

# aiwa

COMPACT DISC PLAYER  
REPRODUCTOR DE DISCOS COMPACTOS  
LECTEUR DE DISQUES COMPACTS

# XC-30M

OPERATING INSTRUCTIONS  
MANUAL DE INSTRUCCIONES  
MODE D'EMPLOI

En (English)

E (Español)

F (Français)



For assistance and information

***call toll free 1-800-BUY-AIWA***

(United States and Puerto Rico)

## WARNING

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



### Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

## PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

### Installation

- 1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
- 2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
- 3 **Mounting surface** — Place the unit on a flat, even surface.
- 4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from the each side.
  - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
  - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
- 5 **Objects and liquid entry** — Take care that objects or liquids do not get inside the unit through the ventilation openings.
- 6 **Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.



- 7 **Condensation** — Moisture may form on the CD pickup lens when:

- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.

- 8 **Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

### Electric Power

- 1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
- 2 **Polarization** — As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
- 3 **AC power cord**
  - When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
  - Never handle the AC power plug with wet hands, as this could result in fire or shock.
  - Power cords should be routed to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
  - Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.
- 4 **Extension cord** — To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
- 5 **When not in use** — Unplug the AC power cord from the AC power plug if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

### Maintenance

Clean the unit only as recommended in the Operating Instructions.

### Damage Requiring Service

Have the units serviced by a qualified service technician if:

- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

**DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.**

# Welcome to the Aiwa CD Player

Congratulations on your purchase of an Aiwa CD player. To optimize the performance of this unit, please take the time to read through these Operating Instructions and become familiar with the operating procedures.

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### Owner's record

For your convenience, record the model number and serial number (you will find them on the rear of your set) in the space provided below. Please refer to them when you contact your Aiwa dealer in case of difficulty.

Model No.	Serial No. (Lot No.)
XC-30M	

## CONNECTIONS

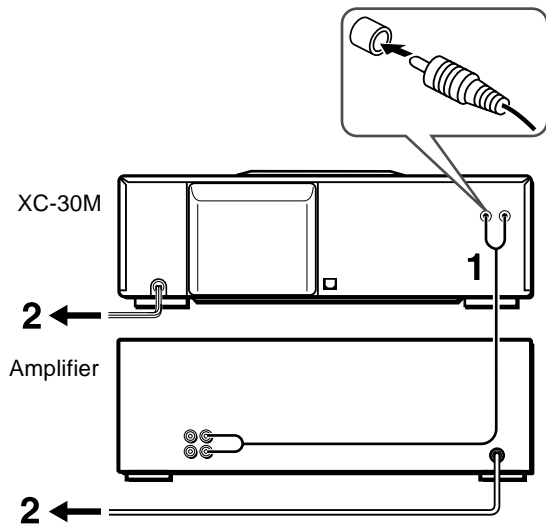
### Before connecting the AC cord

The rated voltage of your unit shown on the rear panel is 120 V AC. Check that the rated voltage shown on the rear panel matches your local voltage.

### IMPORTANT

- Insert plugs firmly into the jacks. A loose connection may cause noise.
- Connect AC cords after connecting all equipment.
- Consult the operating instructions of the connected equipment before making connections.

### CONNECTING TO AN AMPLIFIER

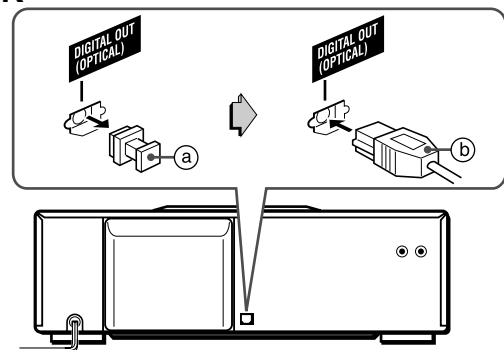


#### 1 Connect the amplifier.

Connect the red plug to the AUDIO OUT R jack and white plug to the L jack with the supplied audio connecting cord with RCA phono plugs. Likewise connect the plugs to the CD or AUX IN jacks of the amplifier.

