# KENWOOD

# XD-A31 XD-302

XD-352

XD-372S

### **INSTRUCTION MANUAL**

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above. Model availability and features (functions) may differ depending on the country and sales area.



B60-4304-08 00 (MA) (K,M,T,X,Y) (OC) 99/01

### Units are designed for operation as follows.

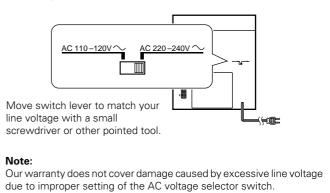
U.S.A. and Canada	AC	120 V only
Austraria	AC	240 V only

Europe and U.K. ..... AC 230 V only \*Other countries...... AC 110-120 /220-240 V switchable

#### AC voltage selection

This unit operates on 110-120 or 220-240 volts AC . The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

#### AC voltage selector switch



### Safety precautions

**WARNING :** TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION RISK OF ELECTRIC SHOO DO NOT OPEN	ж	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	INTENDED TO A WITHIN THE PRO	FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS LERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" DDUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE TRIC SHOCK TO PERSONS.
	TO THE PRESEN	ION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER CE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS URE ACCOMPANYING THE APPLIANCE.

### The marking of products using lasers (Except for some areas)



The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

В

### Contents

### Preparation

A Before applying power	2
▲ Safety precautions	
Contents	
CHANNEL SPACE setting	
Special features	
Demonstration	
Accessories	
/ IMPORTANT SAFEGUARDS	5
Handling of discs and tapes	7
system connection	
AM loop antenna connection	
FM antenna connection	
Connection of the speaker system	9
Connection of options (Optional parts)	
Controls and indicators	
CD and Receiver unit	
Cassette deck unit	
Display	
Operation of remote control unit	
Clock adjustment	

### **Operation**

Let's put out some sound	
•	
Muting the sound temporarily	

### **CHANNEL SPACE** setting

### (Except for the U.S.A., Canada, U.K. Europe and Australia)

The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM (SW/MW/FM) broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

Area		CHANNEL SPACE freq.
1	USA, Canada and South American countries	FM : 100 kHz AM : 10 kHz
2	Other countries	FM : 50 kHz AM : 9 kHz

Listening through headphones	15
Changing the Tone (Selecting the equalizer pattern )	15
Changing the Tone (Selecting the bass boost )	
Playback of CDs	
Sequential playback from the first track	16
Playback from the desired track	17
Listening in the desired sequence (program playback)	18
Repeat Playback	20
Random Playback	21
Receiving broadcast station	22
Collective presetting of stations (auto preset)	23
One-by-one presetting (manual preset)	23
Playback of tapes	
Recording (Deck B only)	
Copying tape (Tape dubbing)	28
Convenient CD recording	
Recording only desired titles (CD ONE TRACK RECORDING)	30
Recording of an entire CD (CD DIRECT RECORDING)	
Recording the programmed titles (CD PROGRAM RECORDING)	
Timer operation	
Sleep timer (SLEEP)	
Timer programming	

### Knowledge

Important Items	38
In case of difficulty	
Specifications	42

Select the TUNER input.
 While holding the SELECT key depressed, turn the SOUND CONTROL jog dial to select the system mode.



• The "AM" display is variable depending on the model (country or area), and "MW" may be displayed in some areas.

Stablish the selection.



### Special features

#### 3-Disc carousel CD player

Three discs can be set. There are various ways for enjoyment at the time of program play back, repeat playback, random playback, etc.

#### Double cassette deck

Two tape decks are installed, permitting dubbing from tape to tape and relay playback.

#### Simplified operations using large-sized Jog Dial

This dial allows you to set the CD program and timer-related operations while observing the operating conditions shown by the display and icons.

#### 3D large-sized color display panel

The large sound level meter represents the movement in music with brilliant colors to offer the joy of viewing the music at the same time as listening.

#### **Convenient Timer Functions**

An ON/OFF timer for listening at the same time each day and a sleep timer are provided.

### Demonstration

When the power supply is restored after a power failure or the power cord is unplugged and plugged in again during use, this unit automatically starts the demonstration function (display only), During the demonstration, the display changes in sequence but the audio does not change. The demonstration can be canceled with the following procedure.

#### To switch over the demonstration :

Turn the unit OFF (STANDBY mode) and press the key.

Each press of the key switches the demonstration as shown below.

① "Demo on" (Demonstration executed)
 ② "Demo off" (Demonstration canceled)

• The setting is remembered even when the power is switched off.

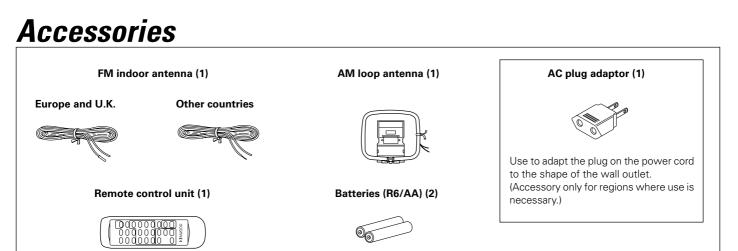
#### Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Keep this manual handy for future reference.

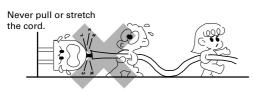


### IMPORTANT SAFEGUARDS

XD SERIES (En)

Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

- 1. Power sources The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.
- 2. Power-cord protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



- **3. CAUTION Polarization** This appliance may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 4. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a tablecloth on the appliance. Place the appliance at least 10 cm away from the walls.

Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



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

- Temperature The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- 7. Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 8. Electric shock Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.



**9. Enclosure removal** – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



- 10.Magnetic fields Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- **11.Cleaning** Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- **12.Accessories** Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



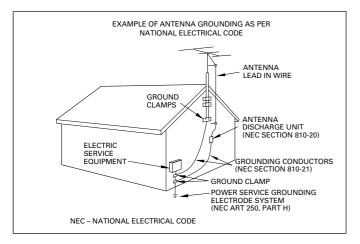
- **13. Lightning** For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
- **14.Abnormal smell** If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.



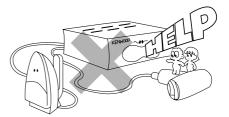
- **15.Damage requiring service** The appliance should be serviced by qualified service personnel when:
  - **A.** The power-supply cord or the plug has been damaged.
  - **B.** Objects have fallen, or liquid has been spilled into the appliance.
  - C. The appliance has been exposed to rain or water.
  - D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
    E. The appliance has been dropped, or the enclosure damaged.

F. The appliance exhibits a marked change in performance.

- **16.Servicing** The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
- **17.Outdoor antenna grounding** If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/ NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



- **18. Power lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **19.AC outlets** Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.



- **20. Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **21. Attachment** Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- **22. Replacement parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **23. Safety check** Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

#### Notes:

- 1. Item 3 is not required except for grounded or polarized equipment.
- Item 17 and 18 are not required except for units provided with antenna terminals.
- 3. Item 17 complies with UL in the U.S.A.

### Handling of discs and tapes

### Disc handling precautions Label side Playing side Sticker

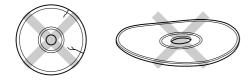
Sticky paste

#### Handling

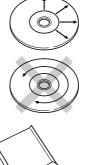
Hold compact discs so that you do not touch the playing surface.

- Do not attach paper or tape to either the playing side or the label side of compact discs.
- The paste left on the label surface after a sticker has been peeled off is a factor which may cause malfunction. If the surface is sticky due to remaining paste, be sure to clean it with alcohole before use

### Caution on disc used



### Discs which can be played with this unit



#### Cleaning

If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards, in a radial manner



#### Storage

When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

#### Never play a cracked or warped disc.

During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

#### Do not use cleaning discs.

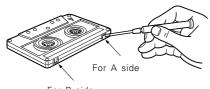
Please do not use commercially available cleaning discs, they may damage the internal mechanism.

#### CD (12 cm, 8 cm)

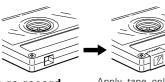
• With CD-G (CD Graphics) discs, this unit can play only the audio.

#### Notes on cassette tape

Safety tab (accidental erasure prevention tab) After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.







1. Longer tape than 110 minutes cassette tape

Since longer tape than 110 minutes cassette tape is

very thin, the tape could adhere to the pinch roller or be easily cut. It is recommended that these tapes not be used with this unit to prevent possible damage.

To re-record

Apply tape only to the position where the tab has been removed.

#### To store cassette tapes

Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



#### When there is slack in the tape

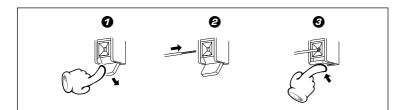
In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



#### 2. Endless tapes

Do not use an endless tape, as this could damage the mechanism of the unit.

Preparation



### **Caution regarding placement**

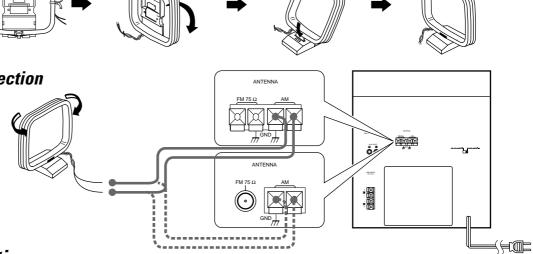
To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

Rear panel: 10 cm

### AM loop antenna connection

### AM loop antenna connection The supplied antenna is for

indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.



