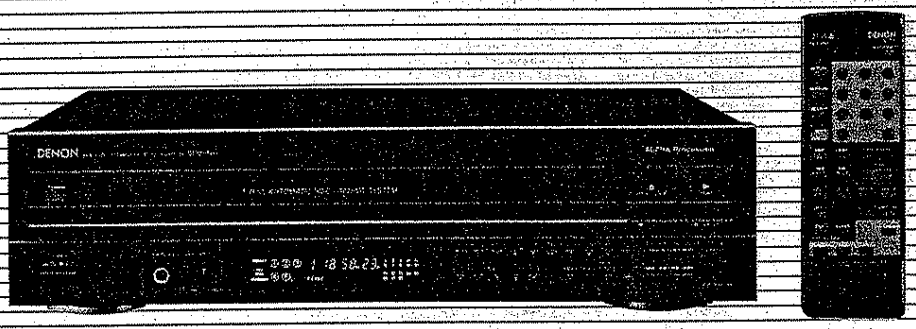
DENON

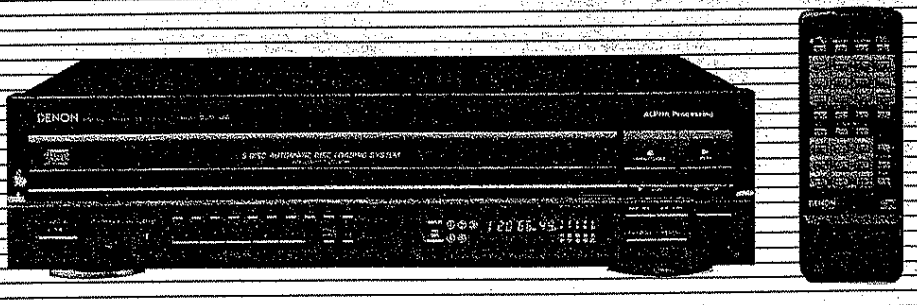
STEREO CD PLAYER

DCM-560 / 460

OPERATING INSTRUCTIONS
MODE D'EMPLOI
INSTRUCCIONES DE OPERACION



DCM-560



DCM-460

FOR ENGLISH READERS PAGE 5 ~ PAGE 19
POUR LES LECTEURS FRANCAIS PAGE 20 ~ PAGE 34
PARA LECTORES DE ESPAÑOL PAGINA 35 ~ PAGINA 43

IMPORTANT TO SAFETY

WARNING:

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

CAUTION:

1. **Handle the power supply cord carefully**
   Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.
2. **Do not open the top cover**
   In order to prevent electric shock, do not open the top cover. If problems occur, contact your DENON dealer.
3. **Do not place anything inside**
   Do not place metal objects or spill liquid inside the CD player. Electric shock or malfunction may result.

Please, record and retain the Model name and serial number of your set shown on the rating label
Model No. DCM-560/460 Serial No. _____

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

IMPORTANT (BRITISH MODEL ONLY)

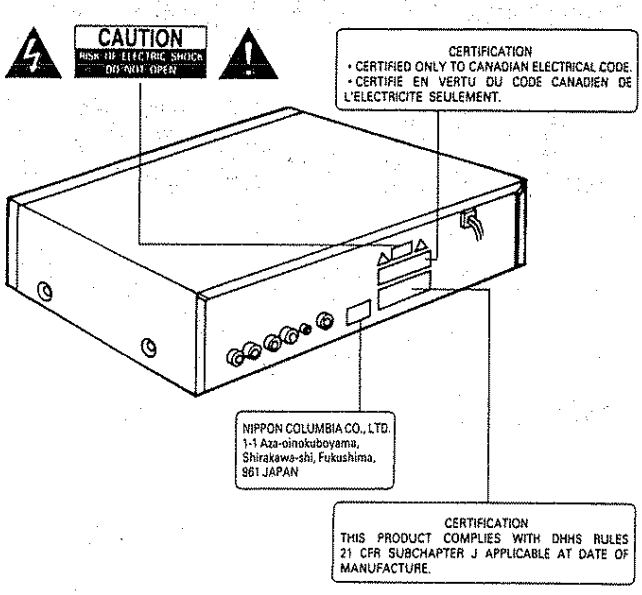
The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral Brown: Live

The colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings 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.

NOTE:
This CD player uses the semiconductor laser. To allow you to enjoy music at a stable operation, it is recommended to use this in a room of 10°C (50°F) – 35°C (95°F).

LABELS (for U.S.A. model only)



CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

NOTE:
This unit may cause interference to radio and television reception if you do not operate it in strict accordance with this OPERATING INSTRUCTIONS.

This unit complies with Class B computing device rules in accordance with the specifications in Sub-part J or Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. If the unit does cause interference to any radio or television reception, try to reduce it by one or more of the following means:
a) Turn the other unit to improve reception
b) Move this unit
c) Move this unit away from others
d) Plug this unit respectively into a different AC outlet

*** This is note in accordance with Section 15.838 of the FCC Rules.**

- **FOR U.S.A. & CANADA MODEL ONLY**

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

- **POUR LES MODELES AMERICAINS ET CANADIENS UNIQUEMENT**

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions – The safety and operating instructions should be retained for future reference.

3. Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions – All operating and use instructions should be followed.

5. 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, and the like.

6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A. 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.

7. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

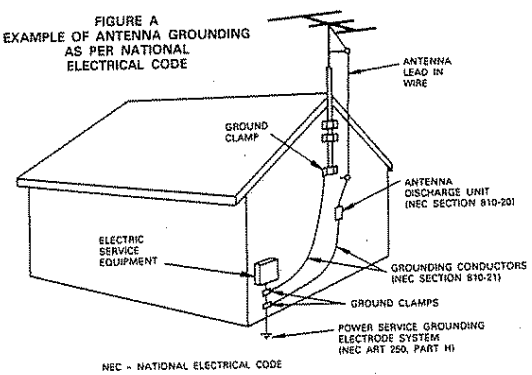
8. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation,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

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

10. 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.

11. Grounding or Polarization – Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



NEC - NATIONAL ELECTRICAL CODE

12. 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.

14. Cleaning – The appliance should be cleaned only as recommended by the manufacturer.

15. Power Lines – An outdoor antenna should be located away from power lines.

16. Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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 Figure A.

17. Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

18. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

19. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:

A. The power-supply cord or the plug has been damaged; or

B. Objects have fallen, or liquid has been spilled into the appliance; or

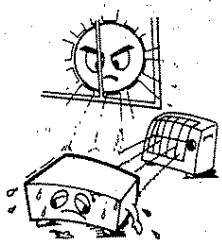
C. The appliance has been exposed to rain; or

D. The appliance does not appear to operate normally or exhibits a marked change in performance; or

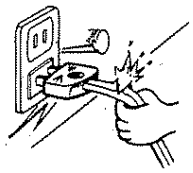
E. The appliance has been dropped, or the enclosure damaged.

20. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

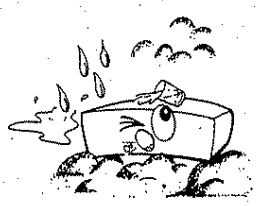
NOTE ON USE/OBSERVATIONS RELATIVES A L'UTILISATION/NOTAS SOBRE EL USO



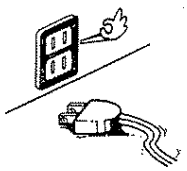
- Avoid high temperatures
  Allow for sufficient heat dispersion when installed on a rack.
- Eviter des températures élevées
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evite altas temperaturas
  Permite la suficiente dispersión del calor cuando está instalado en la consola.



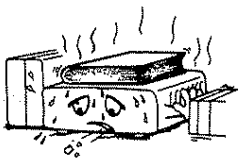
- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Maneje el cordón de energía con cuidado.
  Sostenga el enchufe cuando desconecte el cordón de energía.



- Keep the set free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Mantenga el equipo libre de humedad, agua y polvo.

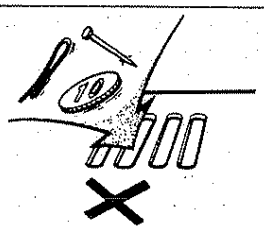


- Unplug the power cord when not using the set for long periods of time.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.



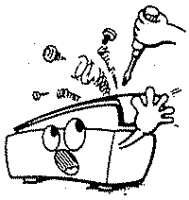
*(For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Ne pas obstruer les trous d'aération.
- No obstruya los orificios de ventilación.



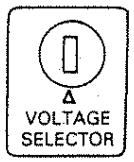
- Do not let foreign objects in the set.
- Ne pas laisser des objets étrangers dans l'appareil.
- No deje objetos extraños dentro del equipo.

- Do not let insecticides, benzene, and thinner come in contact with the set.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.



- Never disassemble or modify the set in any way.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Nunca desarme o modifique el equipo de ninguna manera.

- **Line Voltage Selection (for multiple voltage model only)**
  * The desired voltage may be set with the VOLTAGE SELECTOR knob on the rear panel, using a screwdriver.
  * Do not twist the VOLTAGE SELECTOR knob with excessive force as this may cause damage.
  * If the VOLTAGE SELECTOR knob does not turn smoothly, please contact a qualified serviceman.



- **NUR FÜR EUROPÄISCHE MODELLE**

Konformitätserklärung

Die DENON Electronic GmbH
Halskestraße 32
40880 Ratingen

Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblattverfügung 868/1989 (Amtsblatt des Bundesministers für Post und Telekommunikation vom 31. 8. 1989) entspricht.

Thank you for purchasing the DENON compact disc player. Read the Operating Instructions thoroughly, and operate this player properly.

– TABLE OF CONTENTS –

FEATURES 5
CAUTIONS DURING USE 5
NAMES OF PARTS AND THEIR FUNCTIONS ..... 6~8
CONNECTIONS ..... 8~9
OPENING AND CLOSING THE DRAWER AND LOADING A DISC 9
NORMAL PLAY 10
OTHER PLAY METHODS ..... 10~15
INSTALLATION PRECAUTIONS 16
PLAY USING THE REMOTE CONTROL UNIT ..... 16~18
COMPACT DISCS 19
TROUBLE? CHECK THE PLAYER TO FIND WHAT'S WRONG 19
SPECIFICATIONS 19

In addition to the CD Player unit, please check to make sure the following items are included in the packing box.

(1) Operating Instructions 1
(2) Connection Cords 1
(3) Remote Control Unit RC-239 (DCM-560) 1
RC-246 (DCM-460) 1
(4) R6P (AA size) Dry batteries (RC-239) 2
R03 (AAA size) Dry batteries (RC-246) 2

IMPORTANT
(CANADIAN MODEL ONLY)

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

FEATURES

The DCM-560 and DCM-460 are CD players equipped with DENON's unique A.S.L.C (Advanced Super Linear Converter) for eliminating sound quality deterioration in the PCM playback system in order to faithfully recreate the sound field of live halls or studios where compact discs are recorded. These models use carefully selected parts to provide high performance and sound field recreation with rich musical expression.

