

DENON

CD PLAYER

雷射唱盤

DN-2000FLTD

OPERATING INSTRUCTIONS

BEDIENUNGSANLEITUNG

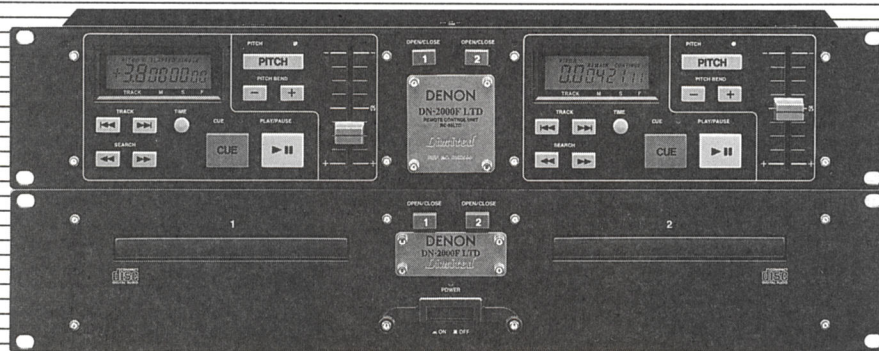
MODE D'EMPLOI

INSTRUCCIONES DE OPERACION

GEBRUIKSAANWIJZING

BRUKSANVISNING

操作說明書



FOR ENGLISH READERS

FÜR DEUTSCHE LESER

POUR LES LECTEURS FRANCAIS

PARA LECTORES DE ESPAÑOL

VOOR NEDERLANDSTALIGE LEZERS

FÖR SVENSKA LÄSARE

中文

PAGE 6 ~ PAGE 18

SEITE 19 ~ SEITE 31

PAGE 32 ~ PAGE 44

PAGINA 45 ~ PAGINA 57

PAGINA 58 ~ PAGINA 70

SIDA 71 ~ SIDA 83

84 頁 ~ 98 頁

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. DN-2000FLT0

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) instructions in the literature accompanying the appliance.

• 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.

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 5°C (41°F) – 35°C (95°F).

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

CERTIFICATION

THIS PRODUCT COMPLIES WITH DHHS RULES 21CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR REFORMANCE 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:

- Turn the other unit to improve reception
- Move this unit
- Move this unit away from others
- Plug this unit respectively into a different AC outlet

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

**"CLASS 1
LASER PRODUCT"**

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING- OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.



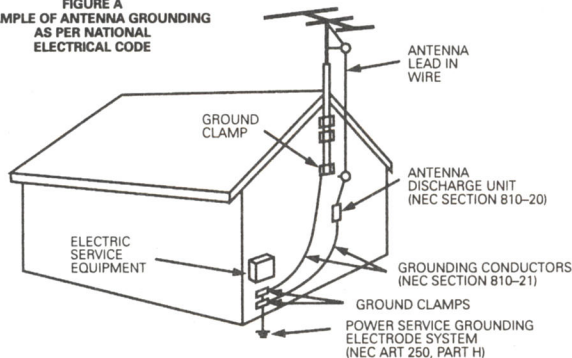
SAFETY INSTRUCTIONS

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.



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.

FIGURE A
EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL
ELECTRICAL CODE



— CONTENTS —

	Page
[1] MAIN FEATURES	7
Describes the features and operating precautions for the DN-2000FLTD.	
Be sure to read this section before use.	
[2] PREPARATION	7
Check the Contents	7
[3] DESCRIPTION OF THE FUNCTIONS	8
Describes in detail the names of the various parts and functions of the main unit and remote control unit.	
(1) Names and Functions of the Parts of the Main Unit	8
(2) Names and Functions of the Parts of the Remote Control Unit	8
[4] BASIC OPERATION	9~15
Describes the operations necessary when using the unit for mixing.	
(1) Loading and Ejecting the Disc	9
(2) Selecting Tracks	9
(3) SINGLE/CONTINUE Play Mode Selection	9
(4) ELAPSED/REMAIN Time Display Mode Selection	9
(5) Starting Play	10
(6) Stopping Play	10
(7) Description of the PLAY/PAUSE, and CUE Operations	11
(8) Matching the Beat Per Minute	12
(9) Displaying the Pitch	12
(10) Beat Matching Using Pitch Bend	13
(11) Moving the Play Start Position	13, 14
(12) Checking the Play Start Position	14, 15
[5] PRESET FUNCTIONS	15, 16
(1) Starting the Preset Data Change Mode	15
(2) Selecting the Item Number	15
(3) Changing the Preset Data	15
(4) Initializing the Preset Data	15
(5) Exiting the Preset Data Change Mode	15
(6) Table of Preset Functions	16
[6] BEFORE SWITCHING OFF THE POWER	17
[7] COMPACT DISCS	17
[8] CLEANING THE OPTICAL PICK-UP LENS	17
[9] SPECIFICATIONS	18

CAUTION:

Whenever the power switch is in the OFF state, the apparatus is still connected on AC line voltage.
Please be sure to unplug the cord when you leave home for, say, a vacation.

Be sure turn on POWER switch after a Remote cable of RC-35LTD is connected to the Player unit, otherwise, the apparatus may not work correctly.

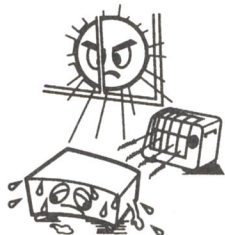
● **DECLARATION OF CONFORMITY**

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN55013, EN55020, EN60555-2 and EN60555-3.

Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.

**NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION
NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA
OBSERVAÇÕES QUANTO AO USO**



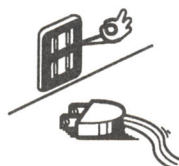
- Avoid high temperatures
Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen
Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées
Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evitate di esporre l'unità a temperature alte.
Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.
- Evite altas temperaturas
Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Vermijd hoge temperaturen.
Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst.
- Undvik höga temperaturer.
Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.
- Evite temperaturas altas
Conceda suficiente dispersão de calor quando o equipamento for instalado numa prateleira.



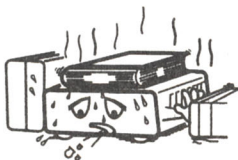
- Handle the power cord carefully.
Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
Tenir la prise lors du débranchement du cordon.
- Maneggiare il filo di alimentazione con cura.
Agitare per la spina quando scollegate il cavo dalla presa.
- Maneje el cordón de energía con cuidado.
Sostenga el enchufe cuando desconecte el cordón de energía.
- Hanteer het netsnoer voorzichtig.
Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nätkabeln varsamt.
Håll i kabeln när den kopplas från el-uttaget.
- Manuseie com cuidado o fio condutor de energia.
Segure a tomada ao desconectar o fio.



- Keep the set free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Utsätt inte apparaten för fukt, vatten och damm.
- Mantenha o aparelho livre de qualquer umidade, água ou poeira.

