KENWOOD

MICRO HI-FI COMPONENT SYSTEM

HM-535

INSTRUCTION MANUAL

KENWOOD CORPORATION

COMPACT
dISC
DIGITAL AUDIO

B60-5240-00 00 (MA) (K, T, M, X, E2) FE 0201

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 switches on the rear panel are 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 positions of these switches match your line voltage. If not, they must be set to your voltage in accordance with the following direction.

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

AC 220 - 240V ~

AC 110 - 120V ~
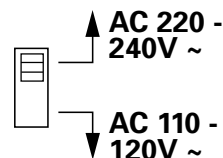
Note : Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precautions

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

⚡ **CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN ⚠	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 (For countries other than U.S.A., U.S.-Military and Canada)

CLASS 1 LASER PRODUCT	The marking of this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product. Location: Back panel

Special features

Playback capability of CD-R and CD-RW discs.

This unit can playback music data recorded in CD-R (Compact Disc Recordable) and CD-RW (Compact Disc Rewritable).
However, some CD-R and CD-RW discs may not be playable on the CD player depending on the recording characteristics of the recording equipment (including the pick-up), properties of the CD-R or CD-RW in use, its recording condition and so on. Also note that a CD-R or CD-RW disc which has not been finalized cannot be played back.

Convenient recording features

Versatile recording features are provided, allowing the user to select the desired one for each purpose.

● **One-touch recording :**
Pressing a single key starts the recording of all tracks or a single track in a CD.
● **Program recording :**
Your favorite tracks can be recorded in any desired order.

Versatile timer features

● **Timer playback, timer recording :**
Two timer programs (PROG 1, PROG 2) are available for timer playback (AI timer playback) or timer recording. (With the AI timer playback, the playback volume increases gradually after the start of timer playback.)
● **Sleep timer :**
This timer turns the unit off automatically when the set time has elapsed. It is convenient for example, falling asleep while listening to music in the night time, etc.

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 canceled as follows.

"DEMO OFF" (To cancel demonstration):
Press the **set/demo** key during demonstration.
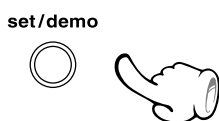
set/demo

"DEMO ON" (To execute demonstration):
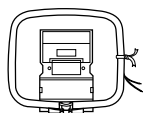After turning power ON, press and hold the **set/demo** key (for more than 2 seconds).

● This operates automatically when a power failure has occurred or the plug of the power cable has been pulled while the power was ON.
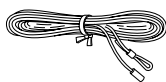
3

Accessories

Unpacking
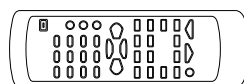**Unpack the unit carefully and make sure that all the accessories are present.**
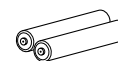
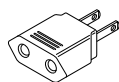| AM loop antenna (1)	FM indoor antenna (1)	Remote control unit (1)	Batteries (R6/AA) (2)

AC plug adaptor (1)
Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If the unit was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the unit in the future.

Keep this manual handy for future reference.

For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio / TV technician for help.

For the U.S.A.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, the following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION

2967-3, ISHIKAWA-CHO,

HACHIOJI-SHI,

TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS NO. 21 CFR 1040.10, CHAPTER 1, SUBCHAPTER J.

Location: Back Panel

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Contents

Caution : Read the pages marked ⚠ carefully to ensure safe operation.

As an ENERGY STAR® Partner, Kenwood Corporation has determined that this products meets the ENERGY STAR® guidelines for energy efficiency. This product can save energy. Saving energy reduces air pollution and lowers utility bills.

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.

CAUTION

The magnet in the speaker may cause color irregularity to the TV or PC monitor. Place the speaker farther away from the TV set or PC monitor.

CAUTION

Be sure to adhere to the following, or proper ventilation will be blocked causing damage or fire hazard.
- Do not place any objects impairing heat radiation onto the top of the unit.
- Leave some space around the unit (from the largest outside dimension including projection) equal to or greater than, shown below.
    Top panel : 50 cm
    Back panel : 10 cm

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.

Assemble   **AM loop antenna**

Speaker (Right)
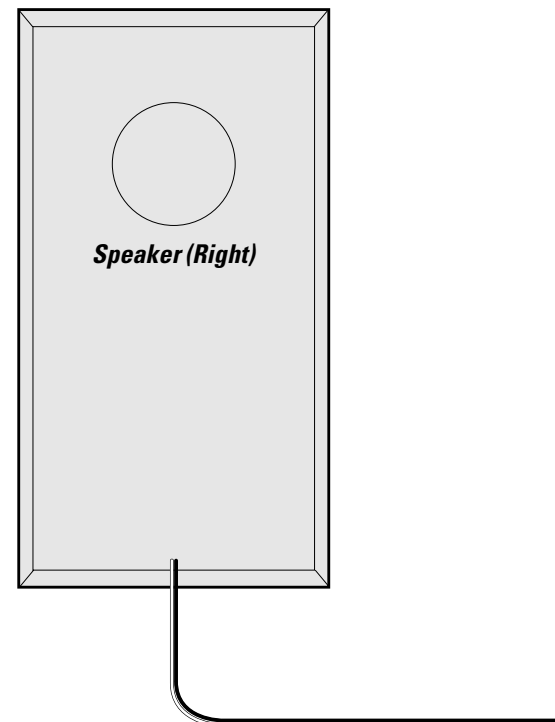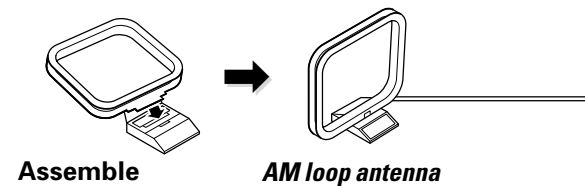
Notes
- Never short-circuit the "**+**" and "**–**" speaker cords.
- If the "**+**" and "**–**" polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc.
- Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
- 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.
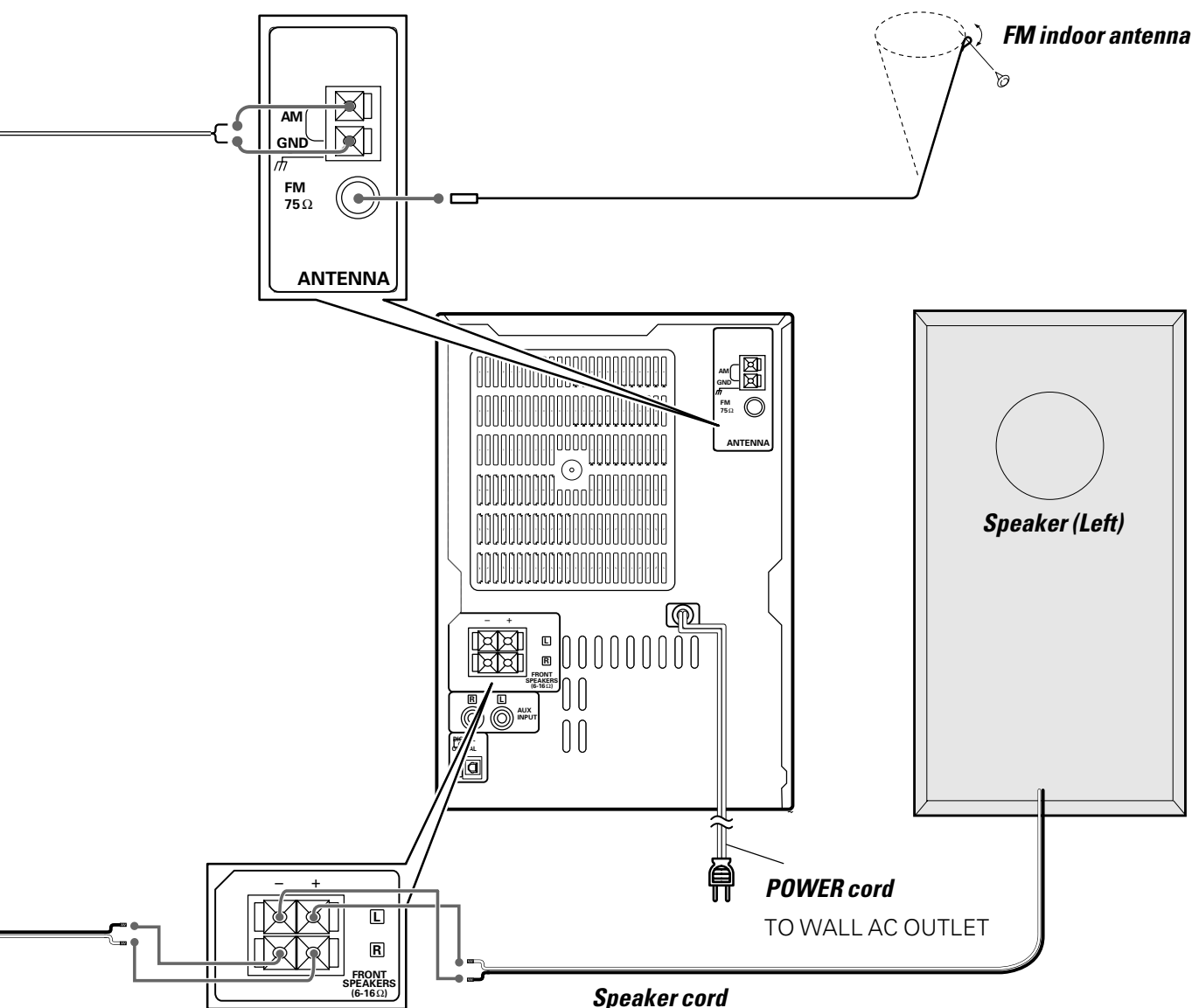
6 ^{EN}

Malfunction of microcomputer

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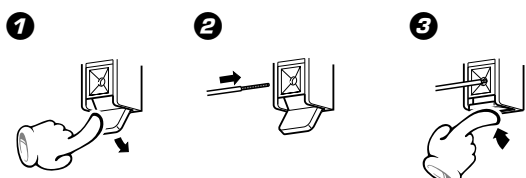
FM indoor antenna

The supplied antenna is for temporary indoor use only. For stable signal reception, we recommend to use an outdoor antenna. Remove the indoor antenna if you connect to an outdoor antenna.
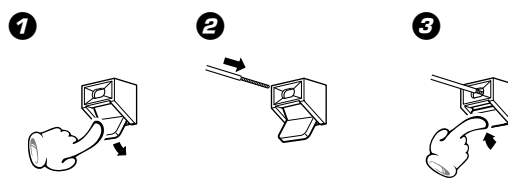
❶ Connect the antenna to the antenna terminal.
❷ Locate the position providing good reception condition.
❸ Fix the antenna.

FM indoor antenna

AM
GND
FM
75Ω
ANTENNA

AM
GND
FM
75Ω
ANTENNA

Speaker (Left)

FRONT
SPEAKERS
(6-16Ω)

AUX
INPUT

POWER cord

TO WALL AC OUTLET

FRONT
SPEAKERS
(6-16Ω)

Speaker cord

How to connect speaker cords to the main unit

❶　　　❷　　　❸

How to connect AM antenna cord to the main unit

❶　　　❷　　　❸

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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.
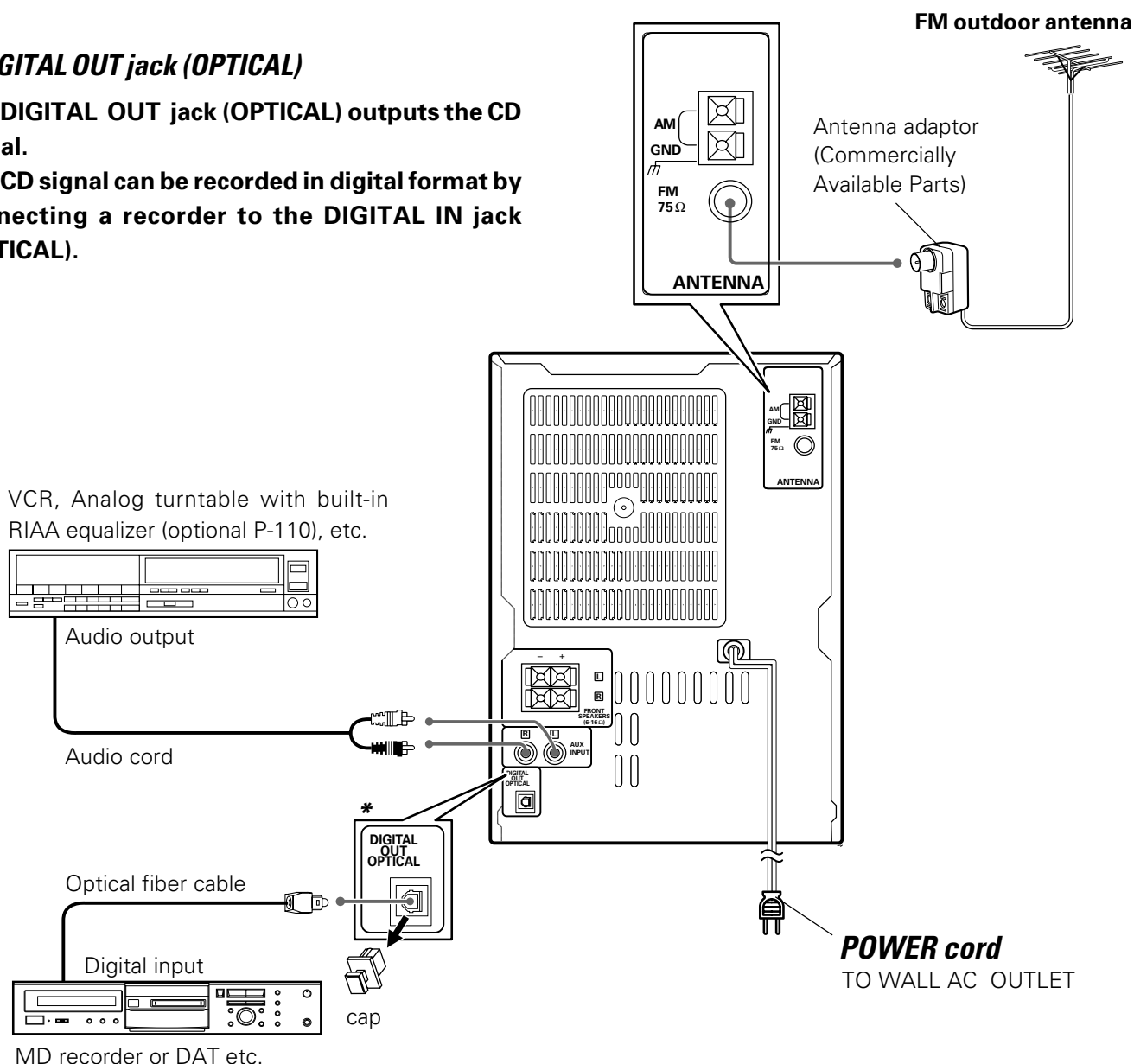
* DIGITAL OUT jack (OPTICAL)

The DIGITAL OUT jack (OPTICAL) outputs the CD signal.

