Before operating please read all these instructions thoroughly and keep this user manual for future reference.
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Important Cautions

Thank you for purchasing this system. Please read these operating instructions before operating the unit. The operating instructions should be retained for future reference.

For your safety

![CAUTION: RISK OF ELECTRIC SHOCK, DO NOT OPEN]

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Caution:
To prevent fire or shock hazard, do not expose this equipment to rain or moisture place.

Power Requirement
Because the power requirement of the electric products are different in various places, so before you use this product, make sure that the power requirement of the product is complied to the power that the native district supplies.

Laser Product
This product is equipped with low power laser equipment inside, for using safety, don’t take apart any covers or try to take apart the product inside. Please contact the qualified personnel for repairing.

![CLASS 1 LASER PRODUCT]

Caution:
This product is equipped with low power laser equipment inside, for your safety, don’t open the laser radiation protective equipment. Don’t look at the laser radiation district when the equipment is operating.
SOME DOS AND DON’TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

************************
DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before making or changing connections.
DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
DO be careful with glass panels or doors on equipment.
DO route the mains lead so that it is not likely to be walked on, crushed, chafed, or subjected to excessive wear and tear or heat.

************************
DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.
DON'T allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.
DON'T place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer’s approved stand or legs with the fixings provided according to the instructions.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL
— NEVER let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;
— NEVER guess or take chances with electrical equipment of any kind;
— it is better to be safe than sorry!

************************
IMPORTANT

The mains lead on this equipment may be supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plug, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue : NEUTRAL
Brown: LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

On no account connect either of these wires to the terminal marked E or by the earth symbol or coloured green or green and yellow.

Alternatively, this equipment may be supplied with a rewireable plug already fitted, which may be removed if not suitable and an alternative fitted in accordance with the preceding instructions.
Connections

Caution: Turn off all of the unit power sources before connection.
Make all connections before plugging the system into an AC power outlet.

Connect to AM antenna

AM loop antenna

a. Open the AM antenna terminals on the rear of the unit.
b. Attach the AM loop to its base by snapping the tabs on the loop into the slot in the base.
c. Close each of the terminals to connect the antenna securely.

Rotate AM ring shape antenna till the receiving effect is the best. (Don’t place the AM ring shape antenna on the unit cover, or it will affect the receiving effect.)

Connecting the Speakers

Connect the speaker cords between the terminals as shown below.
Connect the cords with a silver line to the (-) (G) terminals and cords with a gold line to the (+) (L) (R) terminals.

Connecting Control Cable

Connect the control cable to the CD player, the amplifier and the radio via connection on the rear of the units as shown below:
Connecting Auxiliary Equipment

Connect signal cords between the AUX input terminals on the amplifier and the output terminals of your auxiliary equipment.

Connecting the AC Power Cord

Insert the AC power cord into a wall outlet, and your system is at your command!
Caution: Be sure to unplug the power cord from the outlet when going out or when the system is not in use for an extended period of time.

Connect the Headphone

Connect a pair of headphones to the phones jack. No sound comes out of the speakers.
Note: Be sure to turn down the volume before connecting or putting on headphones.

Turning the Power On and Off

Turning the System On
Press the standby button (STANDBY) to turn the system on from standby mode. The display comes on.
Caution: When turning the system on, the system comes on ready to continue in the mode it was in when last turned off.

Turning the System Off
Press the standby button (STANDBY) again to turning the system off (called Standby Mode).
Caution: Be sure to unplugging the system from the wall output when going out or when the system is not in use for an extended period of time.

Installation of Batteries in the Remote Control

1. Remove the battery compartment cover.
2. Insert two batteries (size AAA) correctly so that the + and - polarities match the polarity diagrams in the battery compartment.
* About half a year of normal operation can be expected when using the general batteries.
* When the batteries are exhausted, the remote will no longer operate the system. Replace both batteries at the same time with new ones.
* Don’t use an old battery with a new one.
* Don’t use different types of batteries together.
* When the remote is not to be used for a long time period of time, remove the batteries to avoid damage caused by battery leakage and corrosion.
Control Locations