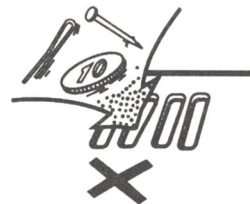


- Unplug the power cord when not using the set for long periods of time.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.
- Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid.
- Desligue o fio condutor de força quando o aparelho não tiver que ser usado por um longo período.



*(For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- Ne pas obstruer les trous d'aération.
- Non coprire i fori di ventilazione.
- No obstruya los orificios de ventilación.
- De ventilatieopeningen mogen niet worden geblokkeerd.
- Tåp inte till ventilationsöppningarna.
- Não obstrua os orifícios de ventilação.



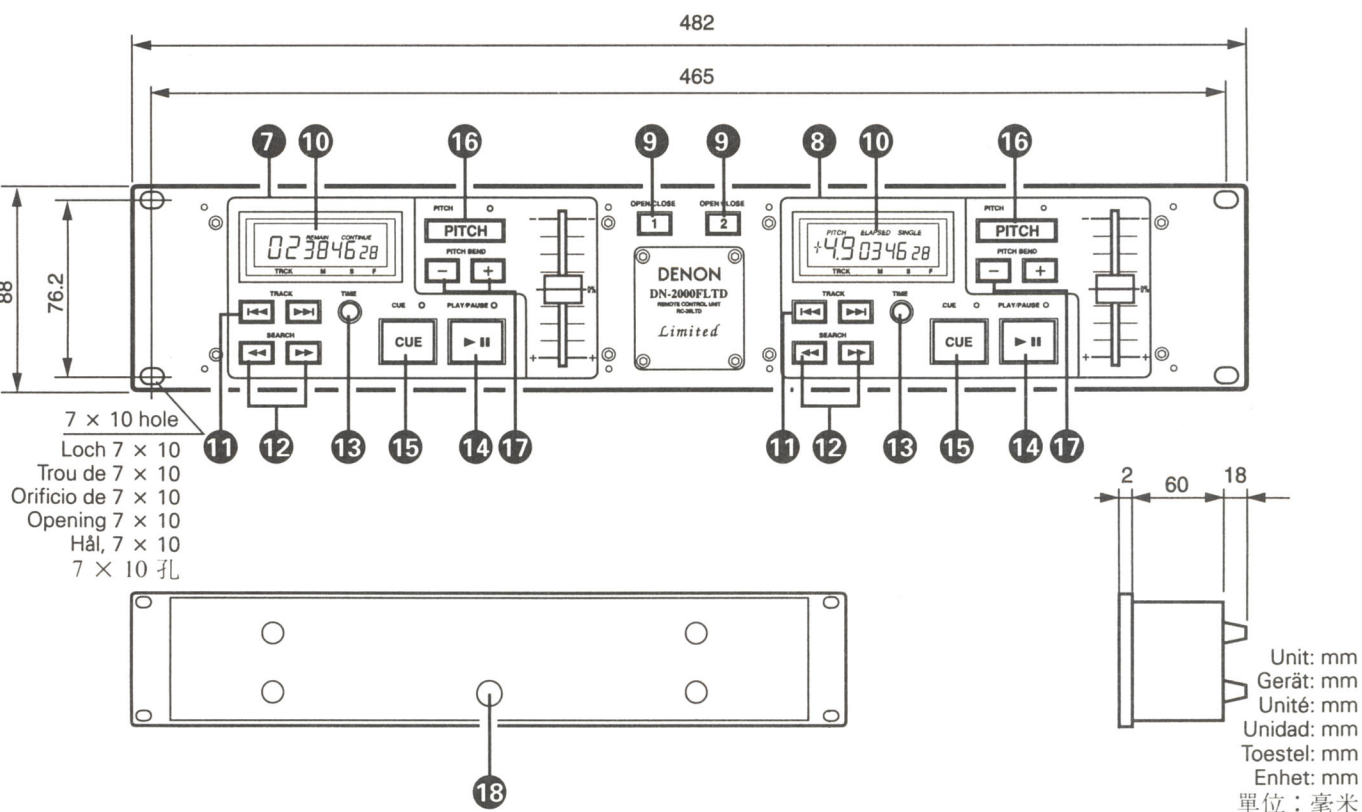
- Do not let foreign objects in the set.
- Keine fremden Gegenstände in das Gerät kommen lassen.
- Ne pas laisser des objets étrangers dans l'appareil.
- E' importante che nessun oggetto è inserito all'interno dell'unità.
- No deje objetos extraños dentro del equipo.
- Laat geen vreemde voorwerpen in dit apparaat vallen.
- Se till att främmande föremål inte tränger in i apparaten.
- Não deixe objetos estranhos no aparelho.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Assicuratevi che l'unità non venga in contatto con insetticidi, benzolo o solventi.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.
- Laat geen insectenverdelgende middelen, benzine of verfverdunder met dit apparaat in contact komen.
- Se till att inte insektsmedel på spraybruk, benzen och thinner kommer i kontakt med apparatens hölje.
- Não permita que inseticidas, benzina e dissolvente entrem em contacto com o aparelho.



- Never disassemble or modify the set in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Non smontate mai, nè modificate l'unità in nessun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Nooit dit apparaat demonteren of op andere wijze modificeren.
- Ta inte isär apparaten och försök inte bygga om den.
- Nunca desmonte ou modifique o aparelho de alguma forma.



1 MAIN FEATURES

The DN-2000FLTD is a double CD player which provides excellent performance as well as a variety of functions ideal for DJ mixing. The unit can be mounted in a standard 19-inch rack.

