

aiwa

**OPERATING INSTRUCTIONS
INSTRUCCIONES DE MANEJO
MODE D'EMPLOI**

CSD-NS1

**DIGITAL AUDIO SYSTEM
SISTEMA DE AUDIO DIGITAL
SYSTÈME AUDIO-NUMÉRIQUE**

English : See page 2.

En

Español : Ver la página 14.

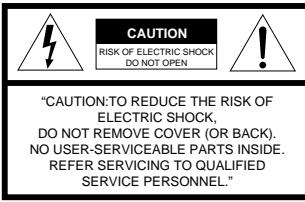
E

Français : Voir page 26.

F

WARNING

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



Explanation of Graphical Symbols:



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



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

OWNER'S RECORD

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

Model No.

Serial No.


Precautions

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

Installation

- 1 Water and moisture** - Do not use this unit near water, such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, swimming pool, or the like.
- 2 Heat** - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat.

It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).

- 3 Mounting surface** - Place the unit on a flat, even surface.
- 4 Ventilation** - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit and 5 cm (2 in.) from each side.
 - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
 - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
- 5 Objects and liquid entry** - Take care that objects or liquids do not get inside the unit through the ventilation openings.
- 6 Carts and stands** - When placed or mounted on a stand or cart, the unit should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall. 
- 7 Condensation** - Moisture may form on the CD pickup lens when:
 - The unit is moved from a cold spot to a warm spot
 - The heating system has just been turned on
 - The unit is used in a very humid room
 - The unit is cooled by an air conditionerWhen this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
- 8 Wall or ceiling mounting** - The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

- 1 Power sources** - Use on AC house current, as specified in the Operating Instructions and marked on the unit.
- 2 Polarization** - As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
- 3 AC power cord**
 - When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
 - Never handle the AC power plug with wet hands, as this could result in fire or shock.
 - Power cords should be firmly secured to avoid being bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
 - Avoid overloading AC outlets and extension cords beyond their capacity, as this could result in fire or shock.

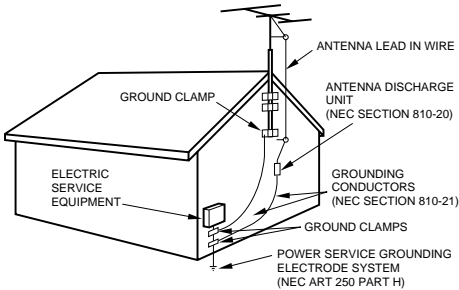
Specifications

- 4 Extension cord** - To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
- 5 When not in use** - Unplug the AC power cord from the AC outlet or remove all the batteries if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Outdoor Antenna

- 1 Power lines** - When connecting an outdoor antenna, make sure it is located away from power lines.
- 2 Outdoor antenna grounding** - Be sure the antenna system is properly grounded to provide protection against unexpected voltage surges or static electricity build-up. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information on proper grounding of the mast, supporting structure, and the lead-in wire to the antenna discharge unit, as well as the size of the grounding unit, connection to grounding terminals, and requirements for grounding terminals themselves.

Antenna Grounding According to the National Electrical Code



NEC-NATIONAL ELECTRICAL CODE

Maintenance

Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service

Have the units serviced by a qualified service technician if:

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

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

Tuner section

Frequency range, antenna – FM: 87.5 - 108.0 MHz, Rod antenna, FM antenna terminal: 75 ohms (unbalanced). AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step), AM loop antenna.

Deck section

Track format – 4 tracks, 2 channels / Frequency range – Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system – AC bias / Erasing system – AC erase / Heads – Recording/playback head (1), Erasure head (1)

CD player section

Disc – Compact disc / Scanning method – Non-contact optical scanner (semiconductor laser)

General

Speaker – 100 mm cone type (2) / Output – Headphones jack (stereo mini-jack) / Power output – 10 W + 10 W (EIAJ, 4 ohms, T.H.D. 10%) / Power requirements – AC 120 V, 60 Hz / Power consumption – 40 W / Power consumption in standby mode – With ECO mode on: 1.2 W, With ECO mode off: 9.4 W / Dimensions (W × H × D) – 482 × 168 × 231 mm (19 × 6⁵/₈ × 9¹/₈ in.) / Weight – 6.7 kg (14 lbs. 12 oz.) / Accessories – Remote control (1), AC cord (1), AM loop antenna (1)

Specifications and external appearance are subject to change without notice.