The CD signal can be recorded in digital format by connecting a recorder to the DIGITAL IN jack (OPTICAL).

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.

FM outdoor antenna

Antenna adaptor
(Commercially
Available Parts)

VCR, Analog turntable with built-in RIAA equalizer (optional P-110), etc.

Audio output

Audio cord

Optical fiber cable

Digital input

MD recorder or DAT etc.

cap

POWER cord
TO WALL AC OUTLET

Notes

● In case an associated system component is connected, also read the instruction manual of the component.

● Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.

● 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.

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Controls and indicators

Display

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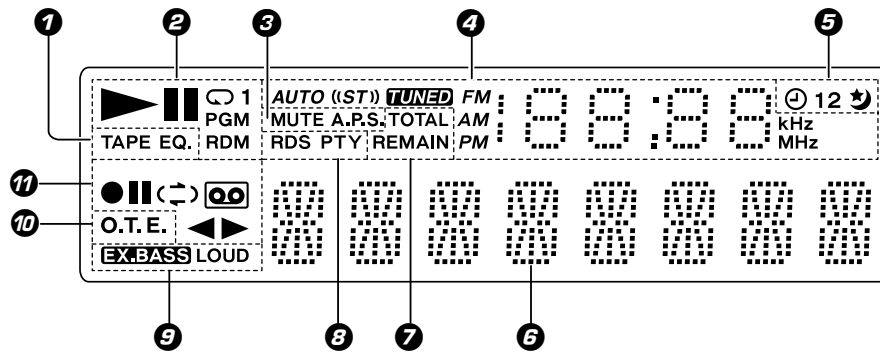

❶ **TAPE EQ. indicator**

❷ **CD-related indicators**

❸ **MUTE indicator, APS indicator**

❹ **Tuner-related indicators/Numeric information display**

❺ **Timer-related indicators**

❻ **Character information display**

❼ **Time display indicators**

❽ **RDS-related indicators (For Europe and U.K.)**

❾ **EX.BASS indicator, LOUD (Loudness) indicator**

❿ **O.T.E. (One-Touch Edit) indicator**

⓫ **Tape-related indicators**

AUTO POWER SAVE function

When the unit is ON and the unit is left for 30 minutes with CD or 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.

❶ Select "APS   ?".

mode   ◄◄   ►►I   set/demo

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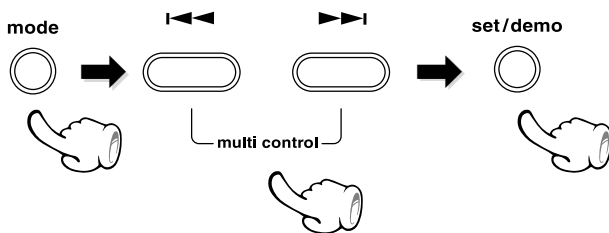
(Press the set/demo key while the "?" mark is blinking.)

❷ Select "APS ON" or "APS OFF".

◄◄   ►►I

multi control

❸ Set it.

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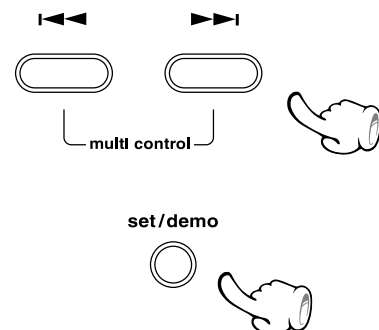
● When the TUNER or AUX input is selected, APS operates only when the volume is set to zero or when MUTE is on.

Main unit
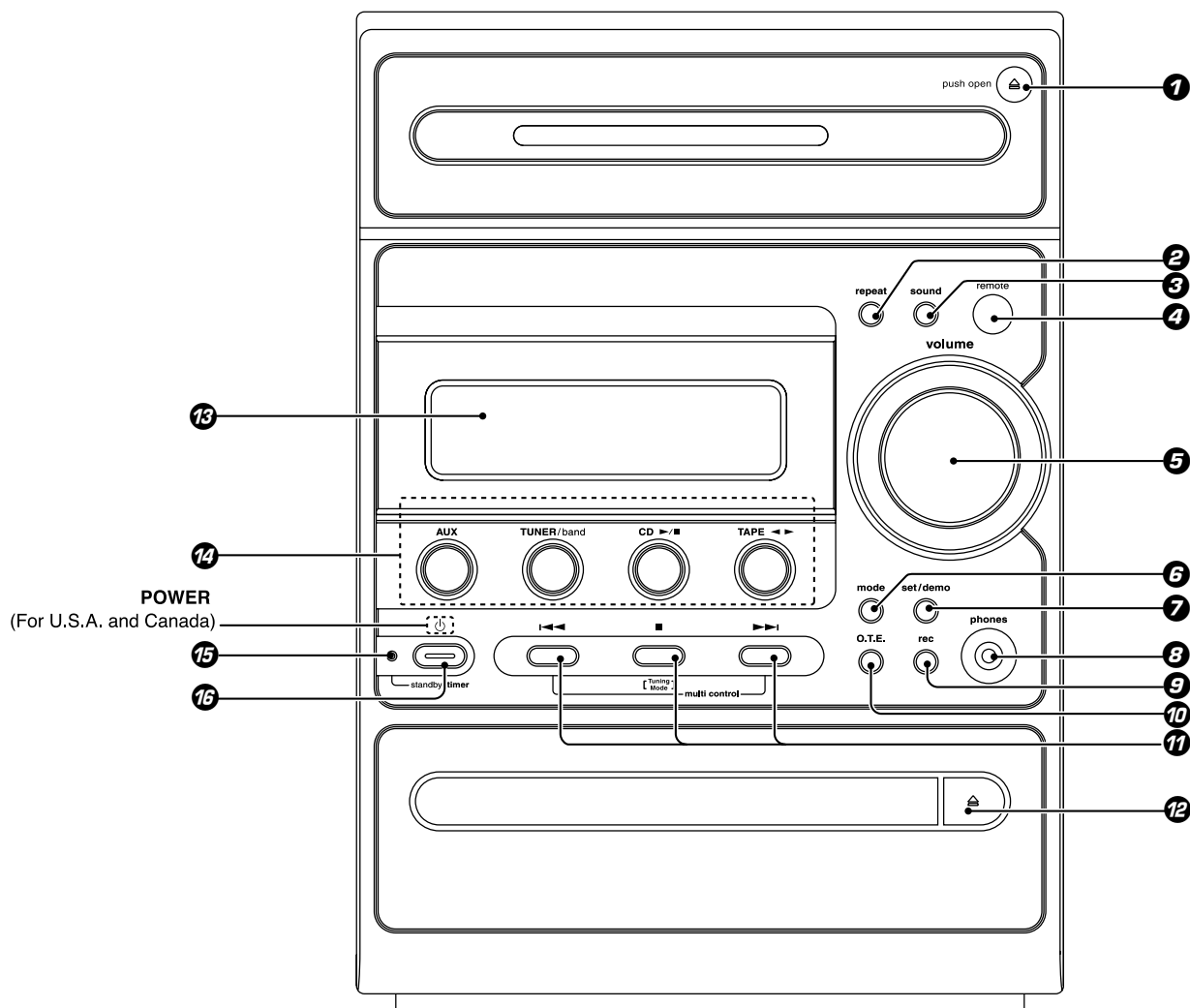
❶ Cassette holder →[18]

To load or eject a cassette tape, press the area marked ⏏ **push open** on the cassette holder to open it.

❷ repeat key →[31]

Press for setting repeated playback.

❸ sound key →[15]

Press to select EX. BASS or LOUD sound effect.

❹ Remote sensor →[13]

This window receives signals from the remote control unit.

❺ volume knob →[14]

Turn this knob for volume adjustment.

❻ mode key →[9]

Press to switch the function of the ◄◄ and ►►I keys to menu select mode. Press again to reset the function of the ◄◄ and ►►I keys to normal mode.

❼ set/demo key →[3] →[9]

Press to set or enter an item selected with the ◄◄ and ►►I keys.

This key is also used for switching demonstration on/ off and the beat cancel function on while recording the radio broadcast.

❽ Headphone jack →[15]

Connect headphone with a stereo mini-plug (optionally available).

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).

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❾ rec key →27

Press to start tape recording. Pressing this key during recording initiates record-pause after leaving a no-sound blank of about 4 seconds.

❿ O.T.E. key →34

Press to start recording CD onto a tape with one-touch operation.

Pressing this key during CD playback records only the track being played onto tape. Pressing it while CD is in stop state will record all the CD tracks onto tape.

⓫ I◀◀ and ▶▶I multi control keys

In the normal mode, these are used to
– skip CD tracks →17
– fast forward or rewind tape →19
– select a preset radio station →20

In the menu mode (selected by pressing the mode key), press these buttons to select the desired menu item. To set or enter setting of the menu item, press the set/demo key.

mode   I◀◀   ▶▶I   set/demo
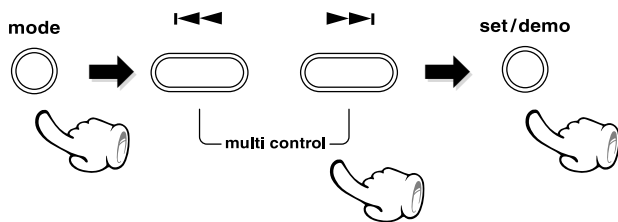
└ multi control ┘

• Pressing these multi control keys switches the display contents.

┌► **"TAPE RVS"** →19

"AUTO PRESET ?" or **"AUTO MEMORY ?"** →21

(Only when the TUNER input is selected)

"INPUT   ?" →36

(Only when the AUX input is selected)

"TIMER   ?" →39

"TIME ADJUST ?" →37

└► **"APS   ?"** →9

• The function of these keys returns to the normal mode when they have not been operated for 20 seconds.

■ Tuning Mode key

CD, TAPE : →17 →19

Press to stop a disc or tape operation.

TUNER : →22

Press to switch between the AUTO (auto tuning, stereo reception) and MONO (manual tuning, monaural reception) modes.

Standby mode: →37

Press to display the clock.

⓬ ▲ CD open/close key →16

Press to open or close the CD tray.

⓭ Display panel

⓮ Basic operation keys

AUX key →36

Press to reproduce the external source component connected to the AUX (analog auxiliary input) jacks.

TUNER /band key →20

Press to select the TUNER input.

This key is also used to select the received broadcast band.

CD ▶/II key →16

Press to select the CD input and start playback. During CD playback, press to pause.

TAPE ◀ ▶ key →18

Press to select the TAPE (cassette deck) input and start playback of a tape. Pressing this key during tape playback switches the tape transport direction.

⓯ standby/timer indicator

Lights up when the unit is set to the Standby mode of power.

Red   : Ordinary standby.
Green : Timer standby.
Off   : The unit is On.

⓰ POWER key (For U.S.A. and Canada) →14

⏻ key (For other countries) →14

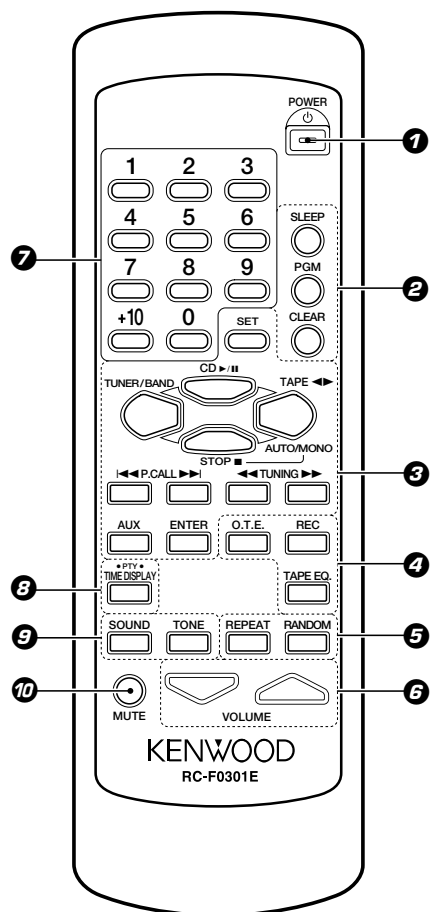Press to set the unit to On or Standby.

Standby mode
While the standby indicator is lit, a small amount of power is supplied to the system to back up the memory. This is called standby mode. Under the condition, the system can be turned ON by the remote control unit.

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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-F0301E (For UK and Europe)
: RC-F0301 (For other countries)

❶ POWER ⏻ key →[14]
Press to set the unit to On or Standby.

❷ SLEEP key →[38]
Press to set the sleep timer.

PGM key (CD) →[29]
Press to program tracks in the desired sequence.

CLEAR key (CD) →[30]
Press to clear a programed track(s).

❸ Basic operation keys

SET key
Press to set or enter an item selected with the ⏮◀ and ▶⏭ keys.

TUNER/ BAND key →[20]

CD ▶/❚❚ key →[16]

STOP ■/AUTO/MONO key →[17] →[22]

TAPE ◀ ▶ key →[18]

⏮◀ P.CALL ▶⏭ keys

CD : →[17]
Used to skip CD tracks.

TAPE : →[19]
Used to fast forward or rewind tape.

TUNER : →[20]
Used to receive a preset radio station.

◀◀ TUNING ▶▶ keys

CD, TAPE : →[17] →[19]
Used to fast-forward or fast-reverse the played audio.

TUNER : →[22]
Used to select a radio station.

AUX key →[36]
Press to reproduce the external source component connected to the AUX (analog auxiliary input) jacks.

ENTER key →[22]
Press to enter a radio station in the preset memory of the tuner.

❹ O.T.E. key →[35]

REC key →[27]

TAPE EQ. key →[19]

❺ REPEAT key (CD) →[31]
Press for setting repeated playback.

RANDOM key (CD) → ⨭32⨮

Press for setting playback of tracks in a random order.

❻ **VOLUME keys** → ⨭14⨮

Press to adjust the volume.

❼ **Numeric keys** → ⨭17⨮ → ⨭22⨮
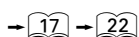
Used to select a CD track number or recall a preset station of the tuner.

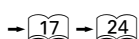❽ ● **PTY ● TIME DISPLAY key (For Europe and U.K.)**

→ ⨭17⨮ → ⨭24⨮

Used at the time of program type detection.
Press to switch the displayed time information on CD.

TIME DISPLAY key (For other countries)

→ ⨭17⨮

Press to switch the displayed time information on CD.

❾ **SOUND key** → ⨭15⨮

Press to switch the sound effect to EX.BASS or LOUD.

