COMPACT DISC PLAYER
COMPACT-DISC-SPIELER
PLATINE DISQUE AUDIO NUMÉRIQUE
LETTORE DI "COMPACT DISC"

Operating Instructions
Bedienungsanleitung
Mode d'emploi
Istruzioni per l'uso

P-DX700

Compact Discs which bear the mark shown below may be used with this player.

COMPACT
disc
DIGITAL AUDIO

ENGLISH

DEUTSCH

FRANÇAIS

ITALIANO

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

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

HEM model:
For Europe excluding U.K. ('HEM' stamped on packing case): A 2-point (220 V /240 V) voltage selector switch is provided.

HB model:
For U.K. ('HB' stamped on packing case): A 2-point (220 V /240 V) voltage selector switch is provided.

KU model:
For U.S.A. ('KU' stamped on packing case): power line voltage is 120 volts.

S and S/G models:
For destinations excluding above ('S' or 'S/G' stamped on packing case: A 4-point (110 V/120 V/220 V/240 V) voltage selector switch is provided.

NOTE:
Depending upon the models, the design of the power plug differs.

HEM, HB, S, and S/G models are provided with the LINE VOLTAGE SELECTOR switch.

Please check that it is set properly before plugging the power cord into an outlet.

If it is not set properly, change the setting according to the LINE VOLTAGE SELECTOR on page 6. KU (for U.S.A.) model is not provided with a LINE VOLTAGE SELECTOR switch.

IMPORTANT NOTICE (For KU model)

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.

CAUTION

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

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

SAFETY INSTRUCTIONS [FOR KU MODEL]

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.
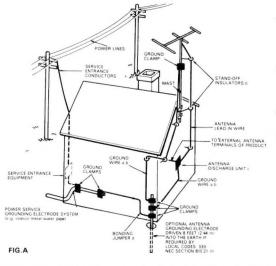
POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NEPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

FIG.A

a) Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel, bronze wire, or larger as ground wire.

b) Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.

c) Mount antenna discharge unit as closely as possible to where lead-in enters house.

d) Use jumper wire not smaller than No.6 AWG (13.3 mm²) copper or equivalent when separate antenna-grounding electrode is used.

IMPORTANT 1

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

IMPORTANT 2

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off. Disconnect the wall plug when the equipment is not in (regular) use, e.g. when on vacation.

FOR USE IN THE UNITED KINGDOM

WARNING: This plug must only be connected to electronic apparatus equipped with suitable sockets.
Otherwise cut off and dispose of the plug, and fit an appropriate one in accordance with the instruction below.

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

Blue: Neutral
Brown: Live

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

[FOR KU MODEL] Information to User

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer'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 the equipment with respect to the receiver
● move the equipment away from the receiver
● plug the equipment into a different outlet so that equipment 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 Comission helpful:

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

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

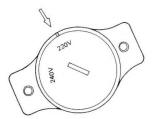**ENGLISH**

BEFORE OPERATION

LINE VOLTAGE SELECTOR SWITCH
(For model HEM, HB, S and S/G)

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:

1. Disconnect the power cord.
2. 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.

KU (for U.S.A.) model is not provided with LINE VOLTAGE SELECTOR switch.

HEM and HB models

S and S/G models

INSTALLATION

When installing the player, pick a flat, stable location. Avoid the following types of places:

- Locations struck by direct sunlight.
- Locations with high humidity or large amounts of dust.
- Locations which are extremely hot or cold.
- Near heat-generating appliances.
- Shaky locations, or those with vibration.
- Cramped locations that prevent air flow through air vents.
- On top of rug, beds, or sofas.
- In kitchens or other places where the player may be struck by oil smoke, steam, or heat.

Heavy items should not be rested on top of the player.

NOTICE

Moisture will form in the operating section of the player and the player's performance will be impaired if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly.

To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or ensure that the room temperature rises gradually.

ABOUT THE DISC TABLE PAD

A protective pad has been inserted inside the disc table. This pad cannot be removed without turning on the power, and pressing the OPEN/CLOSE button to open the disc table.
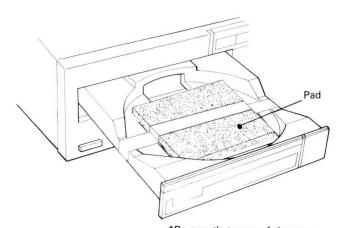
Remove this pad before using the player for the first time.