### FM antenna connection

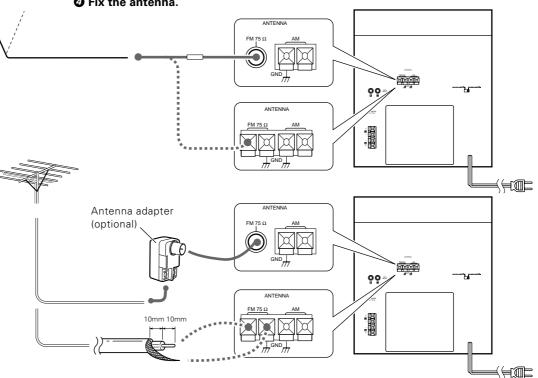
### FM indoor antenna connection

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.

- **O** Strip the coating from the tip of cord and twist the conductor. (Except for Europe and U.K.)
- **O** Connect to the antenna terminal.
- **O** Locate the position providing good
- reception condition.
- Ø Fix the antenna.

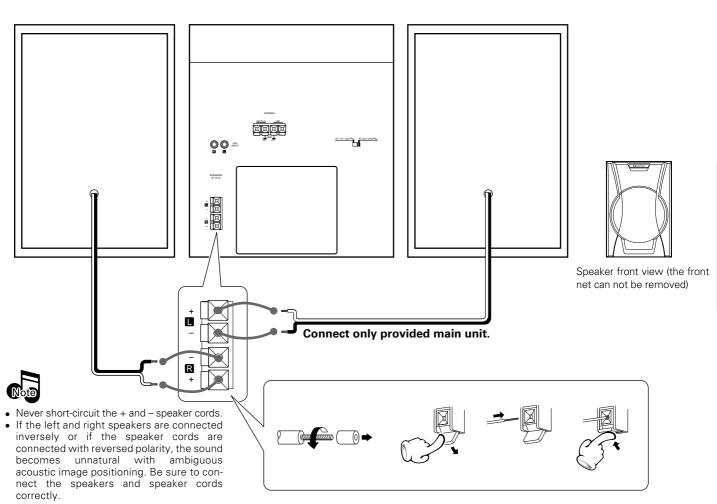


Lead the  $75\Omega$  coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM  $75\Omega$ termimal.

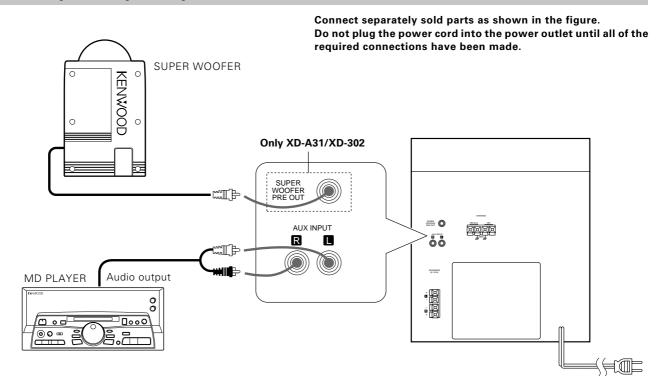


Connection of the speaker system

Do not plug the power cord into the power outlet until all of the required connections have been made.

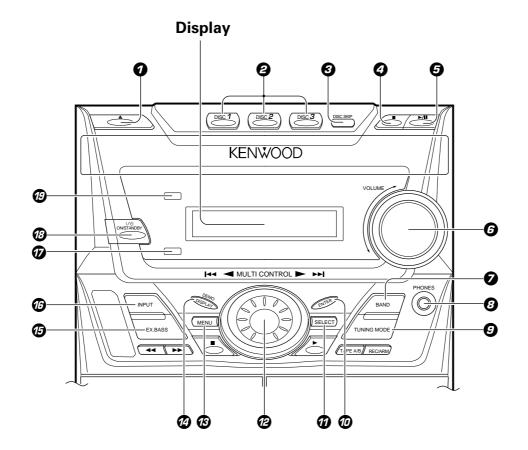


Connection of options (Optional parts)



Preparation

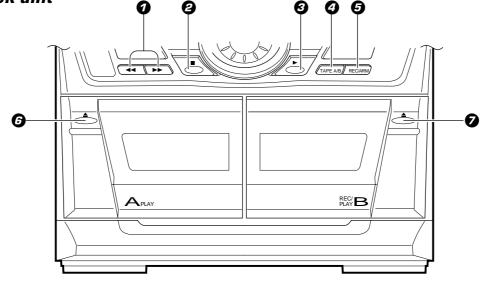
### CD and Receiver unit



Ø OPEN/CLOSE (≜) key	→ 16
The disc tray is opened and closed.	
Disc selection keys	+ 17
The disc number is selected directly and playback sta	rts.
ODISC SKIP key	+ 17
Used to skip discs.	
ØStop (∎) key	→ 16
ອPlay/pause (►/II) key	<b>→</b> <u>16</u>
OVOLUME CONTROL knob	<b>→</b> 14
This is used for volume adjustment.	
BAND key	+ 22
Press to switch the receiving band.	
PHONES terminal	+ 15
For connection of a headphone (optional).	
OTUNING MODE key	+ 22
Switches the tuning mode.	
ØENTER key	→ 18
Used for entering a selected mode in memory or exec	outing it.
<b>Ø</b> SELECT key	→ 18
Used for setting of various modes or establishing a se	election.

ØMULTI CONTROL jog dial Turn this dial to select optimum modes according to a desired operations.	<u>)</u> the
When the CD input is selected, this dial is used to skip trac When the TUNER input is selected, this dial is used to selected a station	
	<u>)</u> jog
Ø DISPLAY/DEMO key	15
Switches the display contents.	
*Used for demonstration (DEMO) ON/OFF.	
ⓓ EX. BASS (Extra bass) key → 🗋	5
Switches the extra bass play on and off.	
ØINPUT key →	4
Key for input switching.	
<b>O</b> TIMER indicator	
Lights up when the timer is set.	
<b>②</b> ON/STANDBY (1/⊕) key →	4
ON/STANDBY (POWER) key (For U.S.A. Canada)	
Power ON/OFF switching is executed.	
@STANDBY indicator	

### Cassette deck unit



+ 25

→ 25 → 24

**→**24

**→**26

<b>②</b> Fast forward and rewind (◄◄, ►►) keys	
❷Stop (■) key	
ອPlay (►) key	
TAPE A/B selection key	
<b>G</b> REC/ARM key	
·	

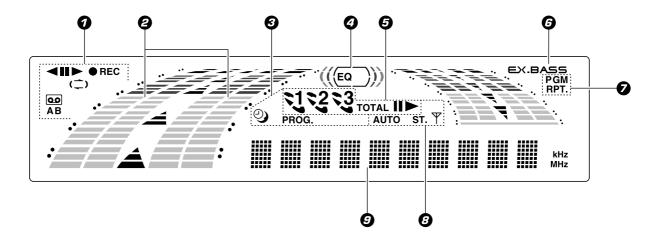
#### **G**TAPE A Cassette holder

Press the **A** section of cassette holder to remove and insert Tape A is used exclusively for playback.

#### **O**TAPE B Cassette holder

The Tape B Auto Reverse function can operate in Record and Playback modes.

### Display



#### **O** Cassette deck-related indicators

This section contains the cassette deck operation indicators. The indicated information includes the tape reverse mode and tape transport direction.

#### Sound level meter

The display varies according to the music or the operations of the CD, tape, etc.

During the volume adjustment, this meter displays the current sound level as a reference.

#### **③** Timer-related indicators

#### Equalizer indicators

**G** CD player-related indicators

This section contains the CD play and pause mode indicators. It also shows the disc number being selected.

- **G** EX.BASS indicator
- **Ø** PGM/RPT. indicators
- **③** Tuner-related indicators
- Character information display

Displays the input selection, frequency, volume level, etc.

Preparation

- 24

- 24

ฤ OWER SLEEF TIME 1/0 P Ø SOUND EX.BASS INPUT Θ Ø • RANDOM REPEAT BAND 0 Ð . -DISC SKIP A/B TAPE ► 6 Ð . 6 Ø Ø Ð . \_ ► MUTE 8 Ð . -0 SELECT  $\bigtriangleup$ CONTRO -09 VOLUME ENTER MENU Ф П **KENWOOD** XD REMOTE CONTROL UNIT RC-352

The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

#### **Ø**SLEEP key

Key for setting the sleep timer	
- 34	
ØTIME key → 17	
Press to switch the time informa-	
tion on the CD player unit.	
SOUND key → 15	
Switching between FLAT/JAZZ/	
POP/ROCK	
EX.BASS key - 15	
②RANDOM key → 21	
Used for CD random playback.	
REPEAT key - 20	
Used for CD repeat playback.	
DISC SKIP key - 17	
❻TUNING (◄◄, ►►) keys	
- 17 - 22	
Used for reception frequency tun-	
ing and as CD search keys.	
ØP.CALL (I◄◀, ►►I) keys	
- 18 - 22	
Used to call preset broadcasting	

Used to call preset broadcasting stations and as CD skip keys.

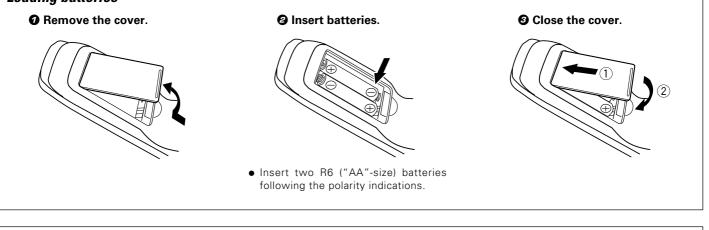
#### same functions as the MULTI CONTROL jog dial on the main unit. **Ø**SELECT key + 15 **@MENU** key + 15 + 15 **ØENTER** key **@POWER** (I/也) key → 14 Power ON/OFF switching is executed. **ØINPUT** key → 14 **ØBAND** key + 22 GTAPE A/B key + 24 Tape playback (►) key ⑦(CD) Play/pause (►/II) key → 16

**③MULTI CONTROL keys** → 15 The left and right keys have the

 ØStop (■) key
 → 16
 ØMUTE key
 → 15
 Used for temporary muting
 ØVOLUME key
 → 14

Loading batteries

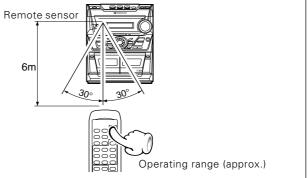


### Operation

Plug the power cord into the mains power outlet and press the on/standby (1/ $\oplus$  POWER) key of the remote control unit to turn power ON. After the power has been turned ON, press the desired key.

