YAMAHA

CDX-596/496/396

Compact Disc Player

Lecteur Compact Disque

COMPACT
disc
DIGITAL AUDIO

OWNER'S MANUAL
MODE D'EMPLOI

SAFETY INSTRUCTIONS

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

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

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

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

5 Water and Moisture – The unit should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

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

6A A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.

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

8 Ventilation – The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit 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 unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.

10 Power Sources – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.

11 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 unit.

12 Cleaning – The unit should be cleaned only as recommended by the manufacturer.

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

14 Object and Liquid Entry – Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.

15 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 unit; or
   C. The unit has been exposed to rain; or
   D. The unit does not appear to operate normally or exhibits a marked change in performance; or
   E. The unit has been dropped, or the cabinet damaged.

16 Servicing – The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.

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

18 Grounding or Polarization – Precautions should be taken so that the grounding or polarization is not defeated.

FCC INFORMATION (for US customers only)

1. **IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!**
   This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
2. **IMPORTANT :** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
3. **NOTE :** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

   This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

CONTENTS

CAUTION: Read this before operating your unit.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

- Install your unit in a well ventilated, cool, dry, clean place — away from windows, heat sources, vibration, dust, moisture, or cold. To avoid humming sounds, locate the unit away from other electrical appliances, motors, and transformers. To prevent fire or electrical shock, do not expose to rain and water.

- Be sure to allow enough spaces for ventilation at the top, on left, right, and back sides of this unit.

- Do not operate the unit upside-down. It may overheat, possibly causing damage.

- Never open the cabinet. If something drops into the set, contact your dealer.

- Do not use force on switches, knobs or cords.

- When not planning to use this unit for long periods of time (i.e., vacation, etc.), disconnect the AC power plug from the wall outlet.

- Grounding or polarization — Precautions should be taken so that the grounding or polarization of the unit is not defeated.

- Do not clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.

- Be sure to read the "Troubleshooting" section on common operating errors before concluding that your unit is faulty.

- Do not place another component on top of this unit, as damage or discoloration on the surface of the unit may result.

- To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.

- When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.

- Do not plug the AC power plug to the wall outlet before you finish all connections.

- The voltage to be used must be the same as that specified on this unit. Using this unit with a higher voltage than that which is specified is dangerous and may result in a fire or other type of accident causing damage. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

- Sudden temperature changes and storage or operation in an extremely humid environment may cause condensation inside the cabinet.

CAUTION FOR MOVING THE UNIT

Before moving the unit, first remove the disc from the unit, press **POWER** to turn the unit off, and then disconnect the AC power plug from the wall outlet.

CAUTION

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

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

For Canadian Customers

To prevent electric shock, match wide blade of plug to wide slot and fully insert.

This Class B digital apparatus complies with Canadian ICES-003.

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NOTES ABOUT DISCS

Discs playable with this unit

This compact disc player is designed only for playing compact discs bearing the marks shown below. Never attempt to load any other type of disc into the unit. The unit will also play 8-cm (3-inch) compact discs.

.... **Compact discs (digital audio)**
The most popular discs for commercially available audio CDs.

.... **CD-RW (ReWritable) digital audio discs**
The discs repeatedly recordable by using CD recorders for audio recording. Recorded CD-RW discs can be played only with CD players which have the ability to play CD-RW discs.
Notes
● Be sure to use a CD-RW disc made by a reliable manufacture.
● Be sure to use a CD-RW disc which has at least one of the following phrases on the disc or disc case.
FOR CONSUMER
FOR CONSUMER USE
FOR MUSIC USE ONLY

.... **CD-TEXT discs**
The discs recorded with text data such as album titles, track titles and artist names. These discs can be played with ordinary CD players, however, the text data can be displayed only with CD players which have the ability to display such data. **CDX-596** can display text data recorded on CD-TEXT discs.
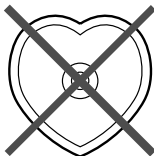
Note
This compact disc player may not be able to play some CD-RW discs or discs on which recording was not made correctly.

To prevent a malfunction of this unit:
● Do not use any nonstandard shaped disc (heart etc.) available on the market because it might damage the unit.

● Do not use a disc with tape, seals, or paste on it. If you use such a disc, a disc may get stuck in the unit, or damage to the unit may result.

Notes about handling compact discs

● Always handle the disc with care so that its surface is not scratched.
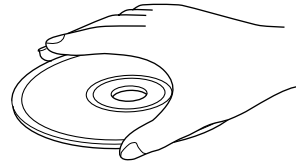
● Compact discs are not subjected to wear during play, but damage to the disc surface when the disc is being handled can adversely affect the disc's play.

● Be sure to use a felt-tip pen or similar writing tool when writing on the label side of the disc. Do not use a ball-point pen, pencil, or other hard-tipped writing tool, as these may damage the disc and may adversely affect the disc's play.

● Do not warp discs.

● When a disc is not currently being used, remove it from the unit and store in an appropriate case.

● When removing or storing a disc, be careful not to scratch the playing surface.

● Compact discs are not affected by small particles of dust or fingerprints on their playing surface, but even so they should be kept clean. Wipe by using a clean, dry cloth. Do not wipe with a circular motion; wipe straight outward from the center.
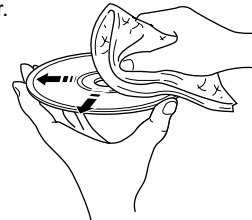
● Do not try to clean the disc's surface by using any type of disc cleaner, record spray, anti-static spray or liquid, or any other chemical-based liquid because such substances might irreparably damage the disc's surface.

● Do not expose discs to direct sunlight, high temperature or high humidity for a long period of time because these might warp or otherwise damage the disc.

No!

To play an 8-cm (3-inch) CD
Place it in the inner recessed area of the disc tray. Do not put a normal (12-cm/5-inch) CD on top of an 8-cm CD.

Thank you for selecting this YAMAHA compact disc player.

FEATURES

● **CD-RW (ReWritable) Disc Playability**
  * Refer to page 2 for details.
● **Program Play**
● **Random-Sequence Play**
● **Single Track/Entire Disc Repeat Play**
● **Automatic Spacing Function**
● **Track Programming Function Useful for Recording Tracks Fitted onto Any Length of Tape**

● **Automatic Peak Level Search Function**
● **CD Synchronized Recording**
● **Adjustable Display Brightness**
● **Remote Control Capability**
● **Optical Digital Output**

CDX-596 only

● **Coaxial Digital Output**
● **CD-TEXT Data Display Capability**

UNPACKING

Carefully remove this unit and accessories from the box. You should find the unit itself and the following accessories.

Remote control	RCA pin cable
CDX-596 CDX-496 CDX-396	
	Battery (size AA, R6, UM-3) x 2
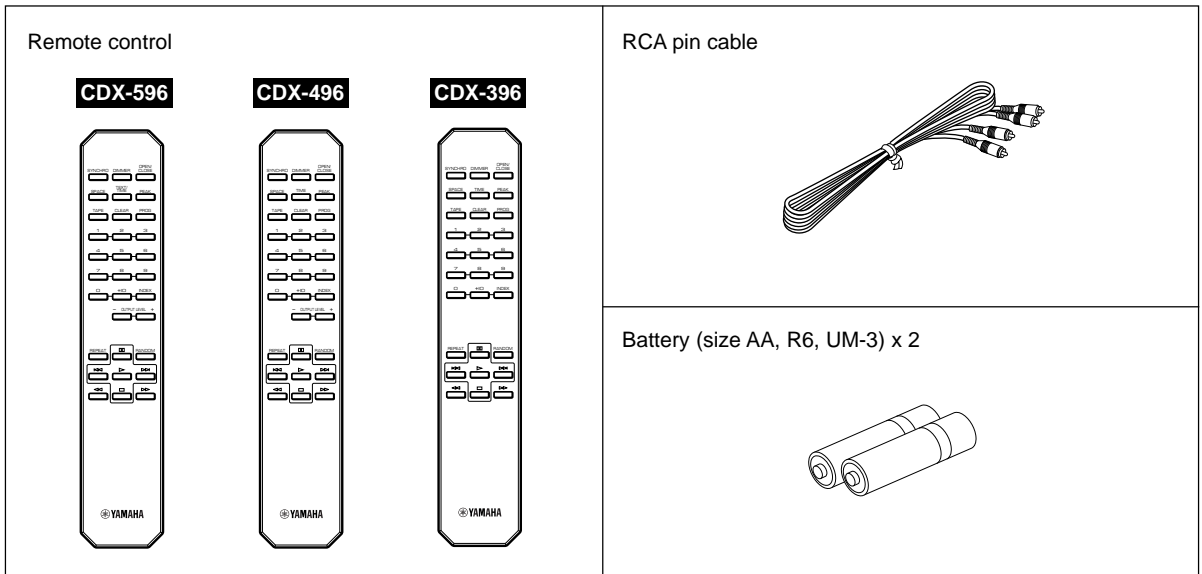
NOTES ABOUT THE REMOTE CONTROL