COPYRIGHT

Please check the copyright laws relating to recordings from disc, radio or external tape for the country in which the machine is being used.

En

If an erroneous display or malfunction occurs

Turn off the unit and press POWER \odot STANDBY/ON while pressing \blacksquare .

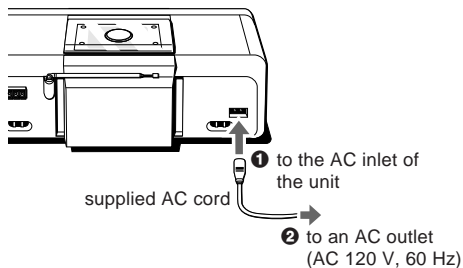
If the unit cannot be reset in the way above, disconnect the AC cord to turn off the display.

Leave the unit for a while and turn the power back on.

Power supply

Using on AC house current

Connect the AC cord as illustrated below.

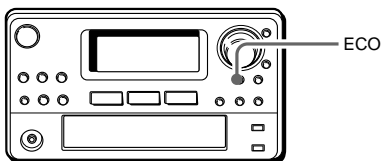


The rated voltage of the unit is 120 V AC.

CAUTION

Use only the supplied AC cord. Use with other cords may result in the risk of fire.

Power economizing (ECO) mode



Setting the unit to the ECO mode reduces the power consumption while the unit is turned off (standby).

- When the clock is set for the first time, the ECO mode is automatically activated.
- In the ECO mode, everything on the display goes out and only the POWER ϕ STANDBY indicator lights up.

To cancel the ECO mode

Press ECO while the power is off.

The clock is always displayed while the power is off.

To restore the ECO mode, repeat the above.

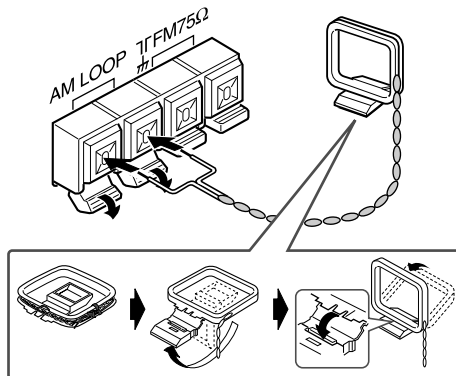
Power consumption in standby mode

with ECO mode on: 1.2 W

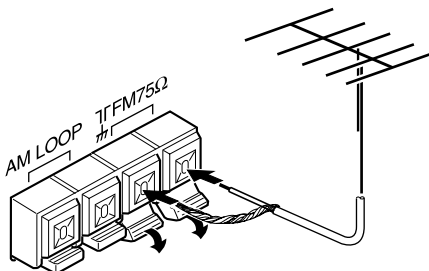
with ECO mode off: 9.4 W

Connecting antennas

Connect the AM loop antenna to the AM LOOP terminals on the rear of the unit. Keep the antenna away from metallic objects, electrical equipment and cords.

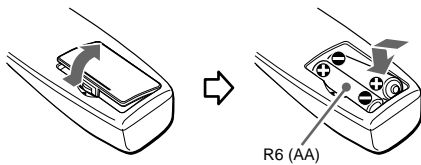


For better FM reception, connect an outdoor antenna to the FM 75 Ω terminals.



Remote control

Insert two R6 (size AA) batteries.



- When the reach of the remote control signal is less than 5 meters (16 feet), replace the batteries.
- Remove the batteries if the remote control is not going to be used for a long time.

The remote control may not operate correctly when:

- The unit is exposed to intense light, such as direct sunlight
- Objects block the remote control signal to the unit

To use the buttons on the remote control

Buttons on the remote control and the main unit with identical or similar indications have the same functions.

To turn the power on

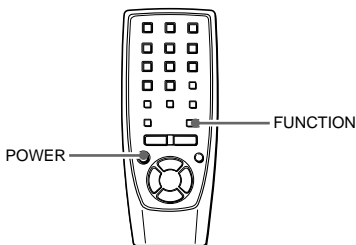
Press POWER to turn on the display.