To turn power off, press the on/standby (1/ $\!\!\!/ \boxdot$  POWER) key again.

•When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.

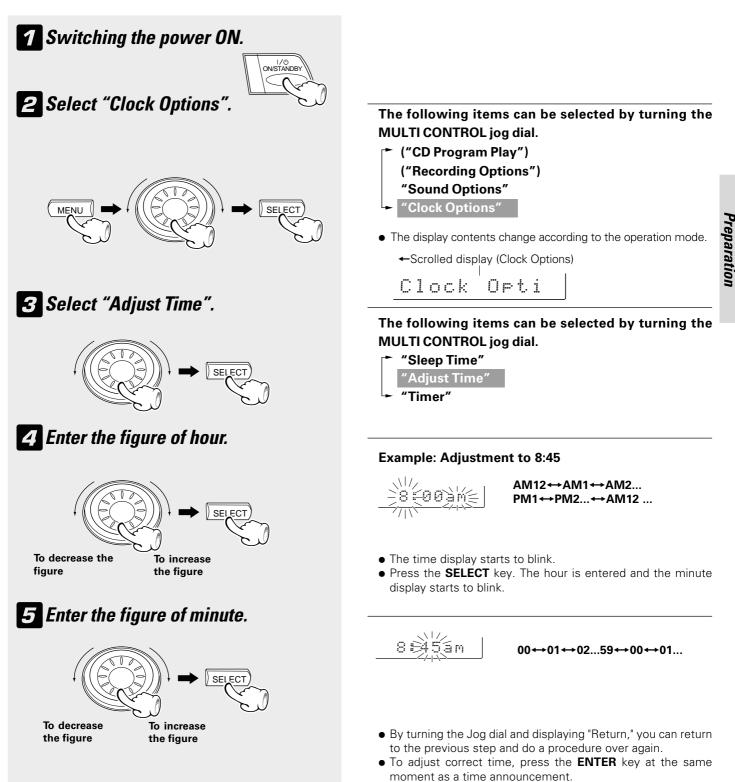


- 1. The provided batteries are intended for use in operation checking, and their service life may be short.
- 2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
- 3. If direct sunlight or the light of a high- frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

### **Clock adjustment**

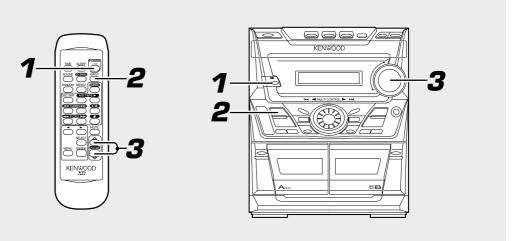
XD SERIES (En)

This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function. The time is displayed only while the power is off.



### Basic use method

XD SERIES (En)



### 1. Switching the power ON

If a disc has already been loaded in the CD player and the power is OFF, simply pressing the CD play key turns power automatically ON and starts playback.

### 2. Selecting the desired output

+ 22

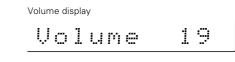
→ 16

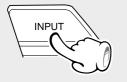
→ 24

-9

- ► 1) TUNER (Radio)
- 2 CD
- ③ TAPE
   ④ AUX (External input)
- When CD has been selected.
  - CD01 0:00

### 3. Volume adjustment





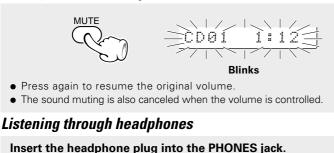
To increase volume

VOLU

To decrease volume

ー/也 ON/STANDBY

### Muting the sound temporarily (Remote control unit only)



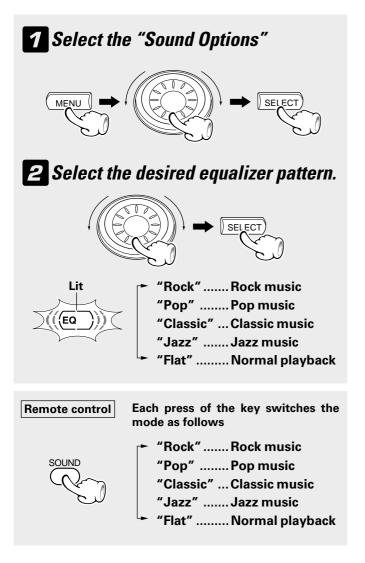


#### • The sounds from all speakers are cut off.

### Changing the Tone (Selecting the equalizer pattern )

Select the desired pattern according to the category of the played music.

• EX.BASS will be canceled when an Equalizer pattern is set.



### **STANDBY mode of ON/STANDBY** (1/()) switch

When the power cable plug of this unit is inserted into a receptacle, a minute current flows for memory protection. This status is referred to as the STANDBY mode, and the unit in the STANDBY mode can be turned ON from the remote control unit.

#### **One-touch operation function**

The power can also be turned ON by pressing the play key of the CD player, the play key of the cassette deck or the BAND key of the tuner.

It is also possible to turn the power ON by simply pressing the OPEN/CLOSE ( ▲ ) Key.

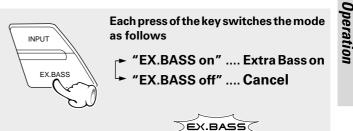
• When the CD or TAPE input is selected and a disc has been loaded in the disc tray or a tape has been loaded in the deck for use in playback, playback starts at the same time.

### Changing the Tone (Selecting the bass boost )

• The factory setting is ON.

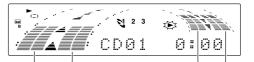
play mode

The Equalizer setting will be canceled when EX.BASS is ON



### Switching the sound level meter dis-Each press switches the modes as follows. "Display Auto" "Display 1"



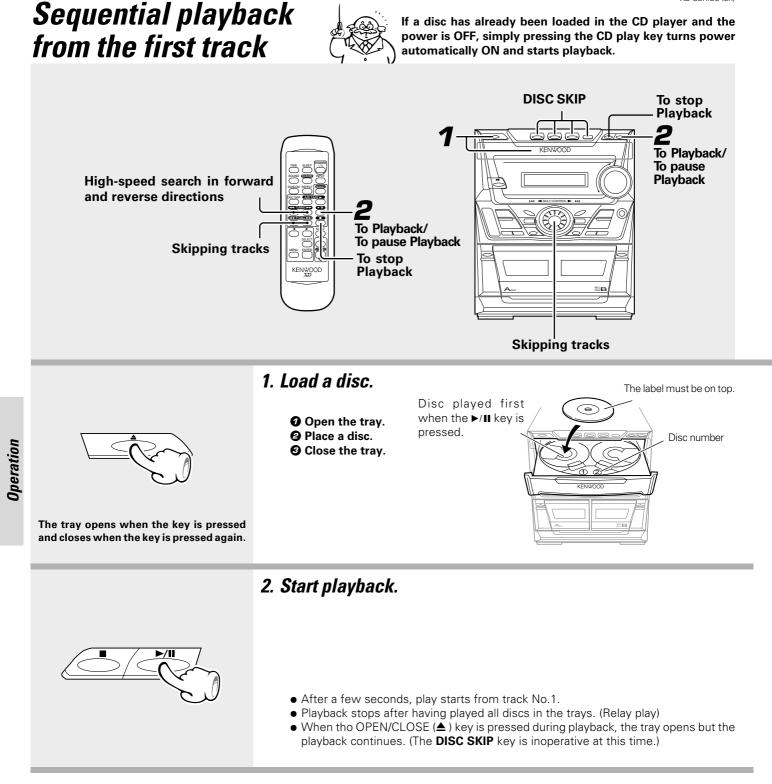


This part changes in 3 stages, depending on the display mode.

- When "Display Auto" is selected, the display mode during CD playback changes to "Display 1", "Display 2" and "Display 3" every time the track changes.
- "Display 3" is displayed regardless of the current music signal.

### 16 Playback of CDs

XD SERIES (En)



To stop playback

To pause playback

• Each press pauses and plays the CD alternately.

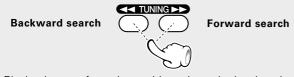
### Playback from the desired track

### Skipping tracks



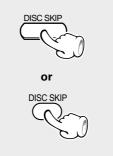
- The tracks in the direction the dial is rotated are skipped, and the selected track will be played from the beginning.
- When the jog dial is rotated a little in the direction of counterclockwise once during playback, the track being played will be played from the beginning.
  - The CD tracks can also be skipped using the I◄ or ►►I key of the remote control unit

### High-speed search in forward and reverse directions (Remote control unit only)

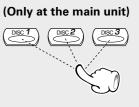


• Playback starts from the position where the key is released.

### Skipping to a Different Disc



- Each time this key is pressed, the unit skips to the next disc and playback starts.
- When no disc is set in a tray, the unit skips to the next tray.



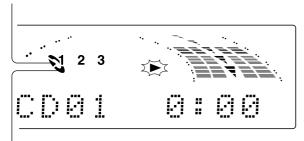
- Playback starts from the selected disc.
- When no disc is set in a tray, the unit skips to the next tray.

