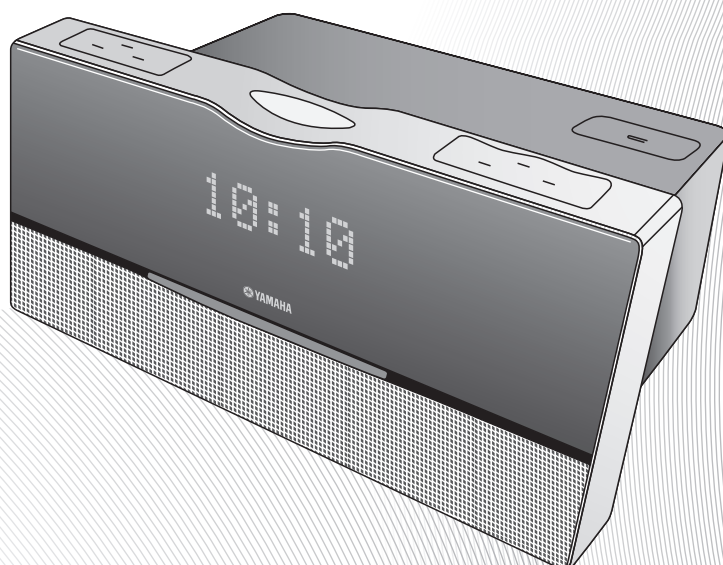


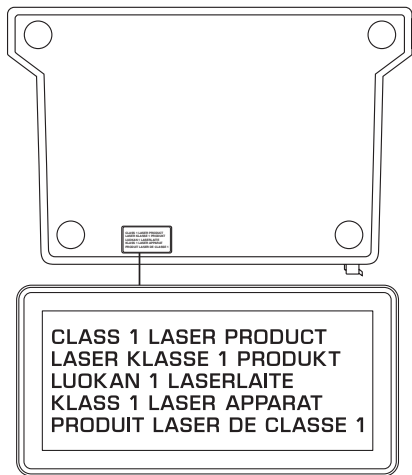
# TSX-100

DESKTOP AUDIO SYSTEM  
SYSTEME AUDIO DESKTOP

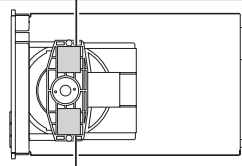


OWNER'S MANUAL  
MODE D'EMPLOI  
BEDIENUNGSANLEITUNG  
BRUKSANVISNING  
MANUALE DI ISTRUZIONI  
MANUAL DE INSTRUCCIONES  
GEBRUIKSAANWIJZING  
ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ

<p><b>CAUTION</b></p> <p>Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.</p>
<p><b>AVERTISSEMENT</b></p> <p>L'utilisation de commandes et l'emploi de réglages ou de méthodes autres que ceux décrits ci-dessous, peuvent entraîner une exposition à un rayonnement dangereux.</p>
<p><b>VORSICHT</b></p> <p>Die Verwendung von Bedienelementen oder die Einstellung bzw. die Ausführung von anderen als in dieser Anleitung beschriebenen Vorgängen kann zu Gefährdung durch gefährliche Strahlung führen.</p>
<p><b>OBSERVERA</b></p> <p>Användning av reglage eller justeringar eller utförande av åtgärder på annat sätt än så som beskrivs här kan resultera i farlig strålning.</p>
<p><b>ATTENZIONE</b></p> <p>L'uso di controlli, regolazioni, operazioni o procedure non specificati in questo manuale possono risultare in esposizione a radiazioni pericolose.</p>
<p><b>PRECAUCIÓN</b></p> <p>El uso de los controles, los ajustes o los procedimientos que no se especifican en este manual pueden causar una exposición peligrosa a la radiación.</p>
<p><b>LET OP</b></p> <p>Gebruik van bedieningsorganen, instellingen of procedures anders dan beschreven in dit document kan leiden tot blootstelling aan gevaarlijke stralen.</p>
<p><b>ПРЕДОСТЕРЕЖЕНИЕ</b></p> <p>Использование органов управления или произведение настроек или выполнение процедур, не указанных в данной инструкции, может отразиться на выделении опасной радиации.</p>
<p><b>CAUTION</b> INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.</p> <p><b>VORSICHT!</b> UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSPERRUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN!</p> <p><b>VARNING</b> OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.</p> <p><b>ADVARSEL</b> USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSPERRE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.</p> <p><b>VAROITUS!</b> SUOJAKOTEL OI EI SAA AVATA. LAITE SISÄLTÄÄ LASERDIODIN, JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASER SÄTEILYÄ.</p> <p><b>ADVARSEL</b> USYNLIG LASERBESTRÅLING NÅR DENNE DELEN ER ÅPEN OG SIKKERHETSSPERREN ER UTKOBLET. UNNGÅ UTSETTELSE FOR STRÅLING.</p>



CAUTION	- INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.
VORSICHT!	- UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSPERRUNG ÜBERBRÜCKT IST, NICHT DEM STRAHL AUSSETZEN!
VARNING	- OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.



ADVARSEL	- USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VAROITUS!	- SUOJAKOTEL OI EI SAA AVATA. LAITE SISÄLTÄÄ LASERDIODIN, JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASERSÄTEILYÄ.
ADVARSEL	- USYNLIG LASERBESTRÅLING NÅR DENNE DELEN ER ÅPEN OG SIKKERHETSSPERREN ER UTKOBLET. UNNGÅ UTSETTELSE FOR STRÅLING.

## VAROITUS

Muiden kuin tässä esitettyjen toimintojen säädön tai asetusten muutto saattaa altistaa vaaralliselle säteilylle tai muille vaarallisille toiminnoille.

## DK

Advarsel: Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

Bemærk: Netafbryderen POWER OFF er sekundært indkoblet og afbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.

## N

Observer: Nettbryteren POWER OFF er sekundært innkoplet. Den innebygdenetdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

## S

Klass 1 laseraparat

Varning! Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

Observera! Strömbrytaren POWER OFF är sekundärt kopplad och inte bryter inte strömmen från nätet. Den inbyggda nätdelen är därför ansluten till elnätet så länge stickproppen sitter i vägguttaget.

## SF

Luokan 1 laserlaite

Varoitus! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

Oikeus muutoksiin varataan. Laite ei saa olla alttiina tippu- ja roiskevedelle.

Huom. Toiminnanvalitsin POWER OFF on kytketty toisiopuolelle, eikä se kytke laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettyä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.

### VARO!

AVATTAESSA JA SUOJALUKITUS OHITETTAESSA  
OLET ALTTIINA NÄKYMÄTTÖMÄLLE  
LASERSÄTEILYLLE.  
ÄLÄ KATSO SÄ TEESEEN.

### VARNING!

OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR  
ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA  
EJ STRÅLEN.

## ■ For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

### Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

## ■ Special Instructions for U.K. Model

### IMPORTANT

THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Make sure that neither core is connected to the earth terminal of the three pin plug.

## Caution: Read this before operating your unit.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this unit in a well ventilated, cool, dry, clean place with at least 10 cm on the top, 10 cm on the left and right, and 10 cm at the back of this unit — away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.
- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  - Other components, as they may cause damage and/or discoloration on the surface of this unit.
  - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
  - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cord and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
- 17 Before moving this unit, press POWER OFF to set this unit to the standby mode, and disconnect the AC power plug from the wall outlet.
- 18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- 19 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- 20 Install this unit near the AC outlet and where the AC power plug can be reached easily.
- 21 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- 22 Excessive sound pressure from earphones and headphones can cause hearing loss.

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off by POWER OFF. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

### WARNING

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

### LASER SAFETY

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

### DANGER

This unit emits visible laser radiation when open. Avoid direct eye exposure to beam. When this unit is plugged into the wall outlet, do not place your eyes close to the opening of the disc tray and other openings to look into inside.

The laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This symbol mark is according to the EU directive 2002/96/EC.

This symbol mark means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please act according to your local rules and do not dispose of your old products with your normal household waste.

