

Compact Disc Player

Operating Instructions

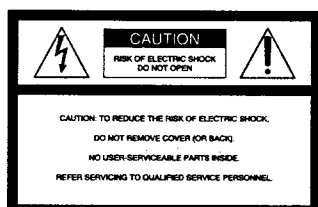


CDP-CE505
CDP-CE405
CDP-CE305
CDP-C450Z
CDP-C350Z
CDP-C250Z
CDP-C661

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.



This symbol 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.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

Owner's Record

The model and serial numbers are located at the rear of the unit.

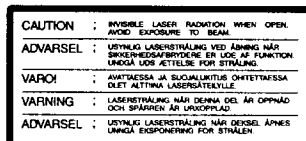
Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

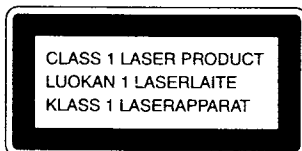
For the customers in Australia

The following caution label is located inside the unit.



This appliance is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



Precautions

On safety

- Caution — The use of optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

- Before operating the player, check that the operating voltage of the player is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the player.
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- AC power cord must be changed only at the qualified service shop.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

On adjusting volume

- Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

On cleaning

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Welcome!

Thank you for purchasing the Sony Compact Disc Player. Before operating the unit, please read this manual thoroughly and retain it for future reference.

About This Manual

The instructions in this manual are for models CDP-CE505, CDP-CE405, CDP-CE305, CDP-C450Z, CDP-C350Z, CDP-C250Z and CDP-C661. The CDP-CE505 is the model used for illustration purposes, unless otherwise mentioned. Any difference in operation is clearly indicated in the text, for example, "CDP-CE505 only."

Conventions

- Instructions in this manual describe the controls on the player. You can also use the controls on the remote if they have the same or similar names as those on the player.
- The following icons are used in this manual:



Indicates that you can do the task using the remote. (Note that the CDP-CE305, CDP-C250Z and CDP-C661 cannot do the tasks marked with this icon.)



Indicates hints and tips for making the task easier.

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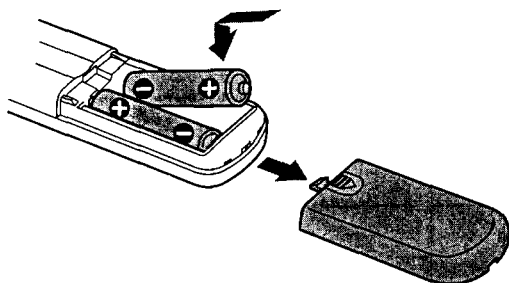
Unpacking

Check that you received the following items:

- Audio connecting cord (1)
- Remote commander (remote) (except for CDP-CE305, CDP-C250Z and CDP-C661) (1)
- Sony SUM-3 (NS) batteries (except for CDP-CE305, CDP-C250Z and CDP-C661) (2)

Inserting batteries into the remote (except for CDP-CE305, CDP-C250Z and CDP-C661)

You can control the player using the supplied remote. Insert two R6 (size AA) batteries by matching the + and - on the batteries. When using the remote, point it at the remote sensor  on the player.



When to replace batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones.

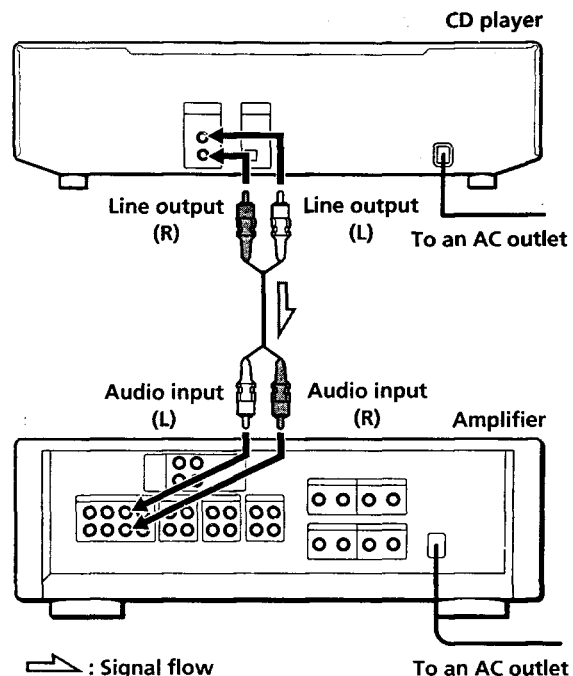
Notes

- Do not leave the remote near an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Hooking Up the System

Overview

This section describes how to hook up the CD player to an amplifier. Be sure to turn off the power of each component before making the connections.



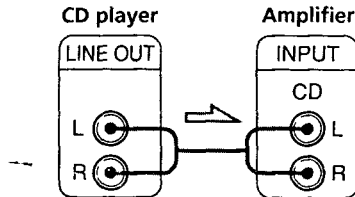
What cords will I need?

Audio cord (supplied) (1)



Hookups

When connecting an audio cord, be sure to match the color-coded cord to the appropriate jacks on the components: Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.



You can adjust the output level to the amplifier (except for CDP-CE305, CDP-C250Z and CDP-C661)

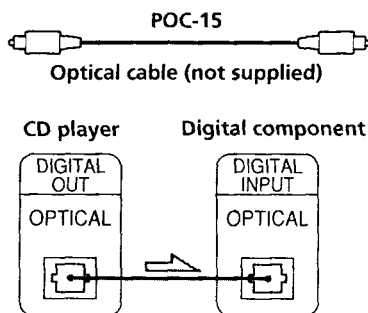


Press LINE OUT LEVEL +/- on the remote. You can reduce the output level up to -20 dB. When you reduce the output level, [FADE] appears in the display. When you turn off the player, the output level automatically returns to the maximum level.

Note

If you press the LINE OUT LEVEL +/- buttons on the remote while recording, the recording level will change even when it is preset on the tape deck, etc. (except for CDP-CE305, CDP-C250Z and CDP-C661).

