

Artistry in Sound

ONKYO[®]

DX-130

Compact Disc Player

SPECIAL CAUTIONS FOR COMPACT DISC PLAYER

This Compact Disc Player contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Owner's Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

BESONDERE VORSICHTSMASSNAHMEN FÜR CD-SPIELER

Dieser CD-Spieler enthält ein Halbleiterlasersystem und ist daher ein "LASERERZEUGNIS DER KLASSE 1". Richtige Bedienung ist erst nach Durchlesen der Bedienungsanleitung möglich. Nehmen Sie im Falle einer Störung Kontakt auf mit Ihrem Vertragshändler. Um Bestrahlung zu vermeiden, sollten Sie das Gehäuse niemals öffnen.

MISE EN GARDE PARTICULIERE POUR LES LECTEURS DE DISQUE AUDIONUMERIQUE

Ce lecteur de disque audionumérique contient un laser et est classé dans la rubrique 1 des produits faisant appel à cette technique. Lire ce manuel d'instructions avec soin afin d'employer cet appareil correctement. En cas de défaut de fonctionnement prendre contact avec le magasin où l'appareil a été acheté. Afin d'éviter l'exposition au faisceau laser, ne pas tenter d'ouvrir l'appareil.

PRECAUCIONES ESPECIALES PARA REPRODUCTORES DE DISCOS COMPACTOS

Este Tocado CD Audiodigital contiene un sistema de láser y está clasificado como un "PRODUCTO DE LASER DE PRIMERA CLASE". Para utilizar este modelo correctamente, sírvase leer con atención este manual y guárdelo para futuras referencias. En caso de cualquier problema póngase en contacto con la tienda donde compró su unidad. No abra la caja para evitar que quede expuesto al haz de láser.

BIJZONDERE VOORZORGSMAATREGELEN VOOR CD-SPELERS

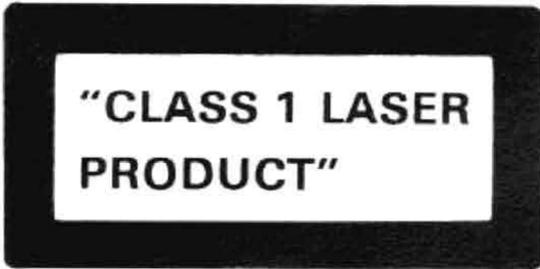
Dit apparaat is een klasse 1 laserproduct, voorzien van lasereerheid. Maak dit apparaat niet open om directe blootstelling aanaserstralen te voorkomen! Schakel voor service uw ONKYO dealer in! Neem voor service contact op met de handelaar van wie u het apparaat hebt gekocht.

SPECIELLA FÖRSIKTIGHETSÅTGÄRDER FÖR CD-SPELARE

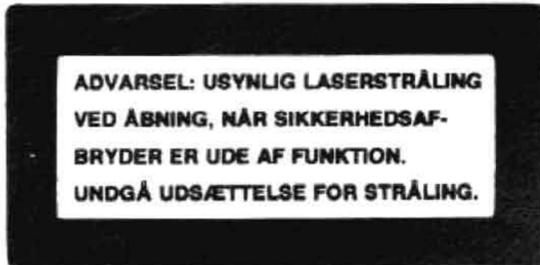
Denna CD-spelare innehåller lasersystem och har klassificerats "klass 1 laserprodukt". Läs därför noggrant igenom bruksanvisningen för rätt användning av apparaten. Behåll också anvisningen för framtida bruk. Kontakta alltid den affär, där du köpte CD-spelaren, vid eventuella fel på apparaten. Apparatens hölje får inte öppnas vid risk för direkt blottställelse av laserstrålen.

SÆRLIG ADVARSEL MED HENSYN TIL COMPACT DISC AFSPILLER

Denne Compact Disc Player indeholder et laser system og er klassificeret som "klasse 1 laser produkt". Læs derfor brugsanvisningen grundigt og opbevar den som opslagsbog i fremtiden. Hvis der opstår problemer med anlægget, kontakter den forretning hvor apparaten indikøbtes. Prøv ikke at åbne afskaermningen; De kunne blive udsat till direkte laser-stråling.



Denna mækning er anbragt på apparatets højre side og indikerer, at apparatet arbejder med laserstråler af klasse 1, hvilket betyder, at der anvendes laserstråler af svageste klasse, og at man ikke på apparatets yderside kan blive udsat for utilladelig kraftig stråling.



APPARATET BØ/R KUN ÅBNES AF FAGFOLK MED SÆRLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLER!

Indvendigt i apparatet er anbragt den her gengivne advarselmækning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsætte sig for laserstråling.

VAROITUS!

Suojakotelo ei saa avata. Laite sisältää laserdiodin, joka lähettää (nakymatonta) simille vaarallista lasersäteilyä.

