# YAMAHA

Made for
**iPod** **iPhone**

## DESKTOP AUDIO SYSTEM

# *TSX-112*

## OWNER'S MANUAL

# 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 - away from direct sunlight, heat sources, vibration, dust, moisture and cold. For proper ventilation, allow the following minimum clearances.
Top: 15 cm (6 in)
Rear: 10 cm (4 in)
Sides: 10 cm (4 in)
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 cable 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 ⏻ to set the system to off, 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 system off, then leave this unit alone for cooling.
20 Install this unit near the wall 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. When you dispose of batteries, follow your regional regulations.
22 Excessive sound pressure from earphones and headphones can cause hearing loss.

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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 ⏻. In this state, this unit is designed to consume a very small quantity of power.

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

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**CAUTION**
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

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There is a chance that placing this unit too close to a CRT-based (Braun tube) TV set might impair picture color. Should this happen, move this unit away from the TV set.

# CONTENTS

▶ **Features**
   – iPod/iPhone, CD, USB device, radio and external device using AUX are playable.
   – Providing comfortable wake-up by the music set with your preferred volume with alarm function.
     Music, beep sound, or both can be set as alarm sound.
   – Storing/calling your favorite radio stations (up to 30 DAB and 30 FM stations).
   – Bass and treble can be controlled depending on your favorite.

▶ **About this manual**
   • "iPod" described in this manual may also refer to "iPhone".
   • This manual describes how to operate this unit using buttons on the unit. Some of these operations are also available using the remote control.
   • The symbol "☞" with page number(s) indicates the corresponding reference page(s).
   • Notes contain important information about safety and operating instructions. ⋰☀⋱ indicates a tip for your operation.
   • 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.
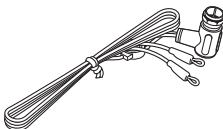
▶ **Supplied accessories**

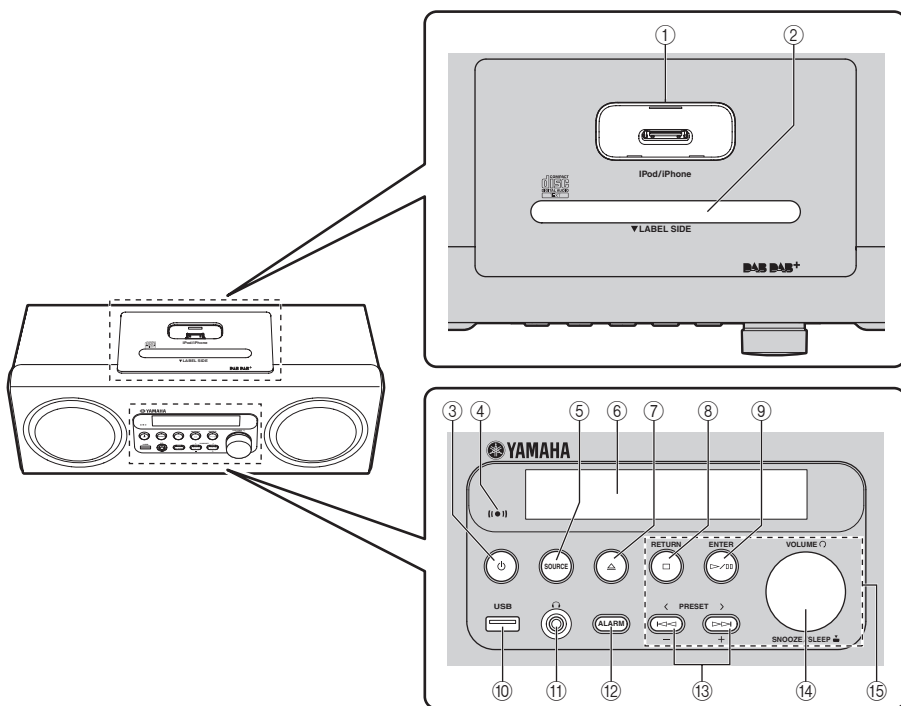| Remote control | DAB/FM antenna | Dock cover |
|---|---|---|



(With CR2032 battery)

# NAMES OF PARTS AND THEIR FUNCTIONS

## ▶ Top panel, front panel



① **iPod dock**: Set an iPod.

② **Disc slot** (☞ P. 8)

③ ⏻: Press to turn the system on/off.

④ **Alarm indicator**: Lights up when the alarm function is activated and flashes while setting the alarm. (☞ P. 15)

⑤ **SOURCE**: Change sources.

⑥ **Front panel display**: Displays various information. Time is displayed when the system is off.
If you set the system to power save mode, all the information on the front panel display is turned off, and reduce power consumption.
For more information how to set power save mode, refer to "Rear panel (Connecting antenna)". (☞ P. 4)

⑦ ⏏: Ejecting the CD.

⑧ **RETURN**: Returns to the previous item while setting.

⑨ **ENTER**: Confirms the setting.

⑩ **USB port** (☞ P. 8)
☀
When a USB device is connected to the USB port, the device is charged. During system off/power save mode, the device is not charged.

⑪ 🎧 (Headphones jack): Connect headphones.

⑫ **ALARM**: Alarm on/off (☞ P. 16)

⑬ **PRESET** (During receiving radios): Select the preset radio station. (☞ P. 14)
**−/+**: Changes the setting (☞ P. 15)

⑭ **SNOOZE/SLEEP** (☞ P. 16, 18)

⑮ **Audio control buttons**: Skip, search backward/forward, play/pause, stop, volume control

## ▶ Front panel display
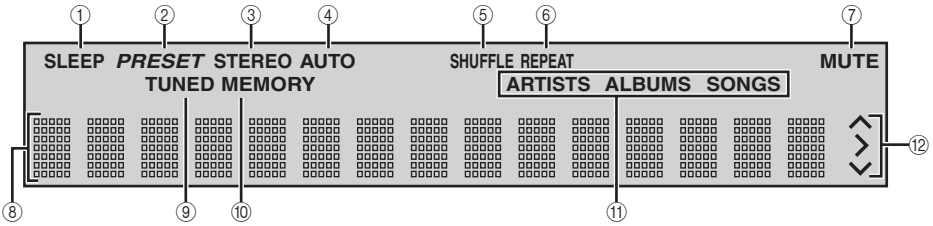


① **SLEEP indicator**: Lights up when the sleep timer is on. (☞ P. 18)

② **PRESET indicator**: Lights up when you preset radio stations. (☞ P. 14)

③ **STEREO indicator**: Lights up when this unit is receiving a strong signal from an DAB/FM stereo broadcast.

④ **AUTO indicator**: Lights up when this unit is in the Automatic Tuning mode. (☞ P. 13)

⑤ **SHUFFLE indicator**: Lights up when you set your iPod/CD/USB to shuffle play. (☞ P. 17)

⑥ **REPEAT indicator**: Lights up when you set your iPod/CD/USB to repeat play. (☞ P. 17)

⑦ **MUTE indicator**: Lights up when the sound is muted.

⑧ **Multi information display**: Shows the various information.

