

# Contents

# **Compact Disc Player**

*C-733* 

# **Instruction Manual**

Thank you for purchasing an Onkyo Compact Disc Player. Please read this manual thoroughly before making connections and plugging in the unit. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new Compact Disc Player. Please retain this manual for future reference. Introduction ..... 2

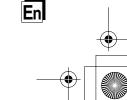
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# WARNING:

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

#### **CAUTION:**

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

# Important Safety Instructions

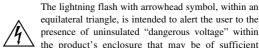
- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

2



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.





equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

15. Damage Requiring Service

Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power-supply cord or plug is damaged,
- B. If liquid has been spilled, or objects have fallen into the apparatus,
- C. If the apparatus has been exposed to rain or water,
- D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
- E. If the apparatus has been dropped or damaged in any way, and
- F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
- 16. Object and Liquid Entry

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

Don't put candles or other burning objects on top of this unit.

17. Batteries

Always consider the environmental issues and follow local regulations when disposing of batteries.

18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

# Precautions

- Recording Copyright—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
- 2. AC Fuse—The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer.
- **3.** Care—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

### 4. Power

#### WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SEC-TION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

Setting the [STANDBY/ON] switch to STANDBY does not fully shutdown the unit. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

5. Never Touch this Unit with Wet Hands—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

### 6. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.
- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.
- When you've finished using this unit, remove all discs and turn off the power.

#### 7. Installing this Unit

- Install this unit in a well-ventilated location.
- Ensure that there's adequate ventilation all around this unit, especially if it's installed in an audio rack. If the ventilation is inadequate, the unit may overheat, leading to malfunction.
- Do not expose this unit to direct sunlight or heat sources, because its internal temperature may rise, shortening the life of the optical pickup.

- Avoid damp and dusty places, and places subject to vibrations from loudspeakers. Never put the unit on top of, or directly above a loudspeaker.
- Install this unit horizontally. Never use it on its side or on a sloping surface, because it may cause a malfunction.
- If you install this unit near a TV, radio, or VCR, the picture and sound quality may be affected. If this occurs, move this unit away from the TV, radio, or VCR.

#### 8. Moisture Condensation

### Moisture condensation may damage this unit. Read the following carefully:

Moisture may condense on the lens of the optical pickup, one of the most important parts inside this unit.

- Moisture condensation can occur in the following situations:
  - The unit is moved from a cold place to a warm place.
  - A heater is turned on, or cold air from an air conditioner is hitting the unit.
  - In the summer, when this unit is moved from an air conditioned room to a hot and humid place.The unit is used in a humid place.
- Do not use this unit when there's the possibility of moisture condensation occurring. Doing so may damage your discs and certain parts inside this unit.

If condensation does occur, remove all discs and leave this unit turned on for two to three hours. By this time, the unit will have warmed up and any condensation will have evaporated.

# **Precautions**—Continued

# For British models

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

# **IMPORTANT**

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

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

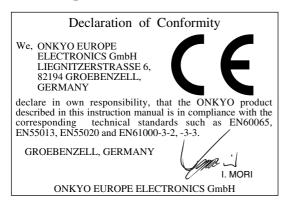
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

### **IMPORTANT**

The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut if off and fit a suitable plug. Fit a suitable fuse in the plug.

# **For European Models**



This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT". So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit.

To prevent being exposed to the laser beam, do not try to open the enclosure.

# **DANGER:**

VISIBLE AND/OR INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

#### **CAUTION:**

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFOR-MANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARD-OUS RADIATION EXPOSURE.

The label on the right is applied on the rear panel.



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

# **Features**

- Onkyo's unique Vector Linear Shaping Circuitry (VLSC) greatly improves the sound quality by deriving a pure analog signal from the digital source.
- Onkyo's unique Direct Digital Path technology uses dedicated shielded cables to feed the digital audio output, protecting the signal against the possibility of noise and interference, sharpening the sound image, and improving the sound quality.
- Incorporates a Digital Servo that detects the optimum servo amount for each disc
- 2 optical digital outputs
- □ Gold-plated analog output
- □ Super-precision internal clock
- Ultra-smooth, efficient disc loading mechanism
- □ High-rigidity, nonresonant chassis

# **Supplied Accessories**

Make sure you have the following accessories:

# Audio cable (1 m)



### RI cable (80 cm)



• To use **RI**, the C-733 must be connected with an **RI** cable and an audio cable.

In catalogs and on packaging, the letter added to the end of the product name indicates the color of the C-733. Specifications and operation are the same regardless of color.