#### 2 Connect the AC cords to AC outlets.

### CONNECTING TO DIGITAL OUT (OPTICAL) JACK



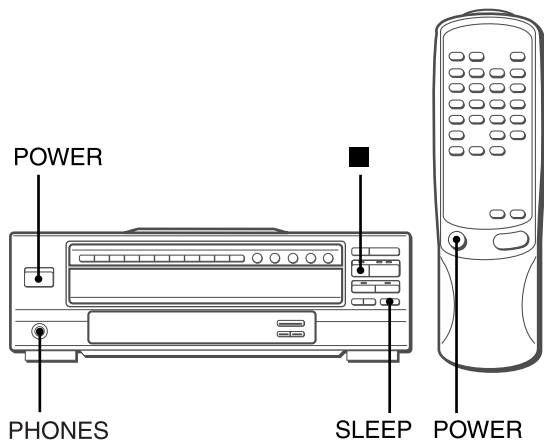
This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment (digital amplifier, DAT deck, MD recorder, etc.).

Remove the dust cap (a) from the CD DIGITAL OUT (OPTICAL) jack. Then, connect an optical cable plug (b) to the CD DIGITAL OUT (OPTICAL) jack.

#### When the CD DIGITAL OUT (OPTICAL) jack is not being used

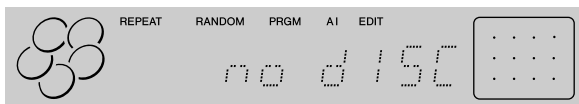
Attach the supplied dust cap.

## BEFORE OPERATION



### To turn on the unit

After connecting the AC cord of the connected amplifier, press the POWER button on the amplifier and on the CD player. The display window lights up.



### After use

Press the POWER button to turn off the power.  $\phi$  is displayed dimly on the display window.

### When the radio reception of connected stereo system contains noise

Turn off the power of this CD player.

### The flash window

The flash window lights up during power on and flashes when the disc compartment is opened or closed, and when the trays are rotated.

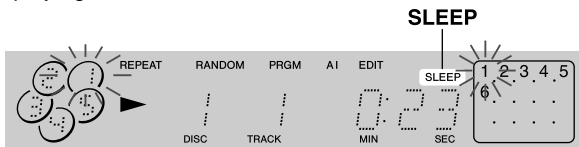
To turn the flash window off, press the POWER button on the unit while keeping the ■ STOP/CLEAR button pressed.

To turn the flash window back on, repeat the procedure.

## Auto power off (SLEEP)

Press the SLEEP button on the unit during CD playing. The SLEEP indicator is displayed, and the power automatically turns off when the play finishes.

The SLEEP button can function only when it is pressed during CD playing.



### To cancel the auto power off

Press the SLEEP button while CD playing, so that SLEEP indicator on the display disappears.

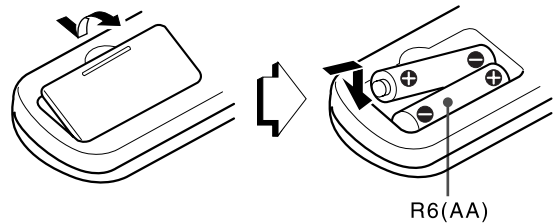
### NOTE

- If the SLEEP button is pressed while the repeat play is in operation, the repeat play is canceled.
- Do not subject the unit to shocks while the disc compartment is opening or closing. Doing so can cause errors or damage the discs.

## THE REMOTE CONTROL

### Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



### When to replace the batteries

The maximum operational distance between the remote control and the sensor in the display window should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

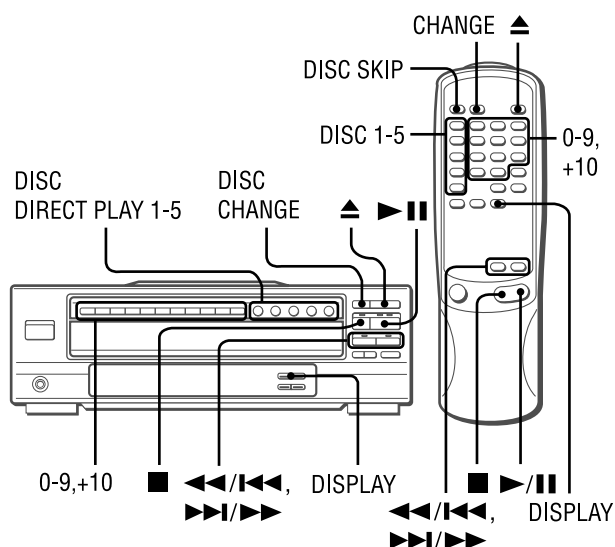
### NOTE

- If the remote control is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the remote sensor inside the display window is exposed to intense light, such as direct sunlight
  - Other remote controls are used nearby (those of a television, etc.)