⑨ **TUNED indicator**: Lights up when this unit is tuned into a station. (☞ P. 13)

⑩ **MEMORY indicator**: Flashes when searching for a radio station by automatic preset tuning. Lights up when you preset radio stations automatically or manually. (☞ P. 14)

⑪ **Multi information indicators**: Indicate the music information currently displayed on Multi information display. (☞ P. 9)

⑫ **Operation indicators**: Show the available menu buttons for the currently selected OPTION menu item.

**3** *En*

## ▶ **Rear panel (Connecting antenna)**
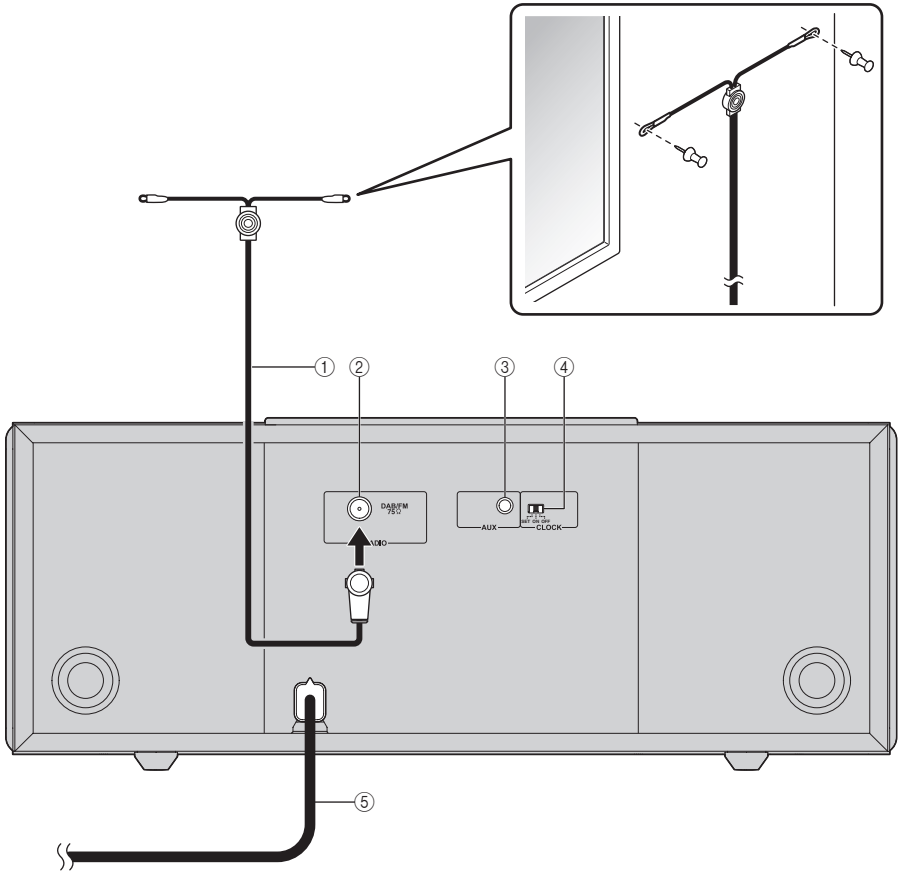


① **DAB/FM antenna** (supplied)

② **DAB/FM antenna terminal**: Connect the supplied DAB/FM antenna.

③ **AUX**: Connect an external device. (☞ P. 18)

④ **CLOCK**

SET: Adjusts the clock. (☞ P. 7)

ON: Displays the current time when system is off.

OFF: Switches the system to power save mode when system is off.
All the information on the front panel display is turned off in this mode. This can reduce power consumption.

☼
Even in system off/power save mode, the alarm function is available.
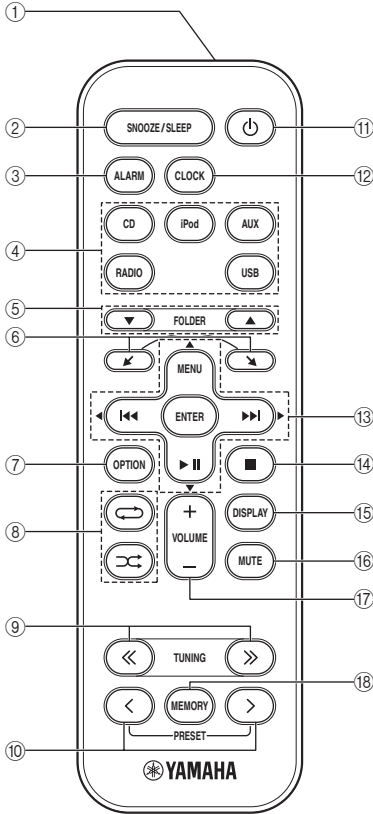
⑤ **Power cable**: Connect to a wall outlet.

*Notes*

• The antenna should be stretched out.
• If DAB/FM reception is poor, change the height, direction, or placement of the antenna.

## ▶ Remote control



① **Infrared signal transmitter**

② **SNOOZE/SLEEP**: Snooze/sleep setting.
(☞ P. 16, 18)
Press and hold this button, then press Cursor ▼/▲
→ **ENTER** to set the sleep function.

③ **ALARM**: Alarm on/off (☞ P. 16)

④ **Source buttons**: Change sources. When listening
to the radio, press **RADIO** to switch between the
DAB and FM bands.

⑤ **FOLDER** (during data CD/USB playback): Change
folder.

⑥ ↖, ↘ : Scrolls through items on the iPod's screen.

⑦ **OPTION**: Displays the option menu. (☞ P. 19)

⑧ ⤨ (Shuffle), ⟲ (Repeat) (☞ P. 17)

⑨ **TUNING** (during receiving radio): Tuning radio
(☞ P. 13)

⑩ **PRESET** (during receiving radio): Select the preset
radio station (☞ P. 14)

⑪ ⏻ : System on/off

⑫ **CLOCK**: Displays the time (☞ P. 7)

⑬ ⏮, ⏭ (during playback): Skip backward and
forward/press and hold to rewind and fast-forward
**MENU**: Returns to the upper level in the iPod menu.
▶ ⅠⅠ: Play/pause
▲/▼/◄/► (During using the option menu): Changes
the setting
**ENTER**
(During using the iPod): Select group/start playback
(During using the option menu): Confirms the setting

⑭ ■ : Stop playback.

⑮ **DISPLAY**: Switches the information shown on the
front panel. (☞ P. 9)

⑯ **MUTE**: Mute/resume the sound.

⑰ **VOLUME**: Volume control

⑱ **MEMORY**: Memories preset radio stations. (☞ P. 14)

## ▶ Using the remote control

Be sure to read "BATTERY CAUTIONS"
(☞ P. 26) before using the battery.



