform search for a desired track. When pressed, the disc will be advanced to the next track, or reversed to the previous track.

[▶▶] : When pressed once, the disc playback advances to the beginning of the next track; when pressed continuously, the disc playback moves to the beginning of succeeding tracks on the disc (during programmed playback, it moves to the beginning of the next programmed track).

[◀◀] : When pressed once, the disc playback returns to the beginning of the currently playing track; when pressed continuously, the disc playback moves further in reverse to the beginning of previous tracks on the disc (during programmed playback, it returns to the beginning of the previously programmed track).

⑨ PROGRAM key (PROGRAM MEMORY)

Use to memorize desired programs for programmed playback. Press this key after selecting a desired track with the track search key. Tracks will be memorized in the order the keys are pressed.

⑩ MANUAL SEARCH keys

These keys are pressed to perform fast forward and fast reverse when the player is in the play or pause modes. The function operates only during the time the keys are held depressed; if the keys are held depressed for three seconds or more, the speed increases.

[▶▶] : Fast forward is performed (if end of disc is reached, player enters the pause mode).

[◀◀] : Fast reverse is performed (if beginning of disc is reached, player enters the pause mode).

During programmed play, the player will enter the pause mode just before moving to the next (or previous) track.

⑪ REPEAT key

Press to perform repeat playback.

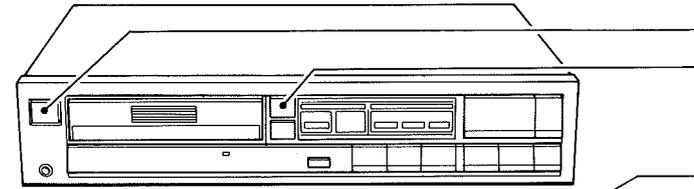
- When pressed during the normal playback mode, all tracks on the disc will be played back repeatedly.
- During programmed playback, the programmed tracks will be played back repeatedly in the programmed order.

⑫ PHONES terminal

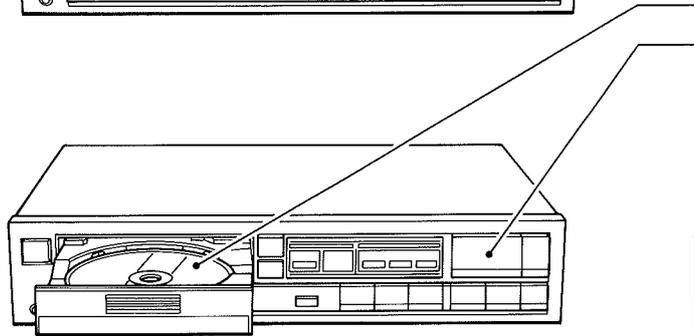
When using headphones, connect their plug here.

OPERATION

PLAY PROCEDURES (BASIC OPERATIONS):

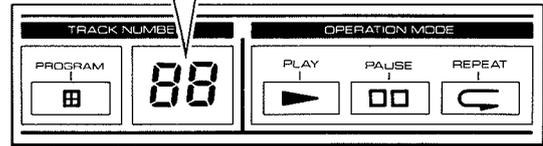
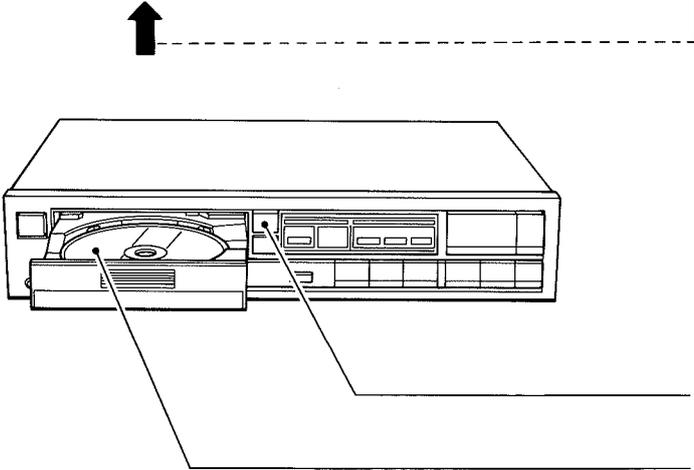


- (1) Set your stereo amplifier function for compact disc playback (for details, consult the operating instructions for your stereo amplifier).
- (2) Press the POWER switch to turn on power.
- (3) Press the OPEN/CLOSE switch to open the disc tray.