### Using the headphones

Connect headphones to the PHONES jack with a stereo standard plug ( $\phi 6.3$  mm,  $1/4$  inch).

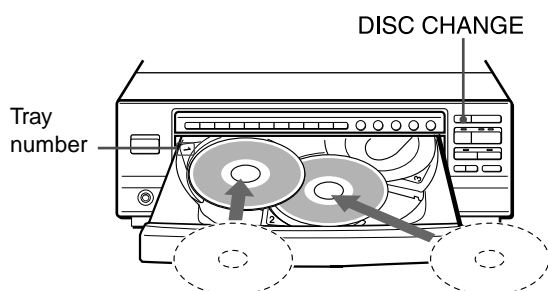
## BASIC OPERATIONS



### LOADING DISCS

Press the **▲ OPEN/CLOSE** button to open the disc compartment. Load disc(s) with the label side up.

To load one or two discs, place the disc(s) on the tray(s) in the direction of the arrows as illustrated.

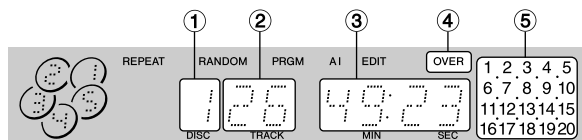


To load three to five discs, press the DISC CHANGE button to rotate the trays after placing two discs. Place the next disc on the empty tray. Each time the DISC CHANGE button is pressed, the trays rotate and one disc can be placed.

To use with the remote control, press the CHANGE button instead.

After placing the discs, press the **▲ OPEN/CLOSE** button to close the disc compartment.

The display shows the information of the disc to be played.



- ① Disc number of the disc in the playback tray
- ② Total number of tracks on the selected disc
- ③ Total playing time of the selected disc
- ④ OVER indicator  
This is displayed when the disc contains 21 tracks or more. While a track after 20th is being played, the OVER indicator lights up.
- ⑤ Music calendar  
Note that only the first 20 tracks are displayed, even if the disc contains 21 tracks or more.

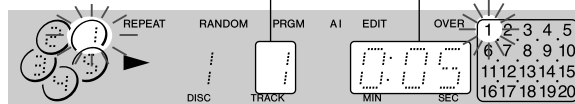
### PLAYING DISCS

Load disc(s).

To play all discs in the disc compartment, press the **▶||** button or press one of the DISC DIRECT PLAY buttons twice.

All discs are played once.

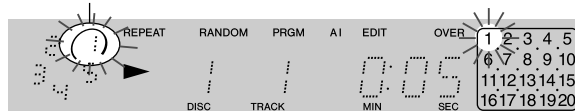
Number of track being played      Elapsed playing time of track



To play one disc only, press one of the DISC DIRECT PLAY buttons.

The disc with the selected tray number is played once.

Only the selected disc tray number is surrounded



To play with the remote control

Press one of the DISC 1-5 buttons to select a disc.

To stop play, press the **■** button.

To pause play, press the **▶||** button. To resume play, press again.

To search for a particular point during playback, keep the **◀◀** or **▶▶** button pressed and release the button at the desired point.

To skip to the beginning of a track during playback, press **◀◀** or **▶▶** button repeatedly.

To remove discs, press the **▲ OPEN/CLOSE** button.

You can remove the two discs that face you. When the disc to be removed does not face you, press the DISC CHANGE(CHANGE) button repeatedly.

To check the remaining time

Press the DISPLAY button during playback. Each time it is pressed, the elapsed time of the playing track, the elapsed time of playing from the beginning of the disc, the amount of time remaining until the current track finishes playing, and the amount of time remaining until all tracks finish playing are displayed in turn.