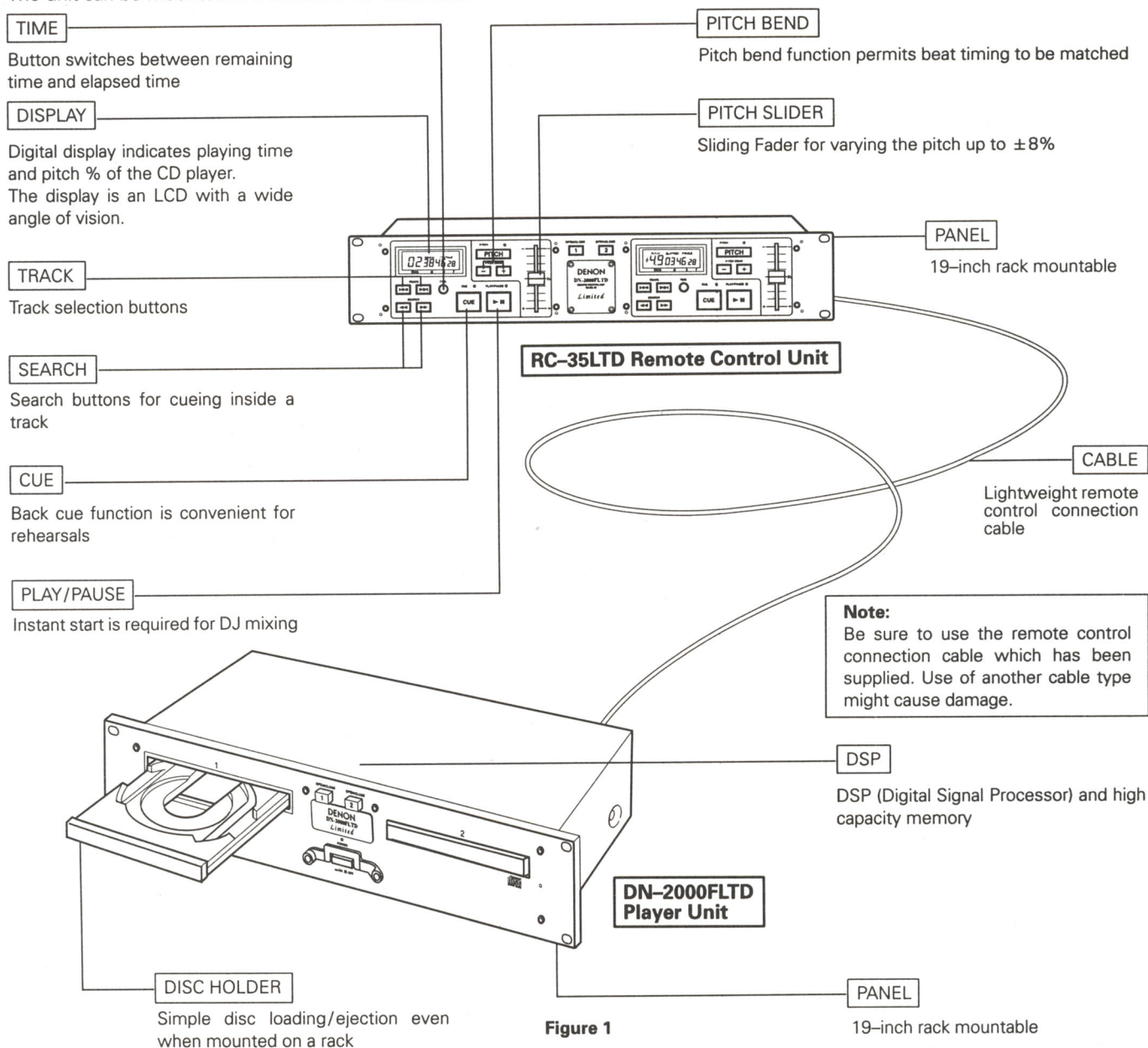


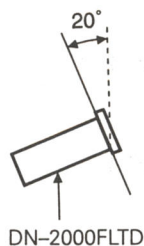
Figure 1

2 PREPARATION

Check the Contents

Check that the carton contains the following items in addition to the main unit.

- ① Operating instructions 1
- ② Connection cords for signal output (RCA) 2
- ③ Remote control unit (RC-35LTD) 1
- ④ Remote control connection cable 1
- ⑤ Preset sheet 1
- ⑥ Certificate card 1



The DN-2000FLTD will work normally when the player unit is mounted within 20 degrees off the vertical plane at the front panel. If the unit is tilted excessively, the disc may not be loaded or unloaded properly.

3 DESCRIPTION OF THE FUNCTIONS

Below is a description of the names of the various parts and the functions of the main unit.

(1) Names and Functions of the Parts of the Main Unit

- 1 POWER (Power Switch)**
Switches the power of the main unit and the remote control on and off.
Power indicator **2** is lit when the power is on.
- 2 POWER (Power Indicator)**
Lights up red when power switch **1** is on.
- 3 Disc Holder**
The disc is placed on this holder. Pressing the disc holder open/close buttons **4** will open and close each of the holders.
When loading the CD, place it securely in the disc holder.
- 4 OPEN/CLOSE (Disc Holder Open/Close Button)**
Press to load or eject the disc. Each press will open or close the disc holder **3**.
The remote control is also equipped with similar buttons.
- 5 REMOTE (Remote Control Connector)**
This connector accepts the cable which connects to the remote control unit RC-35LTD. Insert the plug securely as far as it will advance.
- 6 LINE OUT (Output Jacks)**
The audio from each CD player is output from these jacks. Connect to the line input of the mixer.
Red is for the right channel and white, the left channel.

(2) Names and Functions of the Parts of the Remote Control Unit

- 7 CD-1 Remote Control Operation Panel**
This operation panel remotely controls the main unit CD-1.
- 8 CD-2 Remote Control Operation Panel**
This operation panel remotely controls the main unit CD-2.
- 9 OPEN/CLOSE (Disc Holder Open / Close Button)**
Press to load or eject the disc. Each press will open or close the disc holder **3**.
- 10 Time Display**
This display shows the track number, time (minutes, seconds and frames), pitch mode, single or continuous play mode, and elapsed or remaining time. Each frame represents 1/75 of a second.
- 11 TRACK (Track Button)**
This button selects the track to be played.
- 12 SEARCH (Search Buttons)**
These buttons are used to accurately change the positions where disc play will start.
- 13 TIME (Time Button)**
The TIME button switches the time display between elapsed time and remaining time. ELAPSED or REMAIN will be shown on the display.
- 14 PLAY / PAUSE (Play / Pause Button)**
Each press of the PLAY/PAUSE button causes the operation to change from play to pause or from pause back to play.
- 15 CUE (Cue Button)**
Pressing the CUE button during play provides a return to the position at which play was started. Alternately pressing the PLAY/PAUSE button and the CUE button allows the CD to be played from the same position any number of times.
The red CUE LED will blink from the time the CUE button is pressed until the CD has reset to the position at which play was started. Steady lighting of this LED indicates the ready condition.
- 16 PITCH (Pitch Button)**
This button changes the play speed.
The pitch can be changed up to $\pm 8\%$ by pressing the PITCH button so the green PITCH LED is lit, then moving the sliding fader.
The pitch will not be changed if the green PITCH LED is off.
- 17 PITCH BEND (Pitch Bend Button)**
When each of the two CD players are playing a CD, the pitch bend function allows the positioning of the bass beats to be matched after the pitch has been matched.
The pitch will automatically rise while the + button is pressed and return to the original pitch when the button is released.
The pitch will drop while the - button is pressed.
By changing the pitch in this way, the positioning of the beats can be matched.
- 18 REMOTE (Remote Control Connector)**
This connector accepts the cable which connects to the main unit. Insert the plug securely as possible.

Note:

When the TIME button is pressed for more than 2 seconds while the track number is displayed on the TRACK display, the pitch % appears on the TRACK display.
When the TIME button is pressed for more than 2 seconds while the pitch is displayed on the TRACK display, the track number appears.

