KENWOOD

COMPACT HI-FI COMPONENT SYSTEM

R-K701

INSTRUCTION MANUAL

KENWOOD CORPORATION

ENGLISH

FRANÇAIS

DEUTSCH

NEDERLANDS

ITALIANO

ESPAÑOL

COMPACT
disc
DIGITAL AUDIO
TEXT

R·D·S

Σ *DSP*
PERFORMANCE AUDIO

B60-5506-10 01 (JA) (E) FE 0408

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 . ... AC 230 V only

Other countries .... AC 110-120 / 220-240 V switchable

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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 RE-MOVE 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 IN-TENDED 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) INSTRUC-TIONS 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.
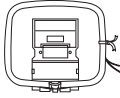
Location: Back panel

Accessories

Unpacking

Unpack the unit carefully and make sure that all the accessories are present.

AM loop antenna (1)

FM indoor antenna (1)

Microphone for Room Equalizer (1) (Cord length: approx. 5 m)

Remote control unit (1)

Batteries (R03/AAA) (2)

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.

ENGLISH

Special features

Room Equalizer feature

This model is equipped with Room Equalizer, which automatically creates your best listening environment according to your room, speakers position, etc. In addition to technical knowledge, generally, a great deal of time and work are spent finding the best listening position such as changing speakers or furniture position while listening to the sound. This function enables you to simply create it in a short time without laborious settings.

Digital Sound Equalizer feature

This model is equipped with Digital Sound Equalizer by Digital Sound Processing, which makes more detailed sound adjustments possible.

Playback capability of CD-R and CD-RW discs

This model 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.

Versatile timer features

● **Timer playback :**
Two timer programs (PROG 1, PROG 2) are available for timer playback (AI timer playback). (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.

RDS (Radio Data System) tuner

This model is equipped with an RDS tuner that provides several convenient tuning functions: RDS Auto Memory, to automatically preset up to 40 RDS stations broadcasting different programs; station name display, to show you the name of the current broadcast station; and PTY search to let you tune stations by program type.

PTY (Program Type) search

Tune the stations by specifying the type of program you want to hear.

Contents

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

Preparation section

Basic section

Application section

Knowledge section

System connections

Connection of the system accessories

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

CAUTION
Connect the components as shown in the diagram. Only plug the AC power cord into an AC wall outlet once connections are completed.

CAUTION
The magnet in the speaker may cause color irregularity to the TV or PC monitor. Place the speakers 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

CAUTION
The power in this equipment will not be completely cut off from the wall outlet when the power switch is turned off.
Install the equipment so that the wall outlet is easily accessible and, in case of emergency, immediately unplug the power cord from the wall outlet.

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".   → 46

Speaker (Right)

⊖   ⊕
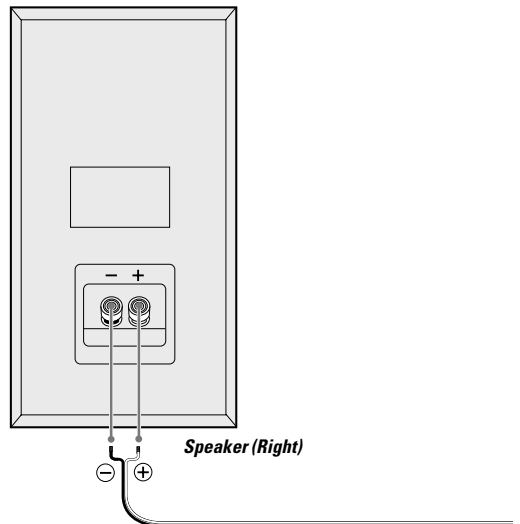
Notes
- Never short-circuit the "**+**" and "**–**" speaker cords. It may cause malfunction.
- If the "**+**" and "**–**" polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc.
- Be sure to insert all connection cords securely. If their connections are 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.

System connections

AM/FM radio stations cannot be received without the proper antenna connections. Connect the antennas properly according to the following instructions.

AM loop antenna
The supplied antenna is for indoor use. Place it as far as possible from the main unit, TV set, speaker cords and POWER cord, and set it to a direction which provides the best reception.
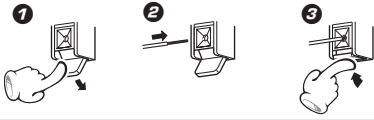
FM indoor antenna
The provided antenna is for temporary indoor use only. For stable signal reception, we recommend to use an outdoor antenna. Remove the indoor antenna if you connect to an outdoor antenna.

❶ Connect the antenna to the antenna terminal.
❷ Locate the position providing good reception condition.
❸ Fix the antenna.

How to connect the antenna

FM indoor antenna

AM loop antenna

Assemble

ANTENNA
AM ⊓ GND FM 75Ω

Microphone for Room Equalizer (not for recording)

PHONO IN   AUX IN   TAPE REC OUT/PLAY IN
ANTENNA
AM ⊓ GND FM 75Ω
ROOM EQ MIC IN

SUBWOOFER PRE OUT

SPEAKER(6–16Ω)

AC POWER cord
To AC wall outlet

Speaker (Left)

Speaker cord

SPEAKERS(6–16Ω)
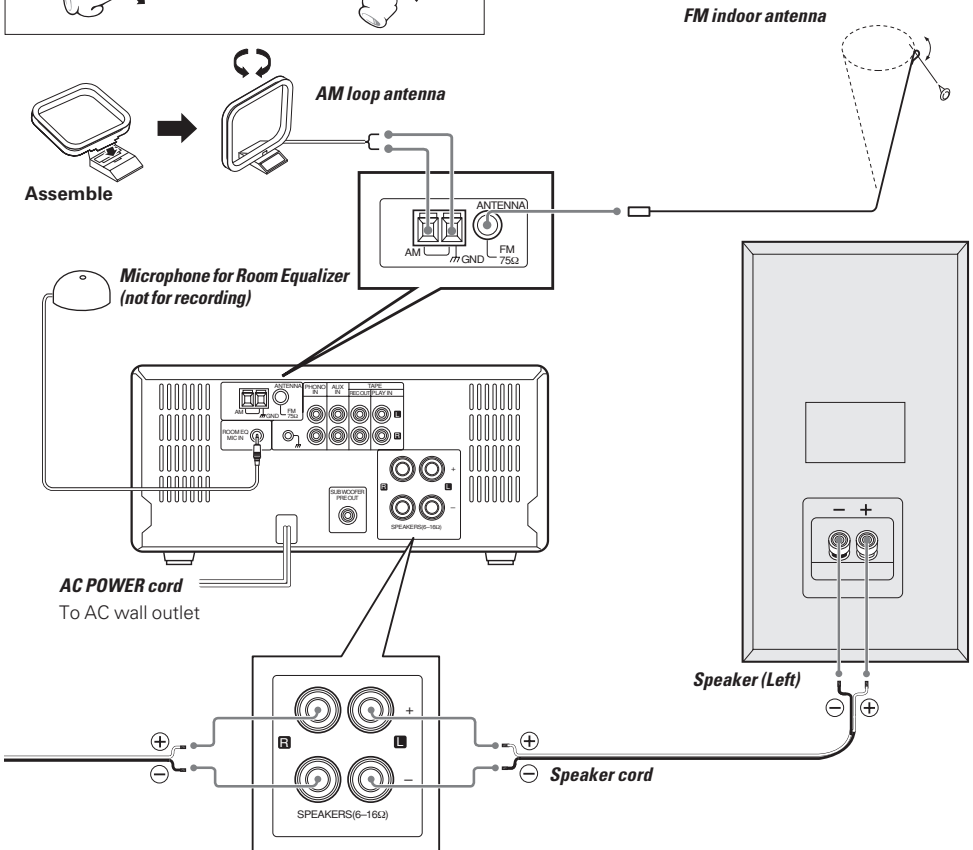
How to connect the speaker cords

7 EN

# Connection of other accessories (Commercially available parts)

CAUTION

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

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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)
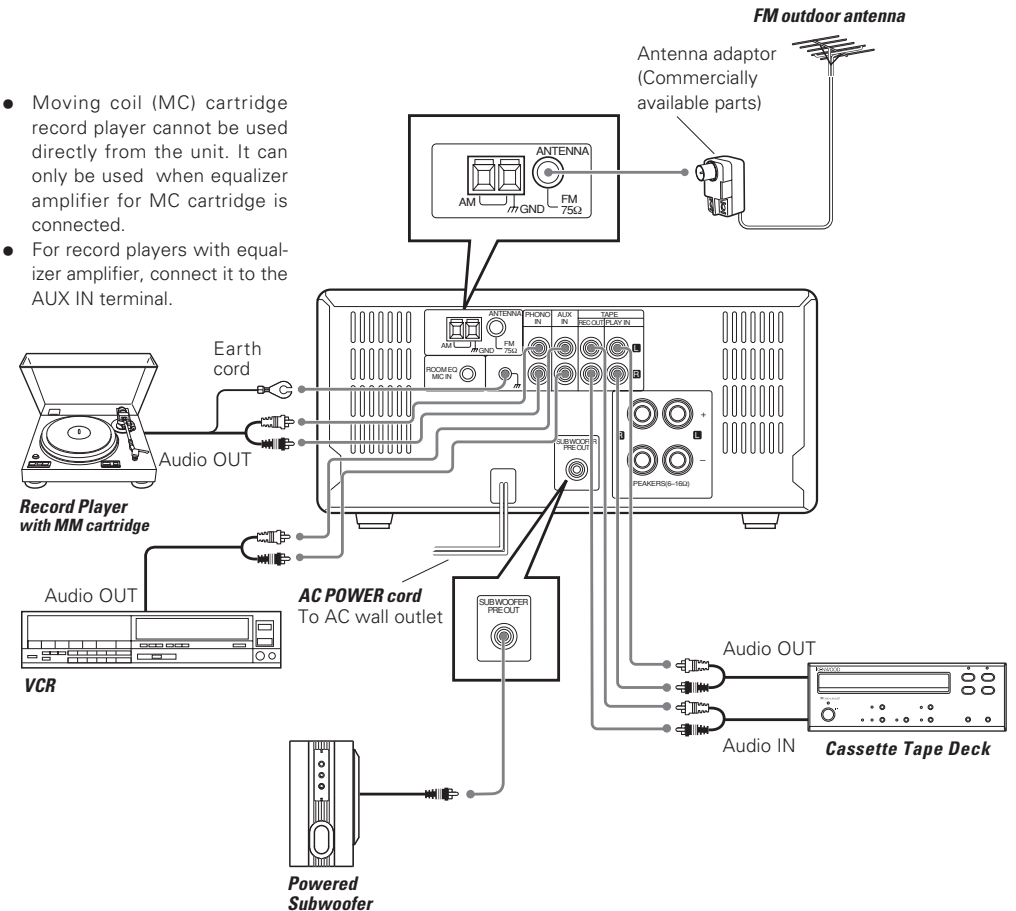
● Moving coil (MC) cartridge record player cannot be used directly from the unit. It can only be used when equalizer amplifier for MC cartridge is connected.
● For record players with equalizer amplifier, connect it to the AUX IN terminal.

