

Operating Instructions



MULTI-PLAY COMPACT DISC PLAYER

PD-M550
PD-M455
PD-M453
PD-M450



PD-M550



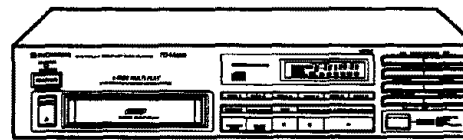
PD-M455



PD-M453



PD-M450



Thank you for buying this Pioneer product. Please read through these operating instructions so 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 some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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

IMPORTANT NOTICE

[For U.S. 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 it in a secure area. This is for your security.

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

LINE VOLTAGE SELECTOR SWITCH

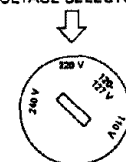
Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with this switch.

Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.

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:

- Use 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



PIONEER
The Art of Entertainment

IMPORTANT 1



The lightning flash with arrowhead, 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.



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 to 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.)

FOR USE IN THE UNITED KINGDOM

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.

Do not connect either wire to the earth terminal of a three pin plug.

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

SAFETY INSTRUCTIONS

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. Pay 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, benzene, 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 a Pioneer authorized service center or qualified service personnel when:

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

CART — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



NEC NATIONAL ELECTRIC CODE

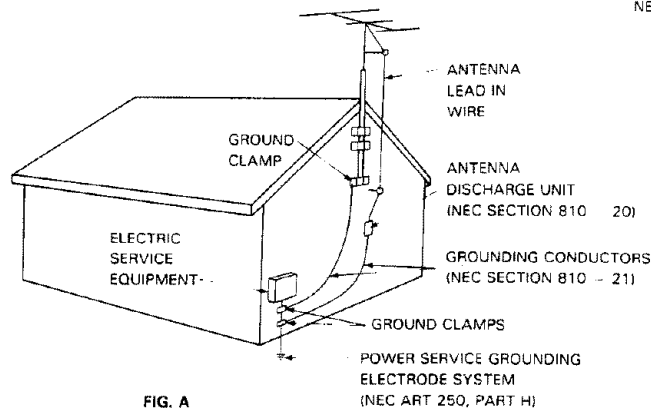


FIG. A

[FOR EUROPEAN AND U.K. MODELS]

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

The following caution label appear on your player.

Location: rear of the player



[FOR U.S. MODEL]

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

INFORMATION TO USER [FOR U.S. MODEL]

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 this equipment with respect to the receiver
- move this equipment away from the receiver
- plug this 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 Commission 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.

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

[For Canadian model]

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

POWER-CORD CAUTION

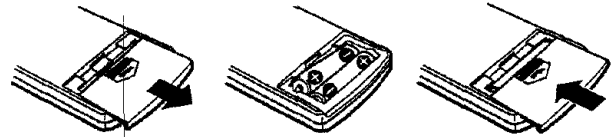
Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

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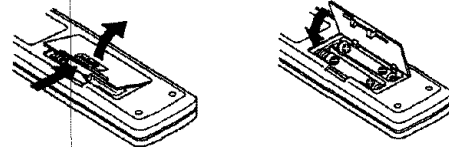
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PUT BATTERIES INTO THE REMOTE CONTROL UNIT (PD-M550/PD-M455/PD-M453 only)

PD-M550



PD-M455/PD-M453



Open the lid of the battery compartment on the rear of the remote control unit, and insert the batteries, taking care to align the (+) and (-) polarities correctly.

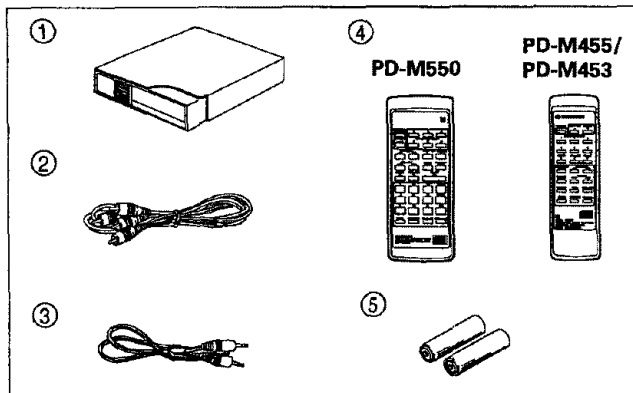
NOTE:

- In order to prevent battery leakage, remove the batteries when not using the remote control unit for an extended period (one month or more). In the event of battery leakage, carefully wipe away any battery fluid inside the compartment, and replace the batteries with new ones.
- Do not allow books or other objects to rest on top of the remote control unit, since the buttons may be depressed, causing faster exhaustion of the batteries.

Incorrect use of batteries may cause leakage or rupture. Always be sure to follow these guidelines:

- Always insert batteries into the battery compartment correctly matching the positive (+) and negative (-) polarities, as shown by the display inside the compartment.
- Never mix new and used batteries.
- Batteries of the same size may have different voltages, depending on brand. Do not mix different brands of batteries.

CONFIRM SUPPLIED ACCESSORIES



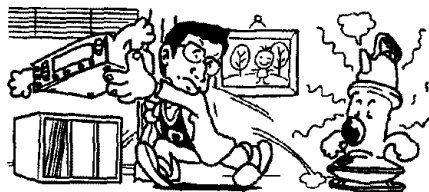
- ① 6-Compact Disc Magazine x 1
(Called 6-disc magazine in the explanatory text.)
NOTE:
The supplied 6-disc magazine is for 12 cm discs only.
- ② Output cord x 1
- ③ Control cord x 1
PD-M550/PD-M455/PD-M453
(U.S. and Canadian models only; Not available with models for military zones (multi-voltage types))
PD-M450 (all models)
- ④ Remote control unit x 1 (PD-M550/PD-M455/PD-M453 only)
- ⑤ AAA/R03 dry cell batteries x 2 (PD-M550/PD-M455/PD-M453 only)

CAUTIONS REGARDING HANDLING

Location

Install the player in a well ventilated location where it will not be exposed to high temperature or humidity.

Do not install the player in a location which is exposed to direct rays of the sun, or near stoves or radiators. Excessive heat can adversely affect the cabinet and internal components. Also, installation of the player in a damp or dusty environment may result in malfunction or accident. (Also avoid installation near cookers etc., where the player may be exposed to smoke from oil, steam or heat.)

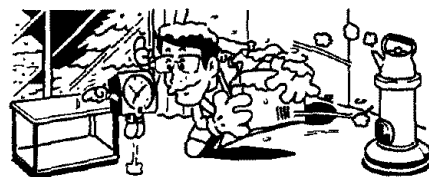


Precautions regarding installation

- Placing and using the compact disc player for long periods on heat-generating sources such as amplifiers will affect performance. Avoid placing the player on heat-generating sources.
- Install this compact disc player as far as possible from tuners and TV sets. A compact disc player installed in close proximity to such equipment, may cause noise or degradation of the picture.
- Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off power to the compact disc player.
- Please place this unit on a level surface.

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 be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.



Cleaning discs

- The presence of fingerprints or smudges on the surface of the disc will not directly affect the recorded signals, but depending on the degree of contamination, the brightness of the light reflected from the signal surfaces may be reduced, causing degradation of sound quality. Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer periphery.



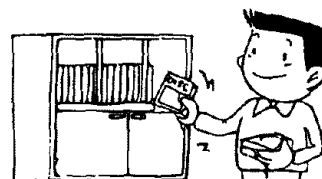
- If a disc becomes very dirty, dip a soft cloth in water, and after wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft, dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Also, never clean discs with benzene, thinner, or other volatile solvents, since damage to the disc surface may result.



Storing discs

(Storing without using the 6-disc magazine)

- Discs are made of the same kinds of plastic used for conventional analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with high heat or 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.



