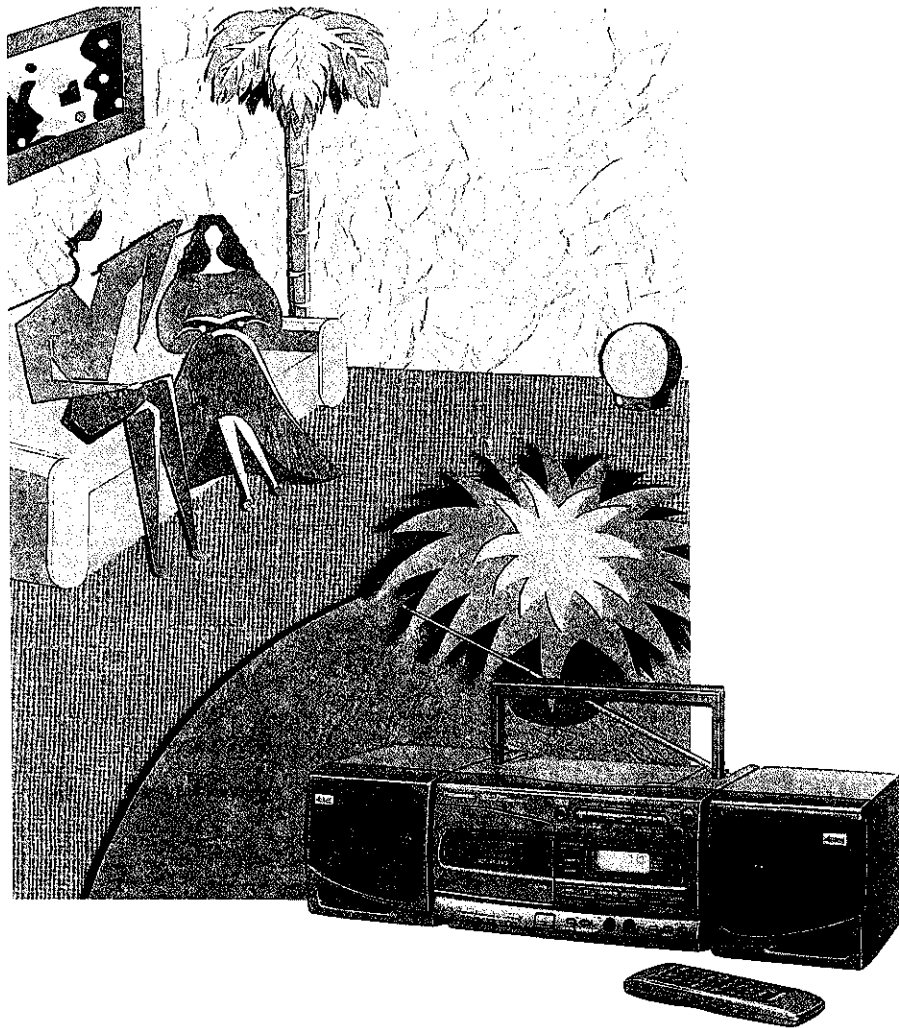


Panasonic

Portable Stereo Component System RX-E300

Operating Instructions



Note:

The "EB" indication shown on the packing case indicates United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely.

EB GN

COMPACT
disc
DIGITAL AUDIO

RQT2497-B

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these operating instructions carefully.

WARNING:

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

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORM-
ANCE OF PROCEDURES OTHER THAN THOSE SPECI-
FIED HEREIN MAY RESULT IN HAZARDOUS RADIATION
EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOUR-
SELF. REFER SERVICING TO QUALIFIED PERSONNEL.



(Top of product)

DANGER-Invisible laser
radiation when open
and interlock defeated.
AVOID DIRECT EX-
POSURE TO BEAM.

(Inside of product)

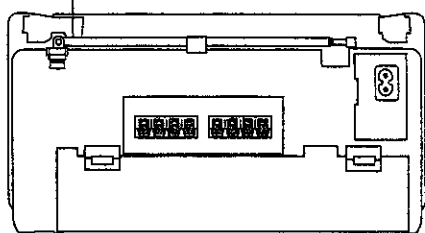


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Caution for AC mains lead

(For United Kingdom)



("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

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

Blue: Neutral

Brown: Live

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

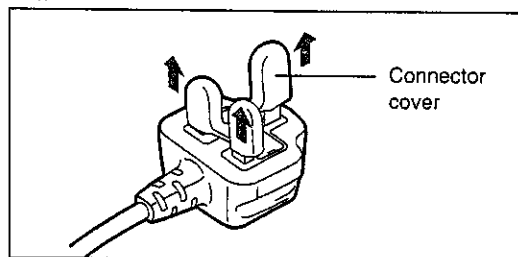
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol \perp .

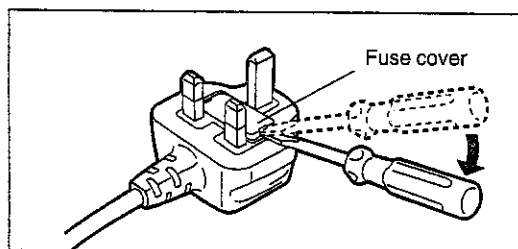
Before use

Remove the connector cover as follows.

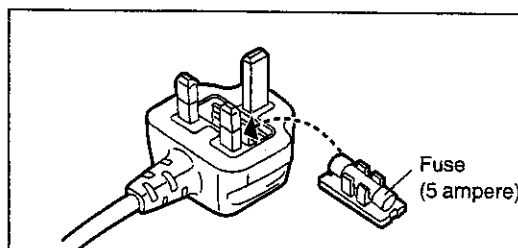


How to replace the fuse

1. Remove the fuse cover with a screwdriver.

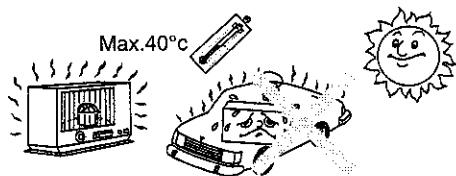


2. Replace the fuse and attach the fuse cover.



Precautions

- If the set is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.
- Avoid using or placing this unit near sources of heat. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.
- Avoid cuts, scratches, or poor connections in the AC mains lead, as they may result in possible fire or electric shock hazard. Also, excessive bending, pulling or splicing of the cord should be avoided.
- Do not unplug the AC mains lead by pulling on the cord. To do so may cause premature failure or shock hazard.
- Do not operate the set on AC power in a bathroom, as a potential shock hazard may result.
- When not in use, disconnect the AC mains lead from the household mains outlet.
- Be careful that curtains and similar materials do not obstruct the ventilation holes.

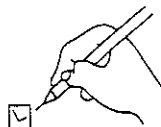


In these operating instructions, "unit off" is defined as the following mode.

"Standby" when AC power is used.

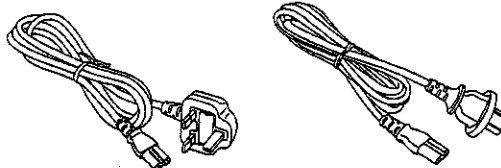
"Battery power off" when batteries are used.

Supplied Accessories

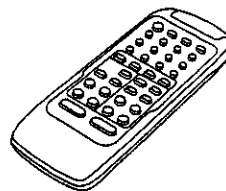


Please check and identify the supplied accessories.

- AC mains lead 1 pc.
(For U.K.: RJA0038-U) (For Australia, New Zealand: RJA0035-K)



- Remote control transmitter 1 pc.
(EUR642195)



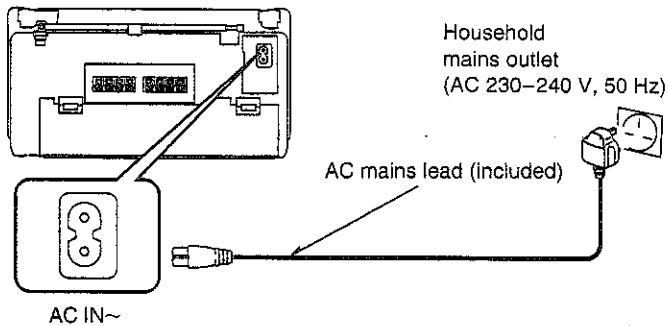
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE THE FOLLOWING CONNECTION.

Power Sources

This system can be operated either on the household AC power or the dry cell battery power.

To operate on AC power

Connect the included AC mains lead to the AC IN~ socket of this unit and your household mains outlet.



Note

AC mains lead and household mains outlet are different according to the area.

To operate on dry cell battery power

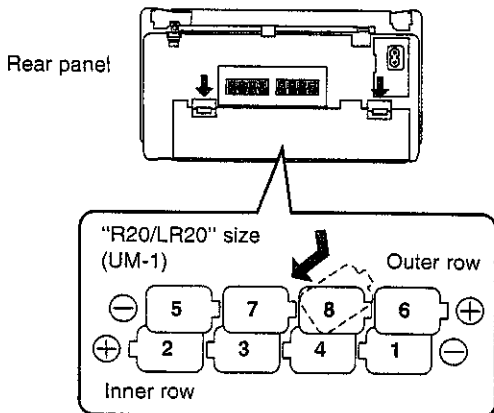
When using the memory back-up batteries (see right), insert them first.

Please read "Use of batteries" on page 7.

Battery installation

Unplug the AC mains lead from the household mains outlet and the AC IN~ socket of the unit.

Open the compartment for the batteries and insert eight "R20/LR20" size (UM-1, not included) batteries into the battery compartment. Make sure that the batteries are installed in the designated numerical order and that the proper polarities are maintained.



- Batteries installed with incorrect polarities may leak and damage this unit.
- Do not mix batteries (old and new) or types (manganese and alkaline, etc.).
- If the unit is not used for a long period of time or is used only from an AC power source, remove the batteries to prevent potential damage from possible battery leakage.

Battery removal

Pull out the ⊖ side of battery No. 6.

Battery life

When the batteries are weak:

- The display of the front panel will start to flash.
- The unit will automatically turn itself off, then "U01" will be appeared on the display.

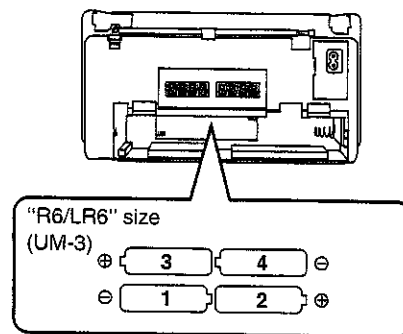
In those cases, replace all batteries with new ones.

Memory back-up batteries

In the event of a power failure, or if the AC mains lead is disconnected from the household mains outlet (during AC operation), or should the batteries fail, the memory back-up batteries will preserve the preset memory and the timer functions of this unit. Please read "Use of batteries" on page 7.

Battery installation

Insert four "R6/LR6" size (UM-3, not included) batteries into the battery compartment, making sure that the batteries are installed in the designated numerical order that the proper polarities are maintained.



Battery removal

Press the ⊖ side of the battery No. 2.

Battery life

The life of the memory back-up batteries is about one year.

- The life of the memory back-up batteries can be prolonged by keeping the AC mains lead plugged in the household mains outlet at all times.
- When disconnecting the AC mains lead, turn the unit off first using the POWER button.
- The life of the memory back-up batteries is reduced if the AC mains lead is disconnected from a household mains outlet with the power still supplied.
- While exchanging the memory back-up batteries, be sure to connect the AC mains lead both to the unit and to the household mains outlet.

Connecting the Speaker System

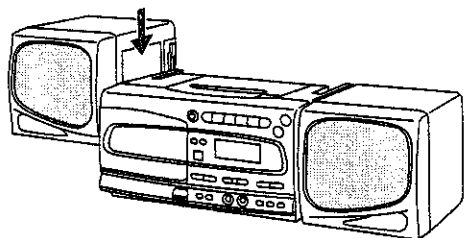
This unit can be used as a one-piece portable stereo system or a three-piece component system, by attaching or detaching the speaker system.

Before attaching or detaching the speakers, be sure to disconnect the speaker cables from the speaker terminals.