**Within 6 m
(20')**

30° 30°

Battery insulation
sheet: Remove
before using.
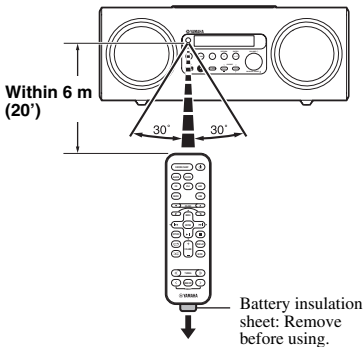
## ▶ Replacing the battery in the
remote control

While pushing the release tab in direction Ⓐ,
slide out the battery holder in direction Ⓑ.
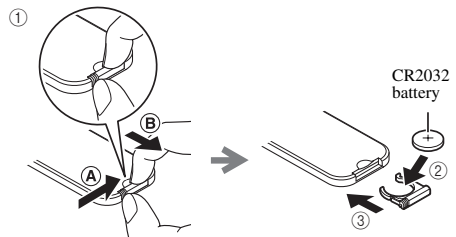


CR2032
battery

# CONNECTING AN iPod

Dock Adaptor

IPod/iPhone

▼LABEL SIDE
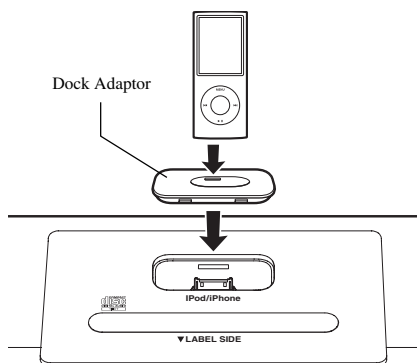
## Set your iPod in the iPod dock.

☼

An iPod is charged when set in the iPod dock. During power save mode, the iPod is not charged.

### *Notes*

- To secure the connection, attach a compatible Dock Adapter supplied with the iPod or an iPod Universal Dock Adapter (sold separately), and remove the protective case covering from your iPod.
- If you do not use an adapter or if the adapter is not compatible, the connection could be loose or poor, which could cause damage or malfunctions. For details on dock adaptor information, please visit official Apple's website.
- If an iPod in protective case is connected by force, the connector may be damaged. Remove the protective case before connection.
- Attach the dock cover to the iPod dock whenever you are not using it.

# ADJUSTING THE CLOCK

**1**

SET ON OFF
CLOCK
←

**Rear panel**

**2**

〈 PRESET 〉

ENTER

−    +

**Front panel**

**1** Set **CLOCK** to SET.

**2** Set the time.
Press **− / +** to set the hour and then press **ENTER**.
Set the minutes in the same way.

**☼**
• While setting the clock, press **RETURN** to return to the previous setting.
• Press **SNOOZE/SLEEP** on the front panel to switch between the 12 and 24 hour clock display.

**3**

SET ON OFF
CLOCK
→

**Rear panel**

**3** Set **CLOCK** to ON to complete.
At the time ON is set, it will be 0 second and time count starts.

**☼**
• The time is displayed for a certain period when you press **CLOCK** on the remote control.
• You can switch the system to power save mode by setting **CLOCK** on the rear panel to OFF.

*Note*
The time settings are lost about 5 minutes after unplugging the unit.

# LISTENING TO iPod

For details on compatible iPod models, refer to "SPECIFICATIONS" (☞ P. 26).
For details on how to operate the remote control, refer to "Remote control" (☞ P. 5).

**1**

**2**
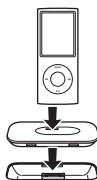
SOURCE

**1** Set your iPod in the iPod dock.

**2** Set **SOURCE** to iPod.

**3** Play the iPod.
Playback operations are available with the remote control, iPod and this unit.

**☼**
• You can remove the iPod whenever you want.
• When music in the iPod is played back, this unit turns the system on automatically and plays back the iPod even if the unit is system off.

**☼**
This unit automatically turns off the system if the iPod is not connected and no operation is performed for 60 minutes.

**7** *En*

# LISTENING TO CD AND USB DEVICE

▶ **Listening to CD**
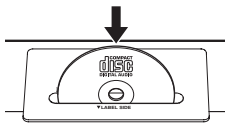


**1** Set **SOURCE** to CD.

**2** Insert a CD.

Playback starts automatically. Playback operations are available with the remote control and this unit.


Playback for Data Disc starts in alphanumeric order of files.

*Note*

Insert the CD with the label side facing toward the front of the unit.

▶ **Listening to USB device**
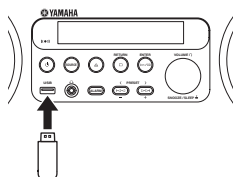


**1** Set **SOURCE** to USB.

**2** Connect a USB device.

Playback starts automatically. Playback operations are available with the remote control and this unit.


• You can remove your USB device whenever you want.
• Playback starts in order by date and time of creation.


• If ■ button is pressed during playback, next time playback starts from the beginning of the track you listened to last time. If ■ button is pressed again while playback is stopped, next time playback starts from the first track of the CD/USB device.
• For details on playable discs and files, refer to "NOTES ON DISCS AND USB DEVICES" (☞ P. 25).
• This unit automatically turns off the system 60 minutes after CD/USB device playback is stopped/paused.

▶ **Skipping folder for data CD/USB device**
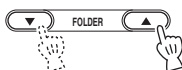


**Remote control**

Select the folder with **FOLDER**.

Skip to the first file in the previous/next folder.
The folder name is displayed on the front panel display for a certain period.
ROOT is displayed for the root folder when the directory contains playable files.

# SWITCHING THE DISPLAY

You can switch the playback information shown on the front panel display. Some special characters may not be shown properly.

*Press repeatedly*

DISPLAY

**Remote control**

Press **DISPLAY** repeatedly during playback.

### iPod
Song number and elapsed time (default setting)
↓
Song number and remaining time
↓
Song name
↓
Artist name
↓
Album name
↓
Back to the default setting

#### Note
This function is available for iPod classic, iPod nano (2nd generation and later), iPod touch and iPhone. However, even with these models, this function may not be available depending on the software version of your iPod.

### CD/USB
Track/file number and elapsed time of the current song (default setting)
↓
Track number and remaining time of the current song[*1]
↓
Total time of the disc[*1]
↓
Remaining time of the disc[*1]
↓
File name[*2]
↓
Track name[*3]
↓
Artist name[*3]
↓
Album name[*3]
↓
Back to the default setting

[*1] Only for Audio CDs
[*2] Only for MP3/WMA files
[*3] Only when the selected track has information

# LISTENING TO DAB STATIONS

DAB (Digital Audio Broadcasting) uses digital signals for clearer sound and more stable reception compared to analog signals.
This unit can also receive DAB+ (an upgraded version of DAB) that allows for more stations using MPEG-4 audio codec (AAC+), which has a more efficient transmission method.