CD lens cleaner

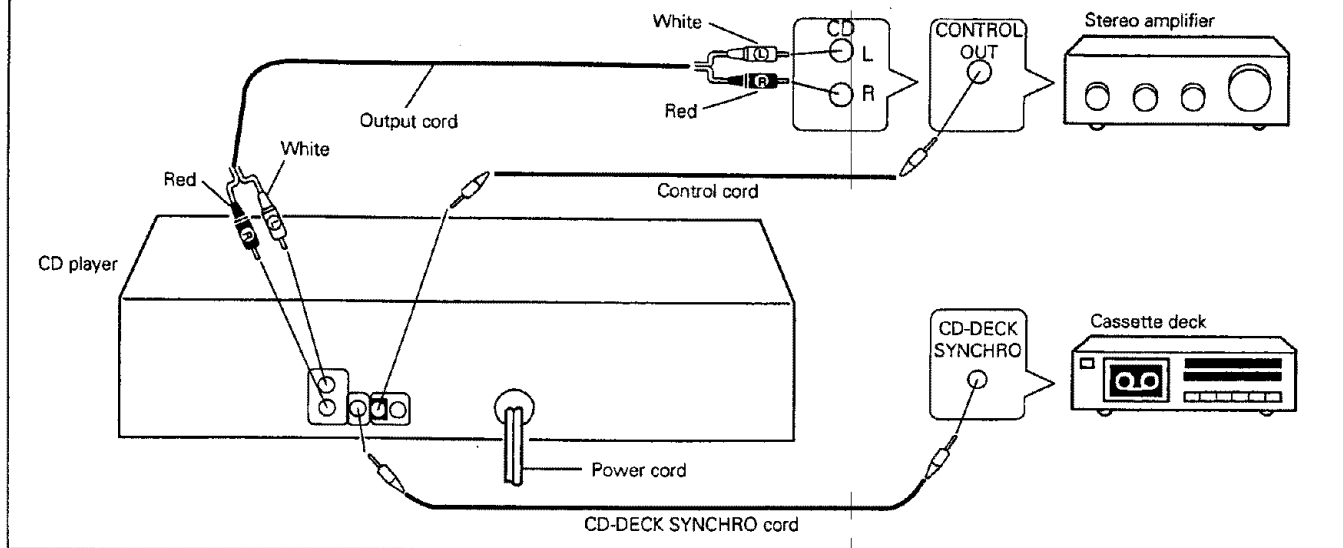
The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, ask your nearest PIONEER authorized service center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

Cleaning the player and the magazine

To clean the PLAYER and the MAGAZINE wipe with a soft, dry cloth. For stubborn dirt, wet a soft cloth with a mild detergent solution, wring well, then wipe off the dirt. Also use a dry cloth to wipe the surface dry. Do not use volatile liquids such as benzene and thinner which are harmful to the unit.

CONNECTIONS

- Make sure that all of the components are turned off before making connections.



Making connections

- 1 Connect the OUTPUT jacks of this unit to the input jacks (CD or AUX) of the amplifier. Make sure that the white plugs are connected to the left (L) jacks and the red plugs to the right (R) jacks.
- Be sure not to connect this unit to the amplifier's PHONO jacks, as sound will be distorted and normal playback will not be possible.
- 2 Connect the power cord to a household AC wall outlet or an AC outlet on your amplifier.
- Make sure plugs are inserted fully into the jacks and wall outlet.

CD-Deck synchro function

If you have a Pioneer cassette deck provided with the CD-Deck synchro function, connect the CD-DECK SYNCHRO jacks of the CD player and cassette deck. With this function, synchro recording can be carried out between player and deck.

- For details on connections and operation, refer to the instruction manual supplied with the cassette deck.
- The CD-DECK SYNCHRO cord is not supplied with the CD player.

System remote control with a Pioneer stereo amplifier that has the SR mark

(Available with the PD-M450 and U.S. and Canadian models of the PD-M550/PD-M455/PD-M453 only: Not available with models for military zones (multi-voltage types))

When a Pioneer stereo amplifier bearing the SR mark is used, connect the CONTROL IN jack on the rear panel of the CD player to the CONTROL OUT jack of the amplifier. This will enable the CD player to be controlled using the remote control unit supplied with the stereo amplifier. If you do not plan to use this feature, it is not necessary to connect CONTROL IN/OUT jacks.

- The control cord is supplied with the CD player.
- The remote control unit supplied with the amplifier can be used to control Play, Stop, Pause, Track/Disc Search and Disc Change operations.
- For instructions regarding connections and operation, refer to the operating instruction manual provided with your stereo amplifier.

NOTES:

- When a control cord is connected to the player's CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the amplifier.
- Be sure to connect both of the control cord's plugs securely to the CONTROL IN and CONTROL OUT terminals. Do not connect only one end of the cable.
- Be sure to turn off the power of the amplifier when connecting the power cord and output cord.

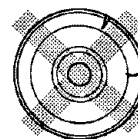
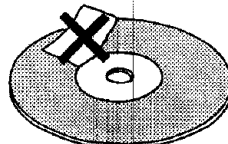
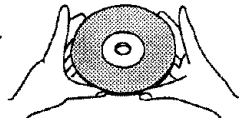
BEFORE OPERATING THE PLAYER

CARE OF DISCS

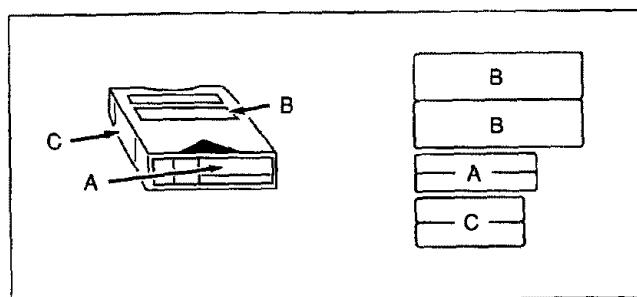
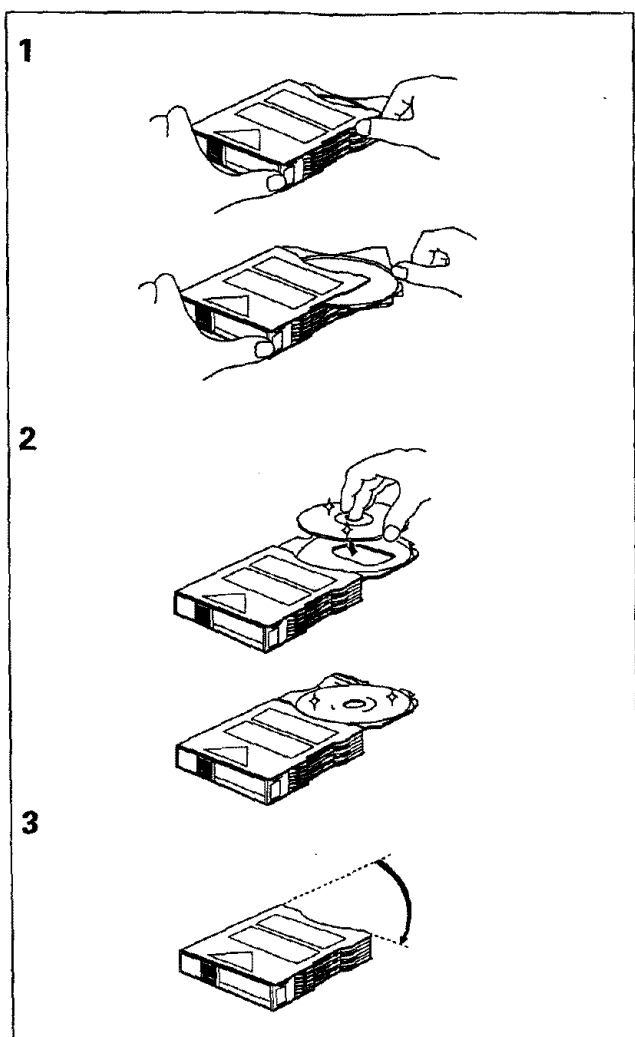
- With this player, use discs which display the mark shown below. (Optical audio digital discs.)
- When holding discs, do not touch their signal surfaces. Hold by the edges, or by one edge and the center hole.

- Do not affix gummed labels or tape to the label surfaces. Also, do not scratch or damage the label.
- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.

COMPACT
disc
DIGITAL AUDIO



BEFORE OPERATING THE PLAYER



For U.S. customers only

You may purchase additional Pioneer six-compact-disc magazines from your dealer. If however, they are not available at your dealer in the United States, you may order from:

PIONEER ELECTRONICS SERVICE, INC.
2265 East 220th Street
P.O. Box 1760, Long Beach
CA. 90801-1760
U.S.A.
Phone #(800)421-1404

NOTE:

- In order to play an 8-cm CD you will need a special Multi-Play Magazine (JD-M108, JD-M308) which is sold separately. Be sure to read thoroughly the Operating Instructions before using it.
- 8-cm CD Adaptors
It is possible that even an adaptor which meets recommended standard CD specifications will not be usable with the CD player. It is recommended that the special Multi-Play Magazine (JD-M108, JD-M308) be used.
- Never load an 8-cm CD or its adaptor into a standard 12-cm magazine. This may seriously damage the CD player.
- Do not insert only an 8-cm disc and adaptor into the supplied magazines.

INSERT DISCS INTO THE 6-DISC MAGAZINE

Insert any discs which you may have into the supplied magazine. Up to six discs may be inserted. The numbering of the discs begins with 1 at the topmost tray, and then increases in order from 2 to 6 for the lower trays. The magazine has a window through which the pulled-out disc tray can be checked. Even during playback, the number of the disc being played back can be checked through this window.