After removing the pad, store it with the other packing materials, and replace it in the disc table when transporting the player during future moves.

Pad

*Be sure that none of the tape securing the pad is torn and left stuck to the disc table.
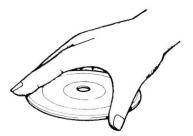
DISC HANDLING PRECAUTIONS
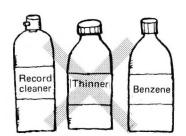
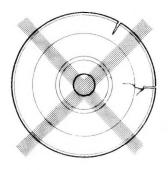- Discs which bear the mark shown below may be used with this player.

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- When handling discs, be careful not to touch the signal surface. Hold discs by the edges, or by the center hole and one edge.
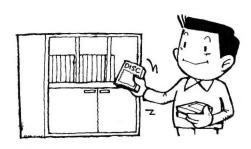

- Do not affix tape, paper, or gummed seals to the disc's label surface. Also be careful not to scratch the label surface.
- The disc revolves at high speed inside the player. As a result, do not attempt to use discs that are cracked or severely warped.

- Fingerprints or dirt on the disc surface do not directly affect the signals memorized on the disc, but the dirt may cause the light reflection on the signal surface to be altered, thus causing a reduction in sound quality. Be sure to dust off dirt carefully, using a soft cloth to remove any dust from the center of the disc outwards. If neccessary, use a soft cloth moistened with diluted neutral detergent to remove heavy dirt or fingerprints.
- Record cleaners, anti-static sprays, etc., must not be used with discs. Also, benzene, thinners, or other volatile cleaners may cause the disc surface to melt.
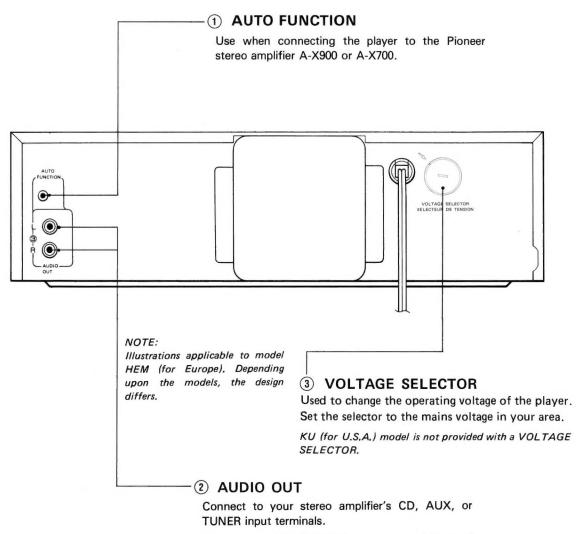

Record cleaner | Thinner | Benzene

- Discs are made of plastic. Take care not to allow discs to warp. When finished playing, return discs to their cases and store them vertically, avoiding very hot, humid, or very cold places. Be careful when transporting discs, since, for example the seat of a car may become unbelievably hot when left in the sun.

ENGLISH

REAR PANEL FACILITIES AND CONNECTIONS

① **AUTO FUNCTION**

Use when connecting the player to the Pioneer stereo amplifier A-X900 or A-X700.

NOTE:
Illustrations applicable to model HEM (for Europe). Depending upon the models, the design differs.

③ **VOLTAGE SELECTOR**

Used to change the operating voltage of the player. Set the selector to the mains voltage in your area.

KU (for U.S.A.) model is not provided with a VOLTAGE SELECTOR.

② **AUDIO OUT**

Connect to your stereo amplifier's CD, AUX, or TUNER input terminals.

Do not connect the PHONO input terminal of the amplifier.

Before Connecting

- Read the operating instructions for the stereo amplifier to which you intend to connect the player.
- Turn the power switch OFF to the stereo amplifier. Do not turn on the power until all connections are completed.
- The accessory connecting cord is color coded as follows:
  White RCA-plug: Left channel; Red RCA-plug: Right channel; Red miniature phone plug: to auto

- Insert all plugs firmly. Loose connections may cause noise.
- Do not connect the P-DX700's audio output terminals to the PHONO input terminals of your amplifier.

[Connection Example]

Use the accessory connecting cord to connect the player's AUDIO OUT terminals to your stereo amplifier's CD, AUX, or TUNER input terminals.