## *Preparing the DAB tuning*

Before tuning into DAB stations, an initial scan must be performed. The initial scan starts automatically when you select DAB as the input source for the first time.
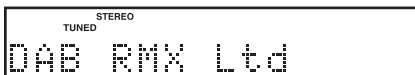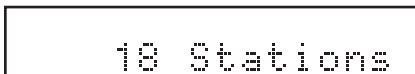
| | |
|---|---|
| **1** | **1** Set **SOURCE** to DAB. |
| SOURCE | ☼<br>You can also perform the initial scan manually by INIT SCAN (☞ P. 19, 20). |
| **2** | **2** The initial scan starts.<br>"Scanning" and the percentage of the progress of scan appear on the front panel display. |
| Scanning 77% | |
| **3** | **3** Scan is completed.<br>The number of receivable DAB stations appears on the front panel display for a while, then the unit airs the first station as stored in station order. |
| 18 Stations<br>↓<br>STEREO<br>TUNED<br>DAB RMX Ltd | **Note**<br>This unit can receive Band III (174 - 240 MHz) only. |

## *Tuning DAB stations*
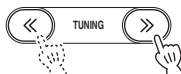
| | | |
|---|---|---|
| **1** | **2** | **1** Set **SOURCE** to DAB. |
| SOURCE | ⟪ TUNING ⟫<br>**Remote control** | **2** Select a DAB station with **TUNING**. |

```
         STEREO
   TUNED
DAB  RMX  Ltd          ⌷
```

Secondary indicator

Some stations have sub (secondary) stations. The secondary indicator lights up when a secondary audio station is selected.

*Note*

When the unit cannot receive the DAB signal, "Off Air" is displayed on the front panel display.

# *Presetting DAB stations*

You can store your favorite DAB stations with the preset function. The PRESET indicator lights up on the front panel display (☞ P. 3).

**1**

SOURCE

**2**
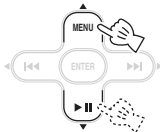
MEMORY

Remote control

**1** Tune into a favorite DAB station.

**2** Press **MEMORY**.

**3**

▲
MENU
|◀◀  ENTER  ▶▶|
▶ ll
▼

Remote control

**4**

ENTER

Remote control

**3** Select the preset number you want to store to.

**4** Press **ENTER** to complete.

☼

You can preset up to 30 DAB stations.
• To cancel the preset while choosing a preset number, press **MEMORY** again.
• You can delete a preset station by pressing **OPTION** → Cursor ▲/▼ → **ENTER** to select PRESET DELETE.

# *Selecting preset DAB stations (Preset tuning)*
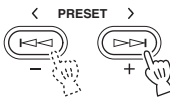
〈  PRESET  〉
|◀◀            ▶▶|
–              +

Select the preset radio station in DAB mode.

# *DAB station information*

While listening the DAB station.

*Press repeatedly*

DISPLAY

**Remote control**

Press **DISPLAY** repeatedly.

**STATION LABEL**
Displays the name of the current DAB station and preset number.
↓
**DLS (Dynamic Label Segment)**
Displays information about the current DAB station, such as the name of the song, artist and speaker, etc. This data is continuously updated by the DAB broadcaster, thus changing often with every new song or program.
Other data, such as news, weather, and sports headlines, may be broadcast as well.
↓
**ENSEMBLE LABEL**
Displays the name of the current ensemble.
↓
**CHANNEL / FREQ**
Displays the channel label and frequency of the current DAB station.
↓
**SIGNAL QUALITY**
Displays signal reception quality (from 0 (none) to 100 (best)) of current DAB tuning.
↓
**AUDIO FORMAT**
Displays the audio format of the current station, and whether DRC (Dynamic Range Control)* is activated. "(DRC ON)" is displayed when DRC information is transmitted by DAB station.
* Some DAB broadcasters transmit a wide dynamic range enabling high quality sound, accompanied by DRC information. Use this feature to compress the dynamic range of the DAB broadcast. This is especially useful when you listen to a DAB station in a noisy environment or at low volume at night.
↓
**Back to the STATION LABEL**

Note
Not all DAB broadcasters transmit station information.

# *DAB frequency information*

This unit can receive Band III only.

| Frequency | Channel label | Frequency | Channel label |
|---|---|---|---|
| 174.928 MHz | 5A | 208.064 MHz | 9D |
| 176.640 MHz | 5B | 209.936 MHz | 10A |
| 178.352 MHz | 5C | 211.648 MHz | 10B |
| 180.064 MHz | 5D | 213.360 MHz | 10C |
| 181.936 MHz | 6A | 215.072 MHz | 10D |
| 183.648 MHz | 6B | 216.928 MHz | 11A |
| 185.360 MHz | 6C | 218.640 MHz | 11B |
| 187.072 MHz | 6D | 220.352 MHz | 11C |
| 188.928 MHz | 7A | 222.064 MHz | 11D |
| 190.640 MHz | 7B | 223.936 MHz | 12A |
| 192.352 MHz | 7C | 225.648 MHz | 12B |
| 194.064 MHz | 7D | 227.360 MHz | 12C |
| 195.936 MHz | 8A | 229.072 MHz | 12D |
| 197.648 MHz | 8B | 230.784 MHz | 13A |
| 199.360 MHz | 8C | 232.496 MHz | 13B |
| 201.072 MHz | 8D | 234.208 MHz | 13C |
| 202.928 MHz | 9A | 235.776 MHz | 13D |
| 204.640 MHz | 9B | 237.488 MHz | 13E |
| 206.352 MHz | 9C | 239.200 MHz | 13F |

# LISTENING TO FM STATIONS

## *Tuning FM stations*

**1**



SOURCE

**2**
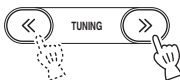


《 TUNING 》

**Remote control**

**1** Set **SOURCE** to FM.

**2** For automatic tuning, press and hold **TUNING**.
For manual tuning, press **TUNING** repeatedly.

*Note*

If you tune to a station manually, the sound is monaural.

## *Presetting FM stations*

You can store your favorite 30 FM stations with the preset function.

### ▶ **Automatic preset tuning**

| 1 | 2 *Press and hold* | 3 |
|---|---|---|
| SOURCE | MEMORY | ENTER |
| | **Remote control** | **Remote control** |

**1** Set **SOURCE** to FM.

**2** Press and hold **MEMORY** for more than 2 seconds.

☀️
To cancel the preset, press **MEMORY** again before step 3 is completed.
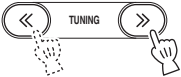
**3** Press **ENTER**.
The automatic preset starts.
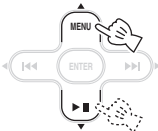
Note
When you perform the automatic preset, all stored stations are cleared and the new stations are stored.

### ▶ **Manual preset tuning**

| 1 | 2 |
|---|---|
| ≪ TUNING ≫ | MEMORY |
| **Remote control** | **Remote control** |

**1** Tune into a favorite FM station.

**2** Press **MEMORY**.

| 3 | 4 |
|---|---|
| MENU / ENTER / ▶∥ | ENTER |
| **Remote control** | **Remote control** |

**3** Select the preset number you want to store to.

☀️
To cancel the preset, press **MEMORY** again.

**4** Press **ENTER** to complete.

## *Selecting preset FM stations*

| 1 | 2 |
|---|---|
| SOURCE | ‹ PRESET › |
| | ⊲⊲ ⊳⊳ |
| | − + |

**1** Set **SOURCE** to FM.

**2** Select the preset FM station with **PRESET**.

☀️
You can delete a preset station by pressing **OPTION** → Cursor ▲/▼ → **ENTER** on the remote control to select **PRESET DELETE**.