- If you have a digital component such as a digital amplifier, D/A converter, DAT or MD (CDP-CE505 and CDP-C450Z only)**
Connect the component via the DIGITAL OUT (OPTICAL) connector using the optical cable (not supplied). Take off the cap and plug in the optical cable.
Note that you cannot use fading in or out (page 14) and Time Fade (page 15) functions when making this connection.



Note

When you connect via the DIGITAL OUT (OPTICAL) connector, noise may occur when you play CD software other than music, such as a CD-ROM.

If you have a component with the CONTROL A1 connector (CDP-CE505 only)

Connect the component via the CONTROL A1 connector. You can control the player with the connected component. For details, refer to the supplementary instructions.

Connecting the AC power cord

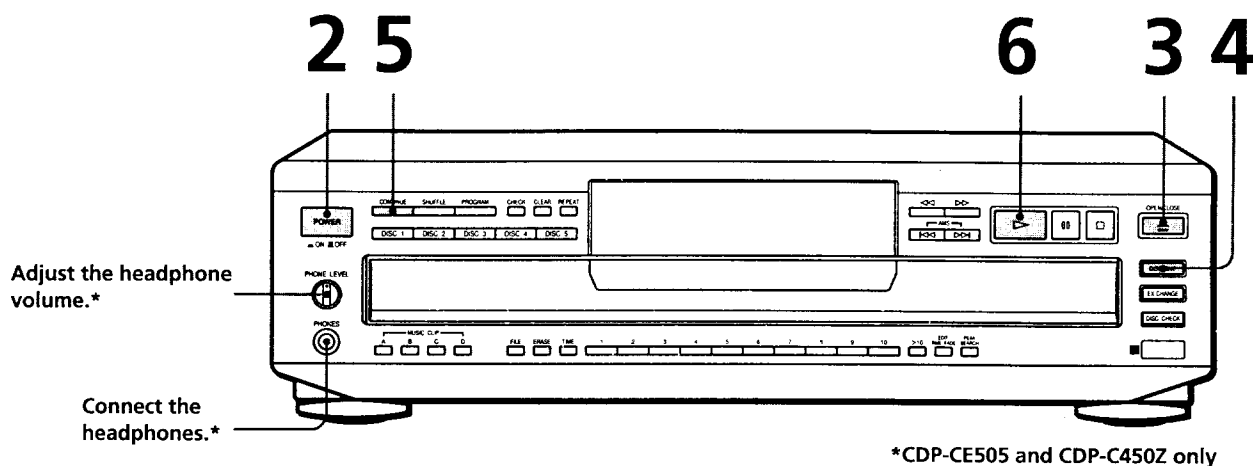
Connect the AC power cord to a wall outlet.

Transporting the player

Before transporting the player, follow the procedure below to return the internal mechanisms back to their original position.

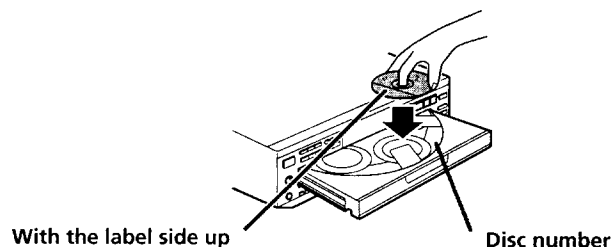
- 1 Remove all the discs from the disc tray.
- 2 Press \triangle OPEN/CLOSE to close the disc tray. "no DISC" appears in the display.
- 3 Wait for 10 seconds, then press POWER to turn off the player.

Playing a CD




- See pages 4 – 5 for the hookup information.


- 1 Turn on the amplifier and select the CD player position so that you can listen to the sound from this player.
- 2 Press POWER to turn on the player.
- 3 Press \triangle OPEN/CLOSE, and place a disc on the disc tray.






- 4 To place other discs, press DISC SKIP and place the discs in the order you want to play.
Each time you press the button, the disc tray turns and you can place the discs in the empty disc compartments. The player plays the disc in front of you first.
- 5 Press CONTINUE to select ALL DISCS or 1 DISC Continuous Play mode.
Each time you press CONTINUE, "ALL DISCS" or "1 DISC" appears in the display.

When you select	The player plays
ALL DISCS	All discs in the player consecutively in the order of disc number
1 DISC	Only the disc you've selected

 You can select the disc you want to start playing first. Press one of the DISC 1-5 buttons.

 When listening with the headphones (CDP-CE505 and CDP-C450Z only)
Connect the headphones to the PHONES jack on the player and adjust the volume with the PHONE LEVEL control on the player or with the LINE OUT LEVEL +/- buttons on the remote.

 You can adjust the output level to the amplifier (except for CDP-CE305, CDP-C250Z and CDP-C661) 
Press LINE OUT LEVEL +/- on the remote. You can reduce the output level up to -20 dB.


When you reduce the output level,  appears in the display.

When you turn off the player, the output level automatically returns to the maximum level.

Note


If you press the LINE OUT LEVEL +/- buttons on the remote while recording, the recording level will change even when it is preset on the tape deck, etc. (except for CDP-CE305, CDP-C250Z and CDP-C661).

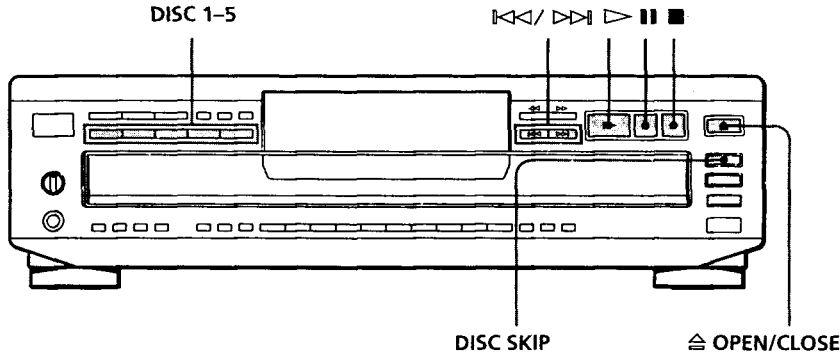
6







Press .