To skip discs

Press the DISC SKIP button on the remote control to skip a disc and press the **▶/||** button to play the next disc. Play begins with the next disc and all the discs are played once, including the skipped disc.

• Discs can be skipped during play.

Selecting a track directly

- 1 Press one of the DISC DIRECT PLAY(DISC 1-5) buttons to select a disc.
- 2 Press the numbered buttons and the +10 button to select a track.

Example:

To select the 25th track, press the +10, +10 and 5 buttons.

To select the 10th track, press the +10 and 0 buttons.

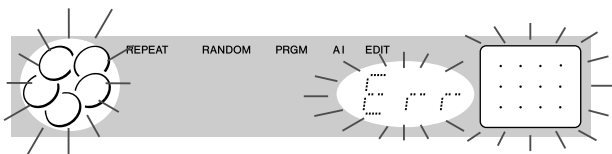
The selected track starts to play and continues to the end of that disc.

## Replacing discs during play

While one disc is playing, the other discs can be replaced without interrupting play.

- 1 Press the DISC CHANGE(CHANGE) button.
- 2 Remove the discs and replace with other discs.  
To replace the other two discs, press the DISC CHANGE (CHANGE) button again.
- 3 Press the ▲ OPEN/CLOSE button to close the disc compartment.

## If "Err" (error) appears in the display window



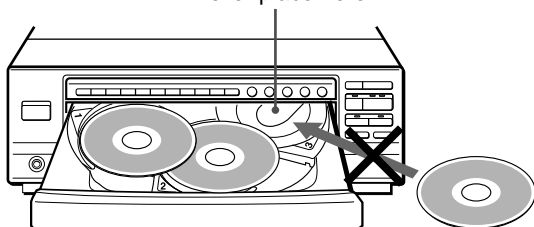
It means that an error has occurred in the movement of the disc compartment. The disc compartment may not close. A disc or something must be stuck in the disc compartment. Remove it, then press the ▲ OPEN/CLOSE button to close.

### NOTE

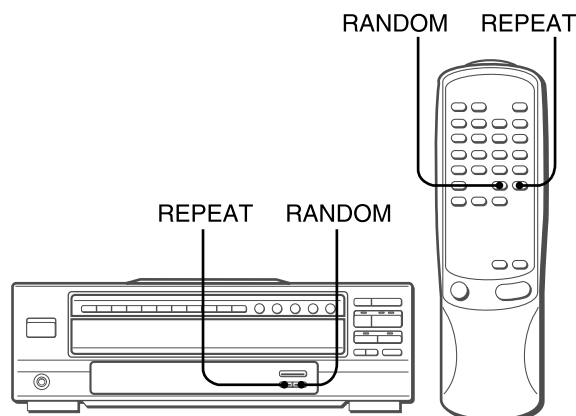
- When loading an 8-cm (3-inch) disc, make sure to put it onto the inner circle of the tray precisely. Otherwise, the disc may be damaged or the disc compartment will not open. If it does not open, please consult your Aiwa dealer for repair.
- Do not place more than one compact disc on the disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- When transporting the unit, remove the discs from the trays.
- When replacing the discs during play, do not replace discs other than those facing you.

If you place a disc on the empty right inner tray, and then press the ▲ OPEN/CLOSE button "Err" is displayed and the disc compartment may not close. Remove the disc on that tray.

Never place here.



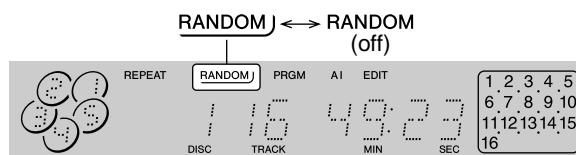
## RANDOM/REPEAT PLAY



### RANDOM PLAY

All the tracks on the selected disc or on all discs in the compartment can be played randomly.

Press the **RANDOM** button so that **RANDOM** in the display is surrounded by " \_ ".



### To cancel random play

Press the **RANDOM** button so that " \_ " in the display goes out.