- 1 Pull out only one disc tray.
- 2 Position discs with the label side downward.
- 3 Put the disc tray back as it was originally.
- 4 Insert other discs by repeating steps 1 to 3.

CAUTION:

- Please make sure to only pull out one disc tray at a time. (when a disc tray has been pulled out, do not pull out other disc trays.)
- If discs are inserted label side upward, it will not be possible for them to be played. Please make sure to insert them with the label side downward.
- Objects other than discs (song cards, explanations of disc contents, etc.), must never be inserted into the disc trays.
- Do not touch the playing surface of discs (iridescent side) with hands or fingers.

AFFIXING LABELS TO THE MAGAZINE

- Always attach the labels provided in the designated locations. Correct operation may not be possible if labels or tape are attached in other locations.
- The following are convenient ways of using labels:
A: For titles
B: For disc names
C: For classification
- Do not attach labels on top of other labels.

Additional magazines identical to the one supplied are available as options (*JD-M100, JD-M200, JD-M300, JD-M108, JD-M308).

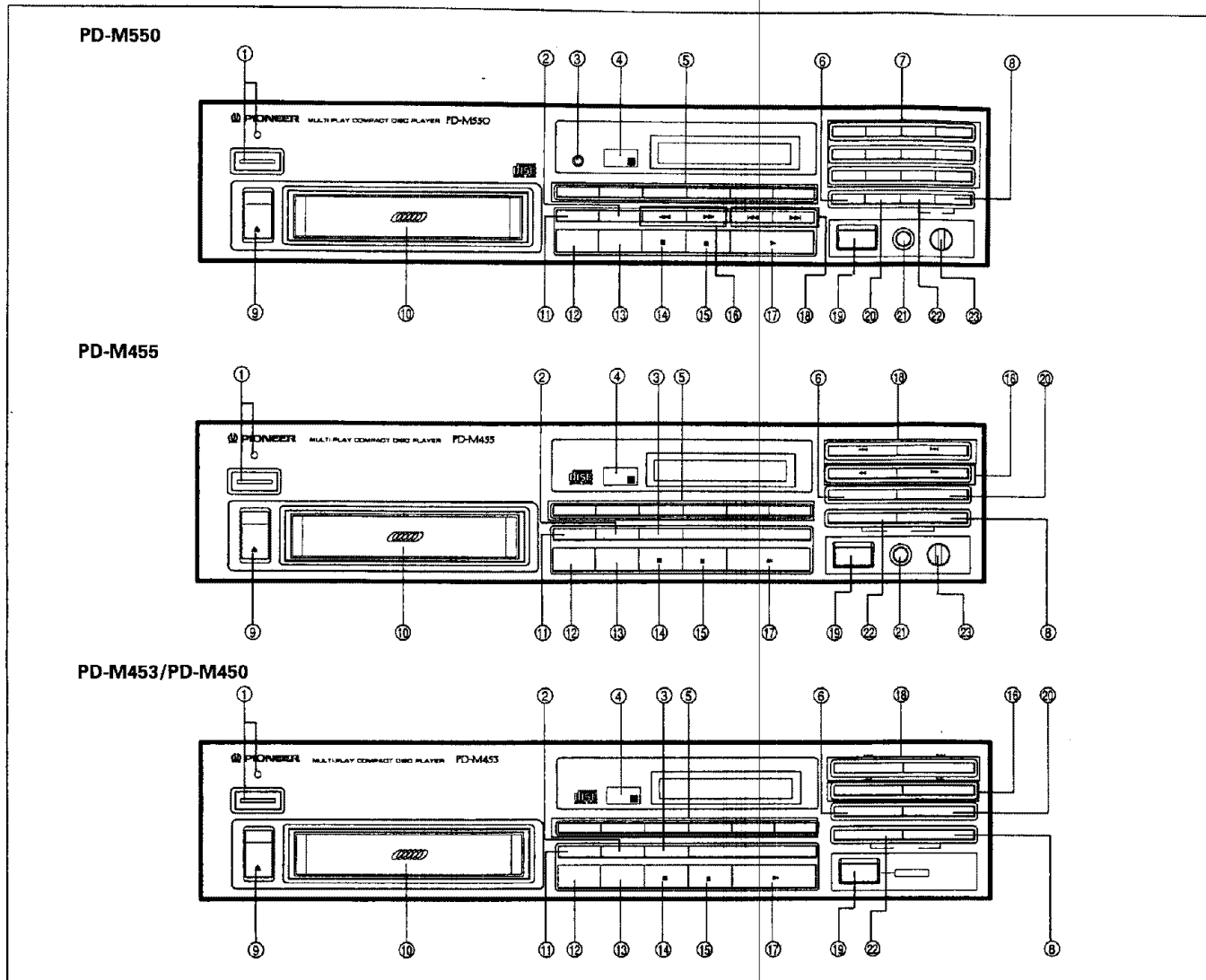
Please use them to make your own disc library, with separate magazines for each artist or genre.

- * JD-M100/JD-M200/JD-M300 Magazine for 12-cm discs
- JD-M108/JD-M308 Magazine for 8-cm discs

NOTE:

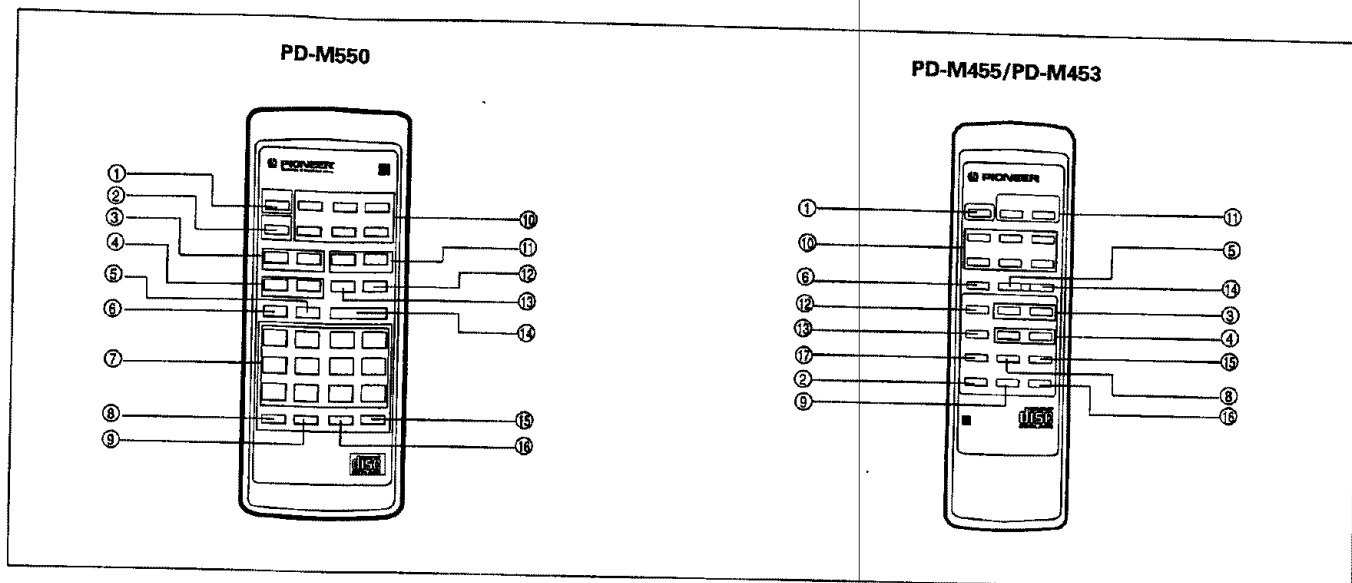
Do not load 8-cm discs into the magazine for 12-cm discs.