TONE key → ⨭15⨮

Press to adjust the tone.

❿ **MUTE key** → ⨭15⨮

Press to mute the audio temporarily.

Loading batteries
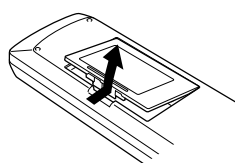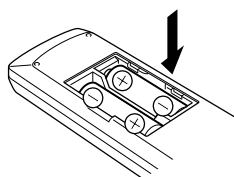
❶ Remove the cover.   **❷ Insert batteries.**   **❸ Close the cover.**
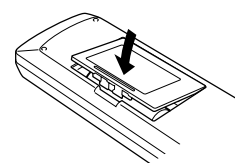
● Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

After plugging the power cord of this unit, press the POWER (⏻) 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.

Operating range (approx.)

Remote sensor

6 m

30° 30°

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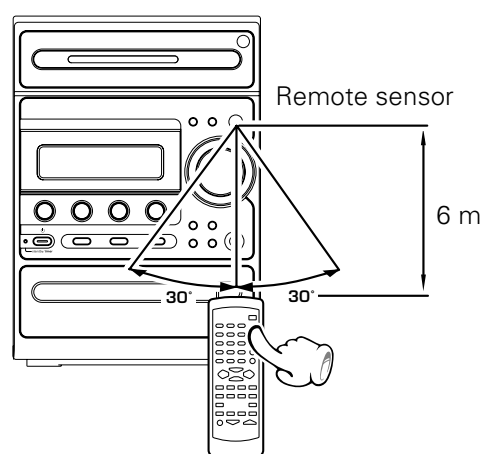
● The provided batteries are intended for use in operation checking, and their service life may be short.
● When the remote controllable distance becomes short, replace both of the batteries with new ones.
● If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is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

13 **EN**

Basic use method

The system is switched ON or STANDBY

Enhancement of bass

Enhancement of bass

Muting the sound temporarily

Tone adjustment

Listening through headphone

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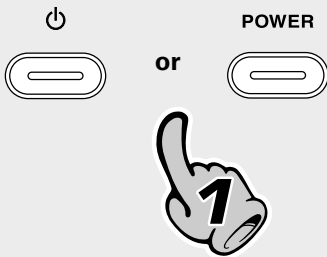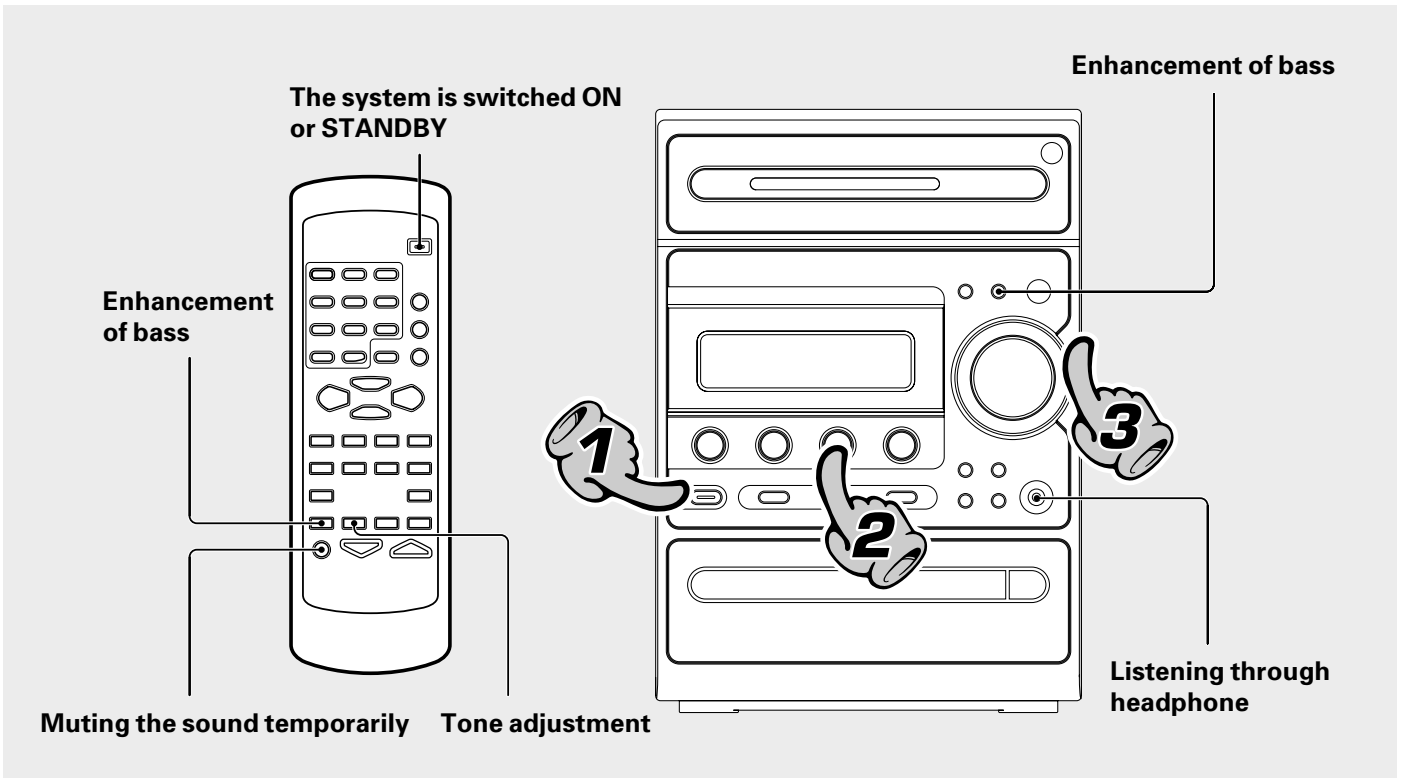
1. Set the ⏻ key to ON.

Pressing the ⏻ key when the unit is ON turns it off (Standby mode of power).

● Pressing the **TUNER/band**, **CD ▶/Ⅱ**, **TAPE ◀ ▶** or **AUX** 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.

⏻ **or** POWER

---

2. Selecting the desired output.

Example: To select the CD input

CD   → [16]
TAPE   → [18]
TUNER (Broadcasts) → [20]
AUX (External input) **[**Adjusting the AUX input level → [36] **]**

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

CD ▶/Ⅱ

▶   0:01
⇄ ▶ CD   01
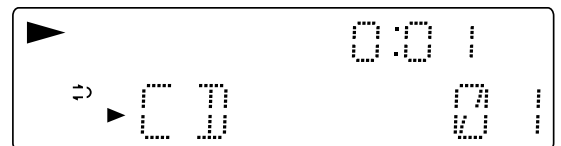
When CD has been selected.

---

3. Volume adjustment.

The volume decreases   **volume**   The volume increases

● The display shows a reference value.
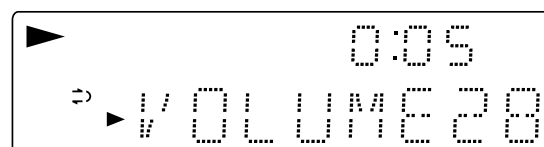
▶   0:05
⇄ ▶ VOLUME 20   Volume display

Listening through headphone

Insert the headphone plug into the headphone jack.
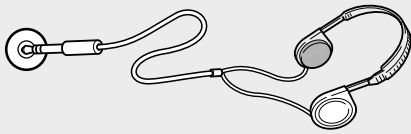
- Headphone with a stereo mini plug can be connected.
- The sound from all speakers are cut off.

Muting the sound temporarily

Remote control unit only

MUTE

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

Enhancement of bass

SOUND
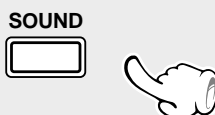
Each press switches the modes as follows.

① **"EX.BASS" lights.**
The low frequencies are enhanced regardless of the current volume level.

② **"LOUD" (Loudness) lights.**
The low 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.

Tone adjustment

Remote control unit only

The lowest and highest frequency bands can be adjusted independently.
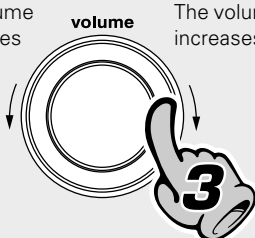
❶ Select the frequency band.

TONE

Each press switches the operation.

① **"BASS" (low frequency) adjustment**

```
BASS     0
```

② **"TREBLE" (high frequency) adjustment**

```
TREBLE   0
```

③ **Normal mode**

(Go to step ❷ within 8 seconds.)

❷ Adjust.

⏮ P.CALL ⏭

(To adjust the other frequency band, repeat steps ❶ and ❷ for it.)

- 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.

15 ^{EN}

Playback of CD

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

Start playback/ To pause playback

Playback from desired track

To stop playback

To stop playback

Skipping tracks

To fast forward and backward

Skipping tracks
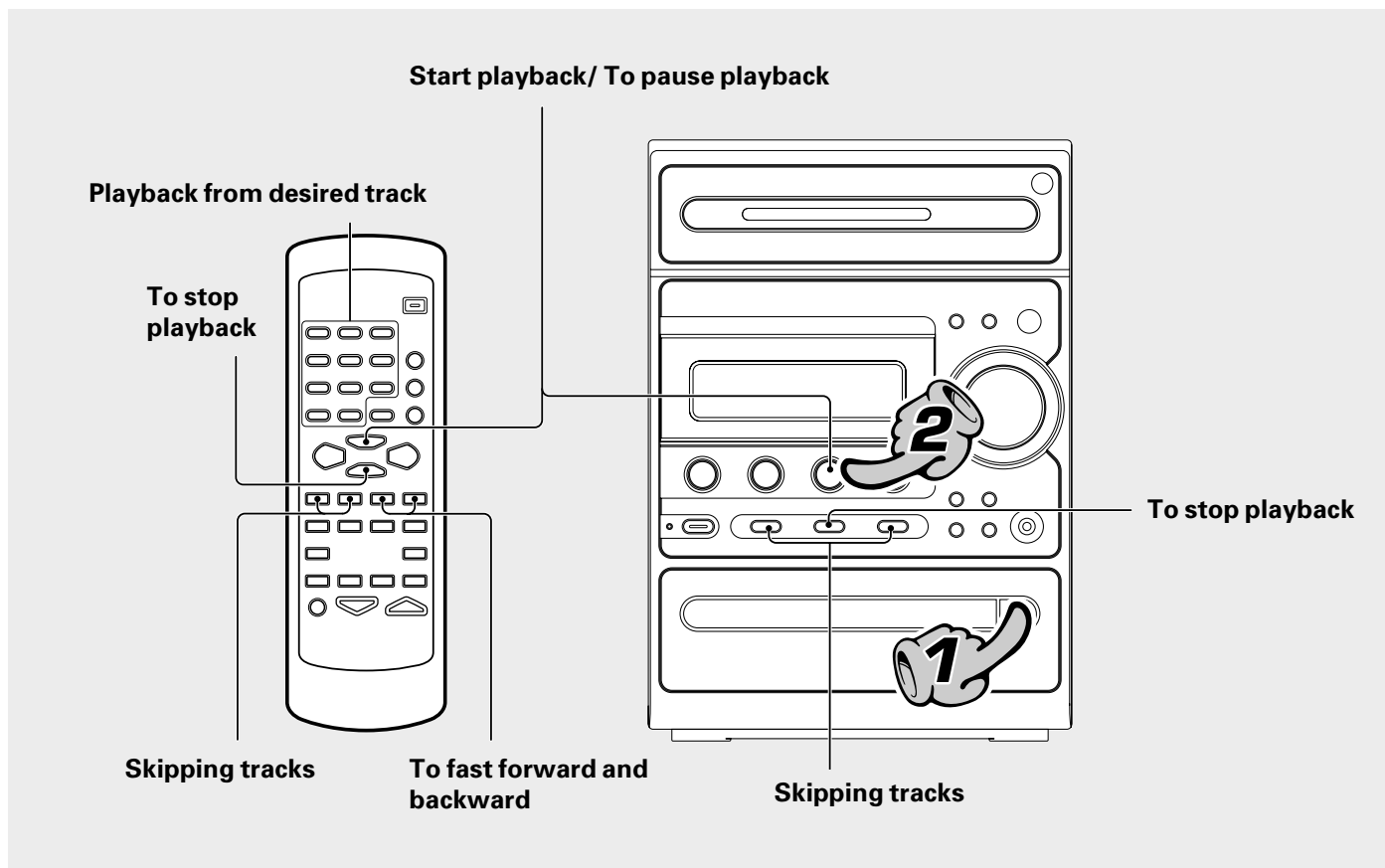
1. Load a disc.

❶ Press the ⏏ key.
❷ Place a disc.
❸ Press the ⏏ key.

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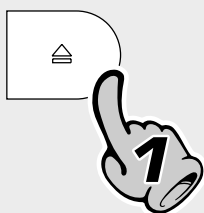
● Do not touch the played side of disc.
● Be sure to place a disc horizontally. Placing it with an inclination will result in malfunction.

2. Start playback.

CD ▶/Ⅱ
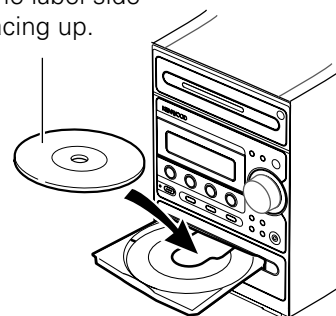
● After a few seconds, play starts from track No.1.

Elapsed time of track being played
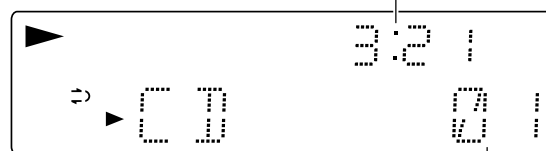
Track No. being played

Start playback/ To pause playback

CD ▶/Ⅱ

● Each press pauses and plays the CD alternately.

To stop playback

STOP ■ **AUTO/MONO**
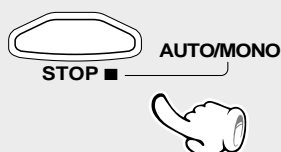
Playback from desired track

Remote control unit only

Select the desired track No.