### Time display on the CD player

Each press of the TIME key of the remote control unit switches the displayed time information.

- Do not touch the played side of disc.
- Rotate the tray with the **DISC SKIP** key to insert the third disc.

The selected disc is indicated.



Lights when a disc is inserted at the time of playback.

### **Caution for Disc Handling**

Do not use a disc with exposed adhesive from attached cellophane or a rental CD seal, or from which such a seal etc. has been removed. When such a disc is played, removal may become impossible, and trouble can be caused.

(1) (2) # 1 (2) Elapsed time of track being played
(2) - 4 # 1 (3) Remaining time of track being played
(3) 1 (2) # 4 (6) Elapsed time of disc ("TOTAL" lights up)
(4) - 6 (3) # 1 (4) Remaining time of disc ("TOTAL" lights up)
• Only the elapsed time of the track being played is displayed during program playback and random playback.

**Do not look into the laser light.** Laser light getting into your eyes can impair your vision.

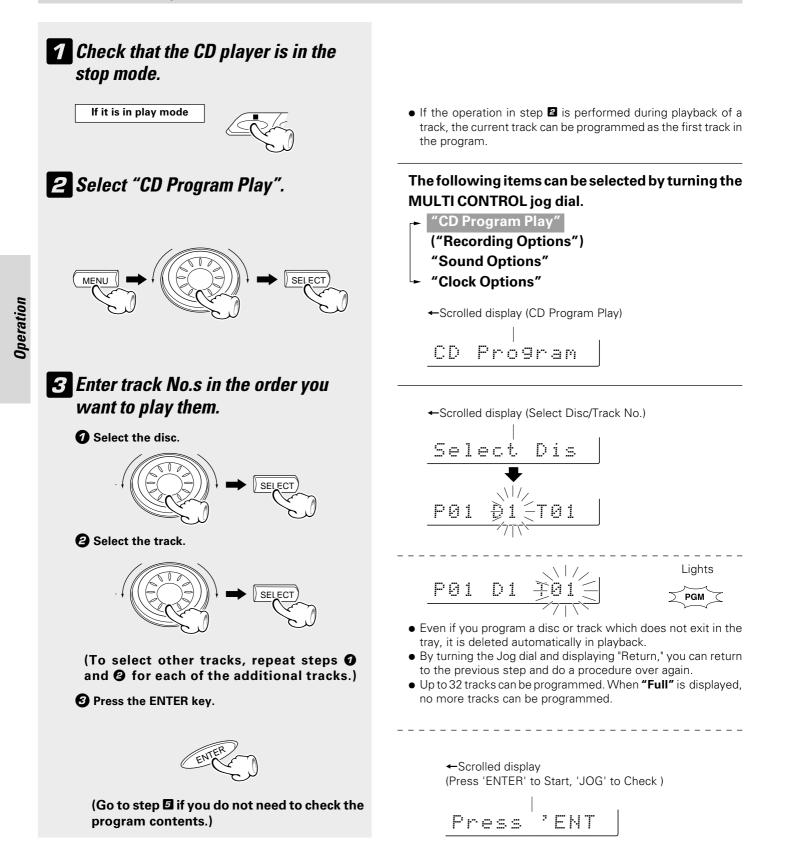
**Playback of CDs** 

XD SERIES (En)

### Listening in the desired sequence (program playback)

Any titles on the discs in the tray can be listened to in the desired sequence. (Max. 32 titles)

### Select the "CD" input.

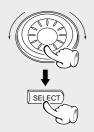


# **4** Check the programmed tracks (and replace, add or delete tracks as required).

To check:

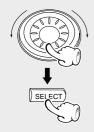


### To replace a track in the program:



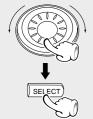
- Select the programmed disc or track to be replaced and press the SELECT key.
- ② Select a disc or track to replace the disc or track selected above (step ☑-⑦ and ②).

### To add a track to the program:



- Select the display as shown on the right and press the SELECT key.
- Perform the same operations as in step ☑-⑦ and ②.

### To delete a track from the program:



- Select the programmed disc or track to be cleared and press the SELECT key.
- **O** Select "clear" and press the SELECT key.
- 5 Enter it.



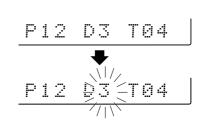
### (Playback starts from the first programmed track (program No. 1))

- Turn the **MULTI CONTROL** jog dial during program playback to the previous or next programmed track.
- When the jog dial is rotated a little in the direction of counterclockwise once during playback, the track being played will be played from the beginning.
- To check (modify, add or delete) the programmed tracks after playback, perform the operations in steps and

Press the TIME key on the remote control unit to switch the time display.

P01 D1 T02

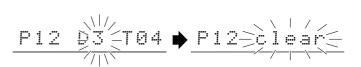
• The programmed tracks are displayed in sequence.



• The blinking item can be replaced.



• The added track number is added to the end of the existing program.



### To quit the program mode

**O** Select "CD Program Play".



### **O** Press the MENU key.



- Goes off
- If the key is pressed during playback, normal playback in order of tracks resumes from the current track.
- The program mode can also be canceled by pressing the ▲ key.

### **Repeated playback**

Desired titles or discs can be played back repeatedly.

### Select the "CD" input.

### *To repeat only one track To repeat a disc To repeat all discs*



### 1 Cancel "PGM".

If the "PGM" indicator is lit, make sure to turn it off. → 19

**2** Select the disc.



Goes off

PGM

### **3** Select the track.



### **4** Select repeat mode.

(Remote control unit only)



#### Press the key repeatedly to switch the display.

 (1) "Repeat" When "One Track Repeat" is selected during playback, the track being played back will be repeated.

- 2 "Disc Repeat"
- ③ "All Repeat"
- (4) Repeat canceled

Repeat



### To repeat only the programmed tracks

Perform the procedure in "Listening in the desired sequence (program playback)" till step 3 to program the desired CD tracks.

Lit





• All of the programmed tracks will be played repeatedly.

### **2** Start playback.



### **3** Select "All Repeat"

(Remote control unit only)



Press the key repeatedly to switch the display.

- ① "All Repeat"
- 2 Repeat canceled



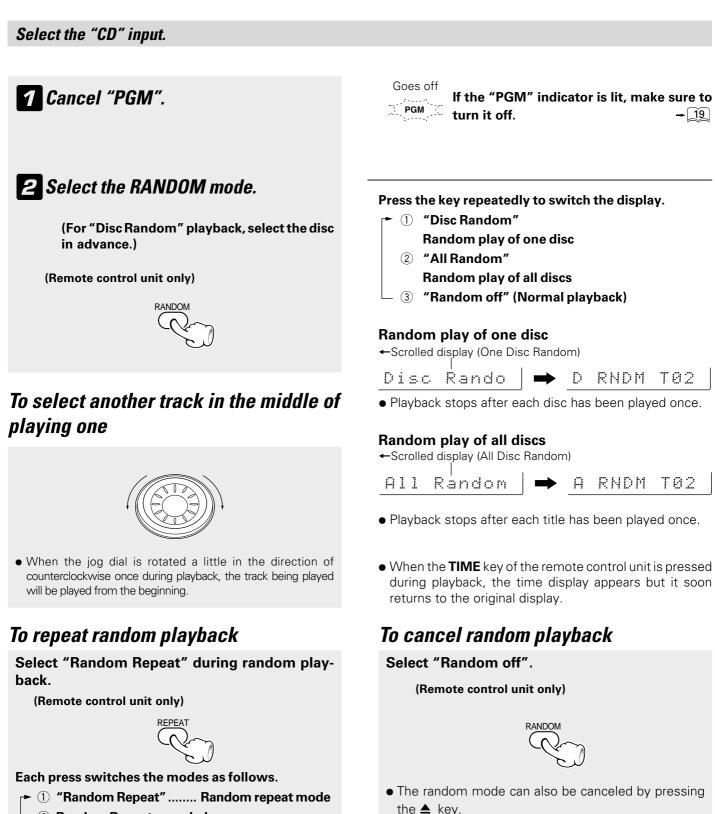
### To stop repeated playback

Press the REPEAT key repeatedly until the repeat mode is switched off.

 The repeat mode can also be canceled by pressing the ▲ key.

### Random playback

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it. Random playback can play tracks in one to three discs.



2 Random Repeat canceled

Normal playback in order of track numbers starts from the track being played.

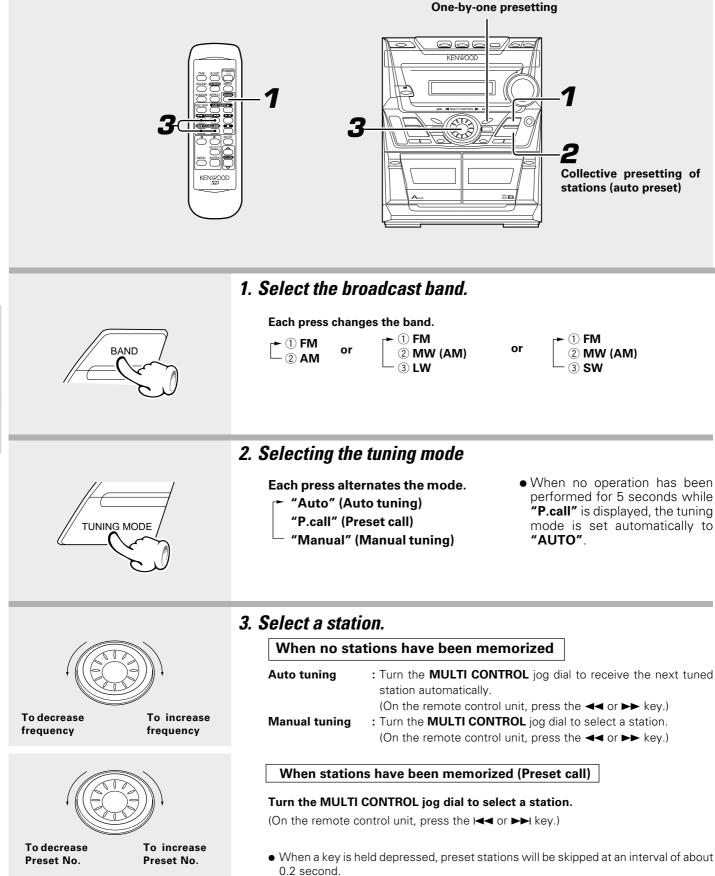
### 22 Receiving broadcast station

It is also possible to receive them by one-touch operations by storing up to 30 stations in the preset memory.