The CD Player

1. Remote Sensor
2. Standby Button
3. VFD Display Lens

4. Disc Door
5. Clock Button
6. Program Button
   Memory Button
7. Previous Button/Search Backward Button
   Tuning backward Button
8. Play/Pause Button
   Preset Station Button
9. Next Button/Search Forward Button
   Tuning Forward Button
10. Stop Button
    Band Switch Button
11. Repeat Button
    Stereo/Mono Select Mode Button
12. Open/Close Button

13. Control Cable Connector
14. FM Antenna
15. AM Antenna Jack

The Spectrum

1. Spectrum Display VFD
2. Select Down Display Mode Button
   Demo Button
3. Select Up Display Mode Button
   Auto Button

4. Control Cable Connector
The Amplifier

1. Headphone Jack
2. Preset Equalizer Button
3. Loudness Button
4. Function Button
5. Volume Control Knob
6. Control Cable Connector
7. AUX1 Input Terminals (L&R)
8. AUX2 Input Terminals (L&R)
9. Left & Right Speaker Output Terminals
10. AC Power Cord

The Remote Control

1. Standby Button
2. Loudness Button
3. Preset Equalizer Button
4. Intro Button
5. CD/OSD Button
6. Play/Pause Button
   - Stereo/Mono Select Button
7. Volume Up Button
8. Previous Button/Search Backward Button
   - Tuning Backward Button
9. Volume Down Button
10. Channel Select Backward Button
    - Directory Down Button
11. Number Buttons
12. Sleep Button
13. CD Function Button
14. Open/Close Button
15. Mute Button
16. User Button
17. Spectrum Display Mode Button
    - VFD Darkness Button (in standby mode)
18. Repeat Button
19. Random Button
20. Stop Button
    - Memory Button
21. Next Button/Search Forward Button
    - Tuning Select Forward Button
22. Channel Select Forward Button
    - Directory Up Button
23. Program Button
24. Clock Button
25. AM/FM Switch Button
26. AUX2 Function Button
27. AUX1 Function Button
Sound Quality/Field

Adjusting the Volume
To increase or decrease the volume, rotate the volume control knob (- VOLUME CONTROL +) on the amplifier or press the volume up/down buttons (VOL +/-) on the remote control.

Control the Loudness
This unit has loudness function, it can automatically increase bass sound effect at low volume (the higher volume, the smaller bass increase), which makes the output sound more excellent. You only need to press the loudness button (LOUDNESS) to obtain the loudness function, the “LOUDNESS” will display on the VFD.

Adjusting the bass, treble
Caution: Before adjust the tone effect, please press the user button (USER) on the remote control to select the bass mode or treble mode.
In corresponding mode, rotate the volume control knob (- VOLUME CONTROL +) clockwise or counter clockwise on the unit or press the volume up/down buttons (VOL +/-) on the remote control to adjust the intensity of output sound: bass, treble.

Preset Equalizer
You can adjust the sound reproduced simply by choosing from 5 preset equalizer. Press the preset equalizer button (P-EQ) once by once to select cyclically one of the following 5 preset equalizer:

   No Display ➔ POPS ➔ JAZZ ➔ CLASSIC ➔ ROCK ➔ USER

   No display : Normal sound
   POPS : Vocal sound is intensified
   JAZZ : For jazz
   CLASSIC : For classic
   ROCK : For rock
   USER : Tuned by user

Changing the Spectrum Display Mode
This unit has set several graphic equalizer modes. Each time you press the select up/down display mode buttons (- DISPLAY +) on the unit or spectrum display mode button (DISP) on the remote control, the indication will changes.
Note: Press and hold the demo button (DEMO) on the unit for one second or more, the spectrum display VFD will display the each spectrum consecutively in order.
Press and hold the auto button (AUTO) on the unit for one second or more, the spectrum display VFD will display the each spectrum consecutively in a random order.

Changing the VFD Darkness
This unit has set several brightness for you to adjust the VFD screen’s light or dark. In standby mode you only need to press the VFD darkness select button (DARK) on the remote control, then you can choose the proper lighting to use this system at different times.
Listening to Radio Broadcasts

You can listen to FM and AM stations. Stations can be tuned in manually, automatically, or from preset memory storage.

Caution: Before listening to the radio, please check that both the FM and AM antennas are correctly connected.