Battery installation

1. Turn the remote control over and remove the battery compartment cover by sliding it in the direction of the arrow.
2. Insert the batteries (AA, R6, UM-3 type) according to the polarity markings on the inside of the battery compartment.
3. Close the battery compartment cover.
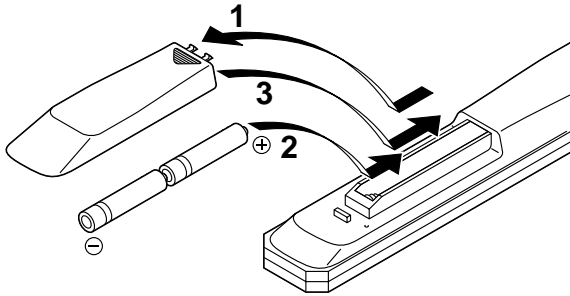
Battery replacement

If you notice that the remote control must be used closer to the main unit, the batteries are weak. Replace both batteries with new ones.

Notes
- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if remote control will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

Remote control operation range
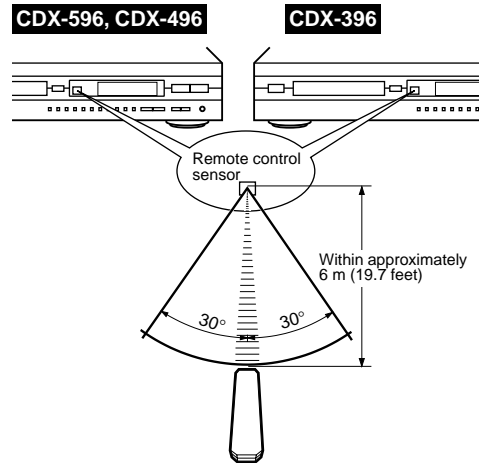
Notes
- There should be no large obstacles between the remote control and the main unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type fluorescent lamp etc.), the remote control might not work properly. In this case, reposition the main unit to avoid direct lighting.

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CONNECTIONS

- Before making any connection, switch OFF the power to the unit and the amplifier or other component.
- Connections should be made to the correct input terminals of the amplifier or another component.

- If the placement of this unit causes noise to another equipment, such as a tuner, separate them from each other.
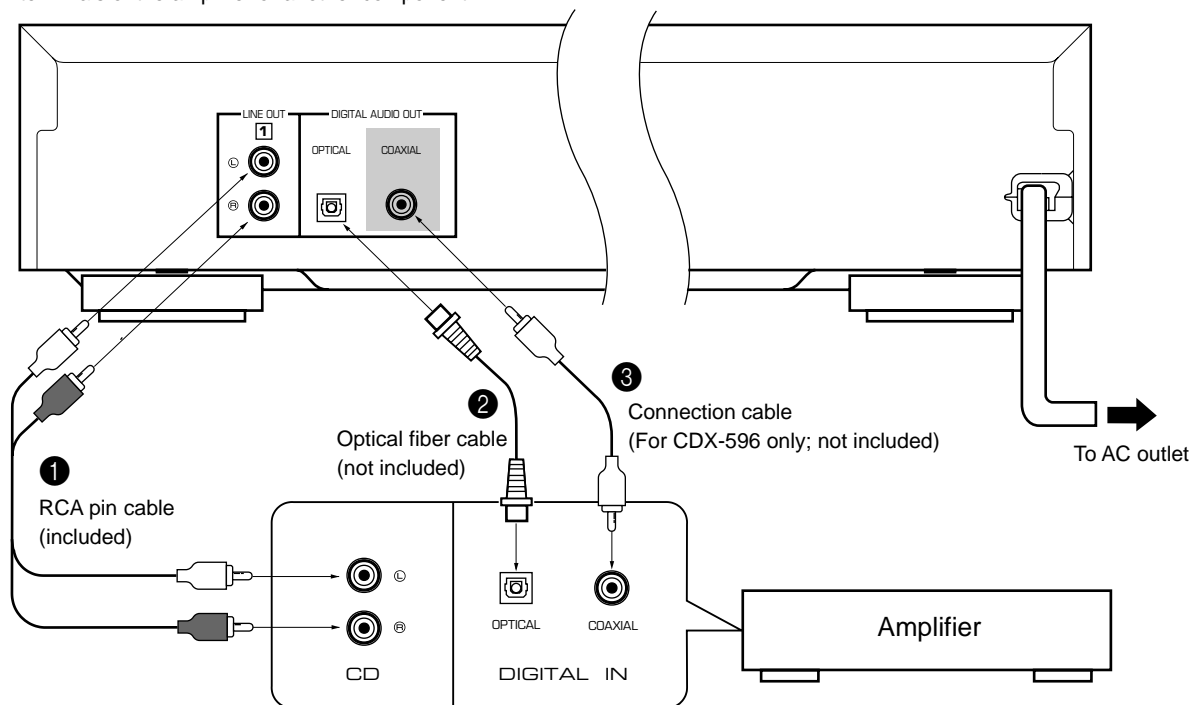
The shaded part (▨) is provided for CDX-596 only.

To connect this unit to your amplifier, choose one of the ways listed below.

When the LINE OUT (analog) terminals of this unit are used (❶)
Connect these terminals to the "CD" (or "AUX") terminals of the amplifier. For additional details concerning these connections, refer to the operation instructions of the amplifier being used.

* Be sure that the left ("L") and right ("R") of these terminals are connected to the corresponding (left and right) terminals of the amplifier or another component.

CDX-596 and CDX-496 only
- The level of signals output from any of these terminals into an amplifier can be adjusted by using the **– OUTPUT LEVEL +** buttons.
- When using the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) terminal, set the level of signals output into an amplifier to max. by using the **– OUTPUT LEVEL +** buttons.

When the DIGITAL AUDIO OUT (OPTICAL) terminal of this unit is used (❷)
- Before using this terminal, pull out the terminal's cover.
- Make the connection from this terminal to the optical input terminal of an amplifier by using a commercially available optical fiber cable.
  * Use an optical fiber cable that conforms to EIAJ standards. Other cables might not function correctly.
- Be sure to attach the terminal's cover when this terminal is not being used, in order to protect the terminal from dust.
- This terminal can also be connected to the optical input terminal of an MD recorder etc. to record CD onto MD directly.

When the DIGITAL AUDIO OUT (COAXIAL) terminal of this unit is used (❸)
CDX-596 only
Make the connection from this terminal to the digital input terminal of an amplifier by using a connection cable.
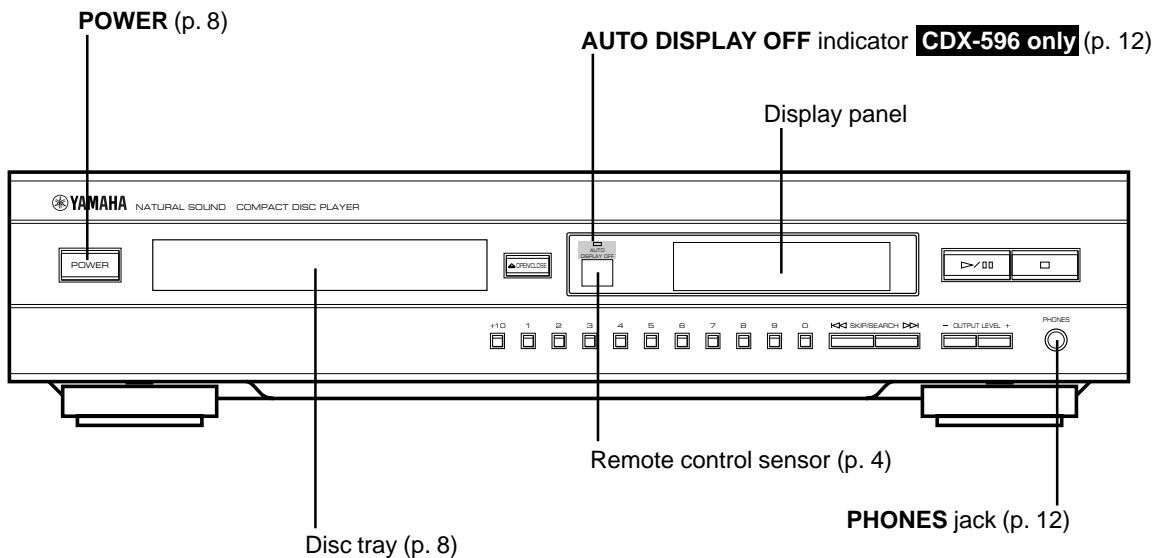
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IDENTIFICATION OF COMPONENTS