The disc tray closes and the player plays all the tracks once (Continuous Play). Adjust the volume on the amplifier.

To stop playback

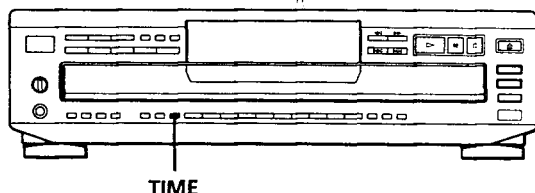
Press .



To	Press
Pause	
Resume play after pause	 or 
Go to the next track	
Go back to the preceding track	
Go to the next disc	DISC SKIP
Select a disc directly	DISC 1-5
Stop play and remove the CD	

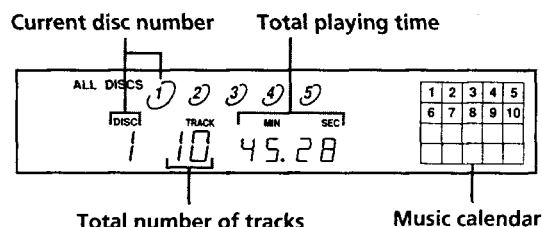
Using the Display

You can check information about the disc using the display.



Checking the total number and playing time of the tracks

Press TIME before you start playing.
The display shows the current disc number, the total number of tracks, total playing time and music calendar.



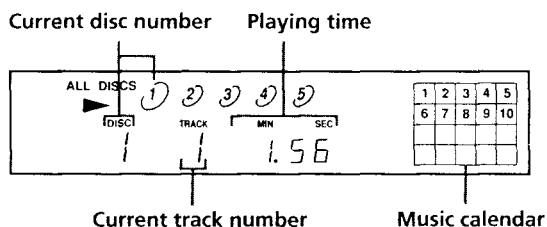
The information also appears when you press \square OPEN/CLOSE to close the disc tray.
The tracks numbered over 20 cannot be displayed in the music calendar.

Notes on the disc number indications

- The red circle around a disc number indicates the disc is ready to be played.
- When all the tracks on a disc have been played, the semi-circle around the disc number disappears.
- When a disc compartment is recognized as empty, the semi-circled disc number disappears.

Display information while playing a disc

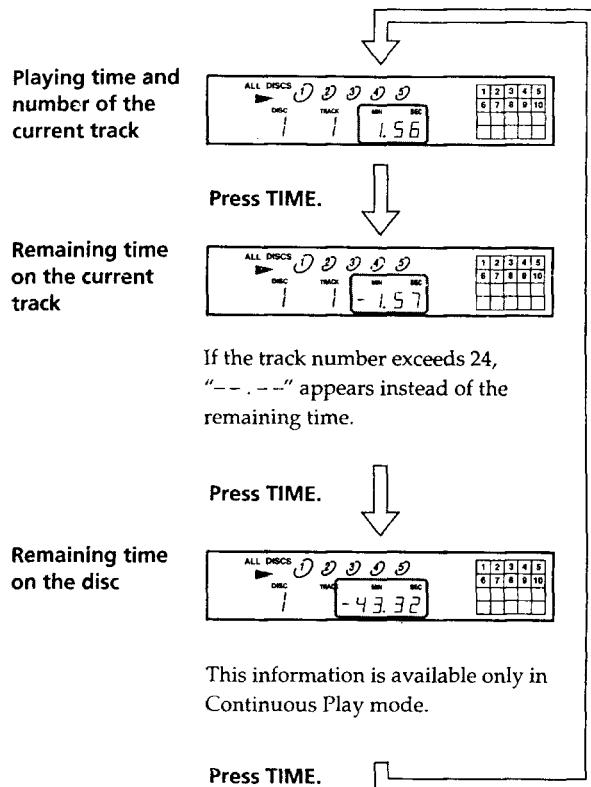
While playing a disc, the display shows the current disc number, track number, playing time of the track and the music calendar.



The track numbers in the music calendar disappear after they are played.

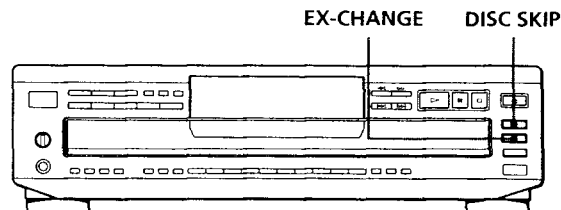
Checking the remaining time

Each time you press TIME while playing a disc, the display changes as shown in the chart below.



Replacing Discs While Playing a Disc

You can open the disc tray while playing a disc so that you can check what discs are to be played next and replace discs without interrupting playback of the current disc.



- 1 Press EX-CHANGE.
The disc tray opens and two disc compartments appear. Even if the player is playing a disc, it doesn't stop playing.
- 2 Replace discs in the compartments with new ones.
The player plays the disc on the left side compartment after the current disc, and then the one on the right side compartment.

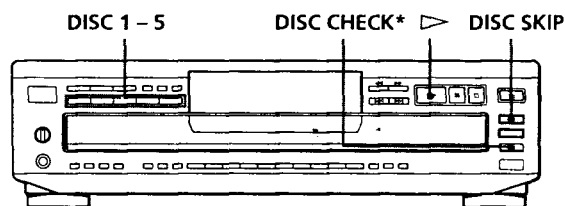
- 3 Press DISC SKIP.
The disc tray turns and other two disc compartments appear.
- 4 Replace discs in the compartments with new ones.
- 5 Press EX-CHANGE.
The disc tray closes.

While the disc tray is open by pressing EX-CHANGE

- If the playback of the current disc ends, the player stops playing. If the disc is played in 1 DISC Repeat Play mode (see page 10), the current disc starts playing again.
- In ALL DISCS Shuffle Play mode (see page 10), tracks are reshuffled on the current disc.
- In Programme Play mode (see page 11), only the tracks on the current disc are played.
- Do not push the disc tray to close it in Step 5, as you may damage the player.

Locating a Specific Disc

You can locate any disc before or while playing a disc.