NAMES AND FUNCTIONS OF PARTS



FRONT PANEL

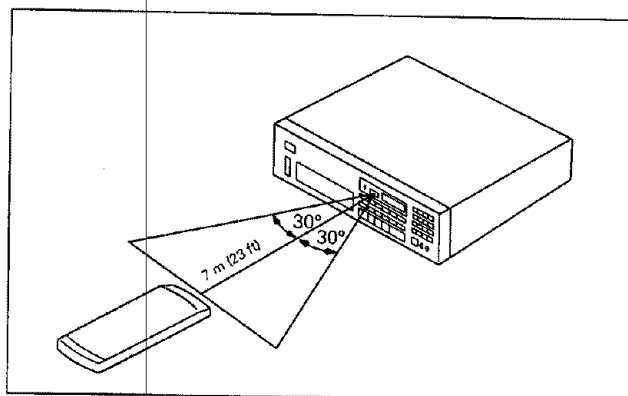
- | | |
|---|--|
| <p>① POWER STANDBY/ON switch and STANDBY indicator</p> <p>② AUTO FADER button</p> <p>③ TIME button</p> <p>④ Remote sensor (PD-M550/PD-M455/PD-M453 only)
 Receives the signal from the remote control unit.
 • The PD-M450 is not equipped with the remote sensor.</p> <p>⑤ Disc number buttons (DISC 1 - DISC 6)</p> <p>⑥ PGM (program) button</p> <p>⑦ TRACK NUMBER/Digit buttons (1-10, +10, ≥20) (PD-M550 only)</p> <p>⑧ TIME FADE EDIT button</p> <p>⑨ EJECT button (▲)</p> <p>⑩ Magazine insertion slot</p> | <p>⑪ REPEAT button</p> <p>⑫ RANDOM PLAY button</p> <p>⑬ HI-LITE SCAN button</p> <p>⑭ Stop button (■)</p> <p>⑮ Pause button ()</p> <p>⑯ Manual search buttons (◀◀/▶▶)</p> <p>⑰ Play button (▶)</p> <p>⑱ Track search buttons (◀◀/▶▶)</p> <p>⑲ ADLC (Automatic Digital Level Controller) button</p> <p>⑳ DELETE button</p> <p>㉑ Headphones jack (PHONES) (PD-M550/PD-M455 only)</p> <p>㉒ COMPU PGM EDIT button</p> <p>㉓ Headphones volume (PHONES LEVEL) (PD-M550/PD-M455 only)</p> |
|---|--|



REMOTE CONTROL UNIT (PD-M550/PD-M455/PD-M453 only)

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.

- ① POWER button
- ② ADLC (Automatic Digital Level Controller) button
- ③ MANUAL search buttons (◀◀ / ▶▶)
- ④ TRACK search buttons (◀◀ / ▶▶)
- ⑤ PAUSE button (||)
- ⑥ STOP button (■)
- ⑦ Track number/Digit buttons (1-10, +10, ≥ 20) (PD-M550 only)
- ⑧ PGM (program) button
- ⑨ CHECK button
- ⑩ DISC NUMBER buttons (1 - 6)
- ⑪ OUTPUT LEVEL buttons (+/−)
- ⑫ RANDOM PLAY button
- ⑬ HI-LITE SCAN button
- ⑭ PLAY button (▶)
- ⑮ DELETE button
- ⑯ CLEAR button
- ⑰ FADER button (PD-M455/PD-M453 only)



REMOTE CONTROL OPERATIONS (PD-M550/PD-M455/PD-M453 only)

When operating the remote control unit, point the unit's infrared signal transmitter at the remote control receiver (REMOTE SENSOR) on the front panel of the player. The remote control unit can be used within a range of about 7 meters (23 feet) from the remote sensor, and within angles of up to about 30 degrees.

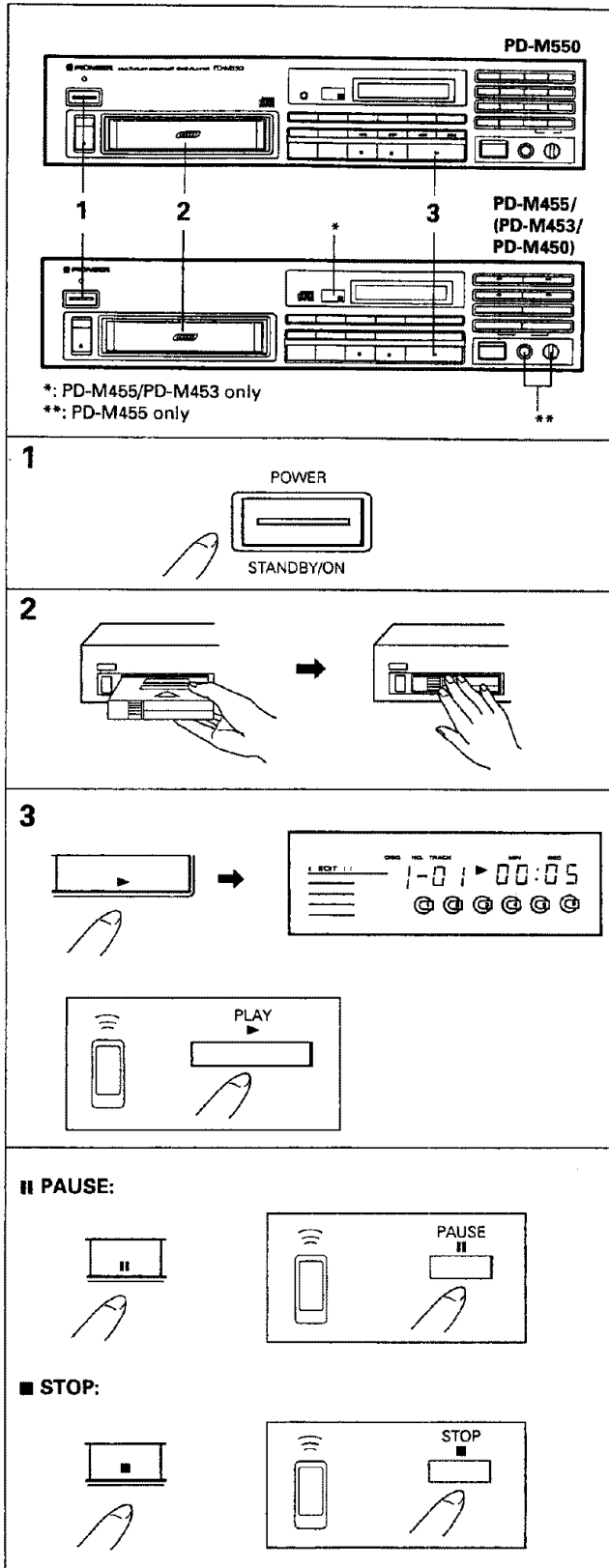
NOTE:

If the remote control sensor window is in a position where it receives strong light such as sunlight or fluorescent light, control may not be possible.

Notes for PD-M450:

Operate the PD-M450 using the remote control unit which accompanies the amplifier. (See page 6.)

BASIC OPERATION



Operations indicated by the [] mark are performed with the remote control unit. (PD-M550/PD-M455/PD-M453 only)

To play a compact disc

- 1 Turn on the power to the player.
- 2 Insert a magazine, pushing it in until a click sound is heard.
 - Insert the discs to be played into the magazine beforehand. (Refer to "BEFORE OPERATING THE PLAYER" on page 6.)
 - When the power is turned off, inserting a magazine automatically turns on the power (Automatic Power On function).
- 3 Press ► to start playback.

To pause playback temporarily:

Press ||. The || indicator lights and playback is paused at that point. Pressing || again or ► resumes playback from the position where pause mode was entered.

To stop playback:

Press ■. The player returns to the beginning of the first track on the disc at which playback was stopped. If ■ is pressed twice, the player returns to the beginning of the first track on the first disc and enters stop mode.

NOTE:

When the power is turned off while a magazine is in the player, the player memorizes which disc was played just before the power was turned off. Thus, when the power is next turned on, pressing the play button starts playback from the first track on the memorized disc.

To stop playback and take out the magazine

Press EJECT, remove the magazine, and then press POWER to turn off the power.

Even when the power is turned off, the magazine will be ejected by pressing EJECT. (Power Down Eject)

NOTE:

Demo mode allows you to see variation of the display. To enter the demo mode, press POWER and then ◀ within 1 second without inserting the magazine. To exit demo mode, insert the magazine or press any button.

Cautions regarding handling of magazines

- When inserting a magazine into the player, make sure that the direction of insertion is correct.
- After use, store in the case provided. Do not place in locations subjected to high temperatures or exposed to direct sunlight.
- Do not take magazines apart.
- Be careful not to drop, or hit magazines against things. Also do not apply strong force to trays which have been withdrawn.
- Application of benzene, thinner, insecticide or other volatile liquids to a magazine may damage the surface, so keep magazines away from such substances.

Continue

Timer playback

By using a commercially available audio timer, it is possible to initiate playback at any time automatically.

1. Insert a magazine into the magazine slot.
2. Set the time at which you wish playback to begin. The timer will supply power to both the amplifier and the player at the preset time, turning all the components on and initiating the playback mode. Playback starts from the first track on the first disc.