(1) **Ultimate signal reproduction using a newly developed ALPHA processor**
1. High speed interpolation by the newly developed ALPHA processor recreates the data below the LSB (least significant bit) lost upon recording to provide smooth waveform reproduction.
2. The original signals, including such unusual waveforms as impulse response, can also be reproduced with no ringing.
3. The effects of ALPHA processing are particularly noticeable at low levels, such as when music gently fades out or gradually emerges from total silence.

(2) **Advanced Super Linear Converter**
The use of DENON's unique system for preventing zero cross distortion, the main cause of deterioration of the sound quality in the PCM playback system, provides for sound field recreation with rich musical expression.

(3) **High performance digital filter**
The DCM-560/460 uses high precision 20-bit 8-times oversampling digital filters.

(4) **Programming of up to 20 tracks**
All of the tracks on a CD can be programmed to play in any order. Programming in units of discs (all tracks on a disc) is also possible.

(5) **Newly developed carousel-type changer mechanism included**
This mechanism can house five discs, and while one disc is playing the remaining four discs can be changed. In addition, the carousel can be rotated either clockwise or counterclockwise, so searching between discs is fast.

(6) **Wireless Remote Control Accessory**
In addition to general operations such as Play, Stop and Pause, this remote control unit enables direct selection, direct programming, and other functions. Use of the remote control unit adds greatly to the operating ease of the DCM-560/460, enhancing its outstanding features.

(7) **Favorite Track File (F.T. FILE)**
This function stores your favorite tracks for each of the discs. Using a deletion method, this function deletes up to 6 tracks on 1 disc, providing storage for up to 100 discs. Storage is retained even after the power is switched off.

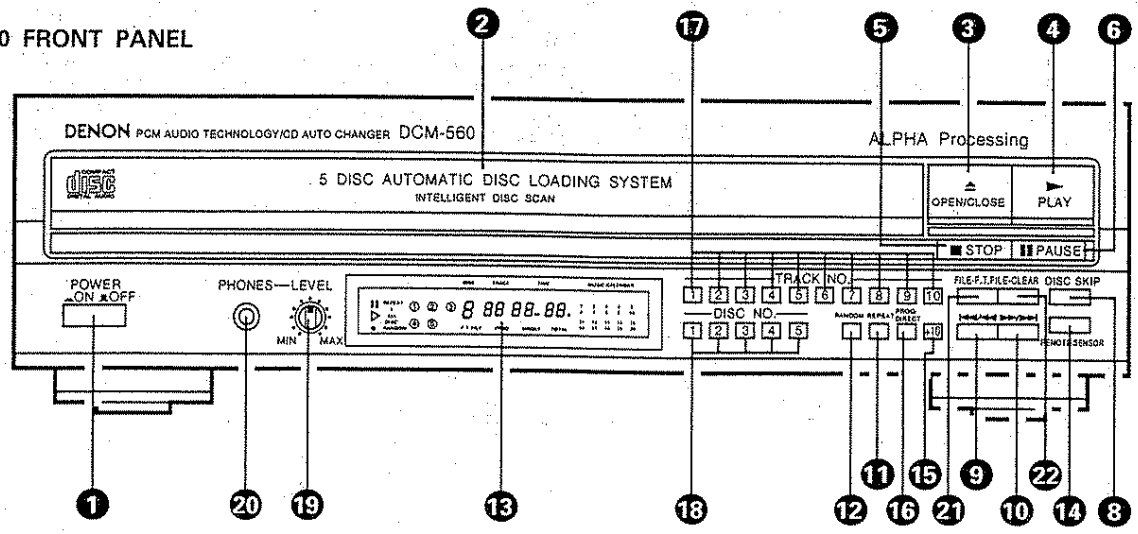
(8) **Synchronized Recording Function**
Connect the SYNCHRO jack with a DENON cassette deck which is equipped with a SYNCHRO jack, then make a synchronized recording.

CAUTIONS DURING USE

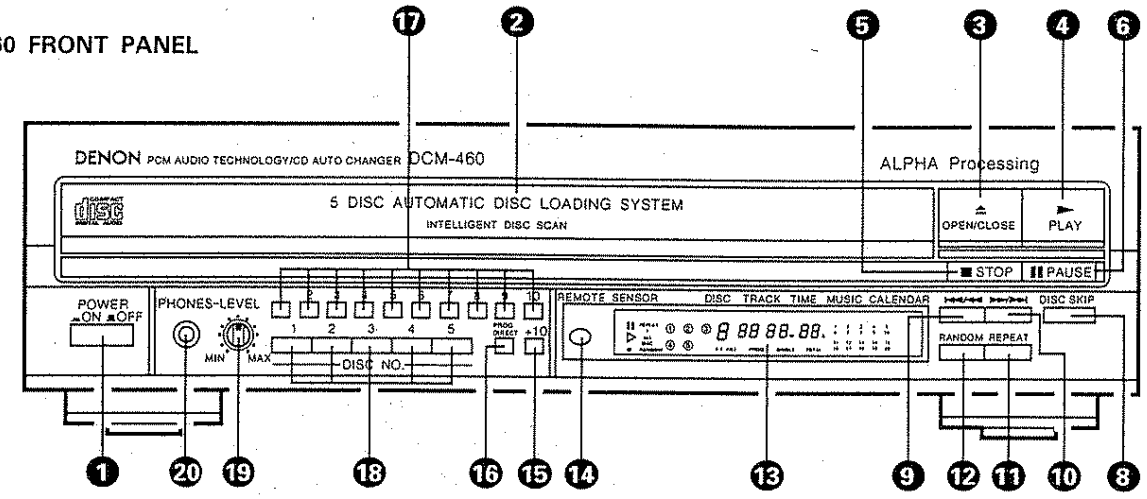
- This compact disc player is capable of playing discs which have the mark at right.
- During track selection, during search and when the player sustains a strong impact, the disc's rotational speed changes greatly, causing a small noise to be emitted. This is not a malfunction of the player.
- If the CD player is operated while an FM or AM broadcast is being received, there may be noise in the FM or AM reception. Please switch the power to the CD player off at such times.
- The DCM-560/460 has a broad dynamic range. Please exercise caution when turning up the volume on the amplifier in cases when the playback volume is low. If the volume is turned up too high, it could damage the speakers.
- Do not use any discs but exclusive audio discs with this CD player.
- Placing this player or its connection cords near a TV or other audio device could cause a humming sound to be emitted. If this occurs, relocate the player or reroute the connection cords.
- Be sure to remove the disc from the player before moving it. The disc could be damaged if left in the player while it is being moved.
- Do not place any object in the tray in the position where the disc is loaded, or open and close the tray with anything inside. Foreign objects in the tray could damage the play mechanism.
- Do not move the player from a cold place to a warm place suddenly. If the player is cold when brought into a warm room, condensation could form, preventing proper operation of the player. If condensation does form on the player when it is brought into a warm room, wait at least 30 minutes before use.

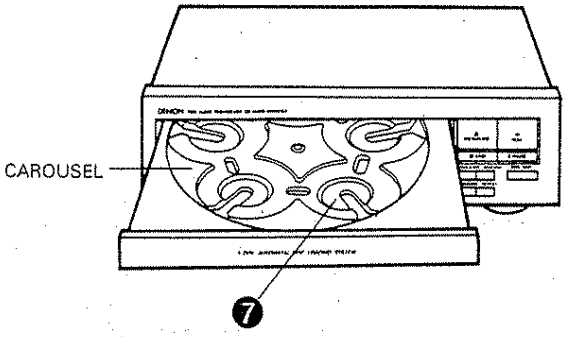
NAMES OF PARTS AND THEIR FUNCTIONS

DCM-560 FRONT PANEL

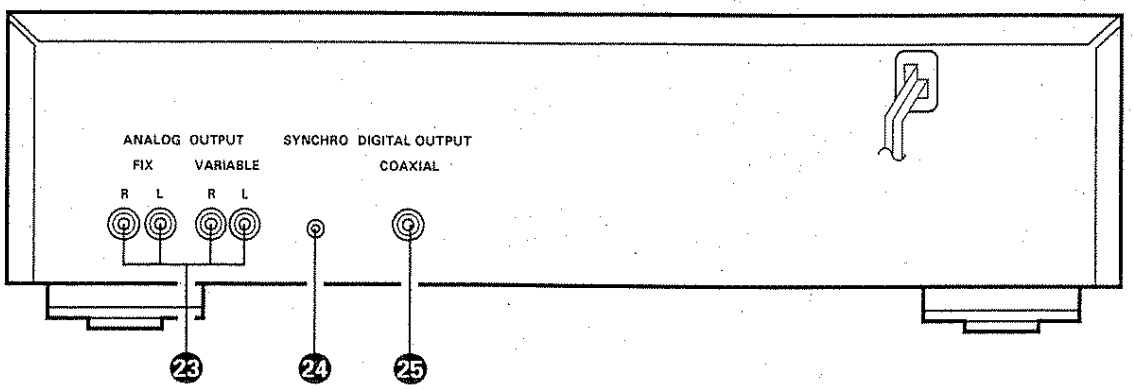


DCM-460 FRONT PANEL





DCM-560/460 REAR PANEL



❶ Power Switch (POWER)
- Press this button to switch on the power.
- When the power is turned off, the unit is set to the standby mode.
  If the power is turned off during playback or while the disc information is displayed on the time display, several seconds after the power is turned back on, the number of the disc appears on the disc number display, the total number of tracks on that disc is displayed on the track number display, and the total time is displayed on the time display, and approximately 1 second later playback starts.

❷ Loading drawer
- Discs can be loaded and unloaded when this drawer is open. Do not force the drawer closed by hand.

❸ Open/Close Button (⏏ OPEN/CLOSE)
- Press this button when opening.
- The drawer is opened toward the front.
- Press the button again to close the drawer.

❹ Play Button (▶ PLAY)
- Press this button to play a disc.
  The [▶] indicator lights up when the button is pressed, the number of the disc and the track being played is displayed by the Disc Number and Track No. indicator, and the amount of elapsed time for the current track is displayed by the Time indicator.
- The [▶] indicator goes off after playing of the final track of the final disc is finished and the player stops.

❺ Stop Button (■ STOP)
- Press this button to stop play.

❻ Pause Button (II PAUSE)
- Press this button to stop play temporarily.
- Pressing the Pause button during play stops play temporarily. The [▶] indicator goes off and the [II] indicator lights up.
- To cancel the Pause state, press either the Play button ❹ or press the Pause button ❻ a second time.

❼ Disc trays (1 ~ 5)
- One disc per tray can be loaded.

❽ Disc skip button (DISC SKIP)
- Each time this button is pressed, the carousel will rotate in a clockwise direction to the next tray position. This allows for loading or unloading of discs.
  This button is also used to select the next disc, in the normal play continuously.