# Contents

## INTRODUCTION

<b>Features .....</b>	<b>2</b>
<b>Controls and functions .....</b>	<b>3</b>
Front/top view .....	3
Remote control.....	4

## PREPARATION

<b>Preparation before using this unit .....</b>	<b>6</b>
Turning on the power.....	6
Adjusting the clock .....	7

## OPERATION

<b>Basic operation.....</b>	<b>8</b>
Selecting the input source.....	8
Adjusting the volume level.....	8
Adjusting sounds .....	9
Useful operations for the display .....	10
<b>Listening to CDs, MP3/WMA files, and external sources .....</b>	<b>11</b>
Listening to CDs.....	11
Listening to MP3/WMA files stored on your USB device.....	12
Switching the playback information display .....	14
Repeat and random playback.....	15
Playing back external sources.....	15
<b>Listening to FM and AM radio stations .....</b>	<b>16</b>
Connecting antennas.....	16
Tuning radio stations .....	16
Presetting radio stations automatically (Auto preset).....	17
Presetting radio stations manually (Manual preset).....	17
Selecting preset radio stations (Preset tuning).....	18
Receiving Radio Data System stations .....	18
<b>Using the timer functions .....</b>	<b>20</b>

## ADDITIONAL INFORMATION

<b>Troubleshooting.....</b>	<b>22</b>
General.....	22
Disc playback .....	22
MP3/WMA file playback .....	23
Radio reception .....	23
Remote control .....	24
<b>Notes on discs.....</b>	<b>25</b>
Disc information .....	25
Handling a disc .....	25
<b>Glossary.....</b>	<b>26</b>
<b>Specifications .....</b>	<b>26</b>

INTRODUCTION

PREPARATION

OPERATION

ADDITIONAL  
INFORMATION

English



# Features

- **Stylish compact all-in-one design**
- **Audio CDs, MP3 CDs, and WMA CDs playable**
- **USB supported**
- **Sophisticated FM/AM tuner**
- **Simple but functional remote control**
- **Timer and clock function**

**SRBass**

“Swing Radiator Bass™” is a trademark of YAMAHA CORPORATION.

## ■ About this manual

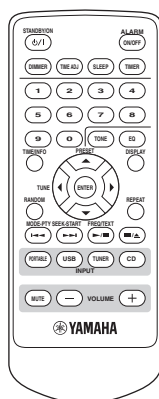
- In this manual, operations that can be performed with either this unit or its remote control are explained using the remote control.
- The symbol “ ” with page number(s) indicates the corresponding reference page(s).
-  indicates a tip for your operation.
- Notes contain important information about safety and operating instructions.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc.

In case of differences between the manual and the product, the product has priority.

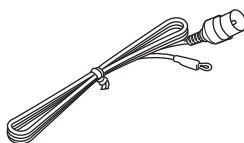
## ■ Supplied accessories

This product includes the following accessories. Make sure you have all of the following parts.

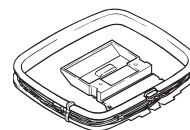
**Remote control**



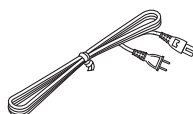
**Indoor FM antenna**



**AM loop antenna**

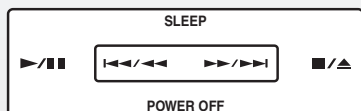


**Power cable**



# Controls and functions

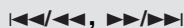
## Front/top view



Starts and pauses playback. (📖 P. 11)



Stops playback or ejects a disc when playback is stopped. (📖 P. 11)



Skips to the beginning of the current or next track.

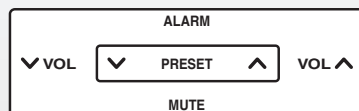
Press and hold the key to search backward/forward. (📖 P. 11)

### POWER OFF

Sets this unit to the standby mode. (📖 P. 6)

### SLEEP

Sets the sleep timer. (📖 P. 21)



### VOL ^, v

Adjusts volume level. (📖 P. 8)

### MUTE

Turns off the volume. (📖 P. 8)

### PRESET ^, v

Selects the preset stations. (📖 P. 17)

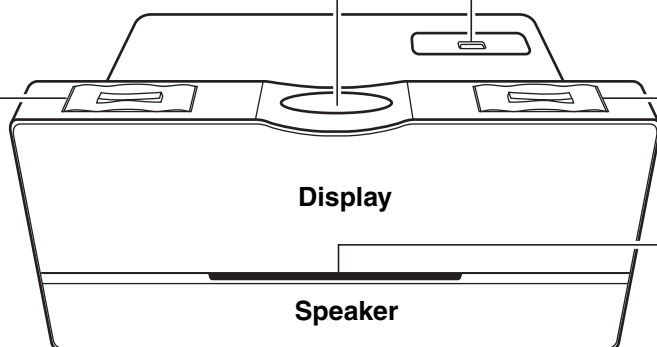
### ALARM

Sets the alarm function. (📖 P. 20)

### INPUT/SNOOZE

Turns on this unit and selects an input source (📖 P. 6, 8), or enables the snooze function when alarm is activated. (📖 P. 20)

USB port (📖 P. 12)



Display

Speaker

Disc slot (📖 P. 11)

## Remote control

STANDBY/ON



Turns on this unit. (P. 6)

DIMMER

Changes the brightness of the display.  
(P. 10)

TIME/INFO



Displays the disc/USB information.  
(P. 14)

Cursor (▲/▼/◀/▶) and ENTER

RANDOM



Sets this unit to the random playback mode.  
(P. 15)

PORTABLE USB TUNER CD  
INPUT

Select the source you want to listen to.

Press **PORTABLE** to listen to the source played back on the component which is connected to the PORTABLE jack on the rear panel of this unit. (P. 15)

Press **USB** to listen to the source stored in the connected USB memory. (P. 12)

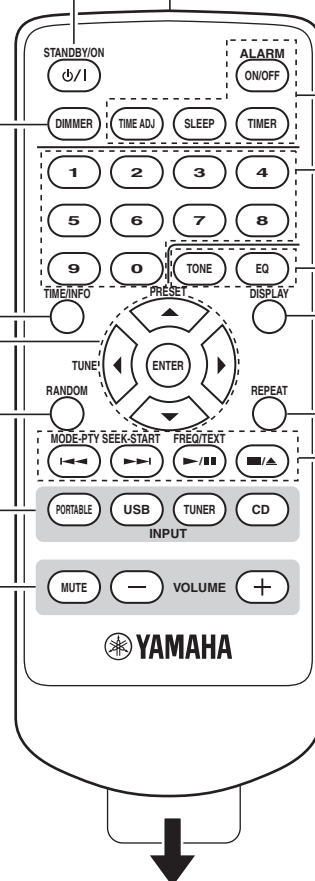
Press **TUNER** to listen to FM/AM radio broadcast. Each time you press **TUNER**, the source switches between FM and AM. (P. 16)

Press **CD** to listen to a disc inserted into the disc slot.  
(P. 11)

MUTE — VOLUME +

Adjust volume. (P. 8)

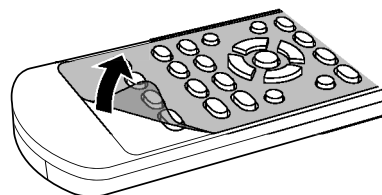
Infrared signal transmitter



Remove the insulation sheet before using the remote control.



Remove the transparent sheet before using the remote control.





ALARM

ON/OFF

TIME ADJ

SLEEP

TIMER

**Set various timer and clock function.****ALARM ON/OFF:** Activates or cancels the alarm function. (P. 20)**TIME ADJ:** Adjusts the clock of this unit. (P. 7)**SLEEP:** Sets the sleep timer. (P. 21)**TIMER:** Sets the countdown timer. (P. 21)

1

2

3

4

**Select the desired track or preset station directly.** (P. 11, 13)

5

6

7

8

9

0

TONE

EQ

**Adjust the sound.****TONE:** Adjusts the bass and treble balance. (P. 9)**EQ:** Selects the equalizer mode. (P. 9)

DISPLAY

**Changes the displayed information.** (P. 10)

REPEAT

**Sets this unit to the repeat playback mode.** (P. 15)

MODE/PTY SEEK-START

PREQ/TEXT

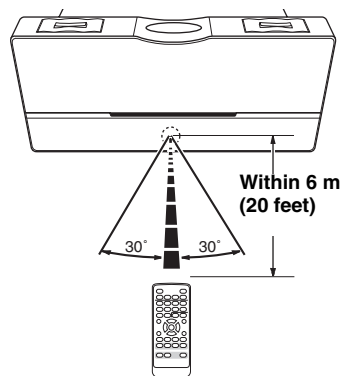
**Control playback.**

◀◀, ▶▶: Skips to the beginning of the current or next track.