4 BASIC OPERATION

(1) Loading and Ejecting the Disc

- ① Open the disc holder
When the disc holder is closed, press the OPEN/CLOSE button to open the disc holder.
- ② Place a disc in the disc holder

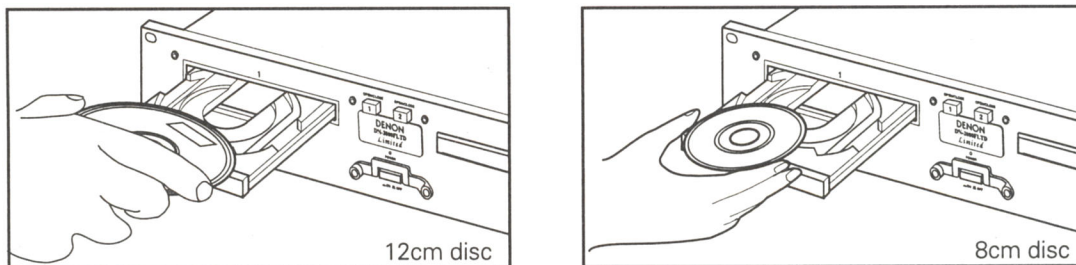


Figure 2

- ③ Loading the disc
Press the OPEN/CLOSE button to close the disc holder.
 - A press of the PLAY/PAUSE button will close the disc holder and start playback.
 - When a track is selected while the disc holder is open, the unit will access the selected track.

(2) Selecting Tracks

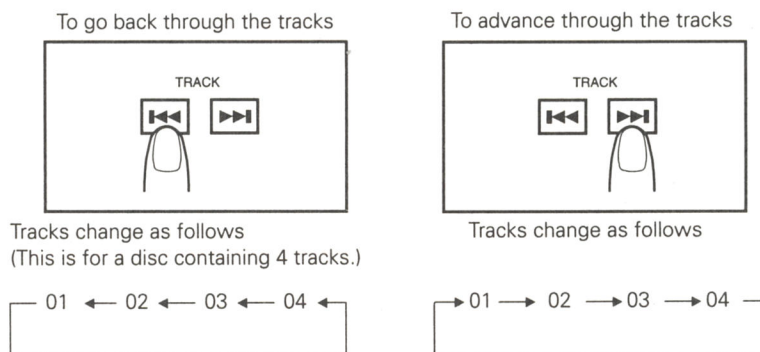


Figure 3

Each press of the TRACK button changes 1 track.

Continuing to hold the TRACK button down provides an automatic change at a higher speed which is convenient for discs that contain many tracks.



During the track selection operation, the track indication of the display will blink and the M S F indication will be off.

When a new track is selected during play, after the selection operation is completed, play will immediately start from the beginning of the newly selected track.

The track number can be selected before loading a disc on the player unit.

You can select a track to play on the controller, then load a disc. The player will cue up to your selected track automatically.

(3) SINGLE/CONTINUE Play Mode Selection

- Press the TIME and  buttons of PITCH BEND simultaneously to set the player for SINGLE track playback mode, "SINGLE" is displayed.
During single playback mode, the player stops after a specified track is played back, and the disc is cued to the playback start position.
- Press the TIME and  buttons of PITCH BEND simultaneously to set the player for continuous playback mode, "CONTINUE" is displayed.
During continuous playback mode, the player continue playback until completion of playback of the last track on the disc. When playback is finished, the disc is cued to the playback start position.

(4) ELAPSED/REMAIN Time Display Mode Selection

The time display switches each time the TIME button is pressed (for less than 2 seconds).

When "ELAPSED" is lit: The track's elapsed time is displayed.

When "REMAIN" is lit: The track's remaining time is displayed.

(5) Starting Play

Pressing the PLAY/PAUSE button during the pause condition or after the completion of back cue will start disc play.

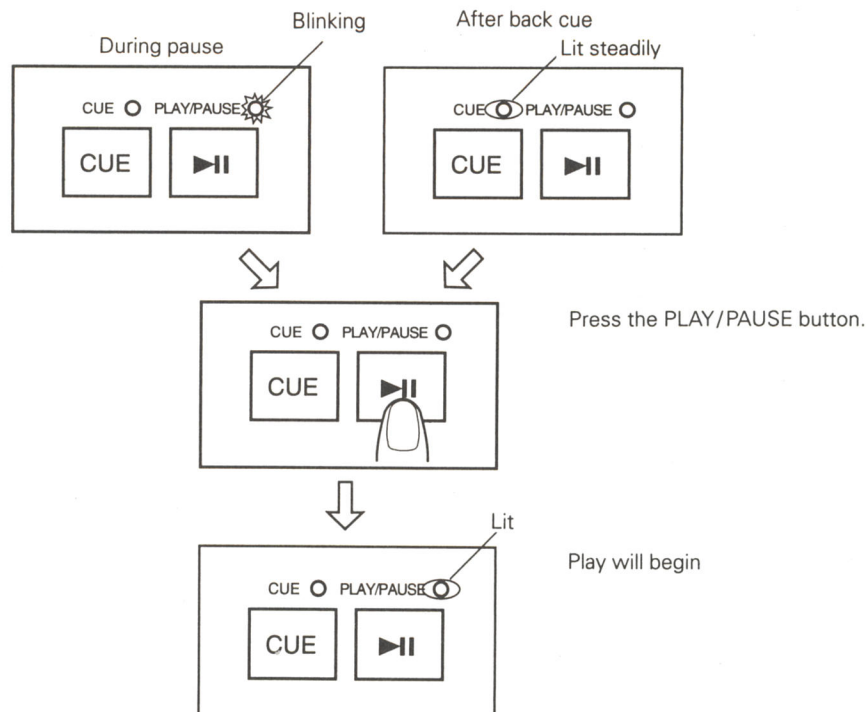
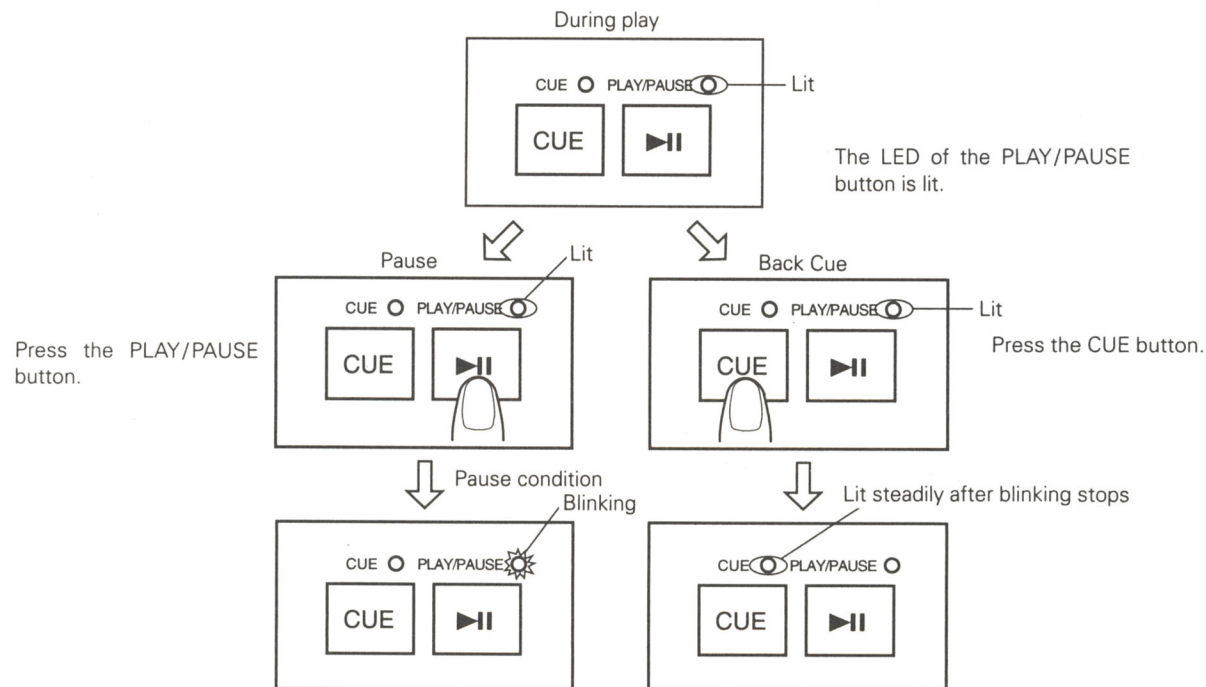