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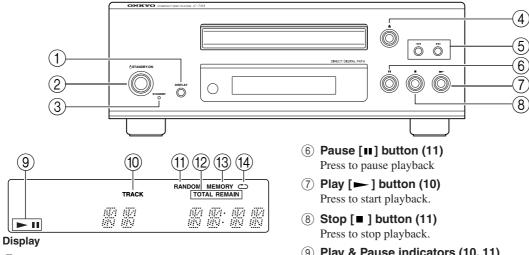
### Others

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# Front & Rear Panels

For detailed information, refer to the pages in parentheses.

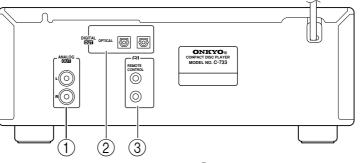
# **Front Panel & Display**



- (1) **DISPLAY button (11)** Press to change the displayed information.
- ② STANDBY/ON button (10) Press to set the C-733 to On or Standby.
- ③ **STANDBY indicator (10)** Lights up when the C-733 is in Standby mode.
- ④ Open/Close [▲] button (10)
  Press to open and close the disc tray.
- (5) [i◄</▶→i] button (11)</li>
  Press to select the previous or next track.
  Press and hold to fast reverse or fast forward during playback.

- (9) Play & Pause indicators (10, 11) Illuminate in play or pause mode.
- TRACK indicator (11)Illuminates when a disc is loaded.
- (1) **RANDOM indicator (12)** Illuminates during random playback.
- 12 TOTAL & REMAIN indicators (11) Illuminate when the remaining time is shown.
- MEMORY indicator (12) Illuminates during memory playback.
- (4) **Repeat indicator (13)** Illuminates during repeat playback.

# **Rear Panel**



# (1) ANALOG OUT (9)

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This analog audio output can be connected to an amplifier's analog input by using the supplied audio cable.

# 2 DIGITAL OUT OPTICAL (9)

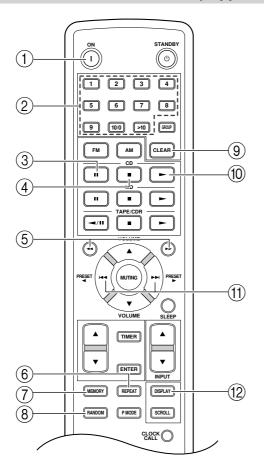
These two identical optical digital audio outputs can be connected to a digital audio input on an amplifier or recorder.

# ③ RI REMOTE CONTROL jacks (9)

These two identical **RI** (Remote Interactive) jacks can be connected to the **RI** jacks on your other Onkyo components for interactive control. To use **RI**, the C-733 must be connected with an **RI** cable and an audio cable.

# **Remote Controller**

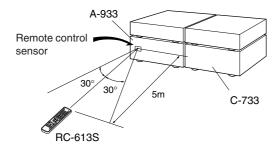
# RC-613S Remote Controller (supplied with the A-933 Integrated Amplifier)



# Using the Remote Controller

The C-733 doesn't have its own remote controller, but it can be controlled by using the remote controller (RC-613S) that's supplied with the Onkyo A-933 Integrated Amplifier. The C-733 and A-933 must be connected with an **R** cable and an analog audio cable for this to work.

When controlling the C-733 with the A-933's remote controller, point the controller at the A-933's remote sensor, as shown.



- ON button (10) Press once to turn on the A-933. Press again to turn on the C-733.
- ② Number buttons (11) Use these buttons to enter track numbers.
- ③ Pause [III] button (11) Press to pause playback.
- ④ **Stop** [■] button (11) Press to stop playback.
- (5) [◄◄/►►] buttons (11)
  Press and hold to fast reverse or fast forward during playback.
- (6) REPEAT button (13) Press to set repeat playback.
- ⑦ MEMORY button (12) Press to set memory program.
- (8) **RANDOM button (12)** Press to set random playback.
- CLEAR button (12)Press to remove the last track in the program.
- (1) Play [ ] button (10) Press to start playback.
- (1) [H◄/►►] buttons (11) Press to select the previous or next track.
- DISPLAY button (11) Press to change the displayed information.

# Notes:

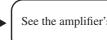
- The remote controller may not work reliably if the A-933 is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights. Keep this in mind when installing.
- If another remote controller of the same type is used in the same room, or the A-933 is installed close to equipment that uses infrared rays, the remote controller may not work reliably.
- Don't put anything, such as a book, on the remote controller, because the buttons may be pressed inadvertently, thereby draining the batteries.
- The remote controller may not work reliably if the A-933 is installed in a rack behind colored glass doors. Keep this in mind when installing.
- The remote controller will not work if there's an obstacle between it and the A-933's remote control sensor.