# USING ALARM FUNCTION

## Alarm features

This unit can play back your favorite music and/or beep sound at the set time. Alarm features on this unit are described below.

• **This unit has 3 alarm types combining music and beep sound:**

| | |
|---|---|
| **SRC+BEEP** | Selected audio source and the beep sound are played at the set time. Source playback begins to fade in 3 minutes before the set time and the volume gradually increases to the set volume. Then, at the set time, the beep sound is activated. This mode is recommended for a comfortable wake-up. |
| **SOURCE** | Selected source plays at the set time. Fade-in volume gradually increases to the set volume. |
| **BEEP** | Only beep sound is played back at the set time. |

• **Alarm source played back at the set time can be selected from iPod, audio CD, data CD, USB device, and radio. Depending on the source, followings also can be selected:**

| SOURCE | Selectable item | Function |
|---|---|---|
| **iPod** | Resume play | The track you listened to last time is resumed. |
| **Audio CD/Data CD/ USB** | Track | The Selected track is played back repeatedly. |
| | Resume play | The track you listened to last time is played back. |
| **DAB/FM** | Preset | The selected preset radio station is played. |
| | Resume play | The radio station you listened to last time is played. |

• **Snooze function is also available.**

## Alarm setting

### ▶ Setting the alarm time and sound



**1** Press and hold **ALARM** for more than 2 seconds.
Alarm indicator (((●))) and setting items flash.

**2** Set the alarm time.
Press **– / +** to set the hour and then press **ENTER**.
Set the minutes in the same way.

**3** Set the alarm type.
Select from **SRC+BEEP**, **SOURCE** or **BEEP**. For the details on alarm type, refer to "Alarm features" (☞ P. 15).

**4** Select the source (as required).
When you select SRC+BEEP or SOURCE, select source. A source other than AUX can be selected.

**15** *En*

**5**

**(As required)**

‹ PRESET ›
⇥ ⊲⊲  ⊳⊳ ⇥
− +

➡

ENTER
⊳/□□
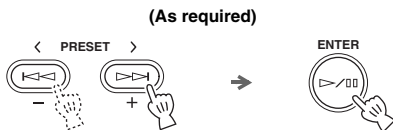
**5** Select a track or radio station (as required).

When the source is CD/USB/DAB/FM, select a track or radio station for alarm.

☀
• To select the last song or radio station you listened to, select "---".
• When the iPod is set as source, the track you listened to last time is resumed.

**6**

‹ PRESET ›
⇥ ⊲⊲  ⊳⊳ ⇥
− +

➡

ENTER
⊳/□□

**6** Set the alarm volume.

To have the alarm sound at the last volume level you used, select "---". Once you have set the alarm volume, the alarm is set and the alarm indicator ( (( ● )) ) lights up.

☀
• While setting the alarm, press **RETURN** to return to the previous setting.
• To cancel without setting the alarm, press **ALARM** before step 6 is completed.

▶ **Switching the alarm on/off**

ALARM

Switch on/off the alarm function.

☀
When the alarm is on, the alarm indicator ( (( ● )) ) lights up and alarm time is displayed for a while.

## *Operations during playing back alarm sound*

At the set time, alarm sound plays back. During playback, operations below are available.

*Note*

If source cannot be played back at the alarm time (ex. iPod is not set), beep sound is played back.

▶ **Using the snooze function**

VOLUME ⌒

SNOOZE / SLEEP ⏻

Press **SNOOZE/SLEEP**.

The alarm sound stops and resumes after 5 minutes.

☀
• When SRC+BEEP is set, press **SNOOZE/SLEEP** to stop the beep sound. press **SNOOZE/SLEEP** again to stop the source. The beep sounds 5 minutes after the source stopped. The source fades in 1 minute before the beep sounds.
• When the snooze function is activated, alarm indicator flashes.

### ▶ Stopping the alarm
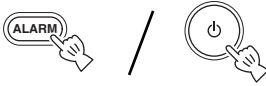
Press **ALARM** or ⏻.

☼

- Unless you stop the alarm, the alarm stops after 60 minutes automatically.
- The alarm function turns off when you stop the alarm, but settings such as the alarm time are saved for convenient use next time. To set the alarm again, press **ALARM**.

# SHUFFLE/REPEAT PLAYBACK

**Shuffle playback**

*Press repeatedly*

**Remote control**

| CD/USB | iPod |
|---|---|
| → **SHUFFLE FOLDER** (Shuffle all songs in the folder) | → **SHUFFLE SONGS** (Shuffle songs) |
| → **SHUFFLE ALL** (All shuffle) | → **SHUFFLE ALBUMS** (Shuffle albums) |
| → **SHUFFLE OFF** (Shuffle Off) | → **SHUFFLE OFF** (Shuffle Off) |

**Repeat playback**

*Press repeatedly*

**Remote control**

| CD/USB | iPod |
|---|---|
| → **REPEAT ONE** (Single repeat) | → **REPEAT ONE** (Single repeat) |
| → **REPEAT FOLDER** (Repeat all songs in the folder) | → **REPEAT ALL** (All repeat) |
| → **REPEAT ALL** (All repeat) | → **REPEAT OFF** (Repeat Off) |
| → **REPEAT OFF** (Repeat Off) | |

☼

- You cannot set SHUFFLE ALBUMS when you use an iPod touch or iPhone.
- When source contains folders, folder shuffle/repeat can be selected.
- For some iPod models, the shuffle and repeat functions may not be displayed or supported.
- When iPod is played back, the setting order of shuffle and repeat depends on the iPod model.

# LISTENING TO EXTERNAL SOURCE

**1**

**2**

AUX

**SOURCE**

**Rear Panel**
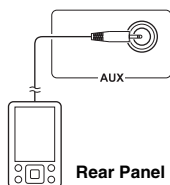
**1** Connect your portable audio device to AUX using a commercially available 3.5 mm (1/8 in) mini plug cable.

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

**2** Set **SOURCE** to AUX.

**3** Start playback on the connected portable audio device.

**4** Adjust the volume level of the unit and the portable audio device.

# USING SLEEP FUNCTION

You can set the time to turn off the system automatically.

**1** *Press and hold*

VOLUME ⌒

SNOOZE / SLEEP ▲

**2**

‹ **PRESET** ›
− +

**ENTER**
▷/⫿⫿
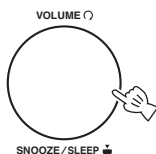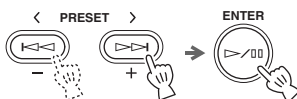
**1** Press and hold **SNOOZE/ SLEEP** for more than 2 seconds.

**2** Select the sleep time from 30, 60, 90,120 and SLEEP OFF. When the time is set, the sleep function is set to on, and the SLEEP indicator lights up.

To exit without changing the current setting, press **SNOOZE/SLEEP**.