Figure 4

(6) Stopping Play

There are two ways of stopping play. One using the pause function and the other the back cue function.



The LED of the PLAY/PAUSE button blinks.
(The CD pauses at the position where the PLAY/PAUSE button was pressed during play.)

Back cue operation.
First the LED of the CUE button blinks, then it lights steadily after the operation is completed.
(The CD returns to the position where play back started from.)

Figure 5

(7) Description of the PLAY / PAUSE, and CUE Operations

- Each press of the PLAY/PAUSE button causes the operation to change from play to pause or from pause back to play.
- The play operation of this CD player is performed via DSP (Digital Signal Processor) and memory, so the audio starts instantly after the PLAY/PAUSE button is pressed.
- Pressing the CUE button during disc play resets the CD to the position at which play was started. (This is called the back cue function.)
- When the CUE button is pressed after setting the track number with the disc holder open, the disc holder automatically closes and the set track is cued.

In the same way, when the PLAY button is pressed after setting the track number with the disc holder open, the disc holder automatically closes and playback of the set track begins.

The steps through which disc play is performed when the PLAY/PAUSE and CUE buttons are pressed are described with the aid of the following illustrations in Figures 6 through 8.

PLAY and PAUSE

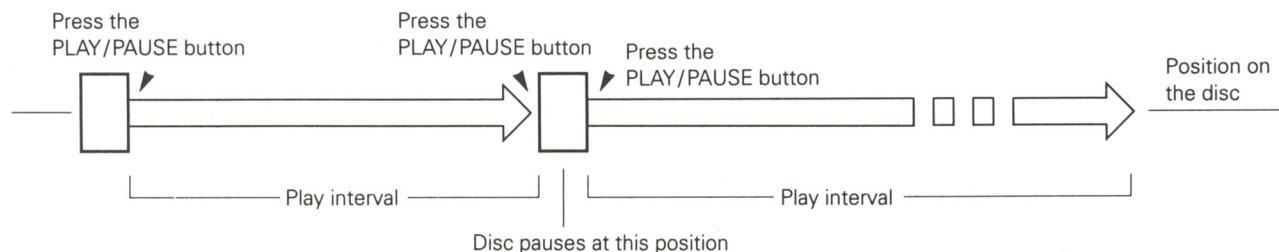


Figure 6

Pressing the PLAY/PAUSE button starts the disc play, the advancement of which is illustrated by the arrows of Figure 6. Pressing the PLAY/PAUSE button again during disc play causes the play operation to pause, and pressing this button once more causes the disc to be played again.

PLAY and CUE

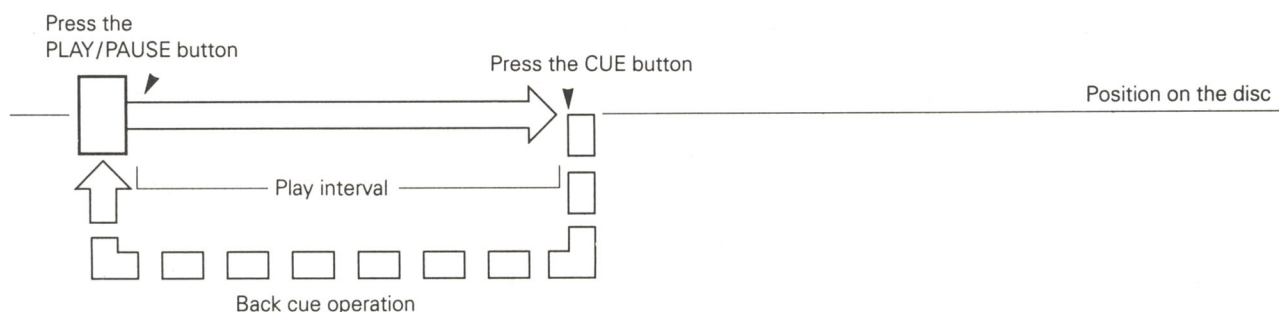


Figure 7

Pressing the PLAY/PAUSE button starts the disc. Pressing the CUE button will reset the disc to the position where play was started. By alternately pressing the PLAY/PAUSE button and the CUE button, the disc may be played from the same position any number of times. This function is called back cue.

PLAY, PAUSE, and CUE

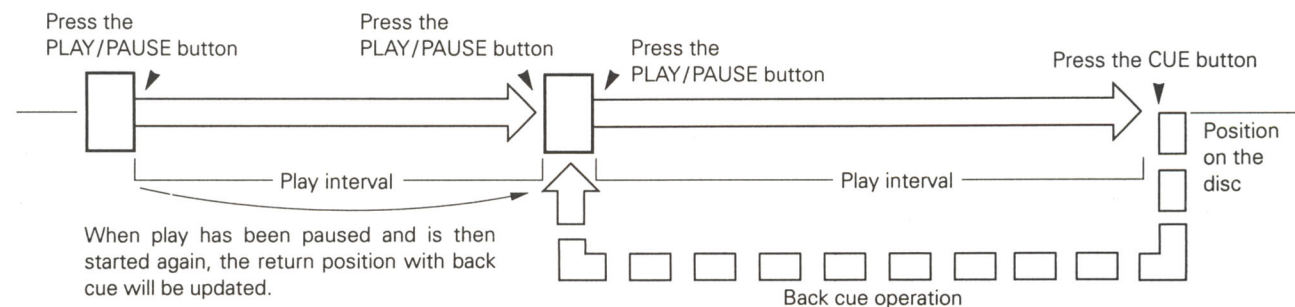
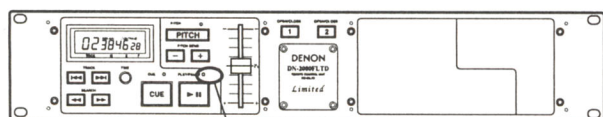