# **Connecting the C-733**

# **About the System Functions**

If you connect another component from the Onkyo Separate Collection to the C-733 with the supplied  $\mathbf{R}\mathbf{I}$  and audio cables, you can use the following system functions.  $\mathbf{R}\mathbf{I}$  cables are special cables solely for use with Onkyo products.





See the amplifier's instruction manual.

See page 7 for more information.

See the tuner's instruction manual for

more information.

# Auto Power On

When you turn on the power or start playback on the C-733, the amplifier will turn on automatically. (The amplifier's POWER switch must be set to ON for this to work.)

### **Direct Change**

When playback is started on the C-733, the amplifier will automatically select the CD input.

### **Remote Control Operation**

You can control the C-733 by using the A-933's remote controller.



With an Onkyo tuner, you can program its timer to automatically start playback or recording at a specific time.

# One-touch CD Dubbing

If your system comprises a CDR, MD recorder, or cassette deck, you can dub an entire CD simply with one press of a button.

# **Dubbing Individual Tracks**

If your system comprises an MD recorder or CDR, you can dub your favorite CD tracks individually with one press of a button.

# Synchro Recording

When recording on a CDR, MD recorder, or casssette deck, you can start the recording process simply by starting playback on the C-733.

### **DLA Link**

8

DLA Link (Digital Rec Level Adjustment) scans the CD to be dubbed and automatically sets the recording level on the CDR or MD recorder. See your MD recorder's, CDR's, or cassette deck's instruction manual for more information.

• Simply connecting an **R** cable will not enable the system functions. You must make an analog audio connection as well. See page 9 for more information.

• See the instruction manual supplied with each component for more information about the **RI** system functions.

# **Before Making any Connections**

- Always refer to the instructions that came with the component that you are connecting.
- Do not plug in the power cord until all connections have been properly made.
- Do not bind audio cables with power cords and speaker cables. Doing so may adversely affect the sound quality.

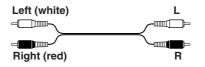
# **Optical Digital Jacks**

The optical digital jacks are fitted with protective caps. Before connecting a cable, remove the cap and keep it safely. When you disconnect the cable, put the cap back in.



# RCA Audio Connection Color Coding

• Red connectors are used for the right channel, and white connectors are used for the left channel.



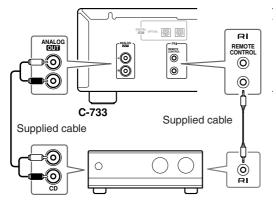
• Push each plug in all the way to make a good connection (loose connections can cause noise or malfunctions).



# Connecting an Amplifier with an Analog Input

Use the supplied analog audio cable to connect the C-733's ANALOG OUT L/R jacks to the analog input jacks on the amplifier, as shown.

To use the  $\mathbf{R}\mathbf{I}$  system functions, use the supplied  $\mathbf{R}\mathbf{I}$  cable to make an  $\mathbf{R}\mathbf{I}$  connection.

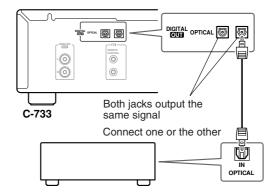


### Note

- The C-733 has two **R** jacks. They're both the same, so you can use either one.
- To use **RI**, you must make an analog audio connection between the C-733 and the other component.
- Use only dedicated **RI** cables for **RI** connections.
- If you use the C-733 with other components from the Onkyo Separate Collection, refer to the instruction manuals supplied with the A-933 as well.

# Connecting an Amplifier or Recorder with an Optical Digital Input

If your amplifier or recorder has an optical digital audio input, you can enjoy digital playback or recording. Use an optical digital audio cable to connect one of the C-733's OPTICAL DIGITAL OUT jacks to an optical digital input jack on the amplifier or recorder, as shown.



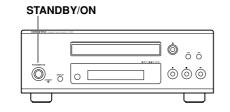
# **Turning On the C-733**

# **Turning On the C-733**

1

2

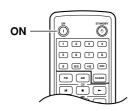
10



	Plug the power cord into a suit- able wall outlet.
ÚSTANDBY ON	Press the C-733's [STANDBY/ON] button. The C-733 turns on, and the STANDBY indicator goes off.
	To turn off the C-733, press the [STANDBY/ON] button. The C-733

The C-733 will enter Standby mode. The C-733 is not completely shutdown in Standby mode.