Earth cord

Audio OUT

Record Player with MM cartridge

Audio OUT

AC POWER cord
To AC wall outlet

VCR

Audio OUT

Audio IN   *Cassette Tape Deck*

Powered Subwoofer

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.
● The earth terminal with the ⏚ symbol is used for noise reduction of record player. It is not for safety earth.

Controls and indicators

Display

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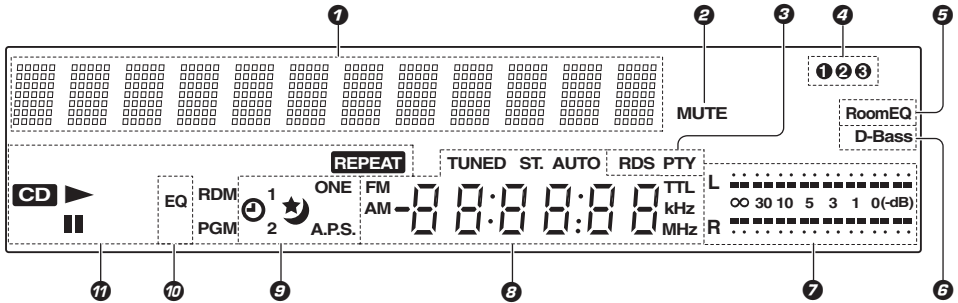
❶ **Character information display**

❷ **MUTE indicator** → 16

❸ **RDS-related indicators** → 29 → 30

❹ **Sound preset memory number indicators** → 21

❺ **RoomEQ indicator** → 17

❻ **D-Bass indicator** → 19

❼ **Level meters** → 43

❽ **Tuner-related indicators**

   CD time display

   Clock display

❾ **Timer-related indicators** → 37
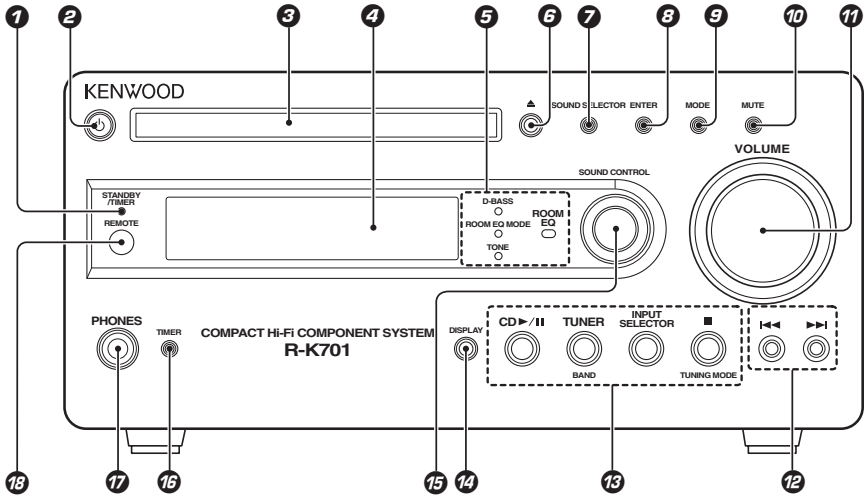
❿ **EQ indicator** → 20

⓫ **CD-related indicators**

Main unit

❶ STANDBY/TIMER indicator

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

Red : Ordinary standby.

Green : Timer standby.

Off : The unit is On.

Refer to *"In case of difficulty"* for blinking of the indicator. → 46

❷ ⏻ (POWER) key → 15

Used for setting the unit to On or Standby.

❸ CD tray

❹ Display panel

❺ Sound indicators

D-BASS indicator → 19

Blinks during D-BASS setting; lights up when the setting is completed.

ROOM EQ MODE indicator → 18

Blinks during ROOM EQ MODE setting; lights up when the setting is completed.

TONE indicator → 20

Blinks during TONE setting; lights up when the setting is completed.

ROOM EQ indicator → 17

Blinks during ROOM EQ setting; lights up when the setting is completed.

❻ ⏏ (CD open/close) key → 22

Used for opening or closing the CD tray.

❼ SOUND SELECTOR key

Each press of the key switches the display items.

"D-BASS" → 19

"ROOM EQ MODE" → 18

"BASS" → 19

"TREBLE" → 20

SOUND setting mode OFF

❽ ENTER key

When setting up in a mode : Used for confirming the selection.

When receiving a broadcast station : Used for confirming the station to preset in memory.

❾ MODE key

Used for switching the function of the |◀◀ / ▶▶| keys to function menu mode. Press again to reset the function of the |◀◀ / ▶▶| keys to normal mode.

Items of function menu mode :

INPUT LEVEL	→32
BALANCE	→16
AUTO MEMORY	→26
DIMMER SET	→42
LEVEL METER	→43
A.P.S. SET	→43
TIME ADJUST	→14
TIMER SET	→38
SOUND PRESET	→21
ROOM EQ	→17

• Some of the items may not be displayed depending on selected input source.

❿ MUTE key   →16

Used for muting the sound temporarily.

⓫ VOLUME knob   →16

Used for volume adjustment.

⓬ |◀◀ / ▶▶| (multi control) keys

In the normal mode, these are used for
– skip CD tracks   →23
– select a preset radio station   →26

In the function menu mode (selected by pressing the **MODE** key), press these keys to select the desired menu item. To set or enter setting of the function menu item, press the **ENTER** key.

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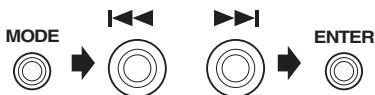
• The function of these keys returns to the normal mode when they have not been operated for 20 seconds.

⓭ Basic operation keys

CD ▶/II key   →22

Used for selecting the CD input and starting playback. During CD playback, press to pause.

TUNER/BAND key   →25

Used for selecting the TUNER input.
This key is also used to select the received broadcast band.

INPUT SELECTOR key   →15 →32

Used for selecting an input source (PHONO, TAPE, AUX).

■ (STOP)/TUNING MODE key

CD :   →23

Used for stopping a disc operation.

TUNER :   →27

Used for switching between the AUTO (auto tuning, stereo reception) and MONO (manual tuning, monaural reception) modes.

Standby mode: →14

Used for displaying the clock.

⓮ DISPLAY key (for CD/TUNER inputs only) →24

Used for changing the CD-TEXT displays.
Used for displaying the day of week and the time.

⓯ SOUND CONTROL knob   →19

Used for adjusting the SOUND level.

⓰ TIMER key   →41

Used for activating or deactivate timer function.

⓱ PHONES jack   →16

Connect headphones with a stereo mini-plug (optionally available) to it.
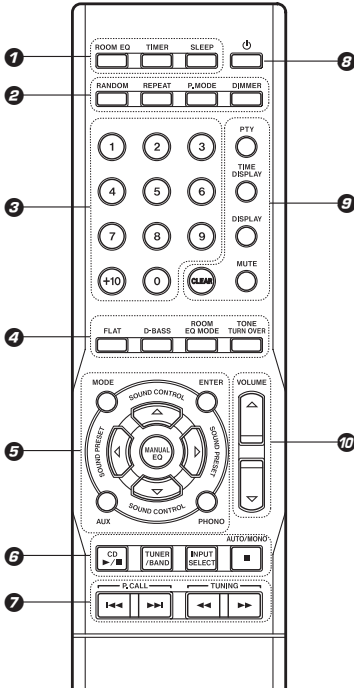
⓲ REMOTE sensor   →13

This sensor receives signals from the remote control unit.

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Standby mode

While the standby indicator is lit, a small amount of power is supplied to the unit to back up the memory. This is called Standby mode. Under the condition, the unit 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.

② **RANDOM key (CD)** → [36]

Used for setting playback of tracks in a random order.

REPEAT key (CD) → [35]

Used for setting repeated playback.

P.MODE key (CD) → [33]

Used for switching to track mode, or program mode.

DIMMER key → [42]

Used for switching to the DIMMER mode.

③ **Numeric keys** → [23] → [28] → [33] → [34]

Press for selecting a CD track number or recall a preset station of the tuner.

④ **Sound setting mode keys**

Press for entering the sound setting mode with the following keys.

FLAT key → [21]

D-BASS key → [19]

ROOM EQ MODE key → [18]

TONE TURN OVER key → [19]

⑤ **SOUND PRESET (◁/▷) keys** → [19] → [20] → [21]

Used for recalling a preset sound or select a frequency band of the equalizer.

SOUND CONTROL (△/▽) keys → [19] → [20]

Used for adjusting the sound control level.

MANUAL EQ key → [20]

Used for entering the manual EQ mode.

MODE key

Used for entering the function setting mode.

AUX key → [32]

Used for pressing to switch to an external input source connected to the AUX (analog auxiliary input) jack.

ENTER key

When setting up in a mode : Used for confirming the selection.

When receiving a broadcast station : Used for confirming the station to preset in memory.

PHONO key → [32]

Used for switching to an external input source connected to the PHONO jack.

⑥ **Basic operation keys**

CD ▶/Ⅱ key → [22]

TUNER/ BAND key → [25]

INPUT SELECT key → [32]

Used for selecting an input source (PHONO, TAPE, AUX).

AUTO/MONO/■ (STOP) key → [14] → [23] → [27]

With same functions, in the case that names of the keys and knobs between "on the main unit" and "on the remote control unit" are different, in this manual, names on the remote control unit are indicated in parentheses [ ] ;

Name on the main unit [Name on the remote control unit]
Example: The SOUND CONTROL knob [the SOUND CONTROL △ / ▽ key]

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❼ **ROOM EQ key** → [17]

Used for setting the Room Equalizer.

TIMER key → [41]

Used for activating or deactivating timer function.

SLEEP key → [37]

Used for setting the sleep timer.

Controls and indicators

❼ P.CALL (|◄◄ / ►►|) keys

CD : ‒ 23

Used for skipping CD tracks.

TUNER : ‒ 26

Used for receiving a radio station.

TUNING (◄◄ / ►►) keys

CD : ‒ 23

Used for fast-forward or fast-reverse the played music.

TUNER : ‒ 27

Used for receiving a radio station.

❽ ⏻ (POWER) key ‒ 15

Used for setting the unit to On or Standby.