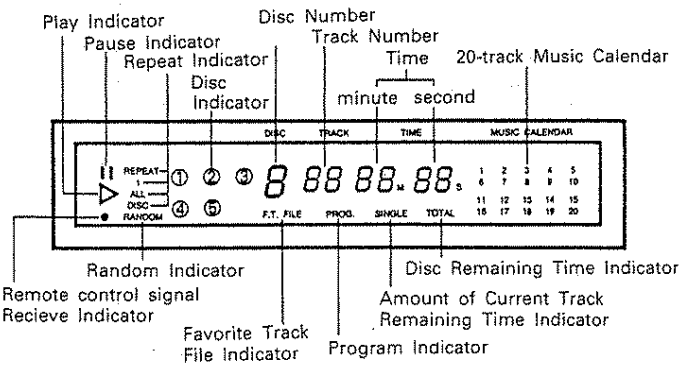
❾ Automatic/Manual Search Reverse Button (⏮ / ◀◀)
- Press this button to return the pickup to the beginning of the present track. Press again to return to other tracks.
- By pressing the button a number of times, the pickup will move back the corresponding number of tracks.
- Keep on pressing this button for more than 0.5 seconds during playback for fast reverse search. As long as the button is kept pressed, music signals are played back faster than normal.
- Keep on pressing this button for more than 0.5 seconds when the pause mode is engaged, you can quickly reverse the pickup to a desired position, three times faster compared to manual reverse search during playback. During this time, no sound is heard.

❿ Automatic/Manual Search Forward Button (▶▶ / ⏭)
- Press this button to move the pickup forward to the beginning of the next track. Press again to move ahead to other tracks.
- By pressing the button a number of times, the pickup will advance the corresponding number of tracks.
- Keep on pressing this button for more than 0.5 seconds during playback for fast forward search. As long as the button is kept pressed, music signals are played back faster than normal.
- Keep on pressing this button for more than 0.5 seconds when the pause mode is engaged, you can quickly forward the pickup to a desired position, three times faster compared to manual forward search during playback. During this time, no sound is heard.

⓫ Repeat Button (REPEAT)
- Press this button for repeated playback. The [REPEAT] indicator appears on the display. The following three types of repeat modes are available:
- When pressed once, the [REPEAT] and [1] indicators light and the track currently playing is repeated.
- When pressed again, the [REPEAT] and [1 DISC] indicators light and all the tracks on the disc currently playing are repeated.
- When pressed again, the [REPEAT] and [ALL DISC] indicators light and all the discs currently set on the tray are repeated.
- When pressed again, the [REPEAT] and [ALL DISC] indicators turn off and the repeat mode is cancelled. The repeat function can also be used during programmed and random playback, but in this case only the all repeat ([ALL DISC] indicator) modes are available.
  (Refer to Page 12 item ❻.)

⓬ Random Button (RANDOM)
- Press this button to begin random play.
- Pressing this button during stop, and press play button play to full automatic random play.
- Pressing this button during playing of a program starts random play of the tracks in the program.
  (See page 12, item ❼.)

⓭ Display Window
- The Disc No., Track No., playing time and other information are displayed in the display window.



⑭ **Remote Control Receptor (REMOTE SENSOR)**
- This receptor receives infrared signals from the wireless remote control unit.
- Aim the wireless remote control unit at this receptor window when operating it.

⑮ **+10 Button (+10)**
- Press this button when selecting a track with a number greater than 11.
  Use this button in combination with the number buttons ⑰. For example, when selecting track number 15, press [+10], then [5].
  To select track number 32, press [+10], [+10], [+10], then [2].

⑯ **Program/Direct Button (PROG/DIRECT)**
- Pressing this button selects between program memory and direct track selection.

⑰ **Track Number Buttons (1 ~ 10)**
- Press these buttons when making direct track selections or when entering tracks in program memory.
  For example, when making a direct track selection, press the [3] button when desiring to play track 3. The player will then begin playing track 3. When desiring to play track 12, press [+10], then [2]. When making a program, press the Program/Direct button ⑯ to enter the Program Mode.

⑱ **Disc Number Buttons (DISC NO.) (1 ~ 5)**
- Press these buttons to specify which disc you want to play.

⑲ **Volume Adjustment Knob (LEVEL)**
- Use this knob to adjust the output level (volume) for the headphones.
- Use this knob to adjust the output level (volume) for the headphones and line output (VARIABLE).

(DCM-560 only)

⑳ **Headphone Jack (PHONES)**
- Insert the jack of the headphones when desiring to listen to a disc privately. (Headphones are sold separately.)

㉑ **Favorite Track File Button (F.T. FILE – FILE)**

(DCM-560 only)
- Press when switching to the F.T. file mode and when storing the program of the F.T. file to the file. (Refer to page 14, item ⑪.)

㉒ **Favorite Track File Clear Button (F.T. FILE – CLEAR)**

(DCM-560 only)
- Press to delete the program of the F.T. file which is stored in the file. (Refer to page 14, item ⑪.)

㉓ **Output Terminal**
- Connect the connection cords from these terminals to the amplifier's input terminals. (See page 8 for connections.)

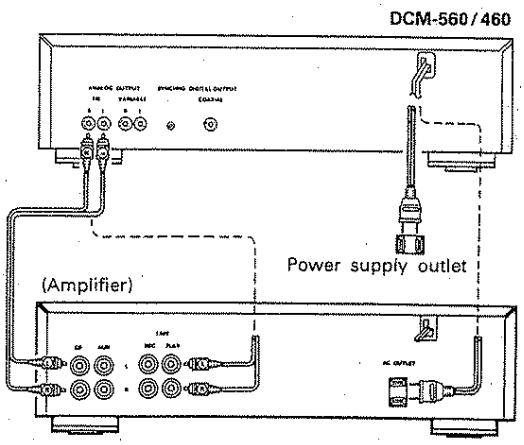
㉔ **SYNCHRO Jack (SYNCHRO)**
- To make a synchronized recording, this jack must be connected to the SYNCHRO jack of the deck with a connection cord. (See page 8 for connections.)

㉕ **Digital Output Jack (COAXIAL)**
- This jack outputs digital data.
- We recommend using a 75 Ω/ohm pin cord (available in stores) for connections. (See page 9 for connections.)

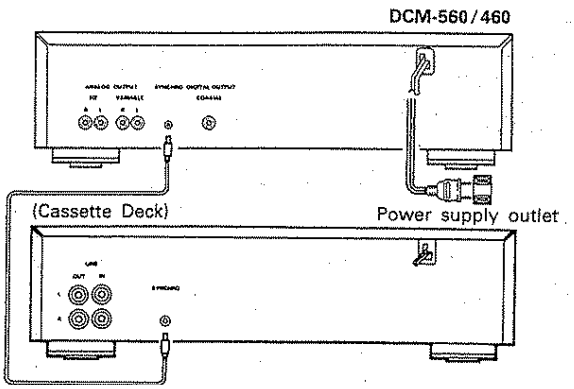
Note:
- Do not stop the carousel by hand when it is turning. If this is done, the microprocessor erroneously determines the disc number and the disc can be damaged.

CONNECTIONS

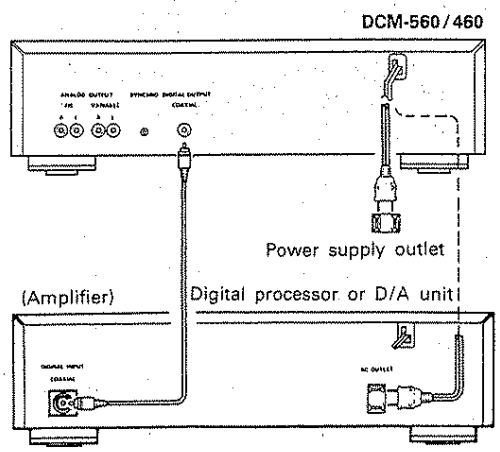
(1) Connecting the Output Terminal
- Connect one end of the connection cord supplied with the CD Player to the output terminals, left (L) and right (R) of the CD Player, and the other end to the CD, AUX or TAPE PLAY input terminals, left (L) and right (R), of the amplifier.



(2) SYNCHRO Jack Connections
Connect the SYNCHRO jack with a DENON cassette deck which is equipped with a SYNCHRO jack, then make a synchronized recording. Use the connection cord supplied with the cassette deck.
To make use of this function, also connect the output jacks and make the settings so that a recording can be made from the CD player to the cassette deck.



(3) Connecting the Digital Output Jack (COAXIAL)
Use a 75 Ω/ohm pin cord to connect the digital output jack (COAXIAL) of the DCM-560/460 to the digital input jack (COAXIAL) on a digital processor or D/A unit, available in stores.



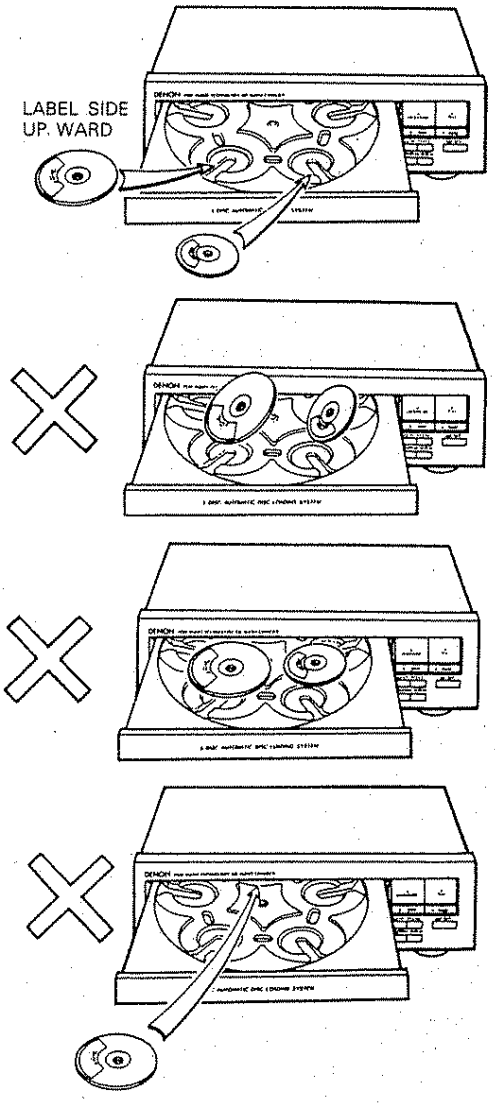
Connection Precautions
- Before proceeding with connections or disconnections of cables and power cords, be sure to turn all system components off.
- Ensure that all cables are connected properly to the L (left) and R (right) jacks.
- Insert plugs fully into the terminals.
- Connect the output jacks to the amplifier CD, AUX or TAPE PLAY input jacks.