When the BAND key is pressed, this unit will be switched on automatically.

XD SERIES (En)



## *Collective presetting of stations (auto preset)*

Keep the TUNING MODE key depressed (about 2 seconds).



- Some stations may not be able to be preset if their reception conditions are weak.
- A maximum of 30 stations are preset automatically by giving the priority to the FM band.
- When there are many stations and the intended station has not been preset, please also use **"One-by-one presetting (manual preset)"**.
- The stations which have been preset are overwritten.

### One-by-one presetting (manual preset)

**O** Press the ENTER key during reception.



Presetting is cancelled when no operation is executed for 5 seconds or more.

Select one of the preset numbers from 1 to 30 during "Memory" is display.



Presetting is cancelled when no operation is executed for 5 seconds or more.

### **O** Press the ENTER key again.



- Repeat steps **923** to preset other stations.
- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.

- Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)
- Normally, use the **"AUTO"** (Auto tuning) mode.
- If you are operating the remote control unit, the "AUTO" (Auto tuning) and manual tuning mode can be alternated by pressing the stop (■) key.

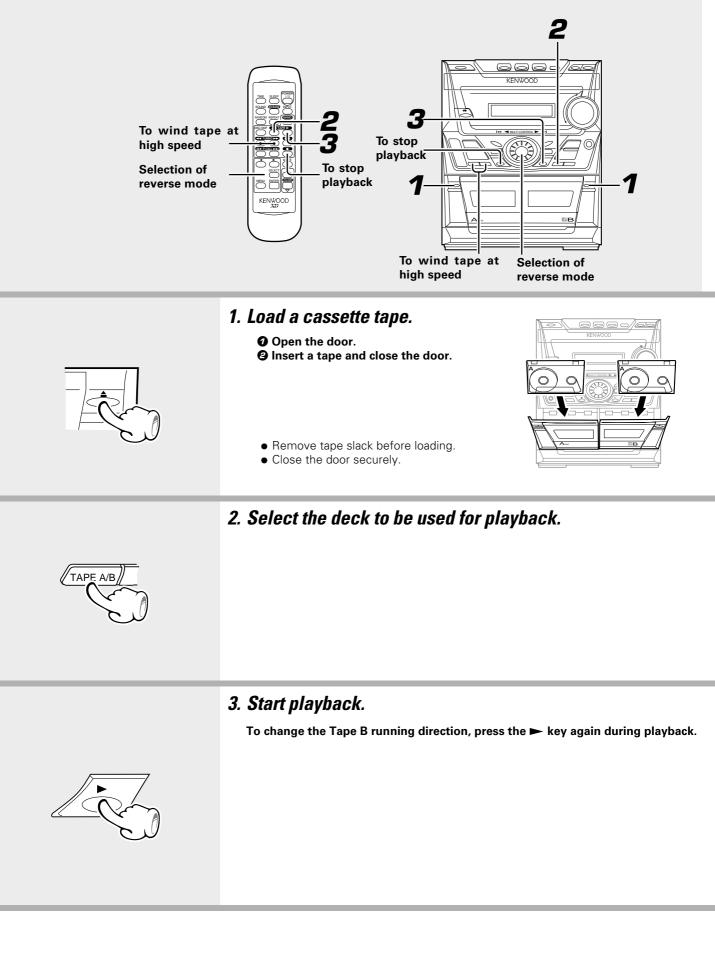
Lights during stereo reception Lights during auto tuning The "\" indicator lights when a station is received

### 24 Playback of tapes

#### XD SERIES (En)



By loading a tape in the cassette deck to be used in playback beforehand, simply pressing the play key automatically turns the power ON and starts playback.



### To wind tape at high speed

To fast wind in direction +

To fast wind in direction 🔿

● Press the ■ key to stop fast winding.

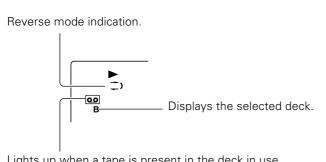
### To stop playback



• Do not take out the cassette tape until the tape transport has stopped completely.

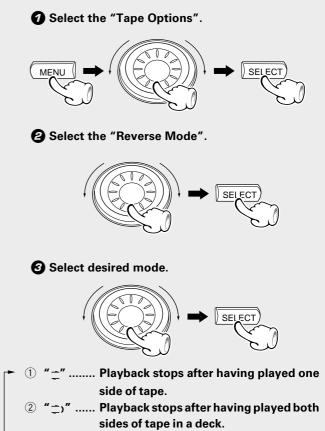
### Caution for cassette tape ejection

• Do not attempt to eject the cassette tape until the tape has been stopped completely by pressing the stop (■) key. Opening the cassette holder while the mechanism is running may lead to malfunction. Should it become impossible to close the cassette holder, turn power off then on again.



Lights up when a tape is present in the deck in use.

### Selection of reverse mode



③ "(\_)" ..... Endless playback of both sides of tape.

### **Relay play**

When a tape is inserted in both deck A and deck B, Relay Playback is possible and tape B playback will start when tape A playback is over.

- **1** Insert a tape in both deck A and deck B. **O** Select tape B Reverse mode.
- **O** Start tape A playback.

When tape A playback is over, tape B playback will start in the right arrow (>) direction, in accordance with the Reverse mode setting.

### Transport direction indicators

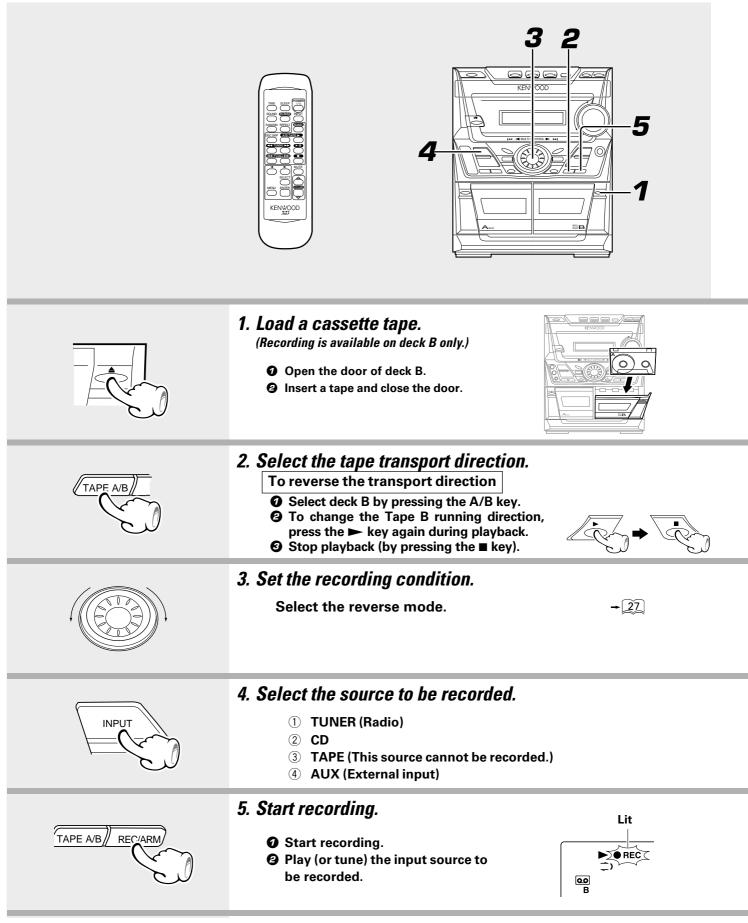
The indicators  $(\blacktriangleleft, \blacktriangleright)$  indicate the current direction in which the tape advances when playback or recording is started automatically by the one-touch operation function, etc. This direction is the direction stored in memory when the tape was last stopped.

Whenever you put in or take out a tape, the tape will always run in the **>** direction. (To change the tape running direction, press the ► key, and after playback has started, press the ► key again and then press the ■ key.) Tape direction indicators of currently selected deck.

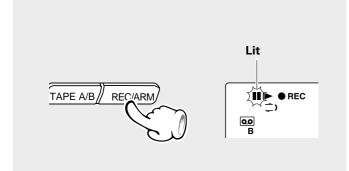


### Recording on TAPE

This unit cannot record on a high-position (Type II) tape or metal tape.



### To pause recording (Main unit only)



- Pressing the key pauses recording after leaving a non-recorded space of about 4 seconds.
- If the key is pressed again in less than 4 seconds after it has been pressed, recording resumes from that instant.
- This unit cannot record on a high-position (Type II) tape or metal tape.
- Remove tape slack before loading.
- When recording is started, the tape is transported in the direction selected in this step.
- Wind the tape to the position where recording is to be started.