❾ PTY key ‒ 30

Used for entering PTY mode or searching a program type.

TIME DISPLAY key ‒ 24

Used for changing time displays.

DISPLAY key (for CD/TUNER inputs only) ‒ 24

Used for changing the CD-TEXT displays.
Used for displaying the day of week and the time.

MUTE key ‒ 16

Used for muting the sound temporarily.

CLEAR key ‒ 34

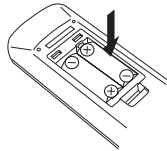Used for clearing a programed track(s).

❿ VOLUME (△/▽) keys ‒ 16

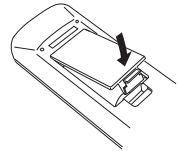Used for adjusting the volume.

Loading batteries
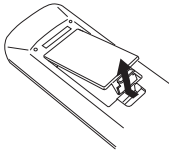
❶ Remove the cover.   **❷ Insert batteries.**   **❸ Close the cover.**

- Insert two R03 ("AAA"-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
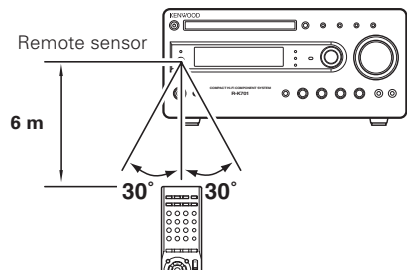
- The provided batteries are intended for use in operation checking, and their service life may be short.
- When the remote controllable distance becomes short, replace both of the batteries with new ones.
- If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.
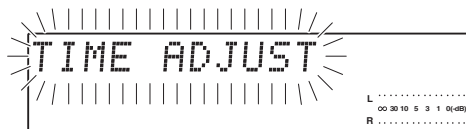
13 EN

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 adjustment in advance.

Turn POWER ON.

1 Select "TIME ADJUST".

❶ Press the MODE key and select "TIME ADJUST" by pressing the |◄◄ / ►►| key.
❷ Press the ENTER key.

MODE |◄◄   ►►| ENTER

```
TIME ADJUST
```
L ·············· ∞ 30 10 5 3 1 0(-dB)
R ··············

● The time display starts to blink.

2 Adjust the day of week.

❶ Adjust the day of week by pressing the |◄◄ / ►►| key.
❷ Press the ENTER key.

|◄◄   ►►| ENTER

Example: Adjustment to Monday 8:07

```
MONDAY
0:00
```
L ·············· ∞ 30 10 5 3 1 0(-dB)
R ··············

● After the day is input, the hour display starts to blink.

3 Adjust the hour.

❶ Adjust the hour by pressing the |◄◄/►►| key.
❷ Press the ENTER key.

|◄◄   ►►| ENTER

Example: Adjustment to Monday 8:07

```
MONDAY
8:00
```
L ·············· ∞ 30 10 5 3 1 0(-dB)
R ··············

● After the hour is input, the minute display starts to blink.

4 Adjust the minute.

❶ Adjust the minute by pressing the |◄◄ / ►►| key.
❷ Press the ENTER key.

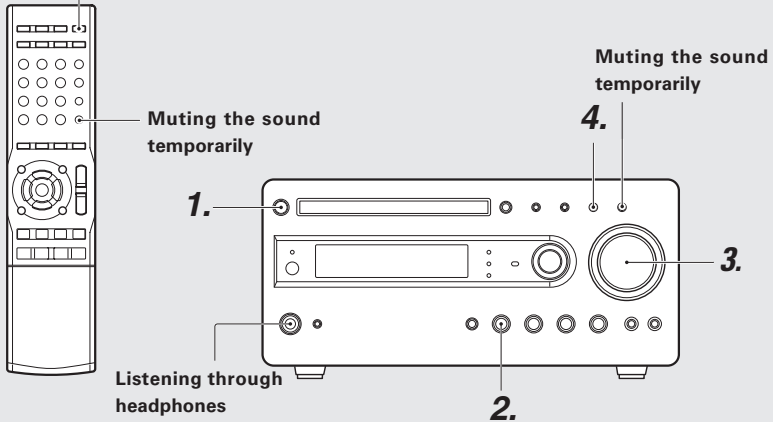|◄◄   ►►| ENTER

Example: Adjustment to Monday 8:07

```
MONDAY
8:07
```
L ·············· ∞ 30 10 5 3 1 0(-dB)
R ··············

● If you made a mistake, restart from the beginning.
● When the time of day has been set by pressing the ENTER key, the display shows **"COMPLETE"**.
● After a power failure or the AC power cord has been unplugged, the time set will be cleared. You have to set the time again when the unit is switched on.
● When the ■ **(STOP)** key is pressed while the power is in the standby mode, the time of day will be displayed for 8 seconds.

Basic use method

The unit is switched ON or STANDBY

Muting the sound temporarily

4.

Muting the sound temporarily

1.

3.

2.

Listening through headphones

---

1. *Turning the ⏻ (POWER) ON (OFF).*

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

● Pressing the **CD ▶/Ⅱ**, **TUNER/BAND**, or **INPUT SELECTOR [INPUT SELECT]** key also turns power on and starts playback (reception) of the corresponding input.

● When the CD input is selected while the corresponding disc have been loaded, it automatically starts to play.

---

2. *Selecting the desired input sources.*

EX: CD

CD ▶/Ⅱ

EX: An external input source

INPUT SELECTOR

or

INPUT SELECT

Select a desired input source.

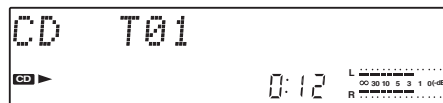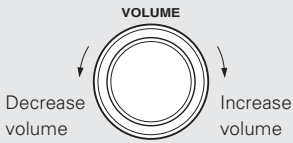|	
CD	– 22
TUNER (Broadcasts)	– 25
PHONO/TAPE/AUX (External input sources) [Adjusting the external input level]	– 32

● Pressing the **CD ▶/Ⅱ**, **TUNER/BAND**, or **INPUT SELECTOR [INPUT SELECT]** key selects the corresponding input.
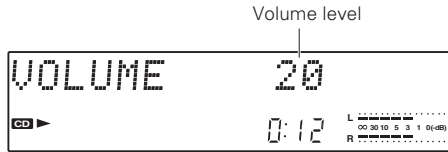
When CD is selected

```
CD   T01
CD ▶              0:12   L ········
                         R ········  ∞ 30 10  5  3  1  0(-dB)
```

● Each press of the **INPUT SELECTOR [INPUT SELECT]** key changes the external input sources;

"PHONO"
"TAPE"
"AUX"

3. Adjusting volume.
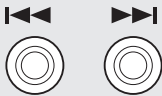
Volume level

VOLUME

Decrease volume

Increase volume

```
VOLUME        20
CD ▶          0:12    L ▬▬▬▬ ...
                      R ▬▬▬▬ ...
                      ∞ 30 10 5 3 1 0(dB)
```

● The display shows a reference value.
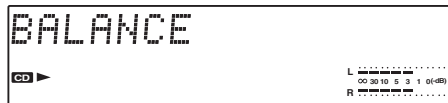

MODE

◄◄   ►►
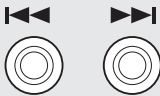
ENTER

◄◄   ►►

ENTER

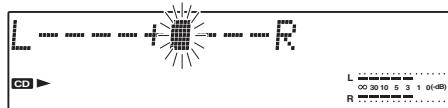## 4. Adjusting balance (volume level on right and left).

❶ **Press the MODE key and select "BALANCE" by pressing the ◄◄ / ►► key, and press the ENTER key.**

```
BALANCE
CD ▶          L ▬▬▬▬ ...
              R ▬▬▬▬ ...
              ∞ 30 10 5 3 1 0(dB)
```

❷ **Adjust the balance by pressing the ◄◄ / ►► key, and press the ENTER key.**

```
L — — — — + ▓ — — — R
CD ▶          L ▬▬▬▬ ...
              R ▬▬▬▬ ...
              ∞ 30 10 5 3 1 0(dB)
```

Listening through headphones

Insert the headphones plug into the PHONES jack.

PHONES

● Headphones with a stereo mini plug can be connected.
● The sound from all speakers is cut off.

Muting the sound temporarily (MUTE)

Press the MUTE key.

MUTE

● Press the **MUTE** key again to resume the original volume.
● It is also canceled when the volume is changed.

Using Room Equalizer function

⚠ **A very loud test sound is produced during the measurement. Please take into consideration that it may disturb your neighborhood, especially, when you measure it at the night time.**

ROOM EQ function automatically performs the following adjustments with the provided microphone by measuring sound characteristics for the best listening environment according to your room conditions and speakers layout.

1. **Sound delay from speakers**
2. **Volume level differences between left and right speakers**
3. **Speaker frequency characteristics and room sound characteristics**

Measuring room sound characteristics (ROOM EQ)

❶ **Connect the microphone to the ROOM EQ MIC IN jack on the back of the unit.** → 📖 7

❷ **Place the microphone to the listening position (at a height of your ears).**

❸ **Select "ROOM EQ" from the menu by pressing the ◄◄ / ►► key, and press the ENTER key. Or press the ROOM EQ key on the remote control unit.**

MODE   ◄◄   ►►   ENTER

or

ROOM
EQ MODE
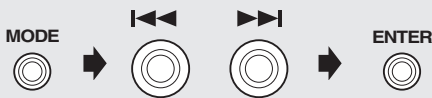
❹ **Select "R.EQ START" by pressing the ◄◄ / ►► key and press the ENTER key.**

◄◄   ►►   ENTER

Each press of the ◄◄ / ►► key changes the items;

"R.EQ START": Measurement starts.
"R.EQ OFF": Characteristics setting is temporarily canceled.
**"R.EQ CALL":** Characteristics setting is called up.

