

KENWOOD

MICRO HI-FI COMPONENT SYSTEM

HM-332

INSTRUCTION MANUAL

KENWOOD CORPORATION



B60-4726-08 (EN)

2 Before applying power

⚠ Caution : Read this page carefully to ensure safe operation.

Units are designed for operation as follows.

U.S.A. and Canada **AC 120 V only**
Australia **AC 240 V only**

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

For the United Kingdom

Factory fitted moulded mains plug

1. The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.
2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer.
If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

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

Blue : Neutral
Brown : Live

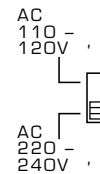
Do not connect those leads to the earth terminal of a three-pin plug.

*AC voltage selection

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

AC voltage selector switch

Move switch lever to match your line voltage with a small screwdriver or other pointed tool.








Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precautions

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

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

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

**CLASS 1
LASER PRODUCT**

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

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Special features

CD text information display

When discs conforming to CD-TEXT are played with this unit, the text information recorded on the CD (disc name or titles) is displayed automatically. → 13
 Some CDs conforming to CD-TEXT may not display text information.
 Up to 1000 letters may be displayed. If the CD exceeds 1000 letters, "TEXT MEMORY FULL" will be displayed.

Convenient recording features

Versatile recording features are provided, allowing the user to select desired one for each purpose. → 34
 ● One-touch recording : Pressing a single key starts recording of all tracks or a single track in a CD. → 35
 ● Program recording : Your favorite tracks can be recorded in any desired order.

Convenient timer features

In addition to the 2-program timer, the timer also provides the following convenient features. → 41
 ● AI timer : When timer playback starts, the volume level increases gradually until a certain level is reached. → 39
 ● O.T.T. : Timer playback which occurs only once and only for an hour can be programmed by simply setting the start time. → 42
 ● Sleep timer : Power of the unit can be switched off automatically after the set time has elapsed. Designed for example for falling asleep while listening to music in the night time, etc.
 O.T.T.(Operate easy-To-use Timer)

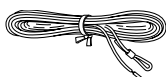
Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost. Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage. We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

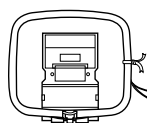
Accessories

Please confirm that the following accessories are present.

FM indoor antenna (1)

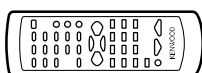


AM loop antenna (1)

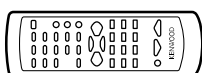


Remote control unit (1)

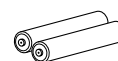
Europe and U.K



Other countries



Batteries (R6/AA) (2)



6 System connection

Connection of the system accessories

This figure shows the method of connection between the main unit and provided accessories.

CAUTION Note on Connection

Connect the components as shown in the diagram.
Only plug the power cord into a power outlet once connections are completed.

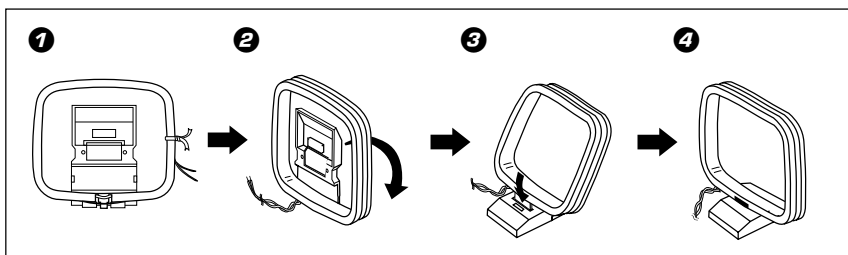
Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". → 45

AM loop antenna

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

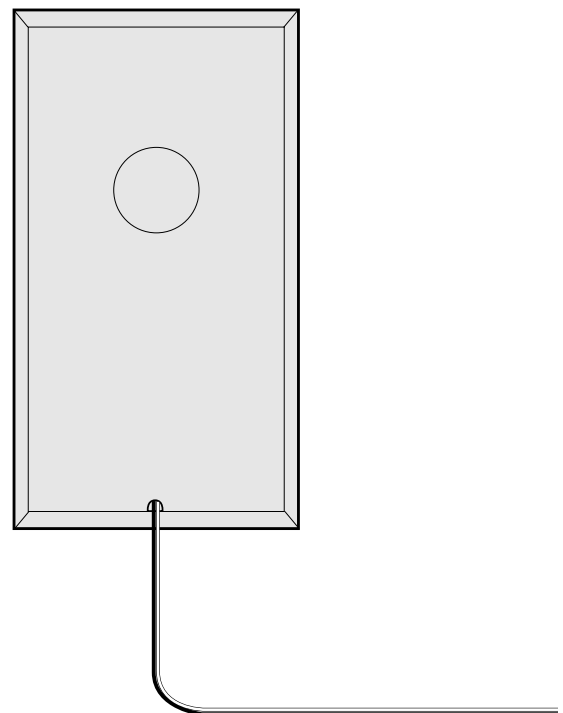
Preparation section



AM loop antenna

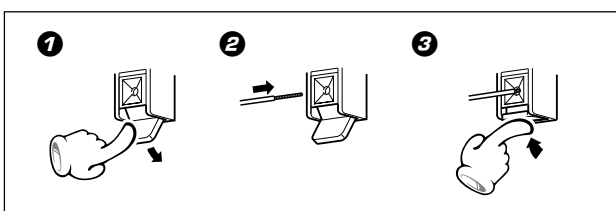


Speaker (Right)



1. Never short-circuit the "+" and "-" speaker cords.
2. If the "+" and "-" polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc.
3. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
4. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

Main Unit



CAUTION
 Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.

- Do not place any objects impairing heat radiation onto the top of unit.
- Leave a space around the unit (from the largest outside dimension including projection) equal or greater than, shown below.

Top panel : 50 cm Back panel : 10 cm

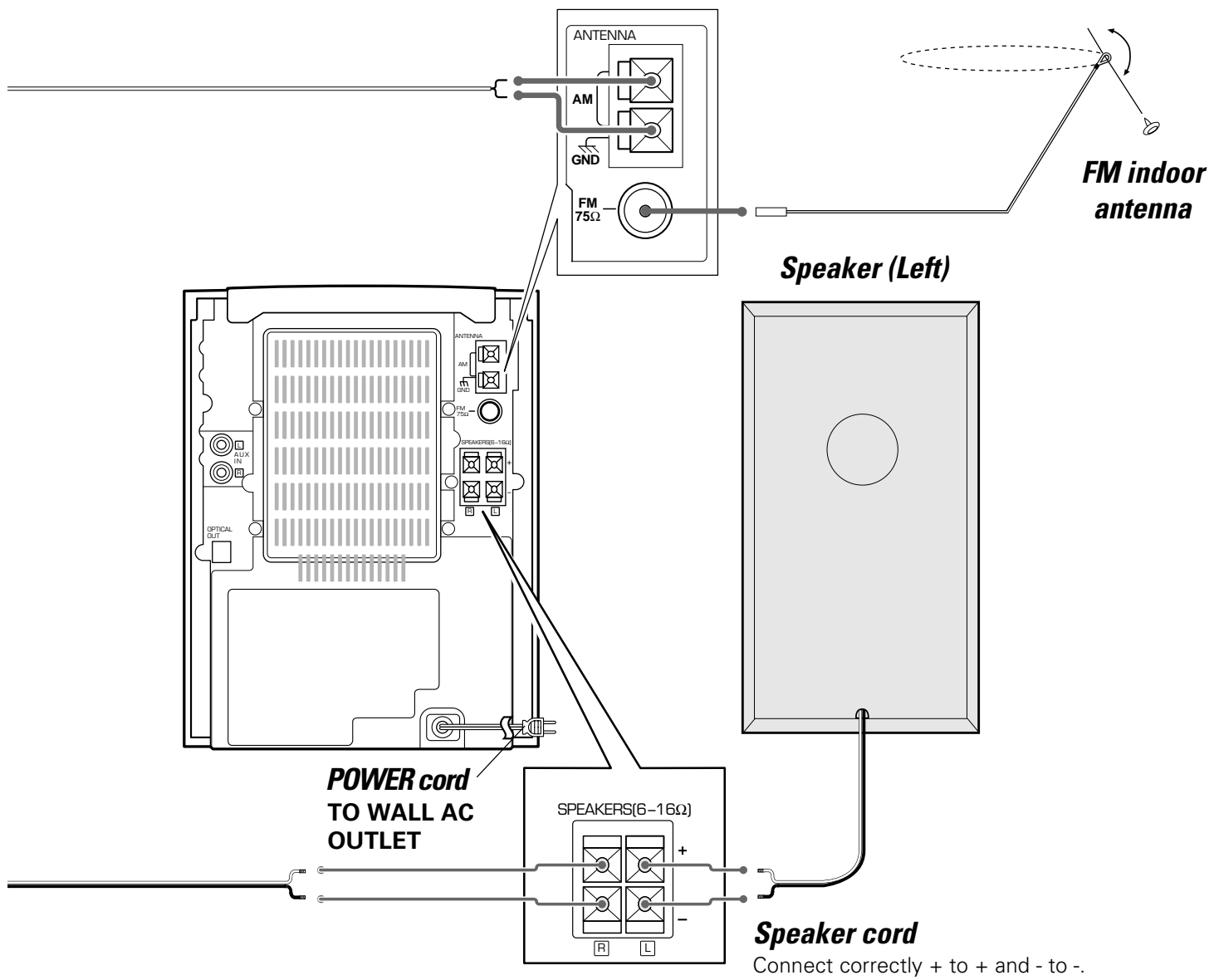
CAUTION
 Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.

- Do not place any objects impairing heat radiation onto the top of unit.

FM indoor antenna

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

- 1 Connect the antenna to the antenna terminal.
- 2 Locate the position providing good reception condition.
- 3 Fix the antenna.

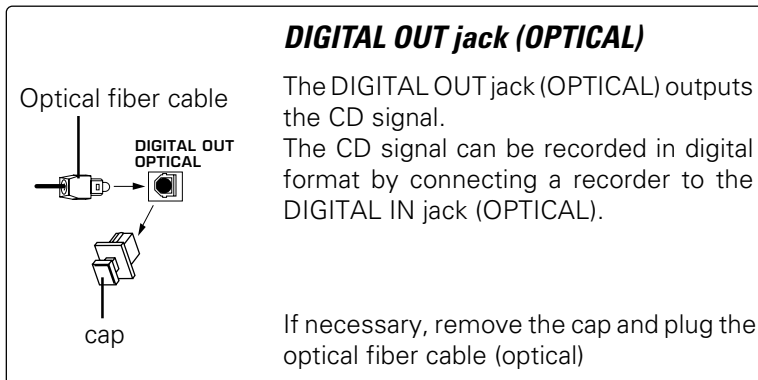


Speaker cord
 Connect correctly + to + and - to -.

Connection of other accessories (Commercially available parts)

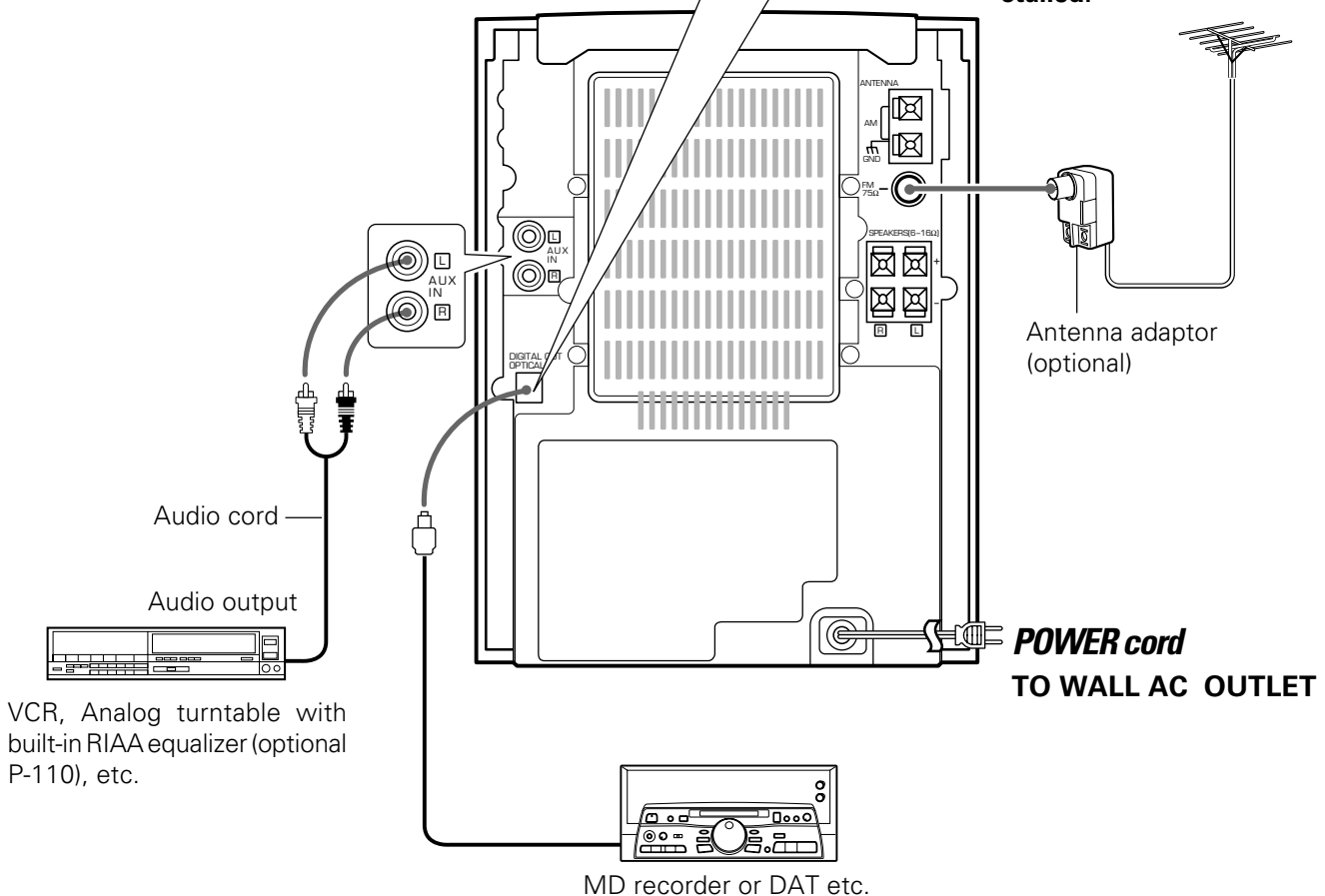
CAUTION Note on Connection

Connect the components as shown in the diagram.
Only plug the power cord into a power outlet once connections are completed.



