

ON 1230 (ON 1230, ONS 1230)





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CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature

accompanying the product.

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

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product shall not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.



CAUTION: This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service center.

Use of controls, adjustments or the performance of procedures other than those specified herein may

result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure.

CAUTION concerning the Power cord

Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. When installing the product. ensure that the plug is easily accessible.









This device is equipped with a portable battery or accumulator.

Safety way to remove the battery or the battery from the equipment: Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION: The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, shall be placed on the apparatus.



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Unique Features

USB Direct Recording

Records music to your USB device.

AUTO DJ

Blends the end of one song into the beginning of another for seamless playback.

USB

Listens to music from your USB device.

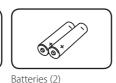
Radio

Listens to the radio.

Accesories

Please check and identify the supplied accessories.





Remote Control (1)







AM Antenna (1)

Playable file Requirement

MP3/WMA music file requirement

MP3/WMA file compatibility with this unit is limited as follows.

- Sampling frequency: within 32 to 48 kHz (MP3), within 32 to 48 kHz (WMA)
- Bit rate: within 32 to 320 kbps (MP3), 40 to 192 kbps (WMA)
- Maximum files: Under 999
- File extensions : ".mp3"/".wma"
- CD-ROM file format: ISO 9660/JOLIET
- We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
- You have to set the disc format option to [Mastered] in order to make the discs compatible with the LG players when formatting rewritable discs. When setting the option to Live File System, you cannot use it on LG players. (Mastered/Live File System: Disc format system for Windows Vista)









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Compatible USB Devices

- MP3 Player: Flash type MP3 player.
- USB Flash Drive : Devices that support USB2.0 or USB1.1.
- The USB function of this unit does not support all USB devices.

USB device requirement

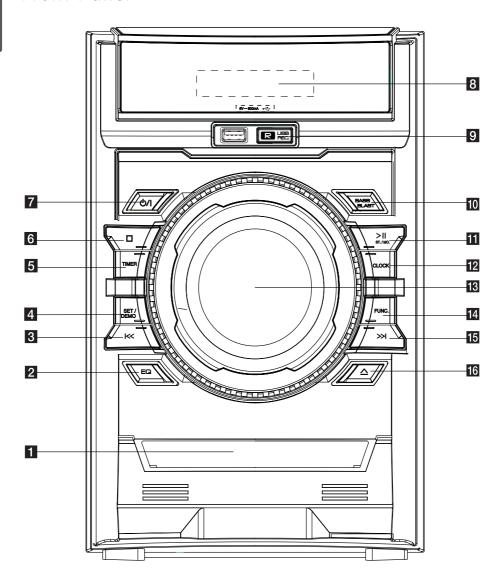
- Devices which require additional program installation when you have connected it to a computer, are not supported.
- Do not extract the USB device while in operation.
- For a large capacity USB, it may take longer than a few minute to be searched.
- To prevent data loss, back up all data.
- If you use a USB extension cable or USB hub, the USB device is not recognized.
- Using NTFS file system is not supported. (Only FAT(16/32) file system is supported.)
- This unit is not supported when the total number of files is 1 000 or more.
- External HDD, Card readers, Locked devices, or hard type USB devices are not supported.
- USB port of the unit cannot be connected to PC. The unit cannot be used as a storage device.







Front Panel









2 EQ

Chooses sound impressions.

- **3 I**≪ (Skip/Search)
 - Searches forward.
 - Skips to the previous track/file.
- 4 SET/DEMO
 - Confirms the setting.
 - Demonstrates each of functions.
- 5 TIMER

Uses your unit as an alarm clock.

6 □(Stop)

Stops playback or recording.

7 🖒/ (Power)

Switches the unit ON or OFF.

- 8 Display window.
- 9 R USB REC.

Records music to USB.



Reinforces the treble, bass and surround effect.

- 11 >||ST./MO.
 - Starts or pauses playback.
 - Selects Stereo/Mono.
- 12 CLOCK

Sets the clock and checks the time.

13 Volume knob

Adjusts volume of speaker.

14 FUNC.

Selects the function or input source.

- 15 **≫** (Skip/Search)
 - Searches backward.
 - Skips to the next track/file.
- **16** △ (Open/Close)

Opens and closes the disc tray.