Figure 8

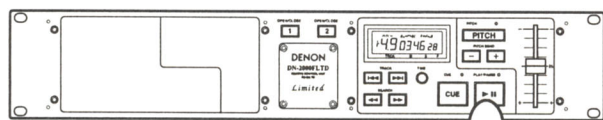
(8) Matching the Beat Per Minute

Match the pitch by monitoring the music of both CD-1 and CD-2 by ear. When the tempo of the music of the selected CD player is slow compared to the tempo of the other player, move the slider to the + side and match the tempo. When fast, move to the - side.

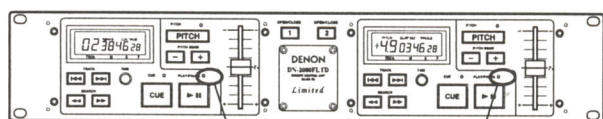
The following description is for the case of matching the pitch of CD-2 to the pitch of the music being played on CD-1.



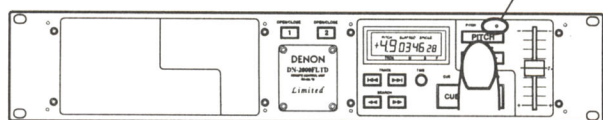
CD-1 is playing.



Press PLAY/PAUSE to start CD-2.
The LED of the PLAY/PAUSE button will light.

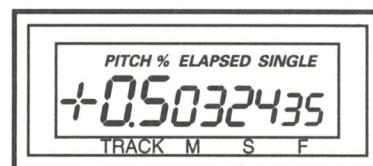


Monitor CD-2 sound through headphones during both CD-1 and CD-2 playback.



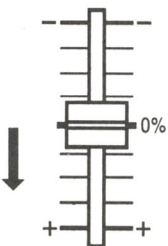
Press the PITCH button of CD-2.
The green LED of the PITCH button will light.

"PITCH" appears on the time display and the pitch corresponding to the position of the slide control is displayed on the TRACK display.



For instructions on displaying the pitch, refer to "(9) Displaying the Pitch".

When CD-2 is slow compared to CD-1



When CD-2 is fast compared to CD-1

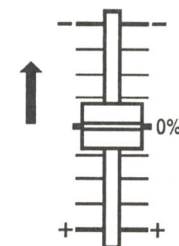


Figure 9

(9) Displaying the Pitch

1) When preset item 3 is set to "OFF": (See Page 15, 16)

- ① The display on the TRACK display switches from the track to the pitch % when the TIME button is pressed for more than 2 seconds.
- ② If the pitch control mode is off, 0.0% is displayed. If the pitch control mode is on, the pitch corresponding to the position of the pitch slide control is displayed.
- ③ During track searching, the track number being searched for is displayed.
- ④ If the TIME button is pressed for more than 2 seconds, the display switches back from the pitch to the track.

2) When preset item 3 is set to "ON":

When the pitch slide control is moved while the pitch control mode is on, the pitch is displayed on the TRACK display. When you stop moving the pitch slide control, the display returns to the track after approximately 2 seconds.

(10) Beat Matching Using Pitch Bend

A description of the procedure for matching the beat of CD-1 and CD-2 using the PITCH BEND button is given below. This description is for the case of matching the beat of CD-2 to the beat of the music being played on CD-1.

After Matching the BPM's According to Section (8)

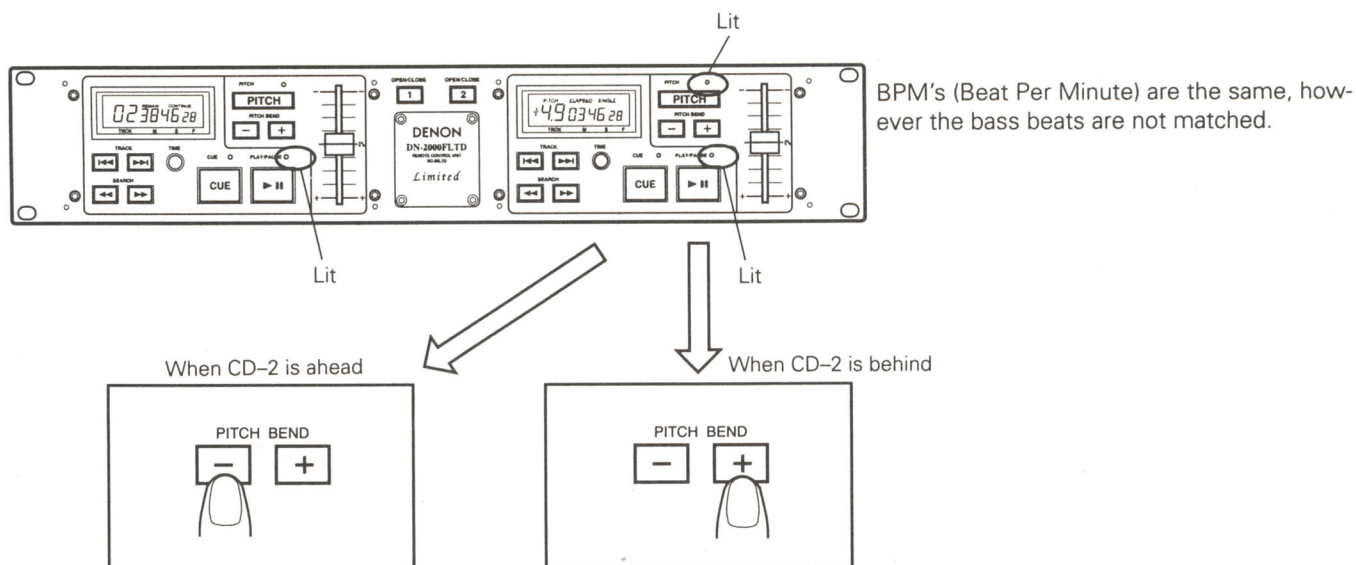


Figure 10

The pitch changes automatically while the **+** or **-** button is being pressed. Releasing the button results in a return to the original pitch. (So the BPM's are once again the same.)

(11) Moving the Play Start Position

When a track is selected and the PLAY/PAUSE button is pressed, the play operation will start from the beginning of that track. However, when you want play to start playback from a different position, use the following procedure to find that position.