1	2	3
4	5	6
7	8	9
+10	0	

Press the numeric keys as shown below....
   To select track No. 23 : +10 × 2, 3
   To select track No. 40 : +10 × 4, 0

To fast forward and backward

Remote control unit only

Backward   **◄◄ TUNING ►►**   Forward
search   search
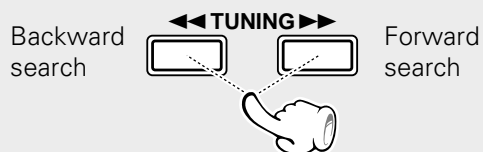
● Press and hold one of the keys during playback. Normal playback resumes at the point where the key is released.
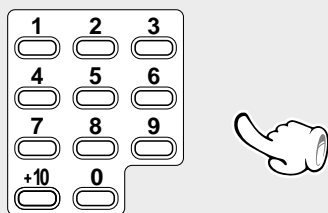
Skipping tracks

To skip   **I◄◄ P.CALL ►►I**   To skip
backward   forward
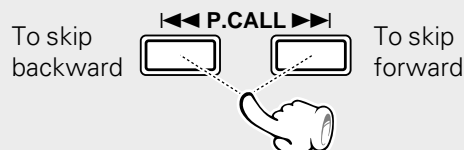
● The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
● When the I◄◄ key is pressed once during playback, the track being played will be played from the beginning.
● To skip further to a track located before the current track, press the I◄◄ key quickly.
● Tracks can be skipped by pressing the I◄◄ or ►►I key even when the CD is in stop mode. In this case, playback starts automatically from the point reached by skipping.

Eject the CD

⏏
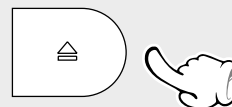
● The CD tray will open. (Pressing the key again closes the CD tray.)

Time display on CD player

Each press of the TIME DISPLAY key changes the displayed contents.

Remote control unit only

●PTY●
TIME DISPLAY   **or**   TIME DISPLAY

(For U.K. and Europe)   (For other countries)

● Only time information ① and ② can be displayed during single-track repeated playback or random playback.
● In the program mode, display ③ shows the elapsed time of the entire program and display ④ shows the remaining time of the entire program.
● When the displayed time is 200 minutes or more, the display shows "**– – : – –**".

① **Elapsed time of track being played**

▶   1:23

② **Remaining time of track being played** ("**REMAIN**" lights up)

▶   REMAIN   2:34
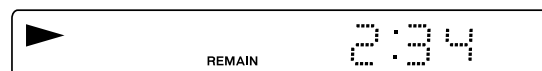
③ **Elapsed time of entire disc** ("**TOTAL**" lights up)

▶   TOTAL   23:45
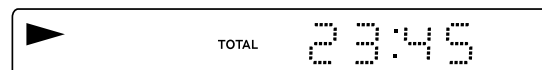
④ **Remaining time on entire disc** ("**TOTAL REMAIN**" lights up)

▶   TOTAL REMAIN   36:15

17 EN
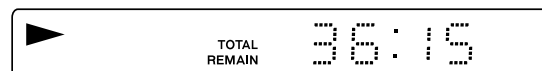
Playback of TAPE

If you load a tape in the cassette deck in advance while the power is off, pressing the TAPE ◄ ► key will turns the power on automatically and starts the tape playback.
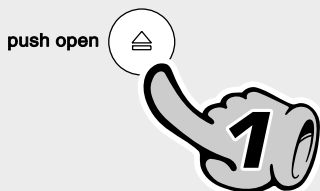
Selection of TAPE equalizer (TAPE EQ.)

Start playback

To stop playback

To wind tape at high speed

Start playback
To stop playback

To wind tape at high speed

1. *Load a cassette tape.*

❶ **Press the area marked ⏏ push open to open the cassette holder.**
❷ **Insert a tape.**
❸ **Press the area marked ⏏ push open to close the cassette holder.**

push open ⏏

> **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 off tape.**

● The tape deck of the unit can play Normal (Type Ⅰ) tapes.
● When there is a tape slack, wind the tape before loading. ➟ 44

2. *Start playback.*

Press the TAPE ◄ ► key.

Displayed when the deck is loaded with a tape.

TAPE ◄ ►

Tape counter

Reverse mode indication

```
          0001
↺ 🔘
►  TAPE
```

Transport direction indicators
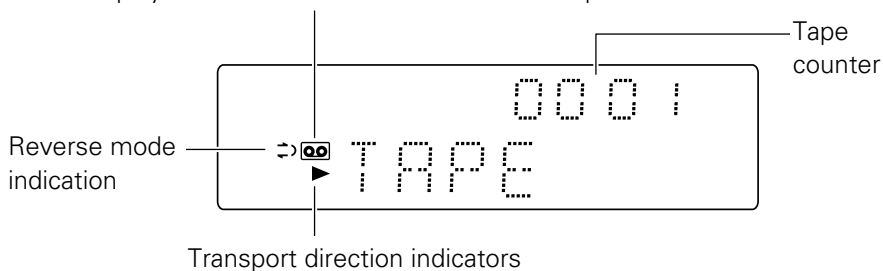
Transport direction indicators:
Indicates the tape transport direction during playback or recording by lighting of ◄ or ►. This direction is the direction stored in memory when the tape was last stopped.

To wind tape at high speed

To fast wind in direction ←   To fast wind in direction →

◄◄ TUNING ►►

- Press the **STOP ■** key to stop fast winding.
- The same operation is also available with the ◄◄ and ►►I keys on the main unit.

Selection of TAPE equalizer (TAPE EQ.)

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

TAPE EQ.   TAPE EQ.

Each press switches the modes as follows.

① **"TAPE EQ." ON**
(TAPE equalizer is used)
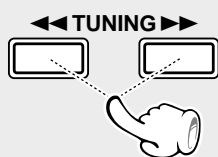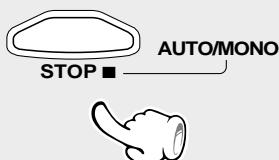
② **"TAPE EQ." OFF**
(TAPE equalizer is not used)

- Select the "**TAPE EQ.**" ON mode according to the recording condition of the tape.
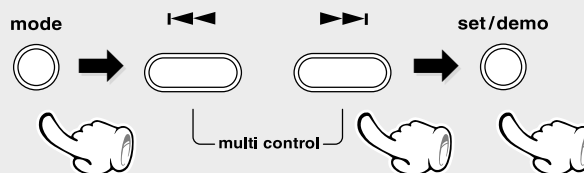
To stop playback

STOP ■   AUTO/MONO

Selection of reverse mode

Main unit only

❶ **Select "TAPE RVS".**

mode   I◄◄   ►►I   set/demo

multi control

❷ **Select.**

I◄◄   ►►I

multi control
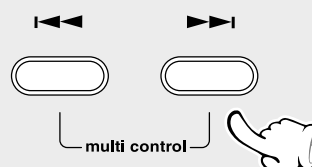
① **" ⊐ " : (ONE-WAY)**
Only one side is played back (recorded), and then the tape stops.

② **" ⊐› " : (REVERSE)**
Both sides are played back (recorded), and then the tape stops.

③ **" ⊂⊐› " : (ENDLESS)**
Both sides are played back endlessly. (The tape stops after recording onto both sides.)

(The initial setting is " ⊐› "(REVERSE))

❸ **Set it.**   set/demo
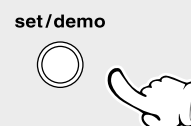
A tip for use of the tape counter

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 decreases 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.

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Receiving broadcast station

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

One-by-one presetting (❸) → ⚁2

Tuning to a non-preset radio station (❶) → ⚁2

Tuning to a non-preset radio station (❷) → ⚁2

One-by-one preset-ting (❷,❹) → ⚁2

Collective presetting of stations

---
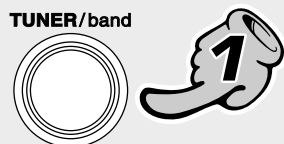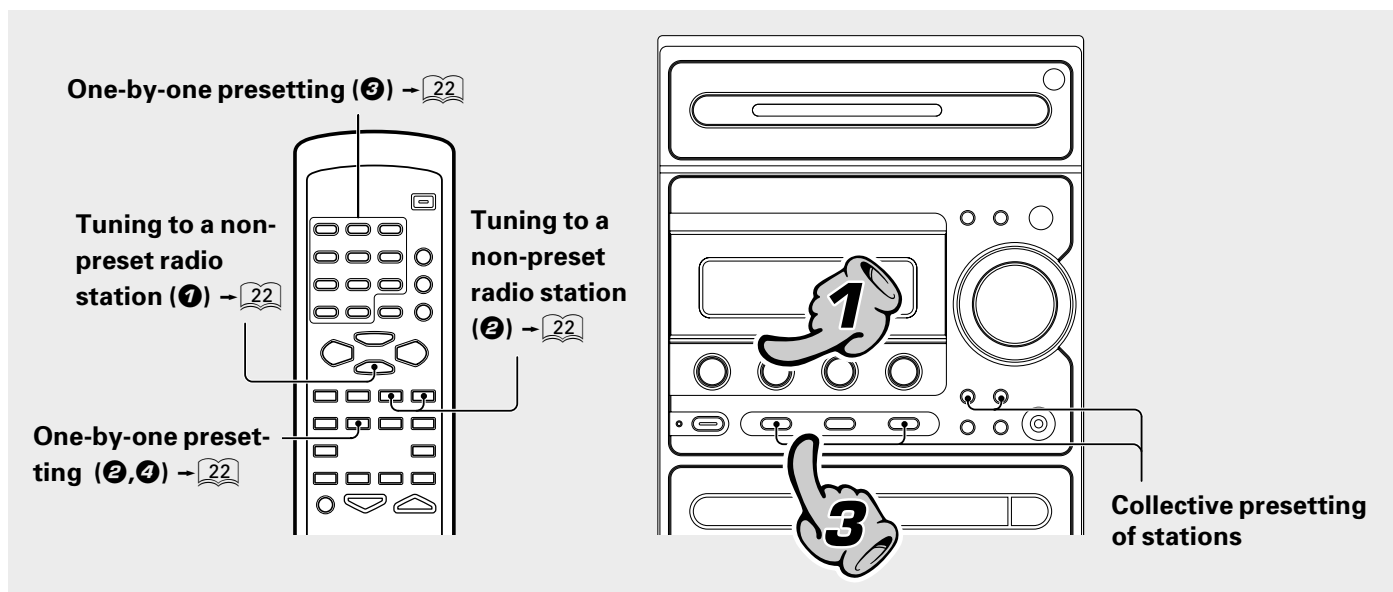
1. Select the tuner input.

Each press of the TUNER/band key switches the band as follows.

FM
AM

---

2. Preset a radio station in memory.

Collective presetting of stations   → ⚁1

Follow the procedure in "**Collective presetting of stations**" to preset automatically the tunable radio stations in your area.

● Once the stations are stored by auto presetting, you are not required to repeat this procedure the next time you listen to radio. However when you shift to another location whereby the broadcast station frequencies are different, you will have to re-execute the presetting of stations.

One-by-one presetting (Manual preset)   → ⚁2

A station can also be tuned even when it is not preset. For details, read "**Tuning to a non-preset radio station (Auto tuning, Manual tuning)**".

---

3. Tuning (Preset Call)

multi control

● If radio stations have already been stored with auto presetting or manual presetting, select a station using the ⏮, ⏭ key. Each press of the same key switches the preset stations in sequence.

The "**TUNED**" indicator lights when a station is received
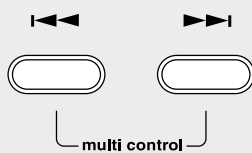
AUTO ((ST)) **TUNED** FM ¦08.00 MHz
▷ ▶ TUNER 02
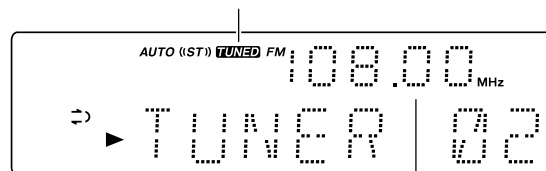
Frequency display

When ⏭ is pressed : 1→2→3 ... 28→29→30→1...
When ⏮ is pressed : 30 → 29 → 28 ..... 3 → 2 → 1 → 30.....

● When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.

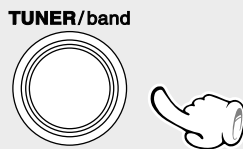● To select a preset station from the remote, use the ⏮ **P.CALL** ⏭ key or numeric keys.
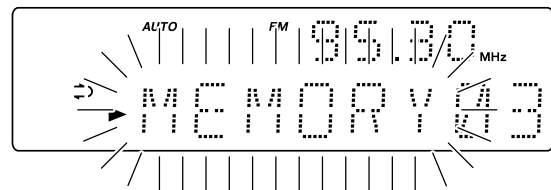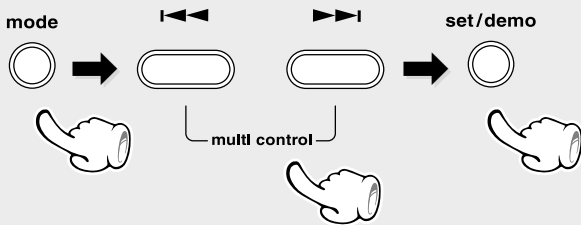
Collective presetting of stations

```
AUTO MEMORY ..... For U.K. and Europe
AUTO PRESET ........ For other countries
```

Main unit only

❶ **Select the tuner input.**

TUNER/band

❷ **Select "AUTO MEMORY ?"**
   (or "AUTO PRESET ?").

mode |◀◀   ▶▶| set/demo

└── multi control ──┘

AUTO   FM 95.30 MHz
↻▶ MEMORY 03

● A maximum of 30 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, U.K., Europe and Australia)*

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

Main unit only

❶ **Turn power on.**

❷ **While holding TUNER/band key pressed, turn the volume knob to select "FM 50 k" or "FM 100 k".**

TUNER/band   **volume**

❸ **Set it.**

set/demo
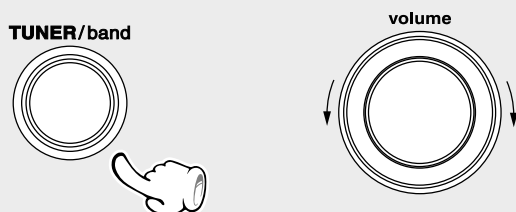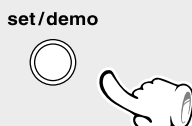
Each press switches the space frequency alternately.

① **FM 50 k**

`FM    50K`
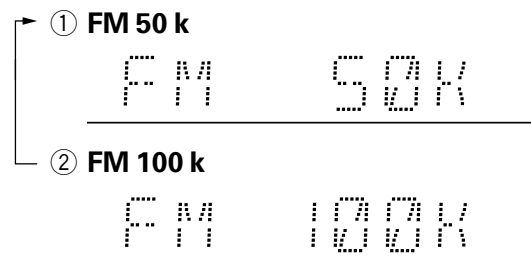
② **FM 100 k**

`FM   100K`

● At FM 50 kHz, the corresponding AM frequency is 9 kHz. At FM 100 kHz, the corresponding AM frequency is 10 kHz.

	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

21 ^{EN}

Tuning to a non-preset radio station (Auto tuning, Manual tuning)

Select the tuning mode according to the radio wave receiving condition.