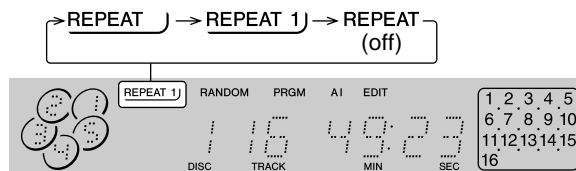
### NOTE

- Even if the ◀◀/▶▶ button is pressed, the previously played track cannot be skipped.
- Direct selection of the tracks with the numbered buttons is not possible.
- While **REPEAT 1** mode is selected, pressing the **RANDOM** button will cancel this repeat mode.

### REPEAT PLAY

The current track, all the tracks on the selected disc, or all tracks on all discs in the compartment can be played repeatedly.

Press the **REPEAT** button repeatedly.



To repeat the selected disc or all discs, select **REPEAT J**.

To repeat only the current track, select **REPEAT 1 J**.

### To repeat only selected tracks

Program the desired tracks before selecting repeat play.

**To cancel repeat play**

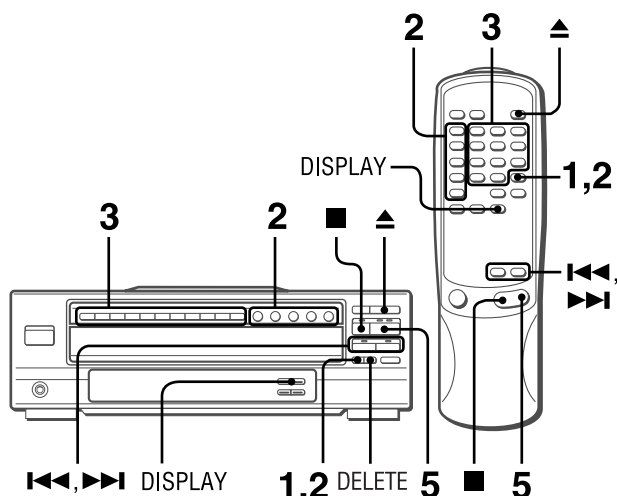
Press the REPEAT button so that “ ” in the display goes out.

**NOTE**

- During random play, REPEAT 1) mode cannot be selected to repeat only the current track.
- If the REPEAT button is pressed while the auto power off is in operation, the auto power off is canceled.

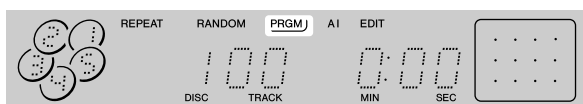
**PROGRAMMED PLAY**

The CD player has a built-in memory function that allows play of up to 32 memory banks over five discs in any order. Each of 32 memory banks can be one track or one whole disc.

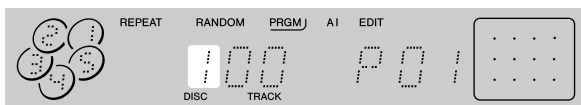


**1 Press the PRGM/CHECK button in stop mode.**

PRGM in the display is surrounded by “ ”.



**2 Press one of the DISC DIRECT PLAY(DISC 1-5) buttons to select a disc.**



To program the whole disc, press the selected DISC DIRECT PLAY(DISC 1-5) button again, the tracks numbers on the music calendar flash for 6 seconds. Press the PRGM/CHECK button within this 6 seconds to program.

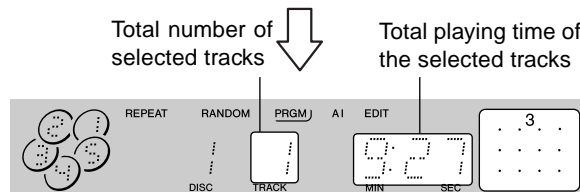
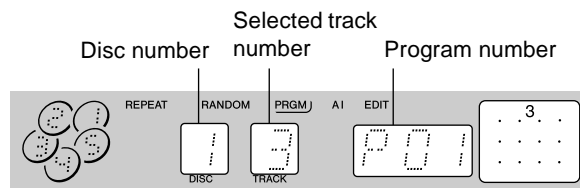


To select a track, go to step 3.

**3 Press the numbered buttons and the +10 button to program a track.**

**Example:**

To select the 12th track, press the +10 and 2 buttons.  
To select the 20th track, press the +10, +10 and 0 buttons.