*except for CDP-C450Z, CDP-C350Z and CDP-C250Z

To locate	Press
The next disc	DISC SKIP while playing a disc
A specific disc directly	DISC 1 - 5
A disc while checking the labels (except for CDP-C450Z, CDP-C350Z and CDP-C250Z)	DISC CHECK while the disc tray is open. The disc tray turns to show you each disc label. When the disc you want comes in front of you, press ▷ to start playing.
A disc by scanning the first track of each disc for 10 seconds (except for CDP-C450Z, CDP-C350Z and CDP-C250Z)	DISC CHECK before you start playing while the disc tray is closed. When you find the disc you want, press ▷ to start playing.

💡 You can extend the playing time during scanning the discs

Press DISC CHECK repeatedly until the playing time you want (10, 20 or 30) appears in the display. Each time you press the button, the playing time changes cyclically.

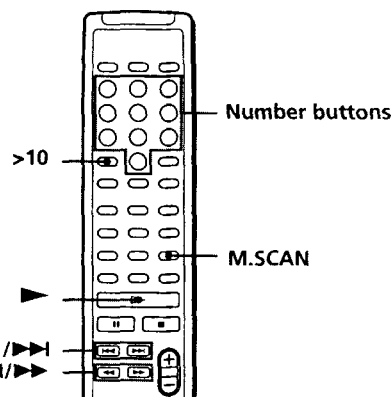
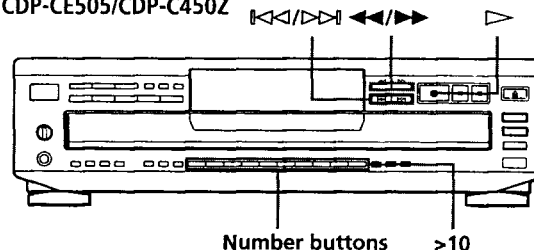
Notes

- When you press DISC CHECK, the play mode automatically changes to ALL DISCS Continuous Play mode.
- When you've opened the disc tray by pressing EX-CHANGE, you cannot use the DISC CHECK function.
- Even if you press DISC CHECK while "REPEAT" appears in the display (see page 10), the player stops after scanning all the discs once.

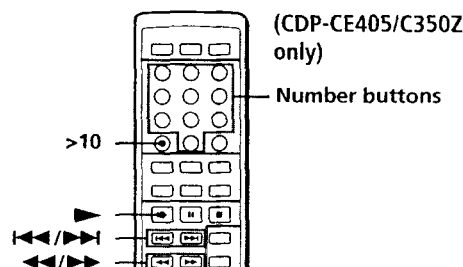
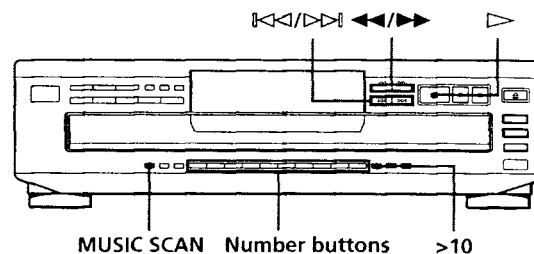
Locating a Specific Track or a Point in a Track

You can quickly locate any track while playing a disc using the ◀◀/▶▶ (AMS: Automatic Music Sensor) buttons or number buttons. You can also locate a specific point in a track while playing a disc.

• CDP-CE505/CDP-C450Z



• CDP-CE405/CE305/C350Z/C250Z/C661



To locate	Press
The next or succeeding tracks	▶▶ repeatedly until you find the track
The current or preceding tracks	◀◀ repeatedly until you find the track
A specific track directly	Number button of the track
A track by scanning each track for 10 seconds (Music Scan)	MUSIC SCAN before you start playing. (For CDP-CE505 or CDP-C450Z, press M. SCAN on the remote.) When you find the track you want, press ▶ to start playing.
A point while monitoring the sound	▶▶ (forward) or ◀◀ (backward) and hold down until you find the point
A point quickly by observing the display during pause	▶▶ (forward) or ◀◀ (backward) and hold down until you find the point. You will not hear the sound during the operation.

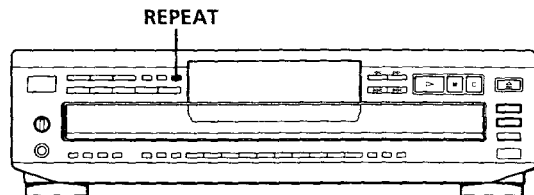
💡 When you directly locate a track numbered over 10
 Press >10 first, then the corresponding number buttons.
 To enter "0," use button 10.
 Example: To play track number 30
 Press >10 first, then 3 and 10.

💡 You can extend the playing time during Music Scan
 Press MUSIC SCAN repeatedly until the playing time you want (10, 20 or 30) appears in the display. (For CDP-CE505 or CDP-C450Z, press M. SCAN on the remote.) Each time you press the button, the playing time changes cyclically.

Note
 If "7 7" appears in the display, the disc has reached the end while you were pressing ▶▶. Press ◀◀ or ◀◀ to go back.

Playing Tracks Repeatedly

You can play discs/tracks repeatedly in any play mode.



Press REPEAT while playing a disc. "REPEAT" appears in the display. The player repeats the discs/tracks as follows:

When the disc is played in	The player repeats
Continuous Play (ALL DISCS) (page 6)	All the tracks on all discs
Continuous Play (1 DISC) (page 6)	All the tracks on the current disc
Shuffle Play (ALL DISCS) (page 10)	All the tracks on all discs in random orders
Shuffle Play (1 DISC) (page 11)	All the tracks on the current disc in random orders
Program Play (page 11)	The same program

To cancel Repeat Play

Press REPEAT repeatedly until "REPEAT" disappears from the display.

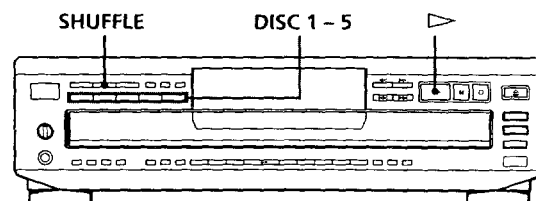
Repeating the current track

You can repeat only the current track while the disc is played in Continuous Play.