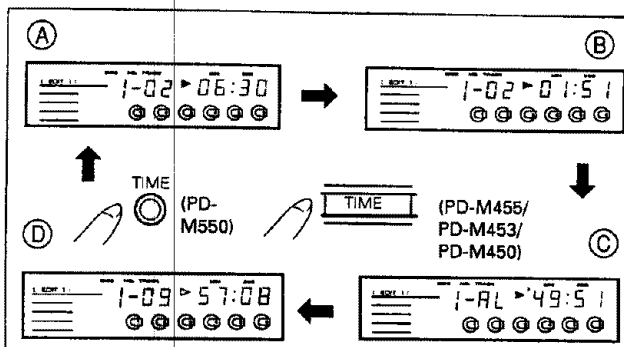
Caution:

- Do not unplug the power cord or do not turn off the power with an audio timer during playback, as this could result in damage to the disc.
- If a power failure occurs while the power is turned off (standby mode), the power is automatically turned on with timer playback function when the power is supplied. THEREFORE, DISCONNECT THE AC POWER CORD WHEN THE PLAYER IS NOT USED FOR A LONG PERIOD OF TIME.

Time display

During playback, pressing the TIME button changes the time display in the following sequence: (A) Time (elapsed playback time of the track being played) → (B) Remain (remaining playback time of the track being played) → (C) AL Remain (remaining playback time from the playing point to the end of the disc) → (D) Total (total playback time of the disc).

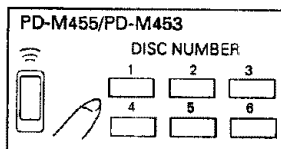
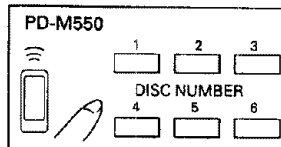
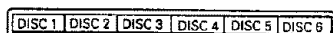
- With track No. 24 or more, the Remain time (B) cannot be displayed.
- During program playback, delete program playback, random playback or delete random playback, AL Remain time (C) cannot be displayed.
- During Program playback, the number of program steps can be displayed with the Total setting (D).



VARIOUS OPERATIONS

Disc search - To search for a particular disc

During playback or stop mode



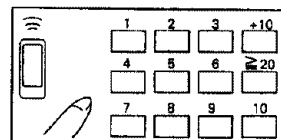
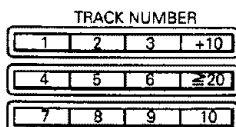
When DISC NUMBER (DISC 1 - DISC 6) is pressed, the player searches for the specified disc and playback starts from the beginning of that disc.

NOTES:

- If "disc" appears on the display, you have pressed the disc number of a tray which does not contain a disc.
- During program playback, Disc Search cannot be carried out.

Track search - To search for a particular track

During playback or stop mode (PD-M550 only)



To search for track No. from 1 to 10, simply press the corresponding digit buttons (1-10). To search for track No. 11 or above, use +10. To search for track No. 20 or above, use ≥20.

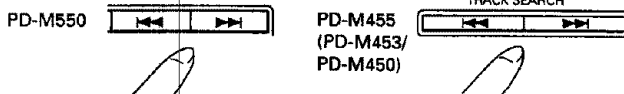
- Example**
- To enter track No. 17: +10, 7
 - To enter track No. 23: ≥20, 2, 3
 - To enter track No. 30: ≥20, 3, 10

- When entering 20 or above, 10 functions as 0.
- When +10 or ≥20 is pressed, the digit button to be next entered should be pressed within 5 seconds.

NOTE:

During program playback, the track search can not be operated with the TRACK NUMBER button.

During playback or pause mode



When ►► is pressed once, playback advances to the beginning of the next track. When this button is kept pressed, playback advances to successive tracks on the disc.

When ◀◀ is pressed once, playback returns to the beginning of the track being played. When this button is kept pressed, playback returns to earlier tracks on the disc.

- For PD-M550/PD-M455/PD-M453, the ◀◀ or ►► button on the remote control unit can be used.

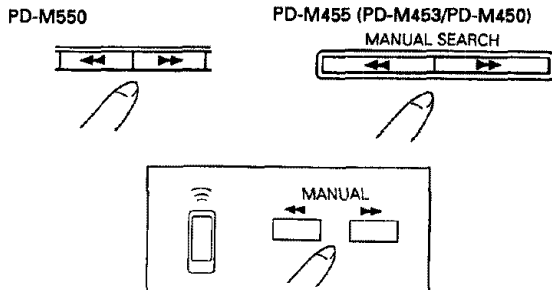
NOTES:

- During normal playback, Track Search can be carried out on one disc only.
- During program playback, the ◀◀ or ►► button can be used to select the programmed track.

Continue

Manual search - To search for a particular passage

During playback or pause mode



While ►► is kept pressed, playback rapidly advances toward the end of the disc. When playback reaches the end of the disc, the player enters pause mode and "End" is displayed. While ◀◀ is kept pressed, playback rapidly reverses toward the beginning of the disc.

When the desired passage is reached, release ►► or ◀◀. The player enters original mode (playback or pause) where ►► or ◀◀ is released.

NOTES:

- During normal playback, Manual Search can be carried out on one disc only.
- During program playback, Manual Search can be carried out in one program step only.

To repeat playback (repeat play):

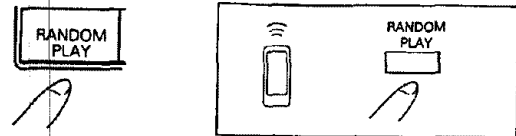


To repeatedly play the displayed track, press REPEAT once. The REPEAT 1 indicator lights. The REPEAT button can be pressed in any playback mode.

To repeatedly play all tracks on all of the discs in normal playback mode or in the specified playback mode (Program playback, Delete program playback or Random playback), press REPEAT twice. The REPEAT indicator lights.

- To exit repeat mode, press REPEAT so that the REPEAT 1 or REPEAT indicator goes off.

Random playback - To play all tracks in random order

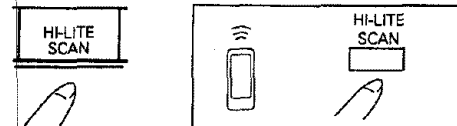


Press RANDOM PLAY. The RANDOM indicator lights and all tracks on all discs are played in a random order.

To play tracks other than the deleted tracks in a random order, press RANDOM PLAY after carrying out the Delete Program procedure. See "Delete Program Playback" on page 16.

Magazine Hi-Lite Scan

During stop mode



When HI-LITE SCAN is pressed once during stop mode, playback starts from a point 1 minute after the beginning of the first track, and the first track of each disc is played for about 10 seconds. The DISC SCAN indicator blinks during Disc Scan mode. After the first tracks of all discs are scanned, the player enters stop mode.

When HI-LITE SCAN is pressed twice during stop mode, playback starts from a point 1 minute after the beginning of the track, and each track is played for about 10 seconds. The SCAN indicator blinks during Track Scan mode. After all tracks of all discs are scanned, the player enters stop mode.

To exit Magazine Hi-Lite Scan mode

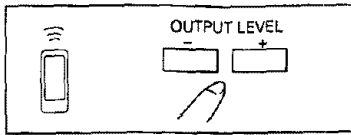
Press ■, ►, Disc number (DISC1 - DISC6) or TRACK NUMBER (1 - 10, +10, ≥ 20). When ► is pressed, normal playback starts from the current point. When DISC1-DISC 6 or TRACK NUMBER (PD-M550 only) is pressed, the selected disc or track is played from the beginning.

NOTES:

- Hi-Lite Scan can be carried out from the desired elapsed time of the track. During playback, press HI-LITE SCAN at the point you want to start Hi-Lite Scan playback. The player memorizes the minute and second of the point and Track Scan playback is carried out from the memorized minute and second on each track.
- Each time HI-LITE SCAN is pressed, the mode switches between Disc Scan and Track Scan.
- Programming of only desired tracks is possible during Track Scan playback. See "Direct program" on page 14.
- During Track Scan playback, you can skip to the desired track with ◀◀ or ►►.
- When REPEAT is pressed, Hi-Lite Scan playback will be repeated.
- When playback time of a track is less than one minute or is shorter than memorized time, Hi-Lite Scan playback is carried out from the beginning of the track for about 10 seconds. When playback time of a track is less than 10 seconds, the track is played from the beginning to the end.

Continue

Adjusting the sound volume (PD-M550/PD-M455/PD-M453 only)



Press OUTPUT LEVEL “-” or “+” to adjust the output level. The output level can be adjusted between 0 dB and -25 dB in steps of 1 dB.

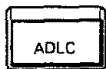
- The output level at the OUTPUT jacks and PHONES jack will be adjusted simultaneously.