FM outdoor antenna

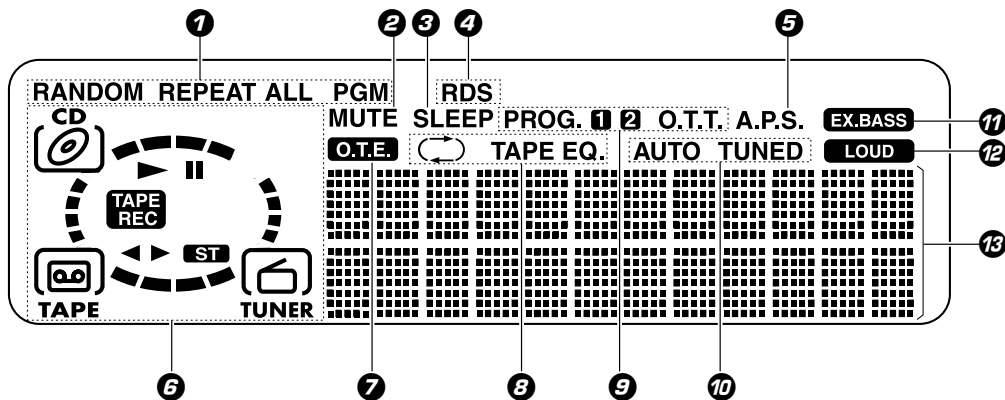
Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75Ω terminal. Please remove the indoor antenna after an outdoor antenna has been installed.



1. In case an associated system component is connected, also read the instruction manual of the component.
2. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
3. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

Display

(The displays given in this manual are approximations only. They may differ from what actually appears on the display.)



- ① Indication related to CD
- ② MUTE indicator
- ③ SLEEP indicator
- ④ RDS indicator (except for some areas)
- ⑤ Auto Power Save indicator
- ⑥ Selected selector indicator
- ⑦ O.T.E. (ONE TOUCH EDIT) indicator
Appears during one-touch recording.
- ⑧ Reverse mode and TAPE equalizer (TAPE EQ.) indicators

- ⑨ Timer-related indicators
- ⑩ Tuner-related indicators
- ⑪ EX.BASS indicator
- ⑫ LOUD (Loudness) indicator
- ⑬ Character information display section

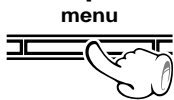
Shows character information including the input selection, volume level and disc/track title. Frequency indication, time indication, track No., program No., etc.

Display panel control

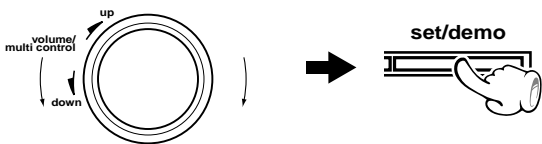
Controlling the BACK LIGHT

The brightness of the main unit display can be adjusted.

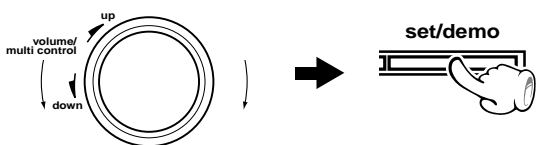
- ① Turn power ON and press the menu key.



- ② Rotate the volume/multi control knob to select "BACK LIGHT?" and press the set/demo key.



- ③ Rotate the volume/multi control knob to select the desired light brightness ("High" or "Low") and press the set/demo key.



- When the SLEEP timer has been set, the light is "LOW" regardless of the BACK LIGHT setting.

AUTO POWER SAVE function

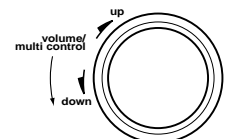
When the unit is ON and the unit is left for 30 minutes with CD and TAPE not operating, the unit is switched off automatically by this function. This is convenient when you forgot to switch off the unit. This function can be activated or deactivated by the following operation.

- ① Select "A.P.S. SET?".



(Press the set/demo key while the "?" mark is blinking.)

- ② Select.

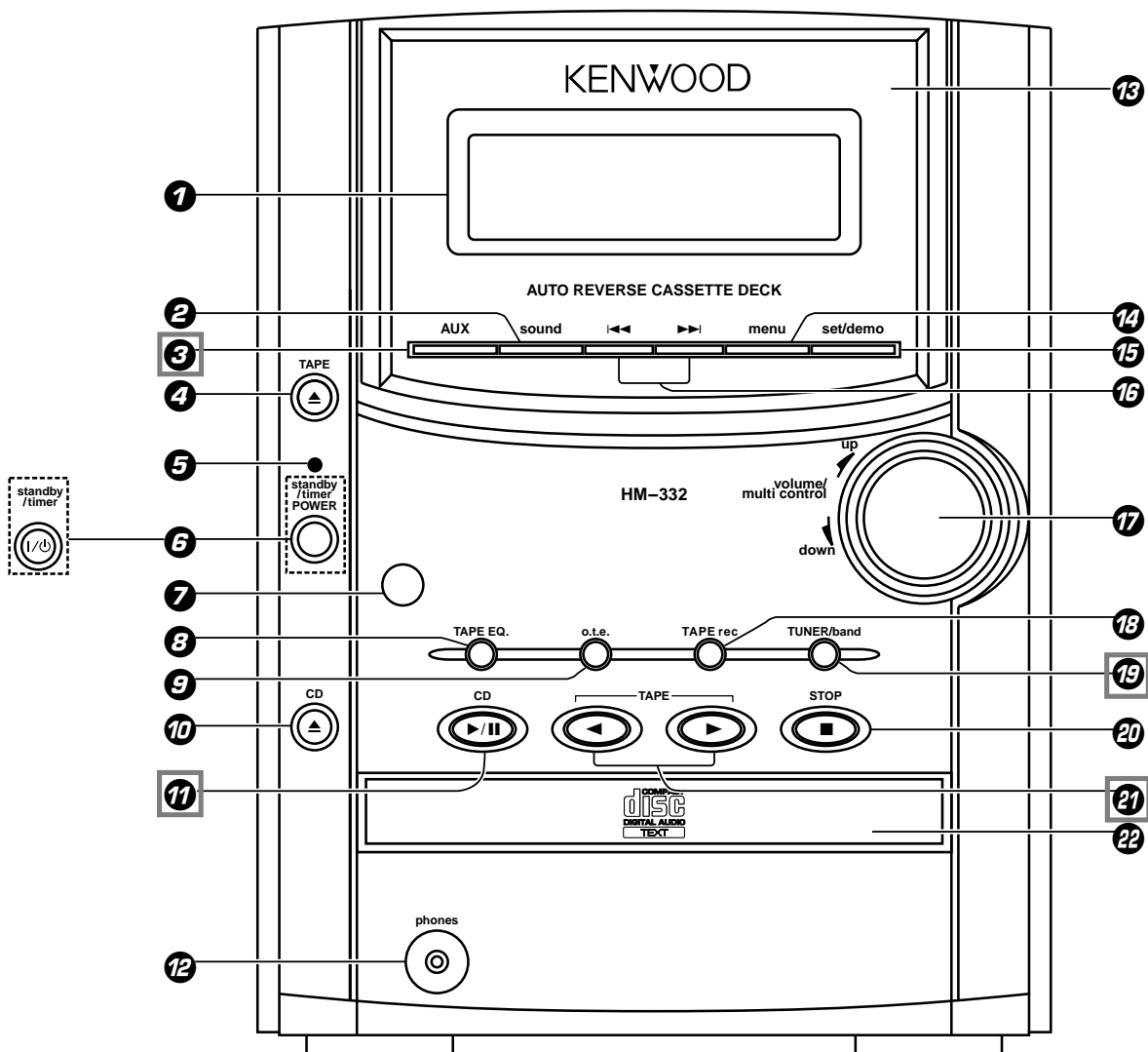


- ③ Set it.




- When the TUNER or AUX input is selected, APS operates only when the volume is set to zero or when MUTE is on.

Main unit



About the one-touch operation function

This unit incorporates the one-touch operation function for the user's convenience. With this function, pressing any key enclosed in  while the unit is in standby mode immediately start playback (or reception).

In regard to demonstration

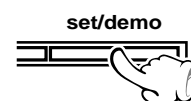
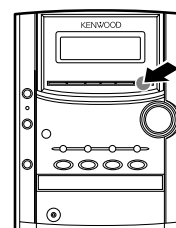
This unit is equipped with a demonstration function (only display). The demonstration consists of sequential change of display and indicators showing the operations, but the audio itself does not change. The demonstration function can be cancelled as follows.

DEMO OFF (To cancel demonstration):

Press the **set/demo** key when DEMO is ON.

DEMO ON (To execute demonstration):

After turning power ON, press and hold the **set/demo** key (for more than 2 seconds).



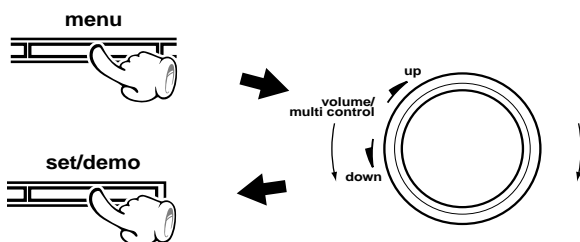
- This operates automatically when a power failure has occurred or the plug of the power cable has been pulled while the power was ON.

- 1 Display**
- 2 sound key** → 15
Used for switching the EX.BASS play and LOUDNESS play.
- 3 AUX key** → 37
Press to listen to the input source connected to AUX (analog external).
- 4 TAPE ▲ key** → 18
Press to open or close the cassette holder.
- 5 Standby / timer indicator**
Light in standby mode of power.
Red : Normal standby mode
Amber : Timer standby
Extinguished : Power ON mode
- 6 POWER (I / ⏻) key (For U.S.A. and Canada)** → 14
I / ⏻ (POWER) key (For other countries) → 14
- 7 Remote sensor** → 13
- 8 TAPE EQ. key** → 19
Press to switch the tape equalizer on.
- 9 o.t.e key**
These keys are used for recording of a CD onto tapewith a one-touch operation.
Press either key during CD playback to record the currently played track onto tape. Press in stop mode to record the entire CD onto tape. → 34 → 35
- 10 CD ▲ key** → 16
Press to open or close the CD tray.
- 11 CD ▶/|| key** → 16
Press to select the CD input and start CD playback.
Press during CD playback to let it pause temporarily.

- 12 phones jack** → 15
Headphones with a stereo mini plug (optional) can be connected.
- 13 Cassette holder**
Press the TAPE ▲ key to open or close.
- 14 menu key**
Press to switch the function of the **volume/multi control** knob.
This key is also used when setting the time of the day. → 38
- 15 set/demo key**
Press to set or enter an item selected with the **volume/multi control** knob. → 19 → 36
Used for demonstration ON/OFF. → 10
- 16 Skip/search (◀◀/ ▶▶) keys** → 17
During CD operation :
Press to skip tracks in the forward or backward direction.
During TAPE operation : → 19
Press to search in the forward or backward direction.
During TUNER operation : → 20
Used to select a preset station.
- * 17 volume/multi control knob** → 11
Normally this is used for volume adjustment.
- 18 TAPE rec key** → 25
Press to start recording. Pressing the key during recording stops it after leaving a non-recorded space (blank) of about 4 seconds.
- 19 TUNER/band key** → 20
The received broadcasting band is switched.
Press to select the TUNER input.
- 20 ■STOP key**
Press in power standby mode to display the clock.
- 21 TAPE ◀▶ key** → 18
Press to select the TAPE input and play a tape.
- 22 CD tray**
Press the CD ▲ key to open or close.

*** About the volume/multi control knob**

After selecting the function of this knob with the menu key, select the desired control item by turning the volume/multi control knob.
To set or enter the setting of the selected item, press the set/demo key.



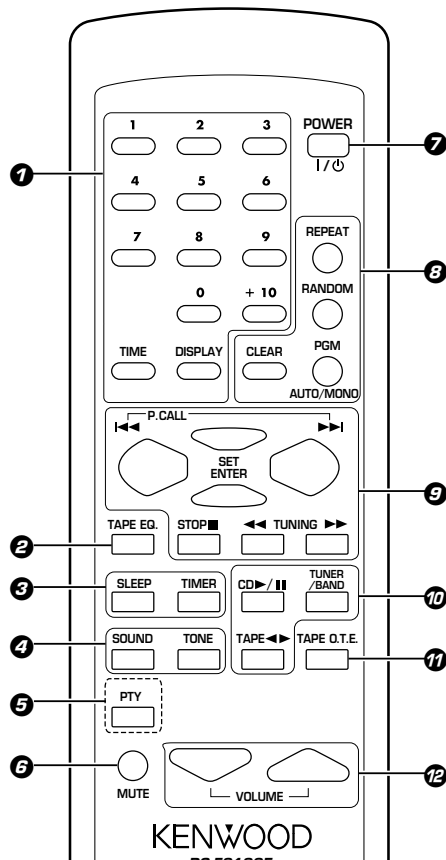
Turning the knob switches the display contents.

- ▶ **TAPE RVS.** ? → 19
- ▶ **AUTO PRESET (or A.MEMORY ?)** → 22
(Only when the TUNER input is selected)
- ▶ **AUX INPUT** ? → 37
(Only when the AUX input is selected)
- ▶ **BALANCE** ? → 36
- ▶ **BACK LIGHT** ? → 9
- ▶ **A.P.S. SET** ? → 9
- ▶ **TIMER SET** ? → 39

● The function of the control knob returns to the normal mode when it has not been operated for 20 seconds.