OPENING AND CLOSING THE DRAWER AND LOADING A DISC

Opening and closing the drawer (This operation only works while the power is on.)
1. Press the power switch (POWER) to turn on the power.
2. Press the open/close button (⏏ OPEN/CLOSE).

How to load a disc
- Make sure the drawer is completely open.
- Hold the disc by the edges and place it on the disc tray. (Do not touch the signal surface, i.e., the glossy side.)
- Set the disc properly in the tray according to its size.
  Set 8cm discs in the center hole.
  Set 12cm discs in the outer hole.
- When the drawer is opened during the stop mode, discs can be loaded in the disc 1 to disc 4 trays. If the DISC SKIP button is pressed, the carousel turns and a disc can be loaded in the disc 5 tray.
  When the drawer is opened during the play mode, it is possible to load and unload discs in all of the disc trays other than the one whose disc is currently playing. In this case, the DISC SKIP button will not operate.
- Press the open/close button (⏏ OPEN/CLOSE) to close the drawer.

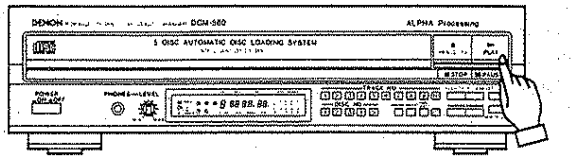
Caution:
- The player will not operate properly and the disc may even be damaged if it is not set correctly.
- If your finger should get caught in the drawer when it closes, press the open/close button (⏏ OPEN/CLOSE).
- Do not place any foreign objects on the disc tray, and do not place more than one disc on the tray at a time. Otherwise malfunction may occur.
- Do not push in the disc tray manually when the power is off as this may cause malfunction and damage the CD player.
- Do not touch the carousel while it is turning. Also, do not turn the carousel by hand when it is stopped. Doing so could damage it.
- Do not insert disc where indicated by arrow.
  This could damage the internal mechanism in the unit.



NORMAL PLAY

Follow the steps below to get an understanding of the disc play procedure.

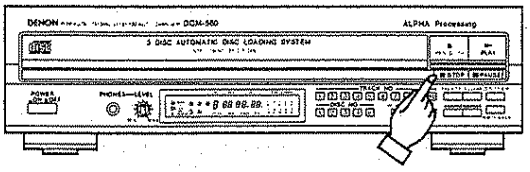
(1) Starting Playback



(▶ PLAY)

1. Turn the power switch on and press the open/close (⏏ OPEN/CLOSE) button to open the drawer.
2. Set the disc to be played in the tray on left side.
3. Press the play button (▶).
4. The drawer closes and the disc just loaded is played.
5. The disc number, track number and elapsed time, etc., for the disc currently playing appear on the display window.
6. If the open/close (⏏ OPEN/CLOSE) button is pressed while a disc is playing, playback continues, but the drawer opens and four discs can be replaced.
   Press the open/close (⏏ OPEN/CLOSE) button again to close the drawer.

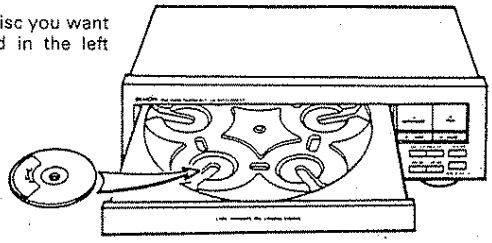
(2) Stopping Playback



(■ STOP)

1. Press the stop button (■) to stop playback.
2. To replace discs, press the open/close (⏏ OPEN/CLOSE) button. The disc which was playing switches over to the left side and the drawer opens.

- Set the disc you want to played in the left side.

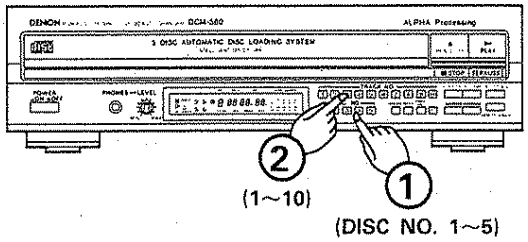


OTHER PLAY METHODS

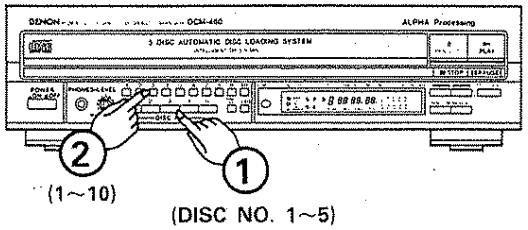
In addition to normal play, the following methods can be used when playing a disc.

❶ To Play the Desired Disc and Desired Track ..... Direct Selection

DCM-560



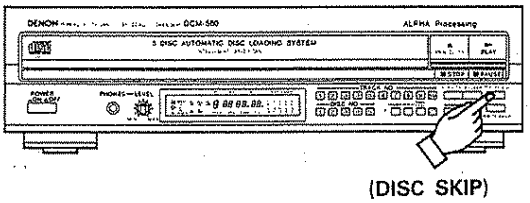
DCM-460



1 Press the button for the number of the desired disc (1 to 5).
2 Next, press the number of the desired track (1 to 10 and +10 buttons).

- Input the number of the track you would like to play with the Track Number buttons. If you would like to play the 4th track on the 3rd disc, press [3] for the Disc Number, then [4] for the Track Number. If you would like to play the 12th track on the 5th disc, press [5] for the Disc Number and [+10] and [2] for the Track Number. Play will begin from the number of the disc and the track input.

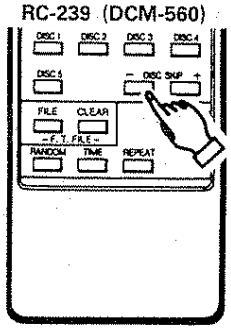
❷ To Move to the Next Disc During Playback ..... Disc Skip



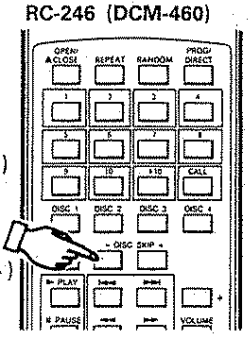
(DISC SKIP)

1 Press the disc skip button. The carousel in the drawer turns and the disc on the next tray is played.
For example, if disc number 3 was playing, the disc switches to disc number 4, and if disc number 5 was playing, the disc switches to disc number 1.
2 In addition, when the Disc Skip – button on the remote control unit is pressed, the carousel turns in the opposite direction and the previous disc is played.

RC-239 (DCM-560)



RC-246 (DCM-460)

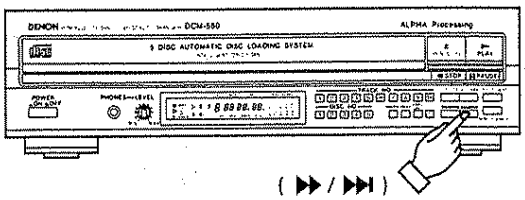


❸ To Move to the Next Track during Play ..... Automatic Search

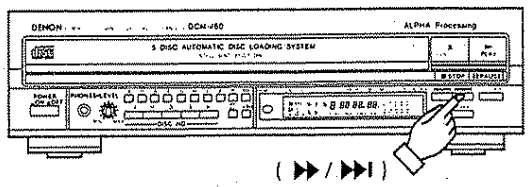
Press the Automatic/Manual search forward button (▶▶ / ▶▶|) for less than 0.5 seconds during playback.

- The pickup will advance to the beginning of the next track and playback will continue. Pressing the button several times will forward the pickup the corresponding number tracks.

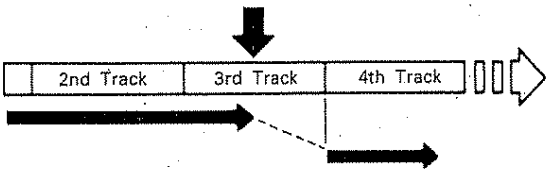
DCM-560



DCM-460



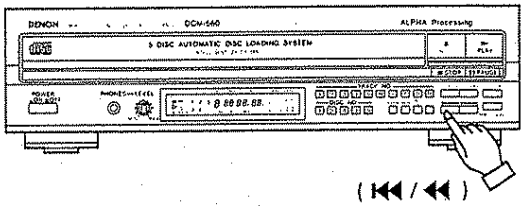
Press the ▶▶ / ▶▶| button



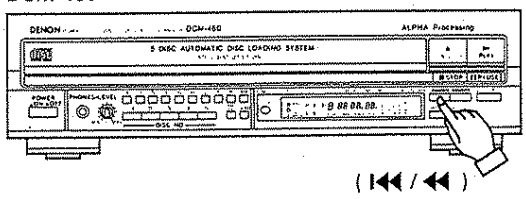
During Random or Program operation, player moves to the beginning of the next random or program track selection.

❹ To return to the beginning of the track now being played ..... Automatic Search

DCM-560



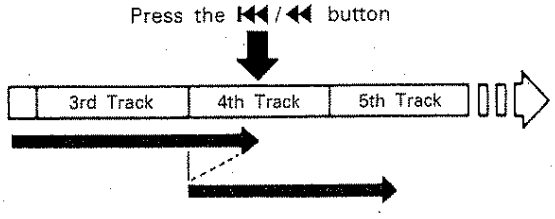
DCM-460



Press the Automatic/Manual search reverse button (|◀◀ / ◀◀) for less than 0.5 seconds during playback.

- The pickup will return to the beginning of the current track and playback will continue. Pressing the button several times will return the pickup the corresponding number tracks.

Press the |◀◀ / ◀◀ button

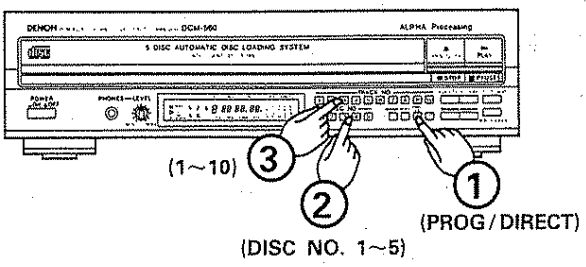


❺ To Play the Desired Discs and the Desired Tracks in the Desired Order ..... Program Selection

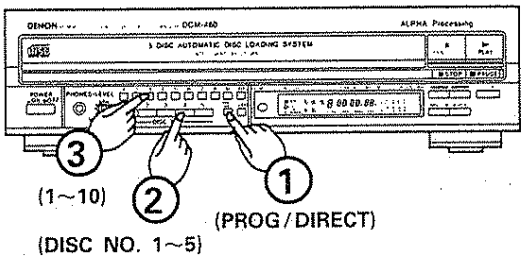
- You can play certain tracks on the loaded discs in any order.
- Tracks on a disc not loaded can also be programmed, but if you try to play that disc, the microprocessor detects that it is not loaded and the following disc is played automatically.
- Up to 20 tracks can be set in a program.
- A program can be made for a single entire disc.