To turn the power off

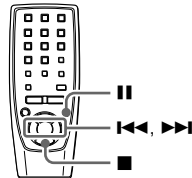
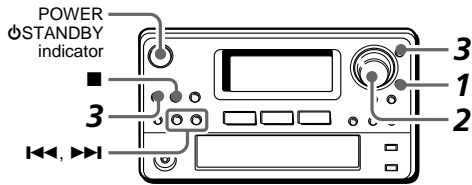
Press POWER to turn off the display.

To use the FUNCTION button

Each time FUNCTION is pressed while the power is on, the function is selected cyclically.



Setting the clock



When the AC cord is connected for the first time, the clock display flashes. Set the time.

1 Press **TIMER**.

"⌚" flashes in the display.

2 Turn **VOLUME/TIMER** to adjust the clock.

◀▶ or ▶▶ is also available. Holding it down changes the time in 20-minute units.

3 Press **ENTER** or **||** to complete the setting.

The clock starts from 00 seconds.

NOTE

When the clock is set for the first time, everything on the display goes out and the POWER ⏻STANDBY indicator lights up. This is because the power economizing mode is automatically activated. The power economizing mode can be cancelled (see page 4).

To display the current time

Press **TIMER**.

To cancel the clock display while the power is on, press it three times or one of the function buttons. While the power is off in the power economizing mode, press **TIMER** again.

To switch to the 12/24-hour standard

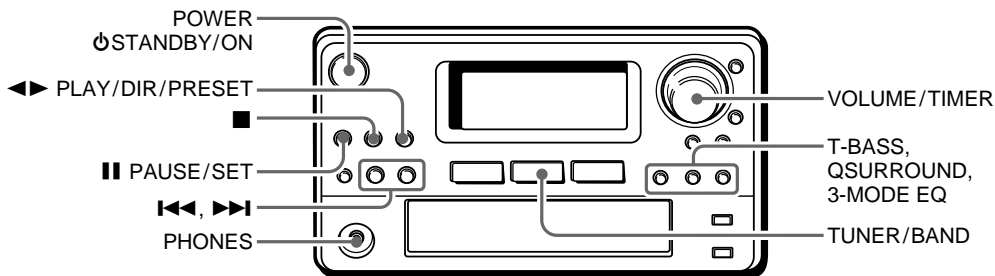
Press **TIMER** to display the clock and press **■**.

In the 12-hour standard, "AM 12:00" indicates midnight and "PM 12:00" indicates noon.

If the clock display flashes while the power is off

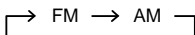
This is caused by a power interruption. Reset the clock. A long power interruption will clear all the memories such as preset stations and timer settings.

En



A TUNER OPERATION

- 1 Press *TUNER/BAND repeatedly to select the desired band.**



The power is turned on and the previously tuned station is received.

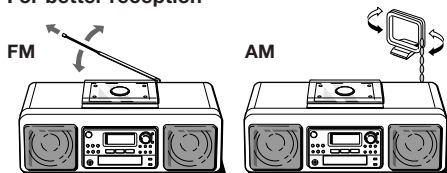
* or BAND on the remote control

- 2 Press ◀◀, ▶▶ (TUNING ◀◀ -, + ▶▶) to select a station.**

During FM stereo reception, "STEREO" is displayed.

After listening, press POWER \odot STANDBY/ON to turn the power off.

For better reception



Extend the rod antenna and orient it for the best reception.

Rotate the AM loop antenna to find the best reception.

- When connecting an FM outdoor antenna, see "Connecting antennas" on page 4.

For quick tuning (Auto Search)

Keep ◀◀, ▶▶ pressed until the tuner starts searching for a station. When a station is tuned to, the search stops.

If the broadcast signal is weak, it does not stop. To stop the search manually, press ◀◀ or ▶▶.

When an FM stereo broadcast contains noise

Press MODE on the remote control so that "MONO" is displayed.

Noise is reduced, although reception is monaural.

To change the AM tuning interval

The default setting of the AM tuning interval is 10 kHz/step. If you use the unit in an area where the frequency allocation system is 9 kHz/step, change the interval as follows.

- 1 Press TUNER/BAND.
- 2 Press POWER \odot STANDBY/ON while pressing TUNER/BAND.