- ◀◀ and ▶▶ buttons can also be used to select a track by pressing this buttons repeatedly and then press the PRGM/CHECK button within 6 seconds to program this selected track.

**4 Repeat step 2 and 3 to program other tracks or disc.**

**5 Press the ▶|| button to start play.**

**To check the program**

Each time the PRGM/CHECK button is pressed before playing, a disc number, a track number, and a program number are displayed.

**To add tracks to the program**

Repeat steps 2 and 3 in stop mode, The track will be programmed after the last track.

**To delete a programmed track**

Press the PRGM/CHECK button in stop mode to display the track to be deleted, and then press the DELETED button on the main unit.

**To clear the program**

Press the ■ button in stop mode, or press the ▲OPEN/CLOSE button.

**To check the amount of time remaining until the current track finishes playing**

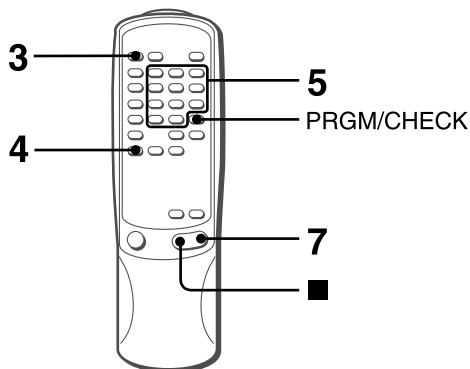
Press the DISPLAY button during playing.

**NOTE**

- The DISC CHANGE, DISC SKIP and DISC DIRECT PLAY buttons do not operate during programmed play.
- You cannot see the amount of time remaining of all programmed tracks.
- If track 31 and above of a disc is programmed, the total playing time of the selected tracks is not displayed.

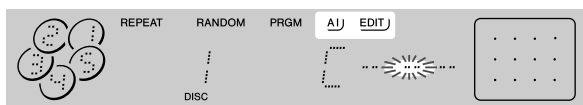
# AI EDIT RECORDING

The AI EDIT function lets you record tracks from one disc without worrying about tape lengths and track lengths. When you insert a CD, the unit automatically calculates track lengths. If necessary, it rearranges the order of tracks, so that no track is cut short.





Use the remote control.

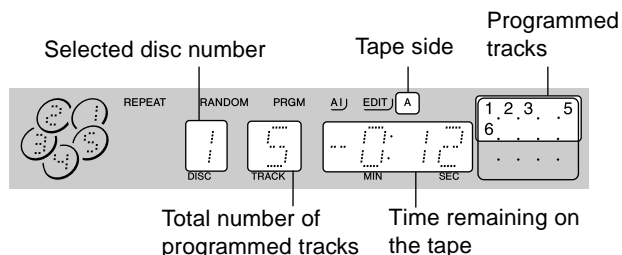
- 1 Prepare for recording.
- 2 Load the disc(s) onto the disc trays.
- 3 Press the DISC SKIP button to select a disc.
- 4 Press the AI EDIT button.




“” appears around AI and EDIT in the display.


## 5 Press the numbered buttons to designate the tape length.



Enter a length from 10 to 99 minutes.  
 Example: when using a 60-minute tape, press the 6 and 0 buttons.  
 In a few seconds, the microcomputer determines the tracks to be recorded on each side of the tape.  
 • The  and  buttons are also available to designate the tape length.



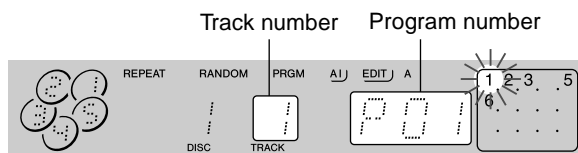
## 6 Select the proper function (CD or AUX) in the stereo system.

- 7 Start recording.  
 Press the  button on the XC-30M to start play and the button for recording on the connected stereo system.  
 After play of programmed tracks on side A finishes, the XC-30M pauses. Reverse the cassette tape and start play and recording again. Play of programmed tracks on side B starts.