Tuning in a Station

1. Repeatedly press the function button (FUNCTION) on the unit or direct press the AM/FM switch button (AM/FM) on the remote control to select tuner function.
2. Press the AM/FM switch button (AM/FM) to select the band.
3. Select a station using one of the following methods.

- Manual Tuning
  Press the tuning backward button (TUNING-) or tuning forward button (TUNING+) repeatedly to move from frequency to frequency until you find the station you want.

- Auto Tuning
  If you press and hold the tuning backward button (TUNING-), tuning forward button (TUNING+) for one second or more, the frequency changes down, or up, automatically until a station is found.

- Preset Tuning (Possible only after presetting stations)
  Press the presetting stations button (PRESET) on the unit or press the channel select backward button (CH-), channel select forward button (CH+) on the remote control to select the desired preset number. Its band and frequency are displayed on the VFD.

Presetting Stations

You can preset up to 16 FM stations and up to 16 AM stations.

1. Tuning in the desired station.
2. Press the memory button (MEM), the “MEM” will flash on the VFD.
3. Press the presetting stations button (PRESET) on the unit or press the channel select backward button (CH-) or channel select forward button (CH+) on the remote control to select the preset number, the “MEM” will flash on the VFD.
   
<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRESET</td>
<td>Increases cyclically the preset number</td>
</tr>
<tr>
<td>CH-</td>
<td>Decreases the preset number by 1</td>
</tr>
<tr>
<td>CH+</td>
<td>Increases the preset number by 1</td>
</tr>
</tbody>
</table>

4. Press the memory button (MEM) to store the station. After 1 second, the VFD returns to the broadcast frequency display.
5. Repeat above steps 1 to 4 for each station you want to store in memory with a preset number.

To change the FM Reception Mode

When you are tuned into an FM stereo broadcast, the “FM ST.” will display on the VFD and you can hear stereo effects.

If an FM stereo broadcast is hard to receive or noisy, you can select monaural mode. Reception improves, but you lose any stereo effect. Press the stereo/MONO select button (STEREO) on the unit or stereo/MONO select button (ST./MO.) on the remote control so that the “FM ST.” goes off on the VFD.

To restore the stereo effect, press the stereo/MONO select button (STEREO) on the unit or stereo/MONO select button (ST./MO.) on the remote control so that the “FM ST.” will display on the VFD.
CD Operation

CD Playing
1. Repeatedly press the function button (FUNCTION) on the amplifier or direct CD function button (CD) on the remote control to select CD function.
2. Press the open/close button (▲) to open the disc door and place the disc on the disc tray (with the printed side up).
3. Press the open/close button (▲) to close the disc door, the unit will read the disc and play it automatically.
   Note: If a power failure occurs, you can close the disc door while pushing the disc door.
   In stop mode, please press the play/pause button (► II) to start play the disc.
4. Press the play/pause button (► II) to pause the playing, press the button again, it will be continue to play.
5. Press the stop button (■) to stop the disc play.

Direct Select track
Load a disc, upon finishing reading the disc, you can select tracks by using number buttons (0/10,1-9,10+) on the remote control and play.
- If the song number is less than 10, press the number buttons 1-9.
- If the song number is over 10, press 10+ button and press the one of the number buttons 0/10, 1-9. Each press of 10+ increases the tens by 1 eg 10, 20, 30, so for track '22' press '10+' twice then '2'.
   Note: This information will only display when the final digit is entered.

To Skip Search and Play
- Press the previous button (◄◄/◄◄) once or more to skip previous one or more tracks of the disc.
- Press the next button(►►/►►) once or more to skip forward one or more tracks of the disc.

To Search
Press and hold the search backward button (◄◄/◄◄) or search forward button (►►/►►) to
search for the position that you intend to start playing.

Program Play
1. Insert a disc and press STOP when it starts playing.
2. Press the PROGRAM button (PRG.).
3. Press the NUMBER button (0/10, 1-9, +10) on the remote control to select the desired track number.
4. Press the PLAY/PAUSE button (► II) to start programme play.
5. Press the STOP button (■) to stop the programme play. Press twice to clear program.

Random Play
You can have the selections or CD played in a random order.
Random play begins by pressing the random button (RANDOM) on the remote control in stop mode.