While the track you want is being played, press REPEAT repeatedly until "REPEAT 1" appears in the display.

Playing in Random Order (Shuffle Play)

You can have the player "shuffle" tracks and play in a random order. The player shuffles all the tracks on all discs or on the disc you've specified.



Shuffle Play on all discs

You can play all tracks on all discs in a random order.

- 1 Press SHUFFLE repeatedly until "ALL DISCS" appears in the display.
- 2 Press ▶ to start ALL DISCS Shuffle Play. The [] indication appears while the player is "shuffling" the tracks.

To cancel Shuffle Play

Press CONTINUE.

You can start Shuffle Play while playing
Press SHUFFLE, and Shuffle Play starts from the current track.

You can specify discs during Shuffle Play (Select Shuffle Play)
You can specify discs during ALL DISCS Shuffle Play mode, and the tracks on the specified discs are played in a random order.
Press DISC 1 – 5 to specify the discs after Step 1.
Semi-circles appear around the specified disc numbers in the display. To cancel the selected discs, press DISC 1 – 5 again. The semi-circles disappear.
To return to ALL DISCS Shuffle Play, press SHUFFLE twice.

Shuffle Play on one disc

You can play all tracks on the specific disc in a random order.

- 1 Press SHUFFLE repeatedly until "1 DISC" appears in the display.
- 2 Press DISC 1 – 5 to start 1 DISC Shuffle Play on the selected disc.
The [] indication appears while the player is "shuffling" the tracks.

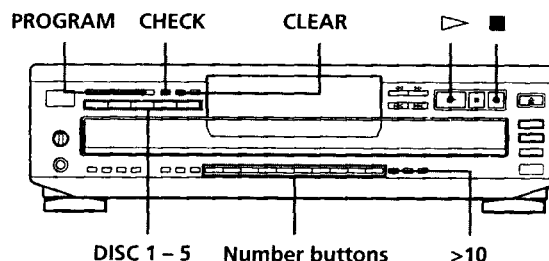
To cancel Shuffle Play

Press CONTINUE.

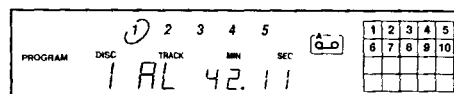
You can start Shuffle Play while playing
Press SHUFFLE, and Shuffle Play starts from the current track.

Creating Your Own Program (Program Play)

You can arrange the order of the tracks on the discs and create your own program. The program can contain up to 32 tracks.

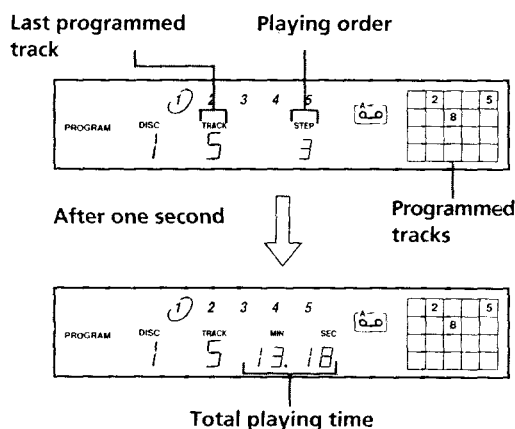


- 1 Press PROGRAM.
"PROGRAM" appears in the display.
If a program is already stored, the last step of the program appears in the display. When you want to erase the whole program, hold down CLEAR until "ALL CLR" appears in the display (see page 12).
- 2 Press DISC 1 – 5 to select the disc.



"AL" in the display stands for "all" tracks.
When you want to program the whole disc as one step, skip Step 3 and go to Step 4.

- 3 Press the number buttons of the tracks you want to program in the order you want.
To program the track numbered over 10, use the >10 button (see page 10).



If you've made a mistake

Press CLEAR, then press the correct number button.

(Continued)

- 4 To program other discs or tracks, do the following:

To program	Repeat Step(s)
Other discs	2
Other tracks on the same disc	3
Other tracks on other discs	2 and 3

- 5 Press \triangleright to start Program Play.

To cancel Program Play

Press CONTINUE.

You can create your program while checking the disc labels

While the disc tray is open, follow Steps 1 to 5 with pressing DISC SKIP to check the disc labels. If you close the disc tray before Step 5, the total playing time appears in the display after a while.

Note that, if the programmed track number isn't found on the disc, that step is automatically erased.

The program remains even after the Program Play ends

When you press \triangleright , you can play the same program again.

The program remains until you erase it or turn off the player

If you replace discs, the programmed disc and track numbers remain. So, the player plays only the existing disc and track numbers. However, the disc and track numbers that aren't found in the player or on the disc are deleted from the program, and the rest of the program is played in the programmed order.

Note

The total playing time doesn't appear when:

- You have programmed a track whose number exceeds 20.
- The total playing time of the program exceeds 200 minutes.

Checking the track order

You can check your program before or after you start playing.

Press CHECK.

Each time you press this button, the display shows the track (the disc and track numbers) or the disc (the disc number and "AL" indication) of each step in the programmed order. After the last step in the program, the display shows "End" and returns to the original display. If you check the order after you start playing, the display shows only the remaining steps.

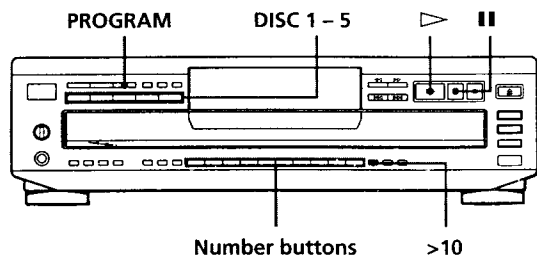
Changing the track order

You can change your program before you start playing.

To	Press
Erase a track	CHECK until the track you don't want appears in the display, then press CLEAR
Erase the last track in the program	CLEAR. Each time you press the button, the last track will be cleared.
Add tracks to the end of the program	DISC 1 – 5 to select the disc, then number buttons of the tracks to be added
Change the whole program completely	CLEAR until "ALL CLR" appears in the display. Create a new program following the programming procedure.