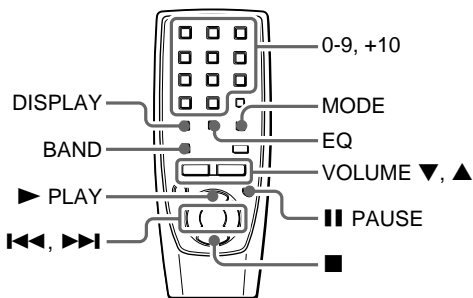
When the AM tuning interval is changed, the preset stations are cleared.

NOTE

If the unit picks up noise from other electrical appliances nearby, like a TV or fluorescent lights, move the unit.

To listen with the headphones

Connect headphones with a stereo mini plug to the PHONES jack.



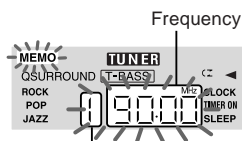
PRESETTING STATIONS

You can preset up to 15 stations in each band.

1 Select a station.

2 Press * || PAUSE/SET once so that "MEMO" flashes to store the station.

A station is assigned a preset number, beginning from 1 in consecutive order for each band.



Preset number

* or || PAUSE on the remote control

3 Repeat steps 1 and 2.

The next station will not be stored if a total of 15 preset stations have already been stored for a band.

To listen to preset stations

Select a band then press ◀▶ PLAY/DIR/PRESET repeatedly.

▶▶ PLAY on the remote control is also available.

To select a preset number directly with the remote control

Press the numbered buttons 0-9 and +10.

Example:

To select number 15, press +10 and 5.

To select number 10, press +10 and 0.

To clear a preset station

Select the preset number first. Press ■, and press || within 4 seconds.

The higher numbers in the band are decreased by one.

SOUND ADJUSTMENT

Volume or tone adjustment does not affect recording.

VOLUME/TIMER (VOLUME)

Turn VOLUME/TIMER, or press VOLUME ▼ or ▲ on the remote control. The volume level is displayed as a number 0 to 25 (MAX).

- The volume level is automatically set to 14 if the power is turned off when the volume level is set to 15 or more.
- Pressing DISPLAY on the remote control displays the adjusted volume level.

*3-MODE EQ (equalizer)

Press 3-MODE EQ repeatedly until the desired mode is displayed.

The equalizer mode changes to ROCK, POP, JAZZ or no equalization, cyclically.

ROCK - Emphasizes the high and low range of music.

POP - Emphasizes voice and midrange of music.

JAZZ - Emphasizes the low range of music.

* or EQ on the remote control

T-BASS system

The T-BASS system enhances the realism of low-frequency sound.

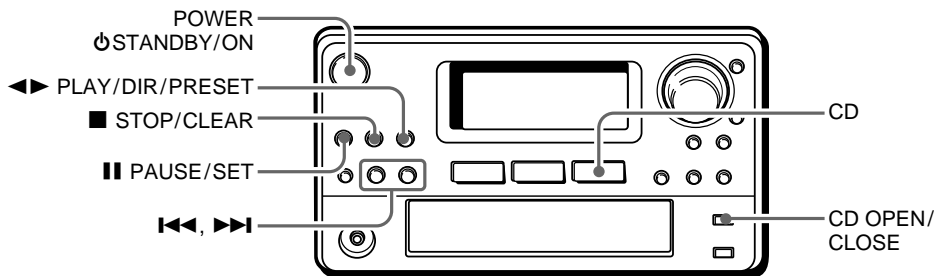
Press T-BASS to turn it on or off.

QSURROUND system

The QSURROUND system built into this unit uses only two speakers at the left and right to create an atmosphere that sounds as if you are surrounded by two front speakers and two rear speakers.

Press QSURROUND to turn it on or off.

- The QSURROUND system does not work for monaural sources.
- At higher volumes, turning QSURROUND on may cause sound distortion. In this case, make the volume down.



B CD OPERATION

1 Press CD.

The power is turned on.

2 Press CD OPEN/CLOSE to open the disc compartment. Set a disc with the printed side up, then press CD OPEN/CLOSE to close the disc compartment.

Total number of tracks and total playing time are displayed. It will take about 15 seconds when loading a CD-RW disc.

3 Press ◀▶ PLAY/DIR/PRESET to start play.

The number of the track being played and elapsed playing time are displayed.

To remove the disc

Open the disc compartment. Pick up the disc, holding its edge, while pressing the center pivot gently.