● It takes about 1 minute until the measurement is completed.
● If the microphone is not connected or headphones are connected, the measurement is impossible. (**"CAN'T SETUP"** is displayed.)
● Make sure that the microphone is removed from the main unit right after the ROOM EQ measurement.
● Effective result may not be obtained depending on the measurement surroundings.
● Displays during and after the measurement
  The **ROOM EQ** indicator (LED) blinks during the measurement. The **ROOM EQ** indicator (LED) and the **RoomEQ** indicator on the display light up.

```
R.EQ SETUP                    RoomEQ

          AUTO       L ················
                     ∞ 30 10 5 3 1 0(-dB)
                     R ················
```

● Image of the measurement
  Place the microphone at a height of your ears.
  Do not place any obstacles between the microphone and speakers during the measurement.
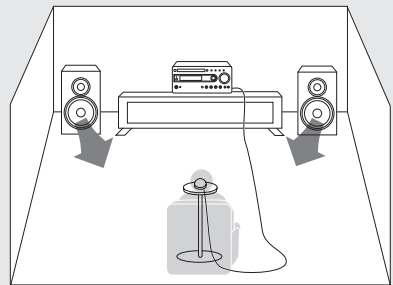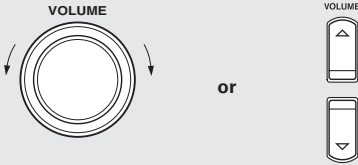
● Image of effect by Room Equalizer function

Room EQ

ENGLISH
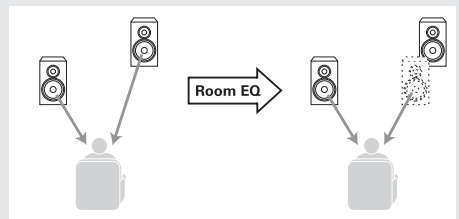
To cancel the measurement

Turn the VOLUME knob on the main unit or press the VOLUME △ / ▽ key on the remote control unit.

VOLUME

VOLUME

or

● Another method of cancellation: Press the **ROOM EQ** key on the remote control unit. When **"R.EQ CANCEL?"** is displayed, press the **ENTER** key.

Changing measured Room Equalizer Characteristics according to situation (ROOM EQ MODE)

❶ **Select "ROOM EQ MODE" by pressing the SOUND SELECTOR key. Or, press the ROOM EQ MODE key on the remote control unit.**

SOUND SELECTOR

ROOM
EQ MODE

or
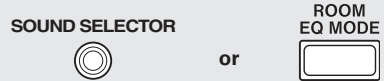
❷ **Select a mode by using the SOUND CONTROL knob on the main unit or SOUND CONTROL △ / ▽ key on the remote control unit.**

The following mode items can be selected:
"NORMAL": **This mode reproduces the sound optimized based on the measured results by ROOM EQ. Usually, use this mode.**
"WIDE": **Mode that you can enjoy music at a relatively wide area centering around the measured position. It is convenient, for example, when you wish to listen to music walking around room at a home party.**
**"NIGHT":** **Mode that is convenient when you wish to enjoy music with low volume at midnight. It is adjusted based on melodious sounds such as vocal and will relatively be clear sound with low volume.**

● The **ROOM EQ MODE** indicator blinks, and when it is selected, the indicator lights up.
● If no operation continues for 20 seconds, it returns to the original display.

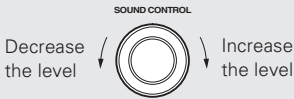# *Using Digital Sound Equalizer function*

D-BASS Setting

❶ **Select "D-BASS" by pressing SOUND SE-LECTOR key on the main unit or the D-BASS key on the remote control unit.**

SOUND SELECTOR

D-BASS

or
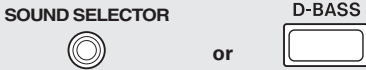
● The **D-BASS** indicator blinks.

❷ **Adjust the level with the SOUND CONTROL knob or the SOUND CONTROL △ / ▽ key.**

Turn the SOUND CONTROL knob.

SOUND CONTROL

Decrease
the level

Increase
the level

● When the SOUND Setting mode is in OFF, by simply turning the **SOUND CONTROL** knob, it can enter the D-BASS setting mode.
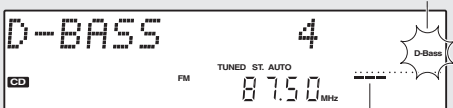
or

Press the SOUND CONTROL △ / ▽ key.

SOUND CONTROL

△

SOUND CONTROL

▽

● The level can be adjusted at the range of 0 - 10.
● If no operation continues for 20 seconds, the display returns to the original display.
● The **D-BASS** indicator lights up after the setting (when the level is 1 or more).

The **D-Bass** indicator lights up.

D-BASS   4

CD   FM   TUNED ST. AUTO   D-Bass
87.50MHz

D-Bass level is displayed.

TONE / TURN OVER setting

In this unit, TREBLE and BASS sounds can be adjusted to your preferences. (TONE)
In addition, frequency characteristics of the TREBLE and BASS sounds can be adjusted with the three types of Low, Mid and High. (TURN OVER)

❶ **Select "BASS" by pressing the SOUND SELECTOR key. Or press the TONE TURN OVER key on the remote control unit.**

SOUND SELECTOR
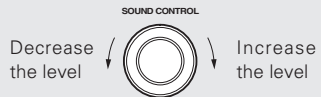
TONE TURN OVER

or
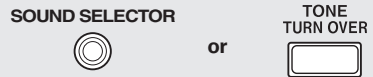
❷ **Select a frequency type (Low: 100Hz, Mid: 150Hz, High: 200Hz) by pressing the SOUND PRESET ◁ / ▷ key on the remote control unit.**

SOUND PRESET

◁

SOUND PRESET

▷

❸ **Adjust the level of BASS with the SOUND CONTROL knob [SOUND CONTROL △ / ▽ key].**

Turn the SOUND CONTROL knob.

SOUND CONTROL

Decrease
the level

Increase
the level

or

Press the SOUND CONTROL △ / ▽ key.

SOUND CONTROL

△

SOUND CONTROL

▽

Continued to next page

ENGLISH

❹ **Repeat the steps ❷ and ❸ to adjust the levels for your favorite BASS sound.**

❺ **Select "TREBLE" by pressing the SOUND SELECTOR key. Or press the TONE TURN OVER key on the remote control unit.**

❻ **Select a frequency type (Low: 5kHz, Mid: 7kHz, High: 10kHz) by pressing the SOUND PRESET ◁ / ▷ key on the remote control unit.**

❼ **Adjust the level of TREBLE with the SOUND CONTROL knob [SOUND CONTROL △ / ▽ key].**

❽ **Repeat the steps ❻ and ❼ to adjust the levels for your favorite TREBLE sound.**

❾ **Press the SOUND SELECTOR [TONE TURN OVER] key.**

● The level can be adjusted by one step (1dB) at the range of -6(dB) to +6(dB).

● If no operation continues for 20 seconds, it returns to the original display.

● The **TONE** indicator lights up after the setting when the level is other than "0".

● Image of variable frequencies (**TURN OVER**)
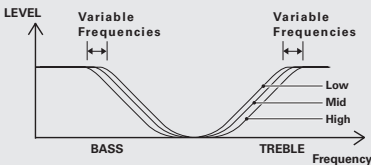
● Image of the level adjustment
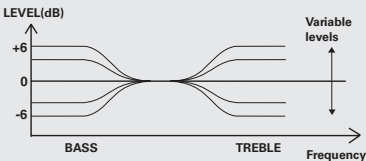
Making your favorite sounds (MANUAL EQ)

This unit is equipped with 7-band equalizer. It enables you to make your favorite frequency response curve with frequencies from super bass to super high range. → 21

❶ **Press the MANUAL EQ key on the remote control unit.**

● Equalizer curve, level and frequency are displayed and the **EQ** indicator blinks.

❷ **Select an equalizer band(frequency) by pressing the SOUND PRESET ◁ / ▷ key on the remote control unit.**


● The display of selected band blinks.
● The frequency bands from 1 to 7 can be selected.

❸ **Adjust the equalizer level by pressing the SOUND CONTROL △ / ▽ key on the remote control unit.**

● The level can be adjusted by one step (1dB) at the range of -8(dB) to +8(dB).
● The manual EQ setting mode will be cancelled when the **MANUAL EQ** key is pressed, or no operation is continued for 20 seconds.
● Image of level adjustment
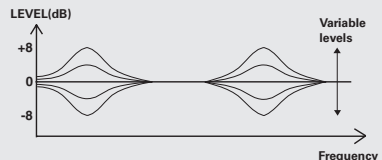
Memorizing your favorite sound

➊ Press the MODE key and select "SOUND PRESET" from the menu, and press the EN-TER key.

MODE ➡ **|◄◄** **►►|** ➡ **ENTER**
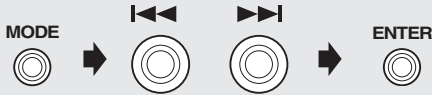
- The indicator **"➊"**, **"➋"** and **"➌"** on the display blinks.
- **"PRESET"** and **"1"**, **"2"**, and **"3"** is displayed on the character information display.
- The sound of three patterns from 1 to 3 can be preset regardless of sound type.
- Information for Room EQ setting is memorized.

➋ Select one of preset numbers from "➊" to "➌" and press the ENTER key.

|◄◄ **►►|** ➡ **ENTER**
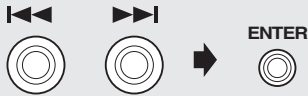
- The indicator of selected preset number lights up on the display.

Preset Call of sound pattern

Press the SOUND PRESET ◁ / ▷ key on the remote control unit.

SOUND PRESET ◁   SOUND PRESET ▷

- **"SOUND PRESET"** and **"➊"** are displayed.
- Factory default setting is "flat".
- The display turns to the original display in 3 seconds.
- The level can be set to "0" by pressing the **FLAT** key on the remote control unit, or the **SOUND SELECTOR** key on the main unit for 2 seconds.

----- ----- ----- ----- ----- -----   **FLAT**
                                                    D-Bass
CD   ....

Switched to the D-Bass display.

Sound equalization

Super bass range (band 1: 63Hz)

When this control is moved up, the sound from bass instruments such as a bass guitar becomes deep an stable. When the super bass sound is boomy, move this control down.

Bass range (band 2: 160Hz)

Usually, the listening room resonance frequency is in this range. To eliminate bass resonance, move this control down.

Mid bass range (band 3: 400Hz)

This range is the basis of music, whether the sound is rich or not, depends on this range. When the play-back sound is not so good, moving this control up slightly makes the sound sonorous.

Mid range (band 4: 1kHz)

When this control is moved up or down, the baritone or soprano voice is emphasized/de-emphasized. This range is related to the "presence" of music.

Mid-high range (band 5: 2.5kHz)

This range is related to stimulus and metallic sound. When this range is well compensated, vivid sound can be obtained.