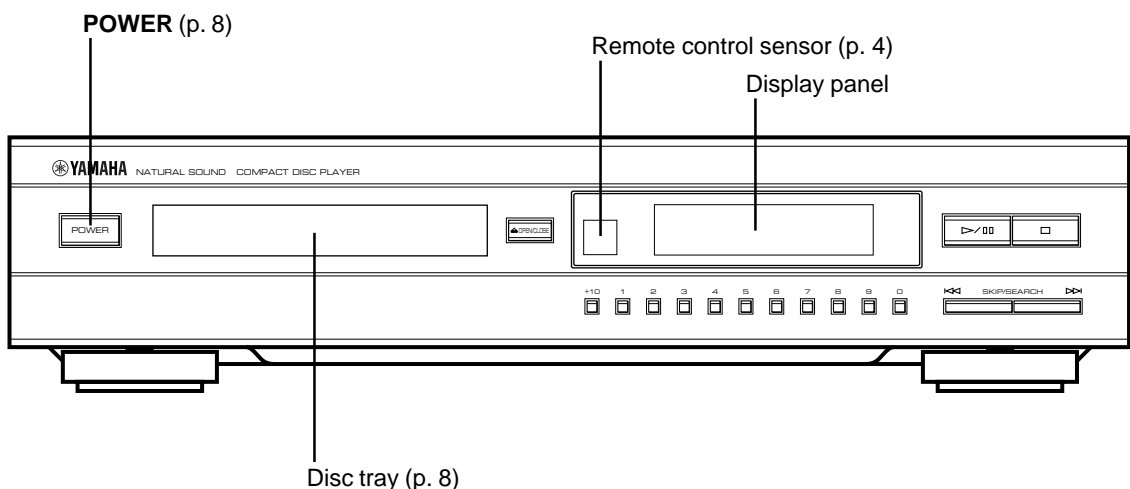( ) indicates the page number on which the controls are best described.

FRONT PANEL

● The control functions on the main unit and on the remote control are virtually identical, with the exceptions below.

● ▷/❙❙ (play/pause) on the main unit has both the functions of ▷ (play) and ❙❙ (pause) on the remote control.

● ◁◁ **SKIP/SEARCH** ▷▷ on the main unit has both the functions of ◁◁/▷▷ (skip) and ◁◁/▷▷ (search) on the remote control.

CDX-596, CDX-496

POWER (p. 8)

AUTO DISPLAY OFF indicator **CDX-596 only** (p. 12)

Display panel

Remote control sensor (p. 4)

PHONES jack (p. 12)

Disc tray (p. 8)

The shaded part (▨) is provided for CDX-596 only.

CDX-396

POWER (p. 8)

Remote control sensor (p. 4)

Display panel

Disc tray (p. 8)

( ) indicates the page number on which the controls are best described.

REMOTE CONTROL

CDX-596

TEXT/TIME (p. 11) —— TEXT/TIME

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TIME (p. 11) —— TIME

DIMMER (p. 12)

SYNCHRO (p. 21) —— SYNCHRO DIMMER OPEN/CLOSE

OPEN/CLOSE (p. 8)

SPACE (p. 12) —— SPACE PEAK

PEAK (p. 20)

TAPE (p. 16) —— TAPE CLEAR PROG

PROG (p. 14)

CLEAR (p. 15)

1 2 3
4 5 6
7 8 9

Numeric buttons (p. 9)

0 +10 INDEX

INDEX (p. 15)

⏸ "pause" (p. 9)

− OUTPUT LEVEL +

CDX-596 and CDX-496 only
OUTPUT LEVEL (p. 12)

RANDOM (p. 13)

REPEAT (p. 13) —— REPEAT ⏸ RANDOM

▷ "play" (p. 8)

□ "stop" (p. 9)

◁◁/▷▷ "skip" (p. 10)

◁◁/▷▷ "search" (p. 10)

⊛**YAMAHA**

The shaded parts ( ) vary between models.

**This manual describes how to operate this unit by using the remote control.
To operate this unit from the front panel, use the corresponding buttons on the front panel.**
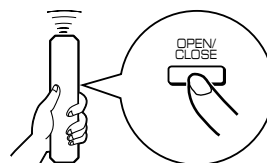
BASIC OPERATION

2, 3

4
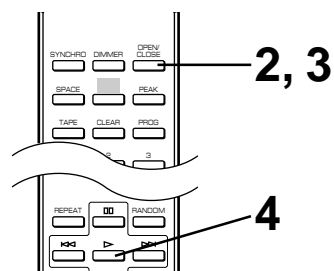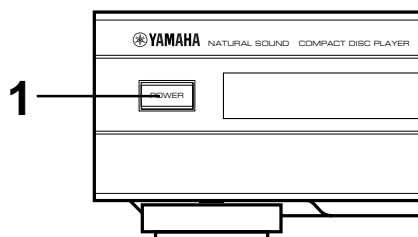
1 Press **POWER** to turn on the power.

POWER

2 Press **OPEN/CLOSE** to open the disc tray, and load a disc.

Label side up.

OPEN/
CLOSE
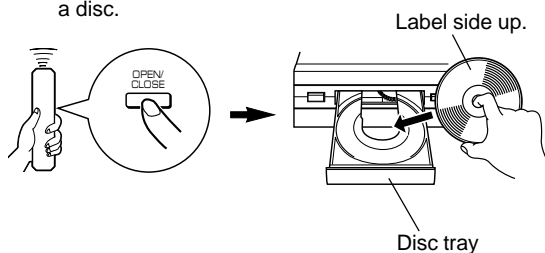
Disc tray

3 Press **OPEN/CLOSE** to close the disc tray.

OPEN/
CLOSE

4 Press ▷ (or ▷/❙❙) to begin play.

▷
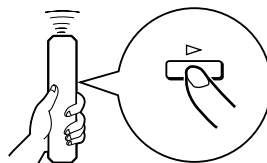
Play will begin from the first track of the disc.

Display information

CDX-596

① ② ③

3 4 5 6 7 8 9 10
11 12

3   0 : 08 ▷

④

CDX-496, CDX-396

① ④ ③

3   0 : 08

3 4 5 6 7 8 9 10 11 12

②
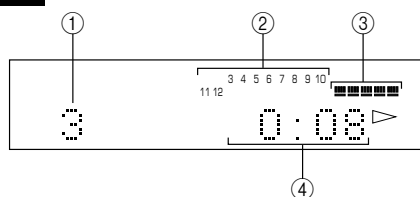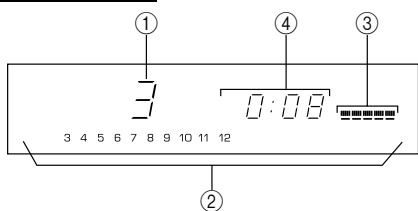
① Shows the track number selected or being played.
② Displays the numbers that correspond to the numbers of tracks (as high as number 20) on the disc. After each track is played, its corresponding number disappears so the number of remaining tracks (and their numbers) can be seen at a glance.
③ **CDX-596 and CDX-496 only**
Shows the level of signals output into an amplifier or the headphone level adjusted by pressing **– OUTPUT LEVEL +**.
④ Shows the time displays. (Refer to "Changing displays" on page 11.)
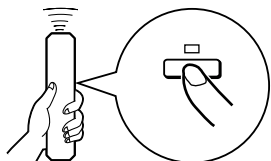
To pause play

Press ❚❚.
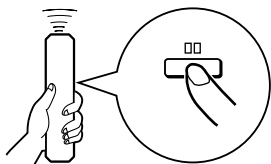
To resume play, press ❚❚ again (or press ▷).

* ▷/❚❚ on the front panel can also be used to stop play temporarily or to resume play.
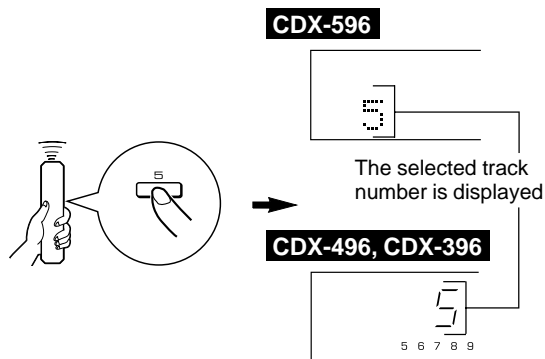
To stop play

Press ☐.