Recording Your Own Program

You can record the program you've created on a tape, etc. The program can contain up to 32 tracks. By inserting a pause during programming, you can divide the program into two for recording on both sides of a tape.



- 1 Create your program (for side A when recording on a tape) while checking the total playing time indicated in the display. Follow Steps 1 to 4 in "Creating Your Own Program" on page 11. The indication appears in the display.

- 2 When you record on both sides of the tape, press to insert a pause. The "P" and indications appear in the display and the playing time is reset to "0.00." When you record on one side of the tape, skip this step and go to Step 4.

A pause is counted as one track

You can program up to 31 tracks when you insert a pause.

- 3 Repeat Steps 2 to 4 in "Creating Your Own Program" on page 11 to create the program for side B.
- 4 Start recording on the deck and then press on the player. When you record on both sides of the tape, the player pauses at the end of the program for side A.
- 5 When you record on side B, reverse the tape and press or on the player to resume playing.

You can check the total playing time while programming (Program Edit)

To select a track, press or and check the total playing time. Then press PROGRAM to confirm your selection.

To check and change your program

See page 12.

The indication appears while checking the program for side A and while checking the program for side B.

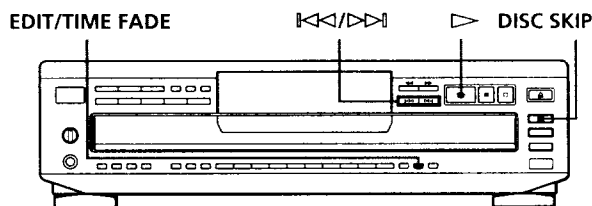
Recording a CD by Specifying Tape Length (Time Edit) (except for CDP-C450Z, CDP-C350Z and CDP-C250Z)

You can have the player create a program that will fit the length of the tape.

The player automatically creates a program, keeping the original order of the disc.

The program can contain up to 32 tracks (a pause inserted between tracks is counted as one track).

Note that tracks numbered over 20 cannot be programmed automatically.



- 1 Press DISC SKIP to select the disc.
- 2 Press EDIT/TIME FADE repeatedly before you start playing until "EDIT" appears and "A" in the indication flashes in the display.
- 3 Press or to specify the tape length. Each time you press these buttons, the display changes as shown below, with the tape length of one side following each indication.

C-46 (23.00) C-54 (27.00) C-60 (30.00) C-74 (37.00) C-90 (45.00)
- 4 Press EDIT/TIME FADE to have the player create the program. The display shows the tracks to be recorded. "B" in the indication flashes in the display.
- 5 When you record on both sides of the tape, press EDIT/TIME FADE again. The player inserts a pause, then creates the program for side B. The display shows the programmed tracks. When you record on one side of the tape, skip this step.


- 6 Start recording on the deck and then press on the player. When you record on both sides of the tape, the player pauses at the end of the program for side A.


(Continued)


- 7 When you record on side B, reverse the tape and press \triangleright or II on the player to resume playing.

To cancel Time Edit

Press CONTINUE.

-  **You can program the tracks you want in advance**
Select the tracks before doing the above procedure. The player creates a program from the remaining tracks.


-  **You can freely specify the tape length**
Set the tape length using number buttons. To enter "0," use button 10.
Example: When the tape length of one side is 30 minutes and 15 seconds
Press 3, 10, 1 and 5.

-  **You can check and change the program**
See page 12.

When track numbers and "LINK" flash in Step 3 or 4 (CDP-CE505 only)

This means that there is a portion remaining on the tape after the player has programmed all the tracks so that you can add more tracks to the portion (Link Edit). You can also select another disc and add the tracks on the disc you select if the tracks on the current disc are shorter than the remaining time.

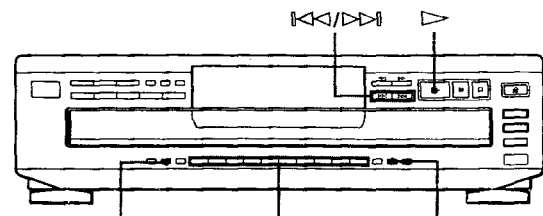
Press EDIT/TIME FADE to have the player add the tracks, or press number buttons of the tracks flashing in the display. When you want to add tracks on another disc, press DISC SKIP to select the disc, and then press number buttons of the track. After adding the tracks, press \triangleright to start playing. If you don't need to add tracks, just press \triangleright to start playing.

-  **When "B" in the A-B indication flashes**
This means that more than 1 minute remains on the tape but no track on the current disc fits the remaining portion. If you add tracks on other discs, select the disc you want and follow the procedure above.

Fading In or Out

You can manually fade in or out to prevent tracks from starting or ending abruptly.

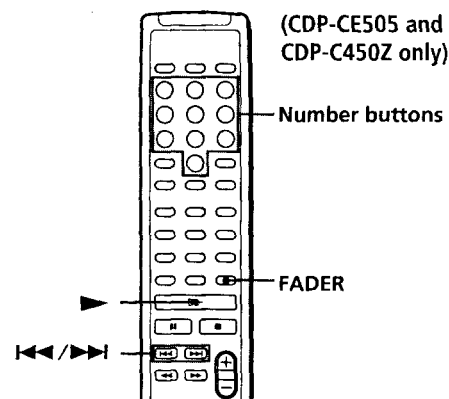
Note that you cannot use this effect when you use the DIGITAL OUT (OPTICAL) connector.



FADER** Number buttons EDIT/TIME FADE*

*except for CDP-C450Z, CDP-C350Z and CDP-C250Z

**except for CDP-CE505 and CDP-C450Z



To	Press FADER
Start play fading in	During pause. FADE lights up in the display and the II indication flashes. The play fades in.
End play fading out	When you want to start fading out. FADE lights up in the display and the II indication flashes. The play fades out and the player pauses.

Note

Fading lasts for about 5 seconds. However, when you press FADER during Music Scan (see page 10), the play fades out for about 2 seconds.