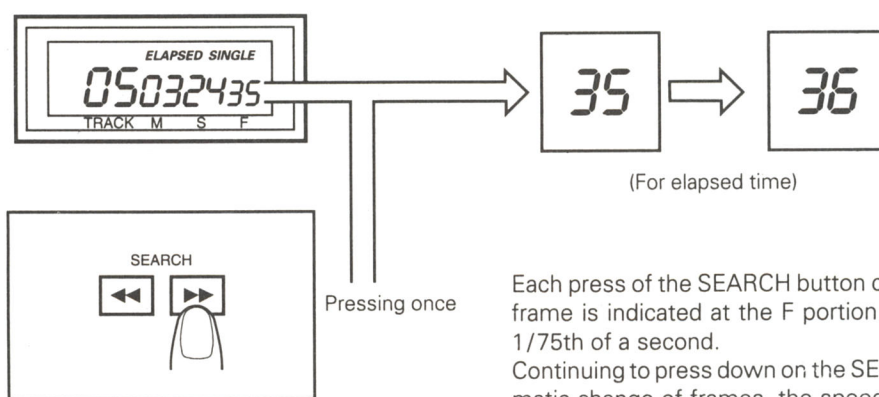
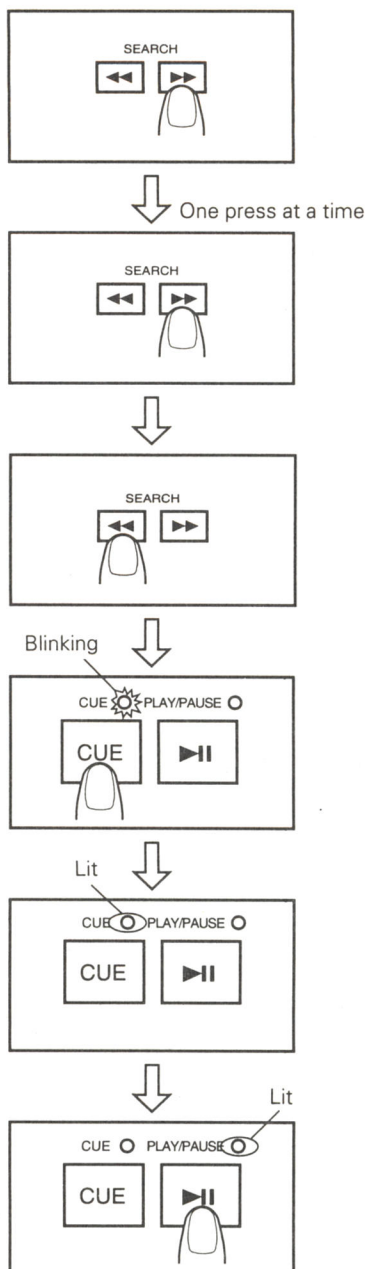


Figure 11

Note:

When one of the SEARCH buttons is pressed during playback, the manual search operation is performed while the button is pressed. When the button is released, normal playback resumes from that position.

To Start Playback from the Middle of a track.



While monitoring the sound, press the SEARCH button until you come close to the desired position, in the track. Holding the SEARCH button down allows "course" searching.

While monitoring the sound, press the SEARCH button a number of times to find the desired position. This allows "fine" searching.

If you go past the desired position, return by pressing the button a few times to back up.

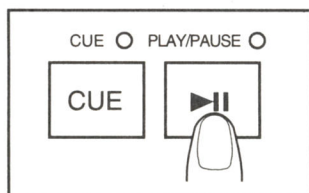
When the desired start position has been found, press the CUE button. The sound will mute and the LED of the CUE button will blink. When the CUE LED stops blinking, playback is ready.

Pressing the PLAY/PAUSE button will start the play operation. The LED of the PLAY/PAUSE button will light steadily.

Figure 12

(12) Checking the Play Start Position

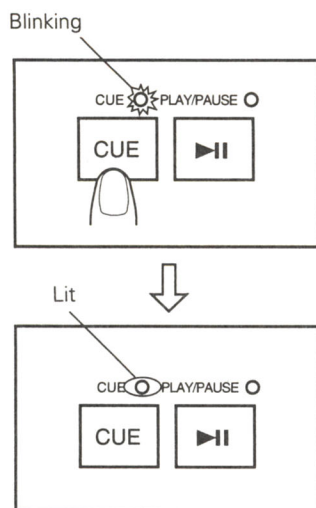
After selecting the track or after changing the play start position with the SEARCH button, use the following procedure to repeatedly check the position at which play will start.



Press the PLAY/PAUSE button.
Check that play will start from the desired position.

NOTE:

Once you have set up a new start position within a track, do not press the PAUSE or SEARCH buttons. Pressing these buttons will change your start position.



Press the CUE button after checking the start position.
The player will return to the position where play was started.
When the CUE LED stops blinking, it is ready to start again.

If the play start position is not to your desired point, use the search function to change the position.

Figure 13

5 PRESET FUNCTIONS

The DN-2000FLTD is equipped with non-volatile memory and is able to store various preset data. These data will not be lost even if the power is cut and so the desired settings corresponding to items such as those described in the table of Page 16 can be stored to memory. This function can be set independently for both CD-1 and CD-2, please use this function and operate the player at the optimum settings.

(1) Starting the Preset Data Change Mode

- Presetting can also be performed when no disc is loaded and in cue-up and pause modes.
- Press the TIME button and both PITCH buttons at the same time (PITCH LED starts blinking). The DN-2000FLTD will enter the preset data change mode and the first preset data will be displayed. The preset item number is displayed in the track display area and the current data are displayed in the minutes and seconds display area.



Figure 14

(2) Selecting the Item Number

- Press the TRACK button to increase the item number.
- Press the TRACK button to decrease the item number.
- The data of the selected item are displayed.

(3) Changing the Preset Data

- Press the SEARCH , button to select the preset data. The display data will change and blink.
- When the appropriate data have been selected, press the CUE button and store the data to the non-volatile memory. The display data will stop blinking.
- To change other items, repeat the operations of Steps (2) and (3).

(4) Initializing the Preset Data

- To initialize the preset data to the factory setting, store 1 to the data of item 0.
- The factory setting data are indicated by asterisks in the table of Page 16.

(5) Exiting the Preset Data Change Mode

To complete the change and return to the normal mode, press the TIME button and both PITCH buttons at the same time or press the OPEN/CLOSE button.

(6) Table of Preset Functions

The " * " mark indicates setting upon shipment from the factory.