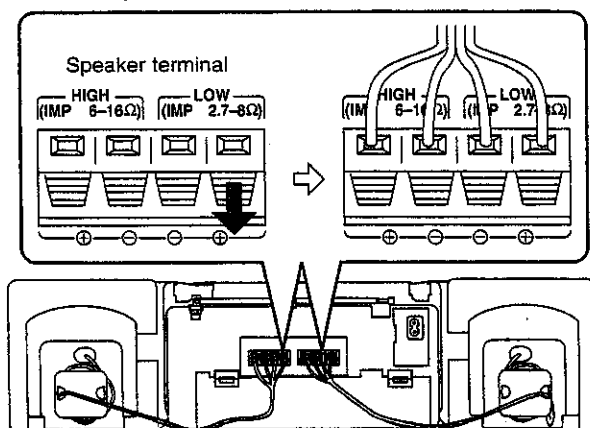
Be sure to press POWER to turn the unit off before connecting or disconnecting the speaker cables.

Attaching the speakers

1. Align the speaker with the main unit as shown in the figure, interlock the grooves and press down.



2. Connect the colored speaker cable to the same colored speaker terminals.

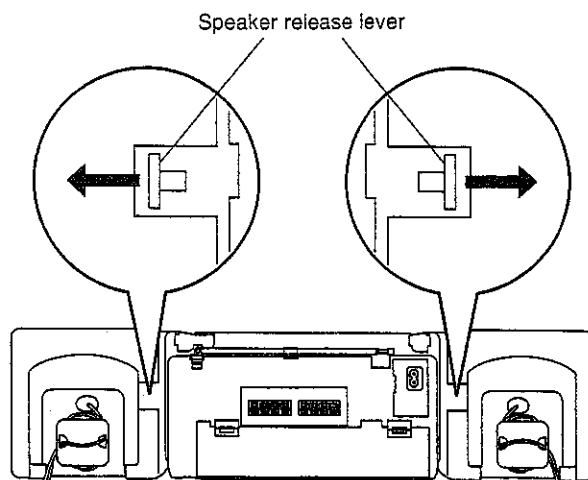


3. When using the unit with the speakers attached, wind the speaker cables as shown.

Note

Since a strong magnet is used for the speaker, keep magnetized commuter passes, tickets or personal credit cards, recorded tapes, watches, etc. away from the speakers. The magnet in the speakers may damage them.

Detaching the speakers

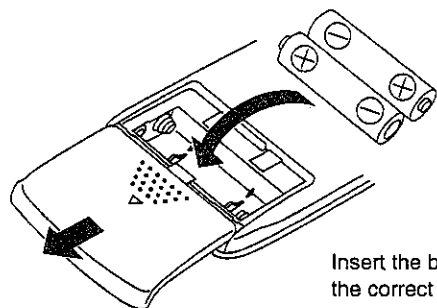


1. Unlock the speaker release levers by pulling them in the direction shown above, and slide up each speaker.
2. Connect the speaker cables to the speaker terminals.

Concerning the Remote Control

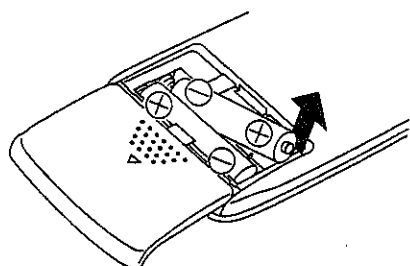
Battery installation

Insert two "R03" size (UM-4, not included) batteries as shown below.



Insert the batteries in the correct polarities (+, -).

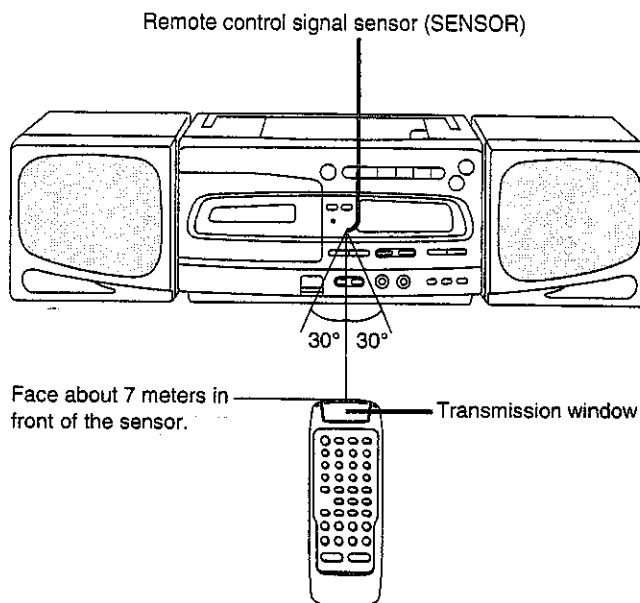
To remove the batteries, pull out the + side.



Use of batteries

- Do not mix old and new batteries, or batteries of different types (manganese with alkaline, etc.).
- Always remove old, weak or worn-out batteries promptly and dispose of them properly.
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circuited.
- If the unit is not to be used for a long period of time, remove the batteries and store them in a cool, dark place.
- If a battery leaks, remove all batteries and dispose of them properly.
- Thoroughly clean the battery compartment before inserting new batteries.
- If the electrolyte comes into contact with skin or clothes, flush with water immediately.
- Keep batteries out of reach of children.
- Do not use rechargeable (nickel-cadmium) type batteries.
- Do not attempt to recharge alkaline or manganese batteries.

Remote control unit's operation range



How to use the remote control unit properly

- Do not place obstacles between the remote control signal sensor and remote control unit.
- Do not expose the remote control signal sensor to direct sunlight or to the bright light of an inverter fluorescent light.
- Take care by keeping the remote control signal sensor and the transmission window free from dust.

To prevent malfunctioning of the remote control unit:

- Do not disassemble or reconstruct the unit.
- Do not place heavy objects on top of it.
- Do not leave it where it will be exposed to direct sunlight.
- Do not spill beverages or other liquids over it.

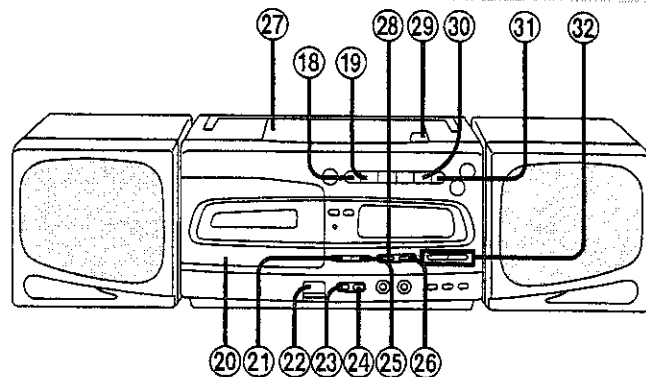
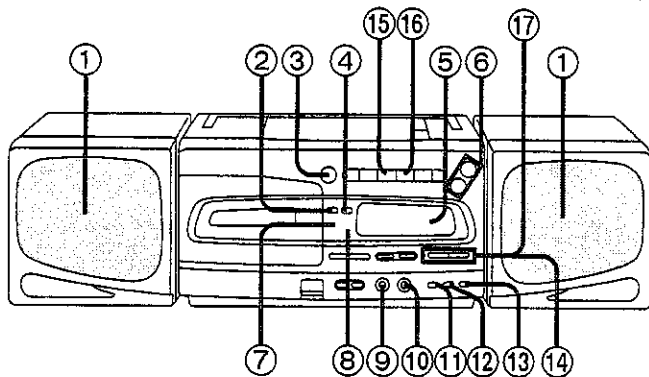
Battery life

The battery life is about one year.

Although the battery life varies depending on how often the device is used, the batteries should be replaced about once every year on the average.

The batteries should be replaced if commands from the remote control transmitter do not operate the unit even when transmitter is held close to the front panel.

Location of Controls



Basic controls

| No. | Name | Ref. page |
|-----|--|-----------|
| ① | Speakers | 6 |
| ② | Sleep timer button (SLEEP) | 28 |
| ③ | Power "STDBY \downarrow (AC)/ON" switch [POWER, STDBY \downarrow (AC)/ON] | 11 |
| | Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. | |
| ④ | Preset equalizer button (PRESET EQ) | 23 |
| ⑤ | Display panel | 11 |
| ⑥ | Volume control buttons (VOLUME) | 11 |
| ⑦ | Standby indicator (STANDBY \downarrow) | 11 |
| | When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on. | |
| ⑧ | Remote control signal sensor (SENSOR) | 7 |
| ⑨ | Mixing microphone jack (MIX MIC) | 29 |
| ⑩ | Headphones jack (PHONES) | 29 |
| ⑪ | Timer set button (TIMER) | 25, 27 |
| ⑫ | Time adjust/memory button (ADJUST, MEMORY) | 9 |
| ⑬ | Time check button (TIME CHECK) | 9 |
| ⑭ | Time set buttons ($\square \lll / \lll, \ggg / \ggg$, - TUNING/TIME SET +) | 9 |

Tuner controls

| No. | Name | Ref. page |
|-----|---|-----------|
| ⑮ | Band select button (BAND) | 10, 12 |
| ⑯ | Preset tuning button (PRESET TUNING) | 12, 13 |
| ⑰ | Tuning buttons ($\square \lll / \lll, \ggg / \ggg$, - TUNING/TIME SET +) | 10 |

Deck controls

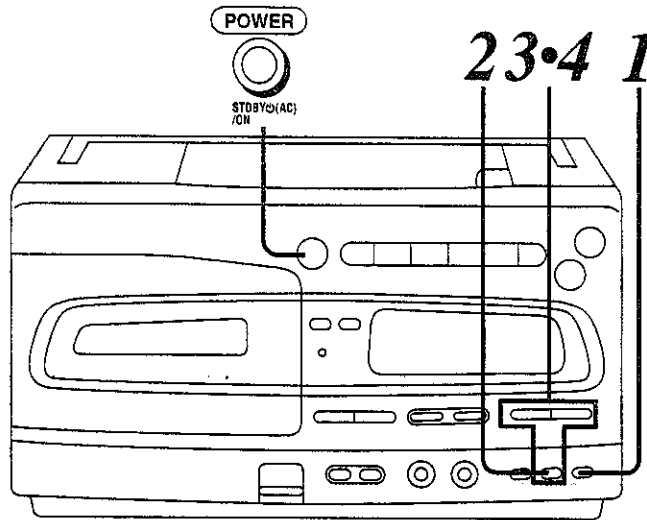
| No. | Name | Ref. page |
|-----|--|-----------|
| ⑱ | Stop button (\square STOP) | 19 |
| ⑲ | Play/direction button ($\triangleleft \triangleright$ PLAY/DIR) | 12, 19 |
| ⑳ | Tape lid | 19 |
| ㉑ | Rewind button (REW) | 19 |
| ㉒ | Tape lid open button (\blacktriangle EJECT) | 19 |
| ㉓ | Dolby noise reduction button (DOLBY NR) | 19 |
| ㉔ | Counter reset button (COUNTER RESET) | 19 |
| ㉕ | Fast forward button (FF) | 19 |
| ㉖ | Recording standby button (REC PAUSE) | 21, 22 |

CD controls


| No. | Name | Ref. page |
|-----|--|-----------|
| ㉗ | CD lid | 15 |
| ㉘ | Easy CD recording button (EASY CD REC) | 20 |
| ㉙ | CD lid open button (\triangle CD EJECT) | 15 |
| ㉚ | Play/pause button ($\triangleright \square$ PLAY/PAUSE) | 12, 15 |
| ㉛ | Stop/clear button (\square STOP/CLEAR) | 15 |
| ㉜ | Skip/search buttons ($\square \lll / \lll, \ggg / \ggg$, - TUNING/TIME SET +) | 18 |

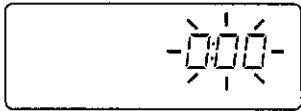
Setting the Clock

The clock has a 24-hour display.



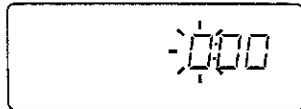
Example: Setting the clock to 16:20;
Press POWER.




1 **TIME CHECK**

Press TIME CHECK to display the present time.
 → Timer time
 ← Original display ← Present time
 (The display changes each time the button is pressed.)

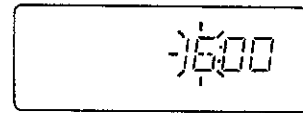


2 **ADJUST**

Press ADJUST.



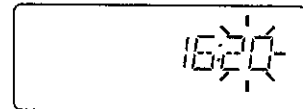
3 
Press  or  to display the hour (16).



ADJUST

Press ADJUST.

4 
Press  or  to display the minute (20).



ADJUST

Press ADJUST.
 (The clock now starts operating, and the display returns to its original status.)