**To stop recording in the middle of the program**  
 Press the  button on the cassette deck.

**To clear the edit program**  
 Before recording, press the  button twice so that “” around EDIT goes out.

**To check the order of the programmed tracks**  
 Before recording, press the AI EDIT button to select side A or B, and press the PRGM/CHECK button repeatedly. The tracks in the program are shown from the first track.



**To delete a programmed track**  
 Before recording, press the AI EDIT button to select side A or B, and press the PRGM/CHECK button repeatedly to display the track to be deleted, and then press the DELETE button on the main unit.

**To add tracks to the edit program**  
 If there is any time remaining on the tape after step 6, you can add tracks from other discs in the CD compartment before recording starts.

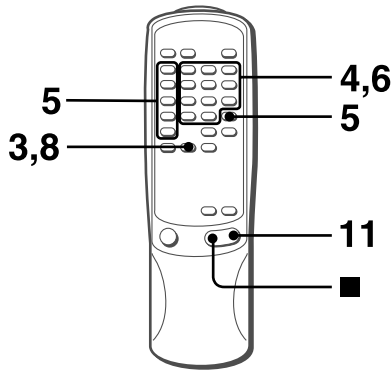
- 1 Press the AI EDIT button to select side A or B.
- 2 Press one of the DISC 1-5 buttons to select a disc.
- 3 Press the numbered buttons to select tracks.  
 If the playing time of a selected track is longer than the remaining time, it is not added.
- 4 Repeat steps 2 and 3 to add more tracks.

**NOTE**  
 The AI edit recording cannot be used with discs containing 31 tracks or more.



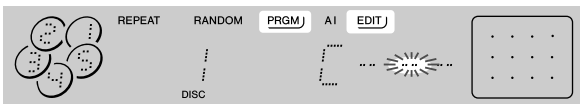
# PROGRAMMED EDIT RECORDING

This function lets you program tracks to be recorded from all of the discs, in any order. The remaining time on each side of the tape is displayed as you program the tracks.



Use the remote control.

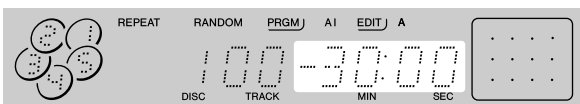
- 1 Prepare for recording.
- 2 Load the disc(s) onto the disc trays.
- 3 Press the PRGM EDIT button.



"    " appears around PRGM and EDIT in the display.

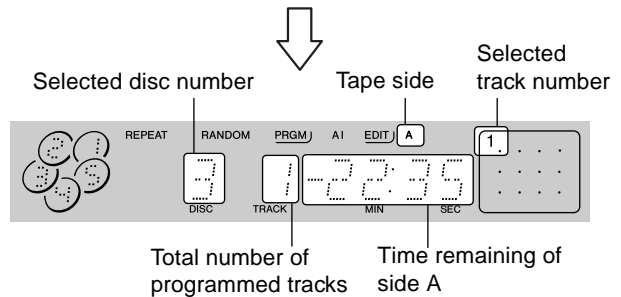
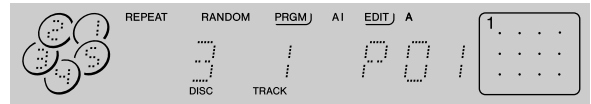
- 4 Press the numbered buttons to designate the tape length.

Enter a length from 10 to 99 minutes.  
Example: when using a 60-minute tape, press the 6 and 0 buttons.



- 5 Press one of the DISC 1-5 buttons to select a disc.  
To program the whole disc, press the selected DISC 1-5 button again, the track numbers on the music calendar flash for 6 seconds. Press the PRGM/CHECK button during these 6 seconds to enter the program.  
To select a track, go to the next step.

- 6 Press the numbered buttons and the +10 button to program a track to be recorded on side A.



- 7 Repeat steps 5 and 6 to program the rest of the tracks on side A.

A track whose playing time is longer than the remaining time cannot be programmed.

- 8 Press the PRGM EDIT button to select side B.

- 9 Program the tracks to be recorded on side B.

After confirming the side in the display, repeat steps 5 and 6.

- 10 Select the CD or AUX function in the stereo system.

- 11 Start recording.

Press the ►/|| button on the XC-30M to start play and the button for recording on the connected stereo system.