- **T**hank you for purchasing the ONKYO DX-130 CD player.
- Please read this manual thoroughly before connecting up your new CD player, and turning it on.
- Following the instructions in this manual will enable you to obtain the utmost listening enjoyment from your new DX-130.
- Please keep the manual for later reference.

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FEATURES

- **“Two-Times” oversampling and Digital Filtering**

The two-times oversampling/digital filtering procedure increase the sampling frequency from the standard 44.1kHz to 88.2kHz. As a result, ultrasonic noise begins at a frequency of 68.2kHz—well above the upper limit of the audio band (20kHz)— so a steep analog filter is not necessary. This method preserves high -frequency phase accuracy, resulting in much more natural treble sound reproduction.

- **Eight-Digit Fluorescent Display**

The multi-function display indicates the current track number, the next track number, and the memory channel number, as well as the consumed/remaining time in minutes and seconds. This display capability facilitates easy song selection and tape dubbing operations.

- **Special Vibration Damping**

To prevent vibration-related tracking errors, Onkyo “floats” the entire drive assembly on four supports consisting of spring coils damped with vibration-absorbent rubber.

- **Three-Beam Laser Pickup**

In three-beam systems, the main beam searches for the presence of either a shiny surface, or a pit. Two auxiliary beams straddle either side of the disc track, searching for the presence of adjacent tracks. Such pickups are less liable to be “fooled” by disc defects like scratches which can cause mistracking.

IMPORTANT SAFEGUARDS

“WARNING”

“TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.”

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.”

FOR POWER CORDS WITHOUT PLUGS

- Replacement and mounting of an AC plug on the power cord of this unit should be performed only by qualified service personnel.
- **IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

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



- 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.

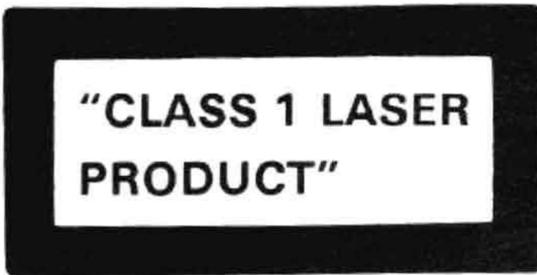


- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

- Cleaning of the internal parts should be performed only by qualified service personnel.
- Damage Requiring Service – The unit 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.
- 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.
- This apparatus complies with requirements of EEC directive 82/499/EEC.

SPECIAL CAUTIONS FOR COMPACT DISC PLAYER

THIS PRODUCT UTILIZES A LASER. USER OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



This label on the rear panel states that:

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

PRECAUTIONS

1. Warranty Card

The serial number is written on the rear panel of this unit. Copy the serial number and model number onto your warranty card and keep it in a safe place.

2. Power

WARNING

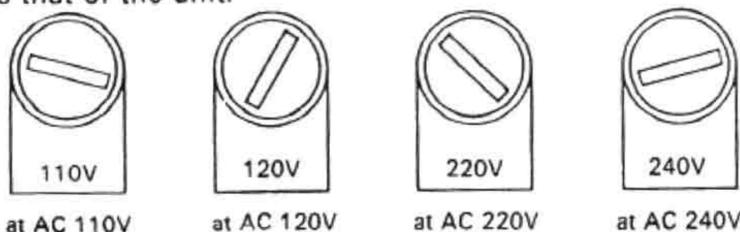
BEFORE TURNING ON POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

- Some models are designed for use only with the power supply voltage of the region where they are sold.

U.K. and Australian Models:	AC 240V, 50Hz
European model: (except U.K.)	AC 220V, 50Hz
USA & Canadian models:	AC 120V, 60Hz
Worldwide model:	AC 110, 120, 220 and 240V switchable, 50/60Hz

- **Voltage Selector (Rear Panel)**

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this selector to match the voltage of the power supply in your area before turning the power switch on. Voltage is changed by switching the voltage selector with a screwdriver or similar instrument to the 110V, 120V, 220V and 240V position. Confirm that the selector has been set to the correct position before turning the power switch on. If there is no voltage selector switch on the unit you have purchased, it can only be used in areas where the power supply voltage is the same as that of the unit.



Power Supply

Worldwide models: AC 110V, 120V, 220V, 240V, 50Hz/60Hz

3. Do Not Touch the Player with Wet Hands

Do not handle the player or power cord when your hands are wet or damp. If water or any other liquid enters the player cabinet, take the player to an authorized service station for inspection.