For your reference:

You can set the clock even in the unit off mode (only when using AC power).

Programming Broadcast Stations

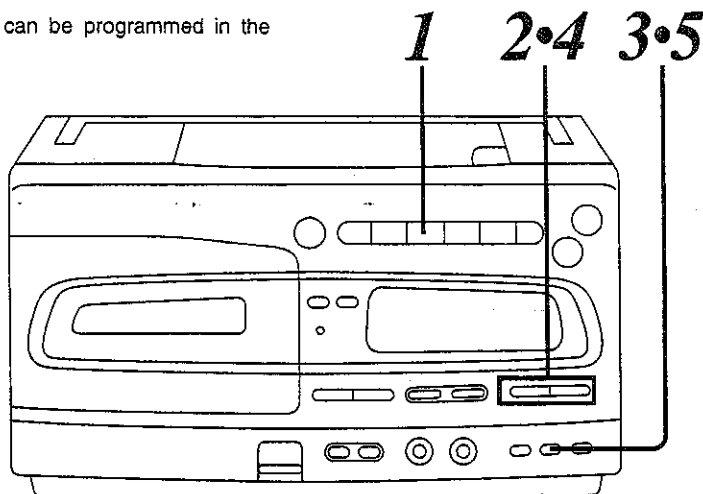
Once broadcast stations have been programmed, they can easily be tuned in at the touch of a button on the unit or on the remote control.

For U.K.:

Up to ten LW, MW and FM stations each can be programmed in the preset channels.

For Australia and New Zealand:

Up to ten FM and AM stations each can be programmed in the preset channels.



Example: Programming FM 88.10 MHz in preset channel 2;

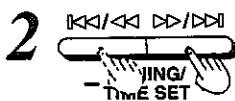


For U.K.:
Press **BAND** to display "FM".
→LW→MW→FM

(The display changes each time the button is pressed.)

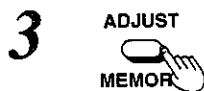
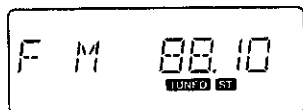
For Australia, New Zealand:
Press **BAND** to display "FM".
→AM→FM

(The display changes each time the button is pressed.)

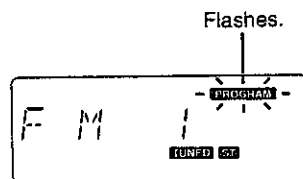


Press **JING/Time SET** to select the station.

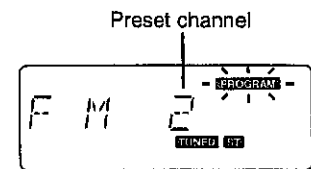
FM stations can be selected automatically (see right).



Press **ADJUST**.



Press **JING/Time SET** to display the preset channel in which the station is to be programmed.



While **PROGRAM** is flashing, press **ADJUST**.

6 Repeat steps 2 to 5 to program the other stations.

Selecting FM stations automatically:

Keep pressing **JING/Time SET** until the frequency display starts to change. A station with good reception is automatically selected and the selection process then stops.

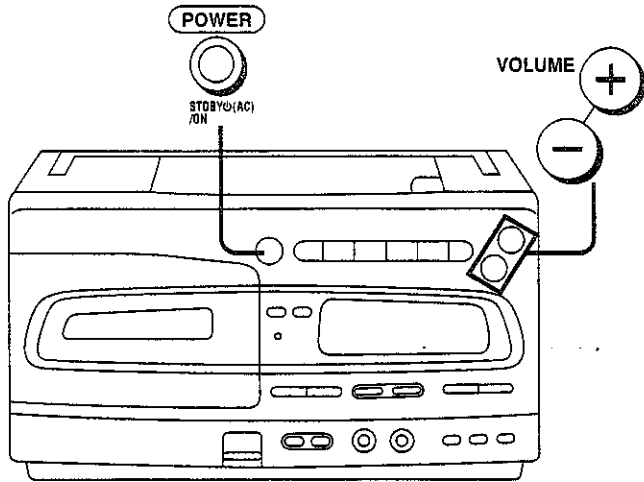
To stop the selection at any time:

Press **JING/Time SET** again. The selection may stop without tuning into any station if there is interference in the vicinity. In such a case, tap **JING/Time SET** until a station's frequency is picked up.

Programming AM (LW/MW) stations:

1. Press **BAND** in step 1 to display AM (LW/MW).
2. Perform steps 2 to 6.

Common Operations



Turning the unit ON/OFF

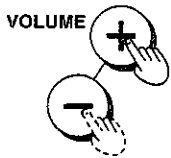


To turn the unit ON:
Press POWER.
 The backlight of the display comes on.



To turn the unit OFF:
Press POWER.
 When using an AC power, the unit is turned to standby mode. (STANDBY indicator lights.)

Adjusting the volume



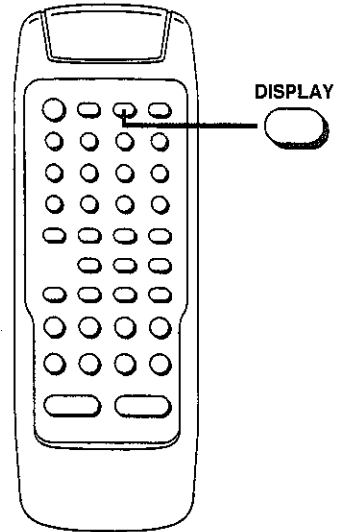
Press VOLUME – or VOLUME + to adjust the volume to the desired level.
 +: Press to turn up the volume.
 -: Press to turn down the volume.

The volume level can be adjusted from “--- dB” (lowest) to “0 dB” (highest).

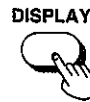
For your reference:

The volume can be adjusted even in the unit off mode (only when using AC power).

Displaying the present time or the tape counter



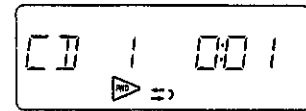
These operations come in handy to check the present time during play or to check the tape counter during recording. (Available only from the remote control)



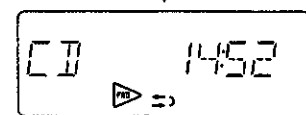
Press DISPLAY.
 Each time the button is pressed, the display will change as follows;

Example: When DISPLAY is pressed during CD play;

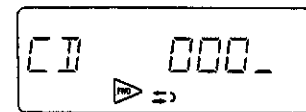
1. The play status is indicated.



2. The present time is indicated.



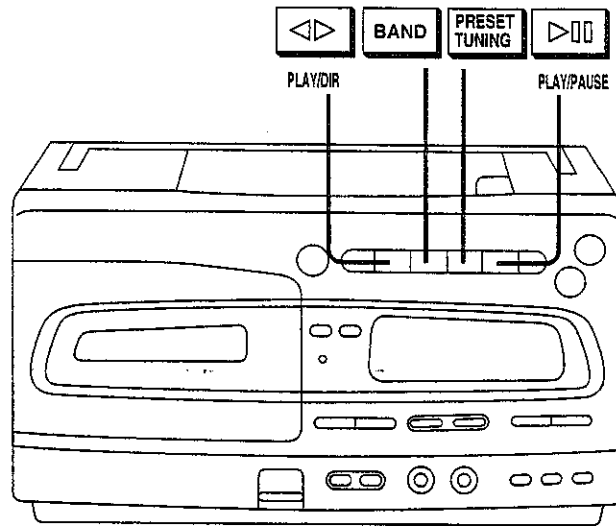
3. Tape counter display is indicated.



“---” appears for the tape counter display when no tape has been loaded.

Easy Listening

(Only when a household mains outlet is used for the unit)



When a CD or tape is inserted, you can start play directly by pressing a single button (even in the unit off mode).

Listening to CD:



Press  **PLAY/PAUSE.**

Listening to tapes:



Press  **PLAY/DIR.**

Listening to radio broadcasts:



or



Press **BAND** or **PRESET TUNING.**

For your reference:

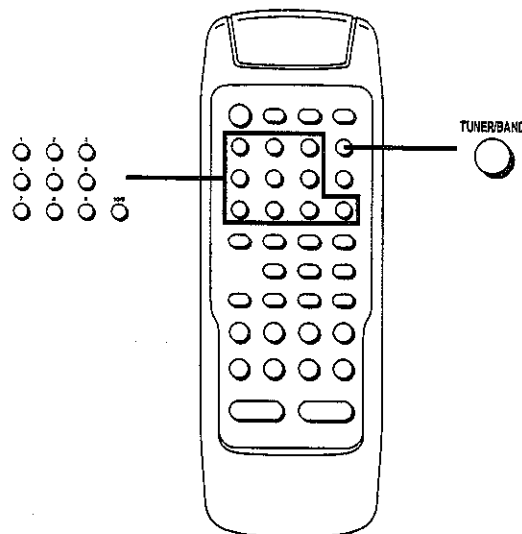
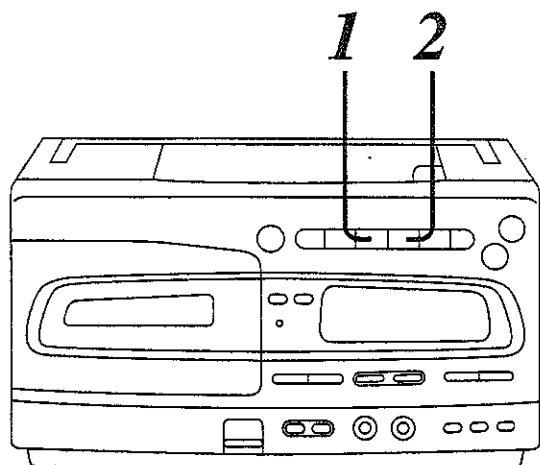
- You can play directly by pressing the same button on the remote control transmitter.
- Even when the unit is being powered by batteries, you can start play directly by pressing the single button (mentioned above) after turning on the unit.

Listening to Radio Broadcasts

Preset tuning

Make sure you have completed the procedure for "Programming Broadcast Stations" (See page 10) beforehand.

To listen to a station without programming it first, refer to "Listening to broadcast stations which have not been programmed" (See page 14).



Using the main unit

1



For U.K.:
Press BAND to display "LW", "MW" or "FM".

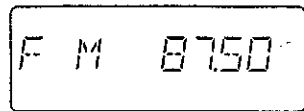
→LW→MW→FM

(The display changes each time the button is pressed.)

For Australia, New Zealand:
Press BAND to display "FM" or "AM".

→AM→FM

(The display changes each time the button is pressed.)

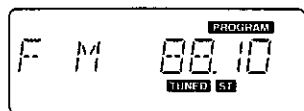
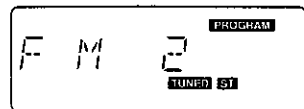


2



Press PRESET TUNING to select the preset channel.

The station is changed each time the button is pressed.

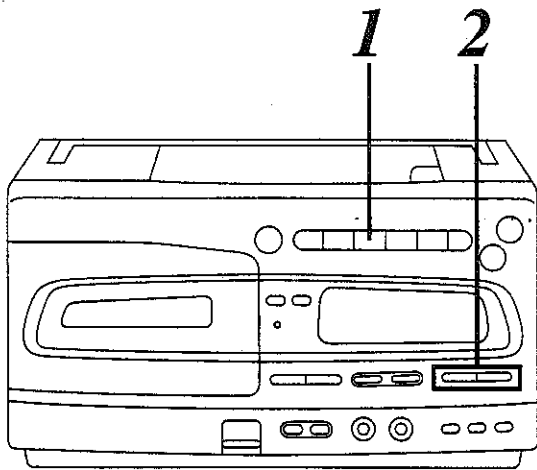


Using the remote control

1. Press TUNER/BAND to display "FM" or "AM" (LW/MW).
2. Press the number button (1 to 10/0) to select the programmed station.

Listening to Radio Broadcasts

Listening to broadcast stations which have not been programmed (Manual tuning)

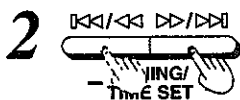
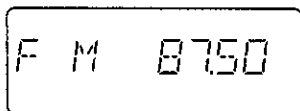


For U.K.:
Press BAND to display "LW", "MW" or "FM".
 →LW→MW→FM

(The display changes each time the button is pressed.)

For Australia, New Zealand:
Press BAND to display "FM" or "AM".
 →AM→FM

(The display changes each time the button is pressed.)