(1) Programming

DCM-560



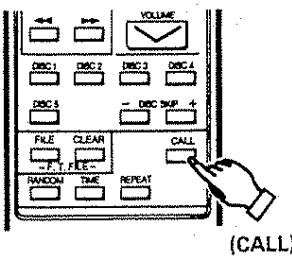
DCM-460

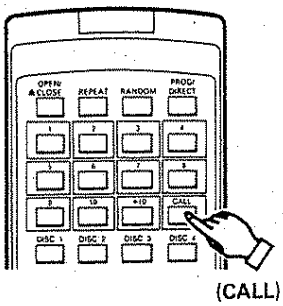


- Pressing the Program (PROG/DIRECT) button causes the Program indicator to light up. Select the disc, track in the program using the Disc Number buttons and the Track Number buttons and [+10] button. For example, if you would like to hear the 3rd track of the 2nd disc and the 12th track of the 5th disc, press [PROG/DIRECT], Disc Number [2], Track Number [3], Disc Number [5], then Track Number [+10], [2]. It is not necessary to specify the disc if all the tracks in the program are from the same disc.
  If all the tracks are being selected from the same disc, all the tracks on a particular disc can be played, such as from the 1st track of the 3rd disc, all tracks of the 5th disc and the 5th track of the 5th disc.
  In this case, press [PROG/DIRECT], Disc Number [3], Track Number [1], Disc Number [5], then Disc Number [5], Track Number [5].

(2) To Check the Programmed Tracks (Remote contorol only)

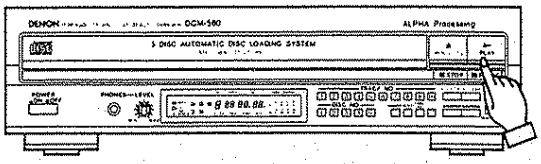
RC-239 (DCM-560) RC-246 (DCM-460)



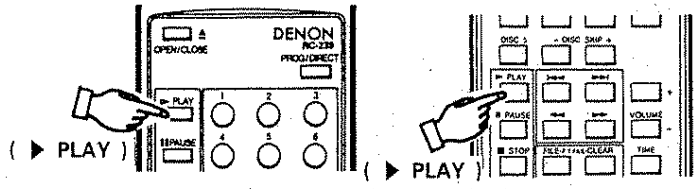


- Press the call button on the wireless remote control unit. The contents of the program are displayed in order one item at a time each time the Call button is pressed.

(3) To Play a Program



RC-239 (DCM-560) RC-246 (DCM-460)



- Press the Play (▶ PLAY) button to play the programmed selections in the order in which they were programmed.

(4) To clear the entire program

- Pressing the PROG/DIRECT button once more erases the entire program. Pressing the open/close (▲ OPEN/CLOSE) button also erases the contents of a program.
- Pressing the PROG/DIRECT button while a program is being played cancels the program. Play will then be continuous to the end of the disc currently being played, after which the player will stop automatically.

Cautions

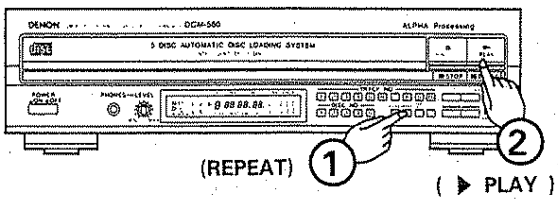
- If a program is run during playing of a track or from the Pause state, the track which is currently being played becomes the 1st track in the program.
- Additional tracks can be added to the program, but the player will not display the number of tracks in the program or the playing time.
- Direct selection cannot be done while a program is being played. Inputting the track number of a desired track with the Track Number buttons adds the input track to the end of the program.
- When programming, do not program a track number which is not recorded on the disc. If such a number is programmed by mistake, the player ignore the program.

❻ To Repeat Play of All Tracks ..... Repeat Play

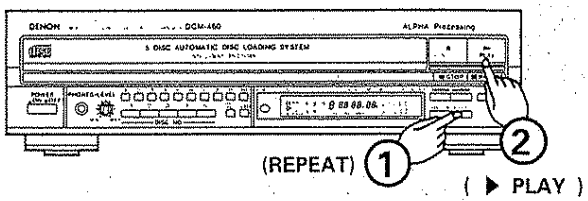
- Press the Repeat (REPEAT) button. The REPEAT indicator will light up.

* Steps ① and ② can be done in any order, with the same results.

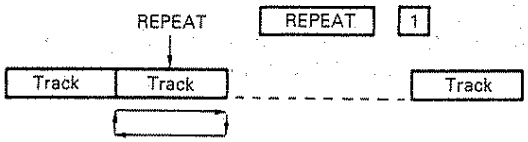
DCM-560



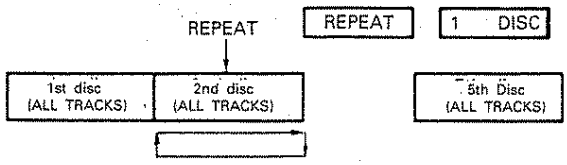
DCM-460



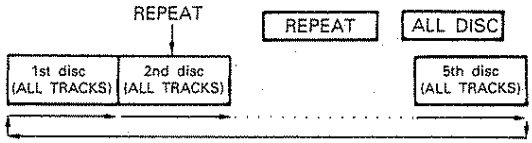
- When the repeat button is pressed once, the REPEAT and 1 indicators light. In this mode, the track currently playing is repeated.



- If the repeat button is pressed again, the REPEAT and 1 DISC indicators light, and the disc currently playing is repeated.



- If the repeat button is pressed again, the REPEAT and ALL DISC indicators light, and all the discs currently loaded are repeated.

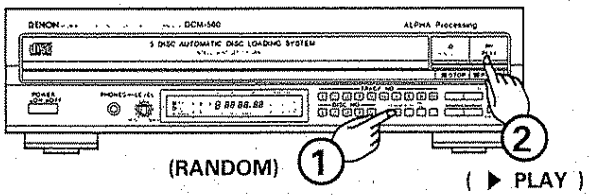


- Pressing the Repeat (REPEAT) button during play will also cause the player to repeat play (of all tracks).
- To cancel repeat play, press the Repeat (REPEAT) button once more.
- Pressing the Repeat (REPEAT) button while a program is being played will cause the tracks in the program to be played again in order.
- Pressing the Repeat (REPEAT) button during Random play will cause the tracks to be played again at random.

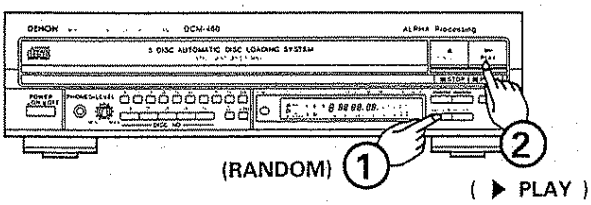
❼ Letting the Player Select the Order of Play ..... Random Play

(1) Full Random Play

DCM-560



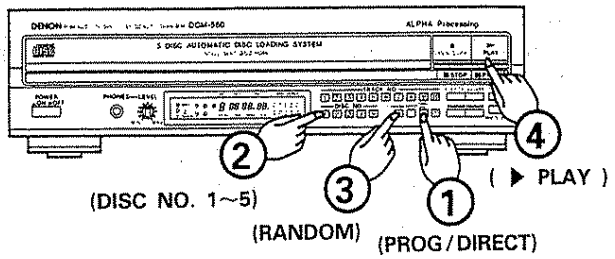
DCM-460



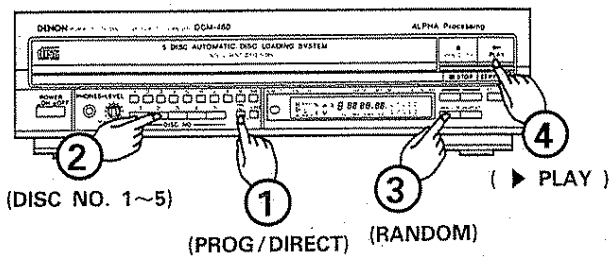
- Press the Random button, then press the Play button. The microcomputer will then start play of the tracks on the 5th disc at random.

(2) **Program Random Play**

DCM-560



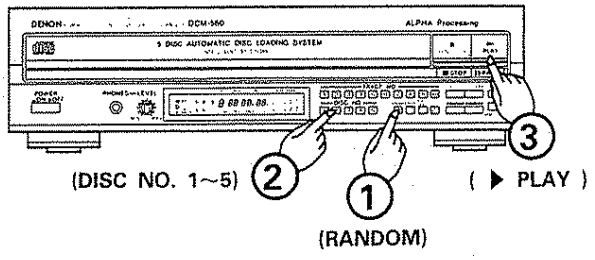
DCM-460



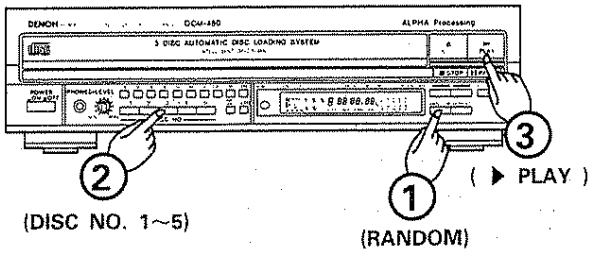
- After pressing the PROG/DIRECT button and inputting a program (See item ❺ on page 11), press the Random button, then the Play button. The microcomputer will then select tracks from the program at random and play them.

(3) **Disc Sequential Random Play**

DCM-560



DCM-460



- Press the Random button. Next press the Disc Number buttons for the discs to be played, in the desired order, then press the Play button. The microcomputer will then select tracks from the specified discs to be played at random, in the order in which the discs were selected.
  Up to 5 discs can be selected, and the same disc can be selected, two or more times. Disc sequential random play is cancelled when play ends.

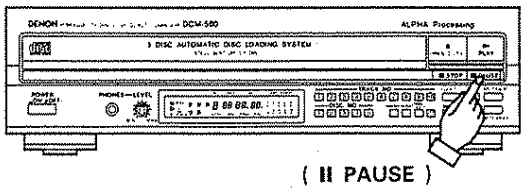
(4) **To Cancel Random Play**

Pressing the Random button once more cancels the Random function. Play will then proceed from the track currently being played to the end of the last track on the disc, then stop. Pressing the open/close (⏏ OPEN/CLOSE) button also cancels the Random function.

Cautions

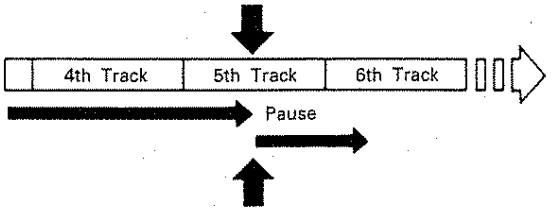
- Pressing the Random button during normal play starts full random play.
- Pressing the Random button during Program play starts random play of the tracks in the program, including the tracks which have already been played.
- During random play, the player may display the number of disc which is not loaded in the tray. In such a case, the player will read the disc information, then reset automatically to correct. This is not a malfunction.