> **When the receiving condition is good: AUTO mode**
> **When it is poor due to weak radio waves: MANUAL mode**

❶ Select the AUTO or MANUAL mode.

AUTO/MONO
STOP ■

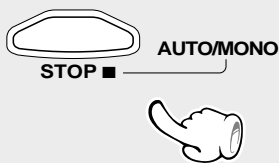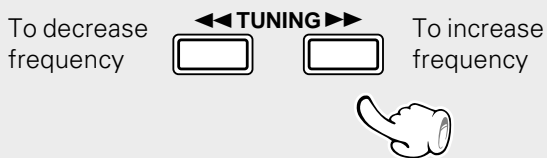**❷ Tune a station.**

To decrease frequency ◄◄ **TUNING** ►► To increase frequency

● In MANUAL mode, FM stations are received in monaural.

– –

Each press alternates the mode.
> ① **"AUTO" :**
> Stereo reception ("**AUTO**" lit)
> ② **"MANUAL" :**
> Monaural reception ("**AUTO**" not lit)

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

– –

In AUTO mode :
> The next preset station can be received automatically every time the TUNING (◄◄ or ►►) key is pressed.

In MANUAL mode :
> Press the TUNING (◄◄ or ►►) key repeatedly until the desired station is received. The desired station can also be received by holding the TUNING (◄◄ or ►►) key depressed until its frequency is displayed.

One-by-one presetting (Manual preset)
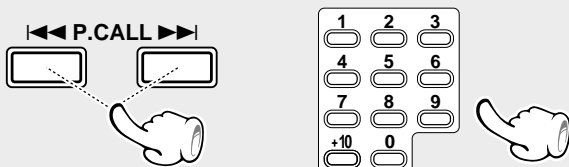
| Remote control unit only |

❶ Perform the procedure in "Tuning to a non-preset radio station (Auto tuning, Manual tuning)" to receive the station to be preset.

❷ Press the ENTER key during reception.
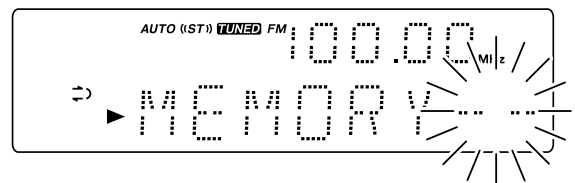
ENTER

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

❸ Select one of the preset numbers from 1 to 30.

I◄◄ P.CALL ►►I

1	2	3
4	5	6
7	8	9
+10	0	

❹ Press the ENTER key again.

ENTER

(Repeat steps ❶, ❷, ❸ and ❹ to preset other stations)

AUTO ((ST)) TUNED FM ¦ 100.00 MHz

►MEMORY – –

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

● A maximum of 30 stations of the band presently being received will be preset.

– –

AUTO ((ST)) TUNED FM ¦ 100.00 MHz
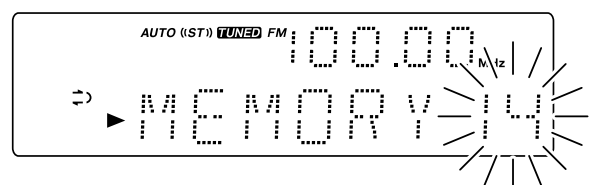
►MEMORY 14

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

22 ^{EN}

RDS (Radio Data System) (For U.K. and Europe)

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 : → 24

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.

> AUTO ((ST)) **TUNED** FM　　100.00 MHz
> RDS
> ▶ BBC
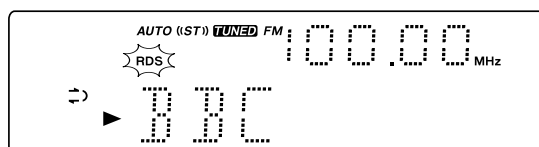
● Some functions may not be provided or be given different names depending on countries or areas.

Before using RDS

For reception of RDS stations, the auto memory function must be used to preset the stations. During the auto memory function, the presetting sequence priority will be given to the RDS stations.

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.
However, if a station is not preset by auto memory, "NO DATA" will flash instead of the program (genre) type and PTY search is not available.

Set the reception band to FM. Preset RDS stations with the auto memory function. → 21

1 Select the PTY search mode.

Remote control unit only

●PTY●
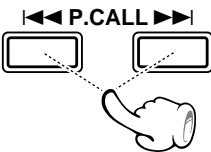TIME DISPLAY

AUTO ((ST)) TUNED FM 100.00 MHz
RDS PTY
► ROCK M
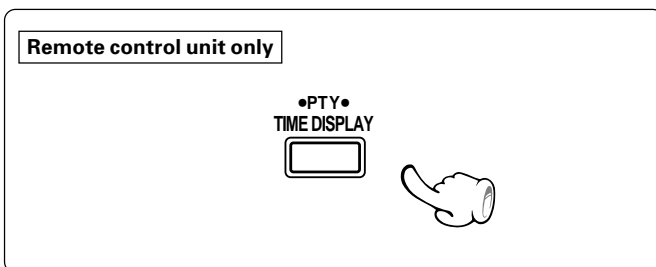
When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

2 Select the desired program type.

Use program type table on the right for your convenience.

Selection with the I◄◄ or ►►I key.

I◄◄ P.CALL ►►I

Select while "**PTY**" is lit.

The desired program type can be selected with the I◄◄ or ►►I key from 29 types. Press the key and release it when the desired type is displayed.

Program type table

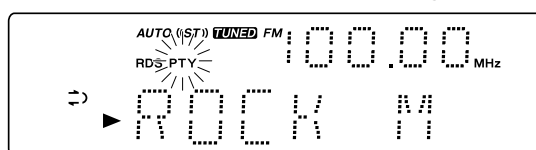| I◄◄, ►►I keys	Program Type Name	Display
I◄◄ DOWN ↕ UP ►►I	Pop Music	POP M
	Rock Music	ROCK M
	Easy Listening Music	EASY M
	Light Classical	LIGHT M
	Serious Classical	CLASSICS
	Other Music	OTHER M
	News	NEWS
	Current Affairs	AFFAIRS
	Information	INFO
	Sport	SPORT
	Education	EDUCATE
	Drama	DRAMA
	Culture	CULTURE
	Science	SCIENCE
	Varied	VARIED
	Weather	WEATHER
	Finance	FINANCE
	Children's programs	CHILDREN
	Social Affairs	SOCIAL
	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

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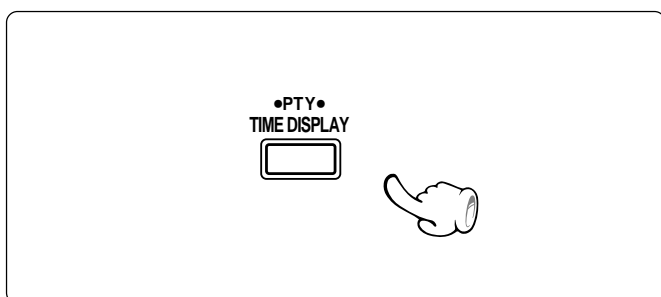
- No sound is heard while "**PTY**" is blinking.
- If a program of the desired type cannot be found, "**NO PROG**" is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display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

To change to a different program type :

Repeat steps 1, 2, 3.
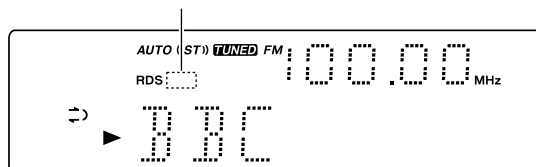
When searching for a Rock Music broadcast

Display while the tuner is searching.
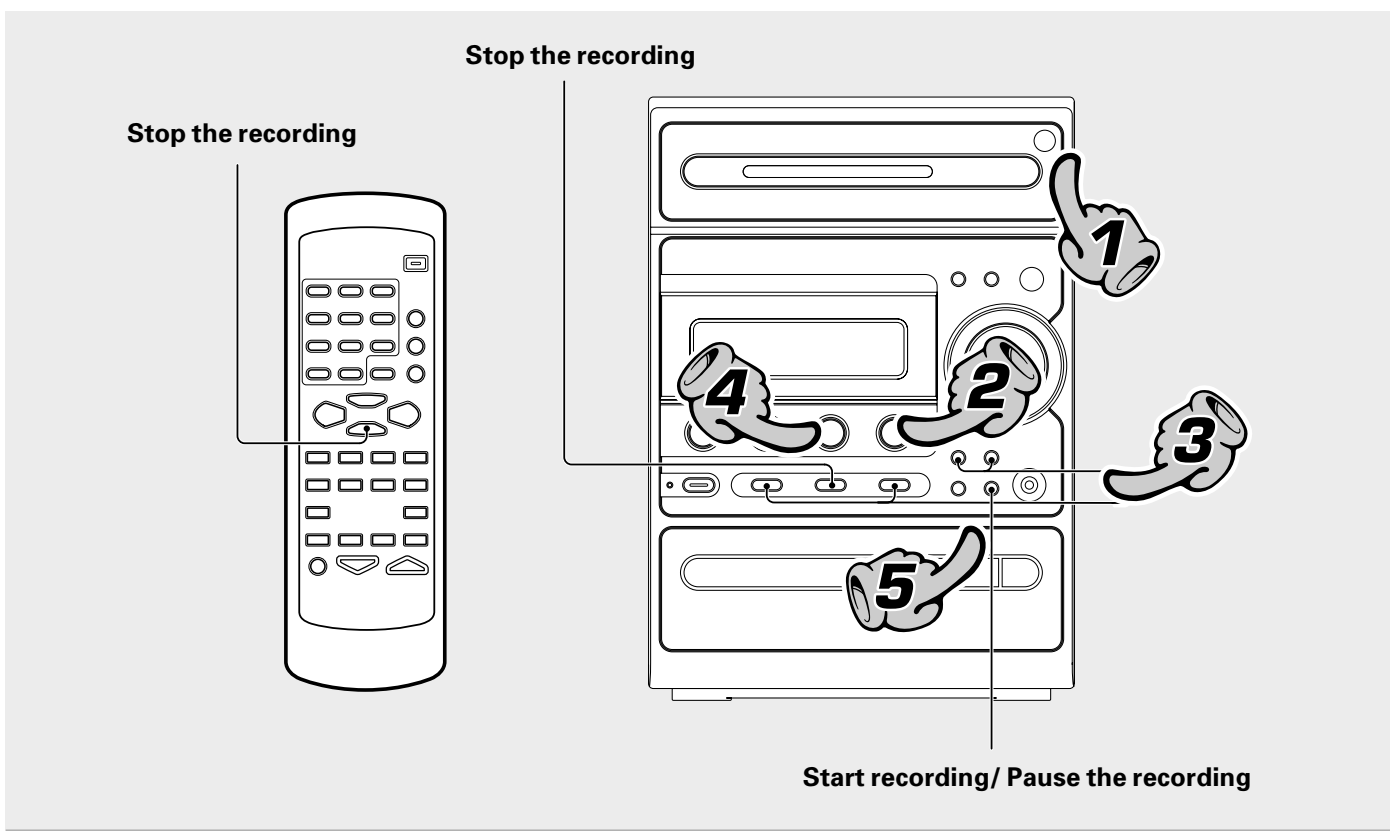

Program type name display.
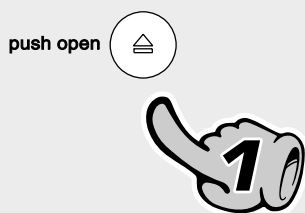
When a station is received.

Goes off

Station name display.

Recording on TAPE

The tape deck of the unit can record signals only on Normal (Type Ⅰ) tapes. It cannot record on High (Type Ⅱ) and Metal (Type Ⅳ) tapes.

Stop the recording

Stop the recording

Start recording/ Pause the recording

1. Load a tape in deck.

❶ Press the area marked ⏏ push open to open the cassette holder.

❷ Insert a tape.

❸ Press the area marked ⏏ push open to close the cassette holder.

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 off tape.

push open ⏏

● When there is a tape slack, wind the tape before loading.

2. Select the tape transport direction.
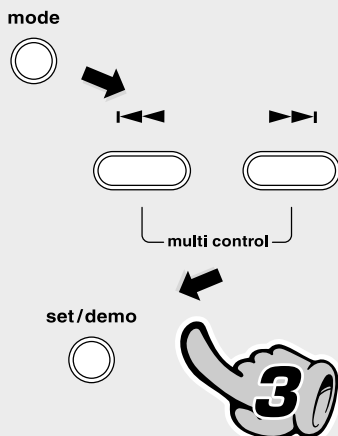
TAPE ◀ ▶

To reverse the transport direction :

❶ Press the TAPE ◀ ▶ key.

❷ Stop playback.

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

Check the tape transport direction indicator.

● Search the position you want to start recording in advance.

mode

◀◀ ▶▶|

└─ multi control ─┘

set/demo

3. *Set the recording condition.*

Select the reverse mode. →⁗19⁗

● Check the tape transport direction before starting recording. If it is set to the reverse direction, only one side of tape can be recorded regardless of the reverse mode setting made here.
● The tape equalizer is defeated during recording.

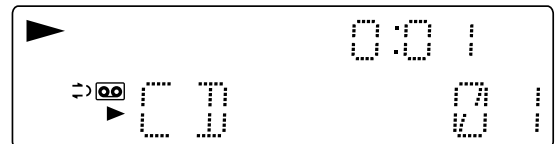**Select an input source other than "TAPE"**

| Example: To select the CD input |

CD ▶/||
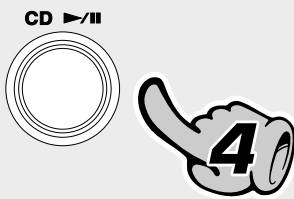
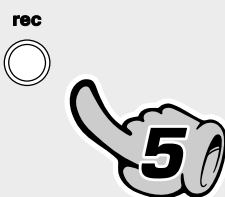## 4. *Select the source to be recorded.*

CD
TUNER (Broadcasts)

AUX (External input) [Adjusting the AUX input level →⁗36⁗ **]**

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

▶   0:01

⤵⥀ 🔲 CD   01
▶ └── ┘

The character information display shows the re-cording input source.

---

5. *Start recording.*

rec

❶ **Press the rec key.**
❷ **Play (or tune) the input source to be recorded.**

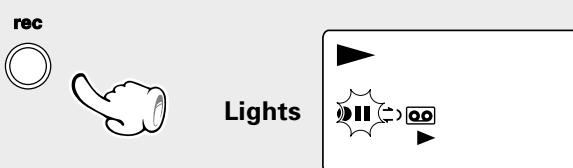- -

While recording from tuner input, beat sound can be minimised by pressing the set/demo key.
Each press switches the modes as follows.