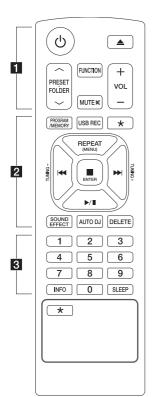
etting Started







Remote Control



(b) (Power): Switches the unit ON or OFF.

▲ (Open/Close): Opens and closes the disc tray.

PRESET-FOLDER Λ/V :

- Searches for a folder of MP3/ WMA files. When a CD/USB containing MP3/WMA files in several folders is being played, press **PRESET-FOLDER ∧**/**V** to select the folder you want to play.
- Chooses a preset number for a radio station.

FUNCTION: Selects the function and input source.

MUTE: Mutes the sound.

VOL +/-: Adjusts speaker volume.

PROGRAM/MEMORY:

- Stores radio stations.
- Creates a playlist you want to listen to.

USB REC: USB direct recording.

★: The button is not available for any function.

REPEAT(MENU):

- Listens to your tracks/files repeatedly or randomly.

I◀◀/▶►I (Skip/Search):

- Skips Fast backward or Forward.
- Searches for a section within a track/file.

TUNING-/+: Selects the radio station.

■ ENTER:

- Stops playback or recording.
- Cancels DELETE function.

►/II (Plav/Pause):

- Starts or pauses playback.
- Selects STEREO/MONO.

SOUND EFFECT : Chooses sound impressions.

AUTO DJ: Selects the AUTO DJ mode. (For more information refer to the page 16)

DELETE: Deletes MP3/WMA files.

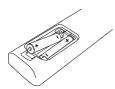
. 3

0 to **9** numerical buttons : Selects numbered tracks/files, or preset number.

INFO: Sees informations about your music.

SLEEP: Sets the system to turn off automatically at a specified time. (Dimmer: The display window will be darkened by half.)

Battery Installation

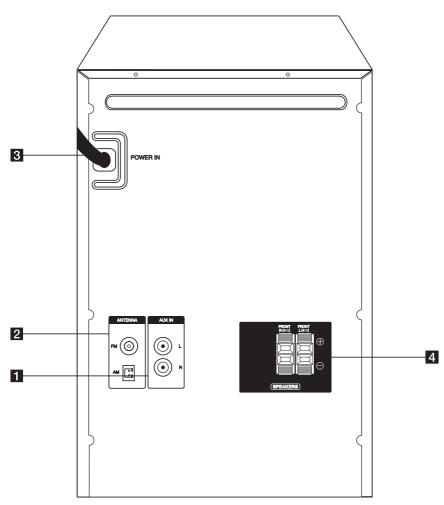


Remove the battery cover on the rear of the Remote Control, and insert two (size AAA) batteries with \oplus and \oplus matched correctly

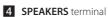




Rear Panel



- 1 AUX IN (L/R) connectors
- 2 ANTENNA (FM/AM)
- 3 POWER IN







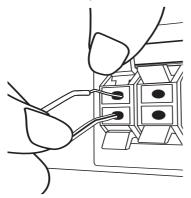


Connecting to speakers

Attaching the speakers to the unit

To connect the cable to the unit, press each plastic finger pad to open the connection terminals on the unit. Insert the wire and release the finger pad.

Connect the black stripe of each wire to the terminals marked - (minus) and the other end to the terminals marked + (plus).



Note

- Be careful to make sure children do not put their hands or any objects into the *speaker
 - *Speaker duct: A hall for plentiful bass sound on speaker cabinet (enclosure)
- The speakers contain magnet parts, so color irregularity may occur on the TV screen or PC monitor screen. Please use the speakers far away from either TV screen or PC monitor.

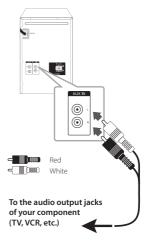
| Color | Speaker |
|-------|---------|
| Red | Front |
| White | Front |

Optional Equipment Connection

AUX IN Connection

Connect an output of auxiliary device(Camcoder, TV, Player, etc) to the AUX IN(L/R) connector.

If your device has only one output for audio(mono), connect it to the left (white) audio jack on the unit.









USB Connection

Connect the USB port of USB Memory (or MP3 player, etc.) to the USB port on the front of the unit.





Removing the USB Device from the unit.

- Choose a different function/mode or press

 ☐(Stop) twice in a row.
- 2. Remove the USB device from the unit.

Listening to the sound from your external device

The unit can be used to play the sound from many types of external device.