ITEM No.	ITEM	DISPLAY						DESCRIPTION	
		TRACK		MINUTE		SECOND			
00	Initialize	0	0				0 1	Non Initial * Not Initialize Initialize to the same data as the factory setting.	
01	Play Mode when Power Turned On	0	1				0 1	Single Continue * Playback ends at the end of track. Playback continues until the end of disc.	
02	Time Display Mode when Power Turn On	0	2				0 1	Elapse Remain * Elapsed time is displayed when power turned on. Remaining time is displayed when power turned on.	
03	Pitch Display Mode when Power Turn On	0	3				0 1	Off On * The track number is displayed on the TRACK display. When the pitch slide control is moved while the pitch control mode is on, the pitch is displayed on the TRACK display.	
04	Pitch Control Mode when Power Turn On	0	4				0 1	Off On * The pitch control mode is turned off when the power is turned on. The pitch control mode is turned on when the power is turned on.	
05	Pitch Control Range	0	5				0 1	±8% ±4% * The pitch can be varied by ±8%. The pitch can be varied by ±4%.	
06	Disc holder auto close	0	6				0 1	Off On * Disc holder does not close automatically. Disc holder closes automatically after it is left open for a specific amount of time. For approx. 1 min.	
07	Cue Detect Level	0	7		— — — — — — — —	— 7 6 6 0 4 8 2 3	— ∞ — 72dB — 66dB — 60dB — 54dB — 48dB — 42dB — 36dB	Cue detect OFF * Individual tracks cue to the point where audio starts, rather than to the actual beginning of the track. The level at which sound is first detected can be set between —36dB and —72dB.	
08	EOM Duration	0	8				0 1 1 2 3 6	0sec 10sec 15sec 20sec 30sec 60sec	* EOM OFF At the end of a track, the LCD display flashes, providing a visual warning to the operator that the track will end shortly. The point at which the flashing begins can be set within a range of 10 to 60 seconds prior to the end of the track. NOTE: The EOM time may not be accurate for some discs.

6 BEFORE SWITCHING OFF THE POWER

When you have finished using the CD player, before switching off the power be sure that the disc holder has been closed with the OPEN/CLOSE button.

CAUTION:

Do not forcibly close the disc holder when the power is off.
It may damage the unit when it is transported.

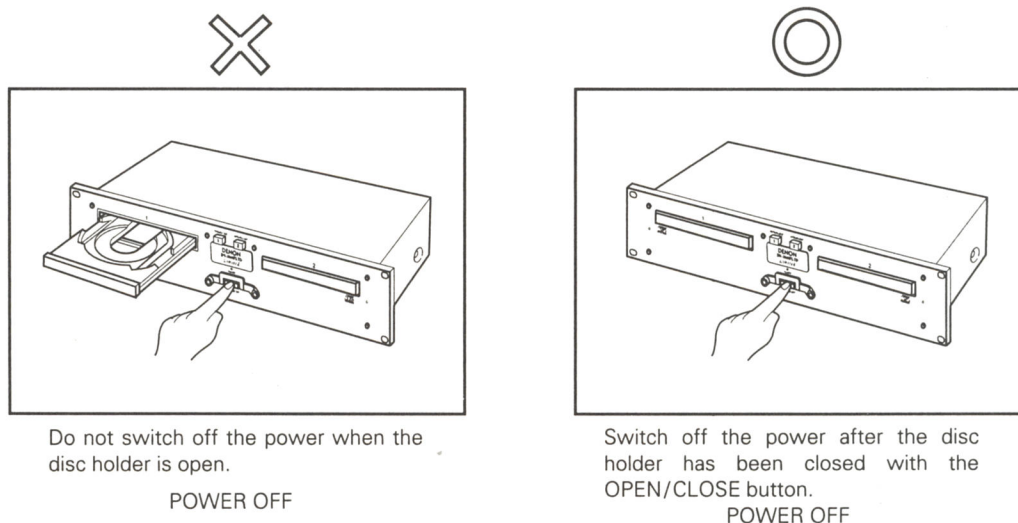


Figure 15

7 COMPACT DISCS

1. Precautions on handling compact discs

- Do not allow fingerprints, oil or dust to get on the surface of the disc.
If the disc is dirty, wipe it off with a soft dry cloth.
- Do not use benzene, thinner, water, record spray, electrostatic-proof chemicals, or silicone-treated cloths to clean discs.
- Always handle discs carefully to prevent damaging the surface; in particular when removing a disc from its case or returning it.
- Do not bend the disc.
- Do not apply heat.
- Do not enlarge the hole in the center of the disc.
- Do not write on the label (printed side) with a hard-tipped implement such as a pencil or ball point pen.
- Condensation will form if a disc is brought into a warm area from a colder one, such as outdoors in winter. Do not attempt to dry the disc with a hair dryer, etc.

2. Precaution on storage

- After playing a disc, always unload it from the player.
- Always store the disc in the jewel case to protect from dirt or damage.
- Do not place discs in the following areas:
 - 1) Areas exposed to direct sunlight for a considerable time.
 - 2) Areas subject to accumulation of dust or high humidity.
 - 3) Areas affected by heat from indoor heaters, etc.

8 CLEANING THE OPTICAL PICK-UP LENS

Necessity of cleaning might be differed on location and frequency of use each player.

It is recommend to clean the pick-up lens once a week.

We recommend using DENON's AMC-22 PICK-UP LENS CLEANER.

9 SPECIFICATIONS

GENERAL

Type:	Twin mechanism Compact Disc player with wired remote control.
Disc type:	Standard Compact Discs (12 cm and 8 cm)
Dimensions:	Player unit; 482(W) × 88(H) × 252(D)mm Remote control unit; 482(W) × 88(H) × 80(D)mm
Installation:	19-inch rack mountable Player unit; 2U Remote control unit; 2U
Weight:	Player unit; 5.5 kg Remote control unit; 1.5 kg
Power supply:	120 V AC ± 10%, 60 Hz (for U.S.A. & Canada models) 230 V AC ± 10%, 50 Hz (for European & U.K. model)
Power consumption:	25 W
Environment:	Temperature; 5 to 35°C Humidity; 25 to 85% (without condensation) Storage Temperature; – 20 to 60°C
Standard accessories:	Pin-connected cord; L/R 2 pairs Remote connecting cable (3 m); 1 pc.

AUDIO SECTION

Quantization:	16-bit linear/channel
Sampling frequency:	44.1 kHz
Oversampling rate:	8 times 18-bit
Frequency response:	20 to 20,000 Hz
Total harmonic distortion:	0.006 %
Signal-to-noise ratio:	98 dB
Dynamic range:	98 dB
Channel separation:	96 dB
Output level:	2.0 V
Load impedance:	10 kΩ/kohms or more

FUNCTIONS

Track selection:	1 to 99 tracks
Fast search:	1 frame step and continuous search
Automatic cueing:	Beginning of music Back cueing to cued point
Instant start:	Within 0.01 sec.
Variable pitch:	± 8% Slider with resume switch
Pitch bend:	± 13% max.
Display:	Track number, Remaining time or Elapsed time in Min. Sec. and Frame Pitch %, Single or Continuous playback mode

* Specifications and design are subject to change without notice for purpose of improvement.

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-11, JAPAN

Telephone: (03) 3584-8111

Cable: NIPPON COLUMBIA TOKYO Telex: JAPANOLA J22591