12 Operation of remote control unit

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



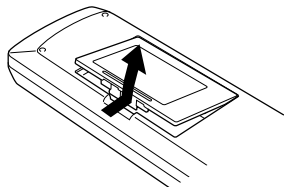
Infrared ray system
 Model : RC-F0100E (For Europe and U.K.)
 : RC-F0100 (For other countries)

- 1 Numeric keys** → 17 → 21 → 26
 These are used to select CD tracks and as preset call keys for the tuner.
- TIME key** → 17
 Press to switch the time information displayed during CD playback.
- DISPLAY key** → 13
 Used for scroll display of the text informations of CD-TEXT compatible disc.
- 2 TAPE EQ. key** → 19
 Press to switch the tape equalizer on.
- 3 SLEEP key** → 42
 This is used to set the sleep timer.
- TIMER key** → 42
 Used to select the timer.
- 4 SOUND key** → 15
 Used for switching the EX.BASS play and LOUDNESS play.
- TONE key** → 36
 This is used to adjust the tone.
- 5 RDS-related keys (Only some areas)**
- PTY key** → 30
 Used at the time of program type detection.
- 6 MUTE key** → 15
 This is used to suppress the sound temporarily.

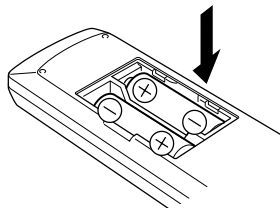
- 7 POWER (1/⏻) key** → 14
 The system is switched ON and STANDBY.
- 8 Keys related to CD**
- REPEAT key** → 27
 This is used for repeated playback.
- RANDOM key** → 28
 Playback of the CD tracks in random order.
- PGM/AUTO/MONO key** → 26
 This is used to program the track sequence.
- During TUNER operation:** → 21
 Used to switch the tuning mode between "AUTO" (auto tuning, stereo reception) and MONO (manual tuning, monaural reception).
- CLEAR key** → 26
 The programmed track sequence is cleared.
- 9 Basic operation keys**
- ◀◀P.CALL▶▶ keys** → 17 → 28
During CD operation: → 17 → 28
 Press to skip tracks in the forward or backward direction.
- During TUNER operation:** → 21
 Used to select a preset station.
- RDS operation (Only some areas)** → 30
- ◀◀TUNING▶▶ keys**
- During CD or TAPE operation:** → 17
 Press to search in the forward or backward direction.
- During TUNER operation:** → 20
 Press to select a radio station.
- SET key** → 22
 Press to set or enter an item selected with the "VOLUME/multi control".
- ENTER key** → 21
 It is used to enter the preset station memory in the tuner.
- STOP key**
- 10 TAPE ◀▶ key**
- CD ▶/II key**
- TUNER/BAND key**
- 11 TAPE O.T.E. key** → 34
 These keys are used for recording of a CD onto tapewith a one-touch operation.
 Press either key during CD playback to record the currently played track onto tape. Press in stop mode to record the entire CD onto tape.
- 12 VOLUME control keys** → 14 → 36
 Press to control the volume.
 Press to control the tone.

Loading batteries

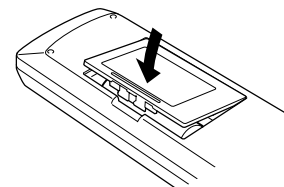
① Remove the cover.



② Insert batteries.



③ Close the cover.

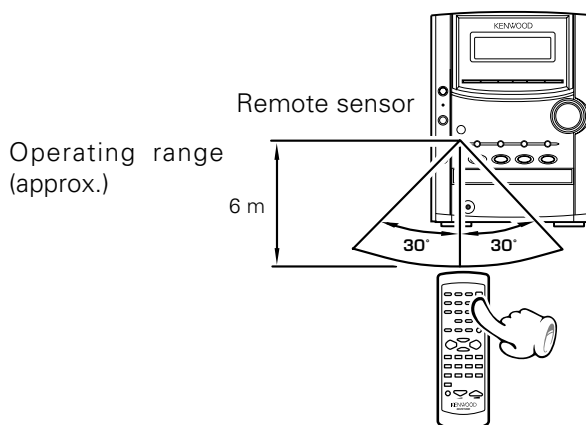


- Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

After plugging the power cord of this unit, press the **POWER** (I/⏻) key of the remote control unit to turn the system ON. When the system is turned ON, press the key of the function to be operated.

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



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

In regard to the DISPLAY key

When a title recorded in a CD-TEXT disc is too long to be displayed in the dot display, press this key to scroll the display and view the characters which has not be displayed.



Pressing the key during stop scrolls the disc title.

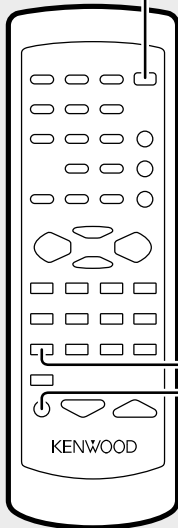
WORLD MUSIC

Pressing the key during playback scrolls the track title.

NEWYORK NEWY

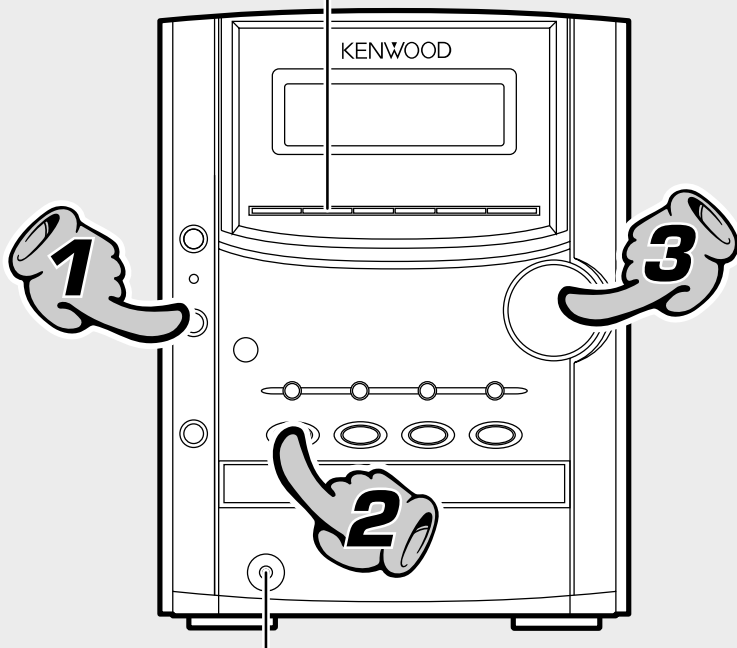
Bass and treble compensation

The system is switched ON and STANDBY.

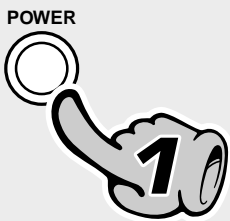


Muting the sound temporarily

Bass and treble compensation



Listening through headphones

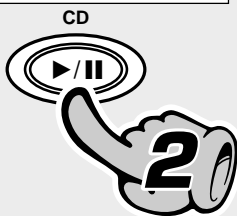


1. Set the POWER (I/⏻) key to ON.

When the POWER (I/⏻) key is pressed while the unit is ON switches it OFF. The standby/timer indicator lights red or amber.

- Pressing the CD ▶/II, AUX, TAPE ◀▶ or TUNER/band key also turns power on and starts playback (reception) of the corresponding input. (One-touch operation)
- When the CD or TAPE input is selected while the corresponding disc or tape has been loaded, it immediately starts to play.

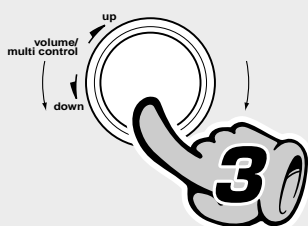
Example:
To select the CD input



2. Selecting the desired output.

CD	→ 16
TAPE	→ 18
TUNER (Broadcasts)	→ 20
AUX (External input)	→ 37
"Adjusting the AUX input level"	→ 37

- Pressing the CD ▶/II, AUX, TAPE ◀▶ or TUNER/band key selects the corresponding input.



3. Volume adjustment.

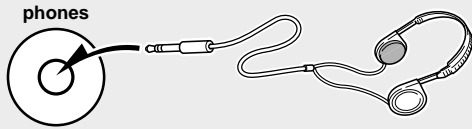
- The display shows a reference value.

The volume decreases

The volume increases

Listening through headphones

Insert the headphone plug into the "phones" jack.



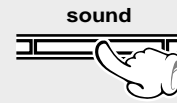
- Headphones with a stereo mini plug can be connected.
- The sounds from all speakers are cut off.

Muting the sound temporarily (Remote control unit only)



- Press again to resume the original volume.
- This is also cancelled when the volume is changed.

Bass and treble compensation



Each press switches the modes as follows.

- ① "EX.BASS" lights.
The lowest and highest frequencies are enhanced regardless of the current volume level.
- ② "LOUD" (Loudness) lights.
The lowest and highest frequencies are enhanced according to the current volume level. (Effective during low-volume listening.)
- ③ Both indicators off.
Canceled.

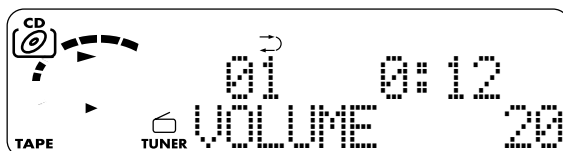
- Adjusting the tone while the "LOUD" or "EX.BASS" indicator is lit turns it off and cancels the sound enhancement mode. → 36

Standby mode

While the standby/timer indicator of the unit is lit in red or amber, a small amount of current flows to back up the memory. This condition is called standby mode.



When CD has been selected.

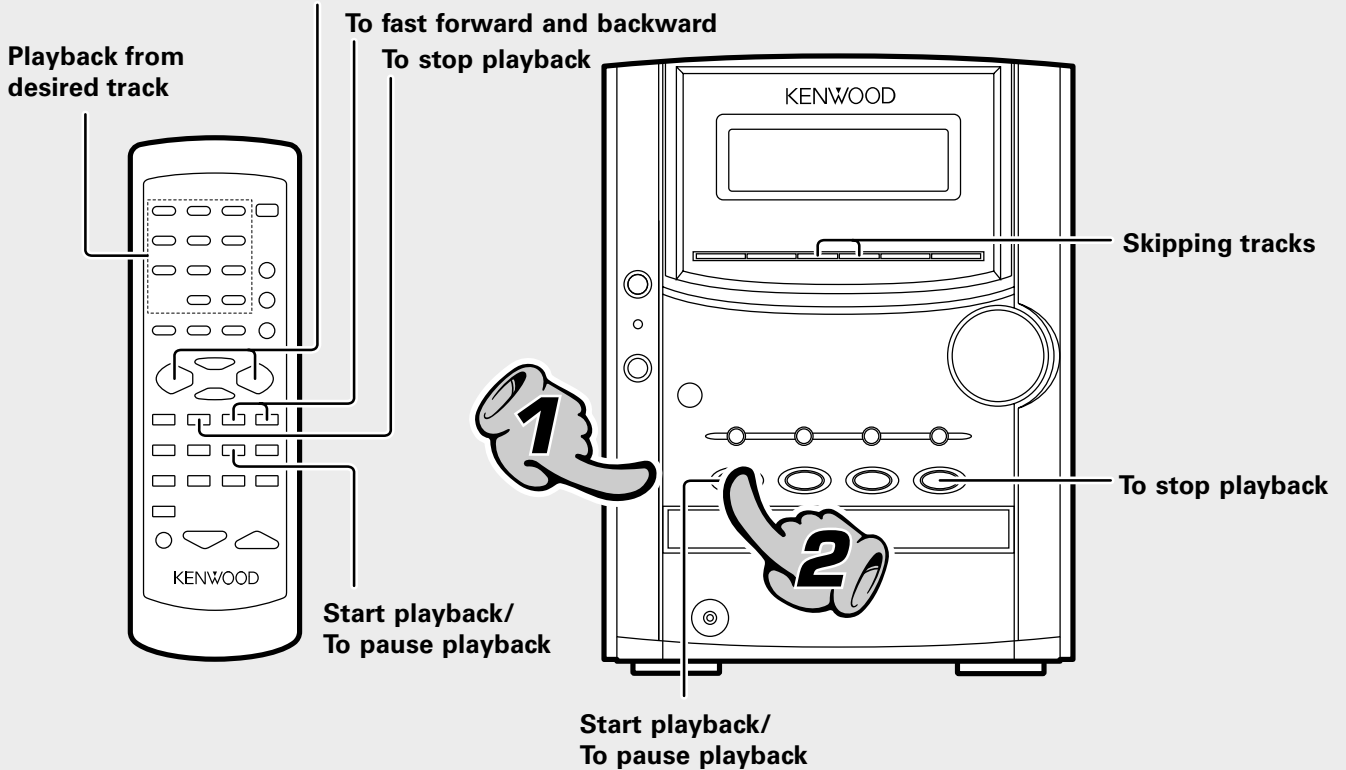


Volume display



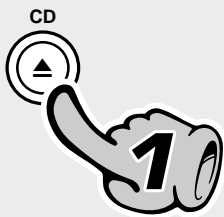
When a disc is placed into the CD player in advance, the unit will be switched on automatically by pressing the CD ►/|| key, and playback will start.

Skipping tracks

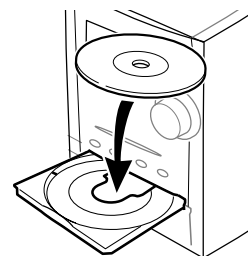


Basic section

1. Load a disc.



- ① Press the CD▲ key.
- ② Place a disc.
- ③ Press the CD▲ key.



The label side must be on top.

2. Start playback.





In regard to CD-TEXT

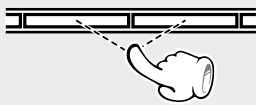
When discs conforming to CD-TEXT are played with this unit, the text information recorded on the CD (disc name or titles) is displayed automatically.




Some CDs conforming to CD-TEXT may not display text information.

Up to 1000 letters may be displayed. If the CD exceeds 1000 letters, "TEXT MEMORY FULL" will be displayed.