# USING OPTION MENU

The option menu appears on the front panel display by pressing **OPTION** on the remote control. You can set various useful functions with option menu.

| Option menu | Parameter or control range | Reference page |
|---|---|---|
| **PRESET DELETE** | (Displays only when the input source is set to DAB/FM.) | 14, 20 |
| **DAB CLEAR***[1] | (Displays only when the input source is set to DAB.) | 20 |
| **INIT SCAN** | (Displays only when the input source is set to DAB.) | 20 |
| **TUNE AID** | (Displays only when the input source is set to DAB.) | 20 |
| **DIMMER** | DIMMER OFF (brightest)/DIMMER 1/DIMMER 2 (darkest) | This page |
| **TREBLE** | -10 dB to +10 dB | This page |
| **BASS** | -10 dB to +10 dB | This page |
| **AUTO POWER OFF** | TIME OFF/ TIME 8H/ TIME 4H<br>AUTO POWER OFF sets the system to system off or power save mode whenever no operation is performed for a preset amount of time. | This page |

*1 When the input source is set to DAB, and if the unit cannot receive any DAB stations, these setup menus do not appear.

## ▶ Operation procedure

For DAB CLEAR, INIT SCAN and TUNE AID, see page 20.

| 1 | 2 | 3 |
|---|---|---|
| OPTION | MENU / ENTER / ►II | ENTER |
| **Remote control** | **Remote control** | **Remote control** |

**1** Press **OPTION**.
**2** Select desired option menu with ▲/▼.
**3** Confirm with **ENTER**.

| 4 | 5 | 6 |
|---|---|---|
| MENU / ENTER / ►II | ENTER | OPTION |
| **Remote control** | **Remote control** | **Remote control** |
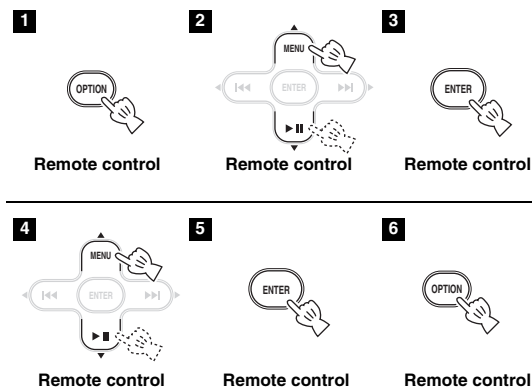
**4** Change the settings with ▲/▼.
**5** Complete the setting with **ENTER**.
To set additional items, repeat steps 2 to 5.
**6** Exit option menu with **OPTION**.

☀️

To cancel without changing the settings, press **OPTION** before step 5 is completed.

## ▶ Setting dimmer/tone

DIMMER: Changes the brightness of the front panel display.
TREBLE*: Adjusts the high frequency response.
BASS*: Adjusts the low frequency response.
* Also effective when you are using headphones.

# *Using DAB option menu*

## ▶ Performing DAB CLEAR and INIT SCAN
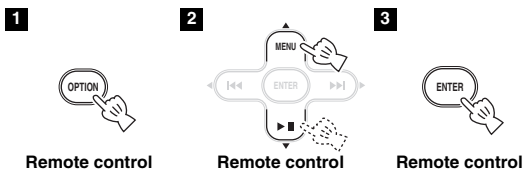
**1** Press **OPTION**.

**2** Select desired option menu with ▲/▼.

**3** Confirm with **ENTER**.

**4** "Press ENTER" appears.
    Press **ENTER** to perform*.

**5** Exit option menu with **OPTION**.

DAB CLEAR: Deletes all DAB station information and preset settings stored in the unit. After DAB CLEAR is complete, the unit moves to the INIT SCAN functions automatically. Note that once DAB CLEAR is performed, the deleted information and preset settings cannot be restored.

INIT SCAN: Performs the initial scan manually. Each time you perform INIT SCAN, the newly received stations are added to the previously received stations.

* After performing INIT SCAN, the unit airs the first station as stored in station.

## ▶ Using TUNE AID
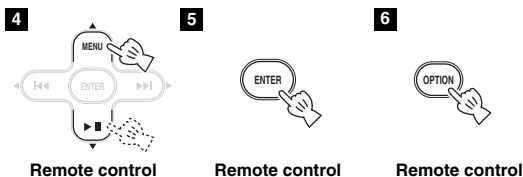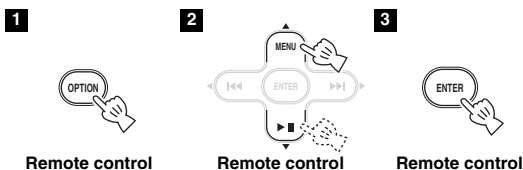
**1** Press **OPTION**.

**2** Select TUNE AID.

**3** Confirm with **ENTER**.

**4** Switch the channel label.

**5** Exit TUNE AID.

**6** Exit option menu with **OPTION**.

TUNE AID: Measures reception strength of the received DAB signal (from 0 (none) to 100 (best)). Adjust the DAB/FM antenna to find the best position to receive the DAB signal.

☀
To check the frequency corresponding to the channel label, refer to "DAB frequency information" on page 13.

# TROUBLESHOOTING

In case of a problem with the 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 the unit, and consult the nearest authorized Yamaha dealer or service center.

## *General*

| Problem | Cause | Solution |
|---|---|---|
| **The speakers make no sound.** | The volume may be set to the minimum level. | Adjust the volume level. |
| | The source may be incorrect. | Select the correct source. |
| | Headphones are connected. | Remove the headphones. |
| **Sound is cracked/distorted or there is abnormal noise.** | Input source volume is excessive, or volume of this unit is excessive (especially Bass). | Adjust volume with **VOLUME**, or adjust Bass with the option menu (☞ P. 19). |
| **The unit does not operate properly.** **The system turns on but immediately shuts off.** | The unit may have received a strong electrical shock such as lightning or excessive static electricity, or power supply may have dropped. | Set the system to off, and disconnect the power cable. Wait about 30 seconds, reconnect the power cable, and turn on the system. |
| **A digital or high-frequency equipment produces noises.** | The unit may be placed too close to the digital or high-frequency equipment. | Place the unit farther away from the equipment. |
| **The clock setting has been cleared.** | The unit is left more than five minutes after you disconnect the power cable from the wall outlet. | Plug the power cable into the wall outlet firmly, and set the clock again (☞ P. 7). |
| **When it is time for the alarm to sound, only a beep is heard; no music is heard.** | The alarm source you have selected is not connected or inserted. | If you have selected iPod or USB, make sure the device is connected. If you have selected CD, make sure the CD is inserted. |
| | The alarm type is set to BEEP. | Set the alarm type to SRC+BEEP or SOURCE (☞ P. 15). |
| **Clock flashes and the unit cannot be operated.** | **CLOCK** on the rear panel is set to SET, and this unit is in clock setting mode. | Set **CLOCK** on the rear panel to ON (☞ P. 7). |
| **The system is suddenly turned off.** | The automatic system off function turned the unit off. | This unit automatically turns off the system 60 minutes after USB device or CD playback is stopped. |
| | The sleep (☞ P. 18) may be set. | Turn on the system and play the source again. |
| | The AUTO POWER OFF function is triggered. | Setting AUTO POWER OFF to TIME OFF enables to play continuously (☞ P. 19). |