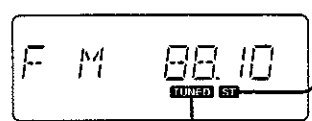
Press <<</>>> or <<</>>> to tune in the broadcast station.

<<</>>> : Press this to increase the broadcast frequency.

<<</>>> : Press this to decrease the broadcast frequency.

FM stations can be selected automatically (see below).

Lights when an FM stereo program is picked up.



Lights when a station is tuned in properly.

Frequency display steps:

The frequency display changes in the following steps:
 (For U.K.)

FM: 50 kHz steps

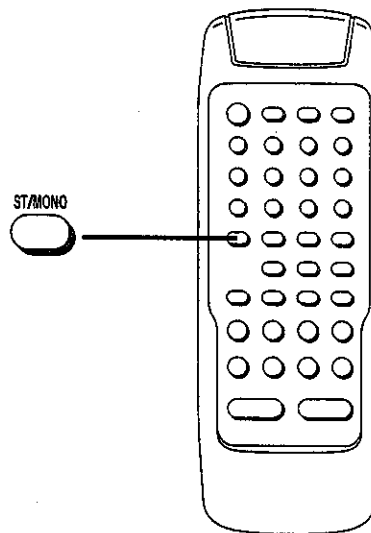
LW, MW: 9 kHz steps

(For Australia, New Zealand)

FM: 100 kHz steps

AM: 9 kHz steps

For better reception

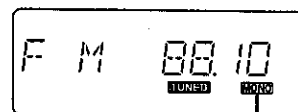


When there is too much interference during an FM stereo broadcast

(Available only from the remote control)
 Reduce the interference by setting the sound to monaural.



Press ST/MONO.



Lights.

To return to stereo reception, repeat the same procedure and turn off the **MONO** display.

Note

The **ST** display will not light in the monaural mode even when a stereo broadcast is received.

Adjusting the antenna for better reception

FM

Pull out the telescopic antenna and adjust its length and angle for optimum reception.

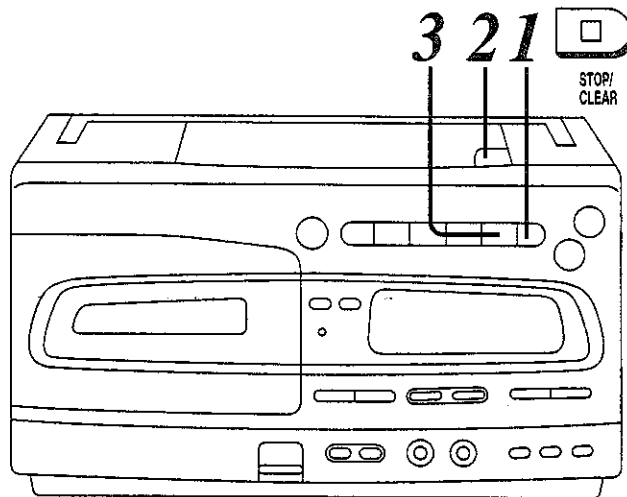
AM (LW/MW)



Turn the unit in the direction which gives the best results.



Selecting FM stations automatically:

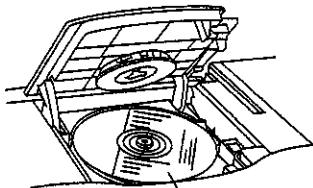
Keep the button depressed until the frequency display starts to change. A station with good reception is automatically selected and the selection process then stops.

Listening to CD

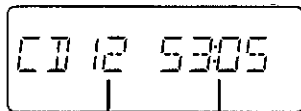


1  Press  **STOP/CLEAR.**
"NO DISC" appears on the display.

2  **CD EJECT** Press  **CD EJECT** to open the CD lid, insert the CD and close the lid.

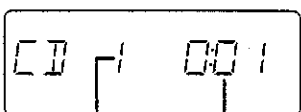


Insert a CD with its label facing up.





Total number of tracks
Total play time

3  Press  **PLAY/PAUSE** to start play.
Play now starts in sequence from track 1 to the last track, after which it will stop automatically.



Track number in play
Elapsed play time of track in play

 **To stop play:**
Press  **STOP/CLEAR.**

To stop play temporarily:
Press  **PLAY/PAUSE.**
To resume play, press  **PLAY/PAUSE** again.

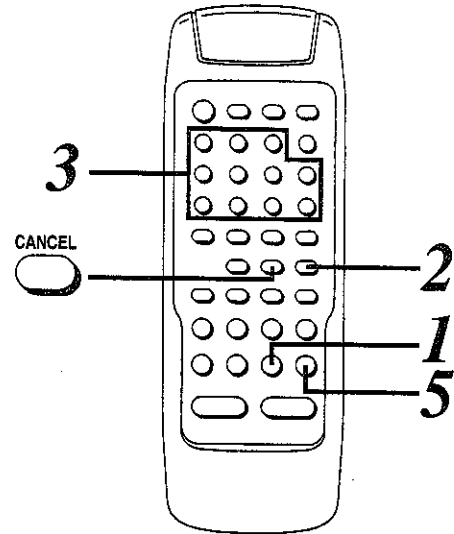
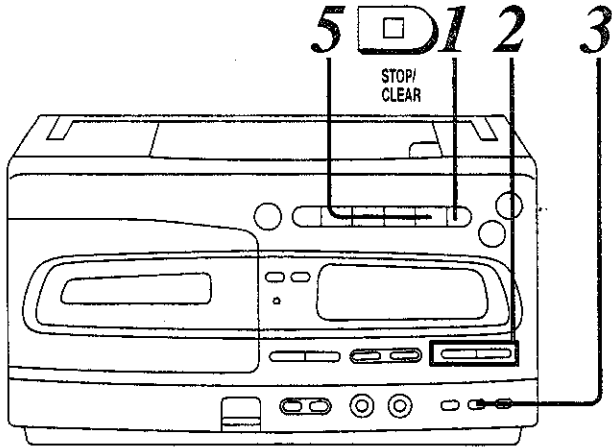
Note

Interference may affect radio or TV reception when CDs are played close to a radio or TV set. If this occurs, place the unit as far away from the set as possible.

Listening to CD




Selecting and listening to your favorite tracks (Program play)

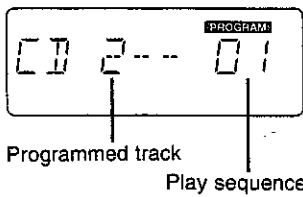
Up to 36 tracks can be programmed.



Using the main unit


Example: Selecting tracks 2, 5 then 7;


- 1**  Press **STOP/CLEAR**.
- 2**  Press **TRACK** or **TRACK** to select the desired tracks.
- 3**  Press **ADJUST**.



Programmed track

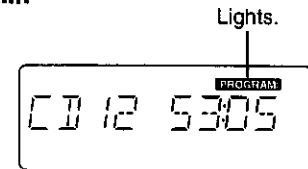
Play sequence



Total play time of programmed track
- 4** Repeat steps 2 and 3.
- 5**  Press **PLAY/PAUSE**.
The programmed tracks are played in the programmed sequence, and play stops automatically.

Using the remote control

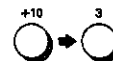
1. Press **PROGRAM**.
2. Press **PROGRAM**.



3. Press one of the number buttons (1 to 10/0, +10) to select the desired track.

To select a track with a number exceeding 10:

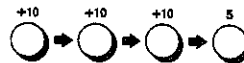
Example: Track 13;



Track 20;



Track 35;



4. Repeat step 3.
5. Press **PLAY/PAUSE** to start play.

When a track has been programmed in error:

(Available only from the remote control)

Press **CANCEL** in the stop mode.

Each time the button is pressed, the track programmed last is canceled.

To clear program play:

Press **STOP/CLEAR** in the stop mode.

When "FULL" appears on the display:

The number of programmed tracks has exceeded 36. No more tracks can be programmed.

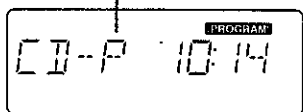
When "--:--" appears on the display:

The total play time of the programmed tracks has exceeded 120 minutes. However, programming and play are still possible.

Memory retention of programmed tracks:

The contents of the memory will be retained even if play is stopped or if the unit is turned off before its completion.

This appears when tracks have been programmed in the memory.



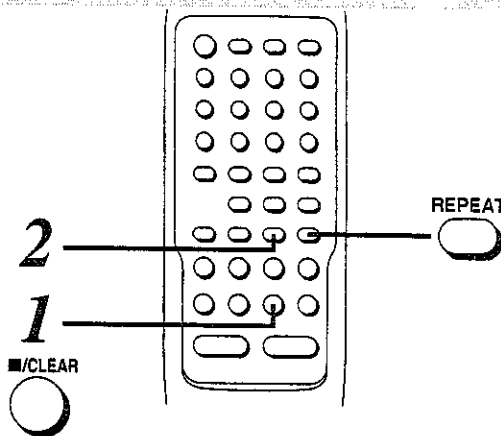
To check what has been programmed:

Press ◀◀/▶▶ or ▶▶/▶▶ while above display appears.

Each time this button is pressed, the number of the track and the play sequence can be checked.

The program is erased in the following circumstances:

- When CD EJECT has been pressed.
- When the AC mains lead is disconnected or the batteries are removed without inserting memory back-up batteries beforehand.

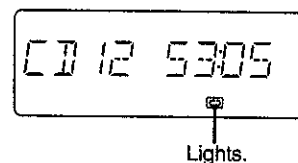


To repeat tracks (Repeat)

(Available only from the remote control)



Before play or during play:
Press REPEAT.



To cancel repeat play:

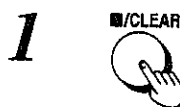
Press REPEAT again to turn indicator off.

For your reference:

- In program play (see page 16), the unit plays the programmed tracks in the programmed sequence repeatedly.
- You can enjoy the same track over and over by programming only one track.
- When program play is canceled, the repeat mode is also deleted.

Playing selections in random order (Random play)

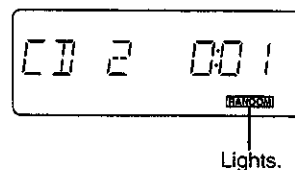
(Available only from the remote control)



Press ■/CLEAR.



Press RANDOM.



All the tracks are played at random, and play automatically stops.

To cancel random play:

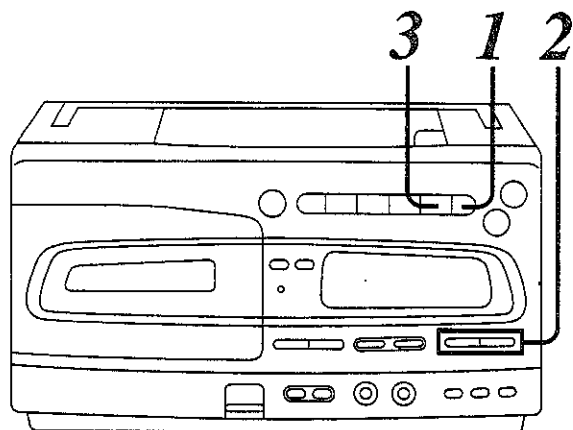
Press ■/CLEAR to turn indicator off.

Note

Random play with the programmed tracks is not possible.


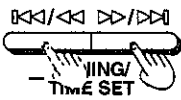


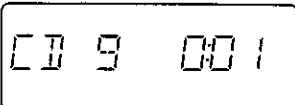
Listening to CD

Starting CD play from a desired track (Direct play)



(Using the main unit)

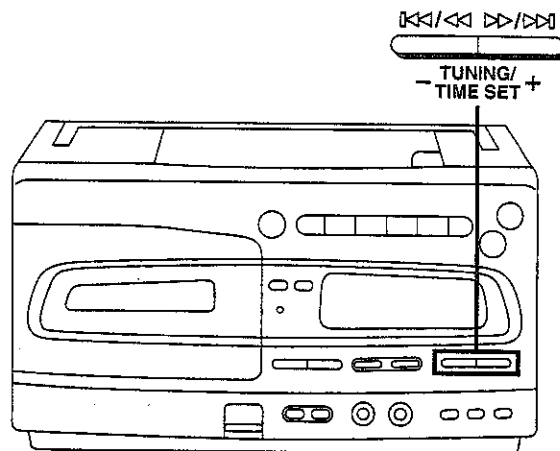
Example: Starting disc play from track 9;

- 1  Press **STOP/CLEAR**.
- 2  Press **◀◀/▶▶** or **▶▶/▶▶** to display desired track number (9).