High range (band 6: 6.3kHz)

This frequency range is related to hardness of the sound. When this control is moved up, strings or brass instruments, such as flutes or piccolos, are emphasized. When the control is moved down, the sound will be more soothing.
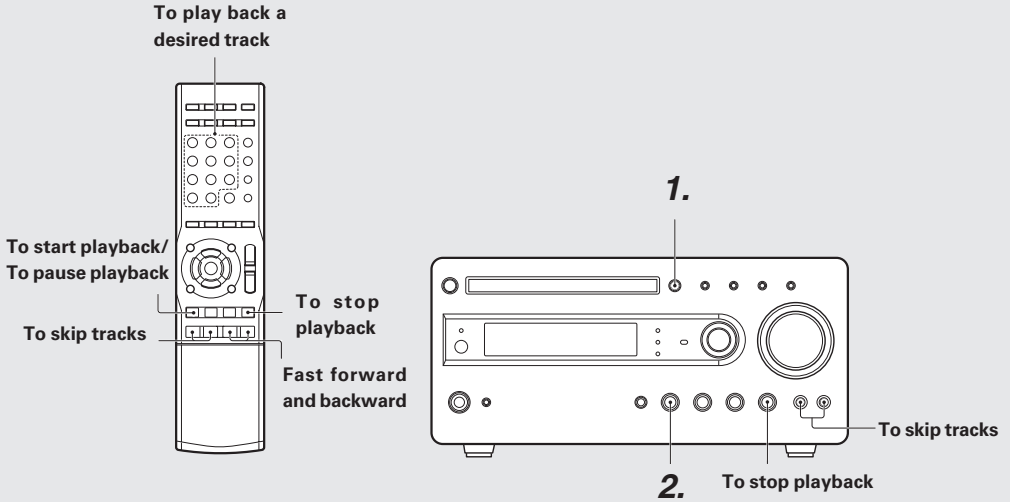
Super high range (band 7: 16kHz)

This frequency range is related to the width and de-tails of the music. When this control is moved up, super high frequency instruments, such as triangles or cymbals, are emphasized, resulting in wide sound and echoes.

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 ▶/❚❚ key, and playback will start.
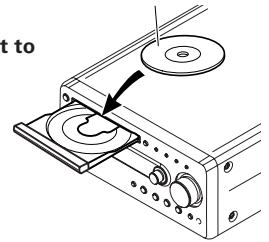
To play back a desired track

1.

To start playback/ To pause playback

To skip tracks

To stop playback

Fast forward and backward

To skip tracks

2. **To stop playback**

1. Load a disc

❶ **Press the ▲ key on the main unit to open the CD tray.**

❷ **Place a disc.**

❸ **Press the ▲ key on the main unit to close the CD tray.**

● Do not touch the played side of disc.

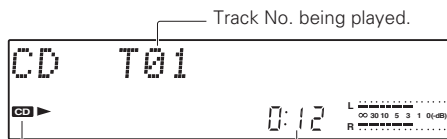● Be sure to place a disc on the tray horizontally. Placing it with an inclination will result in malfunction.

The label side facing up.

▲

2. Start playback

● After a few seconds, playback starts from track No.1.

● A title is displayed for Discs with CD-TEXT.

Track No. being played.

CD ▶/❚❚

```
CD   T01
```

CD ▶   0:12   L ∞ 30 10 5 3 1 0(-dB)
                      R

This indicator lights up when CD is loaded.

Elapsed time of track being played.

Playback of CD

To start playback/ To pause playback

Press the CD ▶/❚❚ key.

CD ▶/❚❚

- Each press of the key pauses and plays the CD alternately.

To stop playback

Press the ■ (STOP) key.

■

TUNING MODE

To play back a desired track

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, +10, 3
To select track No. 30 : +10, +10, +10, 0

Fast forward and backward

Remote control unit only

TUNING
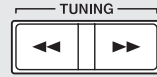
Backward search ◄◄ | ►► Forward search

- Press and hold one of the keys during playback. Normal playback resumes at the point where the key is released.

To skip tracks

Press the ❙◄◄ / ►►❙ key.

To skip backward ❙◄◄   ►►❙ To skip forward

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

To eject disc

Main unit only

▲

- The CD tray will open. (To close the CD tray, press the key again.)

ENGLISH

23 EN

ENGLISH

Time display on CD player

Each press of the TIME DISPLAY key on the remote control unit changes the display items.
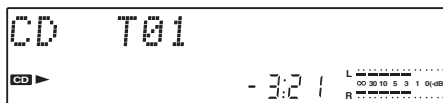
TIME
DISPLAY
◯

- Only time information ① and ② can be displayed during single-track repeated playback or random playback.
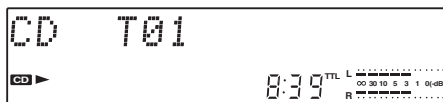- When the displayed time is 1000 minutes or more, the display shows "– – – : – –".
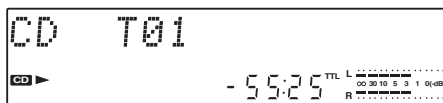
① **Elapsed time of track being played**

```
CD    T01
CD ►            0:00   L ∞ 30 10 5 3 1 0(dB)
                       R
```
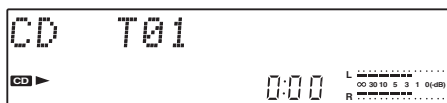
② **Remaining time of track being played ("–" lights up)**

```
CD    T01
CD ►            - 3:21  L ∞ 30 10 5 3 1 0(dB)
                        R
```

③ **Elapsed time of entire disc ("TTL" lights up)**

```
CD    T01
CD ►           8:39 TTL L ∞ 30 10 5 3 1 0(dB)
                        R
```

④ **Remaining time on entire disc ("TTL" & "–" lights up)**

```
CD    T01
CD ►          - 55:25 TTL L ∞ 30 10 5 3 1 0(dB)
                          R
```
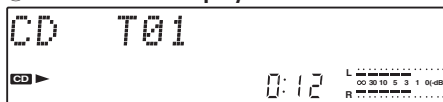
Title Displays for Discs with CD-TEXT

Disc and music titles are automatically displayed when a Disc with CD-TEXT is played. Each press of the DISPLAY key changes displays on the main unit.

DISPLAY
◯

- Some discs with CD-TEXT may not display titles. When discs with letters more than 1000 is played, the display shows **"CD TEXT FULL"**.

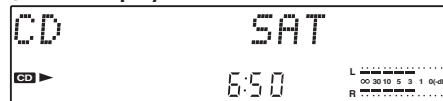① **Track number display**

```
CD    T01
CD ►            0:12   L ∞ 30 10 5 3 1 0(dB)
                       R
```

② **Title display**

```
CD Single Co
CD ►            0:12   L ∞ 30 10 5 3 1 0(dB)
                       R
```

③ **Clock display**

```
CD         SAT
CD ►            6:50   L ∞ 30 10 5 3 1 0(dB)
                       R
```

- Refer to **"Discs which can be played with this unit"** for playable discs.   → [45]
- CD-R/RW discs that are not finalized cannot be played with this unit.
- Data signals other than music, such as CD-R/RW data signal, cannot be played back with this unit.
- This unit may also be incapable of playing certain CD-R/RW discs depending on their properties, recording conditions, etc.

Receiving broadcast station

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

1.
3.
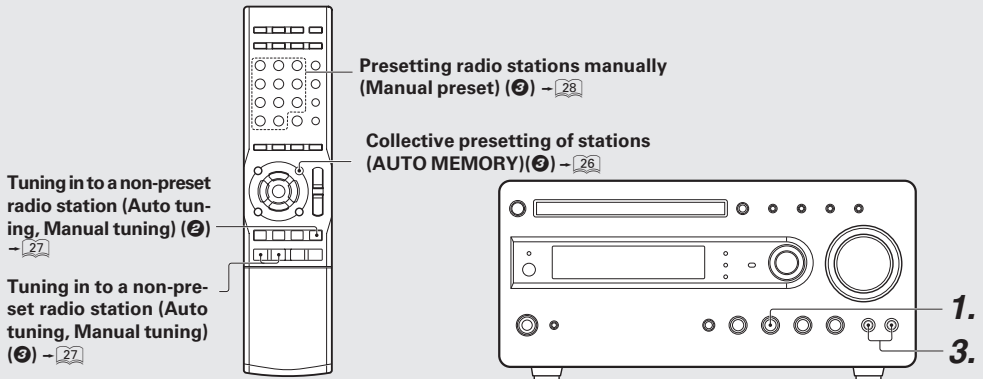
TUNER

BAND

1. *Select the tuner input.*

Each press of the TUNER /BAND key switches the bands as follows.

FM⬌AM

2. *Preset a radio station in memory.*

Collective presetting of stations (AUTO MEMORY) → 26

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

● Once the stations are stored with AUTO MEMORY (Auto memory function) 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.

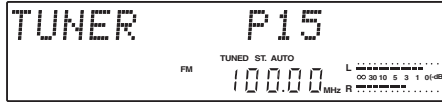**Presetting radio stations manually (Manual preset)** → 28
A station can also be tuned in even when it is not preset. For details, read "Tuning in to a non-preset radio station (Auto tuning, Manual tuning)". → 27

ENGLISH
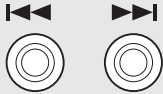
3. Tuning (Preset Call)

● If radio stations have already been stored with AUTO MEMORY (Auto memory function) or manual presetting, select a station using the |◄◄ / ►►| key. Each press of the key switches the preset stations in sequence.

```
TUNER        P15
      FM   TUNED  ST. AUTO        L ................
            100.00 MHz  R ................
                                   ∞ 30 10 5  3  1  0(dB)
```

The indicator **TUNED** lights up when a station is received.

The indicator **ST.** lights up during stereo reception.

When the ►►| key is pressed : P1→P2→P3 ... P38→P39→P40→P1...

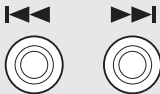**When the |◄◄ key is pressed : P40→P39→P38 ..... P3 →P2→P1→P40.....**

● When a key is held down, preset stations will be skipped at intervals of about 0.5 seconds.

● To select a preset station from the remote, use the **P.CALL |◄◄ / ►►|** key or the Numeric keys on the remote control unit.

Collective presetting of stations (AUTO MEMORY)

❶ **Press the MODE key.**

MODE

❷ **Select "AUTO MEMORY" by pressing the |◄◄ / ►►| key.**

|◄◄   ►►|

❸ **Press the ENTER key.**

ENTER

Up to 40 stations can be memorized.

```
AUTO MEMORY
                                  L ................
                                  R ................
                                   ∞ 30 10 5  3  1  0(dB)
```

● For use of the RDS function, stations must be memorized by AUTO MEMORY.

● RDS stations are given priority during auto presetting. If there is memory left after presetting, this unit continues presetting regular FM and AM stations.

● A broadcast station that cannot be preset with AUTO MEMORY should be set with Manual preset.