Skipping tracks

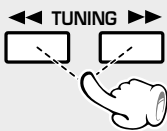
To skip backward   To skip forward



- The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
- When the  key is pressed once during playback, the track being played will be played from the beginning.
- Operation also is possible with the keys  and  of the remote control unit.

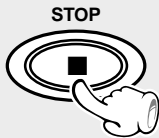
To fast forward and backward (Remote control unit only)

Backward search  TUNING  Forward search



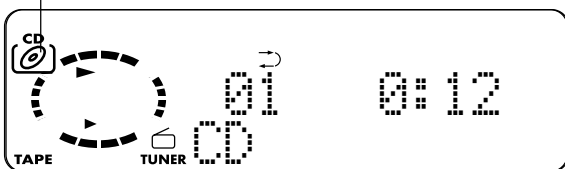
- Playback starts from the position where the key is released.

To stop playback



- Do not touch the played side of disc.
- Be sure to place a disc horizontally. Placing it with an inclination will result in malfunction.

Displayed when a disc is loaded.



- Titles are displayed for discs conforming to CD-TEXT.
- After a few seconds, play starts from track No.1.

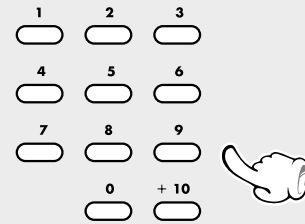
To pause playback











- Each press pauses and plays the CD alternately.

Playback from desired track (Remote control unit only)

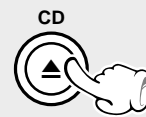
Select the desired track No.



Press the numeric keys as shown below....

To select track No. 23 :   
 To select track No. 40 :     

Eject the CD



- The CD tray opens.

Time display on CD player

(Remote control unit only)

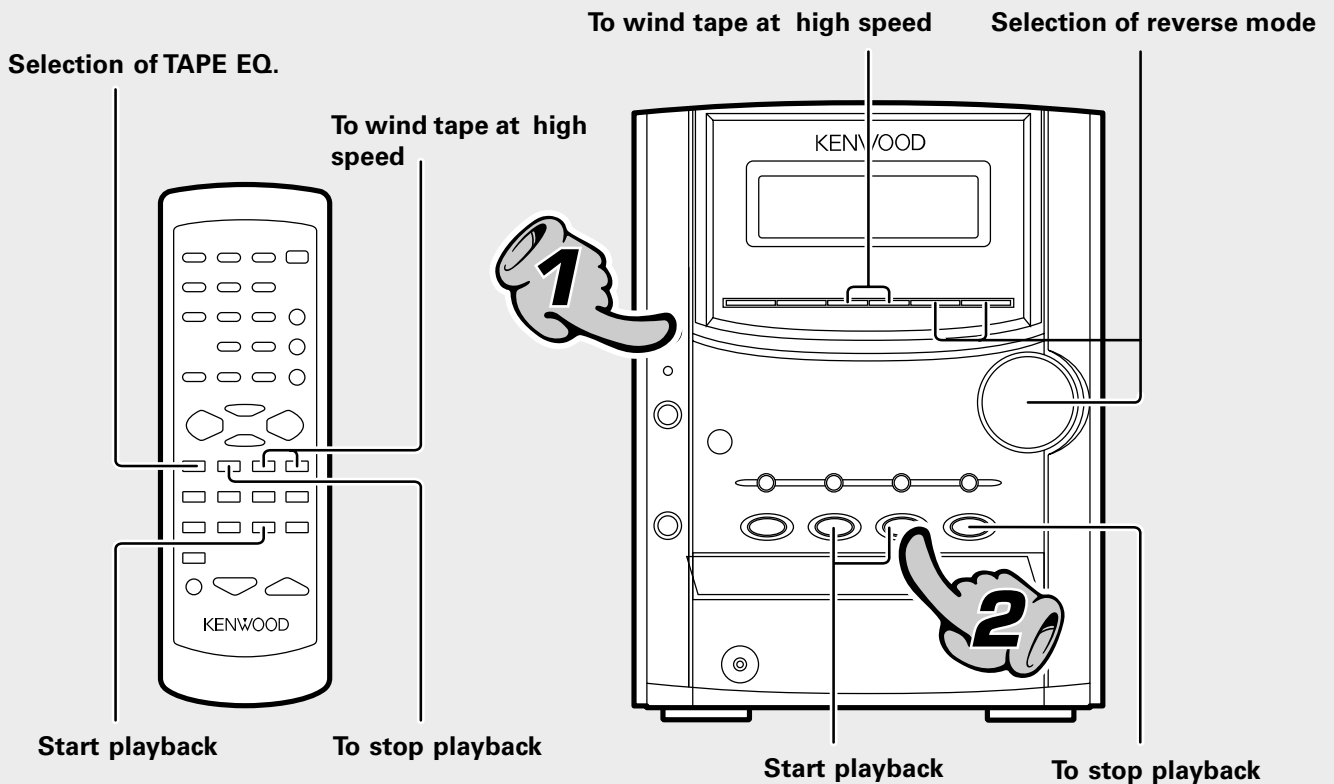
Each press of the TIME key changes the displayed contents.

- ① 1:23 (Elapsed time of track being played)
- ② -2:37 (Remaining time of track being played)
- ③ 23:45T (Elapsed time of entire disc)
- ④ -36:15T (Remaining time on entire disc)

- Only time information ① and ② can be displayed during single-track repeated playback or random playback.

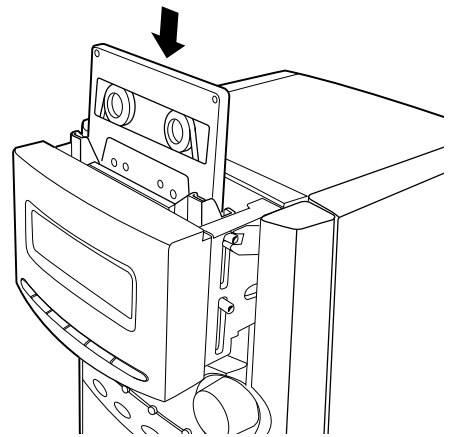


If you load a tape in the cassette deck in advance while the power is off, pressing the TAPE ◀▶ key turns power on automatically and starts the tape playback.



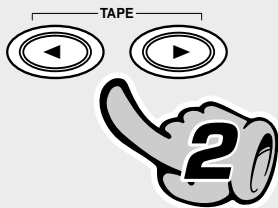
1. Load a cassette tape.

- ① Press the TAPE ▲ key.
- ② Insert a tape.
- ③ Press the TAPE ▲ key.



2. Start playback.

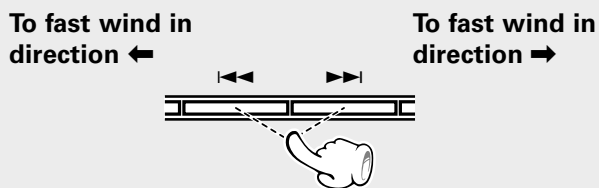
Press the TAPE ◀▶ key of the desired direction.



Transport direction indicators

Indicates the tape transport direction during playback or recording by lighting of ◀ or ▶. This direction is the direction stored in memory when the tape was last stopped.

To wind tape at high speed



- Press the **■STOP** key to stop fast winding.

Selection of TAPE equalizer (TAPE EQ.)

(Remote control unit only)

When playing a tape prerecorded with Noise Reduction system (such as the DOLBY NR) ON, be sure to set the "TAPE EQ." ON for playback.



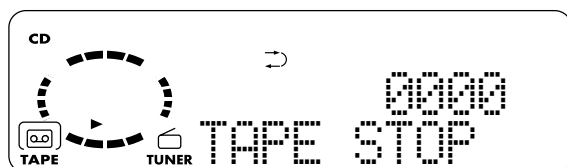
Lit when "TAPE EQ." is ON



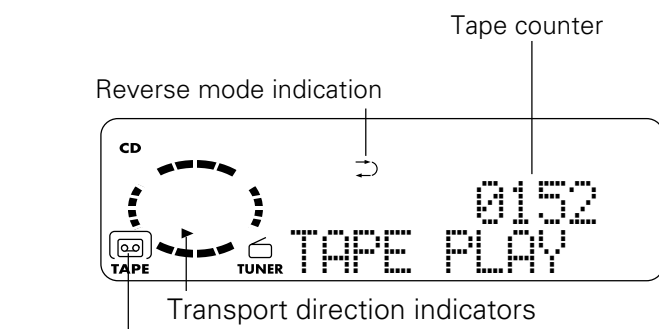
Each press switches the modes as follows.

- ➔ ① "TAPE EQ." ON TAPE equalizer is used.
- ➔ ② "TAPE EQ." OFF TAPE equalizer is not used.

- Select the "TAPE EQ." ON mode according to the recording condition of the tape.

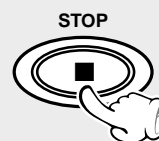


- Normal (TYPE I), high (TYPE II), or metal (TYPE IV) tape selection is set automatically.
- Remove tape slack before loading.



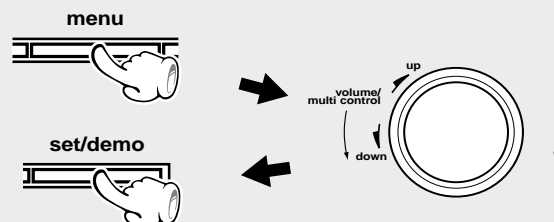
Displayed when the deck is loaded with a tape.

To stop playback



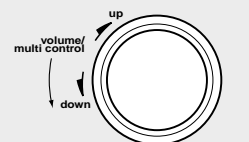
Selection of reverse mode (Main unit only)

- ① Select "TAPE RVS. ?".



(Press the set/demo key while the "?" mark is blinking.)

- ② Select.



- ➔ ① "↔": (REVERSE)
Both sides are played back (recorded), and then the tape stops.
- ➔ ② "∞": (ENDLESS)
Both sides are played back endlessly.
(The tape stops after recording onto both sides.)
- ➔ ③ "→": (ONE-WAY)
Only one side is played back (recorded), and then the tape stops.

(The initial setting is "↔" (REVERSE).)

- ③ Set it.



A tip for use of the tape counter

The tape counter is set to "0000" when a cassette tape is loaded. By writing down the counter reading in case you want to interrupt recording (playback) in the middle of the tape, the memo will be helpful as a reference for locating the same position when continuing the recording (playback) the next time. The tape counter figure decrements during recording or playback of the back side (while the ◀ tape transport indicator is lit). To set the tape counter to "0000", open the cassette holder once. Then the counter will be reset.

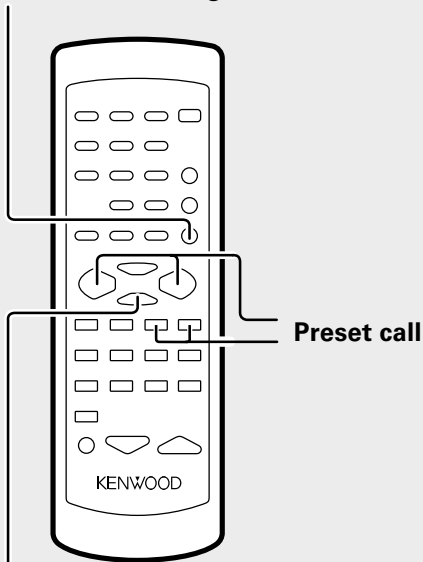
Do not use a cassette with more than 90-minute recording time, for the tape used with such a cassette is very thin and tends to cause troubles such as entanglement around the pinch roller or cutting of tape.

Up to 40 radio stations can be preset in memory.



When the "TUNER/band" key is pressed, the unit will automatically be switched on and reception status will be reached.

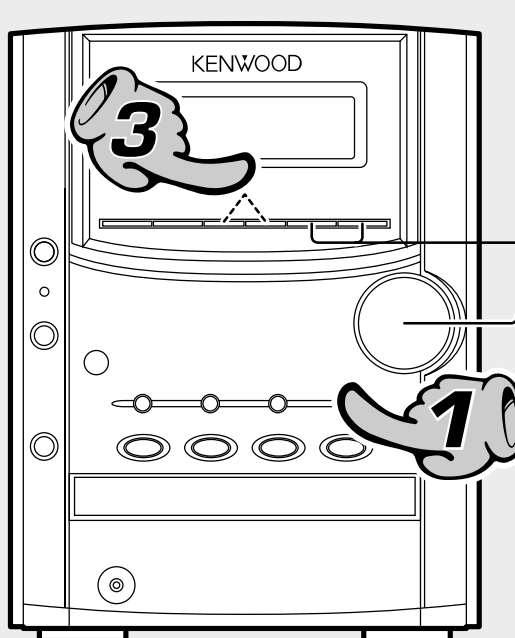
Auto/manual station switching



Preset call

One-by-one presetting

Collective presetting of stations



Basic section

TUNER/band



1. Press the tuner/band key.

Preset a radio station in memory.

- ① FM
- ② AM

2. Preset a radio station in memory (auto preset or auto memory).

Follow the procedure in "Collective presetting of stations (auto preset)" to preset automatically the tunable radio stations in your area. → 22

- Once stations are stored by auto preset, the present procedure is not required from the next time, unless you move of house or re-execute presetting of all tunable stations.



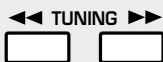
3. Tuning (Preset Call)

- If radio stations have already been stored with auto preset or manual preset, select a station using the **◀◀P.CALL▶▶** key. Each press of the same key switches the preset stations in sequence.
When ▶▶ is pressed: 1→2→3 ... 38→39→40→1...
When ◀◀ is pressed: 40→39→38 ... 3→2→1→40...
- To select a preset station from the remote, use the **◀◀P.CALL▶▶** key or numeric keys.

When no stations have been memorized

Auto tuning : The next broadcasting station will be received automatically each time this key is pressed.

Manual tuning : Press the **◀◀TUNING▶▶** key repeatedly until a station is received. Or hold either key and release it when the frequency of the desired station is received.



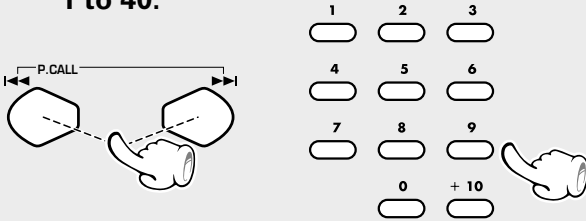
One-by-one presetting (manual preset)

① Press the ENTER key during reception.