4. Location of the Player

- Place the Player in a Well-Ventilated Location.
Take special care to provide plenty of ventilation on all sides of the player especially when it is placed in an audio rack. If ventilation is blocked, the player may overheat and malfunction.
- Do not expose the player to direct sunlight or heating units as the player's internal temperature may rise and shorten the life of the pickup.
- Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.
- Be sure the player is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.
- Do Not Place Near Tuners and TV Sets.
If placed next to a TV or other tuner, it may cause reception interference resulting in some noise in the TV or tuner output.

5. Care

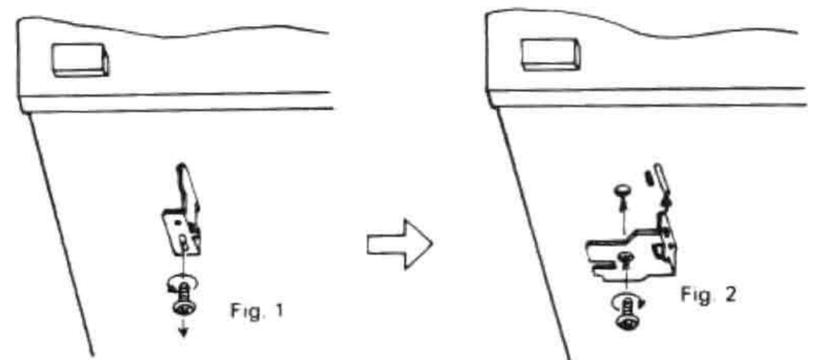
From time to time you should wipe off the front and rear panels and the cabinet with a silicon or other soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe away the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these may damage the finish or remove the panel lettering.

6. Points to Remember

- If the player is brought from a cold environment to a warm one or is in a cold room that is quickly heated, dew may form on the pickup preventing proper operation. In this case, remove the disc and leave the power ON for about one hour to remove the dew.
- Always close the disc tray when not loading or unloading discs to protect delicate internal parts from dust.
- When transporting the player. Be careful not to bump it.

BEFORE USING THIS UNIT

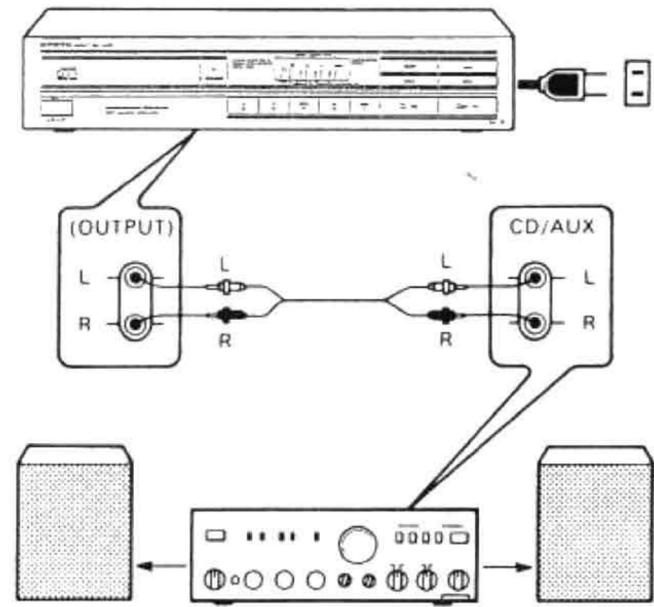
Before using this unit, remove the transport screw and the locking plate (Fig. 1). For safe keeping, insert the short end of the locking plate back in the slot and replace the screw to hold the plate in place. (Fig. 2)



SYSTEM CONNECTIONS

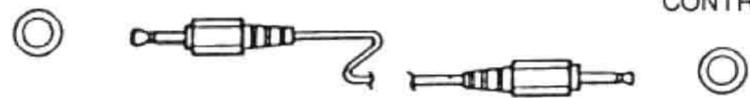
- Before Using This Unit
Do not turn on power until all connections have been completed.
- Connect the OUTPUT jacks of this unit to the AUX or CD input jacks of an amplifier. When making connections, be sure that the left and right channel connections are not crossed.
- The REMOTE CONTROL terminals should be used only for the remote control use.

(Please refer to the TX-84/82 manual for detail information.)