　① **"BEAT CANCEL ON"** :
　　(Beat Cancel is activated)
　② **"BEAT CANCEL OFF"** :
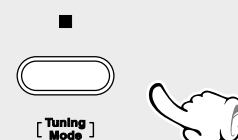　　(Beat Cancel is deactivated)

- -

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

Pause the recording

rec

Lights ▶
　　　　　)∦|(⤵⥀🔲
　　　　　▶

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

Stop the recording

■

[Tuning Mode]

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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 when the CD starts to be played.

❶ Put the CD player in pause mode.

❷ Select the track to be recorded with the skip (◄◄, ►►) keys. (The CD player pauses at the beginning of the selected track.)

❸ Put the cassette deck in Record-pause mode. (Press rec key twice)

❹ Start playing the CD. (Recording starts)

● To stop recording, press the ■ key.
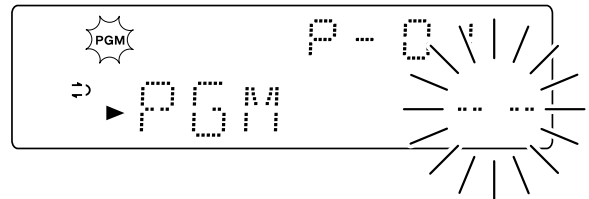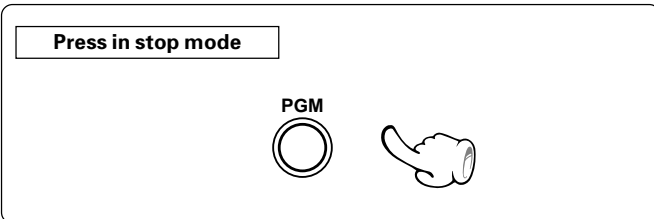
28 ^{EN}

Various CD playback features

Listening to the desired sequence *(program playback)*

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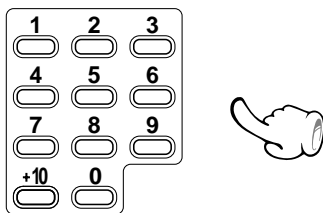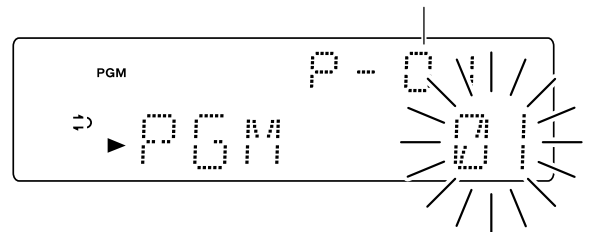
Select the CD input.

1 Select "PGM" mode.

| Press in stop mode |

PGM

PGM   P - 0

⇄ ► PGM

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

❶ **Select the track.**

1	2	3
4	5	6
7	8	9
+10	0	

(Go to step ❷ within 20 seconds.)

❷ **Confirm the selection.**

SET

(To select more than one track, repeat steps ❶ and ❷ for each track.)

Program position of the track to be selected next.

PGM   P - 0
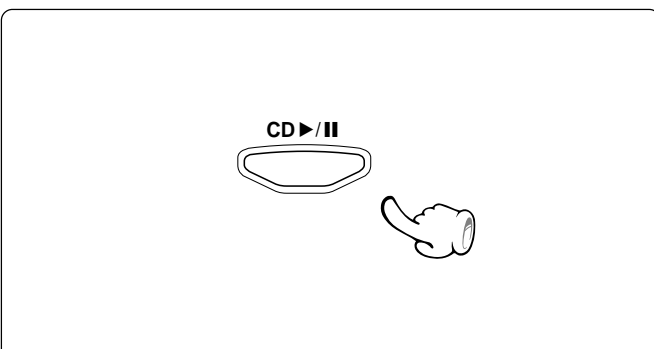
⇄ ► PGM   01

Selection of tracks

Press the numeric keys as shown below....
   To select track No. 23   : +10 x 2, 3
   To select track No. 40   : +10 x 4, 0

● Up to 32 tracks can be programed. When "**PGM FULL**" is displayed, no more tracks can be programed.
● 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.
● When the total time of CD program is 200 minutes or more, the time display shows "—— : — —".
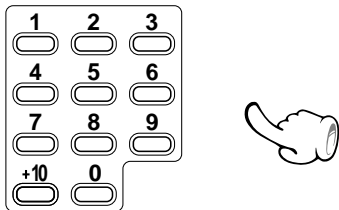
3 Start playback.

CD ►/ II

● Tracks will be played in the order they were programed (following the program numbers).
● When the I◄◄ key is pressed once during playback, the track being played will be played from the begining.
To skip further to a track preceeding the current track, press the I◄◄ key twice repeatedly.
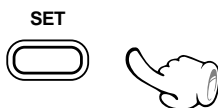● When the ►►I key is pressed during playback, play will skip to the next track in the program.

To add a track to an existing program

❶ **Select the track number to be added with the numeric keys.**

| Press in stop mode |

1	2	3
4	5	6
7	8	9
+10	0	

Press the numeric keys as shown below....
  To select track No. 23 : +10 × 2, 3
  To select track No. 40 : +10 × 4, 0

❷ **Press the SET key.**

SET

● Up to 32 tracks can be programed. When "**PGM FULL**" is displayed, no more tracks can be programed.
● 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.

To clear a programed track
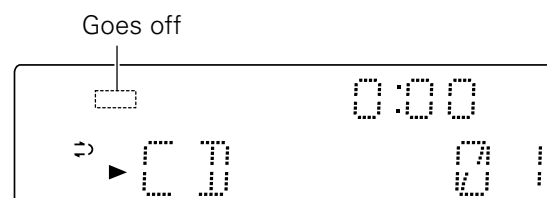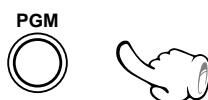
| Press in stop mode |

CLEAR

PGM   0:00
↺ ▶P-05 CLR
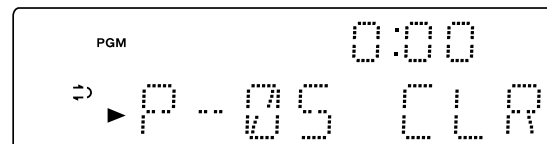
P-5 has been deleted

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

To clear the entire program

| Press in stop mode |

PGM

Goes off

0:00
↺ ▶CD   01

Note The program mode is canceled when the unit is turned off or the programed disc is ejected. The set program is cleared entirely at this time.

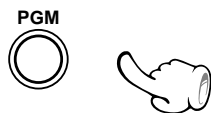# Repeated playback

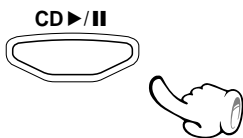**You can repeatedly listen to a favorite track or disc.**

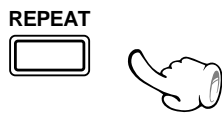*Select the CD input.*

Setup for repeating a single track

❶ **Confirm that the "PGM" indicator is not lit.**

PGM

❷ **Play the track to be repeated.**

CD ▶/Ⅱ

❸ **Select "⟳ 1".**

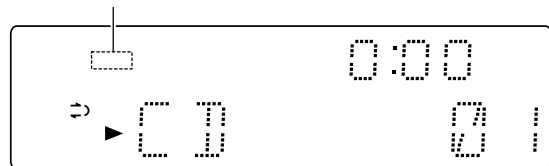**REPEAT**

● If the "**PGM**" indicator is lit, turn it off by pressing the **PGM** key in stop mode to cancel the program mode.

Confirm that this is not lit.

```
                    0:00
 ⇄ ▶ [ ]            0 1
```

Each press switches the repeat mode.

① **"⟳ 1"**
one repeat
② **"⟳"**
all repeat
③ **Off....**
Repeat deactivated

```
 ▶  ⟳1
 ⇄ ▶ [ ]
```

Setup for repeating all tracks in a disc

❶ **Confirm that the "PGM" indicator is not lit.**
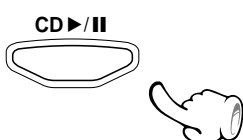
PGM

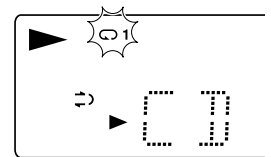❷ **Select "⟳".**

REPEAT

❸ **Start playback.**

CD ▶/Ⅱ

● If the "**PGM**" indicator is lit, turn it off by pressing the **PGM** key in stop mode to cancel the program mode.
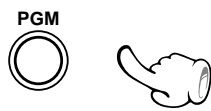
Confirm that this is not lit.

```
                    0:00
 ⇄ ▶ [ ]            0 1
```

Each press switches the repeat mode.

① **"⟳ 1"**
one repeat
② **"⟳"**
all repeat
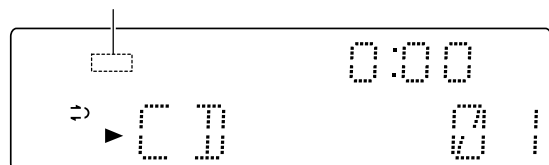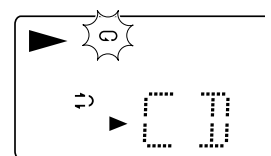③ **Off....**
Repeat deactivated

```
 ▶  ⟳
 ⇄ ▶ [ ]
```

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Setup for repeating selected tracks

❶ Program the track sequence according to steps ❶ to ❷ of "Listening to the desired sequence (program playback)". → 29

❷ Select "◯".

REPEAT

❸ Start playback.

CD ►/II
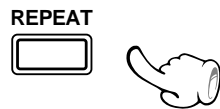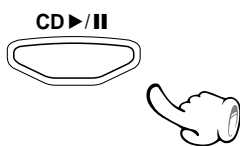
Each press switches the repeat mode.

① **"◯"** all repeat
② **Off....** Repeat deactivated

► PGM   0:01

⮐ ► CD   01
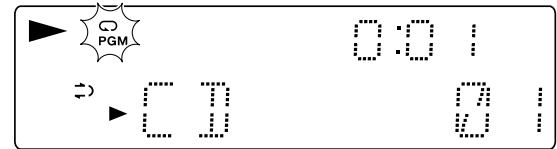
● All selected tracks will be repeated.

To stop repeated playback

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

● The "◯" indicator turns off and playback according to the current CD player mode.

Playing tracks in a random order (random playback)

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

Select the CD input.

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

PGM

❷ Press the RANDOM key.

RANDOM

● If the "**PGM**" indicator is lit, turn it off by pressing the **PGM** key in stop mode to cancel the program mode.

Each press switches the modes as follows.

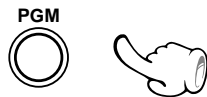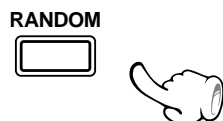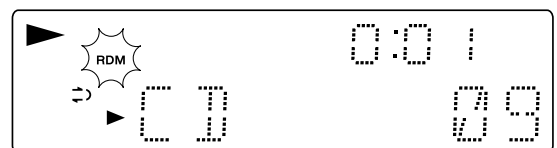① **"RDM" on** (Random playback)
② **"RDM" off** (Normal playback)

► RDM   0:01

⮐ ► CD   09

● Playback stops after each track 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

I◄◄ P.CALL ►►I
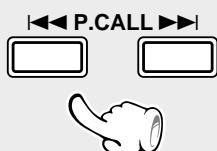
● Pressing the I◄◄ key returns the playback position to the beginning of the track being played.

To cancel random playback

Press so that the "RDM" indicator is turned off.

RANDOM

● The "**RDM**" indicator goes off and the playback in order of the tracks starts from the track being played.

Convenient recording methods

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

The tape deck of the unit can record signals only on Normal (Type Ⅰ) tapes. It cannot record on High (Type Ⅱ) and Metal (Type Ⅳ) tapes.

To record CD with a simplified method (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 (CD → TAPE)   → ▭35

| *Program recording* | ➡ | Recording of programed tracks in the programed order. (Convenient for recording only the desired CD tracks in the desired order.) |

Note 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)

The tape deck of the unit can record signals only on Normal (Type I) tapes. It cannot record on High (Type II) and Metal (Type IV) tapes.
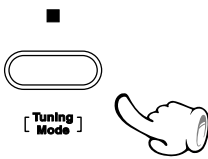
Be sure to put the cassette deck in stop mode.
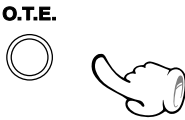
1 *Make preparation for recording.*

❶ **Perform steps 1 to 3 of the procedure in "Recording on TAPE".** → 26

❷ **Ensure that the "PGM" and "RDM" indicators are not lit.**

❸ **Insert disc in the CD player.**

- If the "**PGM**" indicator is lit, turn it off by pressing the **PGM** key in stop mode to cancel the program mode.
- If the "**RDM**" indicator is lit, turn it off by pressing the **RANDOM** key to cancel the random play mode.

2 *Check the current play mode of the CD player.*

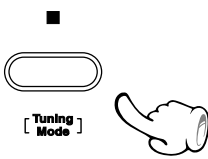| *All-track recording*	*Single-track recording*
If it is in play mode, stop it. ■ [Tuning Mode]	**Select the desired CD track and play it.** ● When step 3 is performed in the middle of CD play-back, the current track will be recorded from the beginning. **(To record other tracks, repeat steps 2 and 3 for each track)**

3 *Start recording.*

O.T.E.

If you are operating the remote, the same effect as step 3 can be obtained by simply pressing the O.T.E. key to start recording.

● When either playback or recording stops, the other operation is stopped automatically.

To interrupt a recording

■

[Tuning Mode]

(Recording and playback will be stopped)

At the end of the recording
Cassette deck : **Stop is executed after an unre-corded portion of about 4 sec. has been produced.**

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Program recording *(CD→TAPE)*

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

The tape deck of the unit can record signals only on Normal (Type I) tapes. It cannot record on High (Type II) and Metal (Type IV) tapes.

Be sure to put the cassette deck in stop mode.

1 *Make preparation for recording.*

❶ **Select the CD input.**
❷ **Ensure that the "RDM" indicators are not lit.**
❸ **Perform steps 1 to 3 of the procedure in "Recording on TAPE".** →📖26
❹ **Insert disc in the CD player.**

● If the "**RDM**" indicator is lit, turn it off by pressing the **RANDOM** key to cancel the random play mode.

2 *Program the desired sequence of CD tracks.*

Perform steps ❶ and ❷ of the procedure in "Listening to the desired sequence (program playback)". →📖29

● When the **PGM** key is pressed to cancel the edited contents, the entire editing contents will be erased. →📖30
● Tracks programed beyond the available tape recording time will be interrupted in the middle.

3 *Start recording.*

O.T.E.

If you are operating the remote, the same effect as step ❸ can be obtained by simply pressing the O.T.E. key to start recording.