To turn off the power

Press **POWER** again.

* If you turn on the power again with a disc still on the tray, the disc starts playing automatically from the first track.

To play directly from the desired track

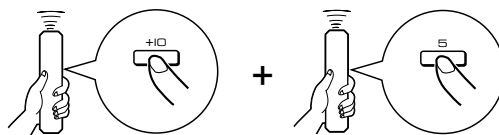Select a desired track by using the numeric buttons.

CDX-596

The selected track number is displayed

CDX-496, CDX-396

5 6 7 8 9

To select track number 10 or higher

Press **+10** to select the first digit and then press a numeric button (**1**–**0**) to select the second digit.

Example: To select track 25
Press **+10** twice, then immediately press **5** once.

* If a track number higher than the highest track number on the disc is selected, the last track on the disc will be played.
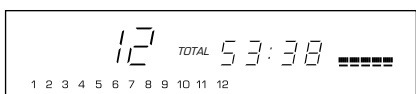
Notes

● After closing the disc tray by pressing **OPEN/CLOSE**, the display shows the total number of tracks and the total recorded time of the disc for a few seconds.

CDX-596

1 2 3 4 5 6 7 8 9 10
11 12

12 *53:38*

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12 TOTAL *53:38*
1 2 3 4 5 6 7 8 9 10 11 12
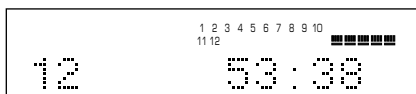
● Additionally, you can close the disc tray by pressing ▷ (▷/❚❚), a numeric button or **RANDOM**, or by pressing the front edge of the disc tray gently. If the tray is closed in one of these ways, play will begin automatically; however, the display will not show the total number of tracks nor the total recorded time of the disc.

● **CDX-596 only**

If you load a CD-TEXT disc, the display also shows the disc title after showing the total number of tracks and the total recorded time of the disc.
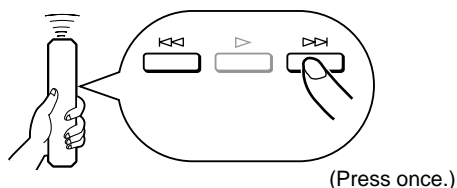
Caution
When the disc tray is open, **do not touch the inside gear wheel**. If you touch the gear wheel, your finger may be caught in the closing tray and injured.
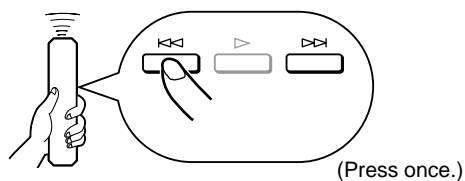
Gear wheel
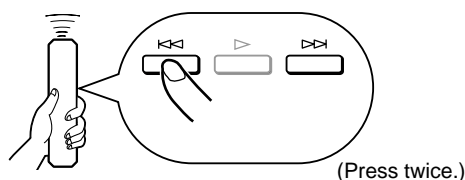
E-9
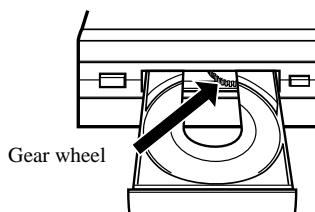
To skip to the beginning of the desired track (SKIP SEARCH)

To play from the beginning of the next track

(Press once.)

To play from the beginning of the current track

(Press once.)

To play from the beginning of the preceding track

(Press twice.)

- These operations can also be performed when the unit is paused or stopped.
- When using ⫷⫷ or ⫸⫸ on the remote control:
  If ⫸⫸ (or ⫷⫷) is pressed and held, the track number is continuously changed to higher numbers (or lower numbers).
- When using ⫷⫷ **SKIP/SEARCH** ⫸⫸ on the front panel:
  Be careful not to press and hold the button, otherwise the selected track is played forward (or backward) rapidly.

To advance or reverse play rapidly (MANUAL SEARCH)

To advance rapidly
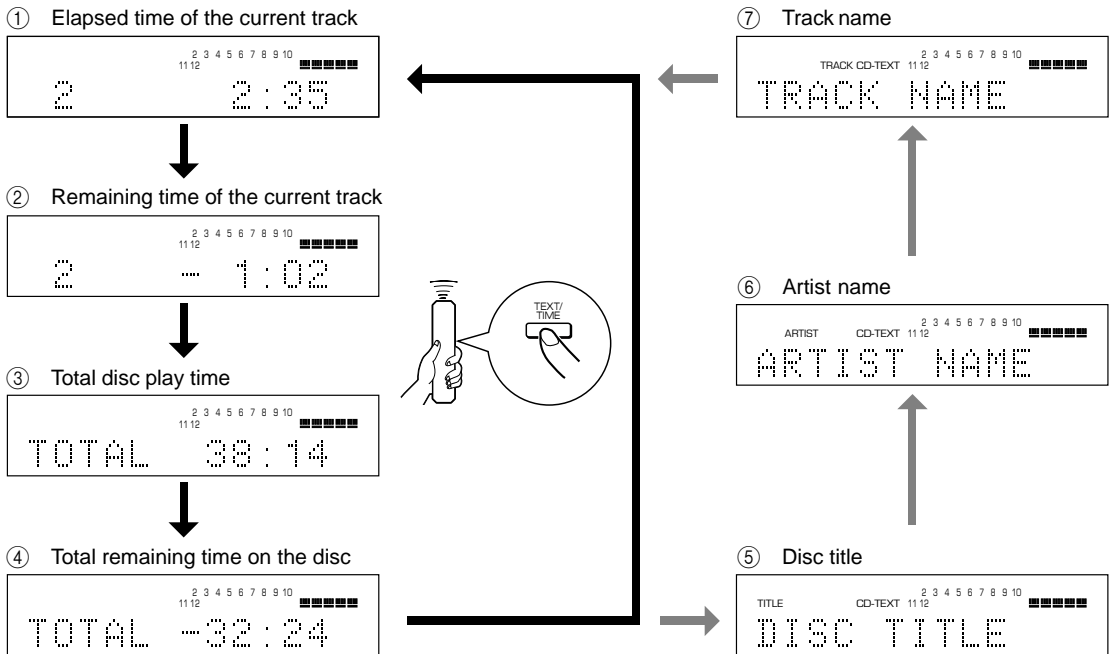
(Press and hold.)
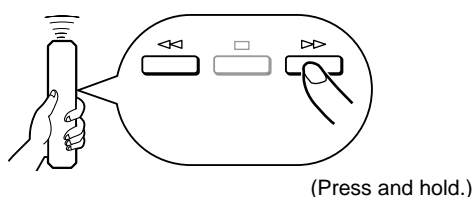
To reverse rapidly

(Press and hold.)
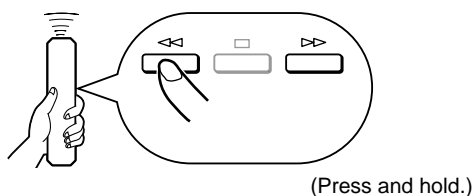
- The sound can be heard (although slightly garbled) during manual search in either direction. This is convenient for locating a precise position within a track, or for reviewing the contents quickly.
- Manual search can also be performed while disc play is paused, though no sound will be heard.
- When using ⫷⫷ **SKIP/SEARCH** ⫸⫸ on the front panel:
  Be careful not to release the button just after it is pressed, otherwise the play is skipped to the beginning of the next track or returned to the beginning of the current track.