■ **STOP/CLEAR** – Stops play.

▬ **PAUSE/SET** – Pauses play. To resume play, press again.

◀▶, ▶▶ – Searches for a particular point during playback. Hold down ◀▶ or ▶▶ and then release it.

– Skips to the beginning of a track. Press ◀▶ or ▶▶ repeatedly.

To start play when the power is off, press CD. The power is turned on and play of the loaded disc begins (Direct Play Function).

To select a track directly with the remote control, press the numbered buttons 0-9 and +10. CD play starts from the selected track and continues to the last track.

Example:

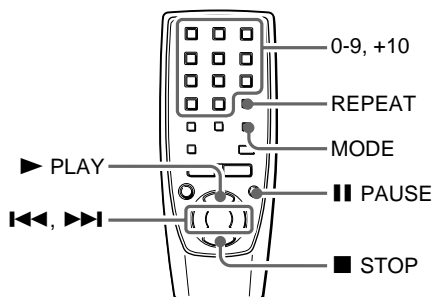
To select number 25, press +10, +10 and 5.

To select number 10, press +10 and 0.

After listening, press POWER ◻STANDBY/ON to turn the power off.

NOTE

- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.
- Do not place more than one disc in the disc compartment.
- Do not touch the lens. Doing so may cause malfunctions.
- The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
- Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.
- When loading an unrecorded CD-R/RW disc, you may not open the disc compartment immediately after pressing CD OPEN/CLOSE. Wait for a while.



REPEAT, RANDOM PLAY

A single track or all tracks can be played repeatedly, and all the tracks randomly. Random play can be repeated as well.

Operate with the remote control.

Repeat play

Press REPEAT repeatedly to select **REPEAT ALL** or **REPEAT 1**.

REPEAT ALL: Repeats all the tracks.

REPEAT 1: Repeats a single track. Select a track with **SKIP BACK** or **SKIP FORWARD**.

To cancel, press the button repeatedly so that **REPEAT ALL** or **REPEAT 1** disappears.

Random play

In stop mode, press MODE once so that "RANDOM" is displayed.

To cancel, press MODE twice in stop mode.

NOTE

- During random play, you cannot skip back to the previous track with **SKIP BACK**.
- When selecting a track with the numbered buttons, random play is canceled.

PROGRAMMED PLAY

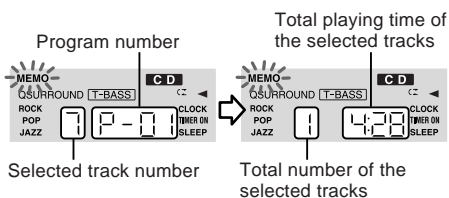
Up to 30 tracks can be programmed from the disc. Operate with the remote control.

- 1 In stop mode, press MODE repeatedly until "MEMO" flashes in the display.**
- 2 Press the numbered buttons 0-9 and +10 to program a track.**

Example:

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

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



- 3 Repeat step 2 to program other tracks.**
- 4 Press **▶ PLAY** to start play.**

To check the program, press **SKIP BACK** or **SKIP FORWARD** in stop mode.

To clear the program, press **STOP** or MODE once in stop mode so that "MEMO" disappears in the display.

To add tracks to the program, repeat step 2 in stop mode. The track will be programmed after the last track.

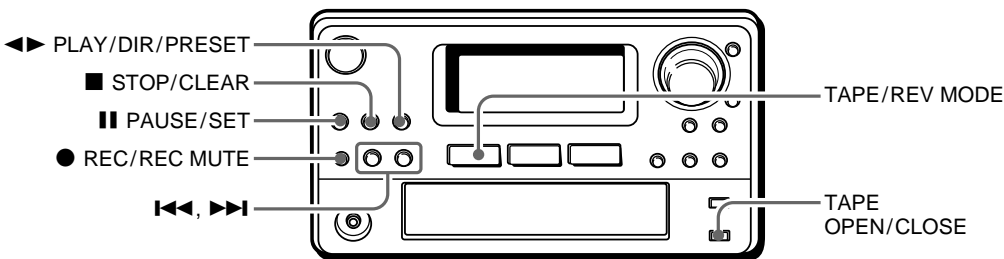
To change the programmed tracks, clear the program and repeat all the steps again.