Playing the Beginning (Intro) of each Track
In stop mode, press the INTRO button (INTRO) on the remote control to play the beginning of each track consecutively. The playing time of each track is 10 seconds.
Playing Repeatedly

ONE and ALL repeat play can be set by pressing the repeat button (REPEAT).
First press: To repeat the same track over and over again.
Second press: To repeat all tracks on a disc and then play them again and again.
Third press: To cancel the repeat playing.

MP3 Disc Playing

1. Press the open/close button (∆) to open the disc door and place the MP3 disc on the disc tray.
2. Press the CD/OSD button (OSD) on the remote control, ID3 information (song title and artist) will display, or "NO ID3" will display if there is no ID3 information, then press again, directory, track and playing time will display.
3. When playing MP3 disc the current directory and track will display.
4. Press the previous button/search backward button (⏪⏪/⏪⏪) or the next button/search forward button (⏩⏩/⏩⏩) to select the previous/next track. If press the above buttons for a few seconds, it will search backward or search forward.
5. Press the DIR+ button or DIR- button to select the next/previous directory, and play the first track of this directory.
   If playing is stop, press the DIR+ button or DIR- button to select the next/previous directory. Then choose the track with the next button/search forward button (⏩⏩/⏩⏩) or previous button/search backward button (⏪⏪/⏪⏪).
6. Press the play/pause button (▶⏸) to start play the disc.
7. Press the stop button (■) to stop playing.

Note: Play will continue to the final track when the selected track have been played.
   Direct press the number buttons (0/10, 1-9, 10+) on the remote control to select the track and start playing.

Setting the Clock

The built-in clock shows the correct time in the display.
1. Press the clock button (CLOCK) twice, hour indicator will blink.
2. Set the hour with the tuning backward button (TUNING-) or tuning forward button (TUNING+).
3. Press the clock button (CLOCK), minute indicator will blink.
4. Set the minute with the tuning backward button (TUNING-) or tuning forward button (TUNING+).
5. Press the clock button (CLOCK), the built-in clock starts operating and the seconds start counting from 0.

Caution: You can set the clock in standby mode.
   The operating time of every step shouldn’t be longer than 3 seconds or it will return to time display.
   If there is a power failure or turn off the system power, the clock loses its setting.
Setting the Sleep Timer

Use the sleep timer to turn the system off after a certain number of minutes when it is playing. By setting the sleep timer, you can fall asleep to music and know that your system will turn off by itself rather than play all night.

1. Play a disc or tune-in to your desired radio station.
2. Each time you press the sleep button (SLEEP) on the remote control it will change the number of minutes shown in the display in this sequence:

   --, 10 minutes, 20 minutes..............80 minutes, 90 minutes, -00 (OFF)

   After setting the number of minutes for the sleep timer, the display will return to the display as before setting the sleep timer, except ‘SLEEP’ is now shown in the display. The system is now set to turn off after the number of minutes you set.

   • To confirm the sleep time
     When the sleep button (SLEEP) is pressed, the remaining sleep time is displayed. Wait for a few seconds until the display returns to the original display.

   • To cancel the sleep timer setting
     Repeatedly press the sleep button (SLEEP) until ‘-00’ (OFF) is shown on in the display. Turning off the system also cancels the sleep timer.

Setting the Daily Timer

You can use the setting timer to make the unit automatically turns on at a certain time everyday under not completely power off condition. When the setting timer is on effect, the timer indicator “G” will display on the VFD. But the clock must be correctly set for the timer.

1. In standby mode, press the sleep button (SLEEP) on the remote control twice, hour indicator will blink.
2. Set the hour with the tuning backward button (TUNING-) or tuning forward button (TUNING+).
3. Press the sleep button (SLEEP) on the remote control, minute indicator will blink.
4. Set the minute with the tuning backward button (TUNING-) or tuning forward button (TUNING+).
5. Press the sleep button (SLEEP) on the remote control, the selected time is set. Then set the daily timer to “ON” (daily timer set is in effect) or “OFF” (daily timer set is to cancel) by pressing the tuning backward button (TUNING-) or tuning forward button (TUNING+).