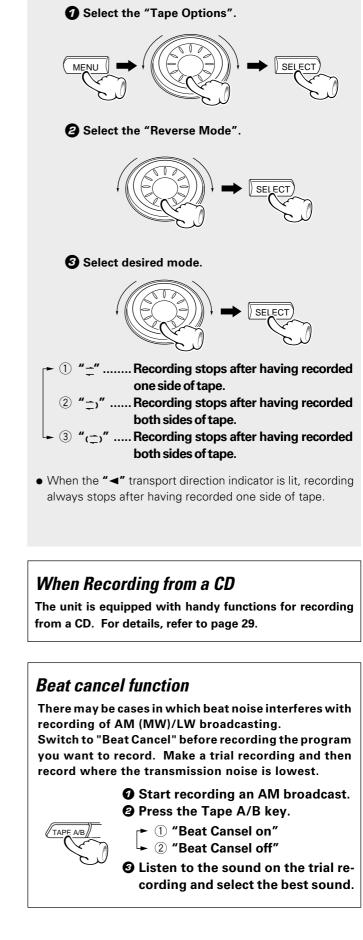
Check the tape transport direction indicator. → 25

### CD01 1:12

The input source component to be recorded should be displayed.

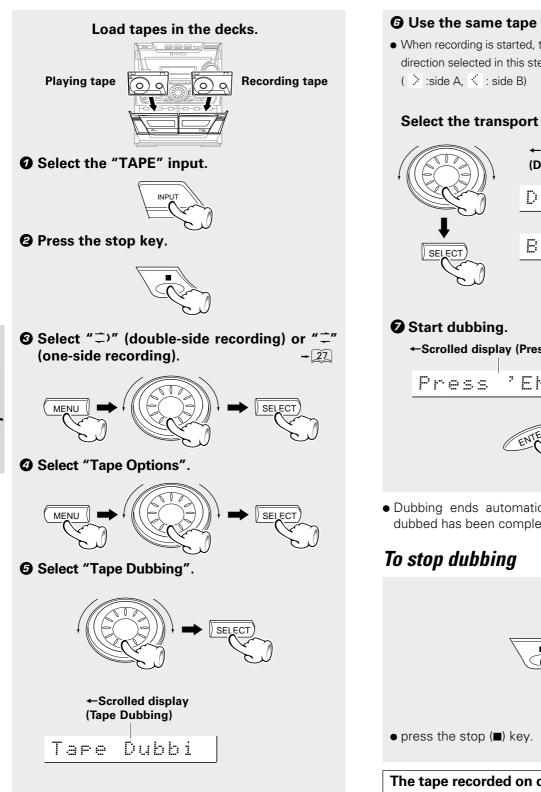
- If a disc has already been loaded when the CD input is selected, it will starts to play automatically. In this case, press the stop (■) key to stop it.
- Even if deck A is selected, it is automatically switched to deck B at the start of recording.
- Recording stops automatically when the tape side(s) to be recorded have been fully recorded.
- Press the stop (■) key of the cassette deck unit to stop recording.

### Selection of reverse mode



### Copying tape (Tape dubbing)

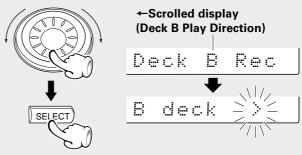
The contents of the tape in deck A can be copied onto the tape in deck B.



### **O** Use the same tape transport directions.

• When recording is started, the tape will be transported in the direction selected in this step.

### Select the transport direction of deck B.



←Scrolled display (Press 'ENTER' to Start)



• Dubbing ends automatically when the side(s) to be dubbed has been completed.



The tape recorded on deck B assumes the same Dolby NR condition as the tape played on deck A.

### **Convenient CD recording**

### Selection of the Recording Type

With this unit, the following edit recording is possible according to the purpose.



This unit cannot record on a high-position (Type II) tape or metal tape.

If you want to select the track to be recorded while playing a CD **→**30 Recording only desired titles Perform this operation when a track you want to CD ONE TRACK RECORDING record starts during CD playback. This starts recording of the track from the beginning. If you want to record a CD in order of track numbers Recording of an entire CD **→**[31] Perform the "CD DIRECT RECORDING" operation while **CD DIRECT RECORDING** the CD player is in stop mode to start recording. If you want to record only the desired tracks Recording the programmed titles → 32 Program the desired tracks from up to 3 CD discs in CD PROGRAM RECORDING the desired order and record the programmed play-



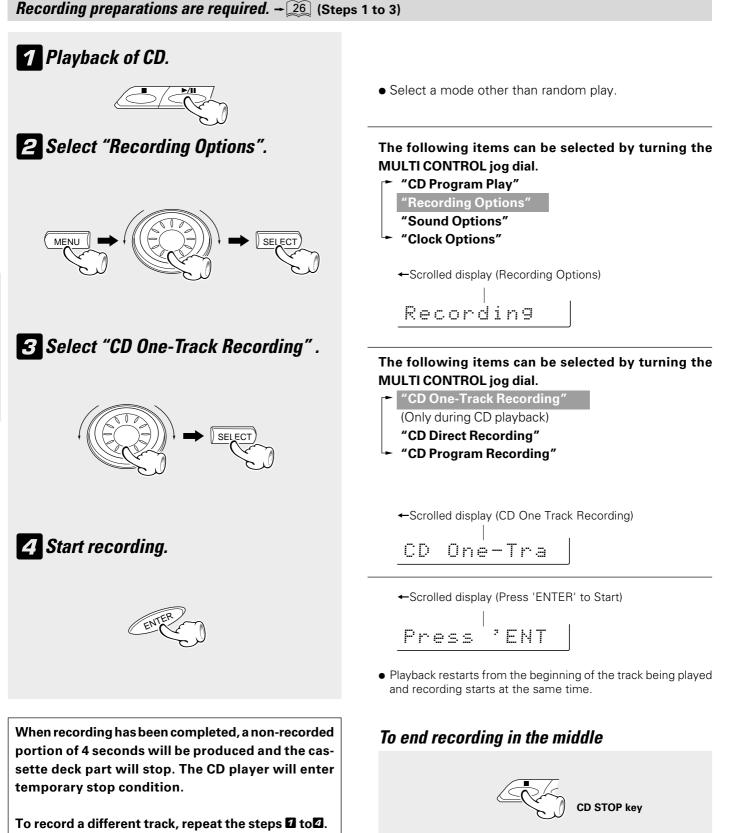
With recording onto tape, the track will be interrupted for the part of the guide tape at the tape reversal, where recording is not possible. Please use single-side recording if this is to be avoided.

back onto tape.

XD SERIES (En)

### Recording only desired titles (CD ONE TRACK RECORDING)

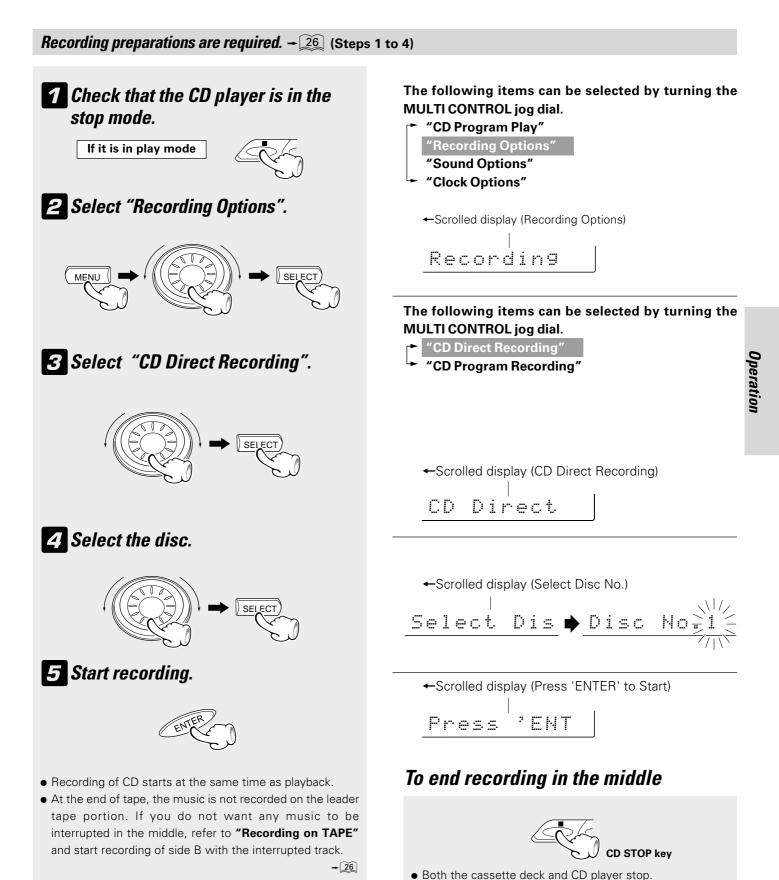
At the time of CD playback, any desired title can be selected immediately for recording.