Changing the fading time (CDP-CE505 and CDP-C450Z only)





You can change the fading time from 2 to 10 seconds before fading in or out. If you don't change it, fading lasts for 5 seconds.

- 1 Press FADER on the remote before you start playing.





- Press the number button corresponding to the fading time you want (2–10).

Fading out at the specified time (Time Fade) (except for CDP-C450Z, CDP-C350Z and CDP-C250Z)

You can have the player fade out automatically by specifying the playing time. Once you set the Time Fade, it works twice, that is, the play fades out at the end of both sides of a tape.

- Press EDIT/TIME FADE repeatedly before you start playing until  and "A" in the  indication appear in the display.
- Press  or  to specify the playing time. Each time you press these buttons, the display changes as shown below, with the playing time of one side following each indication.

C-46	C-54	C-60	C-74	C-90
(23.00)	(27.00)	(30.00)	(37.00)	(45.00)

- Press  to start playing.
At the specified time the play fades out and the player pauses. "B" in the  indication appears in the display.
- To record on side B, reverse the tape and press  or  on the player to resume playing.
Again, the play fades out at the specified time.

To cancel Time Fade

Press EDIT/TIME FADE.

You can freely specify the playing time

See "You can freely specify the tape length" on page 14.



You can change discs during Time Fade

If the play ends before the specified fade-out time, (for example, when you record CD-singles on a tape) change the disc. The specified fade-out time is counted only during playing.

You can fade in to resume playing in Step 4

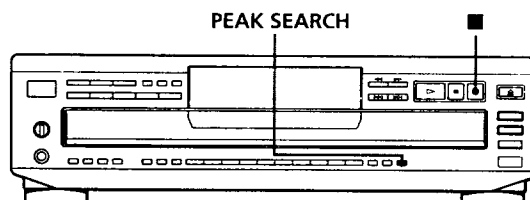
After you reverse the tape, press FADER.


Note

If you press  or  during Time Fade, Time Fade will be cancelled.

Adjusting the Recording Level (Peak Search) (except for CDP-C450Z, CDP-C350Z and CDP-C250Z)

The player locates the highest level among the tracks to be recorded to let you adjust the recording level before you start recording.



- Before you start playing, press PEAK SEARCH. "PEAK" flashes in the display and the player repeats the portion of the highest level.
- Adjust the recording level on the deck.
- Press  on the player to stop Peak Search. "PEAK" disappears from the display.

Notes

- The portion with the highest level may differ every time you try the adjustment on the same disc. The difference is, however, so slight that you won't find any problem in adjusting the recording level precisely.
- Peak Search does not operate while you open the disc tray by pressing EX-CHANGE.

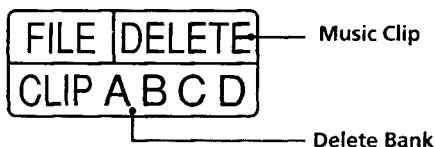
What You Can Do With the Custom Files

The player can store 2 types of information called "Custom Files" for each disc. Once you have stored Custom Files for a disc, the player automatically recalls what you have stored whenever you select the disc. Note that Custom Files will be erased if you don't use the player for about 1 month.

You can store this information:

When you use	You can
Music Clip (page 16)	Group the tracks on each disc into up to 4 groups
Delete Bank (page 17)	Delete unwanted tracks and store only the tracks you want

The Custom File indication lights up when you store the corresponding information.



Where are Custom Files stored?

Custom Files are stored not on the disc but in the player's memory. This means you cannot use Custom Files when you play the disc on other players.

How many discs can you file?

You can file up to 172 discs in the Custom File.

Erasing Custom Files

If the memory for Custom Files becomes full, the player displays "FULL" when you press FILE to store the information and you cannot store any more disc information. If necessary, erase any unwanted Custom Files as follows:

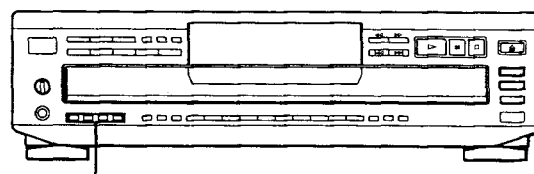
- **To erase all Custom Files of one disc**
If the disc you want to clear is stored in the Music Clip, remove all the tracks of the disc from the clip following the procedure in "Remove tracks from a clip" on page 17. If the disc you want to clear is stored in the Delete Bank, erase all the Delete Bank following the procedure in "Erasing the Delete Bank" on page 18.
- **To erase all Custom Files of all discs**
While holding down ERASE and 1 on the player, press POWER to turn off and on the player. "ALL ErS" appears in the display and all the Custom Files will be erased.

Grouping Tracks (Music Clip)

You can group the track on each disc into up to 4 groups called "clips." Once you store a track into a clip, you can use the Music Clip every time you play the disc. You can also play only the tracks stored in a selected clip.

You can store one track into four clips, or all tracks on a disc into one clip.

Note that tracks numbered over 32 cannot be stored into a clip.



MUSIC CLIP buttons

Storing tracks into clips

- 1 Play the track you want to store into a clip.
- 2 Press one of the MUSIC CLIP buttons (A, B, C or D).
"C-FILE" appears and the selected MUSIC CLIP button flashes for a while.
- 3 Repeat Steps 1 and 2 to store other tracks into clips.

Playing tracks in a clip (Clip Play)

Press one of the MUSIC CLIP buttons before you start playing.

"C-PLAY" appears in the display and the selected MUSIC CLIP button lights. The tracks stored in the clip appear in the music calendar. The player starts playing tracks in the selected clip.

To play tracks in another clip

Press ■ to stop playing, then press one of the MUSIC CLIP buttons you want to play.