Press and hold the key to search backward/forward. (P. 11, 12)

▶/||: Starts and pauses playback. (P. 11, 12)

■/▲: Stops playback or ejects a disc when playback is stopped. (P. 11, 12)

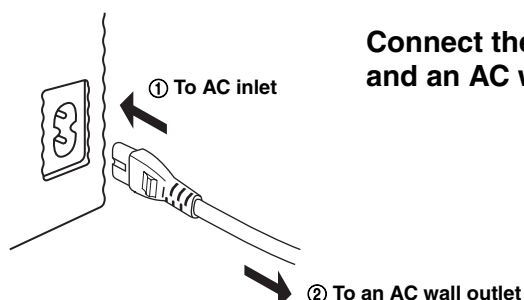
**Using the remote control****Use the remote control within 6 m (20 feet) of this unit and point it toward the remote control sensor.****Notes**

- Do not put obstacles between the sensor of this unit and the remote control. Doing so, you cannot operate this unit by the remote control.
- Do not spill liquid on the remote control.
- Do not drop the remote control.
- Do not leave the remote control in the following places:
  - hot or humid places such as bathroom or near a heater
  - extremely cold places
  - dusty places

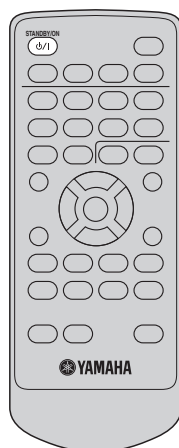
**For replacement of the battery** P. 24.

# Preparation before using this unit

## Turning on the power



Connect the power cable to the AC inlet of this unit and an AC wall outlet.



**Turn on this unit.**

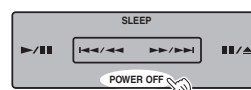
Press again to set this unit to the standby mode.

### On the top panel

You can also perform the above operations on the top panel.



**Turn on this unit.**

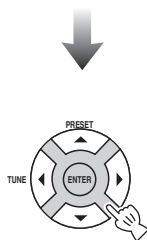
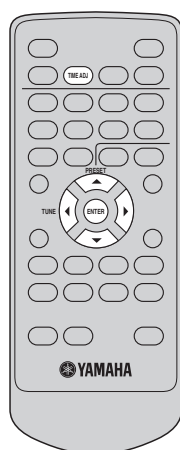


**Set this unit to the standby mode.**



- During the standby mode, the power consumption is reduced.
- You can display clock during the standby mode. Press and hold **MUTE** on the top panel during the standby mode. Once “ECO ON” flashes in the front panel display, press **MUTE** again to select “ECO OFF”, and then leave for several seconds. To turn off the clock, select “ECO ON”.
- The memory back-up circuit prevents the stored data from being lost even if this unit is in the standby mode. However, the stored data will be lost if the power cable is disconnected from the AC wall outlet or if the power supply is cut off for more than one week.

## Adjusting the clock



### Adjust date and time.

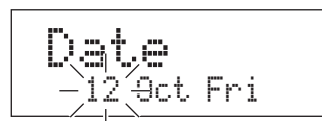


Selects year/date/hour/minute.



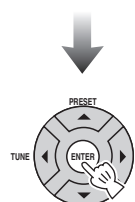
Increases or decreases the date or time.

#### Examples



#### Note

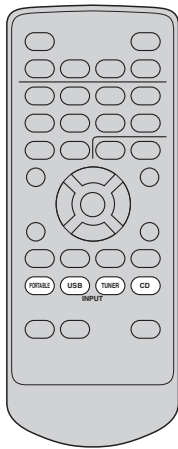
Time appears in 12-hour notation (AM/PM) depending on the model. For example, "04:00PM".



**Confirm.**

# Basic operation

## Selecting the input source



To listen to a CD



To listen to radio stations (FM/AM)



To listen to MP3/WMA files stored on your USB device



To listen to music played on a portable audio device

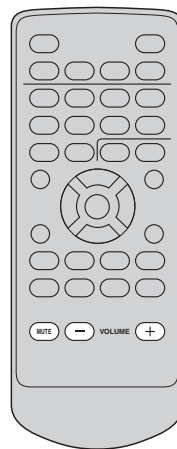


**On the top panel**



Press repeatedly.

## Adjusting the volume level



To increase or decrease the volume level



To turn off the sound

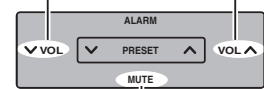


Press again to resume the volume level.

**On the top panel**

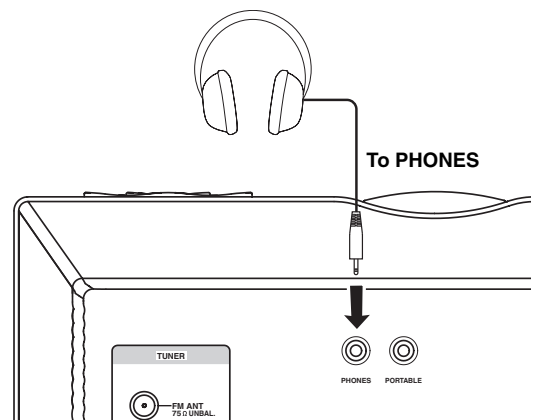
Decreases the volume level.

Increases the volume level.



Turns off the sound.

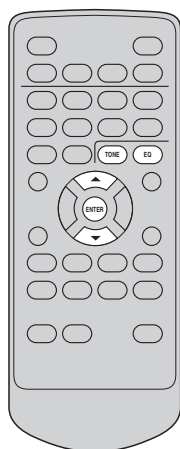
## ■ Using the headphones



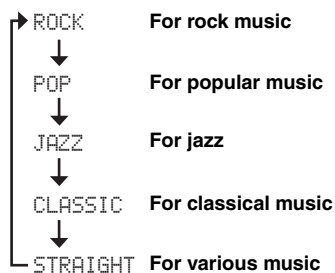
Even when you connect your headphones, the alarm sound is output through the speaker.

## Adjusting sounds

### ■ Adjusting the total sound balance



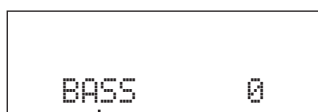
Press repeatedly.



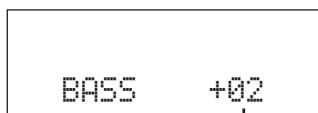
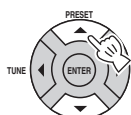
### ■ Adjusting bass/treble balance



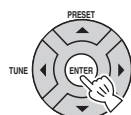
Press repeatedly.



Select "BASS" (low frequency range)  
or "TREBLE" (high frequency range).

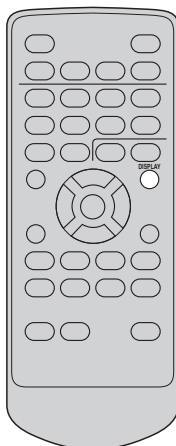


Adjust the level (-10 to +10 dB).

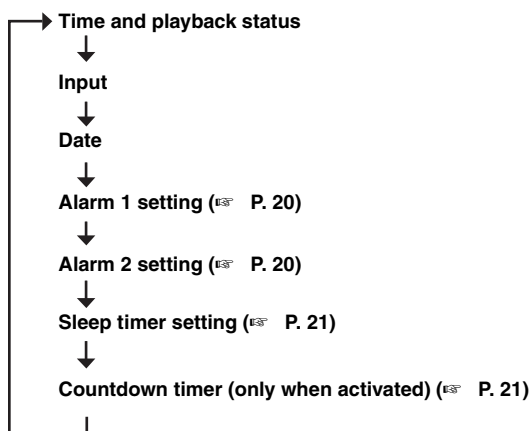


## Useful operations for the display

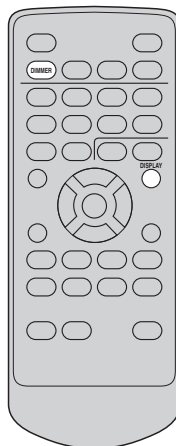
### ■ Switching the display information



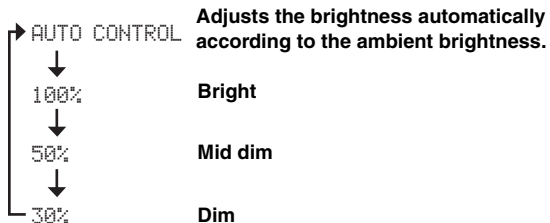
  
Press repeatedly.



### ■ Dimming the display

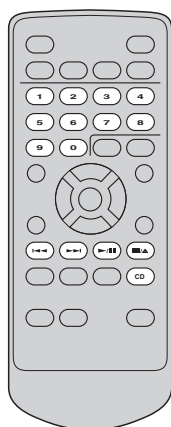
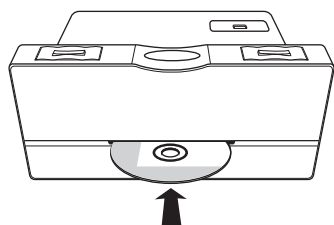


  
Press repeatedly.