E-10

Other useful functions

Changing displays

CDX-596

You can select any of the four time displays (① – ④) by pressing **TEXT/TIME**. When you play a CD-TEXT disc, the disc title, artist name, and track name (⑤ – ⑦) are also displayed.
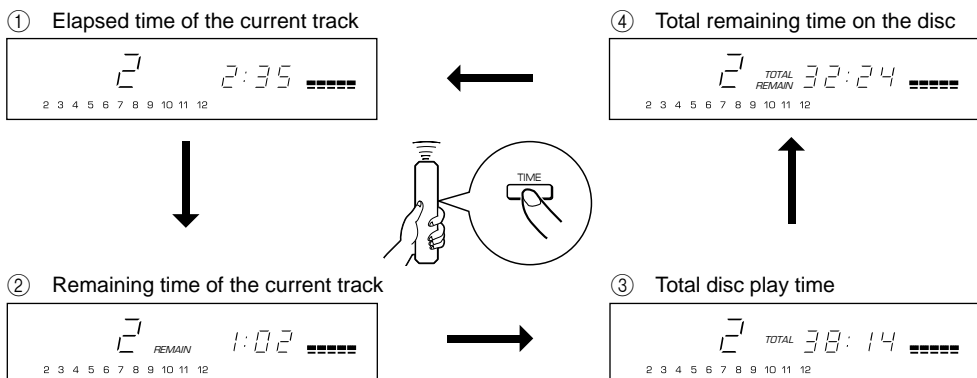
① Elapsed time of the current track

```
        2 3 4 5 6 7 8 9 10
        11 12              ▪▪▪▪▪
2           2:35
```

② Remaining time of the current track

```
        2 3 4 5 6 7 8 9 10
        11 12              ▪▪▪▪▪
2       —   1:02
```

③ Total disc play time

```
        2 3 4 5 6 7 8 9 10
        11 12              ▪▪▪▪▪
TOTAL    38:14
```

④ Total remaining time on the disc

```
        2 3 4 5 6 7 8 9 10
        11 12              ▪▪▪▪▪
TOTAL  —32:24
```

⑦ Track name

```
                 2 3 4 5 6 7 8 9 10
TRACK CD-TEXT  11 12          ▪▪▪▪▪
TRACK NAME
```

⑥ Artist name

```
                     2 3 4 5 6 7 8 9 10
ARTIST   CD-TEXT 11 12        ▪▪▪▪▪
ARTIST NAME
```

⑤ Disc title

```
                  2 3 4 5 6 7 8 9 10
TITLE    CD-TEXT 11 12        ▪▪▪▪▪
DISC TITLE
```

TEXT/TIME

Notes
- The disc title, artist name, or track name may not be displayed with some CD-TEXT discs. In that case, "(NO ENTRY)" appears on the display.
- When playing a CD-TEXT disc, "CD-TEXT" also lights up on displays ① – ④.

CDX-496 and CDX-396

You can select any of the four time displays by pressing **TIME**.

① Elapsed time of the current track

```
2        2:35  ▪▪▪▪▪
2 3 4 5 6 7 8 9 10 11 12
```

④ Total remaining time on the disc

```
2  TOTAL  32:24  ▪▪▪▪▪
   REMAIN
2 3 4 5 6 7 8 9 10 11 12
```

② Remaining time of the current track

```
2  REMAIN  1:02  ▪▪▪▪▪
2 3 4 5 6 7 8 9 10 11 12
```

③ Total disc play time

```
2  TOTAL  38:14  ▪▪▪▪▪
2 3 4 5 6 7 8 9 10 11 12
```
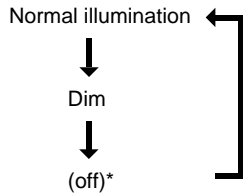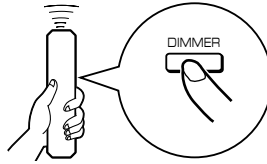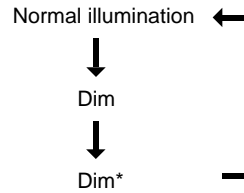
TIME

E-11

Changing brightness of the display

CDX-596

You can change the brightness of the display (or turn off the illumination) by pressing **DIMMER**.
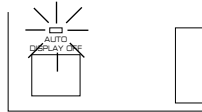
During play

Normal illumination

↓

Dim

↓

(off)*

* While the display illumination is off, the **AUTO DISPLAY OFF** indicator on the front panel lights up.

During a stop or a pause

Normal illumination

↓

Dim

↓

Dim*

* The **AUTO DISPLAY OFF** indicator lights up. If a disc is played in this state, the display illumination will be turned off.

CDX-496, CDX-396

If desired, you can change brightness of the display in three degrees by pressing **DIMMER**.

Normal illumination

↓

Slightly dim

↓

Dim
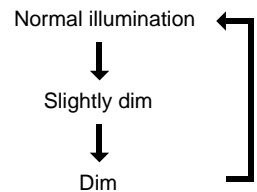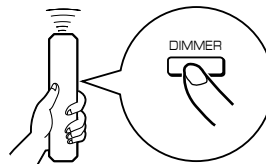
Automatic spacing

If you record a disc onto tape with an insufficient time space between tracks, the tape deck will not be able to perform blank search operations on the tape correctly. To prevent such a search mistake of the deck, press **SPACE** and light up "SPACE" on the display before recording. Spaces of about 4 seconds are inserted between the tracks.

Note

When the automatic spacing function is in effect, the display of the total time and of the total remaining time will include each of the 4 second intervals placed between tracks.
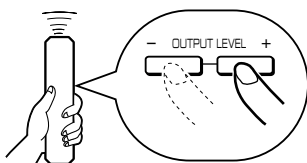
To cancel the automatic spacing function
Press **SPACE**.

SPACE

"SPACE" disappears from the display.
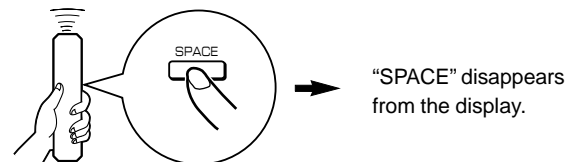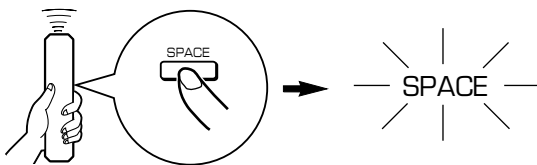
Adjusting the level of signals output to the amplifier and the headphone listening level
CDX-596 and CDX-496 only

You can adjust the level of signals output to the amplifier by pressing **– OUTPUT LEVEL +**.

When you listen with headphones, connect the headphones to the **PHONES** jack and adjust the volume by pressing **– OUTPUT LEVEL +**. At that time, note that this adjustment will also vary the signal level output to the amplifier.
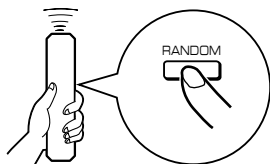
PHONES

E-12
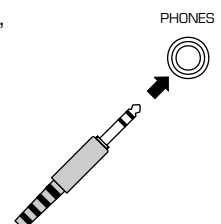
RANDOM-SEQUENCE PLAY

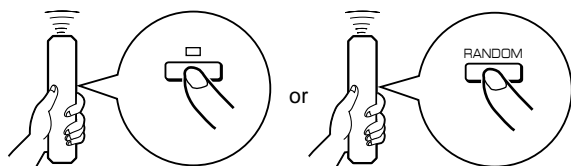The unit can play the tracks on a disc in a random sequence.

To perform random-sequence play
Press **RANDOM.**

To cancel random-sequence play
Press □ or **RANDOM.**

or

Notes

● This feature will not function while programming, or during programmed play.

● If ▷▷▎ (**SKIP/SEARCH ▷▷▎**) is pressed during random-sequence play, the next randomly programmed track will be played. If ▎◁◁ (▎◁◁ **SKIP/SEARCH**) is pressed, play will return to the beginning of the current track.

● 🔁 This indication appears while the unit is mixing up tracks.

● Total remaining time on the disc will not be displayed during random-sequence play.

● **CDX-596 and CDX-496 only**
If the power is switched off during random-sequence play, pressing **POWER** again to turn on the unit will automatically restore random-sequence play.
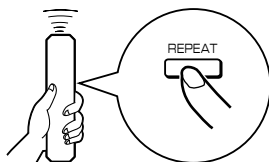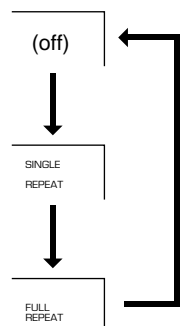
REPEAT PLAY

You can play any desired track or the entire disc repeatedly by pressing **REPEAT**. The repeat play mode will change whenever you press **REPEAT**.

CDX-596

(off)

REPEAT S

REPEAT F

CDX-496, CDX-396

(off)
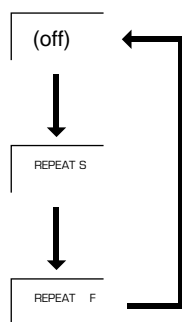
SINGLE
REPEAT

FULL
REPEAT

SINGLE REPEAT (S)
A single track is played repeatedly.
* This also works for programmed play and random-sequence play. (If repeat play is switched off, programmed play or random-sequence play will be resumed.)

FULL REPEAT (F)
All tracks (the entire disc) are played repeatedly.
* During programmed play, all programmed tracks are played repeatedly.
* During random-sequence play, all randomly sequenced tracks are played repeatedly in the same order.

* **CDX-596 and CDX-496 only**
If the power is switched off during FULL REPEAT play, pressing **POWER** again to turn on the unit will automatically restore FULL REPEAT play.

E-13

PROGRAM PLAY

You can enjoy listening to your favorite tracks in any desired order by programming tracks. As many as 40 tracks can be programmed in sequence.