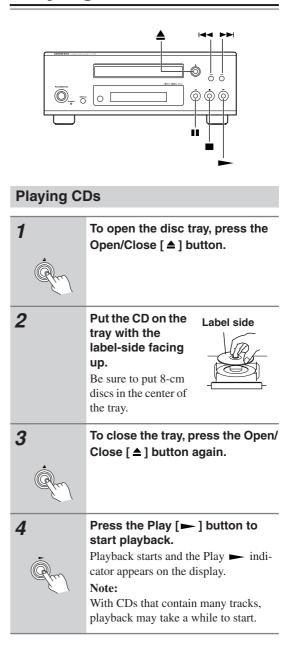
# To turn on the Onkyo Separate Collections



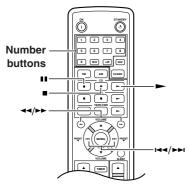
**RC-613S** (remote controller supplied with the A-933)

If you're using the C-733 together with the A-933 amplifier from the Onkyo Separate Collection, press the remote controller's [ON] button once to turn on the A-933, and press it again to turn on the C-733.

# **Playing CDs**



# Playing CDs—Continued



RC-613S (remote controller supplied with the A-933)

### To Stop Playback

Press the Stop [■] button.

# To Pause Playback

Press the Pause [III] button. The Pause III indicator appears.

To resume playback, press the Play [-] or Pause [-] button again.

# To Fast Forward or Fast Reverse

#### Using the remote controller:

During playback or while playback is paused, press and hold the  $[\rightarrow ]$  button to fast forward or the  $[\neg ]$  button to fast reverse.

### Using the C-733:

During playback or while playback is paused, press and hold the  $[\vdash \vdash]$  button to fast forward or the  $[\vdash \vdash]$  button to fast reverse.

### To Select Tracks

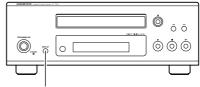
Press the [>>-] button to select the next track or the [+<-] button to select the previous track.

- If you press the [◄◄] button during playback or while playback is paused, the beginning of the current track is selected.
- If you select a track while playback is stopped, press the Play [>>] button to start playback.

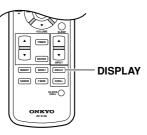
#### To Select Tracks by Number

Use the number buttons to select specific tracks. Use the [>10] button to enter track numbers above 10. For example, to enter track number 10, press [10/0]. To enter track number 12, press [>10], [1], and [2].

# **Displaying the Remaining Time**



DISPLAY

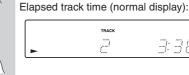


1 Em

Remote

controlle

# During playback, press the [DIS-PLAY] button repeatedly to display the remaining time.



Remaining track time:



#### Remaining disc time:

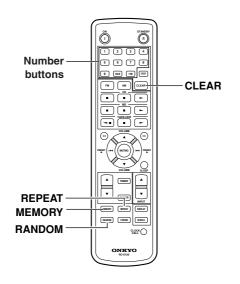


If you're using the Memory function to play a custom selection of tracks, the remaining memory playback time is displayed instead of the remaining disc time.

#### Note:

If the total playing time of your custom selection exceeds 99 minutes and 59 seconds, "--:--" will be displayed.

# Playing CDs—Continued



# Memory Playback

With the Memory function, you can make a custom program of your favorite tracks.

1 MELIORY	While playback is stopped, press the [MEMORY] button. The MEMORY indicator appears on the display.
2	To add a track to your program, use the number buttons.
	You can add up to 25 tracks to your
	program.

For example, to add track number 10, press [10/0]. To add track 13, press [>10], [1], [3].

• Tracks can also be added by using the [I◄◄]/[►►I] buttons. Select the track, and then press the [MEM-ORY] button.

While playback is stopped, you can check which tracks are in the program by using the  $[\neg 4]/[\rightarrow \rightarrow]$  buttons.

To start memory playback, press the Play [►] button.

Memory playback stops automatically when all the tracks in the program have been played.

### Notes:

3

- If you try to add more than 25 tracks, the message "FULL" will appear on the display.
- If the total playing time of your program exceeds 99 minutes and 59 seconds, "--:--" will be displayed. (This will not affect program playback.)
- The program will be deleted when the disc tray is opened.

# To Stop Memory Playback

Press the Stop [■] button.

■ To Remove the Last Track from the Program While memory playback is stopped, press the [CLEAR] button. Each time you press it the last track from the program will be removed.

# To Cancel Memory Playback

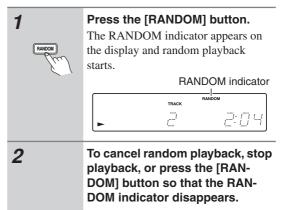
Press the [MEMORY] button so that the MEMORY indicator disappears. The program will be deleted.

### **Tips:**

- During normal playback, you can add the current track to the program with the [MEMORY] button.
- During memory playback, you can add tracks to the
- program by using the number buttons.