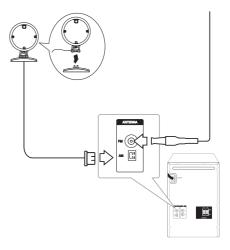
- Connect the external device to the AUX IN(L/R) connector of the unit.
- 2. Turn the power on by pressing 🖰 / (Power).
- 3. Select the AUX function by pressing **FUNC.** on the unit.
- 4. Turn the external device and start playing it

Antenna Connection

Connect the supplied FM/AM antenna for listening to the radio.

Connect the FM wire antenna to the FM antenna connector.

Connect the AM loop antenna to the AM antenna connector.





- Be sure to fully extend the FM wire antenna.
- To prevent noise pickup, keep the AM Loop antenna away from the unit and other components.







Basic Operations

CD/USB Operations

- Select the CD or USB function by pressing FUNCTION on the remote control or FUNC. on the unit
- Select a track/file you want to play by pressing
 I◄◄/►►I on the remote control or I≪/>➤I
 on the unit.

| То | Do this |
|--|--|
| Stop | Press ■ ENTER or □. |
| Playback | Press ►/II or > ST./MO. |
| Pause | During playback, Press ►/II or ►/IST./MO. |
| Skipping to the next/ previous track/file | During playback, press I◀◀/ ▶▶ or I≪/≫ to go to the next track/file or to return to the beginning of the current track/file. Playing less than 2 seconds, press I◀ or I≪ to go to the previous track/file. Playing after 3 seconds, press I◀ or I≪ to go to the beginning of the track/file. |
| Selecting a track/file directly | Press 0 to 9 numerical buttons to go to the desired file or track directly. |
| Searching for a section within a track/file | Press and hold I◀◀/▶▶I or I≪/ ≫I during playback and release it at the point you want to listen to. |
| Playing repeatedly or randomly | Press REPEAT(MENU) repeatedly. The display will be changed in the following order. RPT1 -> RPT *DIR (only MP3/WMA) -> RPT ALL -> RANDOM -> OFF. *DIR: Directory |

The DTS is not supported. In case of DTS audio format, audio is not output.

Other Operations

Programmed Playback

The program function enables you to store your favorite files from any disc or USB device.

A program can contain 20 tracks/files.

- 1. Insert a CD or connect your USB and wait for it to be ordered.
- Press PROGRAM/MEMORY on the remote control in stop status.
- Press I◀◀/▶►I on the remote control to select a track/file.
- Press PROGRAM/MEMORY again to save and select a next track/file.
- 5. Repeat steps 3-4 to select a next track/file.
- 6. Press ►/II to play the programmed music tracks/files.
- 7. To clear your selection, press **ENTER** twice.



The programs are also cleared when the disc or USB device is removed, the unit is powered off or the function is switched to others.

Displaying file information

While playing an MP3 file containing file information, you can display the information by pressing **INFO**.

Searching for a folder

- Press PRESET-FOLDER \(\Lambda/V\) on the remote control repeatedly until a desired folder appears in the display window.
- 2. Press ►/II to play it. The first file of the folder will be played.







Turn off the sound temporarily

Press **MUTE** on the remote control to mute your sound.

You can mute your sound, for example, to answer the telephone, the "MUTE" will appear and blink in the display window.

To cancel it, press **MUTE** again or change the volume level.

Deleting an MP3/WMA file

You can delete a file, folder or format by pressing **DELETE**. (USB only)

- Press **DELETE** repeatedly while selecting the MP3/WMA file. This function is supported only in stop status. The display changes in the following order.
 - DEL FILE : Deletes file.DEL DIR : Deletes folder.FORMAT : Formats USB.
- To delete file/folder or format, press ►/II
 on the remote control or press ►II ST./MO. on
 the unit.
- If you want to exit the current mode, press ■ ENTER on the remote control or press □ on the unit.



Note

- Do not extract the USB device during operation.(play, delete, etc.)
- Regular back up is recommended to prevent data loss.
- The delete function may not be supported according to the USB status.

DEMO

In power off state, press **SET/DEMO** on the unit once. The unit will power on and display the each of functions in the display window. To cancel the DEMO function, press **SET/DEMO** once more.



Note

- While DEMO, this unit will keep DEMO status even if you unplug the power cord connection.
- You can enjoy other functions during the DEMO. Then the DEMO will pause temporarily.
 - Without input key in 10 sec, the DEMO will play back automatically.