# Listening to CDs, MP3/WMA files, and external sources

## Listening to CDs

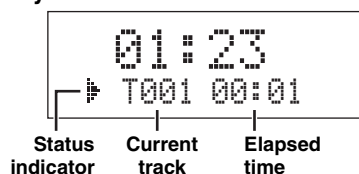


### Insert your disc.

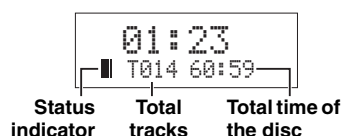


You can also play back MP3/WMA files recorded on a disc. For operation instruction, refer to "Listening to MP3/WMA files stored on your USB device" (P. 12).

### Playback starts.

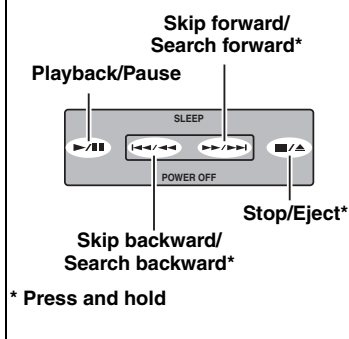


### When the playback is stopped



- You can switch the playback information display (P. 14).
- You can also play back MP3/WMA files recorded on a disc. Refer to "Listening to MP3/WMA files stored on your USB device" (P. 12).

### On the top panel



### To pause playback



To cancel pause, press ►/|| again.

### To skip tracks

Backward



Forward



### To search backward/forward

Backward



Forward

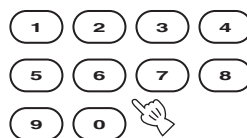


Press and hold

### Note

No sound is heard when you search during pause.

### To specify a track



Enter the track number you want to listen to.

### To stop playback



### To eject the disc

While playback is stopped



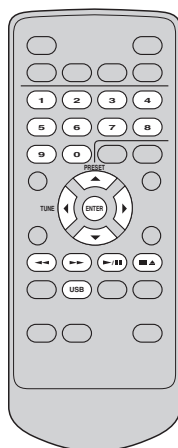
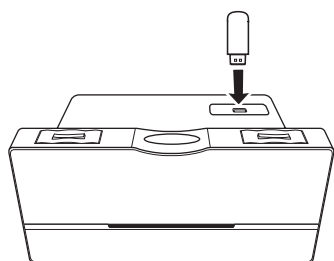
Press

During playback



Press and hold

## Listening to MP3/WMA files stored on your USB device



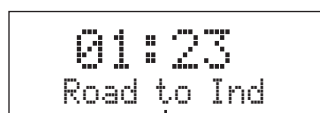
### Connect a USB device.

This unit supports USB mass storage class devices (e.g., flash memories or portable audio players) using FAT16 or FAT32 format.

#### Notes

- Some devices may not work properly even if they meet the requirements.
- Do not connect devices other than USB mass storage class devices (such as USB chargers or USB hubs), PCs, card readers, external HDD, etc.
- Yamaha will not be held responsible for any damage to or data loss on the USB device occurring while the device is connected to this unit.
- Playability of and power supply to all kind of USB devices are not guaranteed.

### Playback starts.



Song title/artist name/album name

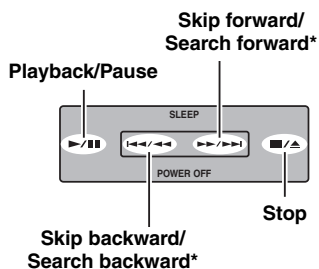


You can switch the playback information display (P. 14).

#### Note

The reading time may exceed 30 seconds depending on the number of files/folders.

### On the top panel



\* Press and hold

### To stop playback



### To pause playback



To cancel pause, press ►/|| again.

### To skip tracks

Backward



Forward



### To search backward/forward

Backward



Forward



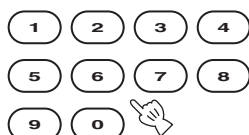
Press and hold

#### Note

Pause will be canceled when you start searching.



## ■ To specify a track for playback

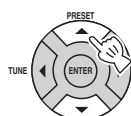


Enter the track number you want to listen to.

### Notes

- Depending on the conditions of recording such as software recording setting, this unit may not be able to play a disc or USB device in the order of recording.
- For an MP3 or WMA disc/USB device, the number assigned to each file corresponds to the file sequence in the disc/USB device, not in the individual folders.

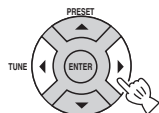
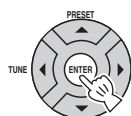
## ■ To select a folder/file for an MP3 or WMA format file



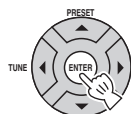
Select a folder.



Only when MP3/WMA disc playback



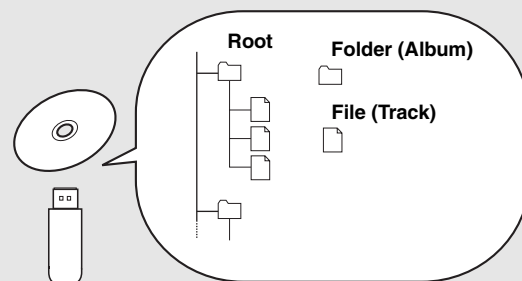
Select a file.



Start playback.

### About MP3 or WMA files

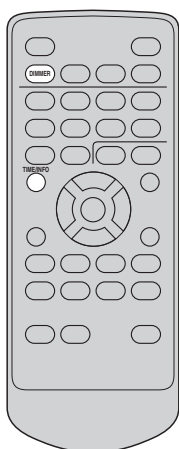
You can play back MP3 or WMA files recorded on your CD-R, CD-RW, or USB device. This unit regards folders in a disc/USB device as albums, and files as tracks as shown below. Folder hierarchy is disregarded.



### Notes

- This unit can display up to 255 files and 255 folders. However, less than 255 files/folders may be displayed if some files/folders are not playable on this unit.
- If the USB device is partitioned, only the first partition is displayed.
- Some files may not work properly depending on the USB device specification.
- Copyright-protected files cannot be played back.
- This unit can play back files of 4 GB in size or less.

## Switching the playback information display



Press repeatedly

Each time you press the key, the information display changes.

### Note

Some special characters may not be shown properly.

### ■ Audio CDs

#### Elapsed time of the current track (Default)



01:23  
▶ T014 02:21

#### Remaining time of the current track



▶ T014-03:41

#### Total time of the disc



▶ TTL 54:41

#### Remaining time of the disc



▶ TTL -12:28

#### Back to the default display

### ■ MP3/WMA files

#### Scrolling display\* (Default)



01:23  
to order-Fr

#### Elapsed time of the current file



▶ T014 02:21

#### Remaining time of the current file



▶ T014-03:41

#### File name



Road-to-ind

#### Song title



Road to Ind

#### Artist name



Frankie Zie

#### Album name



Made to ord

#### Year



2007

#### Comment

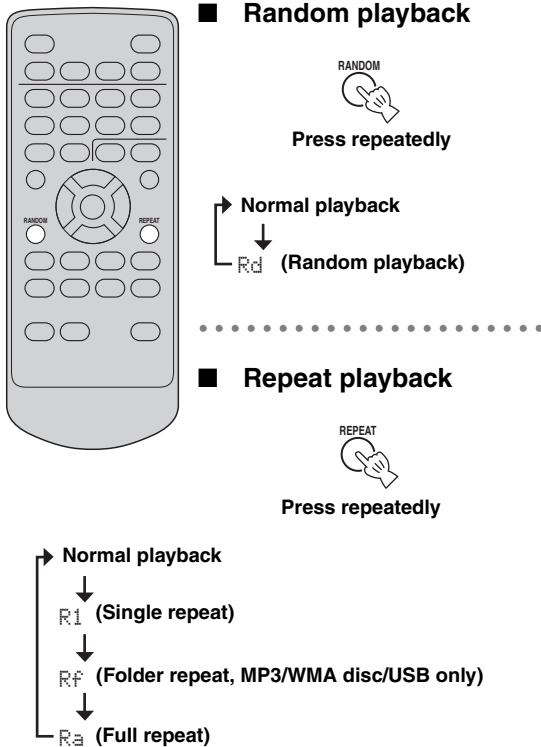


Live at KCE

#### Back to the default display

\* Scrolling display shows the song title, artist name, and album name of the selected item in sequence.