30

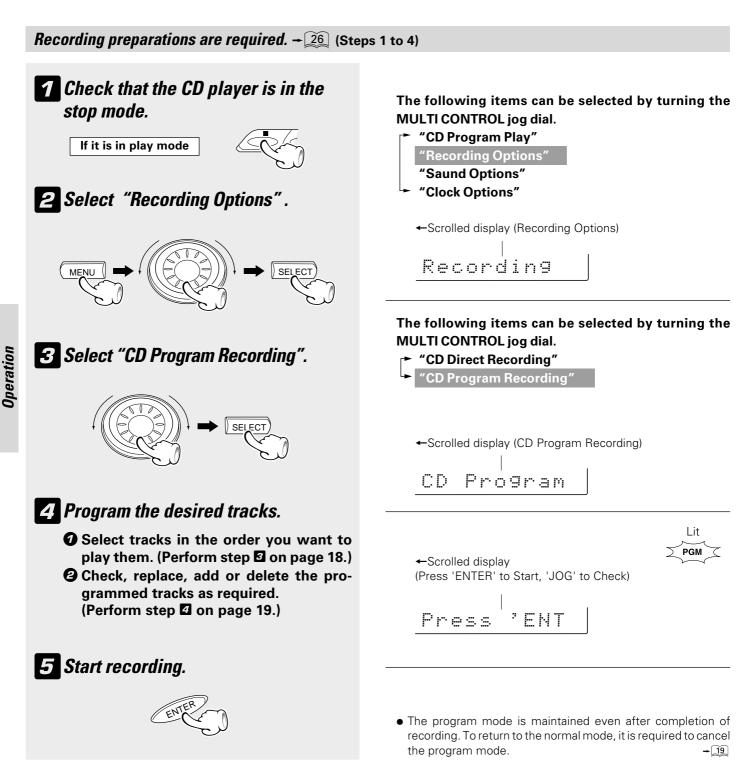
### **Recording of an entire CD** (CD DIRECT RECORDING)

Perform the following operation while the CD player is in stop mode to start recording at the same time as the start of playback.



### Recording the programmed titles (CD PROGRAM RECORDING)

Program the desired tracks from up to 3 CD discs in the desired order and record the programmed playback onto tape.

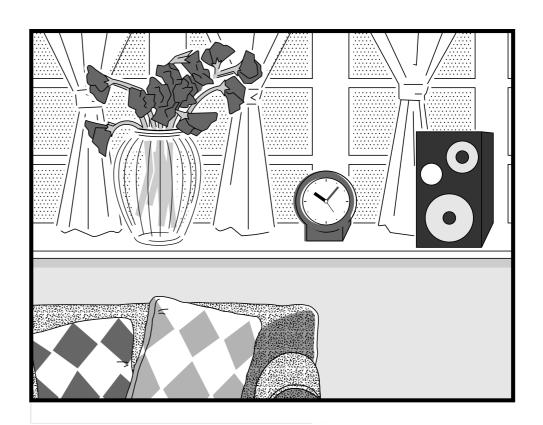


### To end recording in the middle



• Both the cassette deck and CD player stop.

33





Adjust the clock before setting the timer.

#### Sleep timer (SLEEP)

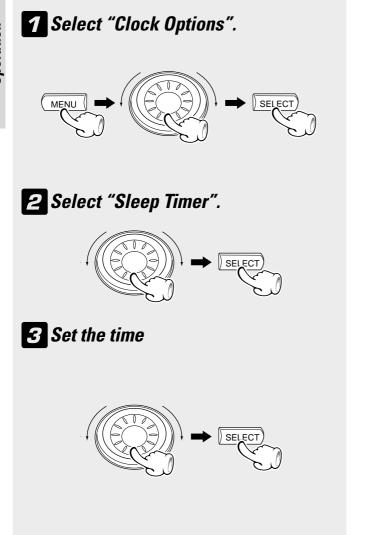
The power is turned OFF automatically after the specified period has elapsed. **Timer programming Timer playback :** Plays (or receives) the selected source in the set time range.

**Timer recording:** Records the selected source in the set time range.

### Adjust the clock before setting the timer.

### Sleep timer (SLEEP)

Set the number of minutes after which the power is to be turned OFF.



The following items can be selected by turning the MULTI CONTROL jog dial.

("CD Program Play") ("Recording Options") ("Tape Dubbing") "Sound Options" "Clock Options"

Scrolled display (Clock Options)

Clock Opti

The following items can be selected by turning the **MULTI CONTROL** jog dial.

"Sleep Timer" "Adjust Time" "Timer"

Blinks

► 20↔30...80↔90↔Return↔Sleep off ↔10 ◄

- The displayed time changes in 10-minute steps. The maximum time that can be set is 90 minutes.
- The power is turned OFF automatically after the set time has elapsed.
- To cancel the sleep timer, turn the power off or select "Sleep off".



XD SERIES (En)

### Timer programming

The Program Timer has Timer Playback and Timer Record functions.

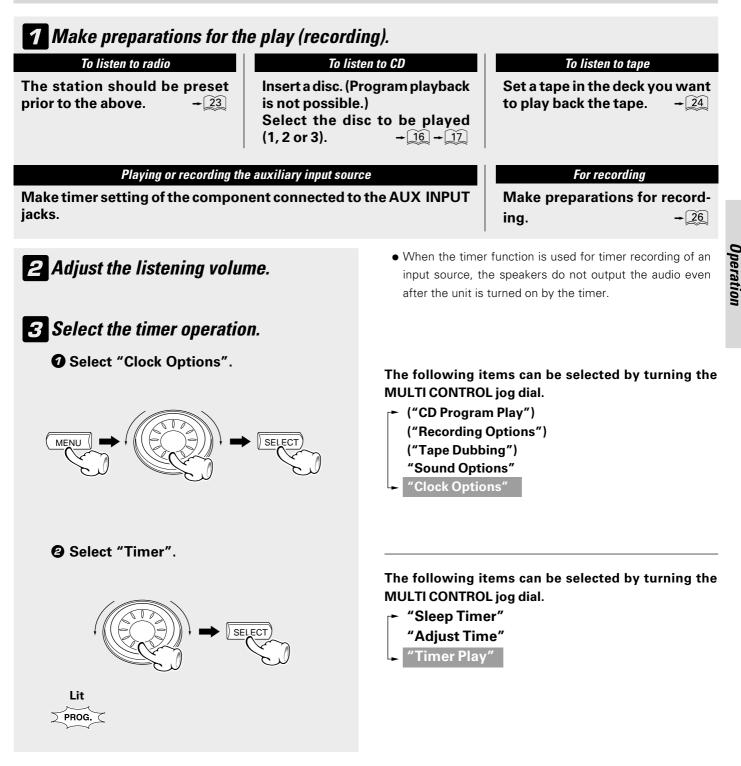
Also, "Everyday" or "One-Time" operation can be selected. Preselect an operating time range and contents and then select whether to operate the program or not as necessity demands.

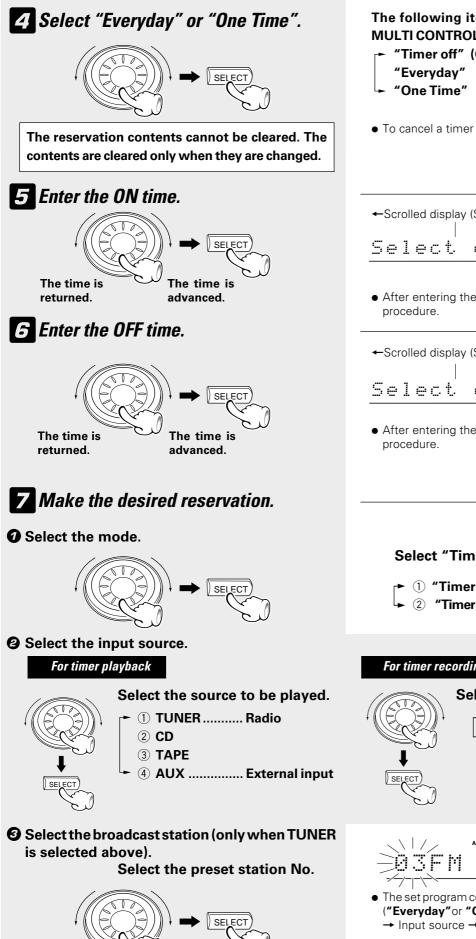
### • If you made a mistake during timer setting:

By turning the Jog dial and displaying "Return," you can return to the previous step and do a procedure over again.

Adjust the clock before setting the timer.

→ 13





### The following items can be selected by turning the MULTI CONTROL jog dial.

- "Timer off" (Canceled)
- To cancel a timer operation, select "Timer off".

Scrolled display (Select on time)



- After entering the "hour", enter the "minute" with the same
- Scrolled display (Select off time)



• After entering the "hour", enter the "minute" with the same

### Select "Timer Play" or "Timer Rec".

- ① **"Timer Play"** ...... Timer play
- ② "Timer Rec" ...... Timer recording

### For timer recording



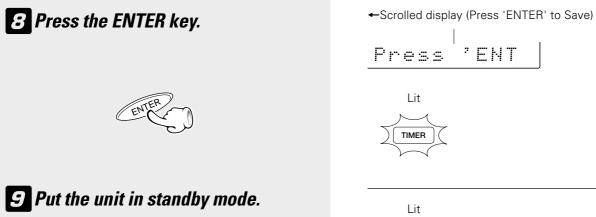
- 1 TUNER ..... Radio
  - ► ② AUX ..... External input



The set program content items are displayed one after another. ("Everyday" or "One Time" → On time → Off time → Mode → Input source → Preset channel)

Continued on next page...

36

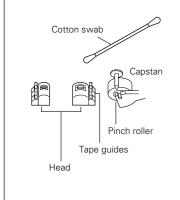


# ON/STANDBY

Lit
$\sum$
STANDBY
$\sum$
X
$\sum$

### Maintenance

### Cleaning the head section



### Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

- 1. Open the cassette holder.
- 2. Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

#### Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

#### Maintenance of the set

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

Ň

### **Caution on condensation**

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the poeration after the condensation has dride up.

Be specially cautious against condensatin in a following circumsatance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

### In regardto contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

### Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

- 1. Turn the power ON.
- 2. Unload the discs
- 3. Close the disc tray.
- 4. Turn power off.

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

XD SERIES (En) What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

### **Operation to reset**

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition. Press the "POWER" key while holding the Stop  $(\blacksquare)$  key of the CD section pressed, to switch off the power, and then switch the power on again after a few seconds.

• Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory.