## DAB reception

| Problem | Cause | Solution |
|---------|-------|----------|
| **Cannot tune into any DAB stations.** | The initial scan operations were not performed. | Perform the initial scan operations (☞ P. 10). |
| | There is no DAB coverage in your area. | Check with your dealer or WorldDMB Online at "http://www.worlddab.org" for a listing of the DAB coverage in your area. |
| | The DAB signals are too weak. | Change the height, direction, or placement of the antenna. |
| **The initial scan operations are not successful and "Not found" appears on the DAB information display.** | The DAB signals are too weak. | |
| | There is no DAB coverage in your area. | Check with your dealer or WorldDMB Online at "http://www.worlddab.org" for a listing of the DAB coverage in your area. |
| **The DAB station reception is weak.** | The DAB signals are too weak. | Change the height, direction, or placement of the antenna. |
| **There is noise interference (e.g. hiss, crackle or jitter).** | The antenna needs to be repositioned. | |
| | The DAB signals are too weak. | |
| **The DAB station information does not appear or is inaccurate.** | The DAB station may be temporarily out of service, or the DAB station information is not provided by the DAB broadcaster. | Contact the DAB broadcaster. |

## FM reception

| Problem | Cause | Solution |
|---------|-------|----------|
| **Too much noise during stereo broadcast.** | The antenna may be connected improperly. | Make sure the antenna is connected properly (☞ P. 4). |
| | 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. 13) or use a multi-channel outdoor antenna. |
| **Even with an outdoor antenna, radio wave reception is weak. (Sound is distorted.)** | Multipath reflection or other radio interferences may have occurred. | Change the height, direction, or placement of the antenna. |

## *iPod*

**Note**

In case of a transmission error without a status message appearing in the front panel of this unit, check the connection to your iPod (☞ P. 6).

| Status message | Cause | Remedy |
|---|---|---|
| `iPod Connecting`<br>`iPod Charging` | This unit is in the middle of recognizing the connection with your iPod. | If the message continues to appear in the front panel display and playback does not start, connect the iPod again (☞ P. 6). |
| `Unknown iPod` | There is a problem with the signal path from your iPod to this unit. | Connect the iPod again (☞ P. 6). |
| | The iPod being used is not supported by this unit. | Only iPod classic, iPod nano (2nd generation and later), iPod touch and iPhone are supported. |
| `iPod` | This unit has recognized your iPod; however, it cannot obtain information such as elapsed time. | |
| `iPod Unplugged` | Your iPod was removed from the iPod dock. | Station your iPod back in the iPod dock (☞ P. 6). |
| `Over Current` | The iPod being used is not supported by this unit. | Disconnect the iPod and then turn the system off and on again. Then connect supported iPod again (☞ P. 26). |
| | The iPod is connected at an angle. | |

| Problem | Cause | Solution |
|---|---|---|
| **No sound** | The iPod is not set in the iPod dock firmly. | Set the iPod firmly. |
| | Headphones are connected. | Remove the headphones. |
| | The iPod software version has not been updated. | Download the latest iTunes software to update the iPod software version to the latest. |
| **The iPod does not charge up.** | The iPod is set in the iPod dock improperly. | Remove the iPod from the unit, and then set it in the iPod dock again (☞ P. 6). |
| | The system is set to power save mode (☞ P. 2). | Set **CLOCK** to ON on the rear panel to cancel power save mode (☞ P. 4). |
| **Suddenly the music being played back is canceled and another track starts playing without performing any operation.** | The iPod's Shake to Shuffle function is turned on. | Turn off the Shake to Shuffle function in the iPod's settings. |

## *Remote control*

| Problem | Cause | Solution |
|---|---|---|
| **The remote control does not work properly.** | 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 the unit may be exposed to direct sunlight or lighting (inverted fluorescent lamps). | Change the lighting or orientation of the unit. |
| | The battery may be worn out. | Replace the battery with a new one. |
| | There are obstacles between the sensor of the unit and the remote control. | Remove the obstacles. |

## Disc playback

| Problem | Cause | Solution |
|---|---|---|
| **Disc cannot be inserted.** | The system is set to power save mode (☞ P. 2). | Set **CLOCK** to ON on the rear panel to cancel power save mode (☞ P. 4). |
| **Some button operations do not work.** | The disc loaded into the unit may not be compatible. | Use a disc supported by the unit (☞ P. 25). |
| **Playback does not start immediately after pressing ►❙❙.** | The disc may be dirty. | Wipe the disc clean. |
| | The disc loaded into the unit may not be compatible. | Use a disc supported by the unit (☞ P. 25). |
| | If the unit was moved from a cold to warm place, condensation may have formed on the disc reading lens. | Wait for an hour or two until the unit adjusts to the room temperature, and try again. |
| **"No Disc" or "Unknown Disc" is displayed in the front panel display after loading a disc.** | The disc loaded into the unit may not be compatible. | Use a disc supported by the unit (☞ P. 25). |
| | The disc may be dirty. | Wipe the disc clean. |
| | The disc is loaded back to front. | Insert a disc facing the label side to near side. |
| | The disc does not contain playable files. | Use a disc contains playable files (☞ P. 25). |
| | An error occurs in the unit. | Unload the disc with ▲. |

## USB device playback

**Note**

In case of a transmission error without a status message appearing in the front panel of this unit, check the connection to the USB device (☞ P. 8).

| Status message | Cause | Remedy |
|---|---|---|
| USB Unplugged | The USB device is not connected firmly. | Connect the USB device again (☞ P. 8). |
| Unknown USB | The connected USB device is not playable on this unit. | Connect playable USB device (☞ P. 25). |
| | The file name is too long. | The file name should be no more than 250 characters. |
| Over Current | The USB device is connected at an angle. | Disconnect the USB device and then turn the system off and on again. Then connect playable USB device again (☞ P. 25). |
| No Files | The USB device does not contain playable files. | Use a USB device contains playable files (☞ P. 25). |
| | An incompatible USB device is connected to the unit. | Turn off the system and reconnect the USB device to the unit. If it does not resolve the problem, the USB device is not playable on the unit. |
| USB Time Out | The number of files/folders exceeds the limit. | Reduce the number of files/folders; refer to the limitations noted in this manual (☞ P. 25). |

| Problem | Cause | Solution |
|---|---|---|
| **MP3/WMA file in the USB device does not play.** | The USB device is not recognized. | Turn off the system and reconnect the USB device to the unit. |
| | | Connect an AC adapter if supplied with the device. |
| | | Format the USB device and copy the files again. |
| | | If the solutions above do not resolve the problem, the USB device is not playable on the unit. |

# NOTES ON DISCS AND USB DEVICES

## Disc information

This unit is designed for use with audio CD, CD-R[*1], and CD-RW[*1] with the logos followings.

[*1] ISO 9660

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.

### Notes

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

## Handling a disc

• Do not touch the surface of the disc. Hold a disc by its edge (and the center hole).
• Do not use a pencil or pointed marker to write on the disc.
• Do not put a tape, seal, glue, etc., on a disc.
• Do not use a protective cover to prevent scratches.
• Do not load more than one disc into this unit at one time. This can cause damage to both this unit and the discs.
• Do not insert any foreign objects into the disc slot.
• Do not load a cracked, warped, or glued disc.
• Do not expose a disc to direct sunlight, high temperature, high humidity, or a lot of dust.