● Recording starts from the first track in the program and ends after having recorded the entire programed tracks.
● Recording stops automatically when the program playback of CD has completed.
● When either playback or recording stops, the other operation is stopped automatically.
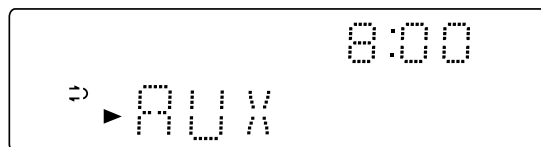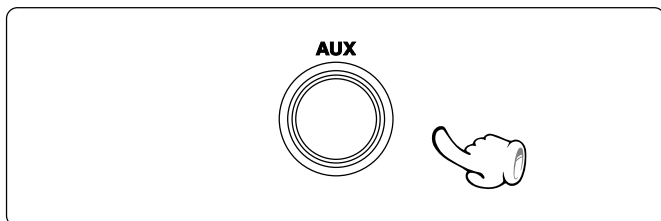
To interrupt a recording

■

[Tuning Mode]
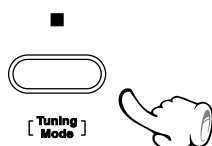
(Recording and playback will be stopped)

At the end of the recording
Cassette deck   :   Stop is executed after an unrecorded portion of about 4 sec. has been produced.
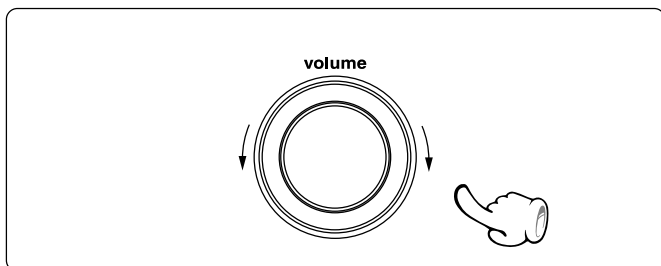
Listening to an AUX input source

1 Select AUX (external input).

AUX

```
                       8:00
  ⇄ ► AUX
```

2 Play the connected equipment.
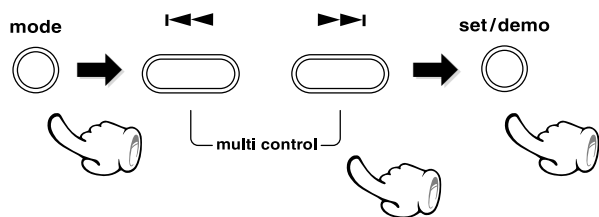
3 Adjust the volume.

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.
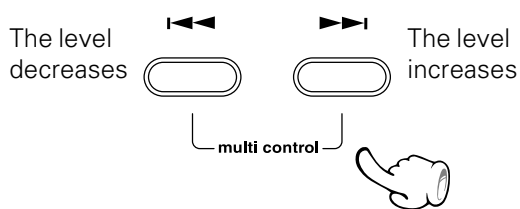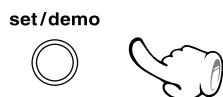
❶ Press the AUX key.

❷ Select "INPUT   ?".

mode |◄◄   ►►| set/demo

multi control

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

❸ Adjust the input level.

The level decreases |◄◄   ►►| The level increases

multi control

❹ Set it.   set/demo

Each press switches the display contents.

> "TAPE RVS"
> "INPUT   ?"
> "TIMER   ?"
> "TIME ADJUST   ?"
> "APS   ?"

```
  ⇄ ► LEVEL   -2
```
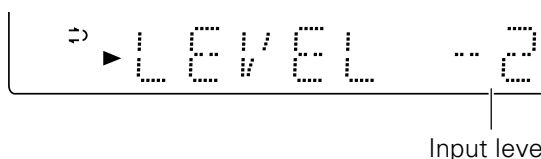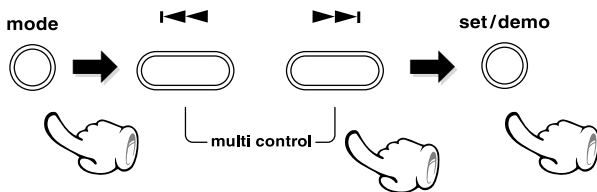
Input level

- Adjustment is possible from the range of − 3 to + 2.
- Adjusting the input level control also varies the recording level from the input source connected to the AUX input jacks.
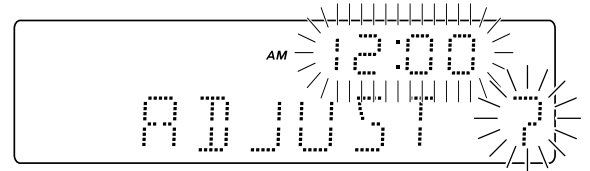
36

Clock adjustment

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

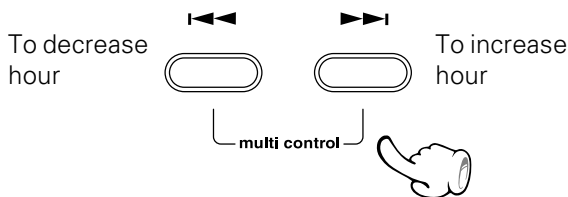## 1 Activate the Clock adjustment mode.

❶ Select " TIME ADJUST ?"

mode   ⏮   ⏭   set/demo

└─ multi control ─┘

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

AM 12:00
ADJUST ?

● The time display starts to blink.

2 Adjust the hour.

❶ Select the figure of hour.
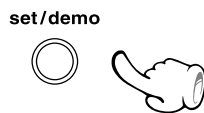
To decrease hour   ⏮   ⏭   To increase hour

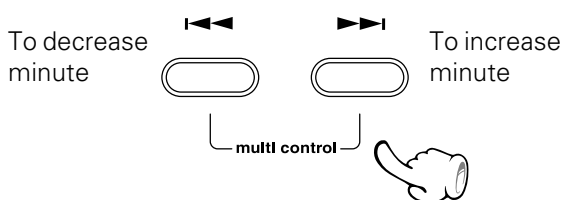└─ multi control ─┘

❷ Set it.

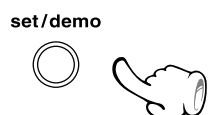set/demo

Example: Adjustment to 8:07

AM 8:00
ADJUST
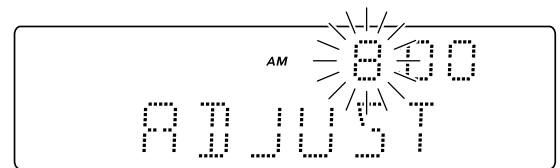
● In other areas than the U.K. and Europe the clock shows the time of the day in the 12-hour system.
● Press the **set/demo** key. The hour is entered and the minute display starts to blink.

3 Adjust the minute.

❶ Select the figure of minute.

To decrease minute   ⏮   ⏭   To increase minute

└─ multi control ─┘

❷ Set it.

set/demo

Example: Adjustment to 8:07

AM 6:07
ADJUST
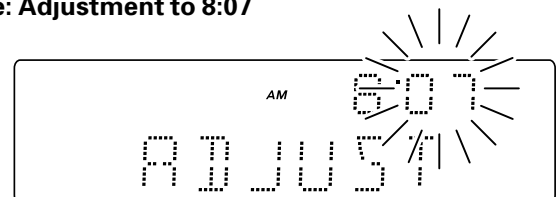
● If you make a mistake, restart from the beginning.
● When the time of day has been set by pressing the **set/demo** key, the display shows "**COMPLETE**".
● After a power failure or the power cord has been unplugged, the time set will be erased. You have to set the time again when unit is switched on.
● When the ■ key is pressed while the power is in the standby mode, the time of the day will be displayed for 5 seconds.

37 EN

Timer operation

Sleep timer (SLEEP)

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

Timer playback, timer recording (PROG 1, PROG 2) → 39

Playback of the selected input source or recording of the TUNER or AUX input starts at the specified time.

AI timer playback (PROG 1, PROG 2) → 39

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

Sleep timer (SLEEP)

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

Connect the related equipment under reference to "System connection" → 6 ~ → 8
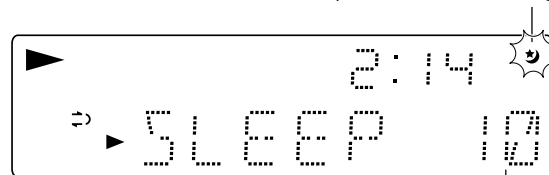
Set the time.

SLEEP

The system has been set up so that the display is dimmed automatically while the sleep timer is activated.

- 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 .....

  Sleep timer indicator lights

  ▶   2:14 🌙
  ⇄ ▶ SLEEP 10

  Duration for sleep timer

- Press the **SLEEP** key while the sleep timer is activated to check the remaining time.

To cancel

Turn the unit OFF or press the SLEEP key until the sleep timer is canceled.

Setting the timer program *(PROG. TIMER)*

In each of PROG 1 and PROG 2, the timer data including the operating period and played contents can be program and set to be activated or deactivated.

Adjust the clock before setting the timer → 37
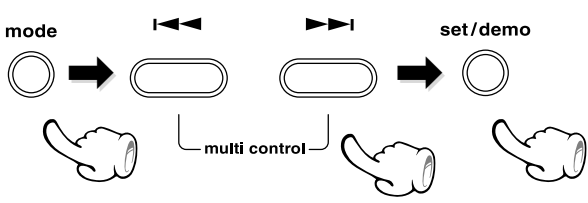*Connect the related equipment under reference to "System connection"* → 6 ~ → 8

1 *Make preparations for the play (recording).*

To listen to CD
Insert a disc. (Program playback is not possible.)

To listen to tape
Insert a tape.

For recording
Make preparations for recording. → 26

To listen to radio
The station should be preset prior. → 21

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

● Two timer settings can be reserved independently in two programs PROG 1 and PROG 2.
● 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.
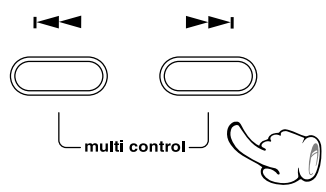
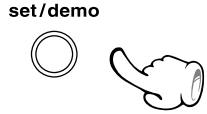## 2 *Set the timer setting program number.*

❶ **Select "TIMER   ?".**

mode   ⏮   ⏭   set/demo

multi control

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

❷ **Select "PROG 1 ?" or "PROG 2 ?".**
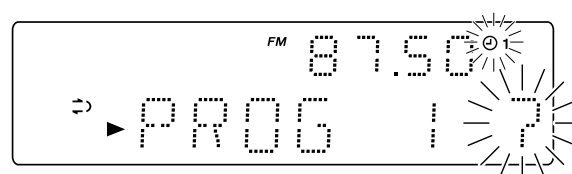
⏮   ⏭

multi control

❸ **Set it.**

set/demo

Each press switches the display contents.

→ **"TAPE RVS"**
"AUTO PRESET ?" or **"AUTO MEMORY ?"**
(Only when the TUNER input is selected)
"INPUT   ?"
(Only when the AUX input is selected)
"TIMER   ?"
"TIME ADJUST   ?"
→ **"APS   ?"**

Each press switches the display contents.

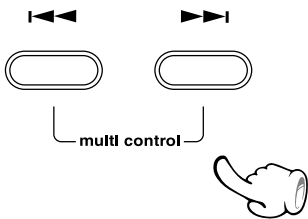→ ① **"PROG 1 ?"**
→ ② **"PROG 2 ?"**

FM 87.50 ⊙1
► PROG 1 ?

● The previously set contents are displayed. (If you do not want to change them, simply press the **set/demo** key.)
● When a timer setting has already been made in the selected timer, the setting will be overwritten by the new setting.
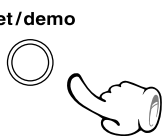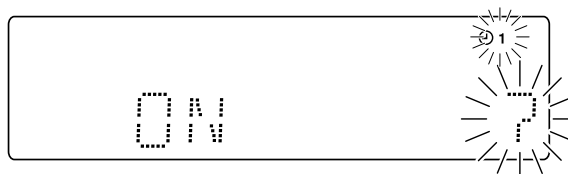
39 **EN**

3 *Select the program timer ON/OFF.*

❶ Select "ON ?" or "OFF ?"
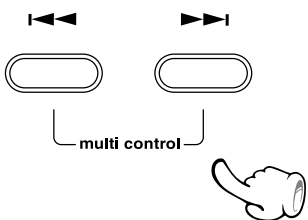
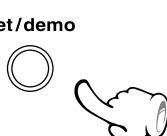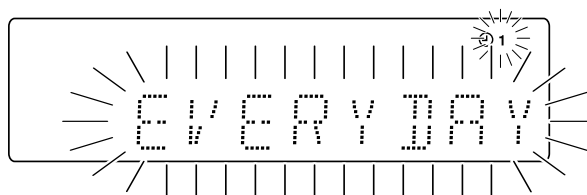|◀◀   ▶▶|

multi control

❷ Set it.

set/demo

ON   ?

● If OFF is selected, the key function return to ordinary mode.

4 *Select ONETIME or EVERYDAY execution of the programed timer.*

❶ Select "ONETIME" or "EVERYDAY"

|◀◀   ▶▶|

multi control

❷ Set it.

set/demo
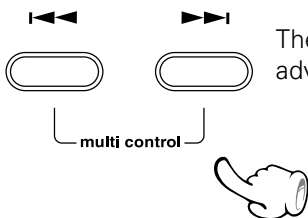
EVERYDAY

● In the ONETIME mode, the timer is set OFF after execution.
● In the EVERYDAY mode, the timer is executed everyday.

5 *Set the ON time then the OFF time.*
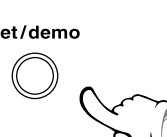
❶ Adjust the time.

The time is returned |◀◀   ▶▶| The time is advanced

multi control

❷ Set it.

set/demo

8:00
ON TIME

9:00
OFF TIME
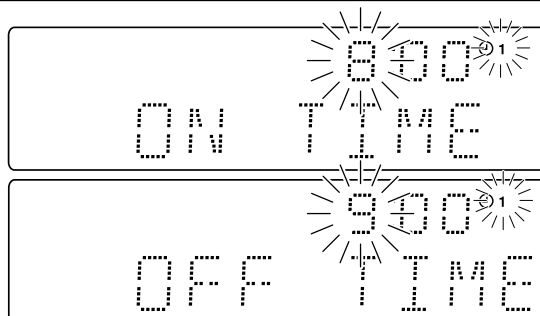
● In other areas than the U.K. and Europe the clock shows the time of the day in the 12-hour system.
● For each of the ON time and OFF time, enter the figure of "hour" by performing steps ❶ and ❷ then enter the figure of "minute" in the same manner.
● If you make a mistake, press the **mode** key and restart from step **2**.