After play of programmed tracks on the front side finishes, the XC-30M pauses. Reverse the cassette tape and start play and recording again. Play of programmed tracks on the reverse side starts.

### To stop recording in the middle of the program

Press the ■ button on the cassette deck.

### To check the order of the programmed tracks

Before recording, press the PRGM EDIT button to select side A or B, and press the PRGM/CHECK button repeatedly. The tracks in the program are shown from the first track.

### To delete a programmed track

Before recording, press the AI EDIT button to select side A or B, and press the PRGM/CHECK button repeatedly to display the track to be deleted, and then press the DELETE button on the main unit.

### To change the program of each side

Press the PRGM EDIT button to select side A or B, and press the ■ button to clear the program of the selected side. Then program tracks again.

### To clear the edit program

Before recording, press the ■ button twice so that "    " around EDIT goes out.

### NOTE

In programmed edit recording, only the first 30 tracks of a disc can be edited, even if the disc contains 31 tracks or more.

## CARE AND MAINTENANCE

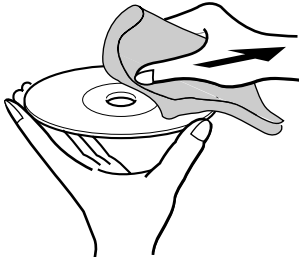
Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

### To clean the cabinet

Use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

### Care of discs

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



- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

## SPECIFICATIONS

<b>Disc</b>	Compact disc
<b>Scanning method</b>	Non-contact optical scanner (semiconductor laser application)
<b>Laser</b>	Semiconductor laser ( $\lambda = 750 - 800 \text{ nm}$ )
<b>Rotation speed</b>	Approx. 500 rpm – 200 rpm (CLV)
<b>Error correction</b>	Cross Interleave, Reed Solomon code
<b>No. of channels</b>	2 channels
<b>D-A converter</b>	1-bit dual
<b>Wow/Flutter</b>	Unmeasurable
<b>Signal to noise ratio</b>	90 dB (1 kHz, 0 dB)
<b>Harmonic distortion</b>	0.05 % (1 kHz, 0 dB)
<b>Low pass filter</b>	8 times digital filter + active filter
<b>Outputs</b>	
<b>DIGITAL OUT (OPTICAL)</b>	
<b>AUDIO OUT</b>	2.0 V (47 k ohms)
<b>VIDEO OUT</b>	1V p-p (75 ohms)
<b>PHONES(stereo)</b>	accepts headphones of 32 ohms or more
<b>Power requirements</b>	120 V AC, 60 Hz
<b>Power consumption</b>	20 W
<b>Dimensions (W × H × D)</b>	430 × 147 × 366 mm
<b>Weight</b>	5.6 kg
<b>Accessories</b>	Remote control (1) Audio connecting cord(1)

- Specifications and external appearance are subject to change without notice.

### NOTE

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 circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

# PARTS INDEX

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Instructions about each part on the unit or remote control are indicated on the pages listed below.

## Main unit

Parts	Pages
DELETE	6,7,8
DISC CHANGE	4
DISC DIRECT PLAY	4,6
DISPLAY	4,6
▲ OPEN/CLOSE	4
PHONES	3
▶  PLAY/PAUSE	4,6
POWER	3
PRGM/CHECK	6,7,8
RANDOM	5
REPEAT	5
SLEEP	3
■STOP/CLEAR	3,4,6,7,8
0-9, +10	4,6
▶▶/▶▶	4,6
◀◀/◀◀	4,6

## Remote control

Parts	Pages
AI EDIT	7
CHANGE	4
DISC SKIP	4,7
DISC 1-5	4,6,7,8
DISPLAY	4,6
▲OPEN/CLOSE	4
POWER	3
PRGM/CHECK	6,7,8
PRGM EDIT	8
RANDOM	5
REPEAT	5
▶▶/▶▶ SKIP/SEARCH	4,6,7,8
◀◀/◀◀ SKIP/SEARCH	4,6,7,8
▶/	4,6,7,8
■	4,6,7,8
0-9, +10	4,6,7,8

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For assistance and information

***call toll free 1-800-BUY-AIWA*** (United States and Puerto Rico)

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