(Proceed to step ② while "MEMORY" is lit.)

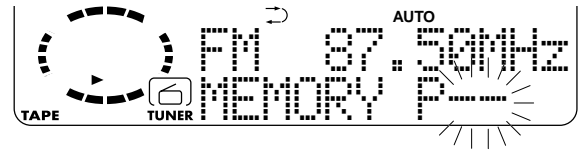
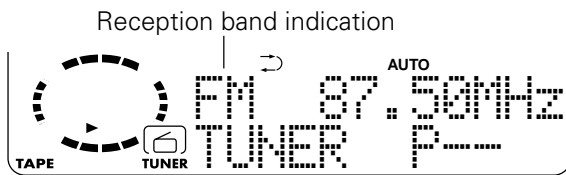
② Select one of the preset numbers from 1 to 40.



③ Press the ENTER key again.



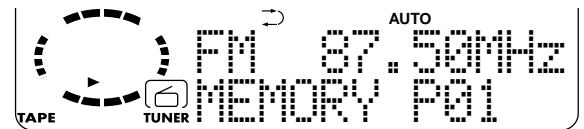
(Repeat steps ①, ②, ③ to preset other stations)



"MEMORY" lights (for approx. 20 sec.)

- A maximum of 40 stations of the band presently being received will be preset.

- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.



Tuning mode switching and reception mode (Remote control unit only)



Each press alternates the mode.

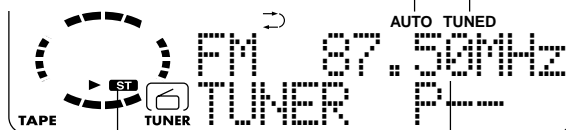
- ① "AUTO" lit (Auto tuning, stereo reception)
- ② "AUTO" not lit (Manual tuning, monaural reception)

Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

- Normally, use the **AUTO** (Auto tuning, stereo reception) mode.

The "TUNED" indicator lights when a station is received.

Lights at the time of automatic station selection.



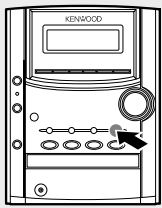
Lights during stereo reception

Frequency display

- When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.
- Preset stations can be called using the number keys on the remote control unit.

Collective presetting of stations (auto preset)

AUTO PRESET U.S.A., Canada, Australia and other countries
 AUTO MEMORY United Kingdom and Europe

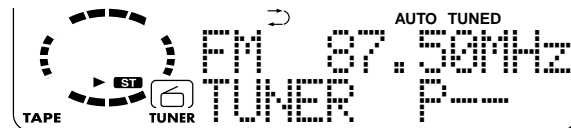
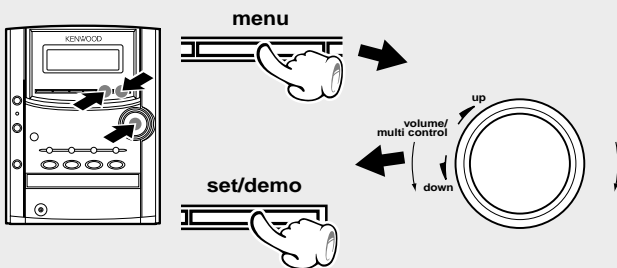


① Receive a broadcast.

TUNER/band



② Select "AUTO PRESET" or "AUTO MEMORY?".



- A maximum of 40 stations of the band presently being received will be preset.
- When there are many stations and the intended station has not been preset, please also use "One-by-one presetting (manual preset)".

Channel space setting

(Except for U.S.A., Canada, United Kingdom and Australia)

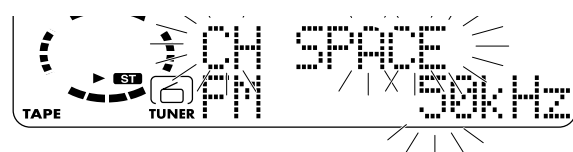
The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following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

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

- ① Turn power on.
- ② Press the TUNER/band key
- ③ Press the ■STOP key for more than 5 seconds.
- ④ Select the mode by using the ■STOP key.

Each press switches the space frequency alternately.

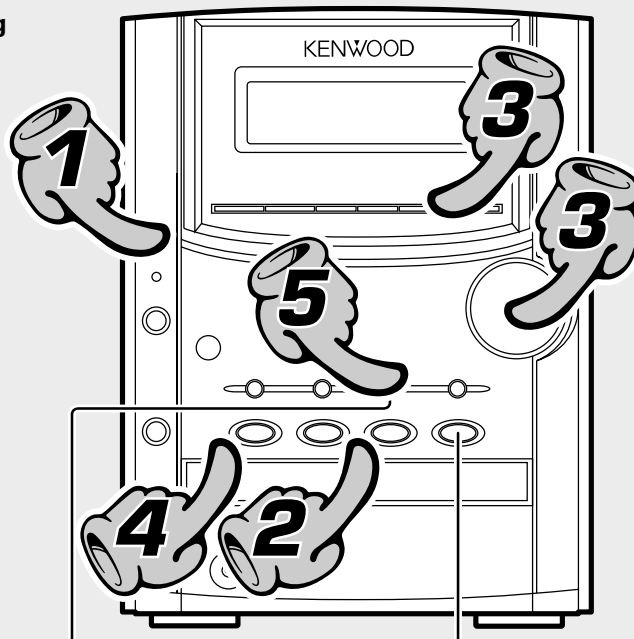
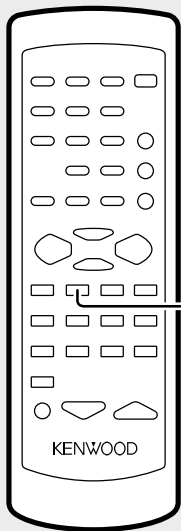
- ① "FM 50 kHz" (FM 50 kHz, AM 9 kHz)
- ② "FM 100 kHz" (FM 100 kHz, AM 10 kHz)



Blinks.

- ⑤ Establish the selection by pressing the set/demo key.

Stop the recording



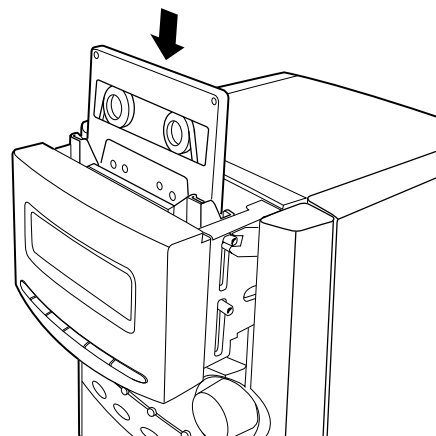
Pause the recording

Stop the recording



1. Load a tape in deck.

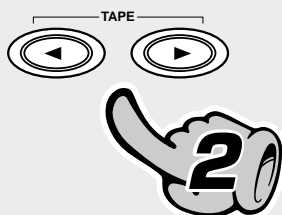
- ❶ Press the TAPE ▲ key.
- ❷ Insert a tape.
- ❸ Press the TAPE ▲ key.



- Differentiation between normal (TYPE I) and high (TYPE II) tape is set automatically.
- Remove tape slack before loading.

2. Select the tape transport direction.

To reverse the transport direction

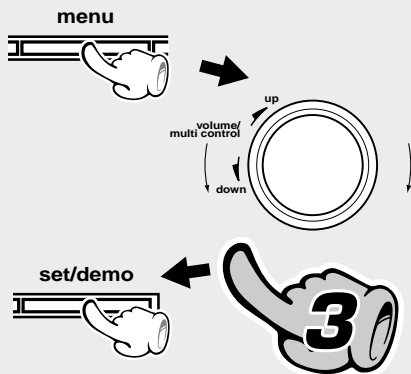


- ❶ Press the TAPE ◀▶ key corresponding to the desired direction.
- ❷ Stop playback.

- When recording is started, the tape is transported in the direction selected in this step.

Check the tape transport direction indicator.

- Wind the tape to the position where recording is to be started.



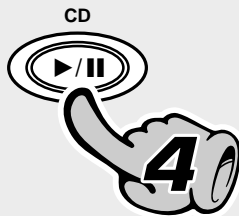
3. Set the recording condition.

Select the reverse mode. → 19

- The tape equalizer is defeated during recording.

Select an input source other than "TAPE"

Example:
To select the CD input



4. Select the source to be recorded.

CD
TUNER (Broadcasts)
AUX (External input)

"Adjusting the AUX input level" → 37



The character information display shows the recording input source.

- If a CD has already been loaded, it starts to play now. Press the **■STOP** key to stop it.



5. Start recording.

- 1 Press the **TAPE rec** key.
- 2 Play (or tune) the input source to be recorded.

- Recording stops automatically when the tape side(s) to be recorded have been fully recorded.

Pause the recording

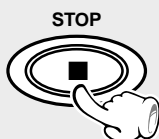


Blinks



- Press the **TAPE rec** key during recording. It stops after leaving a non-recorded blank of 4 seconds. (Press the key again to resume recording.)

Stop the recording



Note that this cassette deck cannot record onto Metal tapes.

Points in CD recording

When recording CD tracks onto a tape, if you leave the cassette deck in record-pause mode beforehand, the cassette deck recording can be started at the CD starts to be played.

- 1 Put the CD player in pause mode.
- 2 Select the track to be recorded with the **◀◀** or **▶▶** key.
(The CD player pauses at the beginning of the selected track.)
- 3 Put the cassette deck in Record-pause mode.
(Press **TAPE rec** key twice)
- 4 Start playing the CD.
(Recording starts)

- To stop recording, press the **■STOP** key.

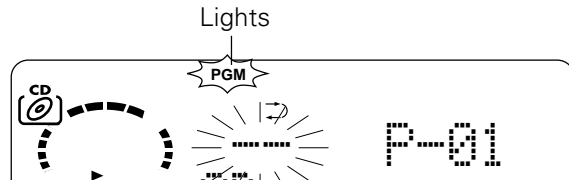
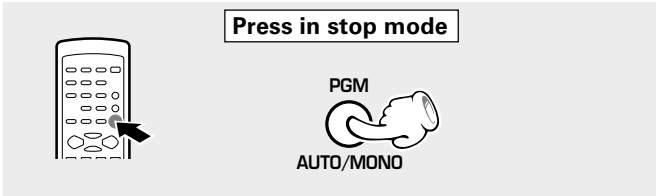
Do not use a cassette with more than 90-minute recording time, for the tape used with such a cassette is very thin and tends to cause troubles such as entanglement around the pinch roller or cutting of tape.

Listening in the desired sequence (program playback)

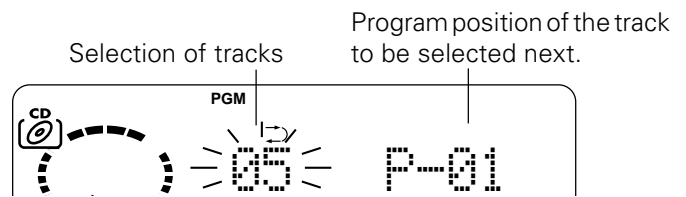
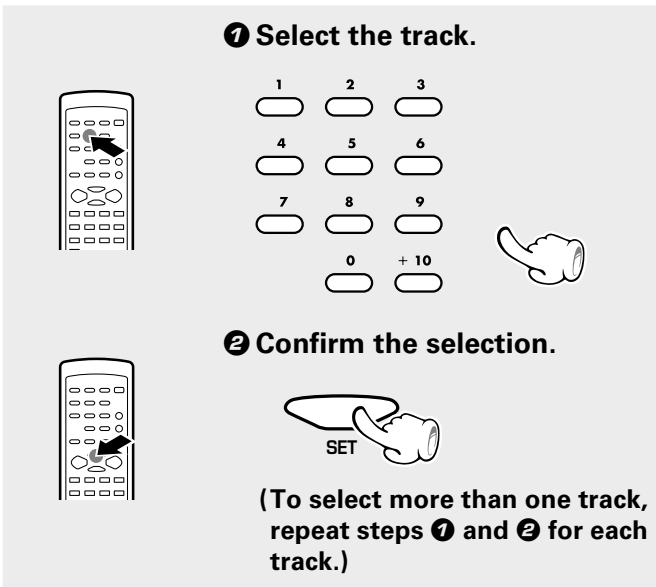
Use the following procedure to program desired tracks in a desired order. (up to 32 tracks)

Select the CD input.

1 Let the "PGM" indicator light.



2 Select track numbers in the order you want to play them.



Press the numeric keys as shown below....

To select track No. 23 : **[+10] [+10] [3]**

To select track No. 40 : **[+10] [+10] [+10] [+10] [0]**

- A track can also be selected using the **◀◀** or **▶▶** key.
- Up to 32 tracks can be programmed. When "**PROGRAM FULL**" is displayed, no more tracks can be programmed.
- If you made a mistake, press the **CLEAR** key and enter the track No. again.
- When a track No. is entered, the track will be added to the end of the existing program.
- " - - : - - " is displayed when the total programmed period has attained 100 minutes or more.

3 Start playback.

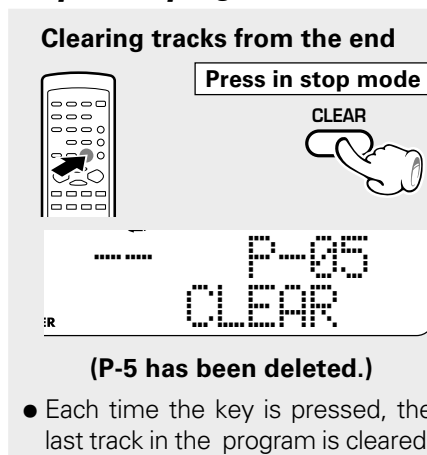


- Tracks will be played in the order they were programmed (following the program numbers).
- When the **◀◀** or **▶▶** key is pressed during play, the program will jump to the preceding or the following track respectively.
- When the **◀◀** key is pressed once during playback, the play position returns to the beginning of the current track being played.