❽ **To Stop Play Temporarily** ..... **Pause**



- Pressing the Pause button during play stops play at that point. Pressing the Pause button once more starts play again from the same point.

1 Press the Pause (PAUSE) button.



2 Press the Play (▶ PLAY) button or the Pause (⏸ PAUSE) button.

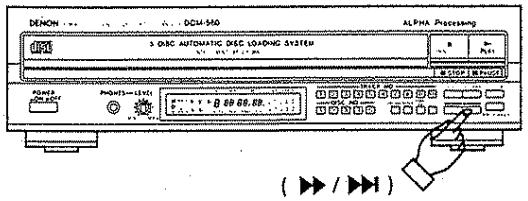
* Press the Play (▶ PLAY) button or the Pause (⏸ PAUSE) button to start play.

❾ **Audible quick search** ..... **Manual Search**

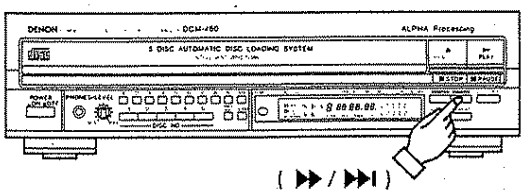
- Using this function, you can cue to a desired point within a track, either in the forward or reverse direction.
- Release the automatic/manual search button (⏮ / ◀◀ or ▶▶ / ⏭) when the desired point has been reached. Normal playback then continues.

(1) **Manual Search Forward**

DCM-560



DCM-460



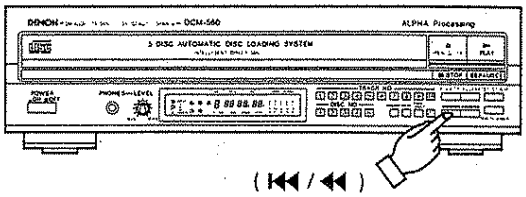
1. Keep on pressing the automatic/manual search forward button (▶▶ / ⏭) for more than 0.5 seconds during playback. Playback of the track is speed up.

- As a reference, the current track number and elapsed playback time within the track are displayed.

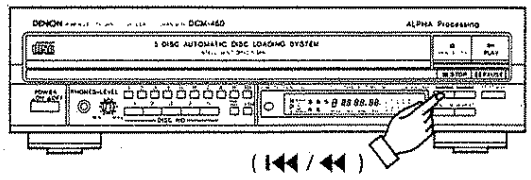
- Manual search forward is approximately three times faster when engaged during the pause state compared to playback. In this case, no sound is heard however.
- If the automatic/manual search forward button (▶▶ / ▶▶|) is kept pressed after the end of the final track on the disc is reached, (♫♫) is displayed and manual search stops. To return to another point, press the automatic/manual search reverse button (|◀◀ / ◀◀) until (♫♫) disappears.

(2) Manual Search in Reverse

DCM-560



DCM-460



1. Keep on pressing the automatic/manual search reverse button (|◀◀ / ◀◀) for more than 0.5 seconds during playback. Reverse playback of the track is speed up.

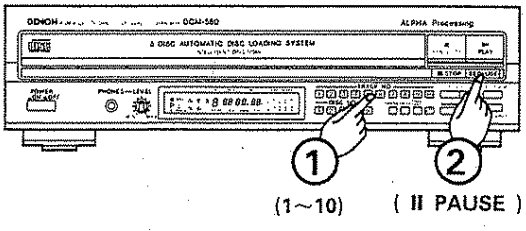
- As a reference, the current track number and elapsed playback time within the track are displayed.
- Manual search in reverse is approximately three times faster when engaged during the pause state compared to playback. In this case, no sound is heard however.
- If the automatic/manual search reverse button (|◀◀ / ◀◀) is kept pressed after the beginning of the first track on the disc is reached, (♫♫) is displayed and manual search stops. To return to another point, press the automatic/manual search forward button (▶▶ / ▶▶|) until (♫♫) disappears.

⓫ To Cue and Stop Play ..... Pause

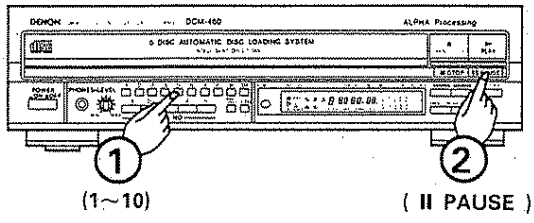
(1) Cuing by Direct Selection

- Cuing by direct selection, then entering the Pause state, is convenient for practicing vocals with background music.

DCM-560



DCM-460



1. Press the Track Number buttons to set the number of the desired track.
2. Press the Pause (II PAUSE) button.

- To start play, press the Play (▶ PLAY) button or the Pause (II PAUSE) button.

(2) Cueing by Program Selection

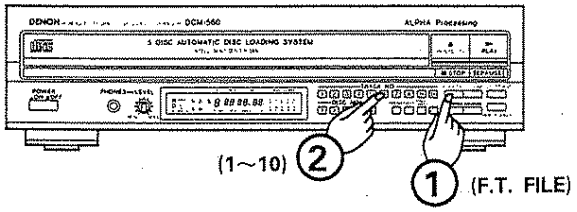
- After setting the desired track selections in a program, press the Pause (II PAUSE) button. The player will advance to the beginning of the 1st track in program memory and wait in the Pause state.

⓬ Stores your favorite tracks for each of the discs ..... Favorite Track File (F.T. FILE)

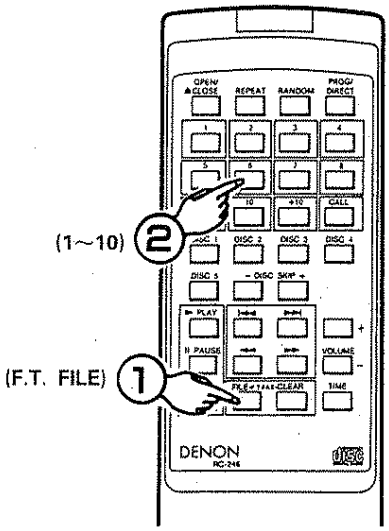
- Permits programming of the tracks you do not wish to listen to from among the tracks recorded on the disc, then skips these tracks when the disc is played.
- When these tracks are recorded to the file, the program is automatically called by setting the F.T. FILE mode, even after the disc has been changed and the power switched off.
- Up to 6 tracks can be programmed within 1 disc.
- Up to 100 discs can be recorded to file.
- The program contents are displayed on a calendar.

(1) Disc programming and recording to file

DCM-560



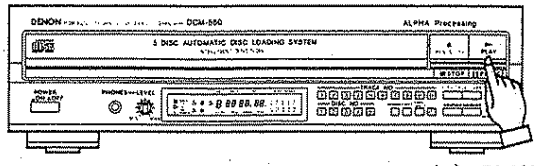
DCM-460 (Remote control only)



- Pressing the FILE button in the stopped condition will light up [F.T. FILE]. Select the tracks to be programmed using the Track Number button and the [+10] button.
  For example, to program the 3rd, 12th, and 7th tracks, press [FILE], [3], [+10], [2], and [7].
  Each time a track is specified, that track number is deleted in the calendar. The total number of tracks to be played is displayed under TRACK No. and the total play time is displayed under TIME.
- When recording the program to file, after selecting the program, press the FILE button. "FILE" will be displayed on the time display for about 1 second.

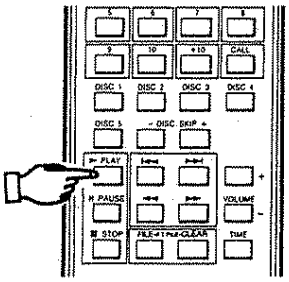
(2) Programmed Play

DCM-560



(▶ PLAY)

DCM-460 (Remote control only)

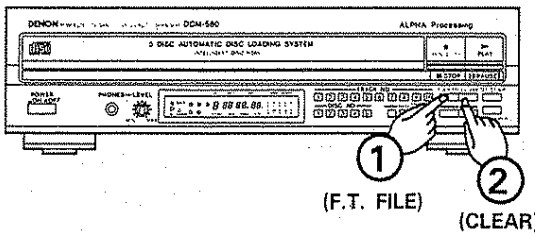


(▶ PLAY)

- Pressing the ▶ PLAY button will call the files for each of the discs to be played, then play the disc, skipping the programmed tracks.

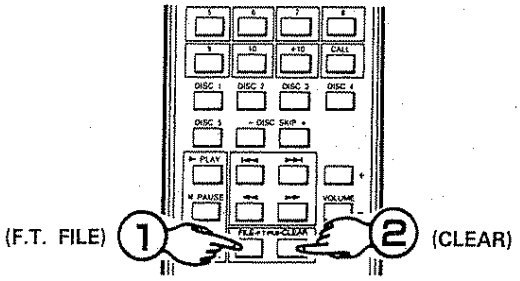
(3) To delete the programs recorded to the file

DCM-560



(F.T. FILE) ① ② (CLEAR)

DCM-460 (Remote control only)



(F.T. FILE) ① ② (CLEAR)

- Press the FILE button and press the CLEAR button while "FILE" is being displayed on the time display.
  "CLER" will be displayed on the time display for about 1 second and the program of that disc will be deleted from the file.

(4) Contents of the F.T. File DCM-460 (Remote control only)

- Up to 100 discs can be recorded to the F.T. file.
  When 100 discs have been recorded, if a new disc is loaded, the program cannot be recorded by pressing the FILE button after track selection according to the operation of Step (1). This procedure will result in "FULL" being displayed on the time display for about 1 second.
  When the program of a new disc is recorded to the file, first delete the file that has already been recorded using the operation of Step (3).

(5) To Cancel the F.T. FILE Mode

DCM-460 (Remote control only)

- Pressing the program/direct button (PROG/DIRECT) and OPEN/CLOSE button cancels the F.T. FILE mode and sets the direct mode.

CAUTION

- Pressing the Number button and the [+10] button during play provides direct track selection.
- When track selection has not been made, all recorded tracks are played.
- Can be used only when the drawer is closed.
- The remaining time display of the track is limited to the 1st through 20th tracks of the disc.
- For discs with 21 or more tracks recorded, the total time at the time of programming and the program remaining time are not displayed.
- After the program track selection, changing to a separate disc before recording to the file will result in program cancellation.
- Program calling is not possible with the CALL button in the F.T. FILE mode.
- Random play is possible in the F.T. FILE mode. In this case, disc sequential random using the F.T. FILE is set.
- When in the random mode, the F.T. FILE mode cannot be set even when the FILE button is pressed. It is also not possible to store or erase files. Set the F.T. FILE mode, program, then press the RANDOM button.