- 3  Press **▶▶** **PLAY/PAUSE** to start play.


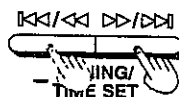
All the tracks starting from the track selected and ending with the last track are played in sequence, and play automatically stops.

(Using the remote control)

1. Press **■/CLEAR**.
2. Press one of the number buttons (1 to 10/0, +10) to select the desired track.
To select a track with a number exceeding 10; see page 16.



To skip tracks



During play:

Press **▶▶/▶▶** to skip ahead to the start of the next track.

Press **◀◀/◀◀** to skip back to the start of the current track.

By repeating this operation, you can skip tracks in the number that corresponds to the number of times you pressed the button.

Note

In random play (see page 17), you cannot skip to the beginning of the track that has been already played.

For your reference:

In program play (see page 16), you can skip forward and backward in the programmed sequence.

To search forward or backward



During play:

Keep pressing **▶▶/▶▶** to advance disc play rapidly.

Keep pressing **◀◀/◀◀** to review disc play rapidly.

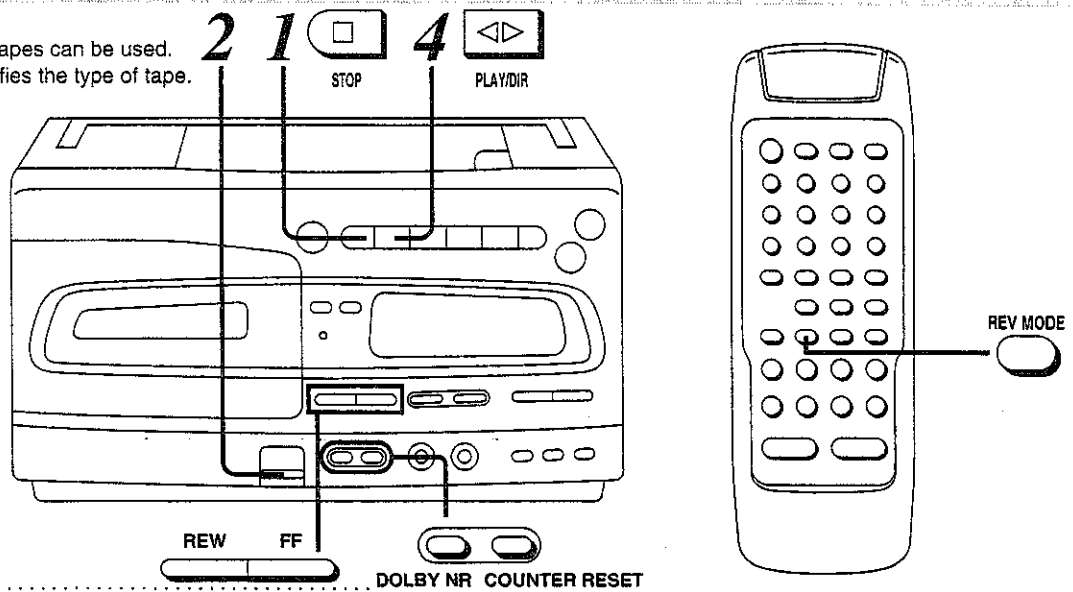
Release the button when the desired position on the disc is reached.

For your reference:

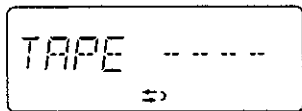
During program play (see page 16) and random play (see page 17), search will only take place within the track in play.

Listening to Tapes

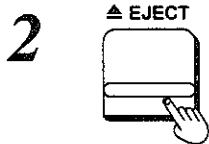
Normal, chrome and metal tapes can be used.
The unit automatically identifies the type of tape.



Press STOP.



To stop play:
Press STOP.



Press EJECT.



To listen to the other side of the tape:
Press PLAY/DIR during playback.



Load the tape and close the lid.

When the lid is closed, the tape travel direction is automatically set to play the side facing you.

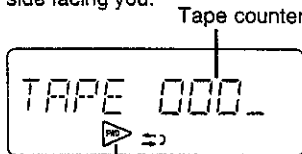


To rewind or fast forward the tape:
Press REW or FF.



To reset the tape counter to "000_":
Press COUNTER RESET.

With the side on which playback is to commence facing you.



Tape counter

Tape travel direction indicator

Selecting the Dolby noise reduction function



Press DOLBY NR.
The NR indicator lights.

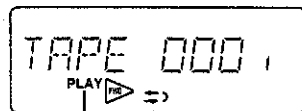
To release the Dolby NR function:
Press DOLBY NR again to turn off the NR indicator.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.



Press PLAY/DIR.

Playback now starts.
While is displayed, the forward side is played back.
While is displayed, the reverse side is played back.



Lights.

Selecting the reverse mode

(Available only from the remote control)



Press REV MODE to select the mode.

Type of tape which can be played on this unit:

| | |
|---------------------------|---|
| Normal/TYPE I | ○ |
| CrO ₂ /TYPE II | ○ |
| Metal/TYPE IV | ○ |

: The tape plays from the forward side to the reverse side, and it then stops automatically.

: The tape plays repeatedly until the STOP is pressed. (In the recording mode, the sound is recorded from the forward side to the reverse side and it then stops automatically.)

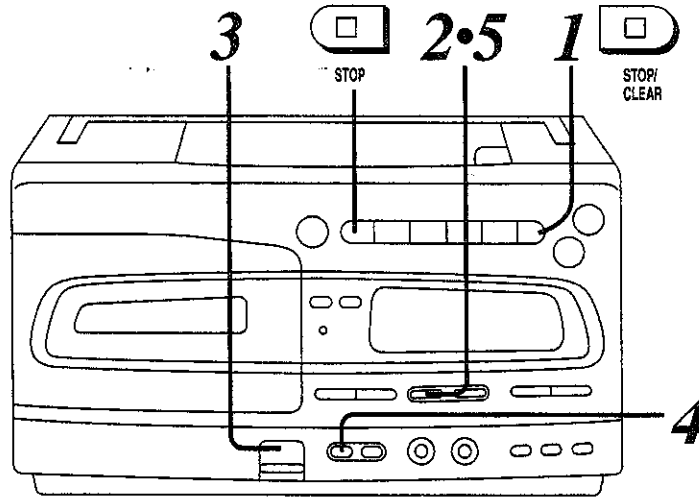
: Only one side of the tape is played, and then the tape stops automatically.

Recording CD

Normal and chrome tapes can be used.
 The unit automatically identifies the type of tape.
 Any change made to the volume or equalizer effect during recording will not affect the recording.

Easy CD recording

All the tracks are recorded in their original sequence onto a single tape. (The reverse mode is automatically set to \Rightarrow .)
 Only part of a track may be recorded at the end of the forward side. This track will be re-recorded in its entirety at the beginning of the reverse side.



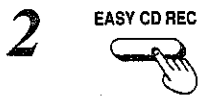
Insert a CD.
 There is no need to take up the leader tape.



Press \square STOP/CLEAR.

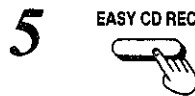
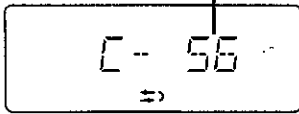


Press DOLBY NR to select the Dolby noise reduction setting. (See page 19.)



Before loading the tape:
 Press EASY CD REC to find out how long the tape must be to accommodate the recording of all the tracks.

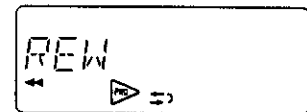
Length of the tape required to record all tracks



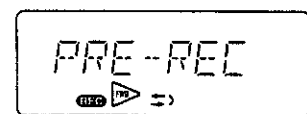
Press EASY CD REC to start recording.

When this button is pressed, the leader tape is rewound and after a 10-second blank is recorded, recording starts. (The recording level is set automatically.)

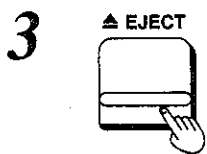
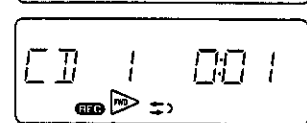
Tape now rewinding



10-second blank now being recorded

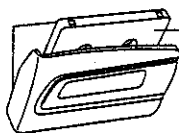


Recording starts



Press \blacktriangle EJECT and load the tape, which is longer than the length indicated in step 2.

With the side on which recording is to commence facing you.



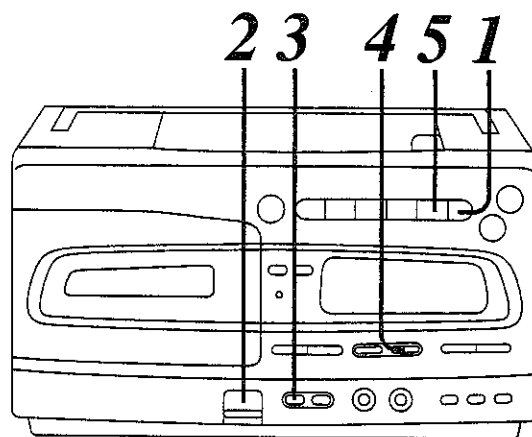
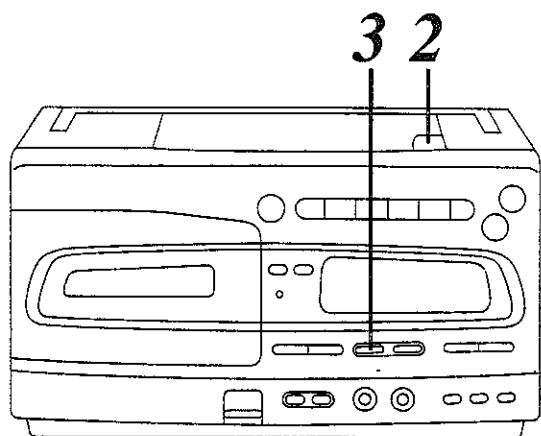
(Example: 60-minutes tape)
 The tape travel direction is automatically set to play the forward side. (The "▶" display lights.)



To stop recording:
 Press \square STOP button.
 The CD play also stops at the same time.

For your reference:

When you intend to record especially important material, ensure you replace worn out batteries beforehand, or simply plug the unit into a household mains outlet.

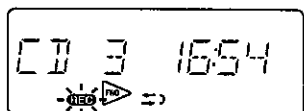


Recording tracks from several CDs onto a single tape

If there is still room on the tape after one CD has been recorded, the unit will be set to the recording standby mode.

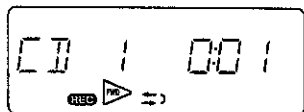
1 Make a recording from the first CD.

2 Press and change the CD.



Flashes.

3 Press EASY CD REC. Recording now starts from the position on the tape.



When another CD is not going to be recorded in succession, press STOP to release the recording standby mode.

Recording your favorite tracks

After programming your favorite tracks (see steps 1 to 4 on page 16), perform steps 2 to 5 on page 20.

Your attention is drawn to the fact that recording pre-recorded tapes or discs on other published or broadcast material may infringe copyright laws.

Type of tape which can be used for recording:

| | |
|---------------------------|---|
| Normal/TYPE I | ○ |
| CrO ₂ /TYPE II | ○ |
| Metal/TYPE IV | × |

Recording using an alternative method to easy CD recording

This method is used in the following cases:

- When recording CD tracks onto the remainder of a tape containing recorded material
- When recording from the reverse side
- When recording tracks with a long time in their original sequence

1 Insert the CD and press STOP/CLEAR.



2 Press EJECT and load the tape with the side to be recorded first facing you.



Play and find the position on the tape where the recording is to start. (When recording from the start of side A or B, have the leader tape wound up before proceeding.)

3 Press DOLBY NR to select the Dolby noise reduction setting. (See page 19.)



REV MODE



Press REV MODE on the remote control to select the reverse mode. (See page 19.)

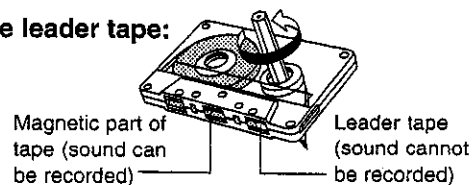
4 Press REC PAUSE. The indicator flashes.