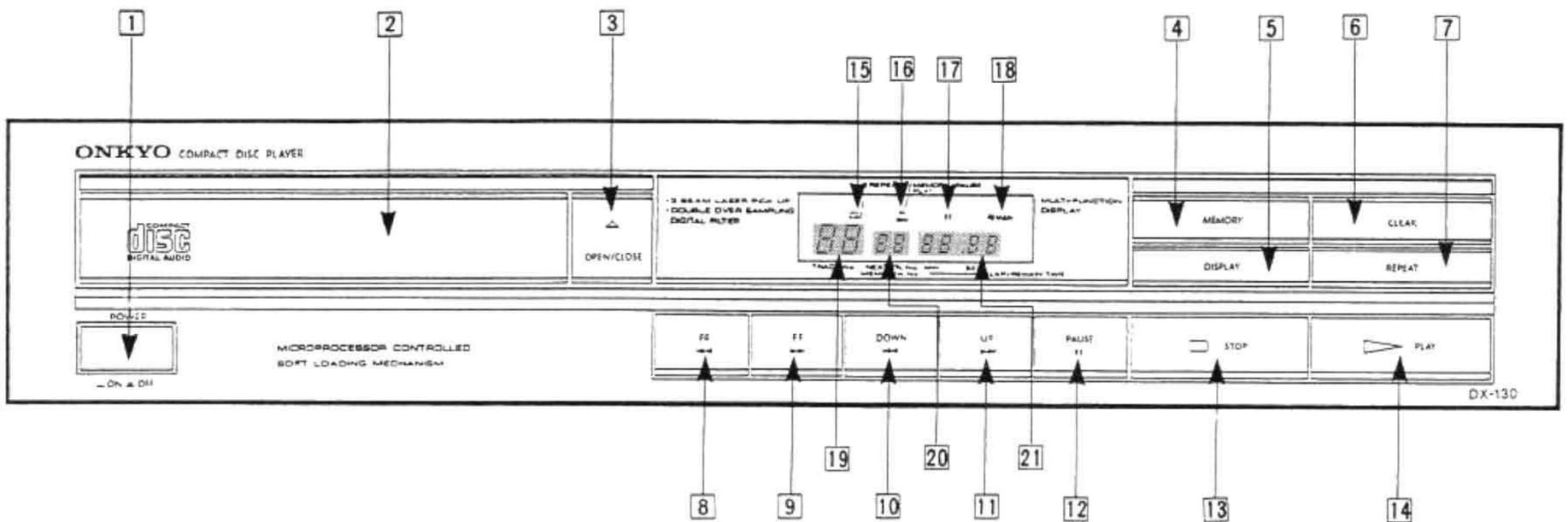
DX-130
REMOTE
CONTROL

TX-84/82
REMOTE
CONTROL



Note: Connect only ONKYO components so that malfunction or failure will be avoided.

FRONT PANEL FACILITIES



1 Power Switch (POWER)

Press once to switch power on and press again to switch power off.

2 Disc Tray

Place a compact disc in this tray. The tray is opened and closed by the OPEN/CLOSE key [3].

3 Open/Close Key (OPEN/CLOSE)

Press this key to open the tray and press it again to close the tray.

4 Memory Key (MEMORY)

Press this key to program song numbers into memory.

5 Display Key (DISPLAY)

Press this key during playing to switch the display shown in the Time Display [21] among the following three types:

1. Elapsed time display
Shows how long the current song has been playing.
2. Song remaining time
Shows how much time is left for the song currently playing.
3. Total remaining time
Shows how much playing time is left for the entire disc. During memory play, this display shows the playing time remaining for the entire sequence of songs programmed into memory.

6 Clear Key (CLEAR)

Press this key to correct the song number or to cancel the last song number programmed into memory.

7 Repeat Key (REPEAT)

Press this key to activate the repeat play mode. Repeat play can be used in conjunction with the normal and memory play modes.

8 Fast Reverse Key (FR)

When this key is held down, the pickup moves backward over the disc. Disc play is resumed as soon as this key is released.

9 Fast Forward Key (FF)

When this key is held down, the pickup moves forward over the disc. Disc play is resumed as soon as this key is released.

10 Down Key (DOWN)

Press this key during disc play to return to the beginning of the current track. Press twice to return to the beginning of the previous track, three times for the track before that, and so on.

11 Up Key (UP)

Press this key during disc play to advance to the beginning of one of the following tracks. The pickup moves ahead one song for each time this key is pressed.

12 Pause Key (PAUSE)

Press this key to briefly interrupt disc play. If this key is pressed while a track is being accessed after pressing the UP or DOWN key, the player will switch to the pause mode after the pickup has moved to the specified track. To resume disc play, press the PLAY key.

13 Stop Key (STOP)

Press this key to stop disc play.

14 Play Key (PLAY)

Press this key to start disc play. If the tray is open, pressing this key automatically closes the tray, then starts disc play. If there is no disc in the tray, the tray opens up again immediately.

15 Repeat Indicator

While in the repeat play mode, the Repeat indicator  , lights up.

16 Memory Play Indicator

The Memory play indicator  lights up when a song is programmed into memory and during memory play.

17 Pause Indicator

The Pause indicator  lights up when Pause is ON.

18 Remaining Indicator

The remaining indicator: REMAIN blinks when the Time Display **21** is showing the time remaining for the current song. When the time display shows the time remaining for the songs yet to be played, the indicator lights up and does not blink.

19 Track Number Display (TRACK No.)

Displays the song number that is currently being played.