When connecting the player to the Pioneer stereo amplifier A-X900 or A-X700, match the numbers under the terminals (compact disc player is ③), and also be sure to connect the auto function terminals.
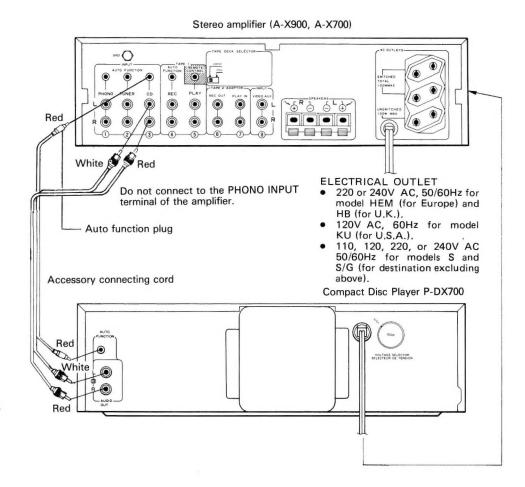
NOTE:
Illustrations applicable to model HEM (for Europe). Depending upon the models, the design differs.

Connection Procedures

1. Use the accessory connecting cord to connect the P-DX700's output terminals to the A-X700's CD input terminals.
2. Connect the auto-function plugs to the respective auto function jacks on the amplifier and P-DX700.
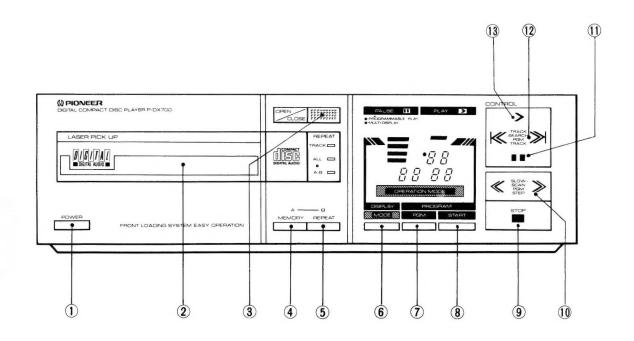3. Connect the P-DX700's power plug to the auxiliary power outlet (AC OUTLET) on the amplifier.

NOTE:
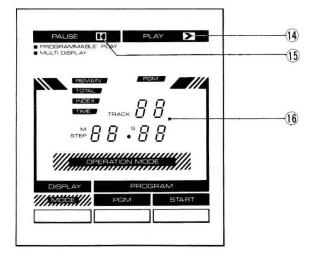*When using amplifiers without auto-function jacks, do not connect the auto-function plugs.*

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Stereo amplifier (A-X900, A-X700)

Red

White   Red

Do not connect to the PHONO INPUT terminal of the amplifier.

— Auto function plug

ELECTRICAL OUTLET
- 220 or 240V AC, 50/60Hz for model HEM (for Europe) and HB (for U.K.).
- 120V AC, 60Hz for model KU (for U.S.A.).
- 110, 120, 220, or 240V AC 50/60Hz for models S and S/G (for destination excluding above).

Accessory connecting cord

Compact Disc Player P-DX700

Red

White

Red

PANEL FACILITIES

[Indicator face]

① POWER switch

When this switch is pressed power is turned ON and the numeric display lights. Press again (released position) to turn power OFF.

② Disc Table

When the power is turned on and the OPEN/CLOSE button ③ is pressed, the disc table opens. Load the disc on top of the table.

③ OPEN/CLOSE button

After turning on the power, press this button to open the disc table. Press once again and the disc table will retract inside the player.

④ MEMORY : A button

Use to designate the starting point A (track number, minutes, seconds) when performing interval repeat playback.

When this button is pressed during playback, the player will memorize the track number, minutes, and seconds at that point.

Afterwards, if the REPEAT (B) button is pressed to designate the end point for playback, the interval between points A and B will be played back repeatedly.

⑤ REPEAT : B button

Use when performing repeat play of a single track or all tracks on a disc.

Also, when used together with the MEMORY:A button, interval repeat playback between points can be performed.

⑥ DISPLAY button

Use to switch the indication of the numeric display ⑯.

⑦ Program (PGM) button

Use to write in, change, and confirm track numbers for programmed play.

⑧ Program START button

Use this button to start programmed playback.

⑨ STOP button

Press to stop all player operations.

⑩ SLOW SCAN/PGM STEP button

This button is used to move the disc program quickly in both the forward and reverse directions.

Fast scanning is performed only during the time the button is held depressed.

This is also used as the program step (PGM STEP) button when writing in track numbers for programmed play.