⑫ Synchronized Recording Function

..... Synchronized Recording Function

Connecting the SYNCHRO jack with a DENON cassette deck which is equipped with a SYNCHRO jack will allow synchronized recordings to be made.

- To use this function, be sure to connect the SYNCHRO jacks as well as the output terminal (LINE OUT). (See Page 8 for connections.) Then, insert a disc.
- With the CD player in the stop or pause condition, starting a synchronized recording at the cassette deck side will automatically cause the CD player to start playing. (This is synchronized play.)
- The remote control indicator of the display will blink during synchronized play.

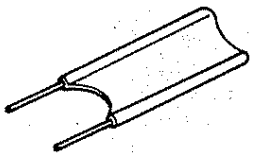
NOTE

- Synchronized play is also possible in the program mode.
- The repeat mode is cancelled when synchronized play is started.
- Except for the STOP button and OPEN/CLOSE button, the buttons will not operate during synchronized play.
- For further details, see the owner's manual for the cassette deck that has been connected.
- In the play condition, even if you start a synchronized recording at the cassette deck side, CD player will not synchronize with the cassette deck and the cassette deck becomes synchronized pause condition.
  In this case push the STOP button of the cassette deck, set the CD player in the stop or pause condition and start a synchronized recording at the cassette deck side again.

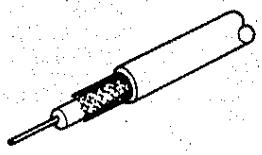
INSTALLATION PRECAUTIONS

The CD player uses a microcomputer for controlling internal electronic circuits. In the event that the player is used while a near-by tuner or TV is turned on, although unlikely, interference could occur either in the sound from the tuner or the picture of the TV. To avoid this, please take the following precautions.

- Keep the CD player as far away from the tuner or TV set as possible.
- Keep the power cable and connecting cable of the CD player separate from the antenna wires of the tuner and TV.
- Interference is particular likely to occur when an indoor antenna or a 300 Ω/ohm feeder cable is used. Thus, use of an outdoor antenna and 75 Ω/ohm coaxial cable is strongly recommended.



300 Ω/ohm feeder cable



75 Ω/ohm coaxial cable

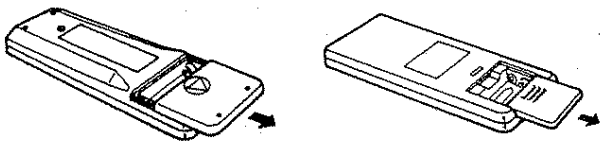
PLAY USING THE REMOTE CONTROL UNIT

The DCM-560/460 CD Player can be controlled from across the room using the accessory Remote Control Unit.

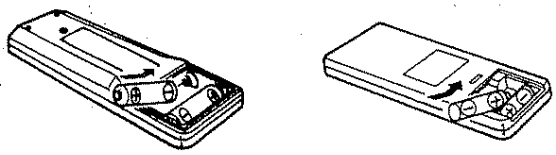
(1) Inserting the Dry Battery

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

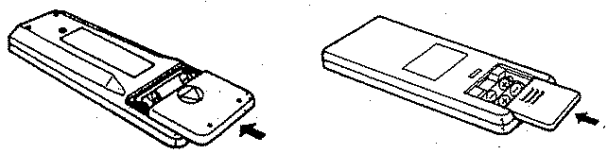
RC-239 (DCM-560) **RC-246 (DCM-460)**



2. Insert two R6P (AA size) batteries in the RC-239 (DCM-560), two R03 (AAA size) batteries in the RC-246 (DCM-460), following the indications on the battery compartment.



3. Replace the cover on the back of the remote control unit.

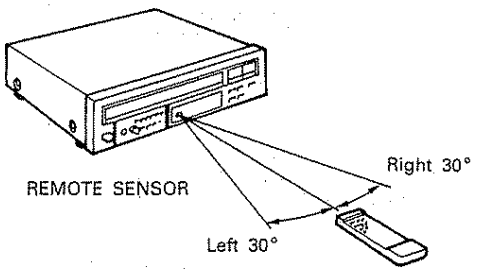


Cautions Concerning Dry Batteries

- Use R6P batteries in the RC-239 remote control unit, R03 batteries in the RC-246 remote control unit.
- Depending on the frequency of use, the dry batteries should be replaced approximately once per year.
- If the remote control unit fails to control the CD Player, even before a year has passed, replace the dry batteries with new ones.
- Be sure to follow polarity indications inside the case of the remote control unit, inserting the + end and – end of each battery in the directions indicated.
- Batteries may become damaged or leak under the following conditions.
  * Using new batteries together with old ones.
  * Using different types of batteries together.
  * Do not short batteries, take them apart, subject them to heat or throw them into a fire.
- When the remote control unit is not used for a long period of time, remove the dry batteries.
- If fluid leaks from the batteries, be sure to wipe up all battery fluid inside the battery case and replace the batteries with new ones.

(2) Using the Remote Control Unit

- Aim the remote control unit toward the light receptor in the front of the CD Player, as shown in the drawing below.
- The remote control unit can be used up to a distance of 8 meters in a straight line from the CD Player. However, this distance will be shortened if there is some obstruction between the remote control unit and the light receptor, or if the beam of light is slanted.



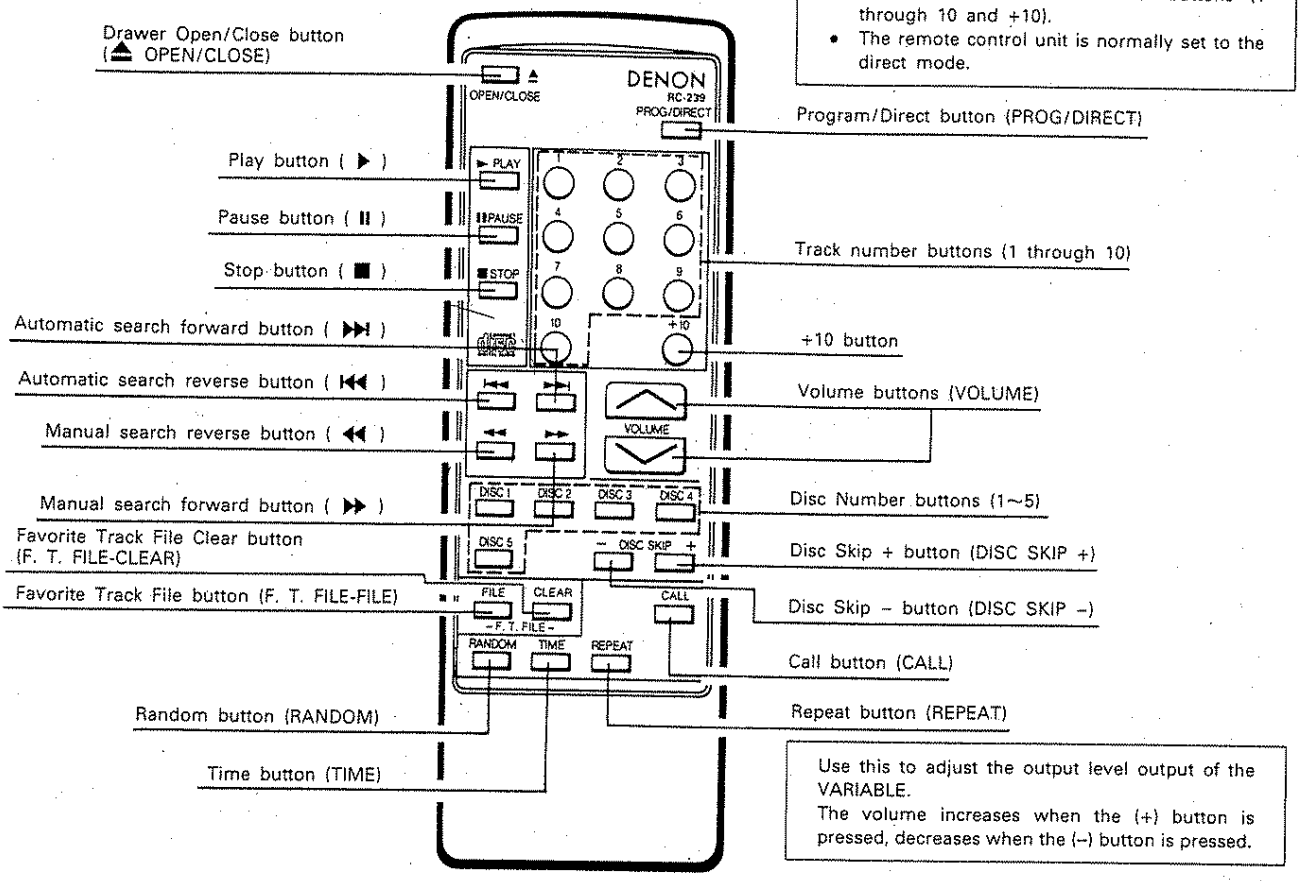
- The remote control unit has the same functions as the main unit, but the following operations cannot be done.
  1. Switching the power on and off.
  2. Adjusting headphone volume.

Cautions During Use

- Do not press the operating buttons on the main unit and the remote control unit at the same time. This could cause a malfunction.
- Operation of the remote control unit will be hindered if a strong light from the sun or a light fixture is shining on the REMOTE SENSOR, or if there is an obstruction between the remote control unit and the CD player unit.

REMOTE CONTROL UNIT RC-239 (DCM-560)

Setting to the Program Mode
- For program search, press the PROG/DIRECT button then the track number buttons (1 through 10 and +10).
- The remote control unit is normally set to the direct mode.