20 Next Track Number/Memory Channel Display (Next Tr. No./MEMO. CH. No.)

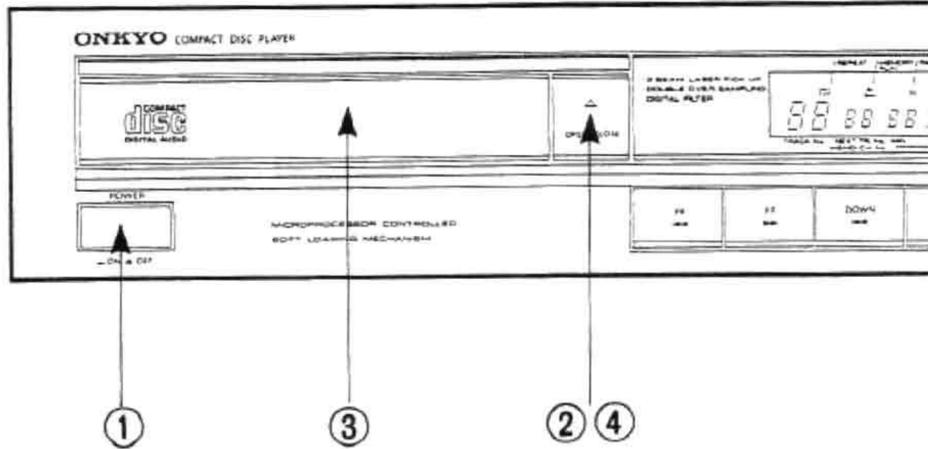
During memory play back, the track No. for the next song is displayed. When programming, the memory channel number is displayed.

21 Time Display

This display shows either the elapsed time or the remaining time for either the song being played or for the entire disc. During memory play, this display shows either the elapsed time or the remaining time for the song being played or the remaining time for the entire sequence of songs in memory.

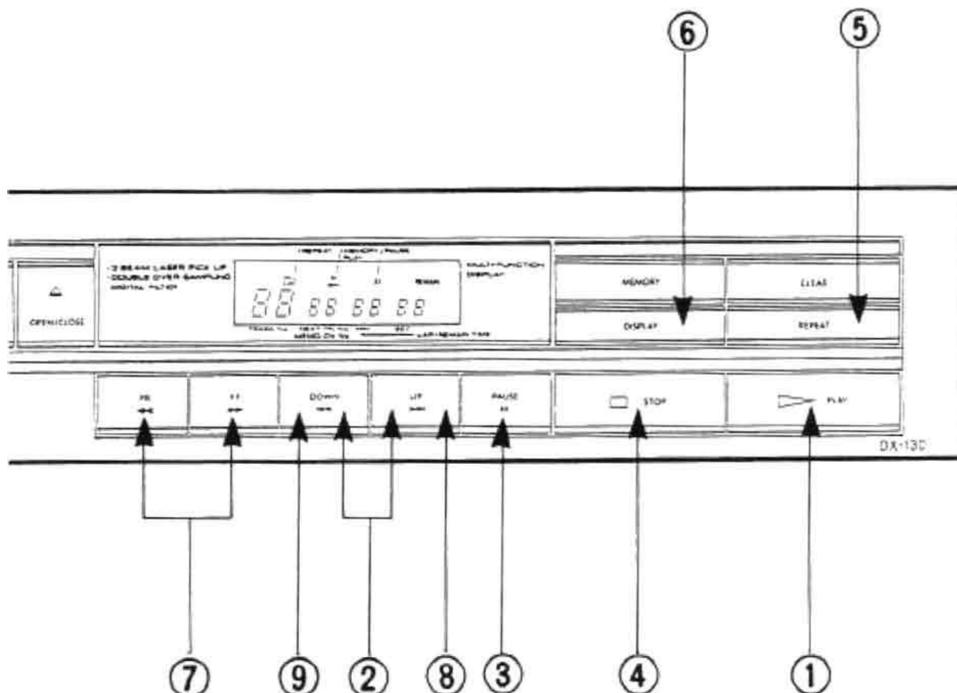
OPERATIONS

To Load a Disc



- 1 Press the Power Switch **1** to turn on the power.
- 2 Press the OPEN/CLOSE key **3** to open the Disc Tray.
- 3 Put the disc in the Disc Tray **2** with its label facing up.
- 4 Press the OPEN/CLOSE key again to close the disc tray.
 - The disc automatically begins to turn.
 - When the total number of songs on the disc and its total playing time are displayed, the disc is ready.
 - If nothing is displayed, this may mean that the disc is in upside down. If that is the case, take out the disc and put it in right side up.
 - When you put the disc in the disc tray, if you press the PLAY key **14** instead of the OPEN/CLOSE key, the tray is closed automatically and the first song begins to play.