**Caution**
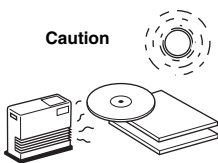
• If a disc becomes dirty, wipe it with a clean, dry cloth from the center out to the edge. Do not use record cleaner or paint thinner.
• To avoid malfunction, do not use a commercially available lens cleaner.
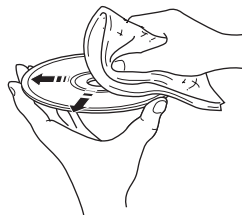
## USB device information

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, an 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.
• USB devices that use encryption cannot be used.

## About MP3 or WMA files

### Notes

• The unit can play back:

| File | Bitrate (kbps) | Sampling frequency (kHz) |
|------|----------------|--------------------------|
| MP3 | 8 - 320[*2] | 16 - 48 |
| WMA | 16 - 320[*2] | 22.05 - 48 |

[*2] Both constant and variable bitrates are supported.

• The maximum numbers of files/folders that can be displayed on the unit are as follows.

| | Data CD | USB |
|---|---------|-----|
| Maximum total number of file[*3] | 512 | 9999 |
| Maximum folder number[*3] | 255 | 999 |
| Maximum file number per folder | 511 | 255 |

[*3] The root is counted as one of the folders.

• Copyright-protected files cannot be played back.

# SPECIFICATIONS

## ▶ PLAYER SECTION

### iPod (Digital connection)
• Made for ...... iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod nano (2nd, 3rd, 4th, 5th, and 6th generation)
iPhone 4
iPhone 3GS
iPhone 3G
iPhone

### CD
• Media ......................................................... CD, CD-R/RW
• Audio format ................................. Audio CD, MP3, WMA

### Laser
• Type ............................. Semiconductor laser GaAs/GaAlAs
• Wave length ........................................................ 790 nm
• Output Power ........................................................ 7 mW

### USB
• Audio format .................................................... MP3, WMA

### AUX
• Input connector ........... 3.5 mm (1/8 in) STEREO mini Jack

## ▶ AMPLIFIER SECTION
• Maximum output power ................................. 15 W + 15 W
(6 Ω 1 kHz, 10% THD)
• Headphones ............................ 3.5 mm STEREO mini Jack
(Adaptive Impedance 16 to 32 Ω)

## ▶ TUNER SECTION
• Tuning range
FM ................................................. 87.50 to 108.00 MHz
DAB/DAB+.......................... 174 to 240 MHz (Band III)

## ▶ GENERAL
• Power Supply........................................... AC 230 V, 50 Hz
• Power consumption .................................................... 23 W
• System off consumption ........................................... 2.7 W
• Power save consumption ........................................... 0.2 W
• Dimensions (W × H × D) ... W457 × H180.5 × D177.5 mm
(W18 × H7 1/8 × D7)
• Weight .................................................... 5.1 kg (11.2 lbs.)

Specifications are subject to change without notice.

## 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.

## iPod, iPhone
"Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

## BATTERY CAUTIONS
• If the battery grows old, the effective operation range of the remote control decreases considerably. If this happens, replace the battery with new one as soon as possible.
• Exhausted battery may leak. If the battery have leaked, dispose of it immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing a new battery.
• Keep the battery away from children. If the battery is accidentally swallowed, contact your doctor immediately.
• When not planning to use the remote control for long periods of time, remove the battery from the remote control.
• Do not charge or disassemble the supplied battery.

**DAB**
*Digital Audio Broadcasting*

**DAB+**
*Digital Audio Broadcasting*

This unit supports DAB/DAB+ tuning.

# Information for Users on Collection and Disposal of Old Equipment and Used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.
For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

**[Information on Disposal in other Countries outside the European Union]**
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.
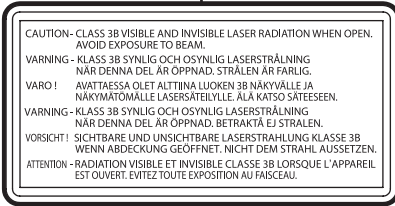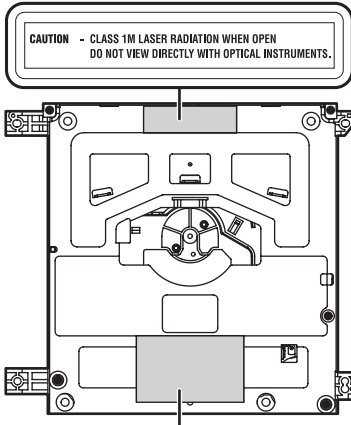
**Pb**

**Note for the battery symbol (bottom two symbol examples):**
This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.
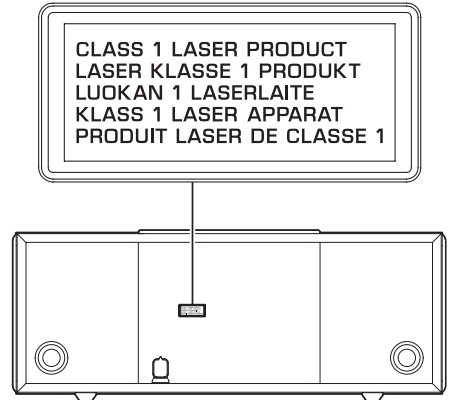
**CAUTION**
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
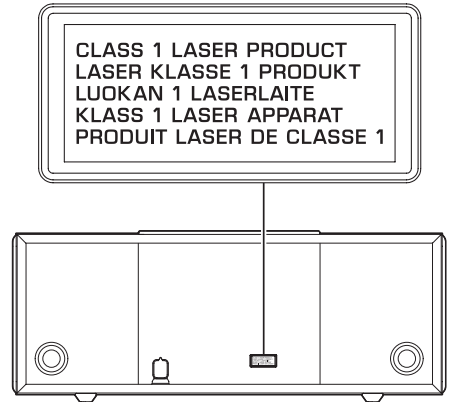
CAUTION – CLASS 1M LASER RADIATION WHEN OPEN
DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

CAUTION – CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM.

VARNING – KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING
NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.

VARO ! – AVATTAESSA OLET ALTTIINA LUOKEN 3B NÄKYVÄLLE JA
NÄKYMÄTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING – KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING
NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTÄ EJ STRALEN.

VORSICHT ! – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 3B
WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ATTENTION – RADIATION VISIBLE ET INVISIBLE CLASSE 3B LORSQUE L'APPAREIL
EST OUVERT. EVITEZ TOUTE EXPOSITION AU FAISCEAU.

• The name plate is located on the back of the unit.

Australia model

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
PRODUIT LASER DE CLASSE 1

U.K. model

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
PRODUIT LASER DE CLASSE 1

## ■ 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.

AVEEA11102A

**Important Notice: Guarantee Information for customers in EEA\* and Switzerland**   **English**

For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country.   * EEA: European Economic Area

# http://europe.yamaha.com/warranty/

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