To stop playback

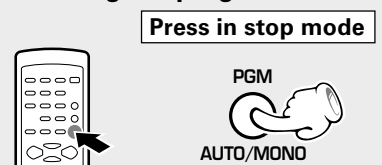


To quit the program mode



- Each time the key is pressed, the last track in the program is cleared.

Clearing the program



- The entire program is cleared.

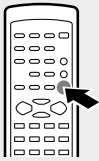
Repeated playback

You can repeatedly listen to a favorite track or disc.

Select the CD input.

Setup for repeating a single track

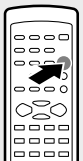
- 1 Confirm that the "PGM" indicator is not lit.



- 2 Play the track to be repeated.



- 3 Select "REPEAT".



- If the "PGM" indicator is lit, press the **PGM/AUTO/MONO** key to turn it off. Confirm that this is not lit.

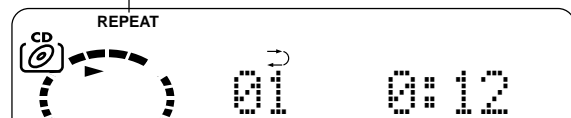


Each press switches the repeat mode.

- ① REPEAT
- ② REPEAT ALL
- ③ Off.... Repeat deactivated

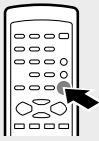
- For instance, to repeat track No. 3, select REPEAT in the middle of its playback or during pause on it.

Lights

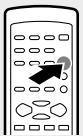


Setup for repeating all tracks in a disc

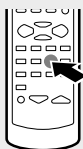
- 1 Confirm that the "PGM" indicator is not lit.



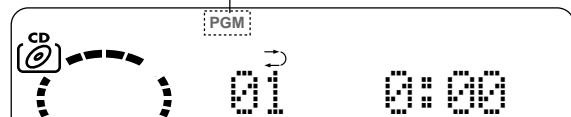
- 2 Select "REPEAT ALL".



- 3 Start playback



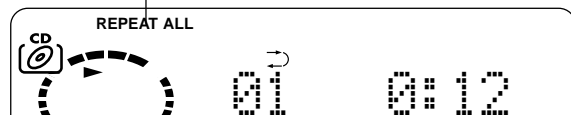
- If the "PGM" indicator is lit, press the **PGM/AUTO/MONO** key to turn it off. Confirm that this is not lit.



Each press switches the repeat mode.

- ① REPEAT
- ② REPEAT ALL
- ③ Off.... Repeat deactivated

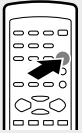
Lights



Setup for repeating selected tracks

- Program the track sequence according to steps 1 to 2 of "Listening in the desired sequence". → 26

- Select "REPEAT ALL".



- Start playback

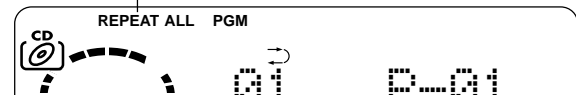


Each press switches the repeat mode.

- REPEAT ALL
- Off... Repeat deactivated

- All selected tracks will be repeated.

"REPEAT ALL", "PGM" light.



To stop repeated playback

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

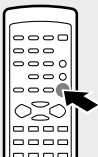
- The "REPEAT ALL" indicator turns off and playback according to the current CD player mode.

Listening to an unexpected title sequence (random playback)

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

Select the CD input.

- Confirm that the "PGM" indicator is not lit.



- If the "PGM" indicator is lit, press the PGM/AUTO/MONO key to turn it off.

Confirm that this is not lit.



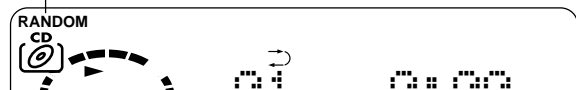
- Press the RANDOM key.



Each press switches the modes as follows.

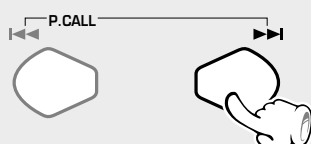
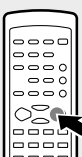
- "RANDOM" on ... Random playback
- "RANDOM" off ... Normal playback

Lights



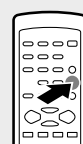
- Playback stops after each title has been played once.
- The random playback can also be repeated by pressing the REPEAT key.

To select another track in the middle of playing one



- Pressing the P.CALL key returns the playback position to the beginning of the track being played.

To cancel random playback



Press the RANDOM key



- The "RANDOM" indicator goes off and the playback in order of the tracks starts from the track being played.

RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

This unit is equipped with the following functions utilizing RDS data :

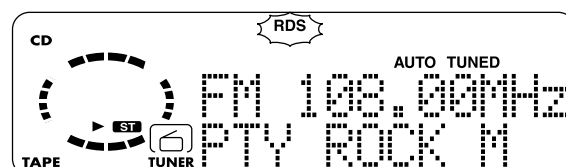
PTY (Program Type Identification) Search :

The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

PS (Program Service Name) Display :

When an RDS broadcast is received, the station name is automatically displayed.

The "RDS" indicator lights up when an RDS broadcast (signal) is received.



- Some functions may not be provided or be given different names depending on countries or areas.

Before using RDS

For reception of RDS stations, the auto presetting function must be used to preset the stations. With the auto presetting function, RDS stations are preset with priority. "NO DATA" will be flashed when a station is not preset by auto presetting.

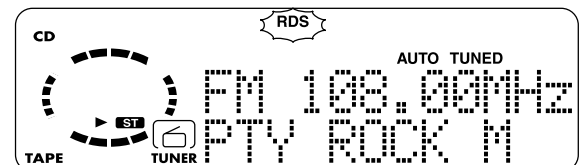
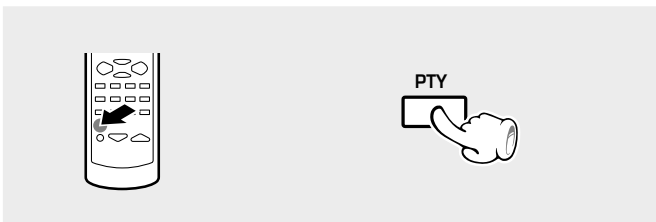
Searching for a desired program type (PTY search)

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.

Set the reception band to FM. Preset RDS stations with the auto memory function.



1 Select the PTY search mode.



When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

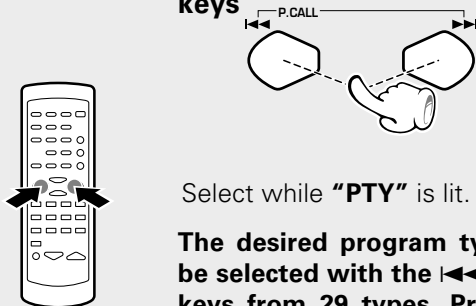
2 Select the desired program type.

Use program type table on the right for your convenience.

Program type table

(A) <</>> keys	(B) Program Type Name	Display	
DOWN ↑ UP ↓	1	Pop Music	POP M
	2	Rock Music	ROCK M
	3	Easy listening music	EASY M
	4	Light Classical	LIGHT M
	5	Serious Classical	CLASSICS
	6	Other Music	OTHER M
	7	News	NEWS
	8	Current Affairs	AFFAIRS
	9	Information	INFO
	0	Sport	SPORT
		Education	EDUCATE
		Drama	DRAMA
		Culture	CULTURE
		Science	SCIENCE
		Varied	VARIED
		Weather	WEATHER
		Finance	FINANCE
		Children's programs	CHILDREN
		Social affairs	SOCIAL A
		Religion	RELIGION
	Phone in	PHONE IN	
	Travel	TRAVEL	
	Leisure	LEISURE	
	Jazz music	JAZZ	
	Country music	COUNTRY	
	National music	NATION M	
	Oldies music	OLDIES	
	Folk music	FOLK M	
	Documentary	DOCUMENT	

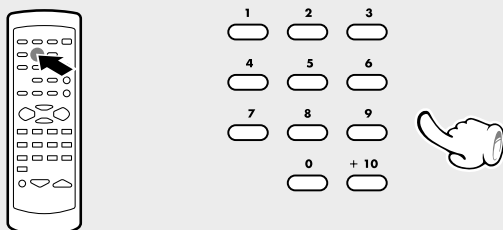
(A) Selection with the <</>> or >>/<< keys



Select while "PTY" is lit.

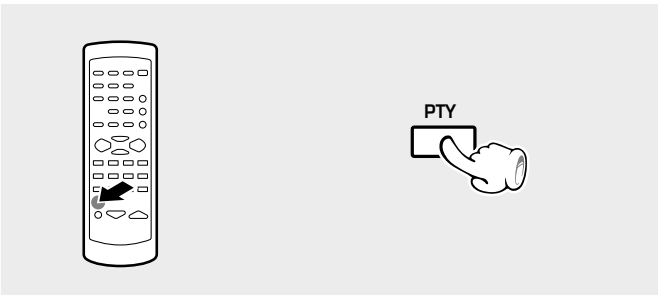
The desired program type can be selected with the <</>> or >>/<< keys from 29 types. Press the key and release it when the desired type is displayed.

(B) Selection with the numeric keys



The program types 1 to 9 and 0 can be selected directly with the number keys. Use the <</>> or >>/<< keys to select other program types.

3 Start the search.



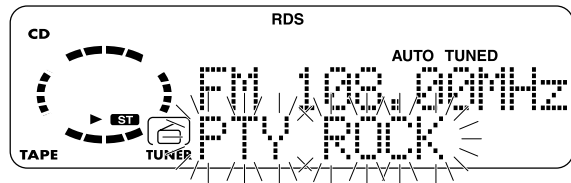
- No sound is heard while "PTY" is blinking.
- If a program of the desired type cannot be found, "NO PROG" is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display changes temporarily to the station name display.

To change to a different program type :

Repeat steps **1**, **2**, **3**.

When searching for a Rock Music broadcast

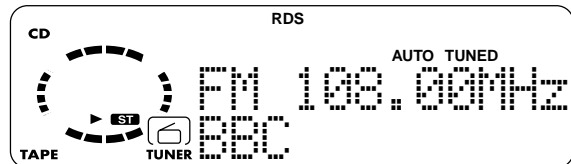
Display while the tuner is searching.



Blinks
Program type name display.

When a station is received.

Goes off



Station name display.

Selection of the recording type

This unit provides the following recording features in addition to normal recording. Select the appropriate method according to the purpose of recording.

To record CD with a simplified method

One-touch edit recording (CD→TAPE)

→ 34

All-track recording



Records all tracks in a CD onto a tape.

Single-track recording



Records only one CD track being played onto a tape. (This is convenient for recording of desired tracks from a disc being heard for the first time.)

To record desired CD tracks by reordering them

Program recording (CD→TAPE)

→ 35

Program recording



Recording of programmed tracks in the programmed order. (Convenient for recording only the desired CD tracks in the desired order.)



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

One-touch edit recording (CD→TAPE)

Records all tracks in a CD with a simple operation. (All-track recording)

Records a single CD track being played from the beginning. (Single-track recording)

Be sure to put the cassette deck in stop mode

1 Make the preparations for recording.

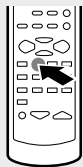
① Perform steps 1 to 3 of the procedure in "Recording on tape". → 24

② Insert disc in the CD player.

2 Check the current play mode of the CD player.

All-track recording

If it is in play mode, stop it.



Single-track recording

Select the desired CD track and play it.

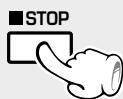
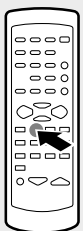
To record other tracks, repeat steps ② and ③ for each track.

3 Start recording.



- When the **TAPE O.T.E.** key is pressed for "Single-track recording", the CD track being played is replayed from the beginning and recording start at the same time.
- Operation is also possible with the **o.t.e.** key of the main unit.

To interrupt a recording



(Recording and playback will be stopped.)

At the end of the recording

Cassette deck : Stop is executed after an unrecorded portion of about 4 sec. has been produced.




Note that this cassette deck cannot record onto Metal tapes.

Program recording (CD → TAPE)


Desired CD tracks can be programmed in the desired sequence and recorded onto a tape.

Be sure to put the cassette deck in stop mode.

1 Make the preparations for recording.

- ① Perform steps 1 to 3 of the procedure in "Recording on tape". →  24
- ② Insert disc in the CD player.

2 Program the desired sequence of CD tracks.

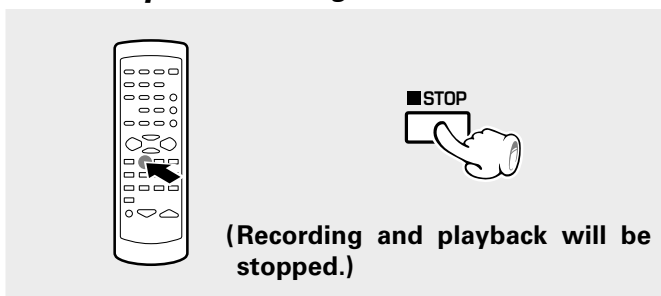
Perform steps ① and ② of the procedure in "Listening in the desired sequence (Program playback)". →  26

3 Start recording.



- When the **PGM/AUTO/MONO** key is pressed to cancel the edited contents, the entire editing contents will be erased.
- Tracks programmed beyond the available tape recording time will be interrupted in the middle.
- Operation is also possible with the **o.t.e.** key of the main unit.

To interrupt a recording



At the end of the recording

Cassette deck : Stop is executed after an unrecorded portion of about 4 sec. has been produced.



Note Note that this cassette deck cannot record onto Metal tapes.

Tone adjustment

The lowest and highest frequency bands can be adjusted independently. (Remote control only)

1 Select the frequency band.

(Go to step **2** within 20 seconds.)

2 Adjust.

(To adjust the other frequency band, repeat steps **1** and **2** for it.)

Each press switches the operation.

- ① "BASS" (low frequency) adjustment
BASS +2
- ② "TREBLE" (high frequency) adjustment
TREBLE -4
- ③ Normal mode

- The levels of both "BASS" and "TREBLE" can be adjusted in 2 steps in the range between -8 and +8.
- Adjusting the tone while the "LOUD" or "EX.BASS" indicator is lit turns it off and cancels the sound enhancement mode.

Balance adjustment (Adjust for the desired left / right balance.)