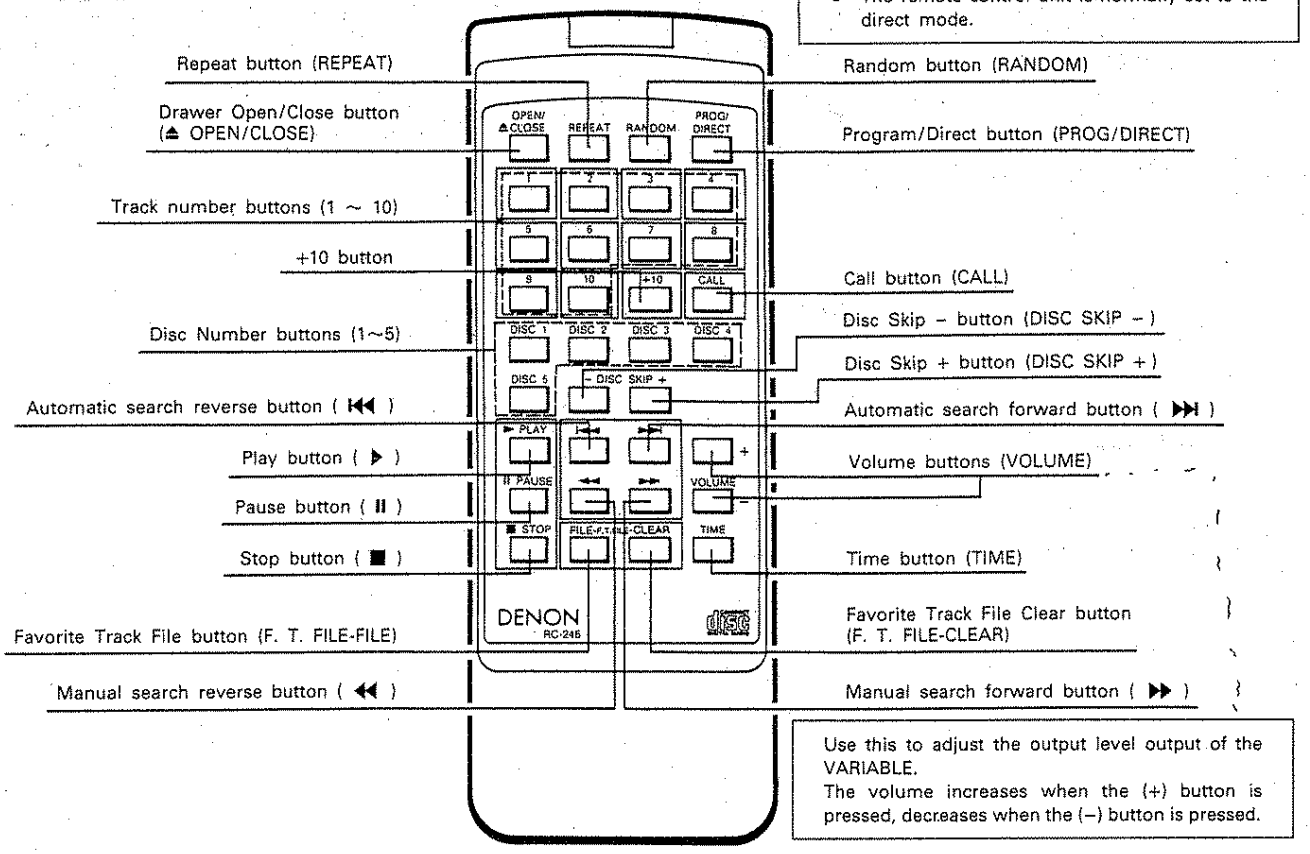
Use this to adjust the output level output of the VARIABLE.
The volume increases when the (+) button is pressed, decreases when the (–) button is pressed.

- **Direct Selection**
  Normally, direct search is possible simply by pressing the desired number buttons.
- **Program Selection (During playback, the track which is currently playing is programmed as the 1st track.)**
  Press the PROG/DIRECT button, then press the number buttons.
  For example, to program tracks number 3, 11, and 5, press PROG/DIRECT → 3 → +10 and 1 → 5.
  To cancel the program, press the PROG/DIRECT button.
- **Skipping Discs**
  The Disc Skip button (DISC SKIP +, –) will not function in the random and program modes.
  During disc sequential random playback, when the Disc Skip + button is pressed, the following disc is played in random order.
- **Inputting the Track Numbers**
  For track numbers below 10, simply press the corresponding button. For track numbers of 11 and greater, press the +10 then the number buttons.
  For example, for track number 22 press +10 twice then 2.
- **Volume**
  The volume control on the unit will operate when the volume buttons are pressed. The volume can be checked by looking at the position of the control.

- The Time indicator indicates the amount of elapsed time for the track currently being played, the amount of time remaining for the current track and the amount of time remaining for all tracks yet to be played.
  Normally, the amount of elapsed time for the current track is displayed. Pressing this button once causes the [SINGLE] indicator to light up, displaying the amount of time remaining for the current track. Pressing the button once more turns the [SINGLE] indicator off and causes the [TOTAL] indicator to light up, displaying the time remaining for all tracks yet to be played on the disc. Pressing the button once again turns the [TOTAL] indicator off and causes the indicator to display the elapsed time for the current track.
- During playback, the total remaining time is the remaining time for the disc. For programmed playback, the remaining time for the program is only displayed when the programmed tracks are all on the same disc.
  In the case of 21st and subsequent tracks, the time remaining for one track is displayed "----". When 21st and subsequent tracks is programmed, the time remaining for all tracks is displayed "----".
  "----" is displayed when tracks on more than one disc are programmed.

REMOTE CONTROL UNIT RC-246 (DCM-460)

Setting to the Program Mode
- For program search, press the PROG/DIRECT button then the track number buttons (1 through 10 and +10).
- The remote control unit is normally set to the direct mode.



Use this to adjust the output level output of the VARIABLE.
The volume increases when the (+) button is pressed, decreases when the (–) button is pressed.

- **Direct Selection**
  Normally, direct search is possible simply by pressing the desired number buttons.
- **Program Selection (During playback, the track which is currently playing is programmed as the 1st track.)**
  Press the PROG/DIRECT button, then press the number buttons.
  For example, to program tracks number 3, 11, and 5, press PROG/DIRECT → 3 → +10 and 1 → 5.
  To cancel the program, press the PROG/DIRECT button.
- **Inputting the Track Numbers**
  For track numbers below 10, simply press the corresponding button. For track numbers of 11 and greater, press the +10 then the number buttons.
  For example, for track number 22 press +10 twice then 2.
- **Volume**
  The volume control on the unit will operate when the volume buttons are pressed. The volume can be checked by looking at the position of the control.

- **Skipping Discs**
  The Disc Skip button (DISC SKIP +, –) will not function in the random and program modes.
  During disc sequential random playback, when the Disc Skip + button is pressed, the following disc is played in random order.

- **Volume**
  The output level of the VARIABLE output terminal can be changed.
  When the volume button is pressed, " – " appears in the TIME M (minutes) section of the display window and the level appears in the S (seconds) section. The volume can be changed between a maximum of "0" and a minimum of "–50" in 50 steps, by approximately 1.5 dB per step.

- The Time indicator indicates the amount of elapsed time for the track currently being played, the amount of time remaining for the current track and the amount of time remaining for all tracks yet to be played.
  Normally, the amount of elapsed time for the current track is displayed. Pressing this button once causes the [SINGLE] indicator to light up, displaying the amount of time remaining for the current track. Pressing the button once more turns the [SINGLE] indicator off and causes the [TOTAL] indicator to light up, displaying the time remaining for all tracks yet to be played on the disc. Pressing the button once again turns the [TOTAL] indicator off and causes the indicator to display the elapsed time for the current track.
- During playback, the total remaining time is the remaining time for the disc. For programmed playback, the remaining time for the program is only displayed when the programmed tracks are all on the same disc.
  In the case of 21st and subsequent tracks, the time remaining for one track is displayed "----". When 21st and subsequent tracks is programmed, the time remaining for all tracks is displayed "----".
  "----" is displayed when tracks on more than one disc are programmed.

COMPACT DISCS

1. **Cautions in Handling Compact Discs**
   - Do not get fingerprints, oil, dirt or other substances on the compact disc. If the disc becomes dirty, wipe it off with a dry, soft cloth.
   - Do not clean compact discs with benzene, paint thinner, water, record spray, anti-static agent, silicon cloth or similar substances.
   - Take particular care to prevent scratches to the back side of the compact disc when removing it from the case and when inserting it in its case.
   - Do not bend compact discs.
   - Do not apply to compact discs.
   - Do not attempt to enlarge the center hole of the disc.
   - Do not write on the label (printed) side of the disc with a ball point pen or pencil.
   - Bringing a CD into a warm room from a cold place could cause moisture to condense on the disc surface. Do not attempt to dry the disc with a hair dryer, etc.

2. **Storage of Compact Discs**
   - After play, be sure to remove the disc from the player.
   - To prevent dust, scratches, deformation, etc., be sure to store compact discs in their case.
   - Do not store compact discs in the following locations.
     1. Places where direct sunlight strikes for long periods of time.
     2. Places with a high humidity or a lot of dust.
     3. Places reached by heat from a heater or similar appliance.

TROUBLE? CHECK THE PLAYER TO FIND WHAT'S WRONG

Even when it appears that there is trouble, check the following points carefully.

The drawer won't open / close when the Open / Close button is pressed.
- Is the Power switch on?

After a disc is loaded (0 00 00_M 00_S) is displayed in the display window.
- Is the disc loaded correctly? ..... See page 9, 10, 19.

Play does not begin when the Play button is pressed.
- Is the disc dirty or scratched? ..... See page 19.

There is no sound, or the sound is distorted.
- Is the output cord connected correctly to the amplifier? ..... See page 8.
- Does the sound return to normal when the amplifier's knobs are adjusted or the proper input device is selected?

The player won't go to the place specified in the search.
- Is the disc dirty or scratched? ..... See page 19.

A program cannot be played.
- Is the method used to make a program and run it correct? ..... See page 11.

The player won't operate correctly when the remote control unit is used.
- Are the dry batteries in the remote control unit dead? ..... See page 16.
- Is the remote control unit located too far from the CD Player unit? ..... See page 16.

SPECIFICATIONS

	DCM-560	DCM-460
AUDIO		
Number of Channels	2 Channels	
Frequency Characteristics	4 ~ 20,000 Hz	
Dynamic Range	100 dB	100 dB
S N Ratio	113 dB	110 dB
High Frequency Distortion	0.002% (1kHz)	0.0025%
Separation	102 dB (1kHz)	100 dB
Wow and Flutter	Less than the measuring (+0.001% W. peak)	
Output Voltage	2.0 V, Variable 0 ~ 2.0V	
DISC USED	Audio compact discs are used 12 cm (5 in) and 8 cm (3 in)	
OVERALL		
Power Supply	Show on rating label	
Power Consumption	Show on rating label	
External Dimensions	434 (W) × 114 (H) × 388 (D) mm (17-3/32" × 4-17/32" × 15-9/32")	
Weight	6.2 kg (13 lbs 13 oz)	5.7 kg (13 lbs)

FUNCTIONS AND DISPLAY

Functions	Five discs can be used, Direct Track Selection, Program Selection, Random Play, etc.
Displays	Disc No., Track No., Time (min., sec.), Play, Pause, Repeat, Random, etc.
Other	Headphone Jack (Level Variable)

REMOTE CONTROL UNIT RC-239 (DCM-560)

Remote Control Method	Infrared Pulse system
Power Supply	3 V DC Two R6P (standard SIZE AA)
External Dimensions	60 (W) × 177 (H) × 18 (D) mm (2-23/64" × 6-31/32" × 45/64")
Weight	100g (approx. 3 oz) (Includes batteries)

REMOTE CONTROL UNIT RC-246 (DCM-460)

Remote Control Method	Infrared Pulse system
Power Supply	3 V DC Two R03 (standard SIZE AAA)
External Dimensions	60 (W) × 160 (H) × 16 (D) mm (2-23/64" × 6-19/64" × 5/8")
Weight	100g (approx. 3 oz) (Includes batteries)

* Design and specifications are subject to change without notice in the course of product improvement.