To Play a Disc (Normal Play)

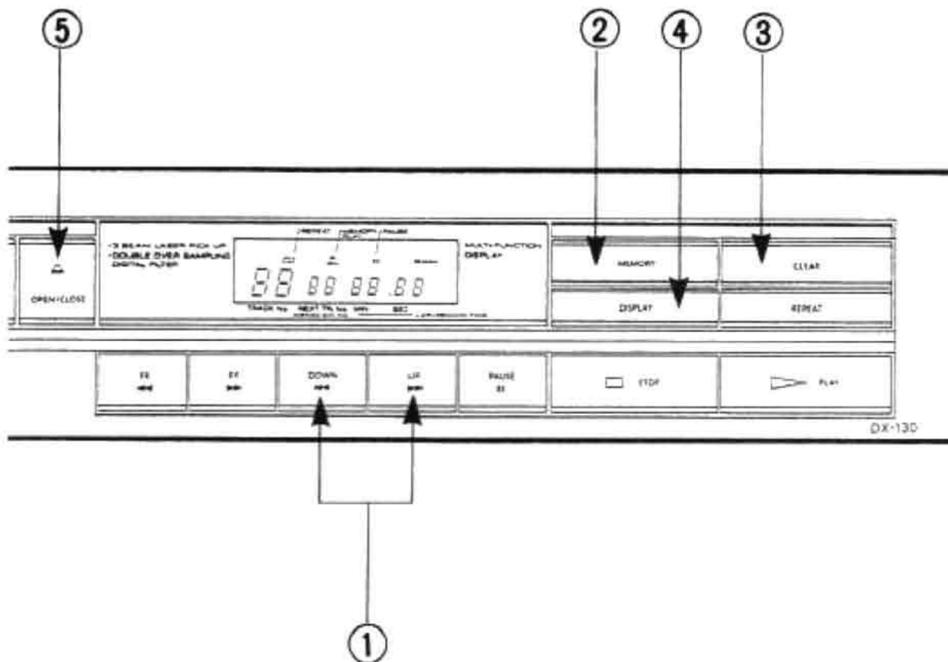


- 1 To listen to a disc from the beginning, press the PLAY key **14**.
 - The disc begins playing from the first song. If you play the disc all the way to the end, the track number display and the time display show "00 0.00" and the playing stops.
- 2 To begin listening from a particular song, press the UP key **11** or the DOWN key **10** to select the song you want to listen to.
 - When the number for the song you want listen to and its time are displayed, press the PLAY key **14**.
- 3 To pause during playing, press the PAUSE key **12**.
 - The Pause Indicator **17** lights and the playing stops temporarily.
 - To resume playing, press the PLAY key **14**. The playing starts up again from exactly where it left off.
- 4 To stop the playing, press the STOP key **13**.
 - The track number display and the time display show "00 0.00" and the playing stops.
 - When the display is in remaining time mode, the track number display shows the total number of songs on the disc and the time display shows the total playing time of the disc.
- 5 To listen to all the songs over and over, press the REPEAT key **7**. (You can press this key before playing begins or in the middle of playing.)
 - The Repeat Indicator **15** lights and when the playing reaches the end of the disc, it starts again from the first song.
 - To stop the repeat play, press it again.
- 6 To switch the display, press the DISPLAY key **5** during playing.
 - The Time Display **21** switches from displaying the elapsed time to displaying the time remaining for the current song. If you press the DISPLAY key again, the time display switches to displaying the total time remaining for the entire disc, and if you press it again, it returns to displaying the elapsed time.

- ⑦ To move forward or backward quickly while a disc is playing, press the FAST FORWARD key [9] or the FAST REVERSE key [8].
- The pickup continues to move rapidly forward or backward as long as you hold down the FAST FORWARD key or FAST REVERSE key. For the first 3 seconds, it moves at about 3 times normal playing speed and after that at about 20 times normal playing speed. While the pickup is moving rapidly forward or backward, the music can be heard at low volume (about -12 dB).
 - If you fast forward all the way to the end of the disc, the pickup stops.
- ⑧ To move on to the next song, press the UP key [11].
- The playing of the current song is interrupted and the pickup moves to the beginning of the next song.

- The pickup moves ahead one song for each time you press the UP key.
- ⑨ To return to the beginning of the song during playing, press the DOWN key [10].
- The playing is interrupted and the pickup moves back to the beginning of the current song. If the playing time display is "0.00" (in other words, if the pickup is already at the beginning of the song), the pickup moves to the beginning of the preceding song.
 - If you press the DOWN key again before the pickup reaches the beginning of the current song or you press the DOWN key twice in a row, the pickup goes to the beginning of the previous song.