ADLC (Automatic Digital Level Controller)

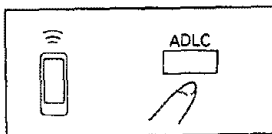
When the difference of recording level between discs is noticeable, the volume level should be adjusted for each disc, especially during program playback or random playback whose tracks are selected between 2 discs or more. In such cases, pressing ADLC automatically sets the output level to the proper level. When ADLC is turned on, the ADLC indicator lights.

- To turn off ADLC, press ADLC so that the ADLC indicator goes off.
- With some selections, sound becomes unnatural. In such cases, turn off ADLC.

PD-M550/PD-M455



PD-M450/PD-M453



NOTES (PD-M550/PD-M455/PD-M453 only):

- The setting of the OUTPUT LEVEL buttons are canceled when ADLC is turned on.
- When ADLC is turned on, the OUTPUT LEVEL buttons cannot be operated.

AC power cord connection and functions

Some functions cannot be carried out depending on the connection of AC power cord.

Function	When the AC power cord is connected to the unswitched outlet of an amplifier or wall outlet.	When the AC power cord is connected to the switched outlet of an amplifier or audio timer.
Timer playback	No	Yes
Program memory	Yes	No
Delete program memory	Yes	No
Output level memory	Yes	No

For details, refer to the description of each function of this Operating Instructions.

TO PLAY ONLY DESIRED TRACKS/DISCS

PD-M550

PD-M455 (PD-M453/
PD-M450)

*: PD-M455/PD-M453 only
**: PD-M455 only

1

PD-M550

PD-M455(PD-M453/PD-M450)

2

3

PD-M550

PD-M455(PD-M453/PD-M450)

- For PD-M550 or PD-M455, the PGM and <<>> buttons on the remote control unit can also be used.

5

Program playback - To program tracks/discs in desired order

- 1 During stop mode, press the Program button.**
The PROGRAM indicator lights.
- 2 Press the Disc number button which contains the track to be programmed.**
To program entire discs, enter the desired disc numbers with the Disc number buttons and go to step 4.
 - When the Disc number button is pressed, "AL" (all tracks) appears on the display.
- 3 Press <<< or >>> button so that the desired track No. appears on the display and press the Program button.**
For PD-M550 only:
Instead of the <<< or >>> button, the TRACK NUMBER/Digit button can be used.
Enter the desired track No. with the TRACK NUMBER/Digit button. In this case, it is not necessary to press PGM.
- 4 Repeat steps 2 and 3 for other tracks to be programmed.**
- 5 Press ▶.**
The tracks are played in the programmed order. When all programmed tracks have been played, the player enters stop mode.

To stop Program playback:

- Press ■
- Programs containing up to 32 steps can be created.
 - To go to the previous or next step in a program, press <<< or >>>.
 - To enter track No. 11 or above with the TRACK NUMBER/Digit buttons, see "Track Search" on page 11.
 - Each time a track is programmed, the display will show the programmed number.
 - If the magazine is in the player, the program contents will not be erased even if the power is turned off.

Programming while listening to playback (PD-M550 only)

During normal playback or program playback, you can program the desired tracks. Enter the disc No. and track No. with DISC NUMBER and TRACK NUMBER buttons during program mode. (While the PROGRAM indicator lights.)

NOTE:

During Delete programming or Time fade editing the Program button cannot be operated.

Direct Program

During normal playback or Magazine Hi-Lite Scan playback, the track being played can be programmed.

1. Press the Program button to enter the program mode.
 2. To search for a desired track during normal playback, it is possible to skip to succeeding tracks by pressing <<< or >>> button. Also, Magazine Hi-Lite Scan function can be used to move from track to track through the disc.
 3. If you wish to program the track currently playing, press the Program button while the track is playing.
- Direct programming is not possible during program playback.

Continue

Programming a pause

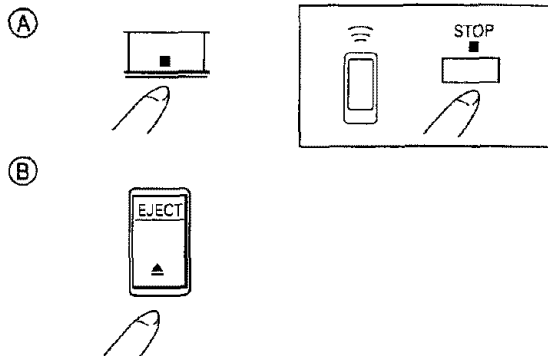
Inserting a pause in your program can be very useful when carrying out recording. Press **II** instead of entering a track number. "PA" appears on the display panel.

- For example, when recording on both sides of a cassette tape, if you program a pause after the last track to be recorded on the first side, program playback will pause at that point to allow you to switch tape sides. To resume program playback after the player enters pause mode, press **II**.

Notes:

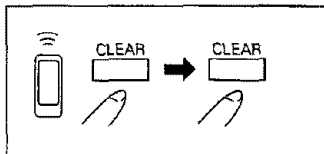
- A pause can be programmed only when the program procedure is performed under stop mode.
- A pause cannot be programmed at the beginning of a program (P-01), and two pauses cannot be programmed one after the other.
- A pause inserted in a program is counted as one step.
- If a pause is programmed as the last step of a program, the player will not enter the pause mode.

To clear all of the program contents



- (A) During stop mode, press **■**.
- (B) When the magazine is ejected, the program contents will be cleared.

To erase a program (PD-M550/PD-M455/PD-M453 only)

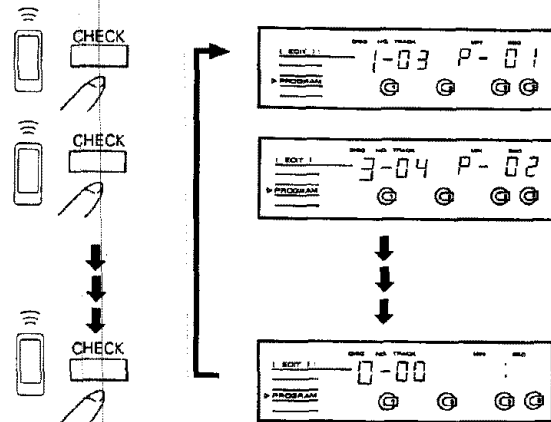


During program mode, press CLEAR on the remote control unit. The last program step is erased and the contents of the previous program step are displayed.

NOTE:

Contents of a program can be erased during playback as well. However, tracks preceding the currently playing track cannot be erased in this way.

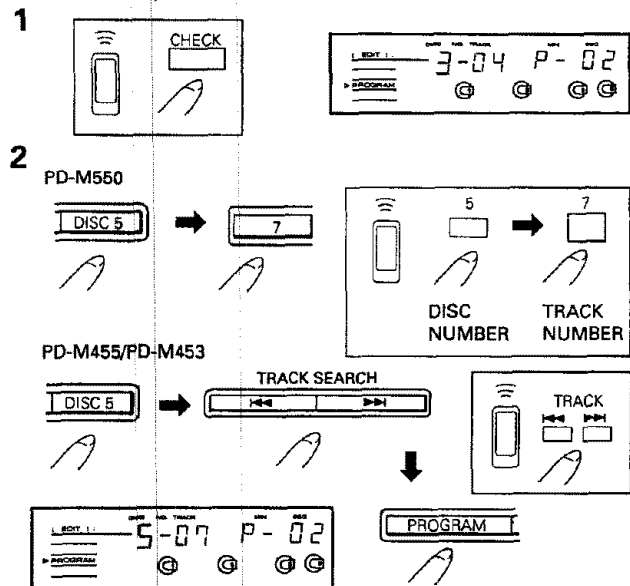
To check the program contents (PD-M550/PD-M455/PD-M453 only)



During program mode, set the player to stop mode and press CHECK. The program contents will be displayed in the programmed order.