⑪ PAUSE button

Press to temporarily interrupt playback. Press again to release from the pause mode.

⑫ TRACK SEARCH/PGM TRACK button

Use when searching for a particular track. It is also used to designate tracks (PGM TRACK) for programmed play.

⑬ PLAY button

Use to begin playback and release player from pause mode.

⑭ Play Indicator ($\boxed{>}$)

Lights during disc playback.

⑮ Pause Indicator ($\boxed{\text{II}}$)

Lights during the pause mode.

⑯ Numeric display

By pressing the DISPLAY button ⑥, the following 4 display modes can be selected:

TIME display	Track number and time of presently playing track
INDEX display	Track and index*numbers of presently playing track
TOTAL display	Total number of tracks and total playing time
REMAIN display	Presently playing track number, remaining time to end of disc

NOTE:
*INDEX refers to signals which are previously recorded on a disc and which indicate sub-divisions within a single track.
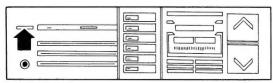
PLAYBACK

Before beginning playback
The P-DX700 plays back audio signals which are pulse code modulated (PCM). One characteristic of PCM signals is that they have an extremely wide dynamic range. As a result, you should be very careful when adjusting sound volumes of the amplifier since an excessive input may damage your speakers.

NOTE: Have you removed the disc table pad?
A protective pad has been inserted in the disc table. When using the player for the first time, be sure to remove this pad before attempting to load a disc. Store the pad carefully and return it to its position in the disc table when transporting the player.
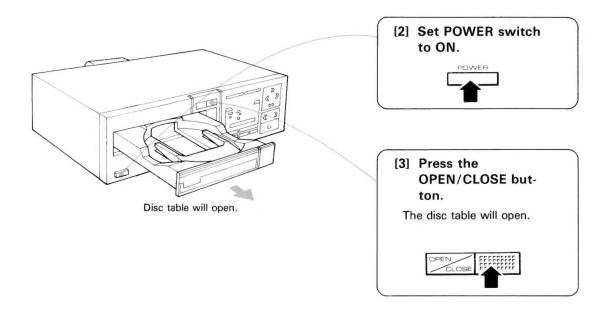

Turn on the power to the amplifier
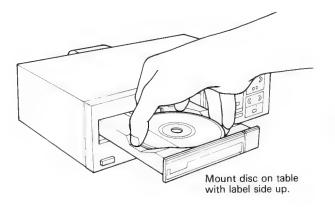
(Set function selector to the appropriate setting)

TO START PLAYBACK
[1] Turn on the power to your stereo amplifier.

Set your amplifier's function switch to the position corresponding to the terminals to which the P-DX700 is connected. When using the player in combination with the Pioneer components noted on page 5, turn on the power to the F-X900 or F-X700. In this case, there is no need to manually set the amplifier's function switch.
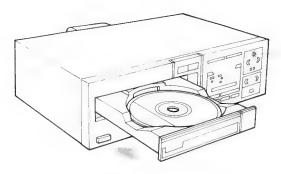

Disc table will open.

[2] Set POWER switch to ON.

[3] Press the OPEN/CLOSE button.
The disc table will open.

Mount disc on table
with label side up.

[4] Load a disc

Load the disc with its label
side facing upwards. Before
loading the disc, clean any
dirt (fingerprints, dust) from
the disc surface by wiping
gently with a soft cloth.

Disc table retracts into player.

[5] Press the PLAY button.

The disc table will retract in-
to the player, and playback
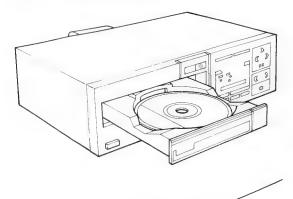will begin.

CONTROL

| NOTE |

- If a disc is damaged (scratched, deformed, etc.) or if it is mounted upside down, playback will not begin, and the disc table will open.
- A compact disc's Table of Contents (the number and playing time of the tracks on the disc) is recorded on its inner circumference. After loading a disc, if the OPEN/CLOSE button is pressed, the disc table will retract into the player, and the Table of Contents will be read, after which the player will enter the stop mode. When the Table of Contents is read, the numeric display will briefly show the TOTAL indication, and then the TIME indication.