Notes

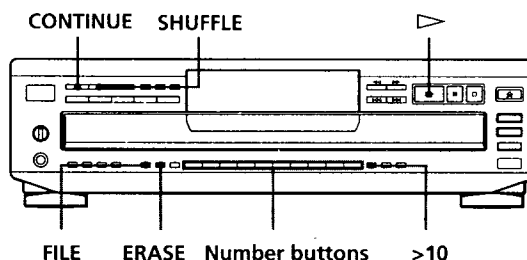
- Clip Play is available only in Continuous and Shuffle Play mode. If you press MUSIC CLIP in Program Play mode, the player automatically enters Continuous Play mode and starts Clip Play.
- In ALL DISCS Play mode, the player plays the tracks in the selected clip on all discs consecutively.
- If you press MUSIC CLIP during Clip Play, the button does not operate.

Removing tracks from a clip

- 1 Before you start playing, press one of the MUSIC CLIP buttons to start Clip Play.
- 2 Press ◀◀ or ▶▶ to select the track you want to remove from the clip.
- 3 Press ERASE to remove the track.
"ErASE" appears in the display for a while. The player starts playing the next track in the clip.
- 4 Repeat Steps 2 and 3 to remove other tracks.
When you've removed all tracks from the clip, the MUSIC CLIP button goes off after the player plays the last track in the clip.

Storing Specific Tracks (Delete Bank)

You can delete unwanted tracks and store only the tracks you want. When you select the disc with the Delete Bank, you can play only the tracks you want. The player memorizes the Delete Bank for about 1 month, even if you turn off the player.



- 1 Insert or select the disc.
- 2 Press SHUFFLE to select "ALL DISCS" or "1 DISC".
- 3 Press the number buttons to delete the tracks you want to delete.
The track number and "OFF" appears in the display and the track numbers you've deleted disappear from the music calendar.

If you've made a mistake

Press the number button of the track. The track number and "On" appears in the display and the track will be restored.

- 4 Press FILE to store the remaining tracks.
"FILE" and "DELETE" in the Custom File indication light up in the display.



You can delete unwanted tracks during playback

Press CLEAR while playing the track. The player starts playing the next track.

If you press FILE, the player stores the remaining tracks.

Playing using the Delete Bank

- 1 Insert or select the disc.
"FILE" and "DELETE" in the Custom File indication light up in the display.
- 2 Press CONTINUE or SHUFFLE to select "ALL DISCS" or "1 DISC".
- 3 Press \triangleright or one of the DISC1-5 buttons you want to start playing.

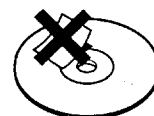
Erasing the Delete Bank

- 1 Insert or select the disc.
"FILE" and "DELETE" in the Custom File indication light up in the display.
- 2 Press FILE.
"FILE" appears in the display.
- 3 Press ERASE while "FILE" appears in the display.
The Delete Bank is erased. "ErASE" appears in the display and "FILE" and "DELETE" in the Custom File indication disappear.

Notes on CDs

On handling CDs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



Not this way

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.
- Do not use any commercially available stabilizer. If you do, the disc and the player may be damaged.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.


There's no sound.

- ➔ Check that the player is connected securely.
- ➔ Make sure you operate the amplifier correctly.
- ➔ Adjust the playback level using the PHONE LEVEL control on the player (CDP-CE505 and CDP-C450Z only) or LINE OUT LEVEL +/- on the remote (except for CDP-CE305, CDP-C250Z and CDP-C661).

The CD does not play.

- ➔ There's no CD inside the player ("no DISC" appears). Insert a CD.
- ➔ Place the CD with the label side up on the disc tray correctly.
- ➔ Clean the CD (see page 18).
- ➔ Moisture has condensed inside the player.
Remove the disc and leave the player turned on for about an hour (see page 2).

The remote does not function. (except for CDP-CE305, CDP-C250Z and CDP-C661)

- ➔ Remove the obstacles in the path of the remote and the player.
- ➔ Point the remote at the remote sensor.  on the player.
- ➔ Replace all the batteries in the remote with new ones if they are weak.

The player functions incorrectly.

- ➔ The microcomputer chips may be operating incorrectly. Turn the power off, then turn it back on to reset the player.

Specifications

Compact disc player

Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) Emission duration: continuous
Laser output	Max 44.6 μW^* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up block with 7 mm aperture.
Frequency response	2 Hz to 20 kHz $\pm 0.5 \text{ dB}$
Signal-to-noise ratio	CDP-CE505/C450Z: More than 107 dB CDP-CE405/CE305/C350Z/C250Z/C661: More than 102 dB
Dynamic range	More than 98 dB
Harmonic distortion	CDP-CE505/C450Z: Less than 0.0035% CDP-CE405/CE305/C350Z/C250Z/C661: Less than 0.0045%
Channel separation	More than 100 dB

Output

	Jack type	Maximum output level	Load impedance
LINE OUT	Phono jacks	2 V (at 50 kilohms)	Over 10 kilohms
DIGITAL OUT (OPTICAL) (CDP-CE505/C450Z only)	Optical output connector	-18dBm	Wave length: 660nm
PHONES (CDP-CE505/C450Z only)	Stereo phone jack	10 mW	32 ohms

General

Power requirements

Where purchased	Power requirements
USA	120 V AC, 60 Hz
Australia	240 V AC, 50/60 Hz

Power consumption	14 W
Dimensions (approx.) (w/h/d)	430 × 120 × 385 mm (17 × 4 3/4 × 15 1/4 in.) incl. projecting parts
Mass (approx.)	5.6 kg (12 lbs 6 oz)

Supplied accessories

Audio cord (2 phono plugs – 2 phono plugs) (1)
Remote commander (remote) (except for CDP-CE305, CDP-C250Z and CDP-C661) (1)
Sony SUM-3 (NS) batteries (except for CDP-CE305, CDP-C250Z and CDP-C661) (2)

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Buttons

- CHECK 12
- CLEAR 12
- CONTINUE 6
- DISC 1-5 6
- DISC CHECK 9
- DISC SKIP 7
- EDIT/TIME FADE 13
- ERASE 12
- EX-CHANGE 8
- FADER 14
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- LINE OUT LEVEL +/- 4
- MUSIC CLIP 1-5 16
- MUSIC SCAN 10
- Number 10
- ≡ OPEN/CLOSE 6
- PEAK SEARCH 15
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