AUTO DJ playback

Auto DJ blends the end of one song into the beginning of another for seamless playback. It equalizes volume across tracks for uninterrupted playback.

Press AUTO DJ on the remote control repeatedly, the display changes as followings.

AUTO DJ RANDOM -> AUTO DJ SEQUENTIAL -> AUTO DJ OFF

| Mode | Display Window | Description |
|--------|-----------------------|--|
| OFF | AUTO DJ OFF | - |
| RANDOM | AUTO DJ RANDOM | The music is played randomly on this mode. |
| REPEAT | AUTO DJ SEQUENTIAL | The music is played repeatedly on this mode. |

Note

- Searching for a section within a track/file or playing repeatedly or randomly is not supported on the AUTO DJ mode.
- During AUTO DJ mode, it is not available to search file by pressing PRESET:FOLDER Λ/V on the remote control.
- If you move to other functions or stop the music, using \square on the unit or \blacksquare **ENTER** on the remote control in AUTO DJ mode, AUTO DJ function will not work.
- AUTO DJ function is not supported in the music file whose length is less than 60
- During recording, AUTO DJ function is not available.
- If you change a disc while the AUTO DJ function is activated, the function isn't work.

Auto Power Down

This unit will be off itself to save electronic consumption in the case main unit is not connected to external device and is not used for 25 minutes. So does this unit after 6 hours since Main unit has been connected to other device using analog input.



Operating





Operating



Radio Operations

Be sure that FM/AM aerial is connected. (Refer to the page 13)

Listening to the radio

- Press FUNCTION on the remote control or FUNC. on the unit until FM/AM appears in the display window. The last received station is tuned in.
- Auto tuning: Press TUNING -/+ on the remote control or I≪/≫I on the unit for about 2 seconds until the frequency indication starts changing, then release. scanning stops when the unit tunes in a station.
 - Manual tuning: Press **TUNING -/+** on the remote control or **|** << /> **>>|** on the unit repeatedly.
- Adjust the volume by pressing VOL +/- on the remote control or by rotating volume knob on the unit repeatedly.

Presetting the Radio Stations

You can preset 50 stations for FM/AM.

Before tuning, make sure to turn down the volume.

- Press FUNCTION on the remote control or FUNC. on the unit until FM/AM appears in the display window.
- Select the desired frequency by pressing TUNING-/+ on the remote control or I≪/≫I on the unit.
- Press PROGRAM/MEMORY. A preset number will blink in the display window.
- 4. Press **PRESET-FOLDER** Λ/V to select the preset number you want.
- Press PROGRAM/MEMORY. The station is stored.
- 6. Repeat steps 2 to 5 to store other stations.
- To listen to a preset station, press
 PRESET-FOLDER \(\Lambda/\text{V}\) or 0 to 9 numerical buttons.

Deleting all the saved stations

- Press and hold **PROGRAM/MEMORY** for two seconds. "ERASEALL" will blink in the unit display.
- Press PROGRAM/MEMORY to erase all saved radio stations.

Improving poor FM reception

Press ►/II on the remote control or ➤II ST./MO. on the unit. This will change the tuner from stereo to mono. Then the reception will be better than before.







Sound adjustment

Setting the surround mode

This system has a number of pre-set surround sound fields. You can select a desired sound mode by using **SOUND EFFECT** on the remote control or **EQ** on the unit.

The displayed items for the Equalizer may be different depending on sound sources and effects.

| On Display | Description |
|--------------------------------------|---|
| NATURAL | You can enjoy comfortable and natural sound. |
| AUTO EQ | Realizes the sound equalizer that is the most similar to the genre of which is included in the MP3 ID3 tag of song files. |
| Local Specialization equalizer | Regionally optimized sound effect. (FORRO/FUNK/ SERTANEJO/DANGDUT/ARABIC/ PERSIAN/INDIA/REGUETON/ MERENGUE/SALSA/SAMBA/ CUMBIA/AFRO HIP HOP) |
| POP CLASSIC JAZZ ROCK | This program lends an enthusiastic atmosphere to the sound, giving you the feeling you are at an actual rock pop, jazz or classic concert. |
| MP3 OPT | This function is optimized for compressible MP3 file. It improves the treble sound. |
| BASS | Reinforces the treble, bass and surround sound effect. |
| LOUDNESS | Improves the bass and treble sound. |
| BYPASS | You can enjoy the sound without equalizer effect. |



Note

- On some speakers, sound may not be heard or heard in low sound depending on the sound mode.
- Maybe you need to reset the surround mode, after switching the input, sometimes even after the sound track changed.
- By pressing BASS BLAST on the unit you can directly select the BYPASS or BASS BLAST sound.