- When the disc table is in the open position, do not press down heavily on it, and do not rest objects other than discs (especially heavy objects) on the table. Doing so may damage the table mechanism.
- If the power to the player is turned on while you are receiving FM or AM radio broadcasts, noise may be heard in the radio broadcast. As a result, when not using the player, be sure the power switch is in the OFF position.
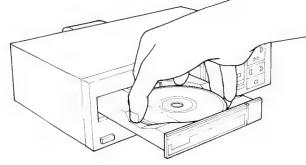 Also, if you experience noise during radio broadcasts when using an indoor antennna, try readjusting the antenna's position or direction.
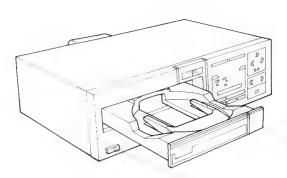
TO STOP PLAYBACK

When the play mode is allowed to continue to the end of the disc, playback will automatically stop. When you wish to stop playback before the end of a disc, follow the procedures listed below.
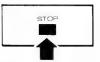
NOTE:
• Press the OPEN/CLOSE button to close the disc table. Do not attempt to force the disc table to close by pushing it; damage to the player may result.
• To prevent dust and dirt from catching on the objective lens inside the player, always return the disc table to the closed position when

When not removing the disc

Press the STOP button

The playback will stop, and the disc rotation will cease.

When removing the disc

[1] Press the OPEN/CLOSE button

The disc rotation will stop, and the disc table will open.

[2] Remove the disc

NOTE:
Return the disc to its case.

When playing another disc, return to step [4] of "TO START PLAYBACK." When you do not wish to play another disc, continue with the following steps:

[3] Press the OPEN/CLOSE button.

The disc table will retract into the player.

[4] Turn power OFF.

NUMERIC DISPLAY SELECTION

When power to the player is turned on, the numeric display is in the TIME mode (showing track number and time). By using the DISPLAY button, the following modes will appear successively:

① **TIME** ... Displays presently playing track number and the elapsed playing time of that track (this mode always appears when the power is turned on).

② **INDEX** ... Displays presently playing track and index numbers of that track.

③ **TOTAL** ... Displays total number of tracks on disc and total playing time (During programmed play, shows total number of programmed tracks, and total programmed playing time).

④ **REMAIN** ... Displays presently playing track number, and remaining time until end of disc. (During programmed play, shows remaining programmed time).
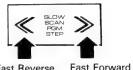
NOTE:
If the total number of tracks on a disc exceeds 20, programmed TOTAL and programmed REMAIN cannot be displayed during programmed play.

SLOW SCAN
(Fast Forward and Reverse)

Press after playback has begun. Slow scan will be performed during the time the button is held depressed. When the button is released, the player will return to the normal play mode.
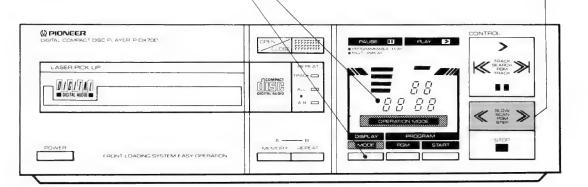
During slow scan, the sound can be heard at a reduced volume.

Fast Reverse   Fast Forward

NOTE:
* *The slow scan function operates in two stages. When the button is first held depressed, the disc will be forwarded (or reversed) at a rather low speed; after the button is held depressed continuously for several seconds, the scanning speed will be increased.*
* *When slow scan is performed when the player is in the pause mode, the scanning will occur without any sound being heard. Also, in this case the numeric display will not appear continuously, but will display its numeric intermittently.*
* *If slow scan is performed to the very end of a disc, the player will automatically enter the pause mode, and the track number display will indicate ' '.*
  If slow scan is performed in the reverse direction to the very beginning of a disc, the player will enter the pause mode at the beginning of the first track on the disc.

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TRACK SEARCH

When the ⏭ button is pressed, the player will search for the beginning of the next track on the disc and start playback there.

When the ⏮ button is pressed, the player will return to the beginning of the presently playing track, and start playback there.

If the button is pressed and released repeatedly, the player will skip rapidly over as many tracks as desired. At the same time, the numeric display will indicate the number of the track presently being searched.

By comparing the changing numeric display with the list of tracks accompanying the disc, you can operate the track search function to find any desired track on the disc.