To program the Memory



- ① Select the song you want with the UP key [11] or the DOWN key [10].
- The number of the song you have selected is displayed in the Track Number Display [19] and the playing time for that song is displayed in the Time Display [21].
- ② Press the MEMORY key [4].
- The selected song number is displayed in the Track No. Display [19] "c1" is displayed in the Next Track Number/Memory Channel Display [20], and the play time for the song is displayed in the Time Display. The song is now programmed in Channel 1.
 - You can repeat this procedure for up to 16 songs.
 - If there are 10 or more songs in memory, the "c" is left out of the display.
 - Once even one song has been programmed into memory, the Memory Play Indicator [16] lights up automatically and the compact disc player goes into memory play mode. The

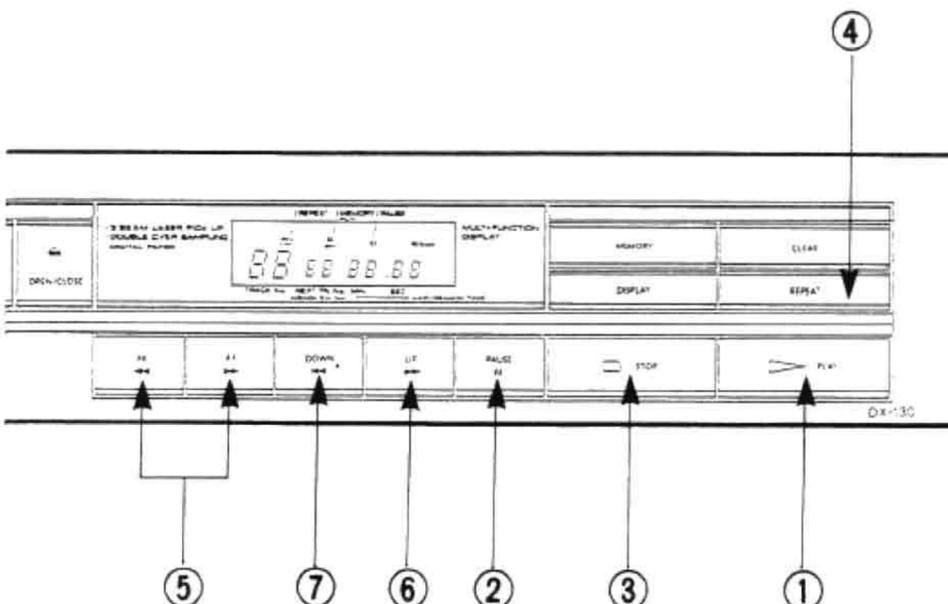
Remaining Indicator [18] also lights up and the time display shows the total remaining time.

NOTE

- 1) When more than one song has been programmed into memory, the time display shows the total time remaining for all the songs in memory. If the total time should exceed 99 minutes and 59 seconds, the time display shows "— — —" and no number will be displayed for the total time.
- 2) If a song whose track number is over 20 is programmed into memory, the time display shows "— — —" and the total time is not displayed.
- 3) If you try to program a 17th song, the memory channel display will show "E" to indicate that no more songs can be programmed into memory.
- 4) The memory not can be programmed while the disc tray is open, while there is no disc in the disc tray, or while a disc is playing.

- ③ To cancel a mistaken memory entry, press the CLEAR key [6].
- Pressing the CLEAR key cancels the last song programmed and displays the status of the preceding channel. Now, you can try again to program the song you want. Each time the CLEAR key is pressed, the last memory entry is cancelled.
- ④ Checking the contents of memory
- After completing the program operations, press the DISPLAY key [5].
- The Remaining Indicator [18] goes out and the contents of memory channel 1 are displayed. This time display shows the number of the song stored in Channel 1 and its playing time.
 - Use the UP key [11] and DOWN key [10] to switch the display to any memory channels you which to check.
- ⑤ To cancel all the songs in memory, press the OPEN/CLOSE key [3].
- The contents of the memory are canceled when the disc tray opens.

To Play the Memory



- ① To listen to the disc from in memory in the programmed order, press the PLAY key [14].
- Play begins in the programmed order, i.e. beginning with the song stored in Memory Channel 1.
 - The current song number is displayed in the Track No. Display [19] and the next song number is displayed in the Next Track Number/Memory Channel Display [20].
- ② To pause during playing, press the PAUSE key [12].
- The Pause Indicator [17] lights and the playing stops temporarily.
 - To resume playing, press the PLAY key [14]. The playing starts up again from exactly where it left off.
- ③ To stop the playing, press the STOP key [13].
- The contents of Memory Channel 1 are displayed and the play stops.
 - When in the remaining time mode, the last song in memory is displayed in the Track No. Display [19], the last channel number in memory is displayed in the Next Track

Number/Memory Channel Display [20], and the entire play time in memory is displayed in the Time Display [21].