NOTE

The total playing time of the selected tracks will be displayed as "--:--".

- When it exceeds "99:59".

- When a track number 31 or higher is selected.



C TAPE OPERATION

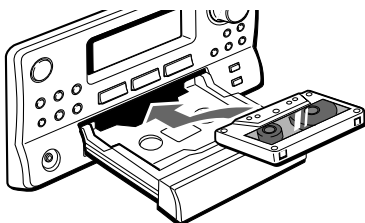
Use Type I (normal) tapes only.

PLAYBACK

1 Press TAPE/REV MODE.

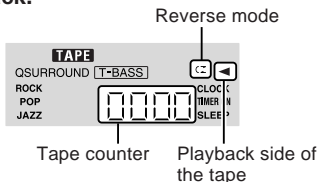
The power is turned on.
If the tape has been inserted, play begins.

2 Press TAPE OPEN/CLOSE to open the cassette compartment and load a tape with the exposed side facing forward.



Press TAPE OPEN/CLOSE to close the compartment.

3 Press ▶◀ PLAY/DIR/PRESET to start playback.



■ **STOP/CLEAR** – Stops play.

⏸ **PAUSE/SET** – Pauses play. To resume play, press again.

⏮/▶▶ **REWIND/FAST FORWARD** – Rewinds/ fast forwards. To stop the winding, press ■.

After listening, press POWER ⏻/STANDBY/ON to turn the power off.

To change the playback side, press ▶◀ during play.

◀ : Plays the side facing up.

▶ : Plays the opposite side.

To select a reverse mode, press TAPE/REV MODE repeatedly.

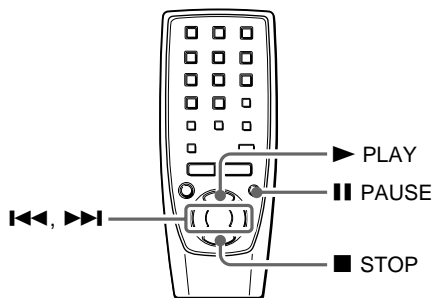
⏮ : Plays one side only.

⏮⏮ : Plays both sides once. Play stops at the end of the reverse side.

⏮⏮⏮ : Plays both sides repeatedly.

To set the tape counter to "0000"

Press ■ in stop mode. The counter is also set to "0000" when opening the cassette compartment.



RECORDING

- 1 Load a tape with the side to be recorded on facing up and the exposed side facing forward.**
- 2 Press TAPE/REV MODE to select the reverse mode.**
 ☰ : Records on one side only.
 (☰ or ☲) : Records on both sides. Check that ◀ is displayed, so as to start recording from the side facing up.
- 3 Get ready to record from the source.**
To record from a CD, press CD and load the disc.
To record from a radio broadcast, press TUNER/BAND and tune to a station.
- 4 Press ● REC/REC MUTE to start recording.**
 "REC" flashes on the display.
 When the selected function is CD, CD play and recording starts simultaneously.

To record only the selected tracks of a CD

- 1 Follow steps 1 to 3 of PROGRAMMED PLAY on page 9 to program tracks.
- 2 Press ●.

To stop recording, press ■. To stop CD play, press it again.

To pause recording (only when the source is TUNER), press ||. To resume, press it again.

To erase recording, press TAPE/REV MODE and press ●.

After recording, press POWER ○STANDBY/ON to turn the power off.

To insert blank spaces

When recording from the radio, 4-second blank spaces can be inserted. These spaces are useful to locate the desired portion on the tape when playing back on other units with the "Music Sensor" function.

- 1 Press ● REC/REC MUTE in recording or recording pause mode.
 "REC" indicator flashes quickly and the tape runs without recording for 4 seconds, then pauses.
- 2 Press || to resume recording.

To make blank spaces less than 4 seconds, press || while "REC" flashes quickly.

To make blank spaces more than 4 seconds, press ● again after the tape pauses.