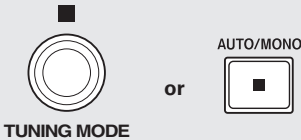### Tuning in to a non-preset radio station (Auto tuning, Manual tuning)

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

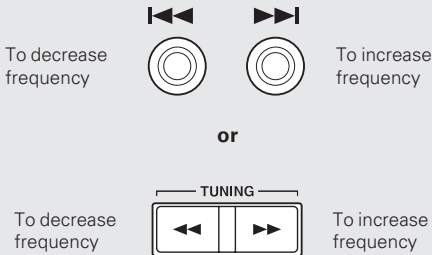   **Auto tuning:**   **When the receiving condition is good.**

    Manual tuning: **When the receiving condition is poor. (Weak radio waves)**

➊ Select the tuner input.

➋ Press the TUNING MODE [AUTO/MONO] key to select a tuning type of Auto or Manual.

AUTO/MONO

or

TUNING MODE

➌ Tune in to a station by pressing the I◄◄ / ►►I [◄◄ / ►►] key.

I◄◄   ►►I

To decrease frequency   To increase frequency

or

TUNING

To decrease frequency   ◄◄   ►►   To increase frequency

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

Each press of the TUNING MODE key changes the tuning types.

      Auto tuning : "AUTO TUNE" is displayed.

             The **AUTO** indicator lights up.

       Stereo reception

      Manual tuning : "MANUAL TUNE" is displayed.

             The **AUTO** indicator goes off.

       Monaural reception

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

Auto tuning :

    The next station can be received automatically every time the I◄◄ / ►►I key is pressed.

Manual tuning :

    Press the I◄◄ / ►►I key repeatedly until the desired station is received. The desired station can also be received by holding the I◄◄ / ►►I key down until its frequency is displayed.

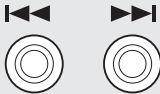## Presetting radio stations manually *(Manual preset)*

❶ Perform the procedure in "Tuning in to a non-preset radio station (Auto tuning, Manual tuning)" to receive the station to be preset. → 27
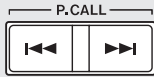
❷ Press the ENTER key during reception.

ENTER

(Proceed to step ❸ while "- -" is blinking.)

❸ Select one of the preset numbers from 1 to 40 with the I◀◀ / ▶▶I key [Numeric keys].

I◀◀   ▶▶I

or

P.CALL
I◀◀   ▶▶I

Preset numbers can directly be input with the Numeric keys on the remote control unit.

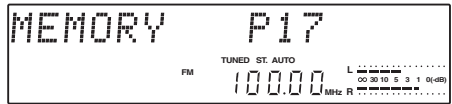**❹ Press the ENTER key again.**

ENTER

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

Up to 40 stations can be memorized.

● To memorize an RDS station, wait for the station name to appear on the display before performing step ❷.

MEMORY   P--

FM   TUNED ST. AUTO   L
100.00 MHz R
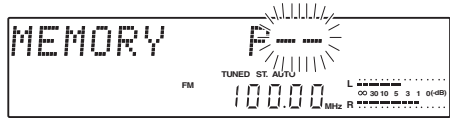
"MEMORY" lights (for approx. 20 sec.) .

MEMORY   P17

FM   TUNED ST. AUTO   L
100.00 MHz R   ∞ 30 10 5 3 1 0 (dB)

● If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.
● Sequence for pressing the Numeric keys on the remote control unit
To input "12" ..... +10, 2
To input "20" ..... +10, +10, 0

RDS (Radio Data System)

RDS is a system which transmits useful information (in the form of digital data) for FM broadcasts along 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.

Before using RDS
For reception of RDS stations, the auto memory function must be used to preset the stations. → 26

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

PS (Program Service Name) Display :
When an RDS broadcast is received, the station name is automatically displayed.

PTY (Program Type) Search : → 30
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

```
STATION1
```
FM   TUNED ST. AUTO RDS   L
      100.00 MHz R   ∞ 30 10 5 3 1 0(dB)

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

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

Switching the displays

Press the DISPLAY key.

DISPLAY

Each press of the DISPLAY key changes the display items;
PS (Program service name) ➡ Frequency ➡ Clock
● The **RDS** indicator lights up on the display, when a preset RDS broadcast is selected.

29 EN

# 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. → 26

1 Select the PTY search mode.

Press the PTY key on the remote control unit.

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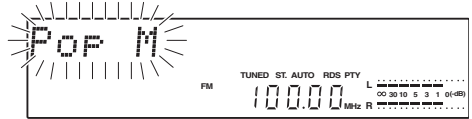
When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, **"None"** is displayed.

2 Select the desired program type.

Use program type table on the right for your convenience.

Select the desired program with the |◄◄ / ►►| key.

P.CALL
|◄◄   ►►|
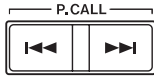
Select it while the **PTY** indicator is lit.

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

"No Data" blinks on the display if this operation is attempted before setting the AUTO MEMORY.

Program type table

|◄◄, ►►| keys	Program Type Name	Display
|◄◄ **DOWN** ↑ ↓ **UP** ►►|	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.*

Press the PTY key on the remote control unit.

PTY

- No sound is heard while the **PTY** indicator is blinking.
- If a program of the desired type cannot be found, **"No Program"** blinks, 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 cancel the search, press the **PTY** key again.

To change to a different program type :

Repeat steps 1, 2 and 3.

Display while searching for a Rock Music broadcast.

Program type name display.   Blinks.

Rock M

RDS PTY
∞ 30 10 5 3 1 0(dB)
R

PS display when an RDS station is received.

PS name display.   Goes off.

STATION1

TUNED ST. AUTO RDS
FM
100.00 MHz
L
∞ 30 10 5 3 1 0(dB)
R

Listening to external input sources

ENGLISH

1 Select an external input source.

Press the INPUT SELECTOR [INPUT SELECT] key.

INPUT SELECTOR

or

INPUT SELECT

2 Play the connected equipment.

3 Adjust the volume.

Turn the Volume knob.

VOLUME

Decrease the volume

Increase the volume

Each press of the key switches the display items;
  "PHONO"
  "TAPE"
  "AUX"

```
AUX        MON
           8:12     L ▪▪▪▪▪▪▪ ........
                    ∞ 30 10  5  3  1  0(dB)
                    R ▪▪▪▪▪▪▪ ........
```
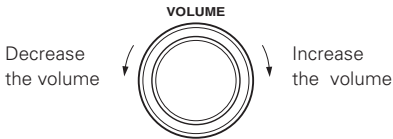
● The **AUX** and **PHONO** keys on the remote control unit can also be used for selecting the respective input sources.

Adjusting the external input level

This adjusts the input level for the external equipment (cassette deck etc.) connected to the external input terminal. Adjust the level for the external input sources to sound like an equivalent volume to CD.

❶ Press the MODE key and select "INPUT LEVEL" by pressing the |◀◀ / ▶▶| key, and press the ENTER key.

MODE ➡ **|◀◀** **▶▶|** ➡ **ENTER**

❷ Select input level by pressing the |◀◀ / ▶▶| key.

|◀◀ **▶▶|**

❸ Press the ENTER key.

ENTER

```
PHONO  LEVEL
          - 3     L ▪▪▪▪▪▪▪ ........
                  ∞ 30 10  5  3  1  0(dB)
                  R ▪▪▪▪▪▪▪ ........
```
Input level
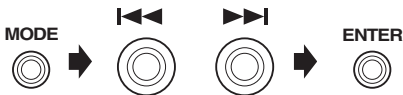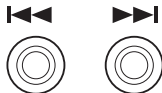
● Adjustment is possible at the range of –3 to +5.
● Adjusting the input level also changes the recording level from the input source connected to the external input jacks.
● The adjustment mode is displayed for approximately 20 seconds.

Various CD playback features

Listening to the desired sequence *(program playback)*

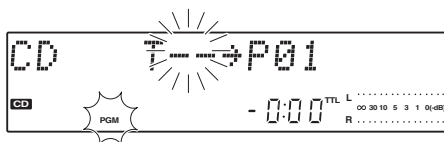**Use the following procedure to program desired tracks in a desired order. (up to 32 tracks)**

Select the CD input.

1 *Select PGM mode.*

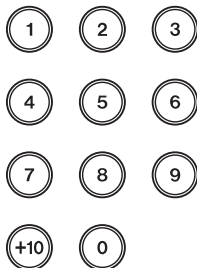**Press the P.MODE key on the remote control unit.**

Press the key in the stop mode.

P.MODE

CD   T──→P01
-0:00

The indicator lights up.

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

❶ **Select the track number with the Numeric keys on the remote control unit.**

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

(Go to step ❷ within 20 seconds.)

❷ **Press the ENTER key to confirm the selection.**

ENTER

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

CD   T10→P01
-0:00

Press the Numeric keys as shown below;
  To select track No. 23: +10, +10, 3
  To select track No. 30: +10, +10, +10, 0

● Up to 32 tracks can be programmed. When **"PGM FULL"** is displayed, no more tracks can be programmed.
● If you made a mistake, press the **CLEAR** key and enter the track No. again.
● When a track No. is entered, the track will be added to the end of the existing program.
● When the total time of CD program is 1000 minutes or more, the time display shows **"- - - : - -"**.

3 *Start playback.*

Press the CD ▶/❚❚ key.

**CD
▶/❚❚**

● Tracks will be played in the order they were programmed (following the program numbers).
● When the ❙◀◀ key is pressed once during playback, the track being played will be played from the beginning.
  To skip further to a track proceeding the current track, press the ❙◀◀ key twice repeatedly.
● When the ▶▶❙ 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 on the remote control unt.**
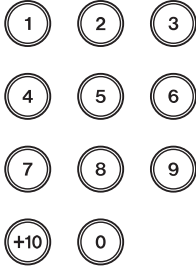
Press the key in the stop mode.

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

❷ **Press the ENTER key.**

ENTER

Press the Numeric keys as shown below;
   To select track No. 23: +10, +10, 3
   To select track No. 30: +10, +10, +10, 0

● Up to 32 tracks can be programmed. When **"PGM FULL"** is displayed, no more tracks can be programmed.
● If you made a mistake, press the **CLEAR** key and enter the track No. again.
● When a track No. is entered, the track will be added to the end of the existing program.

To clear a programmed track

Press the CLEAR key on the remote control unit.

Press the key in the stop mode.

CLEAR
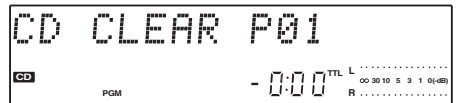
```
CD CLEAR P01
CD          PGM        - 0·0 0 TTL  L ∞ 30 10 5 3 1 0(dB)
                                    R
```
P-01 has been deleted

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

To get out of the PGM mode

Press the P.MODE key on the remote control unit to turn off the PGM indicator.

Press the key in the stop mode.