### **Receiver, speakers**

Symptom	Cause	Remedy	
Sound is not produced.	<ul> <li>The speaker cords are disconnected.</li> <li>The <b>MUTE</b> switch of remote control unit is switched ON.</li> <li>The headphone plug is inserted into the jack.</li> </ul>	<ul> <li>Connect properly referring to "System connection".</li> <li>Switch <b>MUTE</b> OFF.</li> <li>Unplug the headphone plug.</li> </ul>	- 9 - 15 - 15
Sound is not produced from the left or right speakers.	• The speaker cords are disconnected.	<ul> <li>Connect properly referring to "System con- nection".</li> </ul>	<b>→</b> 9
Demonstration starts suddenly.	• The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	<ul> <li>This is not malfunction. Press the DISPLAY/ DEMO key to cancel the demonstration.</li> </ul>	<b>→</b> [4]
The clock display is out of order.	<ul> <li>There was a power failure.</li> <li>The power cord was unplugged from the outlet.</li> </ul>	<ul> <li>Adjust the present time again.</li> <li>Adjust the present time again.</li> </ul>	→ 13 → 13
Timer operation is not possible.	<ul> <li>The present time has not been adjusted or there was a power failure.</li> <li>The timer ON time and OFF time have not been set.</li> <li>The timer execution was not set up.</li> </ul>	<ul> <li>Adjust the present time referring to "Clock adjustment".</li> <li>Set the timer ON time and OFF time.</li> <li>Execute the timer program.</li> </ul>	+ 13 + 35 + 35
Radio stations cannot be received.	<ul> <li>The antennas have not been connected.</li> <li>A proper broadcasting band has not been selected.</li> <li>The frequency of the station to be received is not tuned.</li> </ul>	<ul> <li>Connect antennas.</li> <li>Select a band.</li> <li>Tune to the frequency of the desired station.</li> </ul>	→ 8 → 22 → 22
Noise interferes.	<ul> <li>Car ignition noise.</li> <li>Influence of an electric appliance.</li> <li>A TV set is installed near the system.</li> </ul>	<ul> <li>Install the outdoor antenna in an apart position from the road.</li> <li>Switch the suspected electric appliance OFF.</li> <li>Install the TV or the system at an increased distance between them.</li> </ul>	-8
A station has been preset but it cannot be received by pressing the P.CALL key.	<ul> <li>The frequency of the preset station is not tunable.</li> <li>The preset memory has been cleared because the power cord has been unplugged for a long period.</li> </ul>	<ul> <li>Preset stations with tunable frequencies.</li> <li>Preset stations again.</li> </ul>	→ 23 → 23

### Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	<ul> <li>Batteries are exhausted.</li> <li>The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between.</li> <li>There is no tape or CD set in the component to be played.</li> </ul>	<ul> <li>Replace with new batteries.</li> <li>Operate the unit inside the remote controllable range.</li> <li>Set a tape or CD in the component to be played.</li> <li>24</li> </ul>

### Cassette deck

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key or no operation occurs even when an operation key is pressed.	<ul> <li>The head is dirty.</li> <li>The tape is wound too tight due to irregular winding.</li> <li>A nonrecorded tape is played.</li> </ul>	<ul> <li>Clean the head referring to "Maintenance". → 38</li> <li>Try another tape. → 24</li> <li>Play a recorded tape.</li> </ul>
No operation occurs even when an opera- tion key is pressed.	<ul> <li>The cassette holder is not closed completely.</li> <li>A tape is not inserted in the unit.</li> <li>The tape is wound too tight due to irregular winding.</li> <li>The tape is fully wound to one of the reels.</li> </ul>	<ul> <li>Close the holder completely. → 24</li> <li>Insert a tape. → 24</li> <li>Try another tape.</li> <li>Reverse the tape insertion orientation.</li> </ul>
Sound is harsh or high frequencies are not reproduced.	<ul><li>The head is dirty.</li><li>The tape is stretched or shrunk.</li></ul>	<ul> <li>● Clean the head referring to "Maintenance". → 38</li> <li>● Try another tape.</li> </ul>
Noise is noticeable.	<ul> <li>The tape head is magnetized.</li> <li>External noise is induced.</li> <li>A tape recorded with Dolby NR ON is being played on this unit.</li> </ul>	<ul> <li>Demagnetize the head referring to "Maintenance".</li> <li>Install the system at a distance from other electric appliances and TV.</li> <li>This unit can not play tapes recorded with Dolby NR ON with the correct sound quality</li> </ul>
Sound vibrates.	<ul> <li>The capstans or pinch rollers are dirty.</li> <li>The tape is wound irregularly.</li> </ul>	<ul> <li>Clean the head referring to "Maintenance". → 38</li> <li>Wind the tape again by fast forwarding, rewinding or playing from an end to the other. → 25</li> </ul>
Recording cannot be started by pressing the record key.	<ul> <li>The recording protect tab of the cassette has been broken.</li> <li>The cassette holder is not closed completely.</li> <li>The tape is fully wound to one of the reels.</li> </ul>	<ul> <li>Use a cassette with an unbroken recording protect tab or block the hole.</li> <li>Close the holder completely.</li> <li>Reverse the tape insertion orientation.</li> <li>24</li> </ul>



1. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not a malfunction.

2. Do not use longer tape than 110 minutes tapes, for the tape is too thin and gets easily tangled.

### **CD** player

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	<ul> <li>The disc is placed upside down.</li> <li>The disc position is displaced.</li> <li>The disc is extremely dirty.</li> <li>The disc is scratched.</li> <li>Dew is condensed on the optics lens.</li> </ul>	<ul> <li>Place the disc properly, with the label side facing upward.</li> <li>Place the disc properly.</li> <li>Clean the disc referring to "Disc handling precautions".</li> <li>Try another disc.</li> <li>Refer to "Caution on condensation" and remove the condensation by evaporation.</li> <li>38</li> </ul>
Sound is not produced.	<ul> <li>The disc has not been placed.</li> <li>The player is not put to the play mode.</li> <li>The disc is extremely dirty.</li> <li>The disc is scratched.</li> </ul>	<ul> <li>Place a disc in the CD player.</li> <li>Press the play key.</li> <li>Clean the disc referring to "Disc handling precautions".</li> <li>Try another disc.</li> <li>→ 16</li> <li>→ 16</li> <li>→ 16</li> <li>→ 16</li> </ul>
Sound skips.	<ul> <li>The disc is dirty.</li> <li>The disc is scratched.</li> <li>The player is subject to vibration.</li> </ul>	<ul> <li>Clean the disc referring to "Disc handling precautions". → 7</li> <li>Try another disc.</li> <li>Install the unit in a place not subject to vibrations.</li> </ul>

### General

Symptom	Cause	Remedy
No operation occurs when an operation key is pressed.	<ul> <li>The MULTI CONTROL setting mode is activated.</li> </ul>	● Press the MENU key. → 10

### WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPY-RIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT

### 42 Specifications

### Main unit

[ Amplifier section ] <u>(XD-A31/XD-302)</u> Rated power output (U.S.A. and Canada)
30 watts per channel minimum RMS, both channels driven, at 6 $\Omega$ from 40 Hz to 14 kHz with no more than 0.9 % total harmonic distortion.
Effective output power during STEREO operation
U.S.A. and Canada 1 kHz, 10 % T.H.D., 6 $\Omega$
(XD-352/XD-372S)
Effective output power during STEREO operation 1 kHz, 10 % T.H.D., 6 $\Omega$
Rated output power during STEREO operation
Europe, U.K. and Russia (DIN) 1 kHz, 0.7 % T.H.D., 6 $\Omega$
Other countries 1 kHz, 1.0 % T.H.D., 6 $\Omega$
Input sensitivity / inpedance AUX
Output level / impedance (XD-A31/XD-302) SUPER WOOFER PREOUT 1.8 V / 0.6 kΩ
[Tuner section]
FM tuner section
Tuning frequency range 87.5 MHz ~ 108 MHz
(For Russia) 108 MHz
65.0 MHz ~ 74.0 MHz
AM (MW) Tuner section Tuning frequency range
Europe, U.K. and Russia 531 kHz ~ 1,602 kHz
U.S.A. and Canada 530 kHz ~ 1,700 kHz
Other countries
9 kHz step
10 kHz step 530 kHz ~ 1,610 kHz
LW Tuner section (For U. K.)
Tuning frequency range 153 kHz ~ 279 kHz
SW Tuner section (XD-372S)

Tuning frequency range ...... 5.95 MHz ~ 17.9 MHz

XD SE	ERIES	(En)
-------	-------	------

[ Cassette deck section ]	
Track	4-track, 2-channel stereo
Recording system	AC bias system
• •	(Frequency: 105 kHz)
Heads	
B deck Playback / recording head	
Erasing head	
A deck Playback head	
Motor	
[ CD player section ]	
Laser	Semiconductor laser
Wow & Flutter Less	than unmeasurable Limit
[ General ]	
Power consumption	150 W
Dimensions	W: 280 mm (11″)
	H: 330 mm (13″)
	D: 405 mm (15-15/16″)
Weight (net) (XD-A3	31/XD-302) 6.9kg (15.2 lb)
	2/XD-372S) 7.2kg (15.9 lb)

### Speakers (LS-N302/LS-N352)

Enclosure	Bass-reflex type
Speaker configuration	
Woofer	130 mm, cone type
Tweeter	50 mm, cone type
Impedance	<b>6</b> Ω
Maximum input level	43 W
Dimensions	W: 220 mm (8-11/16")
	H: 330 mm (13″)
	D: 295 mm (11-5/8")
Weight (net)	3.2 kg (7.1 lb) (1 piece)



43



# KENWOOD

### For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model\_

\_Serial Number