## Repeat and random playback



### Note

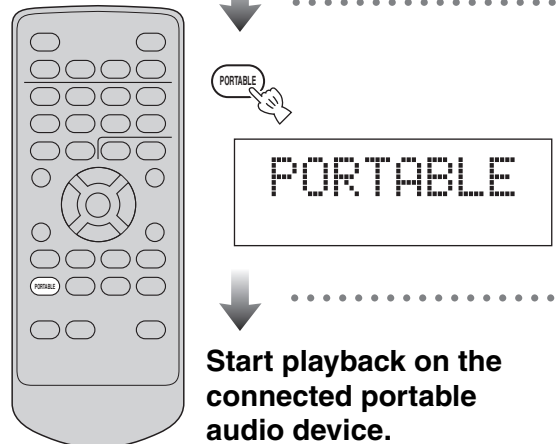
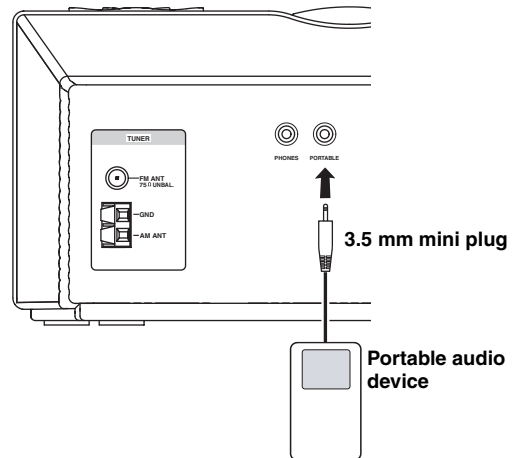
Repeat and random play modes are canceled when the playback is stopped or the disc/USB device is removed.

## Playing back external sources

### Note

Turn down the volume of this unit and your portable audio device before connection.

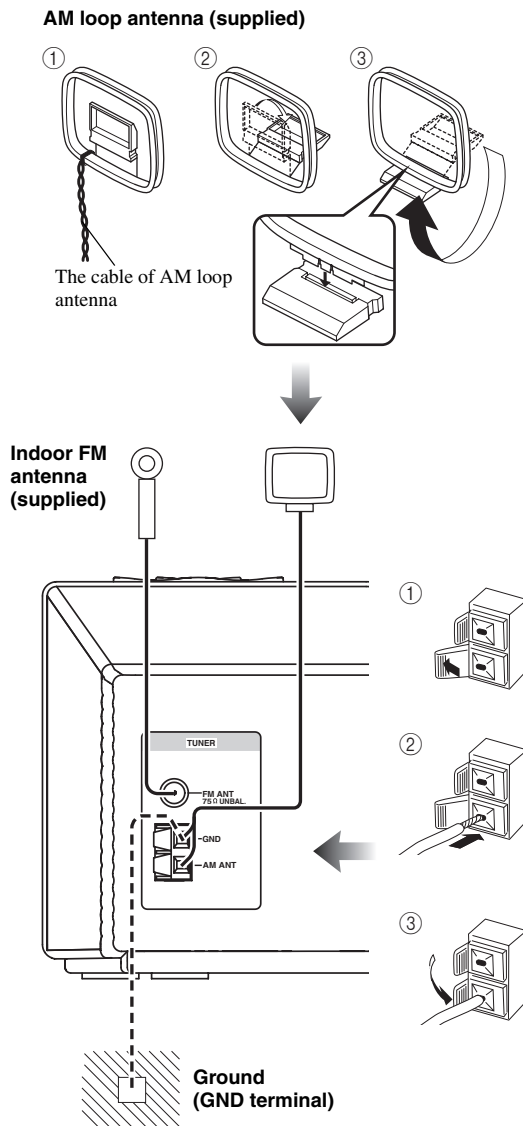
### Connect your portable audio device.



For operations of the portable audio device, refer to the instruction manual of the device.

# Listening to FM and AM radio stations

## Connecting antennas

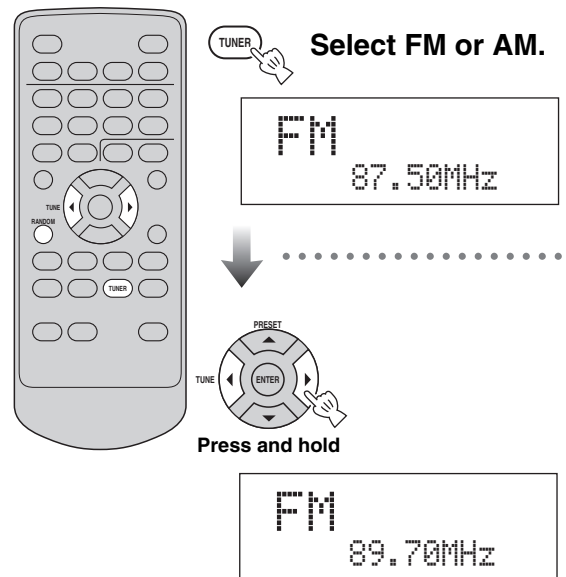


The wire of the AM loop antenna does not have any polarity and you can connect either end of the wire to AM or GND terminal.

### About grounding

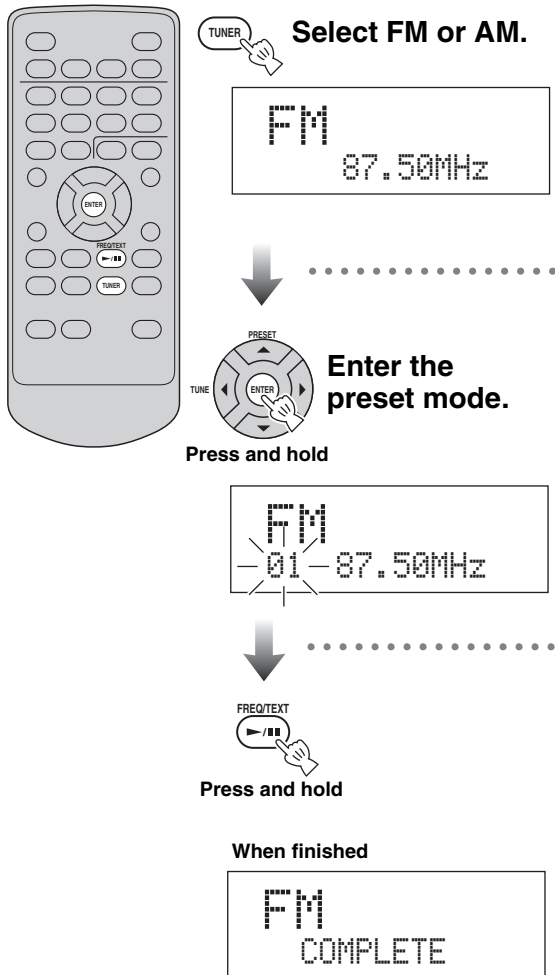
For the maximum safety and minimum interference, connect the antenna GND terminal to a good earth ground. A good earth ground is a metal stake driven into the moist earth.

## Tuning radio stations



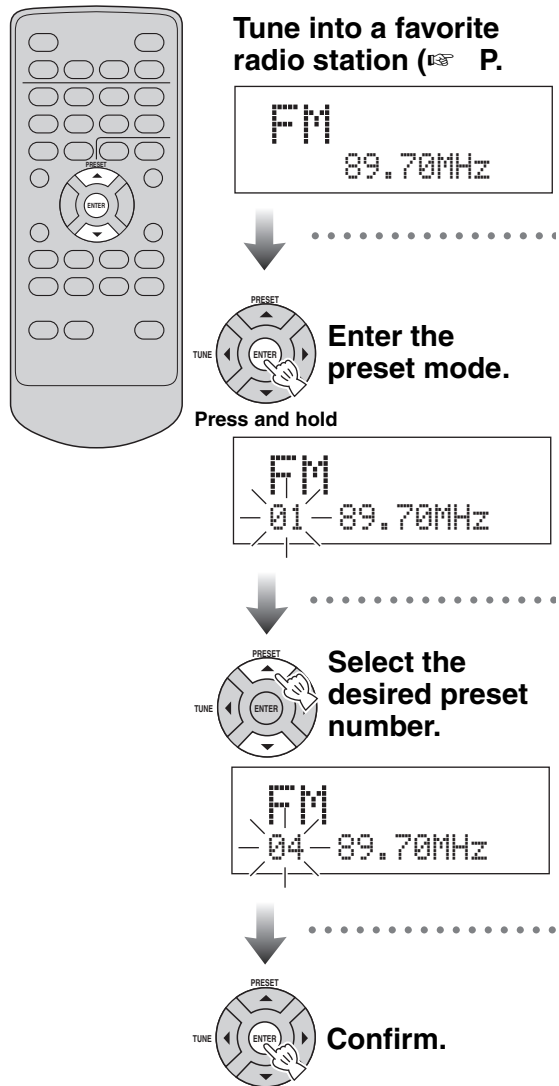
- While listening to the AM radio station, rotate the antenna head to find the best angle for reception.
- You can also tune radio stations manually by pressing **TUNE** repeatedly.
- To increase the quality of the FM sound under the weak radio wave, press and hold **RANDOM** on the remote control to change the FM radio wave reception mode of this unit to the monaural mode.