Adjusts the balance of left and right volume. (Main unit operation only)

1 Select "BALANCE ?".

(Press the set/demo key while the "?" mark is blinking.)

Turning the knob switches the display contents.

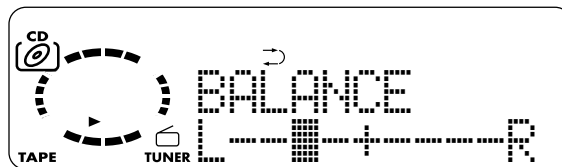
- TAPE RVS. ?
- AUTO PRESET (or A.MEMORY ?)
- (Only when the TUNER input is selected)
- AUX INPUT ?
- (Only when the AUX input is selected)
- BALANCE ?**
- BACK LIGHT ?
- A.P.S. SET ?
- TIMER SET ?

2 Adjust.

1 Adjust the balance.

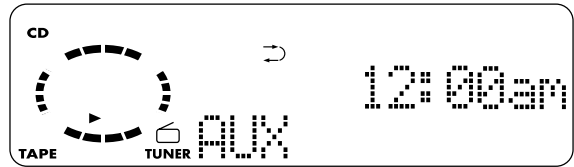
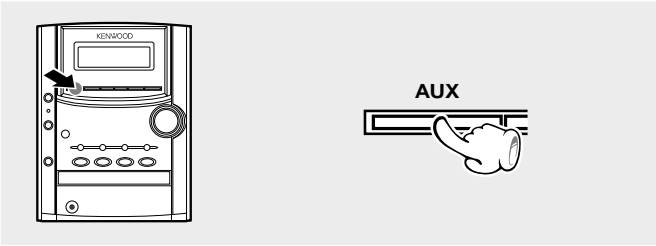
The right volume is decreased. The left volume is decreased.

2 Set it.



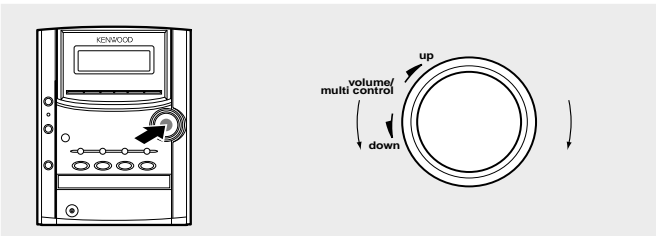
Listening to an AUX input source

1 Select AUX (external input).



2 Play the connected equipment..

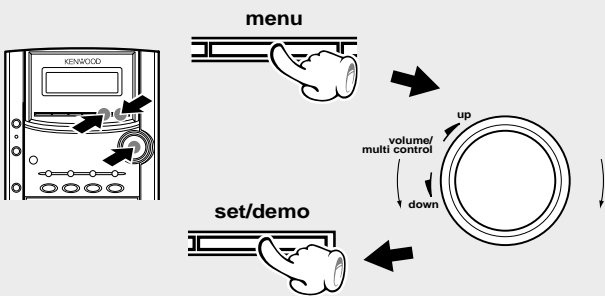
3 Adjust the volume.



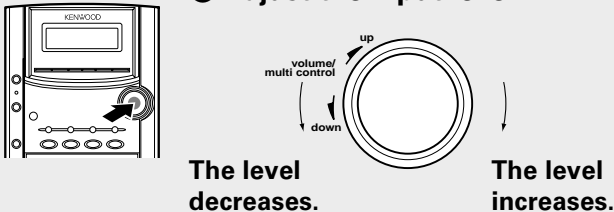
Adjusting the AUX Input Level

This adjusts the input level for the external equipment (video deck etc.) connected to the AUX input terminal. Adjust so that the volume of the AUX input source sounds at an equivalent level to the CD. (Main unit operation only)

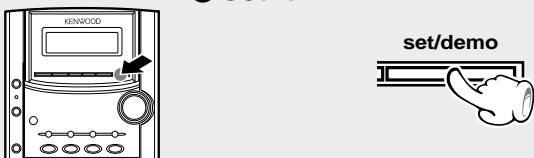
1 Select "AUX INPUT ?"



2 Adjust the input level.

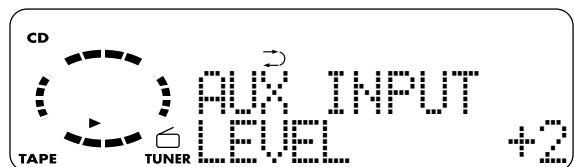


3 Set it



Turning the knob switches the display contents.

TAPE RVS.	?
AUX INPUT	?
BALANCE	?
BACK LIGHT	?
A.P.S. SET	?
TIMER SET	?

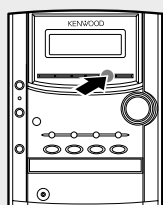


- Adjust the input level while "AUX INPUT" is displayed.
- Adjustment is possible over the range from -4 to +3.
- Adjusting the input level control also varies the recording level from the input source connected to the AUX input jacks.

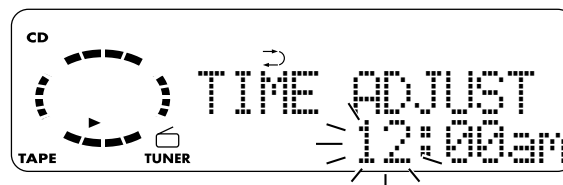
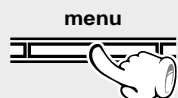
Clock adjustment

As the clock is not used to show the time of the day but is also used in timer operations, be sure to set the clock in advance.

1 Activate the clock adjustment mode.



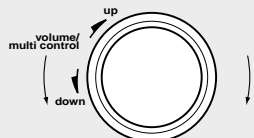
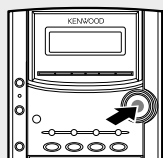
Press and hold for more than 2 sec. when the power is ON.



- The time display starts to blink.

2 Enter the figure of hour.

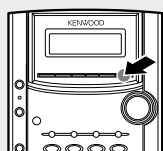
1 Enter the figure of hour.



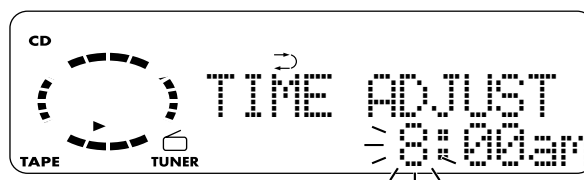
To decrease hour

To increase hour

2 Set it.



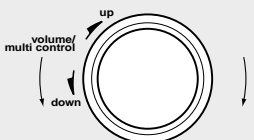
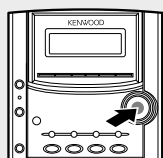
Example: Adjustment to 8:07



- The time of the day is represented in 12-hour am/pm method.
- Press the **set/demo** key. The hour is entered and the minute display starts to blink.

3 Enter the figure of minute.

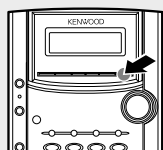
1 Enter the figure of minute.



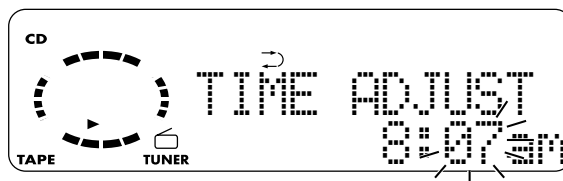
To decrease minute

To increase minute

2 Set it.



Example: Adjustment to 8:07



- If you make a mistake, restart from the beginning.
- When the time of day has been set by pressing the **set/demo** key, the display shows **"COMPLETE"**.
- After a power failure or the power cord has been unplugged then plugged in again, it is required to set the time again.
- When the **STOP** key is pressed while the power is in the standby mode, the time of the day will be displayed for 5 seconds.

Timer operation

Operate easy To use Timer (O.T.T.)

Playback of the selected input source starts at the specified time, and the unit is switched off after one hour. This timer operates only once directly after setting.

Timer playback, timer recording (PROG.1, PROG.2)

With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

All timer playback (PROG.1, PROG.2)

When timer playback starts, the volume level increases gradually until a certain level is reached.

Sleep timer (SLEEP)

The unit is turned OFF automatically after the specified period has elapsed.

Adjust the clock before setting the timer. →  38

Connect the related equipment under reference to "System connection".



Setting the O.T.T. timer

Timer playback which occurs only once and only for an hour can be programmed by simply setting the start time. The timer playback reproduces the source selected at the last time the unit is turned off at the last set volume.

- ① Press the menu key.
- ② Rotate the volume/multi control knob to select "TIMER SET?".
- ③ Press the set/demo key.
- ④ Rotate the volume/multi control knob to select "O.T.T. SET?".
- ⑤ Press the set/demo key to set "O.T.T. SET?".
- ⑥ Rotate the volume/multi control knob to select the time of the day to start playback or tuning (ON time).
- ⑦ Press the set/demo key to set the ON time.
- ⑧ Reserve the timer operation.
 - Press the remote's timer key repeatedly until "O.T.T." lights up.
 - When the O.T.T. timer is set while the PROG.1 or PROG.2 timer has been set, the reservation by the PROG.1 or PROG.2 timer is canceled.
- ⑨ Press the POWER (I/⏻) key to turn power off (STANDBY).
 - The standby/timer indicator lights in amber in the standby mode.

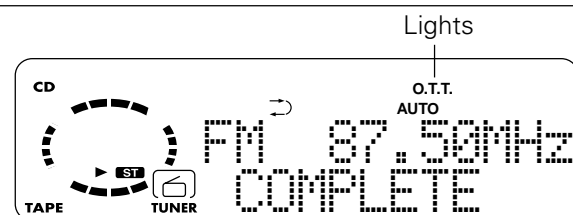
Turning the knob switches the display contents.

TAPE RVS.	?
AUTO PRESET (or A.MEMORY ?)	(Only when the TUNER input is selected)
AUX INPUT	?
	(Only when the AUX input is selected)
BALANCE	?
BACK LIGHT	?
A.P.S. SET	?
TIMER SET	?

Turning the knob switches the display contents.

① O.T.T. SET	?
② PROG. 1 SET	?
③ PROG. 2 SET	?

- The ON time can be set in steps of 5 minutes.



- After the timer has been set and power is off (timer standby), if there is a power failure or the power cord is unplugged from and plugged again into the power outlet, the standby/timer indicator blinks in amber. In this case, set the clock again.

Setting an everyday timer program (PRG. TIMER)

In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.

Adjust the clock before setting the timer. → 38

1 Make preparations for the play (recording).

To listen to CD

Insert a disc.
(Program playback is not possible.)

To listen to tape

Set a tape into.

To listen to radio

The station should be preset prior to the above. → 22

Playing the auxiliary input source

Make timer setting of the component connected to the AUX input jacks.

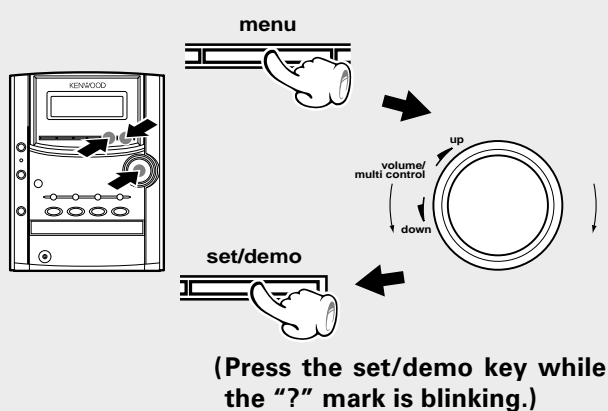
For recording

Make preparations for recording. → 24

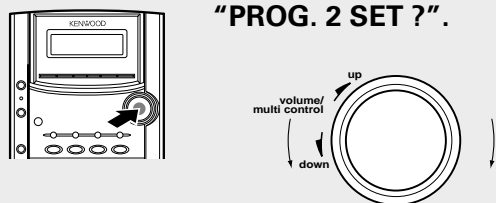
- Timer reservation is possible for the two types PROG.1 and PROG. 2 at the same time.
- Please make reservations with an interval of at least one minute, so that the operation times of PROG. 1 and PROG. 2 do not overlap.

2 Select the timer number.

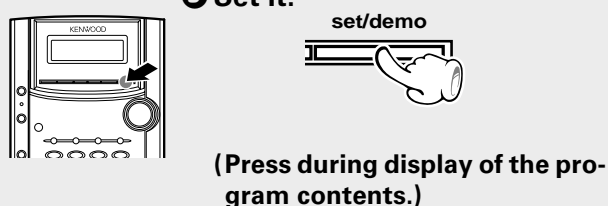
① Select "TIMER SET ?".



② Select "PROG. 1 SET ?" or "PROG. 2 SET ?".



③ Set it.



Turning the knob switches the display contents.

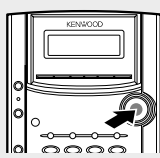
TAPE RVS.	?
AUTO PRESET (or A.MEMORY ?)	(Only when the TUNER input is selected)
AUX INPUT	?
BALANCE	?
BACK LIGHT	?
A.P.S. SET	?
TIMER SET	?

Turning the knob switches the display contents.

① O.T.T. SET	?
② PROG. 1 SET	?
③ PROG. 2 SET	?

- The selected timer number lights.
- If the selected timer number has a previously set program with it, the program will be overwritten by the newly set program.
- The previously set contents are displayed. (If you do not want to change them, simply press the **set/demo** key.)

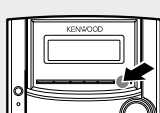

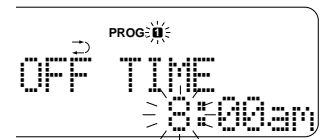
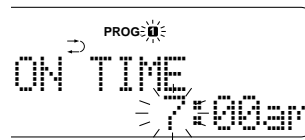
3 Set the ON time then the OFF time.



1 Adjust the time.

The time is returned. The time is advanced.

2 Set it.

- For each of the ON time and OFF time, enter the figure of "hour" by performing steps **1** and **2** then enter the figure of "minute" in the same manner.
- If you make a mistake, press the **menu** key and restart from step **2**.