2, 4

3

5

1
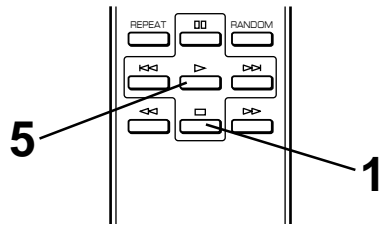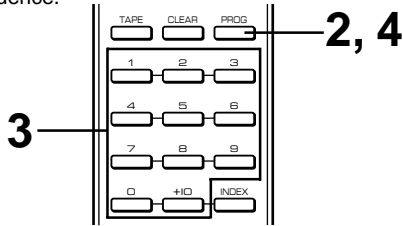
1 Press □ to stop the unit.

2 Press **PROG**.

CDX-596

PROGRAM
STEP 1

Blinks.

CDX-496, CDX-396

PROGRAM
TOTAL P - 01

Blinks.

3 Program a desired track by pressing the corresponding numeric button.

Repeat this operation to program more tracks. You can select the same track again.

4 When programming is finished, press **PROG**.

5 Press ▷ to begin play.

Display information during programming

CDX-596

①

PROGRAM
STEP 1

② ③

PROGRAM
6
6   3:25

④

CDX-496, CDX-396

①

PROGRAM
TOTAL P - 01

② ④

PROGRAM
6   TOTAL 3:25

③

① Shows the program number for the track to be programmed next.
② Shows the selected track number.
③ Shows only the numbers of programmed tracks.
④ Shows the total time of the tracks currently programmed.
   * If the total time becomes 100 minutes or more, the first digit will not be displayed.

Notes
● If, during programming, **TIME** is pressed, the program number display can be changed to display the total time of the programmed tracks. To return to the previous display, press **TIME** once again.
● ◁◁/▷▷◁ (◁◁ **SKIP/SEARCH** ▷▷◁) can be used during playing, but only within the range of the programmed tracks.
● ◁◁/▷▷ (◁◁ **SKIP/SEARCH** ▷▷) can be used during playing to search all tracks, including unprogrammed tracks.

E-14

To stop program play

Press □. The first programmed track number will be displayed.
To resume play, press ▷. Play will begin from the beginning of the program.

To clear program data

There are several methods, as described below.
● Press □ or **CLEAR** while the unit is stopped.
● Open the disc tray.
● Switch off the power.

To check program data

1. If during program play, press □.
2. Press **PROG**.
3. Each time ▷▷| (**SKIP/SEARCH** ▷▷|) is pressed, the track numbers and sequential order of the programmed tracks can be checked one after another. The display of the track number can be returned (sequentially in reverse order) by pressing |◁◁ (|◁◁ **SKIP/SEARCH**).
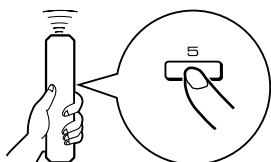
To correct program data

1. Follow the procedure described in "To check program data".
2. Display the track number to be corrected by pressing |◁◁/▷▷| (|◁◁ **SKIP/SEARCH** ▷▷|).
3. Press a numeric button to select a desired track to replace the one displayed. The previously programmed track will be cleared from the memory, and the new one will be programmed.
4. Press **PROG** to complete the correction. To begin play immediately after making the correction, press ▷ instead of pressing **PROG**.
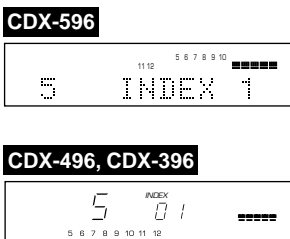
INDEX SEARCH

If the disc includes index numbers, play can be started from any desired index number.

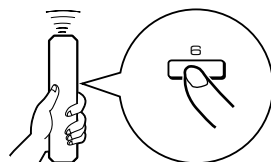**1** Press a numeric button to select a track which has index numbers.

2 Press **INDEX.**

CDX-596


```
          1112   5 6 7 8 9 10
  5      INDEX 1
```

CDX-496, CDX-396


```
  5        INDEX
           01
  5  6  7  8  9  10 11 12
```

3 Press a numeric button to select the desired index number.

### To cancel the index search function
Press **INDEX**.

Notes
● Not all discs have index numbers. In addition, among those discs which have index numbers, not all discs necessarily have more than one index number.
● The index system is a method for sub-dividing tracks into smaller divisions for easier location of those parts. The liner notes contained in the disc case usually tell that such index numbers are included with the [IN:DEX] mark.
● If an index number is selected that is higher than any index number on that disc, play will start from the last index point on the disc.
● For some discs, play may begin slightly prior to the actual designated index point.
● If the disc has no encoded index points, play will begin from the beginning of the selected track.
● The index number can be designated only while "INDEX" is illuminated.

TRACK PROGRAMMING FOR RECORDING TO TAPE

The unit can program tracks on a disc for recording onto tape. By considering the tape's total possible recording time, the unit will automatically program tracks or help you program tracks so they will fit onto the tape with the least amount of unrecorded space at each end of the tape.

■ Automatic tape-programming

The unit will automatically program tracks on a disc with their original order.
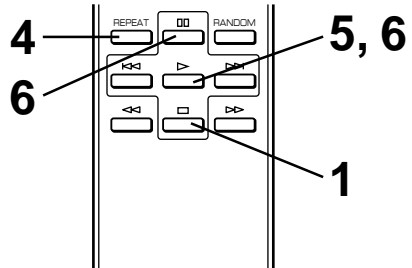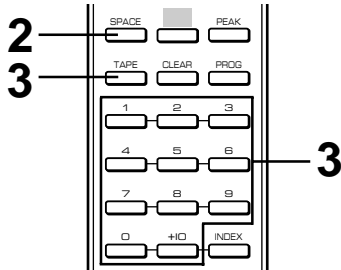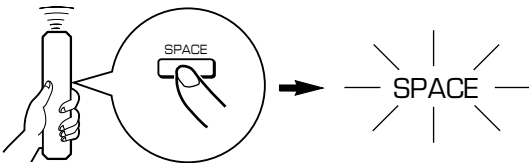
1 Press □ to stop the unit.
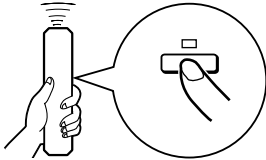
* The peak level search function of this unit is useful for adjusting recording level on the tape deck. (Refer to page 20.)
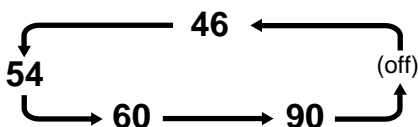
2 If desired, you can automatically insert additional time space between tracks by pressing **SPACE** to light up "SPACE" on the display. (Refer to page 12.)

SPACE → — SPACE —

3 Press **TAPE** to show the tape's total possible recording time on the display.

CDX-596
"TAPE 46" turns on.

CDX-496, CDX-396
"C-46" turns on.
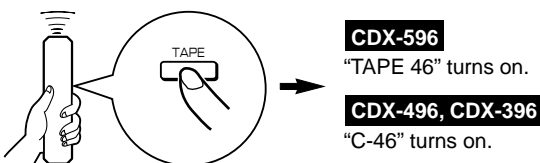
You can select any of the four tape lengths by pressing **TAPE**.

46
54   (off)
60 → 90

If desired, you can also enter the tape's total possible recording time manually.
Example: For a C-64 tape (32 minutes on each side), press "6" and "4".
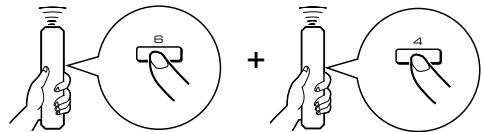
4 Press **REPEAT**.

REPEAT
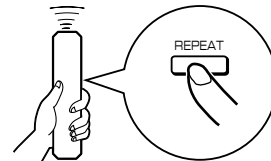
The unit automatically programs tracks for both side A and side B considering the tape's total time.

5 Begin recording on the tape deck, and then press ▷ on this unit.

6 The unit will pause at the end of side A of the tape. Turn the tape over to side B. Resume recording, and then press ▷ or ▯▯ on this unit.

E-16

Notes
- In step 4, you can check the program data for side A and side B.

CDX-596

CDX-496, CDX-396

1 Shows the number of tracks programmed on each side right after the programming is finished. It is then replaced by the number of the first programmed track on side A.
2 Shows the programmed track numbers on each side.
3 Shows the total time of programmed tracks on each side.
4 Shows the side of the tape.