NOTE:

To leave memory play completely, either press the CLEAR key [6] to clear the entire memory or press the OPEN/CLOSE key [3] to open the disc tray and clear the memory. Either operation returns the disc player to normal play mode.

- ④ To listen to all the songs over and over, press the REPEAT key [7]. (You can press this key before beginning to play the disc or while playing the disc.)
 - The Repeat Indicator [15] lights and when the disc player reaches the end of the sequence of songs programmed into memory it repeats that sequence.
 - To stop the repeat play, press it again.
- ⑤ To move forward or backward quickly within the current playing song, press the FAST FORWARD key [9] or the FAST REVERSE key [8].
 - The pickup continues to move rapidly forward or backward in the current playing song as long as you hold down the FAST FORWARD key or FAST REVERSE key. For the first 3 seconds, it moves at about 3 times normal playing speed

and after that at about 20 times normal playing speed. While the pickup is moving rapidly forward or backward, the music can be heard at low volume (about -12 dB).

- If you hold the keys down for fast forward or reverse, when exceeding the current playing song, play automatically resumes from the beginning of the next song specified in the memory.
- ⑥ To move on to the next song, press the UP key [11].
 - The playing of the current song is interrupted and the playing moves to the beginning of the next song in memory.
 - The playing moves ahead one song in memory for each time you press the UP key.
- ⑦ To return to the beginning of the song during playing, press the DOWN key [10].
 - The playing is interrupted and the pickup moves back to the beginning of the current song. If the playing time display is "0.00" (in other words, if the pickup is already at the beginning of the song), the pickup moves to the beginning of the preceding song in memory.
 - If you press the DOWN key again before the pickup reaches the beginning of the current song or you press the DOWN key twice in a row, the pickup goes to the beginning of the preceding song in memory.

TROUBLE-SHOOTING GUIDE

Problem	Cause	Remedy
Power switch is pressed but power does not come on.	<ul style="list-style-type: none"> ● Power cord plug is not properly connected to AC outlet. 	<ul style="list-style-type: none"> ● Insert plug firmly.
Disc loaded but play does not begin when play key is activated.	<ul style="list-style-type: none"> ● Disc is loaded upside-down. ● Disc is dirty. ● Dew on pickup. 	<ul style="list-style-type: none"> ● Load disc with the label side facing upward. ● Clean the disc. ● Place unit in warm place for about one hour.
No sound.	<ul style="list-style-type: none"> ● Incomplete connections. ● Improper input selector switch setting on amplifier. 	<ul style="list-style-type: none"> ● Insert all plugs firmly in jacks. ● Set switch to proper position.
Skipping.	<ul style="list-style-type: none"> ● Disc is dirty. ● Disc is scratched. ● Unit has been exposed to a strong bump. ● The locking plate has not been removed. 	<ul style="list-style-type: none"> ● Clean the disc. ● Use another disc. ● Place the unit in a more stable location. ● Remove the locking plate.
Search time (when moving to a specific track) is extremely long.	<ul style="list-style-type: none"> ● Disc is dirty. ● Disc is scratched. 	<ul style="list-style-type: none"> ● Clean the disc. ● Use another disc.
Track numbers not can be stored in the memory.	<ul style="list-style-type: none"> ● No disc is in the tray. ● Disc is being played. ● A track number not on the disc is being used. (Remote Control Operation) 	<ul style="list-style-type: none"> ● Load a disc. ● Stop disc play. (Memory entry is not possible during disc play.) ● Use only track numbers on the disc.

SPECIFICATIONS

Model DX-130

Compact Disc Player

Signal readout system:	Optical non-contact
Reading rotation:	About 500–200 r.p.m. (constant linear velocity)
Linear velocity:	1.2–1.4 m/s
Error correction system:	Cross interleave readsolomon code
Decoded bits:	16 bits linear
Sampling frequency:	88.2 kHz (two-times oversampling)
Number of channels:	2 (stereo)
Frequency response:	5 Hz–20 kHz
Total harmonic distortion:	0.03% (at 1 kHz)
Dynamic range:	93 dB
Signal to noise ratio:	96 dB
Channel separation:	87 dB (at 1 kHz)
Wow and Flutter:	Below threshold of measurability
Output level:	2 volts r.m.s.
Power consumption:	13 watts
Power supply rating:	U.K. and Australian Models: AC 240V, 50Hz European Model: AC 220V, 50Hz (except U.K.) USA & Canadian Models: AC 120V, 60Hz Worldwide Model: AC 110, 120, 220 & 240V switchable, 50/60Hz
Dimensions (W x H x D):	435 x 88 x 359 mm 17-1/8" x 3-7/16" x 14-1/8"
Weight:	4.8 kg, 10.6 lbs.
Supplied accessories:	● Output signal cord