5 Press PLAY/PAUSE. Recording now starts.

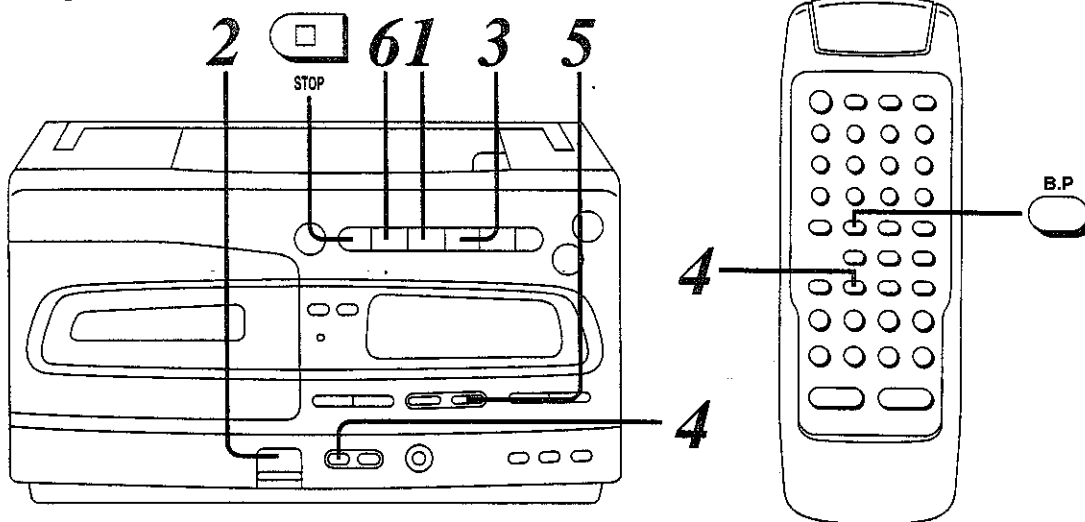


To take up the leader tape:



Recording Radio Broadcasts

Normal and chrome tapes can be used.
 The unit automatically identifies the type of tape.
 The recording level is set automatically.
 Any change made to the volume or equalizer effect during recording will not affect the recording.



Take up the leader tape before proceeding. (See page 21.)

1 **BAND**
 For U.K.:
Press BAND to display "LW", "MW" or "FM".
 → LW → MW → FM →


(The display changes each time the button is pressed.)

For Australia, New Zealand:
Press BAND to display "FM" or "AM".
 → AM → FM →

(The display changes each time the button is pressed.)

2 **EJECT**
Press ▲ EJECT and load the tape.

3 **PRESET TUNING**
Press PRESET TUNING to select the broadcast station.



4 **DOLBY NR**
Press DOLBY NR to select the Dolby noise reduction setting.
 (See page 19.)

REV MODE
Press REV MODE on the remote control to select the mode. (See page 19.)

5 **REC PAUSE**
Press REC PAUSE.

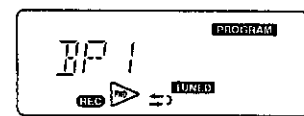
6 **PLAY/DIR**
Press ◀▶ PLAY/DIR.
 While "▶" is displayed, recording starts from the forward side.
 While "◀" is displayed, recording starts from the reverse side.

STOP
To stop recording:
 Press □ STOP.

To stop the recording temporarily:
 Press REC PAUSE. (The REC indicator flashes.)
 To resume the recording, press ◀▶ PLAY/DIR.

When there is too much interference during AM (LW/MW) recording:
 (Available only from the remote control)

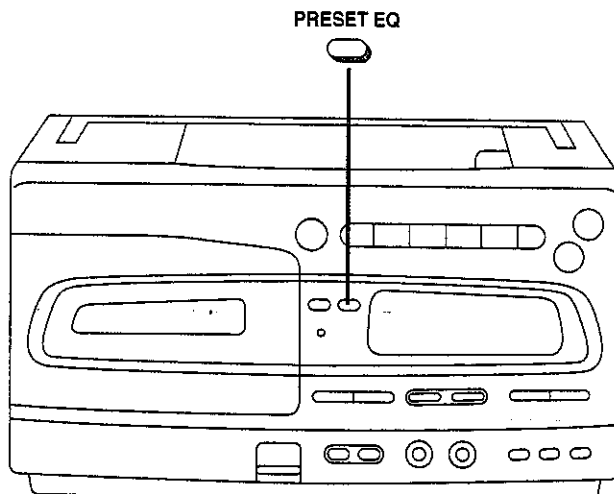
B.P.
Press BP.
 Select "BP1", "BP2" or "BP3", which ever yields less noise. (The sound may be interrupted.)



Note
 BP3 is available only for LW.

Selecting the Equalizer Effect

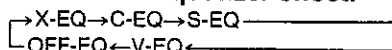
Four equalizer effects have been stored in the unit.



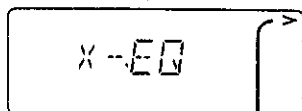
PRESET EQ



Press PRESET EQ to select the desired equalizer effect.



(The display changes each time the button is pressed.)



The display indicates selected equalizer effect.

Please note that the position of arrow mark (legibility) depends on the viewing angle.

About stored equalizer effects:

X-EQ (S-XBS): This gives an added punch to rock music, etc.

C-EQ (CLEAR): This boosts the treble range of music.

S-EQ (SOFT): This produces a soft, background music effect.

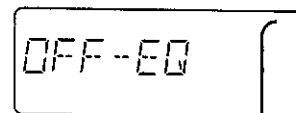
V-EQ (VOCAL): This enhances vocals.

When the equalizer effects are not going to be used (to listen to the original sound):

PRESET EQ



Press PRESET EQ.

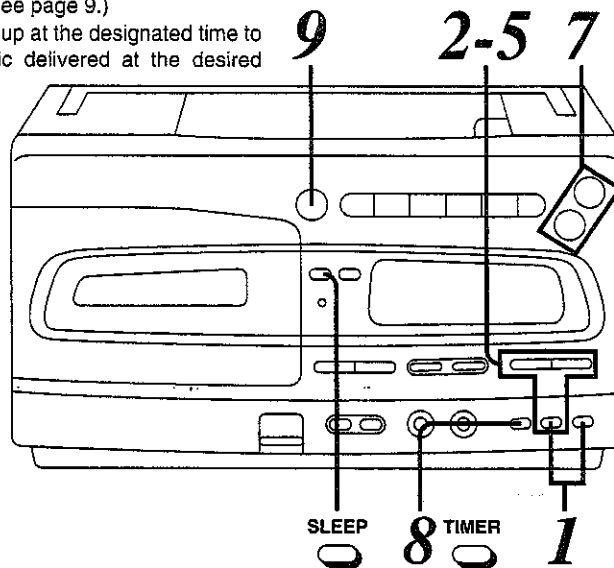


The display indicating the equalizer effects is cleared.

Using the Wake-up Timer

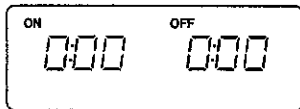
Make sure that you set the clock first. (See page 9.)

The wake-up timer enables you to wake up at the designated time to the sound of a favorite piece of music delivered at the desired volume level.



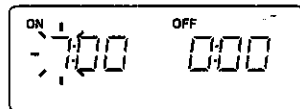
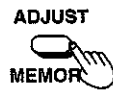
Example: Programming to play a CD from 7:00 to 8:30;

1 **TIME CHECK**
 Press **TIME CHECK** to display timer ON and OFF time.
 →Timer ON/OFF times
 Original display ← Present time ←
 (The display changes each time the button is pressed.)



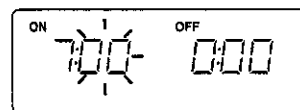
Press **ADJUST**.

2 **[Setting the play start (ON) time]**
 Press **⏮/⏪** or **⏩/⏭** to display "7" for the hour.
 0-1-2...6-7-8...23
 (The display changes each time the button is pressed.)



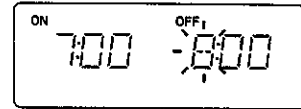
Press **ADJUST**.

3 Press **⏮/⏪** or **⏩/⏭** to display "00" for the minute.
 00-01...03...29-30...59
 (The display changes each time the button is pressed.)



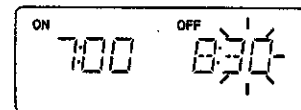
Press **ADJUST**.

4 **[Setting the play end (OFF) time]**
 Press **⏮/⏪** or **⏩/⏭** to display "8" for the hour.
 0-1-2...6-7-8...23
 (The display changes each time the button is pressed.)



Press **ADJUST**.

5 Press **⏮/⏪** or **⏩/⏭** to display "30" for the minute.
 00-01...03...29-30...59
 (The display changes each time the button is pressed.)



Press **ADJUST**.

6 **Select the sound source to be played.**

Listening to radio broadcasts:

Follow the steps 1 and 2 on pages 13 and 14.

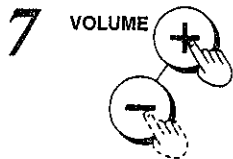
Listening to CD:

Follow the steps 1 and 2 on page 15.

It is possible to program tracks on a CD (see steps 1 to 4 on page 16) and have them played at the time set by the timer. If the CD is ejected, or loaded after the programming, the timer play will start from the first track.

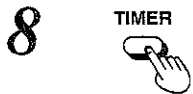
Listening to tapes:

Follow the steps 1 to 3 on page 19.



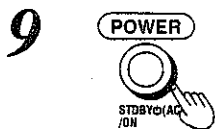
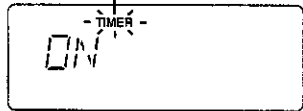
Press VOLUME – or VOLUME + to set the volume to be heard during play.

The volume level during timer operation is now set.

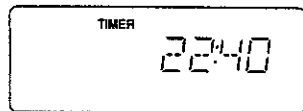


Press TIMER.

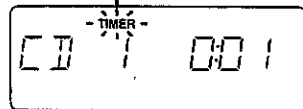
Timer play display lights.



Press POWER to turn the unit off.



This flashes at the programmed time.



To release the timer function:

Press TIMER and clear the timer play display.

The OFF display now appears.

The timer does not operate but the time setting is stored in the memory.

To check what has been programmed (only when unit is OFF):

(Available only the unit is operated on AC power)

Press TIME CHECK.

The display shows the following information each time the button is pressed.

1. Programmed time
2. Programmed source
3. Present time (Original display)

To enjoy play after programming (after step 8):

1. Start playing the desired sound source.
2. After play turn the unit off.

Even if you change the volume level or sound source, whatever was programmed is restored at the wake-up time.

Using the timer at the same time every day:

First check that TIMER appears on the display and then turn the unit off. Follow the steps 6 to 9 to change the source and volume for the timer function.

To stop the timer in mid-operation:

Turn the unit off.

To use the sleep timer in conjunction with the wake-up timer

For example, falling asleep while listening to an FM program and waking up the next morning listening to a CD: See page 28 for the sleep timer operation.

1. Set the timer for playback to listen to the CD (steps 1 to 8 on pages 24 and 25).
2. Listen to the radio.
3. Press SLEEP.

Note

You cannot make a different CD program setting for the timer playback and sleep timer.

For your reference:

Even if the volume is changed for the sleep timer, the sound will be heard while the timer play is operating at the volume which was adjusted when setting the timer play.

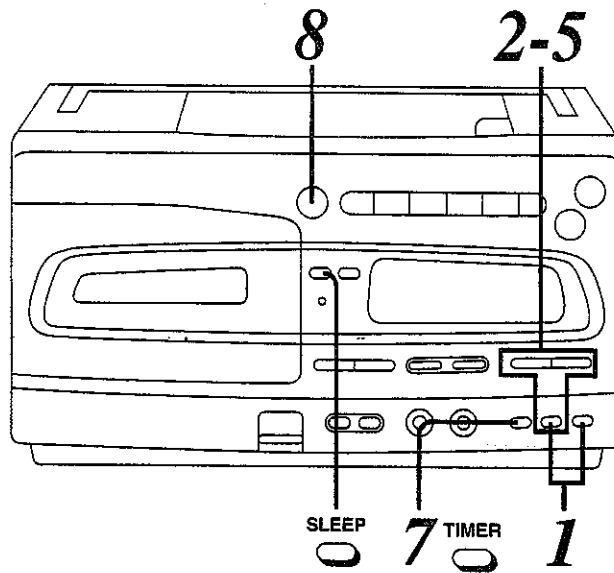
Note

The timer will not operate if the unit is on.