## Presetting radio stations automatically (Auto preset)



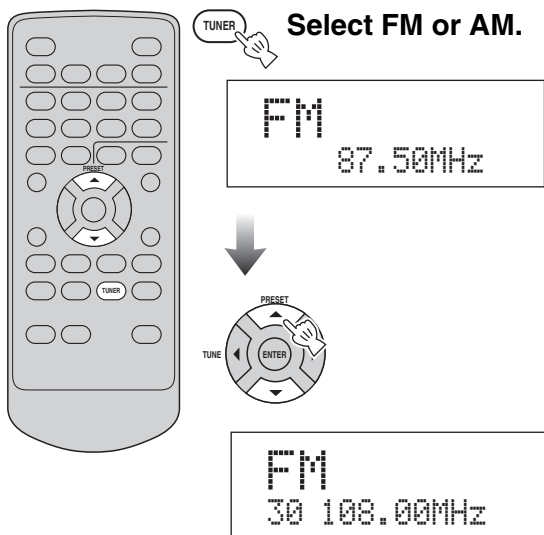
- You can delete a preset station by pressing **■/▲**.
- You can delete all the preset stations by pressing and holding **■/▲** for 3 seconds or longer.

## Presetting radio stations manually (Manual preset)

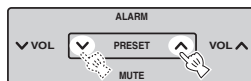


- You can preset up to 30 FM stations and 20 AM stations.
- You can delete a preset station by pressing **■/▲**.
- You can delete all the preset stations by pressing and holding **■/▲** for 3 seconds or longer.

## Selecting preset radio stations (Preset tuning)

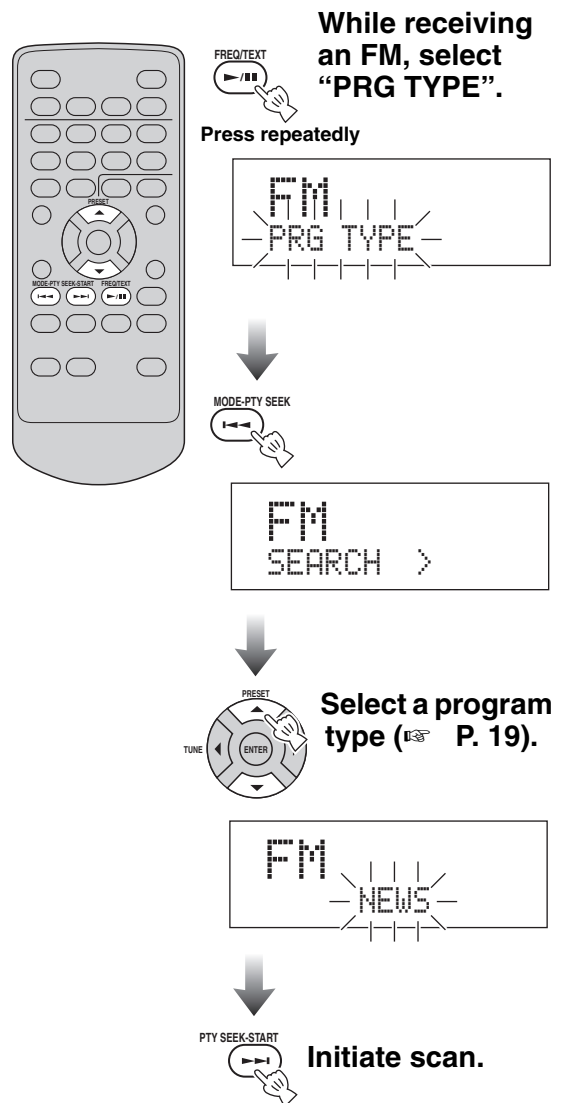


### On the top panel



## Receiving Radio Data System stations

### Selecting stations by program type

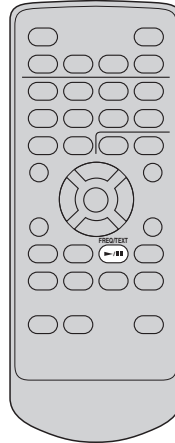


To cancel program type seek, press **PTY SEEK START** again.

## ■ Available program types

Program type	Descriptions
NEWS	News
AFFAIRS	Current affairs
INFO	General information
SPORT	Sports
EDUCATE	Education
DRAMA	Drama
CULTURE	Cultures
SCIENCE	Science
VARIED	Varied Speech
POP M	Pop Music
ROCK M	Rock Music
EASY M	Easy Listening
LIGHT M	Light Classical
CLASSICS	Serious Classical
OTHER M	Other Music
WEATHER	Weather & Meteorology
FINANCE	Finance
CHILDREN	Children's Program
SOCIAL	Social Affairs
RELIGION	Religion
PHONE IN	Phone In
TRAVEL	Travel & Touring
LEISURE	Leisure & Hobby
JAZZ	Jazz Music
COUNTRY	Country Music
NATION M	National Music
OLDIES	Other Music
FOLK M	Folk Music
DOCUMENT	Documentary
TEST	Alarm Test
ALARM	Alarm-Alarm!

## ■ Switching the information display of Radio Data System



Press repeatedly

### Station name



FM  
PRG SERVICE

### Program type



FM  
PRG TYPE

### Text information related to the station



FM  
RADIO TEXT

### Current time



FM  
CLOCK TIME

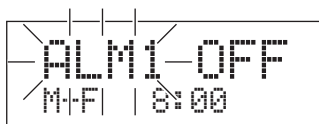
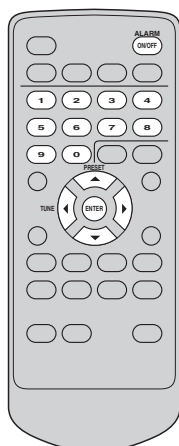
### Original display

#### Note

If the signal transmission of the Radio Data System station is too weak, this unit may not be able to receive Radio Data System information completely. In particular, RT (Radio Text) information uses a lot of bandwidth, so it may be less available compared to other types of information.

# Using the timer functions

## ■ Setting the wake-up timer



### Adjust the alarm settings.



Moves through the alarm parameters.

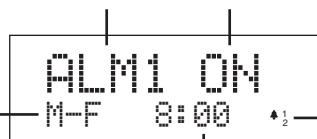


Changes the alarm parameters.

① Select alarm 1/2.

② Select on/off.

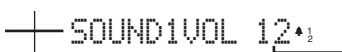
③ Select the repetition.  
M-F: Monday to Friday  
Daily: Every day  
Once: Only once



Shows the active alarm.

④ Set the alarm time.

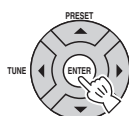
⑤ Select alarm sound from  
CD, FM, AM, USB, SOUND1 (beep),  
and SOUND2 (beep).



⑥ Adjust the volume.



You can also use the numeric buttons to enter date and time.



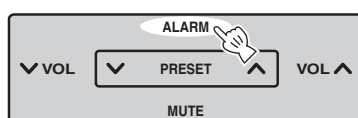
Once you have set the alarm, you can turn on/off the alarm using **ALARM ON/OFF**.

## ■ To stop the alarm



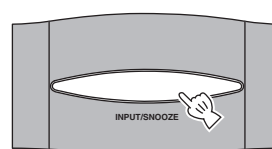
or

*On the top panel*



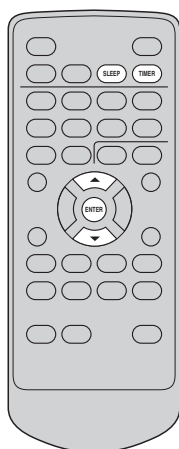
## ■ Using the snooze function

*On the top panel*



Playback resumes  
after 5 minutes.