P. MODE

```
CD  T01
CD              0·0 0  L ∞ 30 10 5 3 1 0(dB)
                       R
```
Goes off
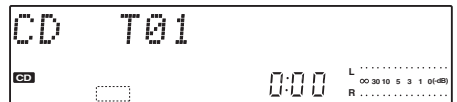
Note: The program mode is canceled when the unit is turned off or the disc is ejected. The programmed information is cleared entirely at this time.

Repeated playback

You can repeatedly listen to a favorite track or disc.

Select the CD input.

Repeating a single track

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

❷ **Press the CD ▶/Ⅱ key to play the track to be repeated.**

> CD
> ▶/Ⅱ

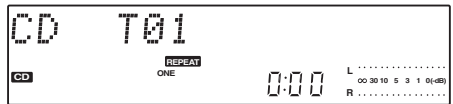❸ **Press the REPEAT key on the remote control unit to light up the REPEAT and ONE indicators.**

> REPEAT

● Press the **P.MODE** key to go off the **PGM** indicator if it is lit.

> CD   T01
> CD   0:00   L ··············
>   R ·············· ∞ 30 10 5 3 1 0(dB)

Confirm that this indicator is not lit.

Each press of the REPEAT key switches the repeat mode;
① **Single track Repeat (The REPEAT and ONE indicators light up.)**
② **All tracks Repeat (The REPEAT indicator lights up.)**
③ **Cancellation (The indicators go off.)**

> CD   T01
> REPEAT
> ONE
> CD   0:00   L ··············
>   R ·············· ∞ 30 10 5 3 1 0(dB)

Repeating all tracks in a disc

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

❷ **Press the REPEAT key on the remote control unit to light up the REPEAT indicator.**

> REPEAT

❸ **Press the CD ▶/Ⅱ key to start playback.**

> CD
> ▶/Ⅱ

● Press the **P.MODE** key to go off the **PGM** indicator if it is lit.

> CD   T01
> CD   0:00   L ··············
>   R ·············· ∞ 30 10 5 3 1 0(dB)

Confirm that this indicator is not lit.

Each press of the REPEAT key switches the repeat mode;
① **Single track Repeat (The REPEAT and ONE indicators light up.)**
② **All tracks Repeat (The REPEAT indicator lights up.)**
③ **Cancellation (The indicators go off.)**

> CD   T01
> REPEAT
> CD   0:00   L ··············
>   R ·············· ∞ 30 10 5 3 1 0(dB)

ENGLISH

Repeating selected tracks

❶ **Program the track sequence according to steps ❶ to ❷ of "Listening to the desired sequence (program playback)". →** 33

❷ **Press the REPEAT key on the remote control unit to light up the** REPEAT**.**

REPEAT

❸ **Press the CD ▶/❙❙ key to start playback.**

CD
▶/❙❙

Each press of the REPEAT key switches the repeat mode;

① **All tracks Repeat (The** REPEAT **indicator lights up.)**

② **Cancellation (The indicator goes off.)**

CD   T01   P01
CD   PGM   REPEAT   - 10:27 TTL L ....
                                         R ....
     30 10 5 3 1 0(dB)

● All selected tracks will be played back repeatedly.

To stop repeated playback

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

● The **REPEAT** indicator goes off and playback according to the current CD player mode.

Playing tracks in a random order (random playback)

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

Select the CD input.

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

❷ **Press the RANDOM key on the remote control unit.**

RANDOM

● Press the **P.MODE** key to go off the **PGM** indicator if it is lit.

Each press of the RANDOM key switches the random mode;

① **Random Playback (The RDM indicator lights up.)**

② **Normal Playback (The RDM indicator goes off.)**

CD   T01
CD ▶   RDM   0:23 L ▬▬▬▬............
                    ∞ 30 10 5 3 1 0(dB)
                    R ▬▬▬▬............
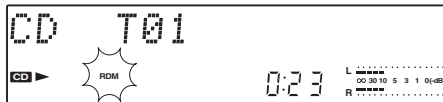
● Playback stops after each track has been played once.
● The random playback can also be repeated by pressing the **REPEAT** key on the remote control unit.

To select another track in the middle of playing one

Press the ▶▶❙ key.

┌─── P.CALL ───┐
| ❙◀◀ | ▶▶❙ |

● Pressing the ❙◀◀ key returns the playback position to the beginning of the track being played.

To cancel random playback

Press the RANDOM key on the remote control unit to go off the RDM indicator.

RANDOM

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

Timer operation

Sleep timer (SLEEP)

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

Timer playback (PROG. 1, PROG. 2) → ⌐38⌐

Playback of the selected input source starts at the specified time.

AI timer playback (PROG. 1, PROG. 2) → ⌐38⌐

When timer playback starts, the volume level increases gradually until the unit volume level is reached.
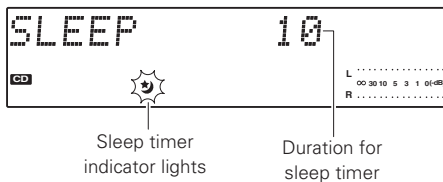
Sleep timer (SLEEP)

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

Press the SLEEP key repeatedly to set the time.

SLEEP

● 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   10

CD

L ....
∞ 30 10 5 3 1 0(-dB)
R ....

Sleep timer
indicator lights

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 cancelled.

37 EN

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 programmed and set to be activated or deactivated.

Adjust the clock before setting the timer → 14
Connect the related equipment under reference to "System connections" → 6 ~ → 8

1 *Make preparations for timer.*

Listening to CD	*Listening to radio*	*Listening to external input sources*
Set a disc. (Only normal playback is possible.)	Radio stations should be preset beforehand. → 25	Set the timer for a component connected to external input jacks.

● The programs of **"PROG.1"** and **"PROG.2"** can be set at the same time.
● For the simultaneous programs setting, keep the time intervals of 1 minute or more between timer programs, in order to avoid time overlapping.

2 *Set the timer setting program number.*

❶ **Press the MODE key and select "TIMER SET" by pressing the |◄◄/►►| key, and press the ENTER key.**

MODE ➤ |◄◄ ►►| ➤ ENTER
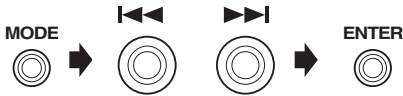
❷ **Select "PROG.1 SET" or "PROG.2 SET" by pressing the |◄◄ / ►►| key.**

|◄◄ ►►|
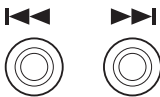
❸ **Press the ENTER key.**

ENTER

Each press of the |◄◄ / ►►| key switches the display items;

　　　　"PROG.1 SET"
　　　　"PROG.2 SET"

PROG.1 SET

CD   L ....
∞ 30 10 5 3 1 0(-dB)
R ....

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

3 *Select the program timer ON/OFF.*

❶ Select "PROG.1 ON" or "PROG.1 OFF" by pressing the ⏮ / ⏭ key.

⏮   ⏭

❷ Press the ENTER key.

ENTER

```
PROG.1 ON
```
CD ▶
L ················
R ················
∞ 30 10 5 3 1 0(<dB)
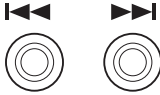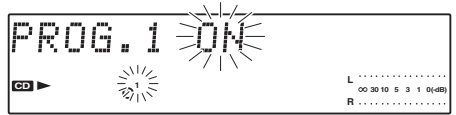
● If **"OFF"** is selected, the key function return to ordinary mode.

4 *Select an execution day of the programmed timer.*

❶ Select the day of week by pressing the ⏮ / ⏭ key.

⏮   ⏭

Returned.   Advanced.
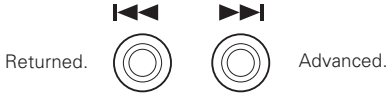
❷ Press the ENTER key.

ENTER

Each press of the ⏮ / ⏭ key changes the items;
  "EVERYDAY"
  "MONDAY"
  "TUESDAY"
  "WEDNESDAY"
  "THURSDAY"
  "FRIDAY"
  "SATURDAY"
  "SUNDAY"
  "MON-FRI"
  "TUE-SAT"
  "SAT-SUN"

```
EVERYDAY
```
CD ▶
L ················
R ················
∞ 30 10 5 3 1 0(<dB)

5 *Set the ON time, and then the OFF time.*

❶ Adjust the time by pressing the ⏮ / ⏭ key.

⏮   ⏭

The time is returned.   The time is advanced.

❷ Press the ENTER key.

ENTER

```
ON TIME
```
CD ▶
L ················
R ················
9:00
∞ 30 10 5 3 1 0(<dB)
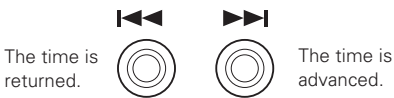
● For each of the ON time and OFF time, enter the figure of "hour" by performing steps ❶ and ❷, then enter the figure of "minute" in the same manner.
● If you make a mistake, press the **MODE** key and restart from step 2.

6 *Set the desired Timer operation.*

❶ Select the mode.

(1) **Select "PLAY" or "AI PLAY" by pressing the |◀◀ / ▶▶| key.**

|◀◀   ▶▶|

(2) **Press the ENTER key.**

ENTER

Each press of the |◀◀ / ▶▶| key changes the items;

"PLAY"(Timer play back)

"AI PLAY" (Timer play with gradually increasing volume)
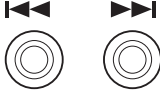
❷ Adjust the volume level.

(1) **Adjust the volume level by pressing the |◀◀ / ▶▶| key.**

|◀◀   ▶▶|

(2) **Press the ENTER key.**

ENTER

● 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.
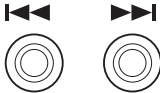
❸ Select input source.

(1) **Select a source to be played by pressing the |◀◀ / ▶▶| key.**

|◀◀   ▶▶|

(2) **Press the ENTER key.**

ENTER

Each press of the |◀◀ / ▶▶| key changes the items as follows.

"PLAY TUNER"

"PLAY CD"

"PLAY PHONO"

"PLAY TAPE"

"PLAY AUX"
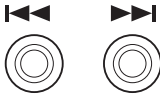
❹ Select broadcast station (only when TUNER is selected above).

(1) **Select the preset station No. by pressing the |◀◀ / ▶▶| key.**

|◀◀   ▶▶|

(2) **Press the ENTER key.**

ENTER

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

Note **To modify the setting contents, restart the timer setting from the beginning.**

ENGLISH

7 *Put the unit in standby mode.*

Press the ⏻ (POWER) key.

- When the unit enters the Standby mode, the **STANDBY/TIMER** indicator lights in green.
- If there is a power failure or the AC power cord is unplugged 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.
- Active timer program can be seen on the display by pressing the ■**(STOP)** key.

Deactivating and activating the timer program

Once the timer setting procedure has been performed, the timer program can be deactivated or activated easily.