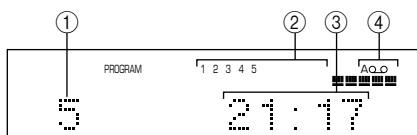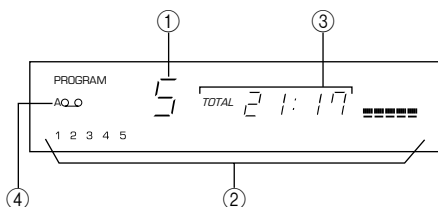- All tracks may not be programmed if the tape's length is not enough. To program all tracks, use a tape that is longer than the actual playing time.
- To check, cancel or correct program data, refer to page 15.
  * When checking program data, note that "PAUSE" or "Pu" appears between track numbers for side A and side B.
- Up to 40 tracks can be programmed. A pause inserted between side A and B is counted as one track.
- CD synchronized recording function can be used if your tape deck is compatible with it. If so, in step 5 and 6, press **SYNCHRO** and then press ▷ on this unit's remote control. Recording automatically begins. (For details, refer to page 21.)

E-17

■ Manual tape-programming

This is for recording desired tracks in any order onto a tape.

4 ———— TAPE

2 ———— PROG

3, 5 ———— (numeric buttons)

7 ———— ⏸

6, 7 ———— ▷

---

1 Follow steps 1 – 3 on page 16.

2 Press **PROG**.

CDX-596

Blinks.

Blinks.

CDX-496, CDX-396

Blinks.
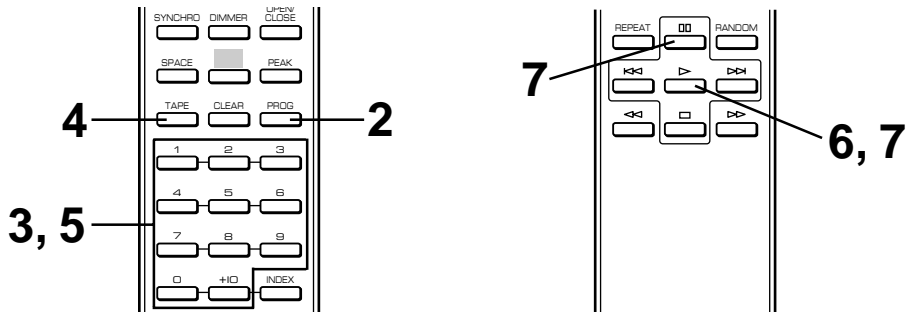
3 Use numeric buttons to select desired tracks (to be recorded on side A) in any order.
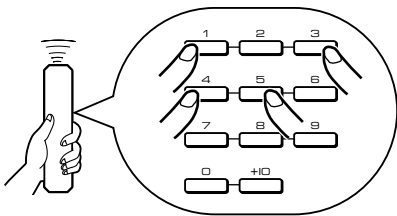
* Programmed track numbers light up on the display. You can select a track which can be programmed for the remaining time on side A from track numbers flashing on the display. You cannot, however, select a track number extinguished from the display.

4 When track selection for side A is finished, press **TAPE**.
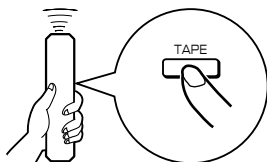
A pause is inserted.

---

5 Use numeric buttons to select the track numbers (to be recorded on side B) in any order.
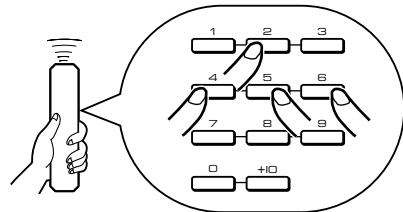
6 Begin recording on the tape deck, and then press ▷ on this unit.

7 The unit will pause at the end of side A of the tape. Turn the tape over to side B. Resume recording, and then press ▷ or ⏸ on this unit.

Notes
- If, in step 3 or 5, "ERROR" or "E rr" appears on the display, the track number just selected cannot be programmed because there is not enough time remaining on the tape. However, at this time, if any other track number is flashing continuously on the display, you can program it instead of the unprogrammable one.
- In step 3 or 5, each time a selection is made, the track number and the tape's remaining time will be displayed, and then the display will change to indicate the next program number.
- To check, cancel or correct program data, refer to page 15.
  * When checking program data, note that "PAUSE" or "Pu" appears between track numbers for side A and side B.
- Up to 40 tracks can be programmed. If, however, a pause is inserted, it is counted as one track.
- CD synchronized recording function can be used if your tape deck is compatible with it. If so, in step 6 and 7, press **SYNCHRO** and then press ▷ on this unit's remote control. Recording automatically begins. (For details, refer to page 21.)
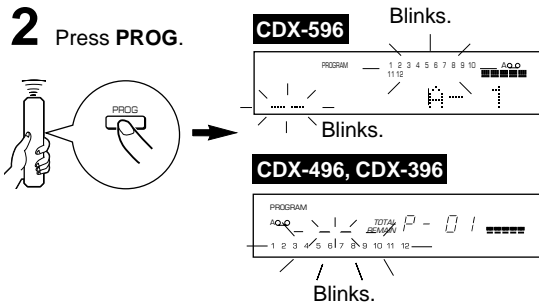
■ **Random sequential tape-programming**

The unit will automatically program tracks in random sequential order for recording to tape.

1 Follow steps 1 – 3 on page 16.

2 Press **RANDOM**.

* The unit will automatically program tracks at random for both side A and side B considering the tape's total time.

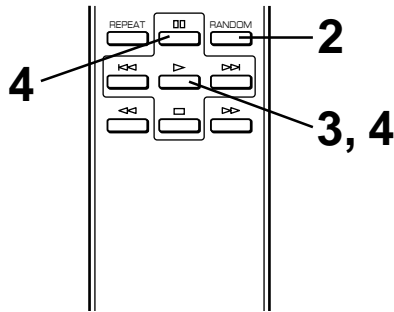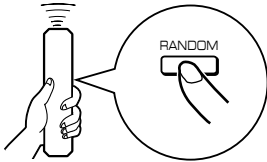**3** Begin recording on the tape deck, and then press ▷ on this unit.

4 The unit will pause at the end of side A of the tape. Turn the tape over to side B. Resume recording, and then press ▷ or ▯▯ on this unit.

Notes
● Because programmed data changes every time **RANDOM** is pressed, the unrecorded space at the end of each side of the tape also varies accordingly.
● All tracks may not be programmed if the tape's length is not enough. To program all tracks, use a tape that is longer than the actual playing time.
● In step 2, you can check the program data for side A and side B.
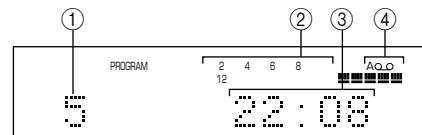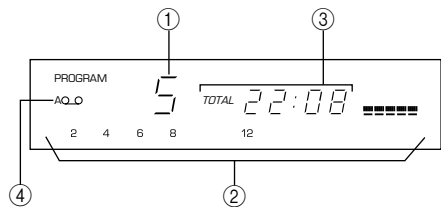
CDX-596

CDX-496, CDX-396

① Shows the number of tracks programmed on each side right after the programming is finished. It is then replaced by the number of the first programmed track on side A.
② Shows the programmed track numbers on each side.
③ Shows the total time of programmed tracks on each side.
④ Shows the side of the tape.

● Up to 40 tracks can be programmed. A pause inserted between side A and B is counted as one track.
● CD synchronized recording function can be used if your tape deck is compatible with it. If so, in step 3 and 4, press **SYNCHRO** and then press ▷ on this unit's remote control. Recording automatically begins. (For details, refer to page 21.)

Automatic searching for the peak level on a disc

The unit automatically searches for a part in the disc where the source level peaks and next plays that part repeatedly. When recording to tape, this feature is very helpful for adjusting the recording level on the tape deck.

1 Press ⬜ to stop the unit.
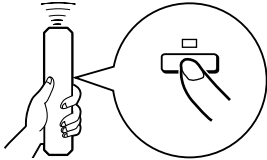
2 Press **PEAK**.
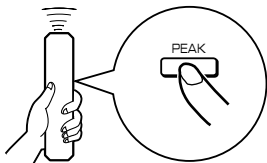
"PEAK" lights up on the display, and the peak level search is performed on the disc.
It takes a few minutes to search for the peak level.

Next, the part where the source level peaks is repeatedly played. Adjust the recording level on the tape deck listening to this sound.