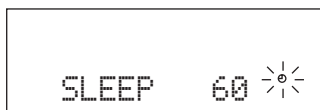




## ■ Setting the sleep timer

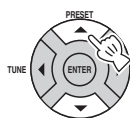
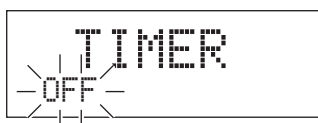


Press repeatedly.

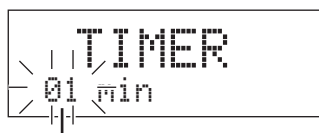


SLEEP OFF  
↓  
SLEEP 30  
↓  
SLEEP 60  
↓  
SLEEP 90  
↓  
SLEEP 120  
↓  
Normal display  
(sleep off)

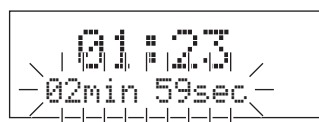
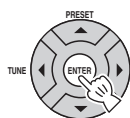
## ■ Setting the countdown timer



Adjust the countdown timer setting.



Set the countdown time  
(1 to 60 minutes).



Countdown starts.



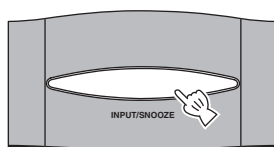
To cancel the countdown timer, press **TIMER** twice to select "OFF".

## ■ To stop the alarm



or

On the top panel



# Troubleshooting

In case of a problem with this unit, check the following list first. If you cannot solve your problem with the suggested solutions or if your problem is not listed below, turn off and unplug this unit, and consult the nearest authorized Yamaha dealer or service center.

## General

Problem	Cause	Solution
<b>Power turns on but immediately shuts off.</b>	The power cable may be connected improperly.	Make sure the power cable is plugged into the outlet firmly (P. 6).
	This unit may have received a strong electrical shock such as lightning or excessive static electricity.	Set this unit to the standby mode, and disconnect the power cable. Wait about 30 seconds, reconnect the power cable, and turn on this unit.
<b>The speakers make no sound.</b>	The volume may be set to minimum level.	Adjust the volume level (P. 8).
	The mute function may be on.	Cancel the mute function (P. 8).
	The input source may be incorrect.	Select the correct input source (P. 8).
	The disc loaded into this unit may not be compatible.	Use a disc supported by this unit (P. 25).
<b>Sound suddenly turns off.</b>	The sleep timer (P. 21) may be set.	Turn on this unit and play the source again.
<b>This unit does not operate properly.</b>	This unit may have received a strong electrical shock such as lightning or excessive static electricity, or power supply may have dropped.	Set this unit to the standby mode, and disconnect the power cable. Wait about 30 seconds, connect the power cable, and turn on this unit.
<b>A digital or high-frequency equipment produces noises.</b>	This unit may be placed close to the digital or high-frequency equipment.	Place this unit away from the equipment.
<b>The clock setting has been cleared.</b>	The power to this unit may have been lost for more than a week.	Plug the power cable into the outlet firmly, and set the clock again (P. 6).

## Disc playback

Problem	Cause	Solution
<b>Some button operations do not work.</b>	The disc loaded into this unit may not be compatible.	Use a disc supported by this unit (P. 25).
<b>Playback does not start immediately after pressing ►/II.</b>	The disc may be dirty.	Wipe the disc clean.
	The disc loaded into this unit may not be compatible.	Use a disc supported by this unit (P. 25).
	When this unit was moved from a cold to warm place, condensation may have formed on the disc reading lens.	Wait for an hour or two, and try again.
<b>The disc is ejected.</b>	The disc loaded into this unit may not be compatible.	Use a disc supported by this unit (P. 25).
<b>“No Disc” appears in the display.</b>	The disc may not be set in the disc slot properly.	Try inserting the disc again.

## MP3/WMA file playback

Problem	Cause	Solution
<b>MP3/WMA file in the USB device is not played.</b>	The USB device is not recognized.	Set this unit to the standby mode, and turn it on again (P. 6).
		Disconnect the device while this unit is in the standby mode. Then connect the device again and turn on this unit (P. 6).
		Connect an AC adapter if supplied with the device.
	If the solutions above do not resolve the problem, the USB device is not playable on this unit.	Try another USB device.

## Radio reception

### FM/AM

Problem	Cause	Solution
<b>The preset selecting function (P. 16) does not work.</b>	The preset (memory) may have been erased.	Preset radio stations again (P. 17).
<b>The preset station settings have been cleared.</b>	The power to this unit may have been lost more than a week.	Plug the power cable into the outlet firmly, and preset the stations again (P. 6).

### FM

Problem	Cause	Solution
<b>Too much noise during stereo broadcast.</b>	The FM antenna may be connected improperly.	Make sure the FM antenna is connected properly (P. 16).
	The radio station you selected may be far from your area, or the radio wave reception is weak in your area.	Try manual tuning to improve the signal quality (P. 17) or use a multi-channel outdoor antenna.
<b>Even with an outdoor antenna, radio wave reception is weak. (Sound is distorted.)</b>	Multipath reflection or other radio interferences may have occurred.	Change the height, direction, or placement of the antenna.

### AM

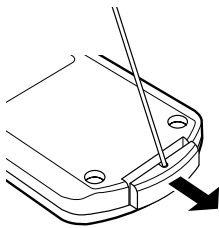
Problem	Cause	Solution
<b>Too much noise during broadcast.</b>	The noise may be caused by atmospheric electricity, lightning, fluorescent lights, motors, or thermostat electric devices.	Connect an outdoor antenna and establish a better grounding to decrease the noise. However, it is difficult to eliminate these types of noise.
	If this unit is placed near a TV, the noise may be generated especially in the evening.	Place this unit away from a TV.
<b>The auto tuning function (P. 18) does not work.</b>	The AM loop antenna may be connected improperly.	Make sure the AM loop antenna is connected properly (P. 16).

## Remote control

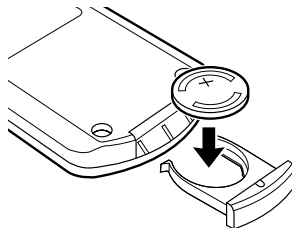
Problem	Cause	Solution
<b>The remote control does not work properly.</b>	The remote control may be operated outside its operation range.	For information on the remote control operation range, refer to “Using the remote control” (P. 5).
	The remote control sensor on this unit may be exposed to direct sunlight or lighting (inverted fluorescent lamps).	Change the lighting or orientation of this unit.
	The battery may be worn out.	Replace the battery with new one (see below).
	There are obstacles between the sensor of this unit and the remote control.	Remove the obstacles.

### ■ Replacing the battery in the remote control

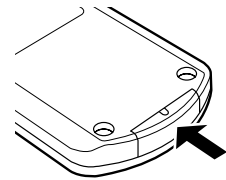
Change the battery when the operation range of the remote control decreases.



Use a straight pin to remove the cover.



Replace the battery with a new CR2025 battery.



Close the cover.

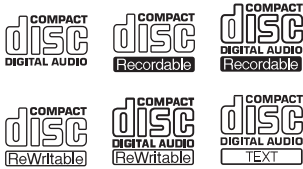
### Notes

- Insert the battery according to the polarity markings (+ and –).
- If the batteries run out, immediately remove them from the remote control to prevent an explosion or acid leak.
- If a battery starts leaking, dispose of it immediately. Be careful not to let the leaking battery acid touch your skin or clothing.
- Before inserting new batteries, wipe the compartment clean.
- Dispose of batteries according to your regional regulations.

# Notes on discs

## Disc information

This unit is designed for use with audio CD, CD-R, and CD-RW. Also, this unit can play back 8 cm (3 inch) compact discs.



This unit can play back discs bearing any of the logo marks above. A disc logo mark is printed on the disc and the disc jacket.

### Note

Do not load any other type of disc into this unit. Doing so may damage this unit.

**This unit can play back the following data discs (For MP3 and WMA files, the parenthetic words represent the compatible sampling rate and bit rate):**

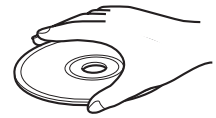
- MP3 files, recorded on CD-R/RW (fs 44.1, 48 kHz/ 32, 64, 96, 128, 192, 256, or 320 kbps and variable bit encoded MP3 files (CBR and VBR))
- WMA files, recorded on CD-R/RW (fs 44.1 kHz/ 192 kbps or less and variable bit encoded WMA files (CBR and VBR))
- ISO 9660 for CD-R/RW

### Notes

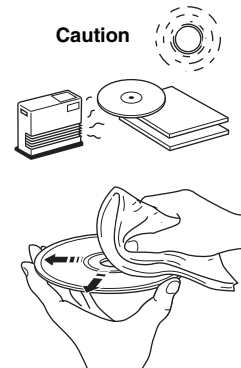
- CD-R/RW cannot be played back unless finalized.
- Some discs cannot be played back depending on the disc characteristics or recording conditions.
- Do not use any non-standard shaped discs such as a heart-shaped disc.
- Do not use discs with many scratches on their surface.
- Copyright-protected WMA files cannot be played back on this unit.
- The sampling rate 48 kHz is downsampled to 44.1 kHz for playback.