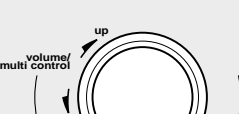

4 Make the desired reservation.

For timer playback or AI timer playback

1 Select the mode.

(1) Select "PLAY" or "AI PLAY".

(2) Enter it.

① **PLAY** Timer play

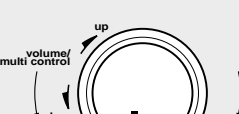

② **REC**

③ **AI PLAY** Timer play with gradually increasing volume

2 Select the input source.

(1) Select the source to be played.

(2) Enter it.

① **TUNER** Broadcasts

② **CD**

③ **TAPE**

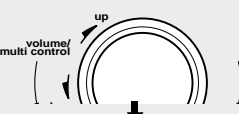

④ **AUX** External input (video, etc.)

- To select AUX, rotate the **volume/multi control** knob counterclockwise.

3 Select the broadcast station (only when TUNER is selected above).

(1) Select the preset station No.

(2) Enter it.

- When the timer setting is completed by pressing the **set/demo** key, "COMPLETE" is displayed.
- The source is played back at the volume set the last time the power was turned off.

For timer recording

1 Select the mode.

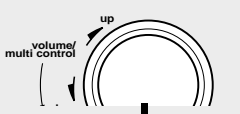
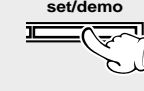
(1) Select "REC".

① **PLAY**

② **REC**

③ **AI PLAY**

(2) Enter it.

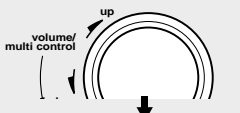
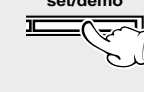
2 Select the input source.

(1) Select what is to be recorded.

① **TUNER** Broadcasts

② **AUX** External input

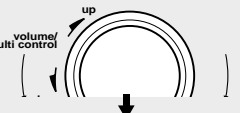
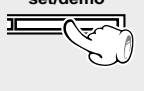
(2) Enter it.

3 Select the broadcast station (only when TUNER is selected above).

(1) Select the preset station No.

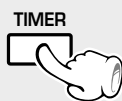
(2) Enter it.

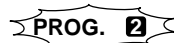
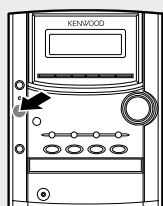
- When the timer setting is completed by pressing the **set/demo** key, "COMPLETE" is displayed.
- The sound is muted during timer recording. If you want to monitor the recorded sound, turn the volume/multi control knob (or press the volume key on the remote) to adjust the volume.

Continued to next page

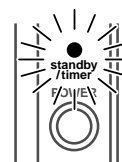
5 Reserve the timer operation.



6 Put the unit in standby mode.



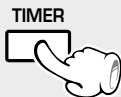
- Press the **TIMER** key on the remote repeatedly until "**PROG. 1**", "**PROG. 2**" or "**PROG. 1 2**" lights.



- The standby/timer indicator lights in amber in the standby mode.
- After the timer has been set and power is off (timer standby), if there is a power failure or the power cord is unplugged from and plugged again into the power outlet, the standby/timer indicator blinks in amber. In this case, set the clock again.

When timer operation is not required

When power is ON, press the **TIMER** key to turn off the timer-related indicators completely.



Each press switches the timer as follows.

- ① O.T.T.
- ② **PROG. 1**
- ③ **PROG. 2**
- ④ **PROG. 1 2**
- ⑤ Extinguished

- The reservation contents are held in memory.

To set the same timer program again

When power is ON, press the **TIMER** key to turn on the indication of the timer operation you want to execute.



Each press switches the timer as follows.

- ① O.T.T.
- ② **PROG. 1**
- ③ **PROG. 2**
- ④ **PROG. 1 2**
- ⑤ Extinguished

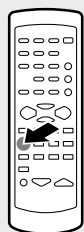
- Be sure to load a disc or tape and adjust the listening volume.



To check or modify the reservation contents, restart the timer reservation from the beginning.

Sleep timer (SLEEP)

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

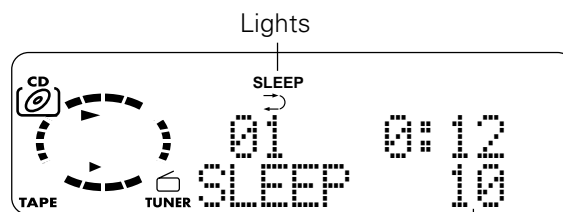


Set the time.



- The unit is turned OFF automatically after the set time has elapsed.
- Each press increases the timer period by 10 minutes. The sleep timer can be set up to 90 minutes.

10→20→30...70→80→90→Cancel→10→20...



Duration for sleep timer

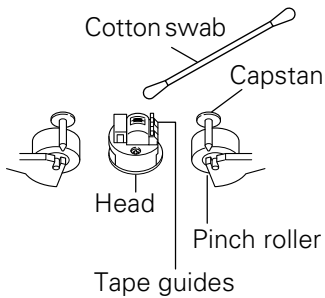
To cancel

Turn the unit OFF or press the **SLEEP** key until the sleep time is cancelled.

Important Items

Maintenance

Cleaning the head section



Cleaning the heads and peripheral components

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

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

Demagnetizing the head

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



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

Note related to transportation and movement

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

- 1 Remove the CD from the unit.
- 2 Press the CD ►/II key.



- 3 Wait for some time and verify that the display becomes as shown in the figure.
- 4 Wait a few seconds and turn the unit OFF.

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet	Clock display
Stored contents which are cleared in at least a day after power plug is unplugged from power outlet	Amplifier section "on/standby" status (ON or STANDBY) Last input selection Volume control value Tone control levels AUX input level Balance setting Setting auto power save Tuner section Receiving band Frequency Preset stations Auto/mono setting Timer setting contents Cassette deck unit Transport direction Tape EQ. Reverse mode

Reference

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstance:

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

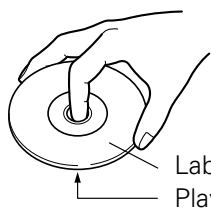
Maintenance of the unit

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

In regard to contact cleaner

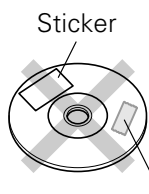
Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

Disc handling precautions

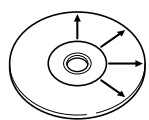


Handling

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



Do not attach paper or tape to either the playing side or the label side of the discs.



Cleaning


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

Storage

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

Discs which can be played with this unit

CD (12 cm, 8 cm), and the audio part of CDV, CD-G, CD-EG and CD-EXTRA.

Use discs that comply with the IEC standard, for example a disc carrying the  marking on the label surface.

Never play a cracked or warped disc

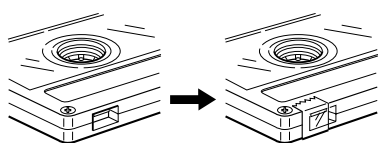
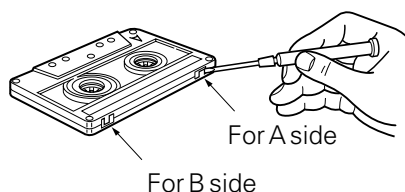
During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent. Please do not use discs which are not round because they may cause a malfunction.

Disc accessories

The disc accessories (stabilizer, protection sheet, protection ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system because they may cause malfunction.

Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.

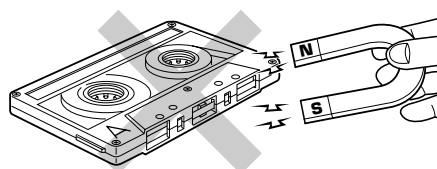


To re-record

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

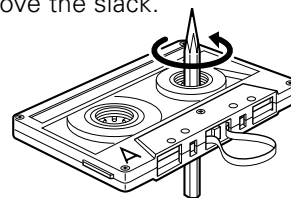
To store cassette tapes

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



When there is slack in the tape

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



1. Note on long tapes

Do not use a tape longer than 90 minutes, for such tapes will easily cause troubles such as entanglement around a pinch roller or cutting off.

2. Endless tapes

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

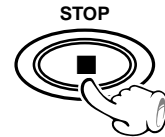
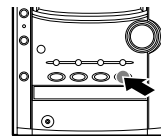
What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

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

Unplug the power cord from the power outlet then, while holding the set/demo key depressed, plug the power cord again.



Amplifier section/Speakers

Symptom	Remedy
Sound is not produced.	<ul style="list-style-type: none"> ● Connect properly referring to "System connections". → 6 ● Adjust to an required volume. → 15 ● Switch MUTE OFF. ● Unplug the headphone plug.
The standby/timer indicator blinks in red and no sound is put out.	<ul style="list-style-type: none"> ● A speaker cord is short-circuited. Turn power off and re-connect the speaker cord.
The standby/timer indicator lights in amber.	<ul style="list-style-type: none"> ● Adjust the present time again. → 38
No sound from the headphones.	<ul style="list-style-type: none"> ● Insert correctly. → 15 ● Adjust to an required volume. → 14
Sound is not produced from the left or right speakers.	<ul style="list-style-type: none"> ● Connect properly referring to "System connection". → 6 ● Adjust the optimum left and right balance. → 36
The clock display blinks without changing the figures.	<ul style="list-style-type: none"> ● Adjust the present time again. → 38
Timer operation is not possible.	<ul style="list-style-type: none"> ● Adjust the present time referring to "Clock adjustment". → 38 ● Set the timer ON time and OFF time. → 41 ● Press the TIMER key to set up the execution. → 42

Tuner section

Symptom	Remedy
Radio stations cannot be received.	<ul style="list-style-type: none"> ● Connect antennas. → 6 ● Select a band. → 20 ● Tune to the frequency of the desired station. → 20
Noise interferes.	<ul style="list-style-type: none"> ● Install the outdoor antenna in an apart position from the road. ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	<ul style="list-style-type: none"> ● Preset stations with tunable frequencies. → 22 ● Preset stations again. → 22

CD player section

Symptom	Remedy
A CD is placed in the player but it cannot be played.	<ul style="list-style-type: none"> ● Place the disc properly, with the label side facing upward. ● Clean the disc referring to "Disc handling precautions". → 44 ● Refer to "Caution on condensation" and remove the condensation by evaporation. → 43
Sound is not produced.	<ul style="list-style-type: none"> ● Press the CD ►/ key. ● Clean the disc referring to "Disc handling precautions". → 44
Sound skips.	<ul style="list-style-type: none"> ● Clean the disc referring to "Disc handling precautions". → 44 ● Install the unit in a place not subject to vibrations.

Remote control unit

Symptom	Remedy
Remote control operation is not possible.	<ul style="list-style-type: none"> ● Replace with new batteries. → 13 ● Operate the unit inside the remote controllable range. → 13

Cassette deck

Symptom	Remedy
Sound cannot be produced by pressing the play key.	<ul style="list-style-type: none"> ● Clean the head referring to "Maintenance". → 43 ● Play a recorded tape.
No operation occurs even when an operation key is pressed.	<ul style="list-style-type: none"> ● Press operation keys in more than a few seconds after closing the cassette holder. ● Change the tape transport direction or reverse the tape insertion orientation. → 18
The cassette holders cannot be opened by pressing the TAPE ▲ key.	<ul style="list-style-type: none"> ● Press in stop mode.
Sound is harsh or high frequencies are not reproduced.	<ul style="list-style-type: none"> ● Clean the head referring to "Maintenance". → 43 ● Try another tape.
Sound is distorted.	<ul style="list-style-type: none"> ● Adjust the AUX input level. → 37
Noise is noticeable.	<ul style="list-style-type: none"> ● Demagnetize the head referring to "Maintenance". → 43 ● Install the system at a distance from other electric appliances and TV. ● Set the "TAPE EQ." to on. → 19
Sound vibrates.	<ul style="list-style-type: none"> ● Clean the head referring to "Maintenance". → 43 ● Wind the tape again by fast forwarding, rewinding or playing from an end to the other. → 19
Recording cannot be started by pressing the record key.	<ul style="list-style-type: none"> ● Use a cassette with an unbroken recording protect tab or block the hole. → 44 ● Set the input selector to the source to be recorded. → 25 ● Change the tape transport direction or reverse the tape insertion orientation. → 18

Main unit

[Amplifier section]

(For U.K. and Europe)

Effective output power during STEREO operation

1 kHz, 10 % T.H.D., at 6 Ω 20 W + 20 W

Rated output power during STEREO operation

1 kHz, 0.7 % T.H.D., at 6 Ω 15 W + 15 W

(For U.S.A. and Canada)

Rated output power during STEREO operation

14 watts per channel minimum RMS, both channels driven, at 6 Ω from 90 Hz to 20 kHz with no more than 0.9 % total harmonic distortion. (FTC)

(For other countries)

Rated output power during STEREO operation

1 kHz, 10 % T.H.D., at 6 Ω 20 W + 20 W

Frequency response

AUX 50 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

MW (AM) tuner section

Tuning frequency range

(For U.S.A. and Canada)

..... 530 kHz ~ 1700 kHz

(For U.K., Europe and Australia)

..... 531 kHz ~ 1,602 kHz

(For other countries)

9 kHz step 531 kHz ~ 1,602 kHz

10 kHz step 530 kHz ~ 1,610 kHz

[CD player section]

Laser Semiconductor laser

D/A Conversion 1 Bit

Wow and flutter Less than unmeasurable limit

[Cassette deck section]

Track 4-track, 2-channel stereo

Recording system AC bias system

(Frequency: 65 kHz)

Heads

Playback / recording head 1

Erasing head 1

Motors 1

Wow and flutter 0.2 % (W.R.M.S.)

Fast winding time Approx. 100 seconds

(C-60 tape)

[General]

Power consumption 60 W

Dimensions

W : 180 mm

H : 239 mm

D : 305 mm

Weight (net) 5.4 kg

Speakers

Enclosure Book shelf type, magnetically shielded

Speaker configuration

Woofers 100 mm, cone type

Tweeter 50 mm, cone type

Impedance 6 Ω

Maximum input level 30 W

Dimensions

W : 150 mm

H : 234 mm

D : 197 mm

Weight (net) 2.4 kg(1 piece)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

KENWOOD

For your records

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

Model _____ Serial Number _____

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