CDX-596

REPEAT		8 9 10
11 12		▪▪▪▪▪
8	0 : 44	

REPEAT		8 9 10
11 12		▪▪▪▪▪
PEAK	___ : ___	

CDX-496, CDX-396

	PEAK	
8	0:44	REPEAT ▪▪▪▪▪
8 9 10 11 12		
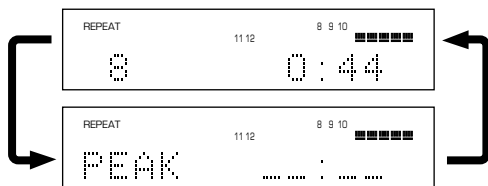
	PEAK	
8	__:__	REPEAT ▪▪▪▪▪
8 9 10 11 12		
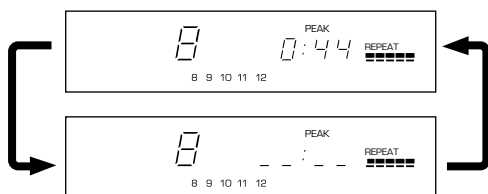
To cancel the peak level search function
Press ⬜. (Some other buttons can also be used.)

Notes
● Even if the peak level search is performed several times on the same disc, the same part will not be always selected. That is because the unit searches for the peak level among parts of the disc that are randomly selected by the internal microcomputer.
● In the program play mode, this feature will function among the programmed tracks only. If program play is being performed, first press ⬜, and then press **PEAK**. If program play is not being performed, only press **PEAK**.

E-20

CD SYNCHRONIZED RECORDING

This unit can automatically synchronize a tape deck's recording with CD play. With this function, you can record a CD on tape easily and precisely.

This recording method requires a YAMAHA tape deck compatible with this function. (Refer to the tape deck's operation manual to find out whether it is compatible or not.)

* This unit and the tape deck must be placed close to each other so that both of them can simultaneously receive the signals from this unit's remote control.
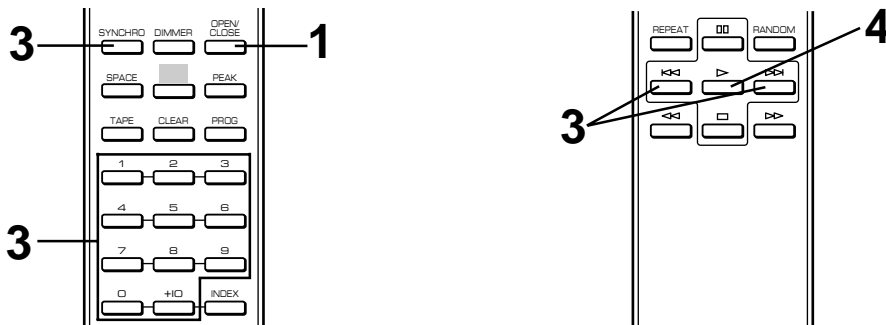
1 Press **OPEN/CLOSE** to open the disc tray, and load a disc.
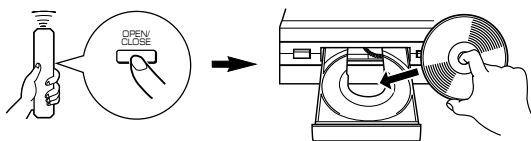
2 Load a tape on the tape deck.

* The peak level search function of this unit is useful for adjusting recording level on the tape deck. (Refer to page 20.)

3 Press **SYNCHRO**.
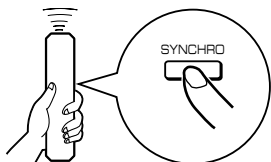
This unit enters into the pause mode, and the tape deck enters into the REC/PAUSE mode.

* In this state, the time display on this unit flashes on and off.

If necessary, select a desired track by pressing a numeric button or ⏮/⏭ (⏮ **SKIP/SEARCH** ⏭).

or
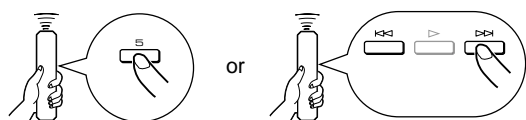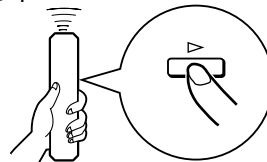
4 Press ▷.

Both CD play and tape deck recording begin.

* CD play begins shortly after the recording.

5 If you want to stop recording temporarily and restart recording from a desired track, stop this unit by pressing ☐, and the tape deck as well, then follow steps 3–4 again.

To cancel synchronized CD-tape recording function

Press ☐.

Notes

● To finish or stop the recording, make proper operations on the tape deck. (For details, please refer to the owner's manual of the tape deck.)

● Programmed sequence of tracks can also be recorded with this function instead of recording an entire disc. (Refer to pages 14–15 for the programming procedure.)

● This function can also be used together with the automatic tape-programming function. (Refer to pages 16–19.)

E-21

TROUBLESHOOTING

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help.

SYMPTOM	PROBABLE CAUSE	REMEDY
The unit does not switch ON when POWER is pressed.	The power cord is not connected nor completely connected.	Securely connect the power cord.
The disc tray does not close completely.	A foreign object is obstructing the tray.	Carefully check the disc tray and remove the foreign object.
Play does not begin.	The disc is damaged.	Check the disc carefully; replace it if necessary.
	There is moisture on the laser pickup.	Wait 20 to 30 minutes after switching the unit ON before trying to play a disc.
	The disc is loaded upside down.	Reload the disc with the label side up.
	The disc is dirty.	Clean the disc.
	The CD-RW (ReWritable) disc is not recorded correctly.	Replace the disc with a correctly-recorded disc playable with this unit.
	The disc is a non-standard disc not playable with this unit.	
Play is delayed, or begins at the wrong place.	The disc may be scratched or damaged.	Check the disc carefully; replace it if necessary.
No sound.	Improper output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.
	Improper amplifier operation.	Set the amplifier controls to the correct input selection.
	The − OUTPUT LEVEL + buttons are set at minimum. (CDX-596 and CDX-496 only)	Adjust the volume by using the − OUTPUT LEVEL + buttons. (CDX-596 and CDX-496 only)
Sound "skips".	The unit is being subjected to vibrations or impacts.	Relocate the unit.
	The disc is dirty.	Clean the disc.
Sound "hums".	Improper cable connections.	Securely connect the audio cables. If the problem persists, the cables may be defective.
Noise from a nearby tuner.	The tuner is too close to the unit.	Move the tuner and the main unit farther apart.
Noise from inside of the disc tray.	The disc may be warped.	Replace the disc.
No sound from the headphones. (CDX-596 and CDX-496 only)	The − OUTPUT LEVEL + buttons are set at minimum.	Adjust the volume by using the − OUTPUT LEVEL + buttons.
The remote control does not work.	The batteries of the remote control are too weak.	Replace the batteries with new ones.
	Remote control is too far away or tilted too much.	Use within 6 m (19.7 ft.) and 60° radius.
	Direct sunlight or lighting (of an inverter type flourescent lamp etc.) is striking the remote control sensor of the main unit.	Reposition the main unit.
TV functions strangely when the remote control is used.	Remote control is being used near TV set with a remote control sensor.	Relocate the main unit away from the TV or cover TV's remote control sensor.

E-22

SPECIFICATIONS

Audio Section

Frequency response .... 2 Hz – 20 kHz, ±0.5 dB

Harmonic distortion + noise (1 kHz)
   <CDX-596> .... 0.0025% or less
   <CDX-496, CDX-396> .... 0.003% or less

S/N ratio
   <CDX-596> .... 115 dB or more
   <CDX-496, CDX-396> .... 105 dB or more

Dynamic range
   <CDX-596> .... 100 dB or more
   <CDX-496, CDX-396> .... 95 dB or more

Wow & flutter .... Unmeasurable

Output voltage (1 kHz, 0 dB) .... 2.0±0.5V

Headphones output (–20 dB)
   <CDX-596 and CDX-496 only>
   .... 200±40 mV/150 ohms

Laser Diode Properties

Material ....GaAlAs

Wavelength .... 780 nm

Emission Duration .... continuous

Laser Output .... max. 44.6 μW*

* This output is the value measured at a distance of about
  200 mm from the objective lens surface on the Optical
  Pick-up Block.

General

Power requirements
   U.S.A. and Canada models .... 120V, 60 Hz
   Australia model .... 240V, 50 Hz
   Europe and U.K. models .... 230V, 50 Hz
   General model .... 110/120/220/240V, 50/60 Hz

Power consumption
   <CDX-596> 10W
   <CDX-496, CDX-396> 9W

Dimensions (W x H x D) .... 435 x 96 x 277 mm
                           (17-1/8" x 3-3/4" x 10-7/8")

Weight .... 3.7 kg (8 lbs. 2 oz.)

Accessories .... RCA pin cable x 1
                                       Remote control
               Battery (size AA, R6, UM-3) x 2

Please note that all specifications are subject to change
without notice.

YAMAHA

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