40 EN

6 *Make the desired reservation.*

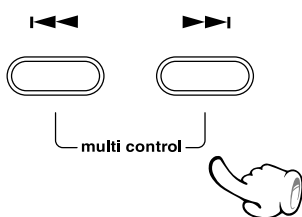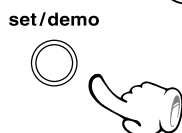| *For timer playback or AI timer playback* | *For timer recording* |

➊ Select the mode.

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

    ① **"PLAY"**
    (Timer play)
    ② **"REC"**
    ③ **"AI PLAY"**
    (Timer play with gradually increasing volume)

    |◄◄   ►►|

multi control

(2) Set it.   set/demo

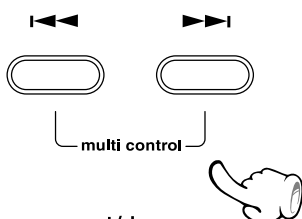**➋ Adjust the volume level**

    |◄◄   ►►|

multi control
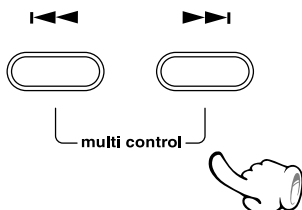
● When "**PLAY**" is selected, the timer playback will start at the set volume level.
● When "**AI PLAY**" is selected, the timer playback will start at volume 0 and increase to the set volume level.

➌ Select the input source.

(1) Select the source to be played.

    ① **"TUNER"**
    (Broadcasts)
    ② **"CD"**
    ③ **"TAPE"**
    ④ **"AUX"**
    (External input / video, etc.)

    |◄◄   ►►|

multi control

(2) Set it.   set/demo
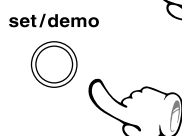
Continued on next page

➊ Select the mode.

(1) Select "REC".

    ① **"PLAY"**
    ② **"REC"**
    ③ **"AI PLAY"**

    |◄◄   ►►|

multi control

(2) Set it.   set/demo

➋ Adjust the volume level

    |◄◄   ►►|
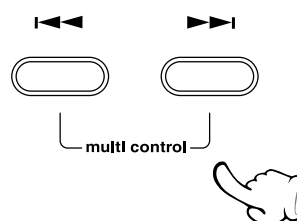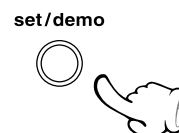
multi control
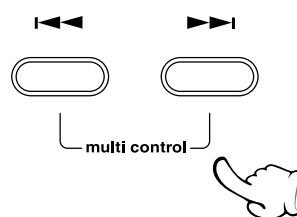
● When "**REC**" is selected, the timer recording will start at the set volume level.

➌ Select the input source.

(1) Select what is to be recorded.

    ① **"TUNER"**
    (Broadcasts)
    ② **"AUX"**
    (External input / video, etc.)
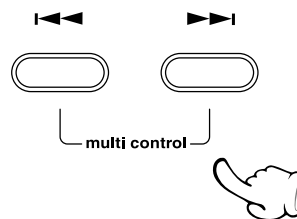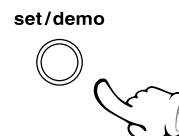
    |◄◄   ►►|

multi control

(2) Set it.   set/demo

Continued on next page

41 EN

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

   (1) Select the preset station No.

        I◀◀   ▶▶I

            multi control

   (2) Set it.

         set/demo

● When the timer setting is completed by pressing the **set/demo** key, "**COMPLETE**" is displayed.

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

   (1) Select the preset station No.

        I◀◀   ▶▶I

            multi control
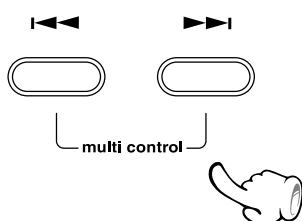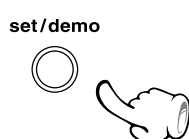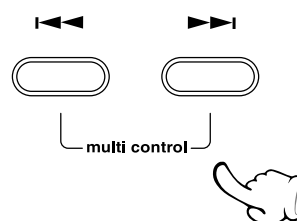
   (2) Set it.
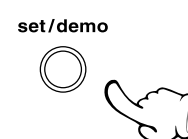
         set/demo

● When the timer setting is completed by pressing the **set/demo** key, "**COMPLETE**" is displayed.

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

7 *Put the unit in standby mode.*

    ⏻   **POWER**

   **or**
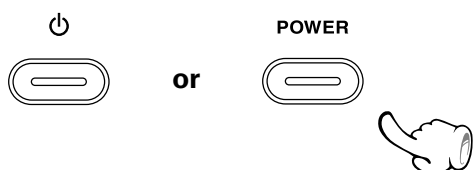
● When the unit enters the Standby mode, the **standby/timer** indicator lights in green.
● If there is a power failure or the power cord is un-plugged after the timer reservation has been activated, the **standby/timer** indicator blinks in green. In this case, the clock setting should be restarted from the beginning.

42 **EN**

Important Items

Maintenance

Cleaning the head section

Cotton swab

Capstan

Head

Pinch roller

Tape guides
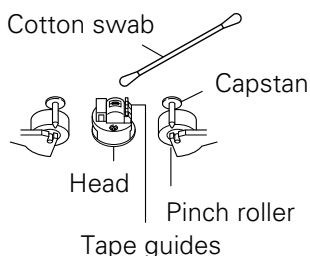
Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads, 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, 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).

POINT

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

Maintenance of the unit

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

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.

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 and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstances:

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

Note related to transportation and movement

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

❶ **Remove the CD from the unit.**
❷ **Press the CD ▶/❙❙ key.**

NO DISC

❸ **Wait for some time and verify that the display appears as above.**
❹ **Wait a few seconds and turn the unit OFF.**

Memory backup function

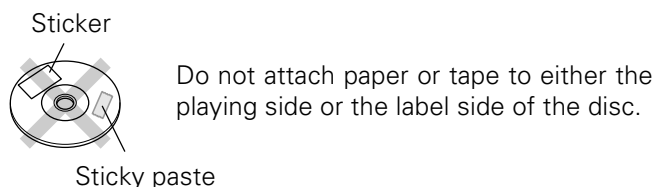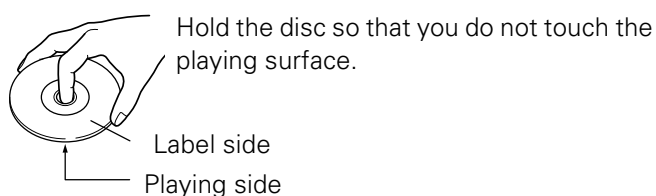**Stored contents which are cleared immediately when power plug is unplugged from power outlet :**

Clock display

Stored contents which will back-up after power plug is unplugged from power outlet:
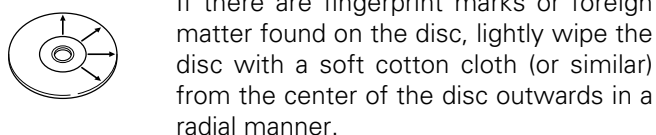
Preset station, Program Timer

Disc handling precautions

Handling

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

Label side

Playing side

Sticker

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

Sticky paste

Cleaning

If there are fingerprint marks or foreign matter found on 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.

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 malfunction.

Discs which can be played with this unit

CD (12 cm, 8 cm), CD-R, CD-RW, 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 ▯disc▯ marking on the label surface.

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.
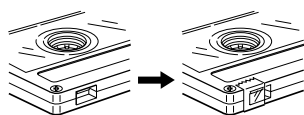
Notes on cassette tape

Safety tab (accidental erasure prevention tab)

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

For A side

For B side
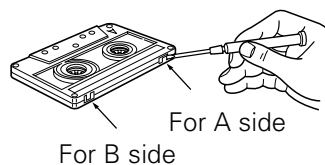
To re-record

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

To store cassette tapes

Do not store tapes in places which are subjected 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.
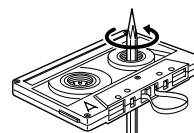
P◊INT

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

Do not use a cassette with more than 90-minute recording time, for the tape used in such a cassette is very thin and tends to cause problem such as entanglement around the pinch roller or could be easily cut 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 commercially available tapes or disc should contact the mechanical copyright protection society limited or the performing rights society limited.

In case of difficulty

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 POWER or ⏻ key depressed, plug the power cord again. |

⏻   **or**   **POWER**
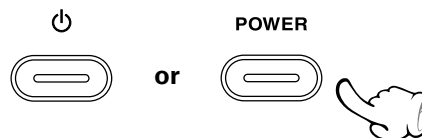
After resetting the microcomputer, the display will show as follow: `RESET`

Amplifier section/Speakers

Symptom	Remedy
Sound is not produced.	● Connect properly referring to "**System connections**". →⬚6 ● Adjust to a required volume. →⬚14 ● Switch MUTE OFF. →⬚15 ● Unplug the headphone plug.
The "standby/timer" indicator blinks in red and no sound is output.	● A speaker cord is short-circuited. Turn power off and re-connect the speaker cord.
The "standby/timer" indicator blinks in green.	● Adjust the present time again. →⬚37 ● Set the timer ON/OFF time properly →⬚40
No sound from the headphones.	● Insert correctly. →⬚15 ● Adjust to a required volume. →⬚14
Sound is not produced from the left or right speakers.	● Connect properly referring to "**System connections**". →⬚6
The clock display blinks without changing the figures.	● Adjust the present time again. →⬚37
Timer operation is not possible.	● Adjust the present time referring to "**Clock adjustment**". →⬚37 ● Set the timer ON time and OFF time. →⬚40

Tuner section

Symptom	Remedy
Radio stations cannot be received.	● Connect antennas. →⬚7 →⬚8 ● Select a band. →⬚20 ● Tune to the frequency of the desired station. →⬚20
Noise interferes.	● 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.	● Preset stations with tunable frequencies. →⬚21 ● Preset stations again. →⬚21

45 EN

CD player section

Symptom	Remedy
A CD is placed in the player but it cannot be played.	● 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.	● Press the **CD ▶/II** key. ● Clean the disc referring to "**Disc handling precautions**". → 44
Sound skips.	● Clean the disc referring to "**Disc handling precautions**". → 44 ● Install the unit in a place not subject to vibrations.

Cassette deck section

Symptom	Remedy
Sound cannot be produced by pressing the play key.	● Clean the head referring to "**Maintenance**". → 43 ● The tape is wound too tight due to irregular winding. ● Play a recorded tape.
No operation occurs even when an operation key is pressed.	● Press operation keys in more than a few seconds after closing the cassette holder. → 18 ● Change the tape transport direction or reverse the tape insertion orientation. → 18
The cassette holder cannot be opened by pressing "⏏ push open".	● Press in stop mode.
Sound is harsh or high frequencies are not re-produced.	● Clean the head referring to "**Maintenance**". → 43 ● Try another tape.
Sound is distorted.	● The recording level is not set properly (when the AUX input is recorded). Adjust the AUX input level. → 36
Noise is noticeable.	● 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.	● Clean the head referring to "**Maintenance**". → 43 ● Wind the tape again by fast forwarding, rewinding or playing from an end to the other. → 18 → 19
Recording cannot be started by pressing the record key.	● Use a cassette with an unbroken recording protect tab or block the hole. → 44 ● Close the holder completely. → 18 ● Set the input selector to the source to be recorded. → 27 ● Change the tape transport direction or reverse the tape insertion orientation. → 18

Remote control unit

Symptom	Remedy
Remote control operation is not possible.	● Replace with new batteries. → 13 ● Operate the unit inside the remote controllable range. → 13

Displayed messages and actions to be taken against them

Displayed Message	Meaning
PGM FULL	● An attempt is made to select a 33rd track during programing of CD.
PGM MODE	● An attempt is made to start random playback in the program mode. Exit from the program mode before random playback. ➞ 30
PROTECT	● The cassette in use is protected by breaking the erasure protection tab. ➞ 44
RDM MODE	● An attempt is made to perform O.T.E. recording while the unit is in the CD random play mode. Exit from the random play mode. ➞ 32

For the U.S.A.

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Specifications

Main unit

[Amplifier section]

(For U.S.A. and Canada)
Rated output power during STEREO operation (FTC)

> 43 watts per channel minimum RMS, both chan-
> nels driven, at 6 Ω from 90 Hz to 15 kHz with no
> more than 10 % total harmonic distortion.

(For U.K. and Europe)
Effective output power during STEREO operation
   (1 kHz, 10% T.H.D., at 6 Ω) .... 50 W + 50 W
Rated output power during STEREO operation
   (1 kHz, 0.7% T.H.D., at 6 Ω) .... 37 W + 37 W

(For other countries)
Rated output power during STEREO operation
   (1 kHz, 10% T.H.D., at 6 Ω) .... 50 W + 50 W
Frequency response
   AUX .... 30 Hz~100 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section
   Tuning frequency range .... 87.5 MHz ~ 108 MHz

MW (AM) tuner section

(For U.S.A. and Canada)
   Tuning frequency range .... 530 kHz ~ 1,700 kHz

(For U.K. and Europe)
   Tuning frequency range .... 531 kHz ~ 1,602 kHz

(For Australia)
   Tuning frequency range .... 531 kHz ~ 1,602 kHz

(For other countries)
   Tuning frequency range
      9 kHz step .... 531 kHz ~ 1,602 kHz
      10 kHz step .... 530 kHz ~ 1,610 kHz

[CD player section]

Laser   .... Semiconductor laser
Over sampling .... 8 fs (352.8 Hz)
Laser wave length .... 760 - 800 nm
Laser power class .... Class 1 (IEC)
D/A Conversion .... 1 Bit

[Cassette deck section]

Track   .... 4-track, 2-channel stereo
Recording system .... AC bias system
                                                (Frequency: 105 kHz)
Heads
   Playback/ recording head 1
   Erasing head 1
Wow and flutter .... 0.2 % (W.R.M.S.)
Fast winding time .... Approx. 100 seconds
                                                          (C-60 tape)

[General]

Power consumption .... 120 W
Dimensions .... W : 180 mm (7-1/16")
                                          H : 255 mm (8-7/16")
                                          D : 335 mm (13-3/16")
Weight (net)... 5.3 kg (11.7 lb)

Speakers

Enclosure .... Bass-reflex type
Speaker configuration
   Woofer .... 120 mm, cone type
   Tweeter .... 25 mm, dome type
Impedance .... 6 Ω
Maximum input level .... 50 W
Dimensions .... W : 150 mm (5-7/8")
                                          H : 255 mm (10-1/16")
                                          D : 213 mm (8-3/8")
Weight (net) .... 2.3 kg (5.5 lb) (1 piece)

KENWOOD follows a policy of continuous ad-
vancements 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 informa-
tion or service on this product.

Model _____   Serial Number _____

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