When performing track search before beginning playback, press the PLAY button (>) after the desired track number is displayed.
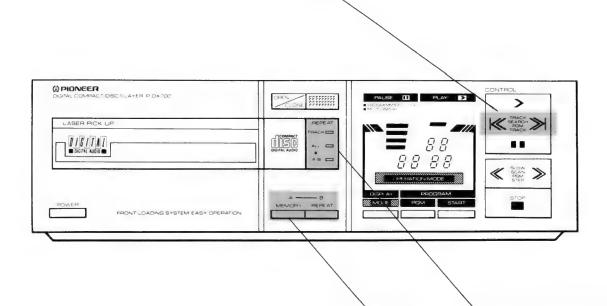
(Examples) While track 3 is playing:

- Press ⏭ 2 times—playback will start at the beginning of track 5.
- Press ⏮ 2 times—playback will start at the beginning of track 2.

NOTE:
- *If track search is initiated when the player is in the pause mode, the player will return to the pause mode at the beginning of the desired track.*
- *When performing search in the reverse direction, be sure to note the number of times the button must be pressed. When the ⏮ button is pressed once, the player will search for the start of the presently playing track; when pressed twice, the player will search for the beginning of the previous track.*
- *If the search operation is performed past the last track on the disc, the player will return to the first track on the disc.*
- *If track search is performed when the numeric display is in the TOTAL or REMAIN mode, the numeric display will show the TIME mode only during the actual search process.*
  When the search is completed, the display returns to its former mode.

REPEAT

Three kinds of repeat playback can be performed: single-track repeat, all-track repeat, or interval repeat (playback of the interval between any two selected points on a disc).

NOTE: Regarding repeat playback

- If the TRACK SEARCH or SLOW SCAN functions are performed during repeat playback, the repeat playback mode will be cancelled.
  The repeat playback mode will also be cancelled if the STOP button or OPEN/CLOSE button is pressed to stop playback.
- Single-track repeat and interval repeat will be cancelled if programmed playback (see page 18) is begun.
  If programmed playback is begun when the player is in the all-track repeat mode, the player will perform programmed repeat playback (see page 19).

SINGLE-TRACK AND ALL-TRACK REPEAT PLAYBACK

Begin playback of the track you wish to repeat.
(Use the TRACK SEARCH button if necessary to find the desired track).

⇩

(Single-track repeat)

Press the REPEAT button.
The currently playing track will be played repeatedly.
  (The TRACK REPEAT indicator will light).

⇩

(All-track repeat)

Press the REPEAT button.
All tracks on the disc will be played repeatedly.
  (The TRACK REPEAT indicator will go out, and the ALL REPEAT indicator will light.).

⇩

TO CANCEL THE REPEAT MODE

Press the REPEAT button.
The repeat mode will be cancelled, and the player will return to the normal playback mode.

INTERVAL REPEAT
(Repeat Playback of the Interval between 2 Points)

This function allows you to repeatedly play back the interval between any desired 2 points on the disc.

(To designate the starting point A)

At the point at which you wish repeat playback to begin:

Press the MEMORY: A button.
The A-B REPEAT indicator will flash.

⇩

(To designate the ending point B, and begin playback)

Allow playback to continue to the point at which you wish the repeat playback to end. At that point,

Press the REPEAT: B button.
The A-B REPEAT indicator will light steadily, and repeat playback will begin of the interval between points A and B.

⇩

TO CANCEL THE INTERVAL REPEAT MODE

Press either the MEMORY: A or REPEAT: B button.
The repeat mode will be cancelled, and the player will return to the normal playback mode.

NOTE:
After pressing the MEMORY (A) button, if the disc is reversed to a point earlier than point A and the REPEAT (B) button is pressed at that earlier point (point B is closer than point A to the inner side of the disc), repeat playback will be performed beginning at point B and ending at point A.

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PROGRAMMED PLAYBACK

This player may be programmed to play back tracks in any desired order, regardless of the order in which they are recorded on the disc. In this case, the PGM TRACK button (same as the TRACK SEARCH button) is used to designate track numbers, and the PGM STEP button (same as the SLOW SCAN button) is used to designate program steps.

DESIGNATING THE ORDER FOR PRO-GRAMMED PLAYBACK

Up to 10 steps can be designated for programmed playback.

Program designation may be performed when the player is in the play, pause, stop, or repeat modes. When a program is designated while the player is in the repeat mode, however, the repeat mode will be cancelled.

While designating the program order, the program (PGM) indicator will light, and the numeric display will indicate the track number and program step.