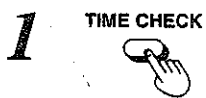
Using the Recording Timer

Make sure that you set the clock first. (See page 9.)

The recording timer makes it possible to record radio program of your choice at the designated time.



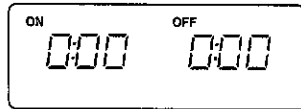
Example: Programming to record a program from 13:00 to 14:30;



Press **TIME CHECK** to display timer ON and OFF time.

→ Timer ON/OFF times
 Original display ← Present time ←

(The display changes each time the button is pressed.)



Press **ADJUST**.

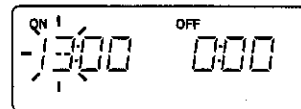


[Setting the recording start (ON) time]

Press **←** or **→** to display "13" for the hour.

0-1-2...12-13-14...23

(The display changes each time the button is pressed.)



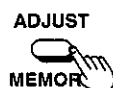
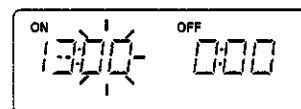
Press **ADJUST**.



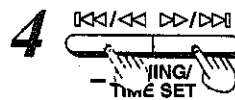
Press **→** or **←** to display "00" for the minutes.

00-01...03...29-30...59

(The display changes each time the button is pressed.)



Press **ADJUST**.

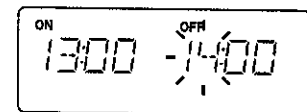


[Setting the recording end (OFF) time]

Press **←** or **→** to display "14" for the hour.

0-1-2...12-13-14...23

(The display changes each time the button is pressed.)



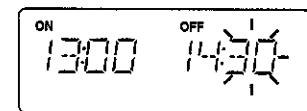
Press **ADJUST**.



Press **→** or **←** to display "30" for the minutes.

00-01...03...29-30...59

(The display changes each time the button is pressed.)



Press **ADJUST**.

6

Prepare to record the program.

1. Load the tape with the side to start recording facing you.
2. Select the broadcasting station. (See pages 13 and 14.)
3. Select the Dolby noise reduction setting and reverse mode. (See page 19.)

Turn down the volume if you do not wish to hear the sound during the recording. (This will not affect the recording level.)

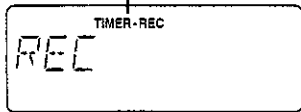
7

TIMER



Press **TIMER**, and press it again while "TIMER" is displayed.

Timer recording display lights.

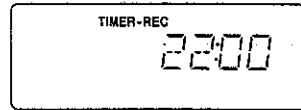


8

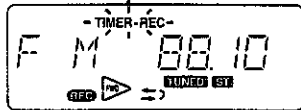
POWER



Press **POWER** to turn the unit off.



This flashes at the programmed time.



TIMER



To release the timer function:

Press **TIMER** and clear the timer recording display.

The OFF display now appears.

The timer does not operate but the time setting is stored in the memory.

To check what has been programmed:

(only when unit is OFF)

(Available only the unit is operated on AC power)

Press **TIME CHECK**.

The display shows the following information each time the button is pressed.

1. Programmed time
2. Programmed station
3. Present time (Original display)

To enjoy play after programming (after step 7):

1. Start playing the desired sound source.
2. After play turn the unit off.

Even if you change the volume level or sound source, whatever was programmed is restored at the time set for recording.

Notes

- The timer will not operate if the unit is on.
- The recording timer is released after the programmed recording has performed.

To use the sleep timer in conjunction with the recording timer

For example, falling asleep while listening to a CD and subsequently recording a late-night program on FM:

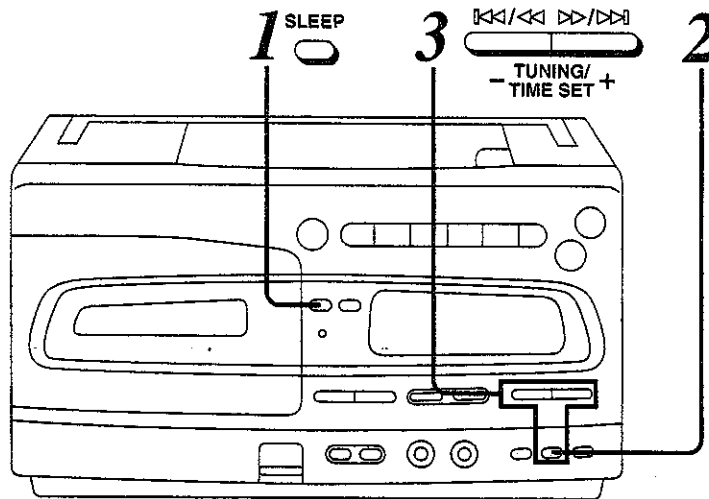
See page 28 for the sleep timer operation.

1. Set the timer for recording (steps 1 to 7 on pages 26 and 27).
2. Play the CD.
3. Press **SLEEP**.

(Set the sleep timer so that the unit is turned off before the start of the timer recording.)

Using the Sleep Timer Function

The unit-off time can be set up to 120 minutes ahead of the present time.



SLEEP

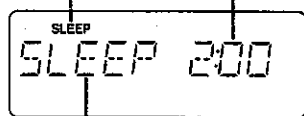


While the desired sound source is playing:

Press SLEEP on to operate the sleep timer function.

The original display is restored after "SLEEP" has appeared, and the unit is turned off after the time set has elapsed.

Sleep indicator Time setting



"SLEEP" display

SLEEP



To release the sleep timer function:

Press SLEEP and press again while "SLEEP" is displayed.

The time setting will remain stored in the memory.

To check the time remaining during operation:

Press SLEEP.

Time remaining: "37" minutes



To change the time remaining during operation:

1. Press SLEEP.
2. Press \lll or \ggg while the time remaining is indicated (about 10 seconds) to change the time.
The changed time is not stored in the memory. When you use the sleep timer function the next time, the original time prior to the change remains programmed.

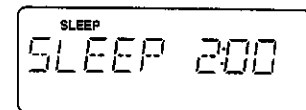
To change the sleep timer's time setting

1

SLEEP



Press SLEEP.

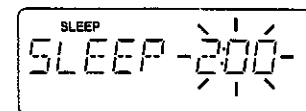


2

ADJUST



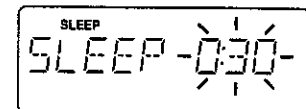
Press ADJUST.



3



Press \lll or \ggg to display the desired time.



ADJUST



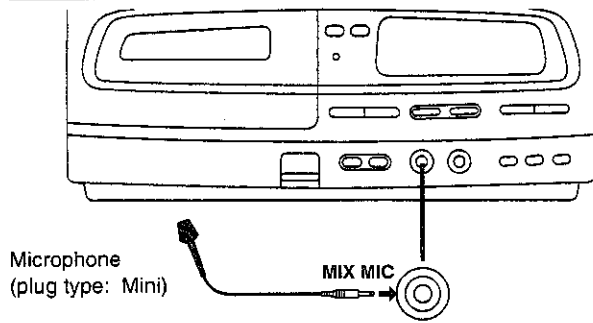
Press ADJUST.

For your reference:

Once a particular time is set, it will remain stored in the memory until it is changed.

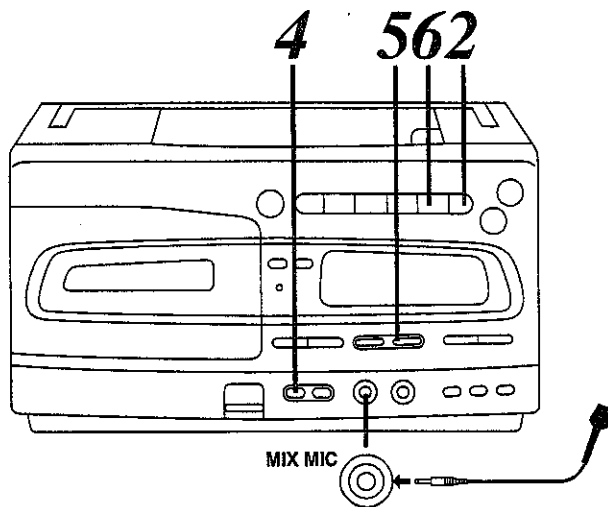
Using Microphone/Headphones

Karaoke



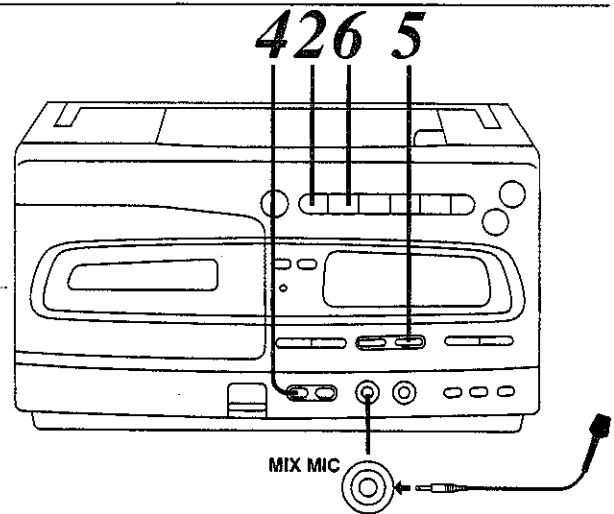
1. Lower the volume and connect the microphone (not included).
2. Start playing a CD or tape or turn on the radio.
3. Start karaoke singing and adjust the volume.

Recording karaoke sound with accompaniment from a CD



1. Lower the volume and connect the microphone.
2. Insert the CD and press STOP/CLEAR.
3. Load the tape.
4. Select the Dolby noise reduction setting and reverse mode. (See page 19.)
5. Press REC PAUSE.
6. Press PLAY/PAUSE and start the karaoke.
Play and recording start.

Recording the sound through the microphone



1. Lower the volume and connect the microphone.
2. Press STOP.
3. Load the tape.
4. Select the Dolby noise reduction setting and reverse mode. (See page 19.)
5. Press REC PAUSE.
6. Press PLAY/DIR.
Recording starts.

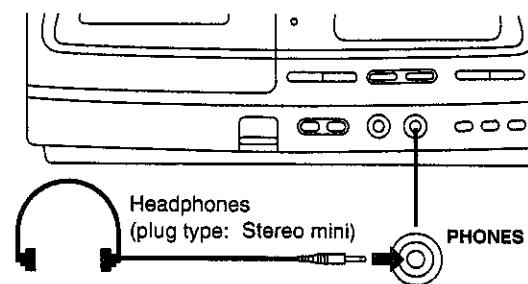
For your reference:

- To record, have the leader tape wound up first.
- Disconnect the microphone when it is not going to be used.
- If howling (a prolonged wailing noise) occurs while the microphone is used, use the microphone further away from the speakers or turn down the volume.

Note

When karaoke singing with accompaniment from a CD, sound is heard only while the CD is playing. No sound is heard in the stop or pause mode.

Listening to sound with headphones



Lower the volume and connect the headphones (not included).

Avoid listening for prolonged periods of time to prevent hearing damage.

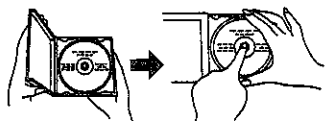
Concerning CD

Only compact discs having this mark can be used with this unit.



To remove a disc from its case

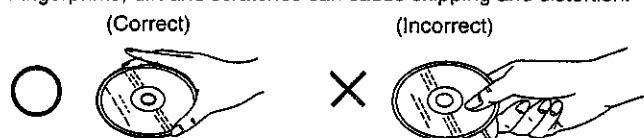
Press the center holder and lift the disc holding by the edges.



To hold the disc

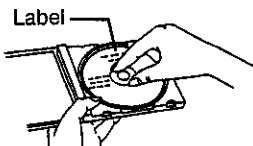
Hold the disc by the edges so the surface is not soiled with fingerprints.

Fingerprints, dirt and scratches can cause skipping and distortion.



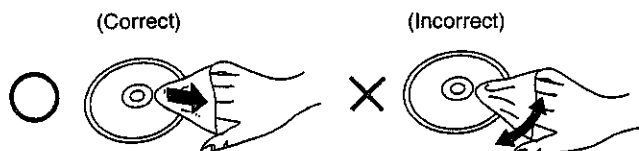
To store a disc in its case

Insert the disc label facing upwards and press downward at the center.



If the surface is soiled

Wipe gently with a soft, damp (water only) cloth.