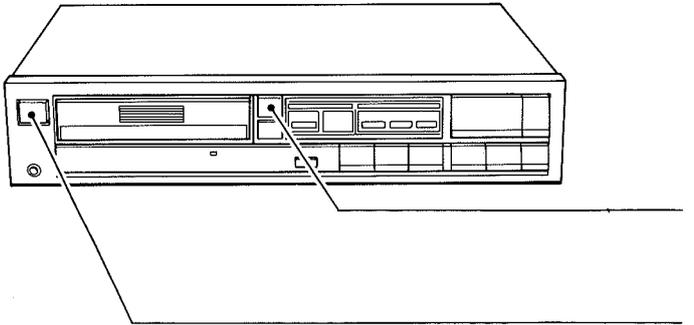


- (4) Load a disc on the tray with the label facing up.
- (5) Press the PLAY key to begin playback.
The disc tray will retract into the player, and playback will begin from the first track on the disc. Use the controls on your amplifier to adjust sound volume and tone.

Before pressing the PLAY key, if the disc tray is closed manually, or by pressing the OPEN/CLOSE switch, the TOC*1 data recorded will be read, and that data (total number of tracks on the disc) will be displayed on the indicators for about 4 seconds.



- (6) Playback ends.
- (7) Press the OPEN/CLOSE switch to open the disc tray.
- (8) Remove the disc.
When you wish to exchange the disc with another for continued playback, begin again from step (4).



- (9) Press the OPEN/CLOSE switch to close the disc tray.
The disc tray may also be closed manually by pressing gently with your hand.
- (10) Press the POWER switch to turn off power.

Operation example

● POWER OPEN/CLOSE load disc PLAY —

Playback begins.

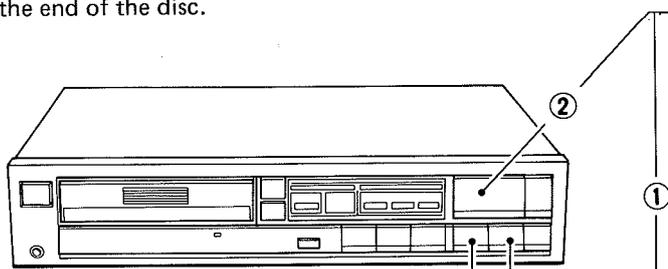
● OPEN/CLOSE remove disc OPEN/CLOSE

POWER — Playback completed.

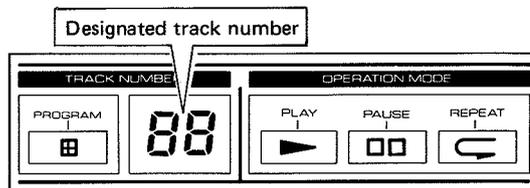
*1: TOC (Table of Contents) refers to data regarding track numbers and playing time recorded on the inner periphery of a disc.

OPERATIONS FOR PLAYBACK FROM A DESIGNATED TRACK:

Playback will begin from a designated track, and continue to the end of the disc.



- (1) After performing steps (1) to (4) of the section "Play Procedures", select the desired track number with the TRACK SEARCH keys, and press the PLAY key. Playback will begin from the track selected with the TRACK SEARCH keys, and continue to the end of the last track on the disc.



Operation example

- [TRACK SEARCH] x 5 [PLAY] – Playback begins from track 6.
- [TRACK SEARCH] x 13 [PLAY] – Playback begins from track 14.

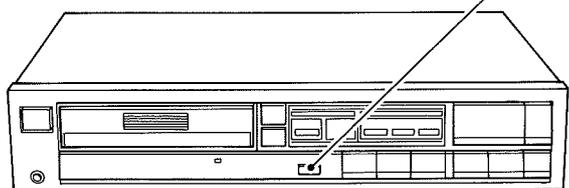
- (2) After completion of playback, perform steps (7) to (10) of the section "Play Procedures".

NOTE:

- Before beginning playback, if you use the TRACK SEARCH keys to designate a track number not corresponding to any actual track number on the disc, and then press the PLAY key, playback will begin from the first track on the disc.

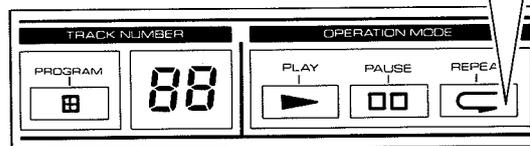
OPERATIONS FOR REPEAT PLAYBACK:

- During normal playback, all tracks on the disc will be played back repeatedly.
- During programmed playback, the tracks programmed will be played back repeatedly in the order programmed.