Operating







Setting the Clock

- 1. Turn the unit on.
- Press CLOCK.
- 3. Choose time mode by pressing $|\langle\langle\rangle\rangle|$.
 - AM 12:00 (for an AM and PM display) or 0:00 (for a 24 hour display)
- 4. Press **SET/DEMO** to confirm your selection.
- 5. Select the hours by pressing $|\langle\langle\rangle\rangle|$.
- 6. Press SET/DEMO.
- 7. Select the minutes by pressing $|\langle\langle\rangle\rangle|$.
- 8. Press SET/DEMO.
- 9. If you want to reset the clock, press and hlod **CLOCK**. Then repeat steps 3-8.

Setting the alarm

You can use the unit as an alarm clock. You have to set the clock before setting the alarm.

- 1. Turn the unit on.
- Press TIMER.
- Each of functions will blink. Press SET/DEMO to select a sound source you want.
- "ON TIME" will be displayed. This is your desired time to the unit turns on. Press |≪/≫| to change the hours and minutes and press SET/DEMO to save.
- The "OFF TIME" will be displayed. This is your desired time to the unit turns off. Press |≪/≫| to change the hours and minutes and press SET/ DEMO to save.
- Press !≪/≫! to change the volume and press SET/DEMO to save. The clock icon "⊕" shows that the alarm is set.
- 7. Press **TIMER**. You can check the setting status.
- 8. If you want to reset the alarm, press and hlod **TIMER**. Then repeat steps 3-6.

Sleep Timer Setting

Press **SLEEP** on the remote control repeatedly to select delay time between 10 and 180 minutes. After delay time, the unit will turn off. (You can see the following order, 180 ->150 -> 120 -> 90 -> 80 -> 70 -> 60 -> 50 -> 40 -> 30 -> 20 -> 10). To cancel the sleep function, press **SLEEP** repeatedly until the display window get bright.



Note

- Press **SLEEP**. The remaining time appears in the display window.
- Sleep function will work after dimmer function.

Dimmer

Press **SLEEP** once. The display window will be darkened by half. To cancel it, press **SLEEP** repeatedly until the display window get bright.



Note

- After setting a clock function, you can set alarm function.
- If you set the clock and alarm, you can check the time and alarm icon "O" by pressing CLOCK although the unit is turned off.
- During playback, press TIMER two times when the alarm icon "O" is displayed. You can check the setting state.
- If you activate the alarm, the alarm icon "O" will appear in the display window.
- If you deactivate the alarm, the alarm icon "()" will disappear in the display window.
- Alarm function only works when the unit is turned off.
- If the time you set is up, the unit will be turned on automatically.







Advanced Operation

Recording to USB

You can record various sound sources to USB.

- Connect the USB device to the unit.
- 2. Select a function by pressing **FUNCTION** on the remote control or FUNC. on the unit.

One track/file recording - You can record to USB after playing a track/file you want.

All tracks/files recording - You can record to USB after stop.

Program list recording - After showing the programmed list, you can record it to USB. (Refer to the page 14)

- 3. Start the recording by pressing **USB REC** on the remote control or **R USB REC.** on the unit.
- 4. To stop recording, press **ENTER** on the remote control or \square on the unit.

Pausing recording

During recording, press USB REC on the remote control or **R USB REC.** on the unit to pause recording. Press it again to restart recording. (Only Radio/AUX)

To select recording bit rate and speed

- 1. Press USB REC on the remote control or R USB REC. on the unit for longer than 3
- Use ◄◄/▶► on the remote control or >> on the unit to select the bit rate.
- 3. Press **USB REC** on the remote control or USB REC. on the unit again to select the recording speed.
- 4. Press ► on the remote control or | <</p>
 | on the unit to select a desired recording speed: (AUDIO CD only)

X1 SPEED

- You can listen to music while recording it.

X2 SPEED

- You can just record the music file.
- 5. Press **USB REC** on the remote control or **USB REC.** on the unit to finish the setting.