When the unit is in on, press the TIMER key.

TIMER   **or**   TIMER

Each press of the TIMER key changes the items ;

- 🕐 **1**   Activate **PROG.1** timer.
- 🕐 **2**   Activate **PROG.2** timer.
- 🕐 **1, 2**   Activate both **PROG.1** and **PROG.2** timer.

Deactivate the timer. (Timer indicator is off.)

- The timer program contents remain even if the timer is deactivated.
- After a power failure or the AC power cord has been unplugged, the **STANDBY/TIMER** indicator blinks in green. In this case, set the present time, and then go through the timer setting procedure again.
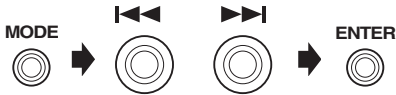
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Setting DIMMER functions

Select DIMMER mode.

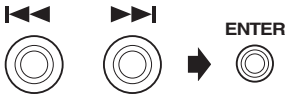Press the DIMMER key on the remote control unit to select DIMMER mode.
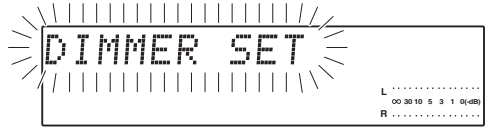
DIMMER

Procedure on the main unit

❶ Press the MODE key and select "DIMMER SET" by pressing the I◀◀ / ▶▶I key, and press the ENTER key.

MODE   I◀◀   ▶▶I   ENTER

❷ Press the I◀◀ / ▶▶I key to select DIMMER mode and press the ENTER key.

I◀◀   ▶▶I   ENTER

Each press of the I◀◀ / ▶▶I key changes functions in order of: "DIMMER 1" → "DIMMER 2" → "DIMMER 3" → "DIMMER OFF".

DIMMER SET

L ················
R ················
∞ 30 10 5 3 1 0(dB)

Each press of the DIMMER key changes items;

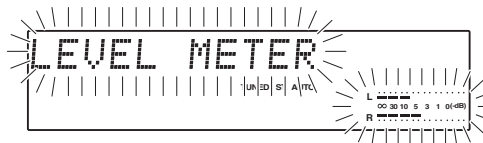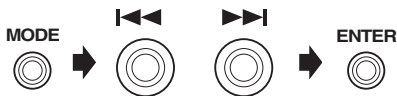|	
"DIMMER OFF":	Normal brightness
"DIMMER 1":	Brightness of the display is reduced.
"DIMMER 2":	Brightness of the display is reduced. Key illumination goes off. The sound indicators go off.
"DIMMER 3":	Key illumination goes off.

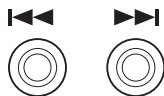# *Switching the level meter*

1 *Select "LEVEL METER".*

Press the MODE key and select "LEVEL METER" by pressing the I◄◄ / ►►I key, and press the ENTER key.
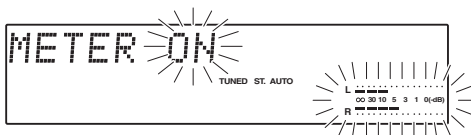
MODE ➡ I◄◄ ➡ ►►I ➡ ENTER

LEVEL METER

● The character information display and level meter start to blink.

2 *Switch between ON and OFF.*

❶ Select ON or OFF by pressing the I◄◄ / ►►I key.

I◄◄   ►►I

❷ Press the ENTER key.

ENTER

METER ON

METER OFF

● Each press of the I◄◄ / ►►I key switches **"ON"** and **"OFF"** of the level meter. The **"ON"** or **"OFF"** display blinks.

### *AUTO POWER SAVE (A.P.S.) function*
When the unit is ON and the unit is left for about 30 minutes with CD not operating, the unit is switched off (standby) 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 "A.P.S. SET".

MODE ➡ I◄◄ ➡ ►►I ➡ ENTER
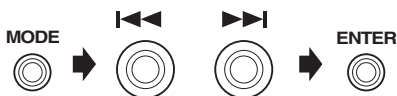
(Press the ENTER key while the "A.P.S. SET" is blinking.)

❷ Select "A.P.S. ON" or "A.P.S. OFF".

I◄◄   ►►I
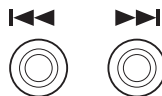
❸ Press the ENTER key.

ENTER

● When the TUNER or an external input is selected, A.P.S. function operates only when the volume is set to zero or when MUTE is on.

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Important items

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 ▶/Ⅱ key.**

```
CD 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

Please note that the following items will be deleted from the main unit's memory if the AC power cord is disconnected from the AC wall outlet for approximately 1 day.

- Power mode
- Input selector settings
- Volume level
- Sound preset settings
- PHONO, TAPE, AUX input level
- A.P.S. setting
- Sound mode settings
- Room Equalizer settings
- Manual Equalizer settings
- D-BASS settings
- Dimmer setting
- Broadcast band
- Frequency setting
- Preset stations
- Tuning mode
- Timer settings

Maintenance

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.

Disc handling precautions

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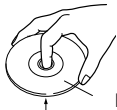
Hold the disc so that you do not touch the playing surface.

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.

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 marking on the label surface.

Never play a cracked or warped disc

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

Disc accessories

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

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.

Resetting the microcomputer

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the AC 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.

● CD tray will open if the microcomputer is reset with a disc loaded. In this case, please press the CD open/close key to close the tray after removing the disc.

Unplug the AC power cord from the AC wall outlet, then while holding the ⏻ (POWER) key down, plug it in the AC wall outlet again.

After resetting the microcomputer, the display will show as follows:

INITIALIZE

Amplifier section/Speaker section

| Symptom	Remedy
Sound is not produced.	● Connect properly referring to "**System connections**". → 6 ● Adjust to a required volume. → 16 ● Switch MUTE OFF. → 16 ● Unplug the headphone plug.
The STANDBY/TIMER indicator blinks in red and no sound is output.	● A speaker cord is short-circuited. Turn the power off and re-connect the speaker cord.
The STANDBY/TIMER indicator blinks in green.	● Adjust the present time again. → 14
No sound from the headphones.	● Insert the headphones plug correctly. → 16 ● Adjust to a required volume. → 16 ● Switch MUTE OFF. → 16
Sound is not produced from the left or right speaker.	● Connect cables properly referring to "**System connections**". → 6 ● Adjust balance. → 16
A humming noise is generated when the PHONO input selector is selected.	● Insert the audio cord plugs securely into the PHONO jacks. → 8 ● Connect the Earth cord to the GND terminal on the rear panel. → 8
The clock display blinks without changing the figures.	● Adjust the present time again. → 14
Timer operation is not possible.	● Adjust the present time referring to "**Clock adjustment**". → 14 ● Set the timer ON time and OFF time. → 38

Tuner section

Symptom	Remedy	
Radio stations cannot be received.	● Connect antennas. ● Select a band. ● Tune to the frequency of the desired station.	→⑦→⑧ →25 →25
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. ● Preset stations again.	→26 →26

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**". ● Refer to "**Caution on condensation**" and remove the condensation by evaporation.	 →45 →44
Sound is not produced.	● Press the **CD ▶/Ⅱ** key. ● Clean the disc referring to "**Disc handling precautions**". ● Discs which are recorded by data formats such as MP3 and WMA cannot be played back.	 →45
Sound skips.	● Clean the disc referring to "**Disc handling precautions**". ● Install the unit in a place not subject to vibrations.	→45

Remote control unit

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

Displayed messages

Displayed Message	Meaning	
CAN'T SETUP	● The microphone for **ROOM EQ** is not connected or headphones are connected.	→17
CD NO DISC	● A CD is not inserted in the unit.	
CD TEXT FULL	● The disc has the text data of more than 1k byte.	→24
CHECK DISC	● TOC of the disc cannot be read. Or the disc (CD-R) which is not finalized is inserted. Check the disc.	
PGM FULL	● An attempt is made to select a 33rd track during programing of CD.	→33
R.EQ ERROR1	● The measurement is impossible because measuring room is too noisy.	→17
R.EQ ERROR2	● The measurement is impossible because no signal is input in the microphone.	→17
TRAY OPEN	● CD tray is opened.	

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Specifications

[Amplifier section]
Effective output power during STEREO operation
    (1 kHz, 10% T.H.D., at 6 Ω) ...... 30 W + 30 W (RMS)
Rated output power during STEREO operation
    (63 Hz ~ 12.5 kHz, at 6 Ω) .... 24 W + 24 W (DIN)
Total harmonic distortion
    .... 0.007 % (AUX IN, 1 kHz, 11 W, 6 Ω)
Tone Control Characteristics
    BASS (TURN OVER 100 Hz) .... ±3.1 dB (at 100 Hz)
           (TURN OVER 150 Hz) .... ±5.1 dB (at 100 Hz)
           (TURN OVER 200 Hz) .... ±5.7 dB (at 100 Hz)
    TREBLE (TURN OVER 5 kHz) ... ±5.7 dB (at 10 kHz)
           (TURN OVER 7 kHz) ... ±5.1 dB (at 10 kHz)
           (TURN OVER 10 kHz) . ±3.1 dB (at 10 kHz)
Graphic Equalizer Characteristics
    Adjustable Center Frequency
    .... 63 Hz, 160 Hz, 400 Hz, 1 kHz,
           2.5 kHz, 6.3 kHz, 16 kHz
    Variable Range .... ±8 dB
D-Bass (+10) .... +16 dB (40 Hz, Vol. 60)
Input (Sensitivity / Impedance)
    PHONO .... 5.5 mV / 31 kΩ
    LINE (AUX, TAPE) .... 400 mV / 30 kΩ
Output (Level / Impedance)
    TAPE REC OUT .... 400 mV / 200 Ω
    SUBWOOFER PRE OUT .... 2V / 620 Ω

[Tuner section]
FM tuner section
    Tuning frequency range .... 87.5 MHz ~ 108 MHz
MW (AM) tuner section
    Tuning frequency range .... 531 kHz ~ 1,602 kHz

[CD player section]
Laser .... Semiconductor laser
Over sampling .... 8 fs (352.8 kHz)
D/A Conversion .... 1 Bit
Frequency response
    .... 20 Hz ~ 20 kHz (TAPE REC OUT)
Signal to noise ratio
    .... More than 97 dB (TAPE REC OUT)

[General]
Power consumption .... 70 W
Standby power consumption .... less than 0.3 W
Dimensions .... W: 270 mm (10-5/8")
           H: 126 mm (4-15/16")
           D: 368 mm (14-1/2")
Weight (net) .... 5.6 kg (12.4 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
● Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

KENWOOD

For your records

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

Model _____ Serial Number _____

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