- (1) With the player in the play or stop mode, press the REPEAT key.

The [REPEAT] indicator will light.

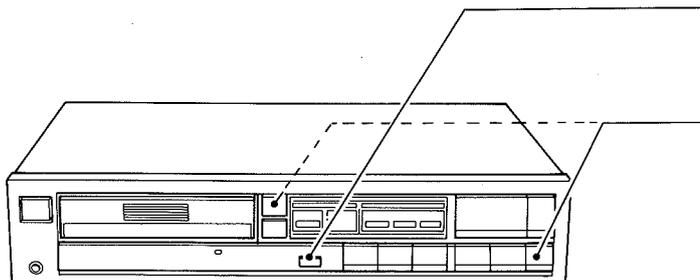


Operation example

- [REPEAT] [PLAY] or [PLAY] [REPEAT]

- (2) When the last track completes playback, playback will begin again from the first track.

TO CANCEL THE REPEAT MODE:



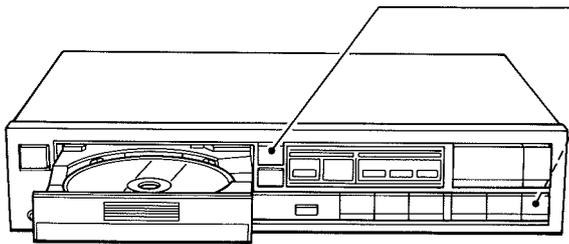
- Press the REPEAT key once again. The [REPEAT] indicator will go out, and the player will revert to the normal (or programmed) playback mode.
- When the STOP key or OPEN/CLOSE switch is pressed, playback will stop.

Operation example

- [REPEAT] or [STOP] or [OPEN/CLOSE]

OPERATION

TO STOP PLAYBACK:



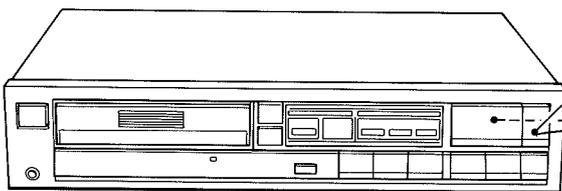
- (1) Press the STOP key or the OPEN/CLOSE switch. When the OPEN/CLOSE switch is pressed, the disc tray will automatically open.
- (2) Perform steps (8) to (10) of the section "Play Procedures".

Operation example

STOP or OPEN/CLOSE

PAUSE OPERATION:

[To temporarily stop (pause) playback]:

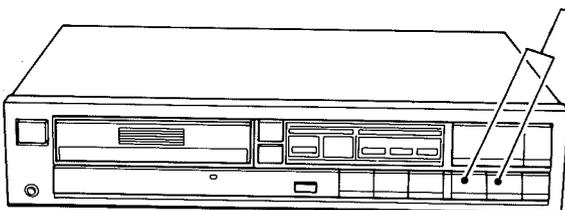


- (1) Press the PAUSE key. The [PAUSE] indicator will light, and playback will be paused at that point.
- (2) To resume playback, press the [PAUSE] key again, or the [PLAY] key.

Operation example

- PAUSE – Playback stops temporarily.
- PAUSE or PLAY – Playback begins again.

[To temporarily stop (pause) playback at the beginning of a track]:



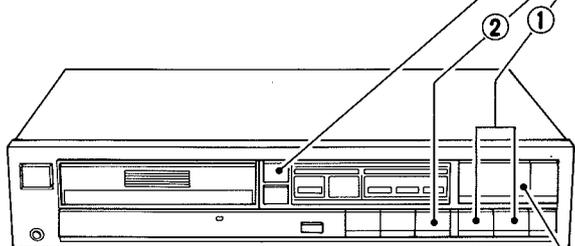
- (1) ● During stop mode, press the PAUSE key, the TRACK SEARCH key to select the track number, and then the PLAY key. (Keys may also be pressed in the order of PLAY key then TRACK SEARCH key.)
 - During playback, first press the PAUSE key and then the TRACK SEARCH key to select the track number.
- (2) To resume playback, press the PAUSE key or the PLAY key.

Operation example

- During stop mode . . .
PAUSE ►► x 2 PLAY – Pause at the beginning of track 3.
- During playback . . .
PAUSE ►► x 2 – Pause at the beginning of track 3.
- PAUSE or PLAY – Playback resumes.