Caution:
* You can set the daily timer only in standby mode.
* The operating time of every step shouldn’t longer than 3 seconds or it will return to time display.
* The sound source on the automatic opening mode is the same as the sound source the last time, the unit was turned off by the standby switch.

To confirm the daily time
When press the sleep button (SLEEP) on the remote control in standby mode, the daily time is displayed. Wait for a seconds until the display returns to the time display.

To cancel the daily timer setting
In standby mode, repeatedly press the timer button (SLEEP) on the remote control until the “ON” will display on the VFD, then you can set the daily timer to “OFF” by pressing the tuning backward button (TUNING-) or tuning forward button (TUNING+) (the daily timer will be cancelled).

Turning off the system also cancels the daily timer.

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Protecting the Disc

1. To keep the disc clean, please don't touch the disc's surface when you are holding it. You should hold the edge. (See fig. 1)
2. If the disc is dirty, it will affect the sound quality. Please use the clean and soft cloth to wipe the disc from inside to outside. Don't wipe the disc at circumference direction. (See fig. 2)

3. Don't stick paper on the disc.
4. Don't put the disc at the place with direct sunshine or hot sources.
5. After the disc is played, please put it into a box and keep properly. Don't put the disc disorderly or stack together, in case of causing the disc twisted and deformation.
6. Don't play the disc which has flaw or deformation, in case of damaging this player.
7. If necessary, use soft cloth to dip some diluted neutral liquor and wipe off the finger print etc. blot.
   Don't use recorder detergent or static proof liquor to clean the disc, also don't use gasoline or diluted etc. volatile liquor.

Troubleshooting

If you are having a problem with your system, check this list for a possible solution before calling for service.
If you cannot solve the problem from the hints given here, or the system has been physically damaged, call a qualified person, such as your dealer, for service.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound is heard</td>
<td>Connections are incorrect, or loose</td>
<td>Check all connections and make corrections</td>
</tr>
<tr>
<td>Poor radio reception</td>
<td>The antenna is disconnected</td>
<td>Reconnect the antenna securely</td>
</tr>
<tr>
<td></td>
<td>The antenna is not properly extended and positioned</td>
<td>Extend antenna to the best reception position</td>
</tr>
<tr>
<td>The disc skips</td>
<td>The disc is dirty or scratched</td>
<td>Clean or replace the disc</td>
</tr>
<tr>
<td>The disc does not play</td>
<td>The disc is upside down</td>
<td>Put the disc in with the label side up</td>
</tr>
<tr>
<td></td>
<td>The disc is dirty</td>
<td>Remove disc from player, wipe with a clean cloth and re-insert.</td>
</tr>
<tr>
<td>Unable to operate the remote control</td>
<td>The path between the remote control and the sensor on the player is blocked</td>
<td>Remote the obstruction</td>
</tr>
<tr>
<td>Operations are disabled</td>
<td>The batteries have lost their charge</td>
<td>Replace the batteries</td>
</tr>
<tr>
<td></td>
<td>The built-in microprocessor has malfunctioned due to external electrical interference</td>
<td>Unplug the system then plug it back in</td>
</tr>
</tbody>
</table>
# Specifications

## System Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>~ 230V/50Hz</td>
</tr>
<tr>
<td>AM Frequency Range</td>
<td>531 - 1602 kHz</td>
</tr>
<tr>
<td>FM Frequency Range</td>
<td>87.5 - 108 MHz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>100W</td>
</tr>
<tr>
<td>Rated Output Power</td>
<td>25W × 2</td>
</tr>
<tr>
<td>THD</td>
<td>≤ 0.7% (15W × 2)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(CD) 191(W) × 60(H) × 216(D) mm</td>
</tr>
<tr>
<td></td>
<td>(Spectrum) 190(W) × 50(H) × 216(D) mm</td>
</tr>
<tr>
<td></td>
<td>(Amplifier) 190(W) × 51(H) × 216(D) mm</td>
</tr>
</tbody>
</table>

## Speaker Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>8 Ω</td>
</tr>
<tr>
<td>Input Power</td>
<td>30W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>136(W) × 215(H) × 190(D) mm</td>
</tr>
</tbody>
</table>

## Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna</td>
<td>1</td>
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