En

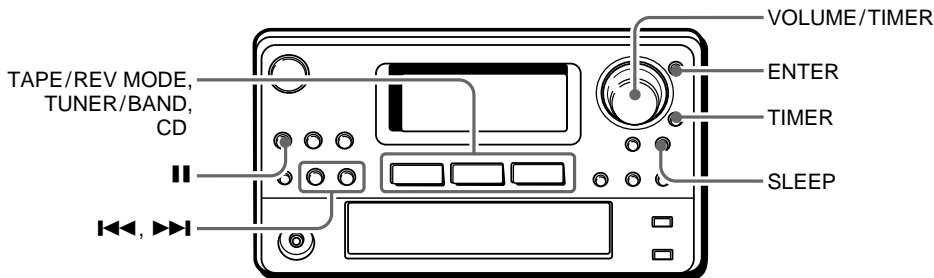
To prevent accidental erasure

Break off the plastic tabs on the cassette tape with a screwdriver or other pointed tool after recording.

To record on the tape again

Cover the tab openings with adhesive tape, etc.





D TIMER OPERATION

TIMER PLAYBACK/RECORDING

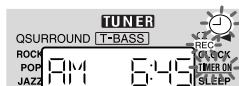
The unit can be turned on at a specified time every day with the built-in timer.

Make sure the clock is set correctly.

1 Press TIMER twice for timer play or three times for timer recording so that “⊕” or “⊖ REC” flashes in the display.

2 Turn VOLUME/TIMER to specify the timer-on time.

◀◀ or ▶▶ is also available. Holding it down changes the time in 20-minute units.



Timer-on time

3 Press ENTER or ||.

4 Turn VOLUME/TIMER to specify the timer-activated period.

The time changes between 5 and 180 minutes in 5-minute units. ◀◀ or ▶▶ is also available.

5 Press ENTER or ||.

6 Prepare the source.

To listen to a CD, press CD and load the disc.

To listen to a tape, press TAPE/REV MODE and load the tape.

To listen to a radio broadcast, press TUNER/BAND and tune to the desired station.

To record from a radio broadcast, press TUNER/BAND and tune to the desired station, and load the tape to be recorded on.

7 Adjust the volume and tone, then turn off the unit.

The unit turns on with the selected source at the specified timer-on time, and turns off after the specified timer-activated period.

NOTE

- If you use the unit after setting the timer, repeat steps 6 and 7.
- Timer recording is available only when the source is TUNER.

To check the timer setting

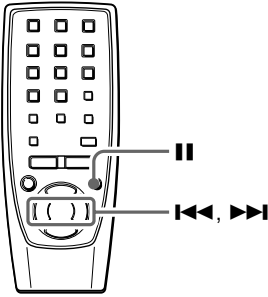
- 1 Press TIMER twice or three time. The timer-on time is displayed.
- 2 Press ENTER. The timer-activated period is displayed.
- 3 Press ENTER to restore the display.

To cancel the timer standby mode

Press TIMER repeatedly so that “⊕” or “⊖ REC” disappears.

To reset the timer

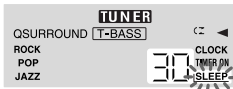
Repeat all the steps above.



SETTING THE SLEEP TIMER

The unit can be turned off automatically at a specified time.

- 1 Press **SLEEP**.
- 2 Within 4 seconds, turn **VOLUME/TIMER** to specify the timer-activated period.
The time changes between 5 and 180 minutes in 5-minute units. **◀◀** or **▶▶** is also available.



To check the remaining timer-activated period
Press **SLEEP** once. The remaining time until the power is turned off is displayed for 4 seconds.

To cancel the sleep timer
Press **SLEEP** twice so that "OFF" is displayed.

Simple sleep timer setting
Press **SLEEP** while the power is off. The unit is turned on with the last function, and the sleep timer is automatically turned on with the 30-minute setting. Select the function, if needed, and start playback.

Maintenance

To clean the cabinet

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

To clean the heads

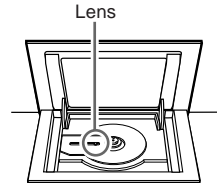
- When the tape heads are dirty;
- high frequency sound is not emitted
 - the sound is not adequately high
 - the sound is off-balance
 - the tape cannot be erased
 - the tape cannot be recorded on

After every 10 hours of use, clean the tape heads with a head cleaning cassette.
Use separately sold dry-type or wet-type cleaning cassette.

Refer to the instructions of the cleaning cassette for details.

To clean the lens

Use a cotton swab slightly moistened with cleaning fluid. Wipe gently from the center to the edge.



En



As an ENERGY STAR® Partner, AIWA has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAUTION

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

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