OPERATIONS FOR PROGRAMMED PLAYBACK:

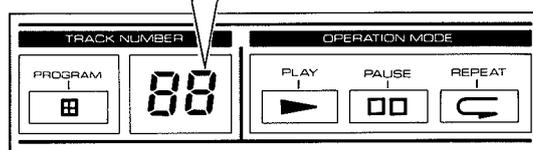
- With this function, you can play back the tracks on a disc in any order desired.
- Up to 27 tracks (steps) among up to 99 can be memorized for programmed play.



- (1) Perform steps (1) to (4) of the section "Play Procedures".
- (2) Close the disc tray manually, or by pressing the OPEN/CLOSE switch:
- (3) Select the track number using the TRACK SEARCH keys, then press the PROGRAM key (program is memorized).

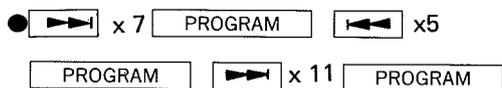
Repeat this procedure for each track you wish to memorize, and in the order of desired playback. Up to 27 tracks (steps) among up to 99 can be memorized.

After memorizing each track, the indicator will display the number of the track programmed.



Operation example

- Memorizing a program and beginning playback (to program the 8th track, 3rd track, and 14th track, in that order):



– Program is memorized.

- **PLAY** – Programmed playback begins.

- To clear a program before beginning playback:

- **STOP/CLEAR** – Total program is cleared.

- To cancel playback and clear the program:

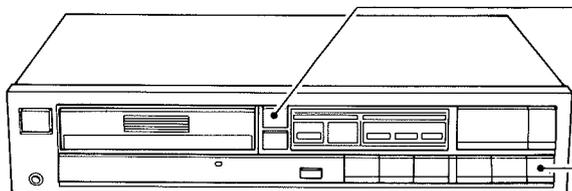
- **STOP/CLEAR** – Playback is cancelled.
- **STOP/CLEAR** **STOP/CLEAR** or **OPEN/CLOSE** – Playback is cancelled, and program is cleared.

- **Revising or clearing a program:**
If you make a mistake when memorizing a track for programmed playback, or wish to change a memorized track, press the STOP/CLEAR key. When this is done, all programmed tracks will be cleared, and it will be necessary to rememorize all tracks from the beginning.

- (4) Press the PLAY key to begin programmed playback. During playback, the programmed contents cannot be changed or cleared.
- (5) Playback ends. When the last track programmed completes playback, the programmed play mode will end. Perform steps (7) to (10) of the section "Play Procedures".

- **When repeat playback is performed:**
When the last programmed track completes playback, playback will return to the first programmed track, and programmed play will begin again. Repeat playback will continue in this way until the REPEAT key is pressed once again, or the STOP/CLEAR key is pressed.

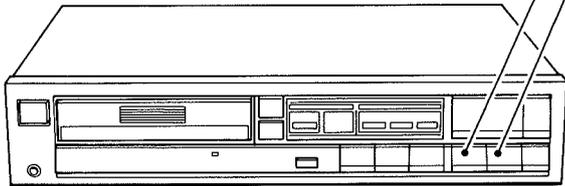
Cancelling programmed playback and clearing a program:



- When the OPEN/CLOSE switch is pressed, playback is stopped (the memorized program is simultaneously cleared).
- When the STOP/CLEAR key is pressed, playback will be stopped. In this case, however, the memorized program contents will not be cleared. To clear the program, press the STOP/CLEAR key once again.

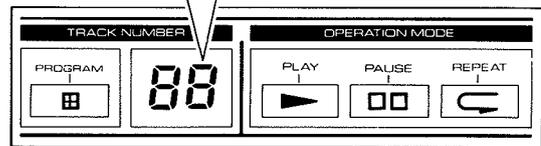
PERFORMING TRACK SEARCH, MANUAL SEARCH:

[Track search]: Use the TRACK SEARCH keys. During normal or programmed play, or during the pause mode, this function allows you to quickly find the beginning of a desired track (track search). Also, any number of tracks can be skipped during search when so desired.