## Handling a disc

- Do not touch the surface of the disc. Hold a disc by its edge (and the center hole).
- Do not leave a disc in the disc tray when not playing.
- Do not use a pencil or pointed marker to write on the disc.
- Do not put a tape, seal, glue, or other attachments on a disc.
- Do not use a protective cover to prevent scratches.
- Do not use a disc that has a printable surface using a commercially available label printer.
- Do not expose a disc under direct sunlight, high temperature, high humidity, or a lot of dust.



### Caution



- If a disc becomes dirty, wipe it with a clean, dry cloth from the center out to the edge. Do not use record cleaner or paint thinner.
- To avoid malfunction, do not use a commercially available lens cleaner.
- Do not insert more than one disc into the disc slot at one time. This can cause damages to both this unit and the discs.
- Do not use an 8 cm-disc adapter.
- Do not insert any foreign objects into the disc slot.
- Do not insert a cracked, warped, or glued disc.

# Glossary

## ■ MP3 (MPEG-1 Audio Layer-3)

One of the audio compression methods used by MPEG. It employs the irreversible compression method, which achieves a high compression rate by thinning out the data of hardly audible part to human ears. It is said to be capable of compressing the data quantity by about 1/11 (128 kbps) while maintaining a similar audio quality to music CD.

## ■ WMA (Windows Media Audio)

An audio compression method developed by Microsoft Corporation. It employs the irreversible compression method, which achieves a high compression rate by thinning out the data of hardly audible part to human ears. It is said to be capable of compressing the data quantity by about 1/22 (64 kbps) while maintaining a similar audio quality to music CD.

## ■ Sampling frequency

The number of sampling (process for digitalizing analog signals) per second. In principle, the higher the sampling rate, the wider the frequency range that can be played back, and the higher the quantized bit rate, the finer the sound that can be reproduced.

## ■ PCM (Pulse Code Modulation)

A signal that is changed to digital format without compression. A CD is recorded with 16-bit sound at 44.1 kHz.

## ■ Track

A CD can be divided into a number of segments (tracks). Each division is called a track number.

# Specifications

## ■ PLAYER SECTION

### Playback system

- CD, CD-R/RW

### Laser

- Type..... GaAlAs
- Wave length..... 780 nm
- Emission duration..... continuous
- Laser output..... max. 44.6  $\mu$ W\*

\*This output is the value measured at a distance of about 200 mm (7.9 in) from the objective lens surface on the Optical Pick-up Block.

## ■ AMPLIFIER SECTION

- Minimum RMS output power per channel..... 10 W + 10 W
- Input sensitivity/Impedance  
PORTABLE..... 300 mV/47 k $\Omega$
- Output level/Impedance  
PHONES (volume max)..... 1 V/32  $\Omega$

## ■ TUNER SECTION

### FM

- Tuning range  
U.S.A. and Canada models..... 87.5 to 107.9 MHz  
Other models ..... 87.50 to 108.00 MHz

### AM

- Tuning Range  
U.S.A. and Canada models..... 530 to 1710 kHz  
Other models ..... 522 to 1629 kHz

## ■ GENERAL

- Power Supply  
U.S.A. and Canada models..... AC 120 V, 60 Hz  
Other models ..... AC 100 to 240 V, 50/60 Hz
- Power consumption ..... 20 W
- Standby Power consumption ..... 1.0 W or less
- Dimensions (W x H x D)..... 300 x 141.5 x 200 mm  
(11-13/16 x 5-9/16 x 7-7/8 in)
- Weight..... 2.7 kg (5.95 lbs)

Specifications are subject to change without notice.

## Limited Guarantee for European Economic Area (EEA) and Switzerland

Thank you for having chosen a Yamaha product. In the unlikely event that your Yamaha product needs guarantee service, please contact the dealer from whom it was purchased. If you experience any difficulty, please contact Yamaha representative office in your country. You can find full details on our website (<http://www.yamaha-hifi.com/> or <http://www.yamaha-uk.com/> for U.K. resident).

The product is guaranteed to be free from defects in workmanship or materials for a period of two years from the date of the original purchase. Yamaha undertakes, subject to the conditions listed below, to have the faulty product or any part(s) repaired, or replaced at Yamaha's discretion, without any charge for parts or labour. Yamaha reserves the right to replace a product with that of a similar kind and/or value and condition, where a model has been discontinued or is considered uneconomic to repair.

### Conditions

1. The original invoice or sales receipt (showing date of purchase, product code and dealer's name) MUST accompany the defective product, along with a statement detailing the fault. In the absence of this clear proof of purchase, Yamaha reserves the right to refuse to provide free of charge service and the product may be returned at the customer's expense.
2. The product MUST have been purchased from an AUTHORISED Yamaha dealer within the European Economic Area (EEA) or Switzerland.
3. The product must not have been the subject of any modifications or alterations, unless authorised in writing by Yamaha.
4. The following are excluded from this guarantee:
  - a. Periodic maintenance and repair or replacement of parts due to normal wear and tear.
  - b. Damage resulting from:
    - (1) Repairs performed by the customer himself or by an unauthorised third party.
    - (2) Inadequate packaging or mishandling, when the product is in transit from the customer. Please note that it is the customer's responsibility to ensure the product is adequately packaged when returning the product for repair.
    - (3) Misuse, including but not limited to (a) failure to use the product for its normal purpose or in accordance with Yamaha's instructions on the proper use, maintenance and storage, and (b) installation or use of the product in a manner inconsistent with the technical or safety standards in force in the country where it is used.
    - (4) Accidents, lightning, water, fire, improper ventilation, battery leakage or any cause beyond Yamaha's control.
    - (5) Defects of the system into which this product is incorporated and/or incompatibility with third party products.
    - (6) Use of a product imported into the EEA and/or Switzerland, not by Yamaha, where that product does not conform to the technical or safety standards of the country of use and/or to the standard specification of a product sold by Yamaha in the EEA and/or Switzerland.
    - (7) Non AV (Audio Visual) related products.  
(Products subject to "Yamaha AV Guarantee Statement" are defined in our website at <http://www.yamaha-hifi.com/> or <http://www.yamaha-uk.com/> for U.K. resident.)
5. Where the guarantee differs between the country of purchase and the country of use of the product, the guarantee of the country of use shall apply.
6. Yamaha may not be held responsible for any losses or damages, whether direct, consequential or otherwise, save for the repair or replacement of the product.
7. Please backup any custom settings or data, as Yamaha may not be held responsible for any alteration or loss to such settings or data.
8. This guarantee does not affect the consumer's statutory rights under applicable national laws in force or the consumer's rights against the dealer arising from their sales/purchase contract.



© 2007 YAMAHA CORPORATION All rights reserved.

YAMAHA ELECTRONICS CORPORATION, USA 6660 ORANGETHORPE AVE., BUENA PARK, CALIF. 90620, U.S.A.  
YAMAHA CANADA MUSIC LTD. 135 MILNER AVE., SCARBOROUGH, ONTARIO M1S 3R1, CANADA  
YAMAHA ELECTRONIK EUROPA G.m.b.H. SIEMENSSTR. 22-34, 25462 RELLINGEN BEI HAMBURG, GERMANY  
YAMAHA ELECTRONIQUE FRANCE S.A. RUE AMBROISE CROIZAT BP70 CROISSY-BEAUBOURG 77312 MARNE-LA-VALLEE CEDEX02, FRANCE  
YAMAHA ELECTRONICS (UK) LTD. YAMAHA HOUSE, 200 RICKMANSWORTH ROAD WATFORD, HERTS WD18 7GQ, ENGLAND  
YAMAHA SCANDINAVIA A.B. J A WETTERGRENS GATA 1, BOX 30053, 400 43 VÄSTRA FRÖLUNDA, SWEDEN  
YAMAHA MUSIC AUSTRALIA PTY, LTD. 17-33 MARKET ST., SOUTH MELBOURNE, 3205 VIC., AUSTRALIA

YAMAHA CORPORATION  
Printed in China C CQX1A1286Z