Note

- You can check the recording percentage rate for the USB record on the display window during the recording. (MP3/WMA CD Only)
- During recording MP3/WMA, there is no sound.
- When you stop recording during playback, the file that has been recorded at that time will be stored. (Except MP3/WMA files)
- Do not remove the USB device or turn off the unit during USB recording. If not. an incomplete file may be made and not deleted on PC.
- · If USB recording does not work, the message like "NO USB", "ERROR", "FULL" or "NO REC" is displayed on the display window.
- Multi card reader device or External HDD can not be used for USB recording.
- A file is recorded by about 512 Mbyte when you record for a long term.
- You may not store more than 999 files.
- · It'll be stored as follows.

| AUDIO CD | MP3/WMA | The other source* |
|----------------------------|--|-------------------------------------|
| CD_REC - TRK_001 - TRK_002 | FILE_REC - ABC(File name) - DEF(File name) | EXT_REC - AUDIO_001 - AUDIO_002 - : |

*: TUNER, AUX and the like.

The making of unauthorized copies of copyprotected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offense. This equipment should not be used for such purposes.

> Be responsible Respect copyrights





Troubleshooting

| Problem | Cause & Correction |
|---|---|
| No Power. | The power cord is not plugged in. Plug in the power cord. Check whether electricity failed. Check the condition by operating other electronic devices. |
| No sound. | Check whether you select a right function. Press FUNC. and check the selected function. Speaker cables are not connected correctly. Connect speaker cables correctly. |
| The unit does not start playback. | An unplayable disc is inserted. Insert a playable disc. No disc is inserted. Insert a disc. The disc is dirty. Clean the disc. (Refer to the page 24) The disc is inserted upside down. Place the disc with the label or printed side facing upwards. |
| Radio stations cannot be tuned in properly. | The antenna is positioned or connected poorly. Connect the antenna securely. The signal strength of the radio station is too weak. Tune to the station manually. No stations have been preset or preset stations have been cleared (when being tuned by scanning preset channels). Preset some radio stations, see page 17 for details. |
| The remote control does not work properly. | The remote control is too far from the unit. Operate the remote control within about 23 ft (7 m). There is an obstacle in the path of the remote control and the unit. Remove the obstacle. The batteries in the remote control are exhausted. Replace the batteries with new ones. |





Specifications

| General | |
|------------------------|--------------------------------|
| Power requirements | Refer to the main label. |
| Power consumption | Refer to the main label. |
| Dimensions (W x H x D) | 202 mm x 307 mm x 315 mm |
| Net Weight (Approx.) | 2.79 kg |
| Operating temperature | 5 °C to 35 °C (41 °F to 95 °F) |
| Operating humidity | 5 % to 90 % |
| Bus Power Supply | DC 5 V === 500 mA |

| Inputs | |
|--------|---|
| AUX IN | 2.0 Vrms (1 kHz, 0 dB), 75 Ω, RCA jack (L, R) x 1 |

| Tuner | |
|-----------------|--|
| FM Tuning Range | 87.5 to 108.0 MHz or 87.50 to 108.00 MHz |
| AM Tuning Range | 522 to 1 620 kHz, 520 to 1 710 kHz or 522 to 1 710 kHz |

| Amplifier | |
|-------------|-----------------------------------|
| Stereo mode | 65w+65w (4 Ω at 1 KHz, THD 10%) |

| CD | |
|-----------------------|------------------|
| Frequency Response | 100 to 20 000 Hz |
| Signal-to-noise ratio | 75 dB |
| Dynamic range | 80 dB |



Speaker specifications

| Front speaker | |
|----------------------------|--------------------------|
| Type | 2 Way 2 Speaker |
| Impedance | 4 Ω |
| Rated Input Power | 65W |
| Max. Input power | 130W |
| Net Dimensions (W x H x D) | 190 mm x 310 mm x 205 mm |
| Net Weight | 2.07 kg x 2 |

• Design and specifications are subject to change without notice.





Maintenance

Notes on Discs

Handling Discs

Never stick paper or tape on the disc.

Storing Discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs

Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for old vinyl records.

Handling the Unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

Do not use volatile liquids such as insecticide spray near the unit.

Wiping with strong pressure may damage the surface.

Do not leave rubber or plastic products in contact with the unit for a long period of time.

Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

Maintaining the Unit

The unit is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished. For details, please contact your nearest authorized service center.









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