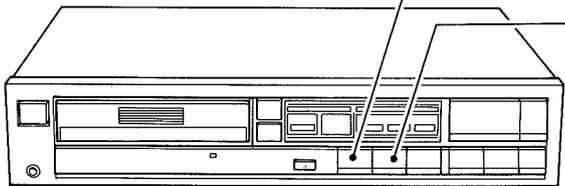


- When the [▶▶] key is pressed once, the playback advances to the beginning of the next track on the disc. When pressed continuously, playback is advanced to further tracks on the disc (during programmed play, playback advances to the beginning of the next programmed track).
- When the [◀◀] key is pressed once, playback returns to the beginning of the currently playing track; when pressed continuously, playback returns to earlier tracks on the disc (during programmed playback, playback returns to earlier programmed tracks).

The track number of the track currently being searched for will be displayed on the indicator; watch this indicator while searching for the desired track.

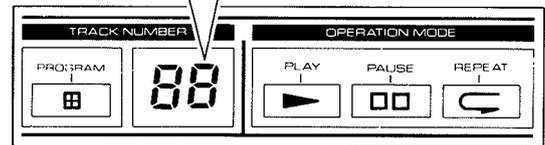


[Manual search]: Use the MANUAL SEARCH keys. During playback or the pause mode, this function allows you to quickly advance or reverse the disc to find a desired track (manual search). When the keys are pressed during playback, the first 3 seconds the keys are held depressed search will be performed rather slowly, and thereafter the speed will increase. Listen to the sound from your speakers or headphones while performing the search. When the keys are pressed during the pause mode, the disc will be advanced or reversed at high speed in one-minute units. When the keys are released, the player returns to the original mode (playback or pause).



- When the [▶▶] key is pressed, the disc will be advanced quickly. When held depressed, the speed will increase, and if the disc reaches its end, the player will enter the pause mode.
- When the [◀◀] key is pressed, the disc will be reversed quickly. When held depressed, the speed will increase, and if the disc is reversed to its beginning, the player will enter the pause mode.

The elapsed time of the track currently being searched will be displayed in minutes on the indicator; watch this indicator while searching for the desired track.



NOTE:

During programmed playback, only the presently playing track can be fast forwarded or reversed. Also, the player will enter the pause mode just before the next (or previous) track is reached. To resume playback, press the [PLAY] key.

Player operations and corresponding indicator displays

Operating mode	Indicator display		Comments
	TRACK	Other	
Power ON Disc tray OPEN	0 0		After OP display, 00.
Disc tray CLOSE	Total number of tracks		Displayed for 4 seconds only, thereafter same as "Stop" mode.
Stop mode	0 1		4 seconds after TOC is read. At end of playback, when STOP/CLEAR key is pressed.
Playback mode (Play, Program, Repeat) Pause mode	Currently playing track no.	<ul style="list-style-type: none"> • During playback, PLAY lights; during pause, PAUSE lights. • During programmed or repeat playback, PLAY or PAUSE lights. Depending on play mode, PROGRAM or REPEAT lights.	

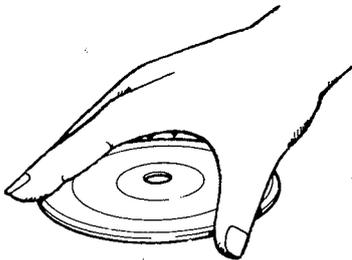
MAINTENANCE

CARE OF DISCS

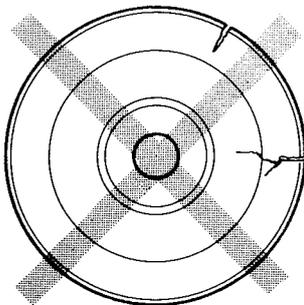
- With this player, use discs which display the mark shown below (Optical audio digital discs).



- When holding discs, do not touch their signal surfaces. Hold by the edges, or by one edge and the center hole.

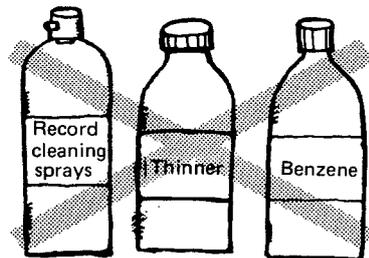


- Do not affix gummed labels or tape to the label surfaces. Also, do not make marks or scratches on the label.
- Discs rotate at high speed inside the player. Do not use damaged (bent or warped) discs.