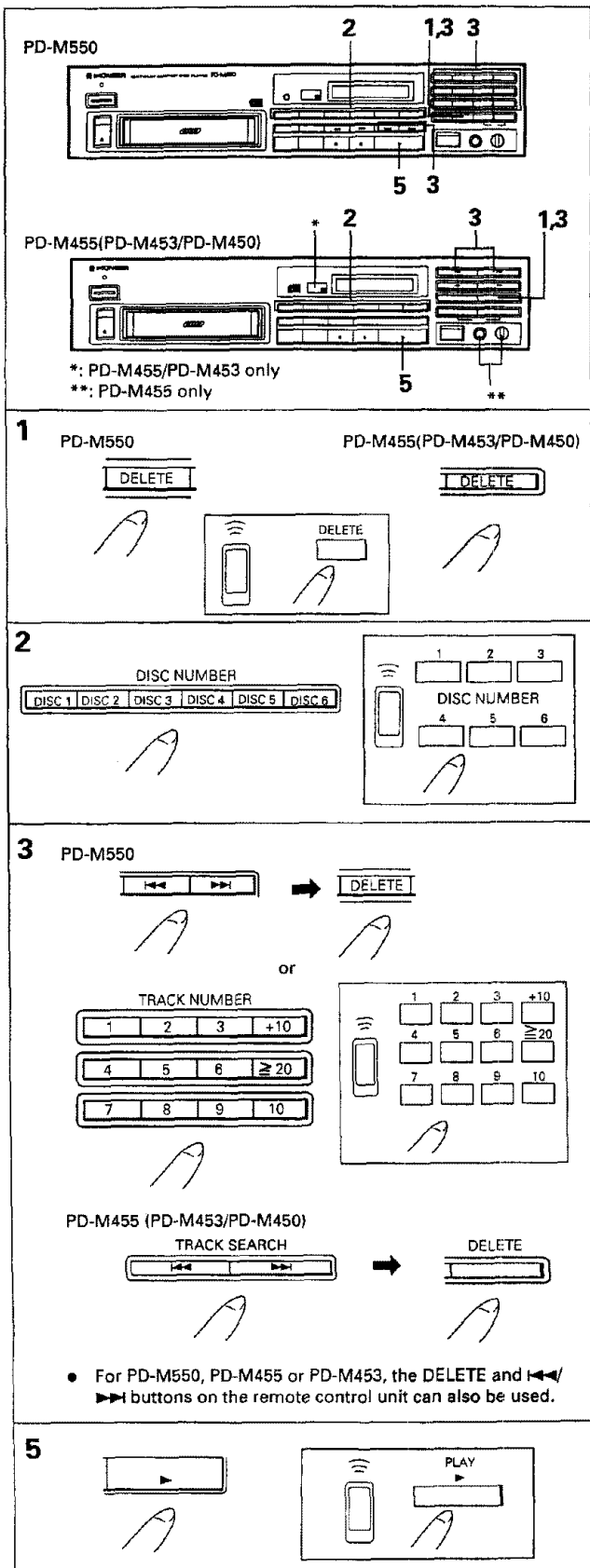
- After confirming the last program step, the display will show "0-00"

To modify the program contents (PD-M550/PD-M455/PD-M453 only)



1. During program mode, set the player to stop mode and press CHECK so that the program step to be corrected appears on the display.
 2. To correct the disc No., enter the new disc No. with the DISC NUMBER buttons. For PD-M550, enter the new track No. with the TRACK NUMBER/Digit buttons. For PD-M455/PD-M453, press **◀▶** so that the new disc No. appears on the display. For example, the programmed track No. 4 on the disc No. 3 is changed to track No. 7 on the disc No. 5, using the DISC NUMBER 5 button and TRACK NUMBER 7 button (PD-M550), or **◀▶** and PROGRAM (PD-M455/PD-M453).
- Repeat steps 1 and 2 to change other tracks as desired.
 - For PD-M550, the **◀▶** or **▶▶** button can also be used to correct the track No. After selecting the track No., be sure to press PGM.

Continue



Delete program playback - To delete undesired tracks/discs

- 1 During stop mode, press DELETE.**
The DELETE indicator lights.
- 2 Press the Disc number button which contains the track to be deleted.**
To delete entire discs, enter the desired disc numbers with the Disc number buttons and go to step 4.
- When the Disc number button is pressed, "AL" (all tracks) appears on the display.
- 3 Press \lll or \ggg button so that the track No. to be deleted appears on the display and press DELETE.**
For PD-M550 only:
Instead of the \lll or \ggg button, the TRACK NUMBER/Digit button can be used.
Enter the desired track No. with the TRACK NUMBER/Digit button. In this case, it is not necessary to press DELETE.
- 4 Repeat steps 2 and 3 for other tracks to be deleted.**
- 5 Press \blacktriangleright .**
All tracks other than deleted tracks/discs are played in the order of the disc and track numbers. When tracks have been played, the player enters stop mode.

To stop Delete program playback: Press \blacksquare .

- To enter track No. 11 or above with the Track number/Digit buttons, see "Track Search" on page 11.
- Tracks to be deleted should be selected between track No. 1 and track No. 32.
- If the magazine is in the player, the Delete Program contents will not be erased even if the power is turned off.

NOTE:
If the Program procedure has been performed, Delete programming cannot be carried out.

To clear all of the delete program contents

- (A)
 - (B)
 - (C)
- PD-M550/PD-M455/PD-M453 only**
- (A) During stop mode, press \blacksquare .
 - (B) When the magazine is ejected, the program contents will be cleared.
 - (C) Press CLEAR on the remote control unit during stop mode or play mode. When CLEAR is pressed during Delete Program playback mode, the player enters normal playback mode. (PD-M550/PD-M455/PD-M453 only)

CONVENIENT OPERATION FOR RECORDING

PD-M550

PD-M455 (PD-M453/PD-M450)

*: PD-M455/PD-M453 only
**: PD-M455 only

1

PD-M550

PD-M455(PD-M453/PD-M450)

2

DISC NUMBER

DISC NUMBER

3

PD-M550

or

TRACK NUMBER

DISC NUMBER

PD-M455 (PD-M453/PD-M450)

- For PD-M550, PD-M455 or PD-M453, the $\llcorner\triangleright\triangleright\triangleright\llcorner$ button on the remote control unit can also be used.

Compu program editing (Computer allocated program editing)

Tracks are selected for both sides of the tape.

- 1** During stop mode, press **COMPU PGM EDIT**.
 - 2** Select the disc No. with the Disc number button.
 - 3** Press **⏮** or **⏭** so that the desired playing time appears on the display and press **COMPU PGM EDIT**. Each time **⏭** is pressed, the time will be changed in the following sequence: 46 → 54 → 60 → 74 → 90 (minutes). With **⏮**, the time will be changed in the reverse direction.
- For PD-M550 only:**
Instead of the **⏮** or **⏭** button, **TRACK NUMBER/Digit buttons (1 - 10)** can be used.
Press the 10's digit button and 1's digit button sequentially. To enter 9 minutes or less, press **10** and then the corresponding digit button.

The displayed time is memorized. The player now programs the tracks for the first side of the tape within half the selected playing time, programs a pause, and then programs the tracks for the second side of the tape within half the selected playing time. After the programming is completed, the display shows all of the programmed tracks and their playing time in the programmed order.

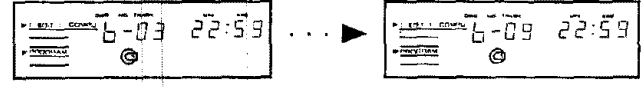
Example: The tape playing time 46 minutes is selected.

- The programmed contents are displayed in the programmed order.

First side



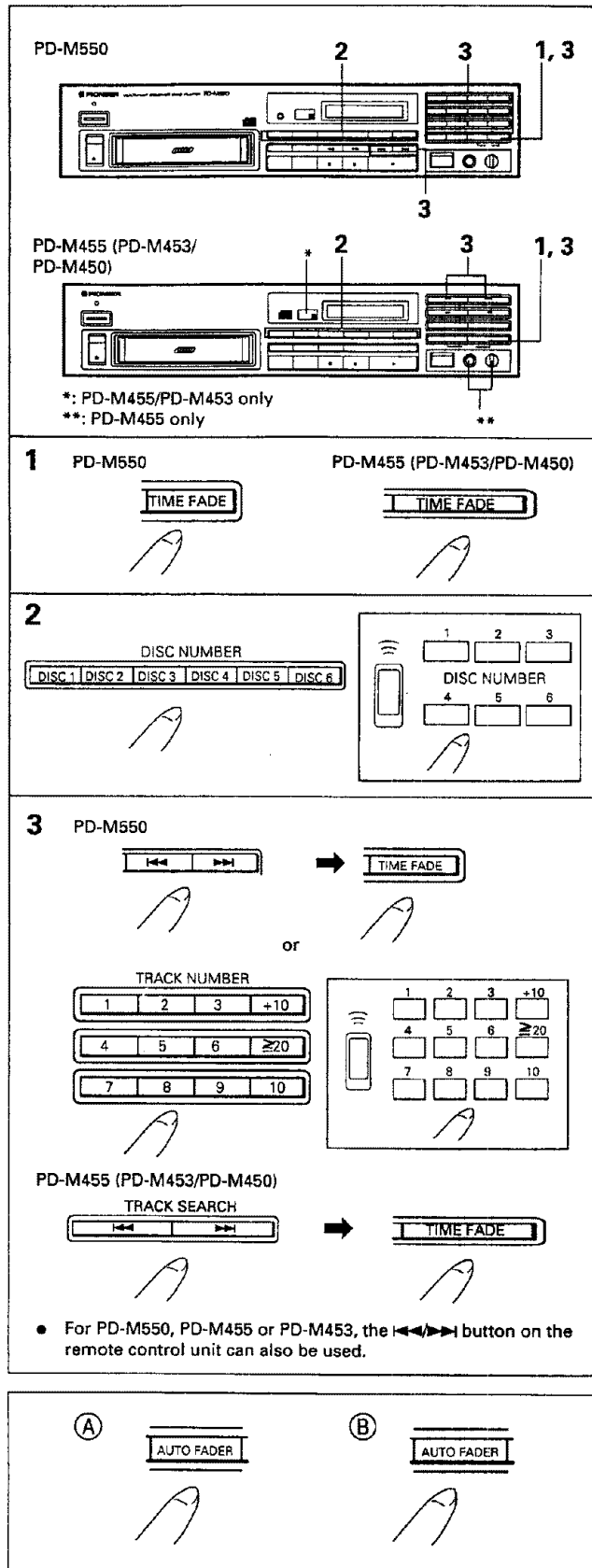
Second side



NOTES:

- Up to 32 steps can be programmed.
- With discs contained 24 tracks or more, programming may not be correctly performed.
- If the selected time is too short for any track to be programmed, programming cannot be performed.
- If you wish to enter the time with the digit buttons after the time is already entered with **⏮** or **⏭** in step 3, press **+10** or **≥20**. The digit buttons can now be operated (PD-M550 only).
- If the magazine is in the player, the contents of the Compu program editing will not be erased even if the power is turned off.

Continue



Time fade editing

Tracks are selected within the specified time and playback pauses with a fade-out.

- 1 During stop mode, press **TIME FADE EDIT**.
- 2 Select the disc No. with the **Disc number button**.
- 3 Press \lll or \ggg so that the desired playing time appears on the display and press **TIME FADE EDIT**.

Each time \ggg is pressed, the time will be changed in the following sequence: 23 → 27 → 30 → 37 → 45 (minutes). With \lll , the time will be changed in the reverse direction.

For PD-M550 only:

Instead of the \lll or \ggg button, the **TRACK NUMBER/Digit buttons (1 - 10)** can be used.

Press the 10's digit button and 1's digit button sequentially. To enter 9 minutes or less, press \square and then the corresponding digit button.

The displayed time is memorized. The player now programs the tracks within the selected playing time.

NOTES:

- If Random playback, Track Search, Disc Search or Magazine Hi-Lite Scan is done during Time Fade Editing play, Time Fade Editing will be cleared.
- If a tape playing time beyond the total playing time is selected, the player cancels the Time Fade Edit mode and enter stop mode after the specified disc is played.
- During Time Fade operation, programming for Program Playback/Delete Program Playback cannot be carried out.
- If the magazine is in the player, the contents of the Time Fade Editing will not be erased even if the power is turned off.

One-touch fade

Playback can be started from the desired point with a fade-in and stopped at the desired point with a fade-out.

- The One-touch Fade function can be carried out in Normal playback, Program playback/Delete Program playback, Random playback or Magazine Hi-Lite Scan mode.

Set the player to the desired playback mode, and then perform the following procedure.

- During pause mode, press **AUTO FADER**. The **FADER** indicator flashes and playback starts with a fade-in.
 - During playback, press **AUTO FADER**. The **FADER** indicator flashes and playback pauses with a fade-out.
- For PD-M455 and PD-M453, the **FADER** button on the remote control unit can also be used.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check 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
Magazine is not expelled when EJECT button is pressed.	<ul style="list-style-type: none"> ● Power plug is disconnected from outlet. 	<ul style="list-style-type: none"> ● Connect plug to amplifier or wall outlet.
When playback is started, it stops immediately. Pauses or stops during playback.	<ul style="list-style-type: none"> ● Disc is loaded upside down. ● Smudged on the disc, etc. 	<ul style="list-style-type: none"> ● Load the disc correctly with the label side DOWN. ● Clean the smudges from the disc and then play it again.
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 ► button.
Sound is distorted, noise is output.	<ul style="list-style-type: none"> ● Incorrect connections. ● Pin plugs and/or amplifier terminals are dirty. ● Interference is being picked up from a TV set. 	<ul style="list-style-type: none"> ● Connect to amplifier's AUX or CD terminals. Do not connect to PHONO terminals. ● Clean away dirt. ● Switch OFF TV set, or move player away from TV set.
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.
The picture of the TV screen is fluctuated or FM broadcast is interfered with noise.	<ul style="list-style-type: none"> ● Interference is being picked up from the CD player. 	<ul style="list-style-type: none"> ● Turn off POWER of the player, or move the player away from TV or tuner.
Remote control will not function. (PD-M550/PD-455/PD-M453 only)	<ul style="list-style-type: none"> ● Dead batteries. ● Too far from player or wrong angle. ● Obstruction between player and remote control unit. 	<ul style="list-style-type: none"> ● Replace batteries. ● The distance between remote control unit and player should be no more than about 7 meters. The operational angle against the front panel is within 30° from right or left end of player. ● Relocate remote control unit or remove obstruction.

SPECIFICATIONS

1. General

Type Compact disc digital audio system

Power requirements

- European models AC 220 - 230 V, 50/60 Hz
- U.K. and Australian models AC 230 - 240 V, 60 Hz
- U.S. and Canadian models AC 120 V, 60 Hz
- Other models AC 110/120 - 127/220/240 V (switchable), 50/60 Hz

Power consumption 12 W

Operating temperature +5°C - +35°C
(+41°F - +95°F)

Weight 3.9 kg (8 lb, 10 oz)

External dimensions

- PD-M550 420(W) X 291(D) X 101(H) mm
16-9/16(W) X 11-7/16(D) X 4(H) in
- PD-M455/PD-M453/PD-M450 420(W) X 291(D) X 96(H) mm
16-9/16(W) X 11-7/16(D) X 3-12/16(H) in

2. Audio section

Frequency response 2 Hz - 20 kHz

S/N ratio 102 dB or more (EIAJ)

Dynamic range 96 dB or more (EIAJ)

Harmonic distortion 0.003% or less (EIAJ)

Output voltage 2.0V

Wow and flutter Limit of measurement
(±0.001% W.PEAK) or less (EIAJ)

Channels 2-channel (stereo)

3. Output terminal

Audio line output

Headphone jack with volume control (PD-M550/PD-M455 only)

Control input/output jacks (available with the PD-M450 and U.S. and Canadian models of the PD-M550, PD-M455 and PD-M453: Not available with models for military zones (multi-voltage types))

CD-DECK SYNCHRO jack

4. Functions

Number of discs to be stored - maximum 6.

Basic operation buttons

- PLAY, PAUSE, STOP

Search function

- Disc search
- Track search
- Manual search

Magazine Hi-Lite Scan

- DISC SCAN
- TRACK SCAN

Programming

- Maximum 32 steps
- Pause
- Program check/correction (remote control unit provided with PD-M550/PD-M455/PD-M453 only)
- Program clear (single track or all tracks) (remote control unit provided with PD-M550/PD-M455/PD-M453 only)
- Delete play

Repeat functions

- 1 track repeat
- All discs repeat
- Program repeat
- Random play repeat
- Delete play repeat
- Delete random play repeat
- Magazine Hi-Lite scan repeat

Random play

- Random play (repeat also available)
- Delete random play (repeat also available)

Switching display

Time consumed, remaining time (track/disc), and total time

Timer start

ADLC

Digital level controller (PD-M550/PD-M455/PD-M453 only)

Volume control can be done.

One-touch fade

Fade-in and fade-out possible.

Time fade editing

Selects the tracks within the specified time. Playback pauses with a fade-out.

Compu program editing

Selects the tracks for both sides within the specified time.

Power ON/OFF function (remote control unit provided with PD-M550/PD-M455/PD-M453 only)

Automatic Power On

Power Down Eject

5. Accessories

- Remote control unit (PD-M550/PD-M455/PD-M453 only) 1
- Size AAA/R03/dry batteries (PD-M550/PD-M455/PD-M453 only) 2
- Six-compact-disc magazine 1
- Control cord (provided with PD-M450 and U.S. and Canadian models of PD-M550/PD-M455/PD-M453 only: Not available with models for military zones (multi-voltage types)) 1
- Output cable 1
- Operating instructions 1

NOTE:

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

The Magazine Type Multi-Play CD Players with  mark and the Magazines with the same mark are compatible for 5-inch (12cm) discs.

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