(Example): To program the 3rd, 6th, and 1st tracks to play back in that order

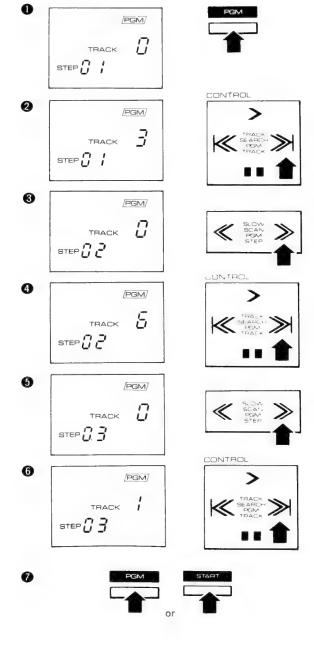(Assuming that the program memory has been previously cleared)

❶ **Press the PGM button**
(memory is ready for programming step 1).

❷ **Press the ≫ button 3 times**
(track 3 is entered in step 1).

❸ **Press the ≫ button**
(memory is ready for programming step 2).

❹ **Press the ≫ button 6 times**
(track 6 is entered in step 2).

❺ **Press the ≫ button**
(memory is ready for programming step 3).

❻ **Press the ≫ button 1 time**
(track 1 is entered in step 3).

❼ **Press either the PGM button or START button.**
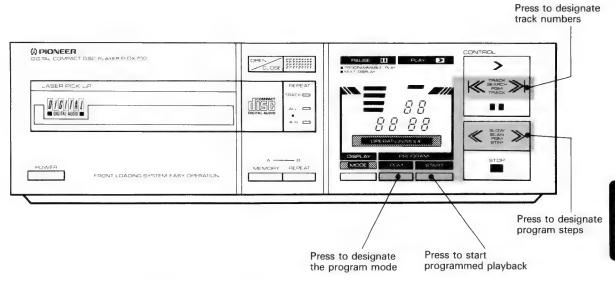When PGM is pressed, the programming operation is completed.
(The PGM indicator goes out).
When START is pressed, the programmed playback starts immediately.

The programmed memory will be preserved until the power switch is turned OFF, or until cleared by other button operations.

Press to designate
track numbers

CONTROL

Press to designate
program steps

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Press to designate
the program mode

Press to start
programmed playback

STARTING AND STOPPING PROGRAM-MED PLAYBACK

To begin the playback of programmed selections, press the START button. The PGM indicator will light, and tracks will be played back in the programmed order.

NOTE:
- *When programmed playback is started from the pause mode, the player will enter the pause mode at the beginning of the track designated in step 1.*
- *If the total programmed time exceeds 99 minutes and 59 seconds, the TOTAL and REMAIN displays will show, the overflow display.*

When programmed playback is completed, the player will enter the stop mode. During programmed playback, if buttons other than the PAUSE, DISPLAY or PGM are pressed, the programmed playback mode will be cleared, and the player will be switched to the designated mode.

PROGRAMMED REPEAT PLAYBACK

During all-track repeat playback (the ALL REPEAT indicator lights), if programmed playback is begun, the player will enter the program repeat mode, and the programmed playback will be repeated continuously.

[TO CLEAR THE PROGRAMMED MEMORY]

When track number 0 is designated, all of the program from that step on will be cleared.
(Example) To clear the entire programmed contents:

① **Press PGM button.**
Step 1 will be displayed.

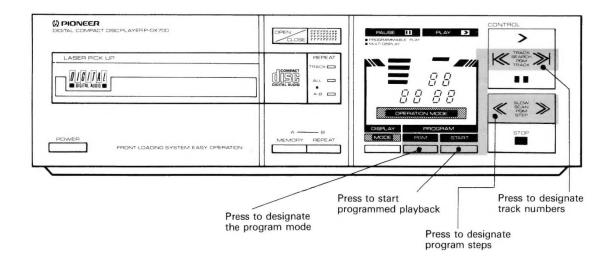
② **Press ⫷ , to designate track 0.**

③ **Press PGM button.**

Press to designate
the program mode

Press to start
programmed playback

Press to designate
program steps

Press to designate
track numbers

CONFIRMING OR CHANGING THE PROGRAMMED MEMORY

After pressing the PGM button, the PGM STEP button can be used to call up desired program steps, thus allowing you to confirm or change the programmed tracks.

To change a programmed track, use the PGM TRACK button to increase (≫) or decrease (≪) the track number displayed.