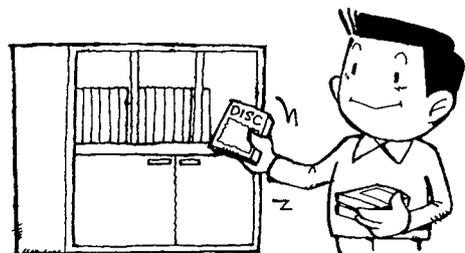
CLEANING DISCS

- Even if fingerprints or smudges are on the surface of the disc, there will be no direct affect on the recorded signals, but depending on the degree of the dirt, the brightness of the light reflected from the signal surface may be dimmed, causing a decrease in sound quality. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery.
- If a disc becomes severely dirty, dip a soft cloth in water and after wringing it out well, wipe the dirt away gently, then remove any water drops with another soft, dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Also, never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.



STORING DISCS

- Discs are made of the same kinds of plastics used for previous analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with high heat and humidity, or extremely low temperatures. Avoid leaving discs in cars, since the seat of a car in direct sunlight can become unbelievably hot.
- Always read and abide by the precautionary notes listed on disc labels.



CONDENSATION

When this unit is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside and the unit may not do full justice to its performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

SPECIFICATIONS

1. General

Type	Compact disc digital audio system
Usable discs	Diameter 120 mm Thickness 1.2 mm
Maximum playing time: 60 minutes or more (stereo)	Linear speed: 1.2 ~ 1.4 m/sec
Rotation direction (signal side): Counterclockwise	
Signal format	Sampling frequency: 44.1 kHz Sampling bit number: 16 bit linear
	Transmission bit rate: 4.3218 Mbit/sec.
	Modulation system: EFM
	Error correction system: CIRC
	Preemphasis: 50/15 μ sec (during use)
Laser used	Semiconductor laser: wavelength 780 nm
Power requirements	
HEM model	AC 220V, 50, 60 Hz
HB, HP models	AC 240V, 50, 60 Hz
KU, KC models	AC120V, 60 Hz
S, S/G models	AC 110/120/220/240V (switchable), 50, 60 Hz
Power consumption	
HEM, HB, HP models	17 W
KU, KC models	16 W
S, S/G models	12 W
Operating temperature	+5°C ~ +35°C
Weight	4.7 kg (10 lb 5 oz)
External dimensions	420(W) x 310(D) x 91(H)mm 16-1/2(W) x 12-1/5(D) x 3-3/5(H)in

2. Audio section

Frequency response	2 Hz ~ 20 kHz \pm 0.5 dB
S/N	96 dB (1 kHz)
Dynamic range	95 dB (1 kHz)
Channel separation	93 dB (1 kHz)
Wow and flutter	Quartz oscillator accuracy
Total harmonic distortion	0.002% (1 kHz, 0 dB)
Total harmonic distortion and noise	0.004% (1 kHz, 0 dB)
Output voltage	2 Vrms (1 kHz, 0 dB)
Channels	2-channel (stereo)

3. Functions

- Play
- Manual search
- All-track repeat
- Programmed playback
- Programmed repeat
- Pause
- Track search
- Initial play from selected track

4. Accessories

- Pin-plug audio cable 1
- Operating Instructions 1

NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check out the points below. Sometimes, the trouble may lie in another component. Investigate the other components and electrical appliances being used.

If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Probable cause	Remedy
Disc tray doesn't open when OPEN/CLOSE switch is pressed.	<ul style="list-style-type: none">• Power plug is disconnected from outlet.• POWER switch is OFF.	<ul style="list-style-type: none">• Connect plug to amplifier or wall outlet.• Press POWER switch to ON.
When playback is started, it stops immediately.	<ul style="list-style-type: none">• Disc is loaded upside down.	<ul style="list-style-type: none">• Load the disc correctly with label side up.
No sound.	<ul style="list-style-type: none">• Output cords are connected incorrectly or loosely.• Incorrect operation of stereo amplifier.• Pin plugs and/or amplifier terminals are dirty.• Player is in pause mode.	<ul style="list-style-type: none">• Connect properly.• Check the settings of amplifier switches and sound volume controls.• Clean away dirt.• Press the PLAY key.
Sound is distorted.	<ul style="list-style-type: none">• Incorrect connections.• Pin plugs and amplifier terminals are dirty.	<ul style="list-style-type: none">• Connect to amplifier's AUX or TUNER terminals. Do not connect to PHONO terminals.• Clean away dirt.
With certain discs, loud noise is produced, or play stops.	<ul style="list-style-type: none">• Disc has bad scratch or warp.• Disc is extremely dirty.	<ul style="list-style-type: none">• Replace the disc.• Clean disc.