If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.

Improper disc storage:

You can damage discs if you store them in the following places;

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Handling precautions:

- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not soil with fingerprints.

Concerning Cassette Tapes

Selection of cassette tapes

Cassette tape exceeding 90 minutes:

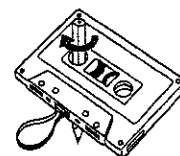
These tapes are handy for their long playback and recording time but be careful about repeatedly stopping, starting, rewinding and fast forwarding these tapes in short intervals as they are thin, tend to stretch and may become entangled in the deck mechanism.

Do not use the Fe-Cr tapes (TYPE III) in this system:

If you use this tape, it is impossible to obtain the required flat frequency response.

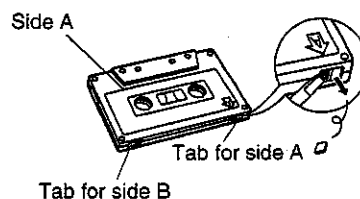
If the tape loosens, take up the slack

Tape slack may cause the tape to break.

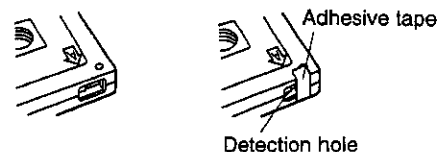


To prevent erasure of recorded sounds

Remove the erase-prevention tabs with a screwdriver or a similar object.



To re-record on a protected cassette, cover the slot with adhesive tape.



Do not cover the detection holes on chrome and metal tapes.

Improper tape storage:

You can damage tapes if you store them in the following places;

- In high temperature [35°C or higher] or high humidity (80% or higher) areas
- In a strong magnetic field (near a speaker, on top of a TV, etc.)
- This can erase a recording.
- Areas exposed to direct sunlight

Maintenance

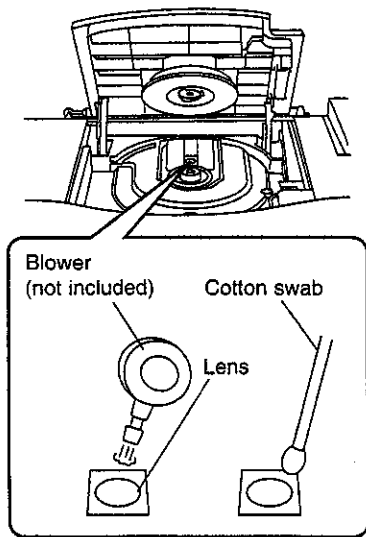
Maintenance of external surfaces

To clean this unit, use a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dipped in a soap-and-water solution or a weak detergent solution.

Wring the cloth well before wiping the unit.
Wipe once again with a soft, dry cloth.
Never use alcohol, paint thinner, benzine, or chemically treated cloths to clean this unit. Such chemicals may damage the finish of your unit.

Lens care

Open the CD lid and clean the lens with a blower (not included).
If the lens is extremely dirty, clean it with a cotton swab.

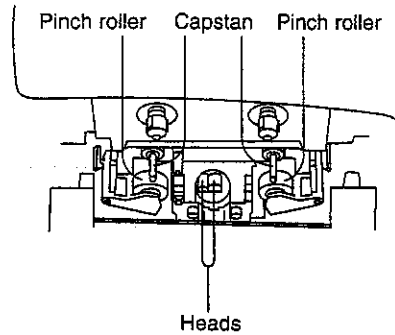


Tape head care

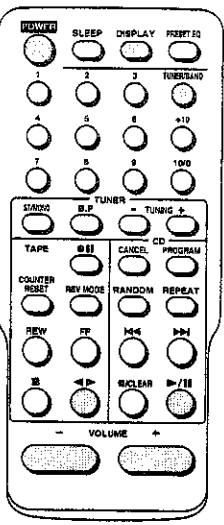

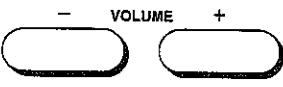


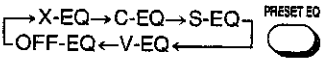





To assure sound quality for recording and playback, be sure to clean the tape heads after approximately every 10 hours of use.

1. Press POWER to turn the unit off.
2. Press **EJECT** to open the tape lid.
3. Clean the tape heads, pinch rollers and the capstan shafts with a cotton swab (or a soft, lint-free cloth) slightly moistened with isopropyl alcohol.

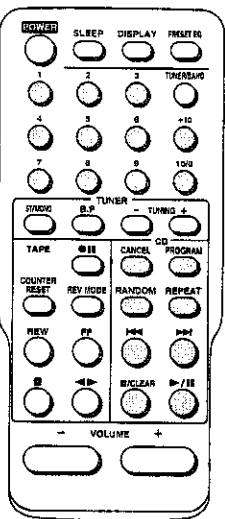





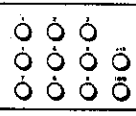
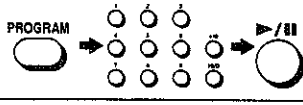



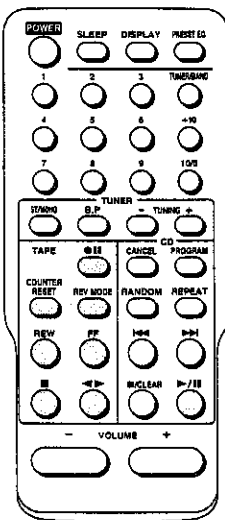








Do not use any solution other than alcohol for head cleaning.



Quick Reference of Remote Control Operations

| | | |
|---|---|---|
|  | <h3>Common operations</h3> | |
| | Turning the unit ON/OFF (when a household mains outlet is used) |  |
| | Adjusting the volume |  |
| | Selecting the display (See page 11.) |  |
| | One-touch play (See page 12.) | (Radio) (CD) (Tape)  |
| <h3>Sound quality adjustment/timer operations</h3> | | |
| | Selecting the equalizer effects (See page 23.) | (The display changes each time the button is pressed.)  |
| | Setting/releasing the sleep timer (See page 28.) |  |
| <h3>Tuner operations</h3> | | |
| | Listening to a programmed radio station (See page 13.) |  |
| | Listening to a radio station which has not been programmed (See page 14.) |  |
| | Selecting FM reception in stereo or mono (See page 14.) |  |
| | Reducing noise during the recording of AM (LW/MW) programs (See page 22.) |  |

Quick Reference of Remote Control Operations

| | | |
|---|---|---|
|  | CD operations | |
| | Starting play (See page 15.) |  |
| | Temporarily stopping play (See page 15.) |  |
| | Stopping play (See page 15.) To clear program play (See page 16.) |  |
| | To skip tracks (See page 18.) |  |
| | To search forward or backward (See page 18.) |  |
| | Listening from a particular track (See page 18.) |  |
| | Selecting and listening to favorite tracks (See page 16.) |  |
| | Listening to a track repeatedly (See page 17.) |  |
| Listening to tracks at random (See page 17.) |  | |
| To erase last programmed track (See page 16.) |  | |
|  | Tape operations (See page 19.) | |
| | Starting play |  |
| | Changing the direction |  |
| | Fast forwarding |  |
| | Rewinding |  |
| | Stopping play |  |
| | Recording (See page 21.) |  |
| | Selecting the reverse mode |  |
| | Resetting the tape counter to 000_ |  |

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

| Problem | Probable cause(s) | Suggested Remedy |
|---------|-------------------|------------------|
|---------|-------------------|------------------|

| Common problems | | |
|---|---|--|
| No operation. (When batteries are used as the power source.) | Is the AC mains lead still connected to the unit while batteries are being used? | Disconnect the AC mains lead. |
| | Are the batteries flat? | Replace them with new ones. Alternatively, use a household mains outlet as the power source. |
| | Have the batteries been installed incorrectly with their (+) and (-) polarities reversed? | Align the (+) and (-) polarities correctly. |
| "ERROR" appears. | Have you made a mistake in operation? | Read the operating instructions and try again. |
| "U01" appears. | The batteries are flat. | Replace them with new ones. Alternatively, use a household mains outlet as the power source. |
| "U02" appears. | Preparations have not been made to supply power to the unit. | Install the batteries or connect the AC mains lead. |

| While listening to CD | | |
|--|---|--|
| Play does not start. No display of track numbers, etc. | Has the CD been installed upside down? | Install the CD with the label side facing up. |
| | Has condensation formed on the unit's CD section? | Turn the unit on and leave it on for about an hour before further operation. |
| Certain sections are not played properly. | Is the CD dirty? | Wipe it with a soft cloth. |
| | Is the CD scratched? | Replace with a new CD. |

| While listening to tape | | |
|--|---|---|
| No recording. | Have the tape's erase-prevention tabs been removed? | Cover the holes with adhesive tape. |
| High level of noise; poor sound quality. | Are the heads soiled? | Clean them. |
| | Have the heads been magnetized? | Demagnetize them using a head eraser available from an audio store. |

| While listening to the radio | | |
|--|--|---|
| High level of noise; stations cannot be tuned in well. | Has the antenna been adjusted properly? | Try changing its direction. |
| Noise heard during AM (LW, MW) reception. | Are you using a remote control of other appliance near the unit? | Use the remote control at a distance. |
| | Are you operating the unit and a TV set at the same time? | Place the unit at a distance from the TV. Alternatively, turn off the TV's power. |

| While using the remote control | | |
|--------------------------------|---|--|
| No operation. | Are the batteries flat? | Replace them with new ones. |
| | Have the batteries been installed incorrectly with their (+) and (-) polarities reversed? | Align the (+) and (-) polarities correctly. |
| | Is the remote control's transmitter pointed at the unit's sensor? | Check whether anything is obstructing the path between the two and point the remote control squarely at the unit's sensor and operate. |
| | Is the unit's sensor exposed to direct sunlight or strong fluorescent light? | Shield the sensor from strong sources of light. |

| Problem | Probable cause(s) | Suggested Remedy |
|--|---|--|
| While using the timer | | |
| No timer operation at the programmed time. | Is the unit on (when the wake-up timer and recording timer are being used)? | Turn off the unit upon completion of the settings. |
| | Has the programmed timer indicator (TIMER, TIMER-REC or SLEEP) lighted? | Operate again so that the display lights up. |

About condensation

"Condensation" refers to the droplets of water which form, for example, on a cold winter's day on the window panes in a warm room. This unit contains a lens in the CD section, and condensation may form on it in the following cases.

- Immediately after the heating has been turned on in the room

- In a steamy or very humid room
- When the unit is suddenly moved from a cold environment to a warm environment

In cases like these, the unit may not function properly. Turn the unit on and wait about an hour before attempting any further operations.

Technical Specifications

Radio

Frequency range

(For U.K.)

LW 144–288 kHz

MW 522–1611 kHz

FM 87.5–108.0 MHz

(For Australia, New Zealand)

AM 522–1611 kHz

FM 87.5–108.0 MHz

CD player

Sampling frequency 44.1 kHz

Decoding 16 bit linear

Beam source Semiconductor laser (wavelength 780 nm)

No. of channels 2 channel, stereo

Frequency response 20 Hz–20 kHz (+1, –2 dB)

Wow and flutter Less than possible measurement data

D/A converter MASH (1 bit DAC)

Tape recorder

Track system 4 track, 2 channel, stereo

Recording system AC bias

Erasing system AC erase

Monitor system Variable sound monitor

Frequency range

Normal 30–16000 Hz

CrO₂ 30–17000 Hz

Metal 30–17000 Hz

General

Power requirement

AC

230–240 V, 50 Hz,

Power consumption; 42 W

Battery

12 V (Eight "R20/LR20" size, UM-1 batteries)

Memory back-up for

computer/clock

6 V (Four "R6/LR6" size, UM-3 batteries)

Speakers

2 Woofer

8 cm

2 Tweeter

6×7 cm

Jacks

Input

MIX MIC; 5 mV (200–600Ω)

Output

SPEAKERS; LOW 2.7–8Ω

HIGH 6–16Ω

PHONES; 32Ω

Dimensions (W×H×D)

586×153×249 mm

Main unit; 297×153×249 mm

Speaker box; 150×152×233 mm

6.3 kg without batteries

Weight

Note:

Specifications are subject to change without notice.

Weight and dimensions are approximate.

MASH is a trademark of NTT.

This apparatus was produced to BS 800.

Matsushita Electric Industrial Co., Ltd.

Central P.O. Box 288, Osaka 530-91, Japan

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