While the player is in the programmed playback mode, program confirmation may be performed, but program changes may not.
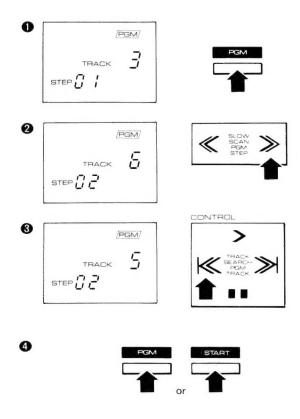
(Example of Program Change)

When the 3rd, 6th, and 1st tracks have been programmed in that order, perform the following procedures to change the contents of the 2nd step from the 6th track to the 5th track:

❶ **Press the PGM button.**
(the track number for step 1 will be displayed).

❷ **Press ≫ button.**
(the track number for step 2 will be displayed).

❸ **Press ≪ button 1 time.**
(the track number for step 2 will change from 6 to 5).

❹ **Press either PGM or START button.**
When PGM is pressed, the program change will be completed; the programmed contents have been revised to the 3rd, 5th, and 1st tracks.
When START is pressed, programmed playback will begin immediately in accordance with the revised program.

TROUBLESHOOTING

Before concluding that the player is out of order, please refer to this troubleshooting guide to make sure that there is not a simple remedy for the problem. Most performance problems are caused by set-up errors, bad connections to other components, or malfunctions of other components. Find the symptom from the chart below, and try the suggested remedies.

Symptom	Cause	Remedy
Disc table does not open when OPEN/CLOSE button is pressed.	• Power plug is disconnected from outlet. • Power switch is not turned on.	• Be sure components are plugged in properly. • Press the power switch to supply power to player.
When playback is attempted, player immediately stops, and disc table opens.	• Disc is loaded upside down.	• Load disc correctly with label side up.
No sound is produced.	• Connecting cords are not connected properly. • Amplifier is not operated properly. • RCA-plugs or amplifier input terminals are dirty. • Player is in pause mode.	• Connect cords securely. • Check amplifier settings and volume control. • Clean plugs and/or terminals. • Press the PLAY button.
Sound is distorted.	• Connections are incorrect. • RCA-plugs or amplifier input terminals are dirty.	• Check the connections to the amplifier. Do not connect to the PHONO input terminals of the amplifier. • Clean plugs and/or terminals.
When playing a particular disc, loud noise is produced, or playback stops.	• Disc is severely scratched or warped. • Disc is extremely dirty.	• Use a different disc. • Clean the disc.

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SPECIFICATIONS

1. General

System .... Compact Disc digital audio system
Disc .... Diameter: 120 mm
Thickness: 1.2 mm
Max. playing time: over 60 minutes (stereo)
Linear speed: 1.2 to 1.4 m/sec
Direction of rotation (signal encoded side):
Counterclockwise
Signal format .... Sampling frequency: 44.1 kHz
Quantization bits: 16 bits, linear
Transmission bit rate: 4.3218 Mbits/sec
Modulation system: EFM
Error correction system: CIRC
Pre-emphasis: 50/15 μ sec
Laser .... Semiconductor laser, wavelength 780 nm
Power requirements
HEM, HB models 220/240 V AC (switchable),
50/60 Hz
S, S/G models .... 110/120/220/240 V AC
(switchable), 50/60 Hz
KU model .... 120 V AC, 60 Hz
Power consumption
HEM, HB, KU models 28W
S, S/G models 21W
Operating temperature .... +5°C to 35°C
Weight(without packaging) .... 4.6 kg (10.2 lbs)
Dimensions .... 320 (W) x 260 (D) x 98 (H) mm
12-3/5 (W) x 10-1/4 (D) x 3-9/10 (H) in

2. Audio Characteristics

Frequency response .... 5 Hz to 20 kHz
S/N(signal-to-noise ratio) .... 95 dB (1 kHz)
Dynamic range .... 93 dB (1 kHz)
Channel separation .... 93 dB (1 kHz)
Wow and Flutter .... Quartz oscillator accuracy
Total harmonic distortion ...... 0.0045 % (1 kHz, 0 dB)
Output voltage .... 200 mVrms (1 kHz, −20 dB)
Channels .... 2 channels (stereo)

3. Functions
- Play
- Pause
- 2 step slow scan
- Track search
- Interval (A-B) repeat
- Single-track repeat
- All-track repeat
- Programmed playback
- Programmed repeat playback

4. Accessories
- Audio connecting cord 1
- Operating Instructions 1

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