# **Random Playback**

With the Random function, you can play tracks in random order.



# Note:

During random playback, pressing the [I



# Playing CDs—Continued

# **Repeat Playback**

With the Repeat function, you can play all tracks repeatedly.

1 REPEAT	During playback, press the remote controller's [REPEAT] button. The Repeat indicator appears on the display and all tracks are played repeatedly.		
	Repeat indicator		
2	To cancel repeat playback, press the [REPEAT] button again. The Repeat indicator disappears.		

# Repeat Memory Playback

If you press the [REPEAT] button during memory playback, the custom program will play repeatedly.

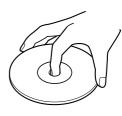
# Repeat Random Playback

If you press the [REPEAT] button during random playback, tracks will be played in random order repeatedly.

# **About CDs**

# Handling CDs

• Carefully lift the disc from its case, making sure to hold it by its edges or center hole.



 You can use a soft, dry cloth to wipe dust and fingerprints off the surface of CDs. Do not use volatile agents, such as thinner or benzene. Don't use vinyl record cleaners or antistatic agents.



#### Notes:

- Don't keep a CD in direct sunlight or in locations subject to high humidity or low temperature.
- Don't leave a CD in the unit for a long period of time.

# Supported Discs

This unit can play the following types of discs.

	Disc mark	Content	Disc size
Audio		12 cm	
CD		Audio	8 cm (CD single)

You cannot play discs other than those listed above.



Avoid using heart-shaped or octagonal discs. Playing irregularly-shaped discs may damage the internal mechanism of the unit.

Do not use discs that carry a residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the disc, or the unit may become inoperative.

### About Playing Copy-controlled CDs

Some copy-controlled CDs may not conform to the official CD standard. These special discs may not play properly on the C-733.

Don't load discs that are not audio discs (e.g., CD-ROMs designed for use with computers), as these may damage your speakers or amplifier.

# Troubleshooting

If you have any trouble using the C-733, look for a solution here. If you can't resolve the issue yourself, contact your Onkyo dealer.

### Power

# Can't turn on the C-733.

- Make sure that the power cord is properly plugged into the wall outlet (page 9).
- Unplug the power cord from the wall outlet, wait five seconds or more, then plug it in again.

# Audio

#### There's no sound.

- The C-733 is not connected properly. Check all connections and correct as necessary.
- The wrong input source is selected on your amplifier. Check your amplifier's input source setting. Refer to your amplifier's manual.
- Check if the A-933's MAIN IN function is on. Refer to the A-933's instruction manual.

### CD

### Can't play a CD.

- The disc is upside down. Load the disc with the label-side facing up (page 10).
- The disc is dirty. Remove the disc and clean it (page 13).
- Condensation has formed inside the C-733. Remove the disc and leave the C-733 turned on for several hours until the condensation has evaporated.
- The disc is nonstandard. See "Supported Discs" on page 13.

### CD playback skips.

- Install the C-733 somewhere free of vibration.
- The disc is dirty. Remove the disc and clean it (page 13).
- The disc is very scratched. Replace the disc.
- Can't enter track numbers for memory playback.
- No such track on the CD. Enter another number (page 12).
- Can't start or stop memory playback.
- Random playback is on. Press the [RANDOM] button to cancel random playback before starting or stopping memory playback.
- It takes a long time to locate certain tracks.
- The disc is dirty. Remove the disc and clean it (page 13).
- The disc is very scratched. Replace the disc.

### **Remote Controller**

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# The A-933's remote controller doesn't work.

- Point the remote controller at the A-933's remote sensor (page 7).
- You've made an RI connection but not an analog audio connection. To use RI, you must make an RI connection and an analog audio connection between the A-933 and C-733 (page 9).
- Check if the A-933's MAIN IN function is on. Refer to the A-933's instruction manual.

The C-733 contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this should happen, unplug the power cord, wait at least five seconds, and then plug it again.

Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

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# Specifications

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Power supply:	AC 230–240 V, 50 Hz
Power consumption:	14.5 W
Standby power consumption:	1.0 W
Dimensions ( $W \times H \times D$ ):	$275 \times 103 \times 304 \text{ mm}$
Weight:	4.5 kg
Operation condition	
Temperature, humidity:	5–35 °C, 5–85% (no condensation)
Frequency response:	5 Hz–20 kHz
SN ratio:	108 dB
Audio dynamic range:	96 dB
THD (total harmonic distortion):	0.003%
Audio outputs:	
Digital optical:	–22.5 dBm
Analog:	2.0 V (rms), 470 Ω

Specifications and features are subject to change without notice.

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