Dear Customer,

Please read this manual thoroughly before operating the unit to become more familiar with it and obtain the performance that will bring you continued enjoyment for many years. Keep these instructions handy for future reference.

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

For future reference, record the serial number of the unit printed in the rear of the cabinet.

Serial Number

This equipment has been tested and found to comply with the limits for a Class B digital device. Pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

A SAFETY INSTRUCTIONS

1. OBJECT AND LIQUID ENTRY

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill any liquid on this product.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna system is connected to this product, be sure the antenna system is grounded to provide protection against voltage surges and built-in static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, connection to grounding electrodes, and requirements for grounding electrodes.

18. SERVICING

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECKS

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

22. DAMAGE REQUIRING SERVICE

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or the cabinet has been damaged.
f. If the product exhibits a distinct change in performance - this indicates a need for service.

23. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

24. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer’s attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of entrance as practical.

25. NONUSE PERIODS

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
A CONTROLS

1. Telescopic aerial
2. CD compartment lid
3. CD open (OPEN)
4. Dial scale
5. Play/Pause button (PLAY/PAUSE)
6. Cassette compartment
7. CD Skip button ( ■ )
8. Repeat indicator (REP)
9. Play indicator (PLAY)
10. CD Skip button ( ▶ )
11. CD Repeat button (REP)
12. Stop button (STOP ■ )
13. Program indicator (PROG.)
14. LED
15. FM Stereo indicator (FM ST.)
16. CD Program button (PROG.)
17. AC input socket (—AC IN)
18. Stereo headphones socket (PHONES)
19. Function/Powet switch
20. Volume control (VOLUME)
21. Band switch (AM FM FM ST)
22. Tuning control (TUNING)
23. Battery compartment
24. Pause button ( ■ )
25. Stop/Eject button ( ■ )
26. Fast forward button ( ▶ )
27. Rewind button ( ■ )
28. Play button ( ■ )
29. Record button ( ■ )

B PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1. Water and moisture - Do not use this unit near water, such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, swimming pool, or the like.
2. Heat - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat.
3. Mounting surface - Place the unit on a flat, even surface.
4. Ventilation - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit and 5 cm (2 in.) from each side.
5. Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
6. Objects and liquid entry - Take care that objects or liquids do not get inside the unit through the ventilation openings.
7. Condensation - Moisture may form on the CD Pickup lens when:
   - The unit is moved from a cold spot to a warm spot
   - The heating system has just been turned on
   - The unit is used in a very humid room
   - The unit is cooled by an air conditioner
   - The unit is used in a very humid room
   - The heat is turned on or airtight rack where ventilation may be impeded.
8. Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
9. Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
10. Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
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16. Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.

C POWER SUPPLY

IMPORTANT

Make sure that function is set to TAPE before connecting the AC cord or inserting batteries.

CAUTION

Use only the supplied AC cord. Use with other cords may result in the risk of fire.

Using on batteries

Open the lid of the battery compartment on the bottom and insert eight (size C) batteries, not supplied, with the ▶ and  marks correctly aligned. then close the lid.

To switch from AC power supply to battery power supply, disconnect the AC cord from the AC inlet of the unit.

D MAINTENANCE

To clean the cabinet

Use a soft cloth slightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

To clean the heads and tape paths

After every 10 hours of use, clean the Recording heads and Playback head , the pinch roller and capstan . Use a cotton swab 5 slightly moistened with cleaning fluid or denatured alcohol.

CAUTION

The batteries need to be replaced when:

- The tape speed slows down, volume decreases, or sound is distorted during operation.
- The batteries need to be replaced when:
- The batteries need to be replaced when:
- The batteries need to be replaced when:
- The batteries need to be replaced when:

notes on batteries

- Do not mix different types of batteries or old batteries with new ones.
- Never recharge the batteries, apply heat to them or take them apart.
- Remove dead batteries. If liquid leaks from the batteries, wipe thoroughly to remove. Cassette tapes

To prevent accidental erasure, break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.

D MAINTENANCE

To clean the cabinet

Use a soft cloth slightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

To clean the heads and tape paths

After every 10 hours of use, clean the Recording heads and Playback head , the pinch roller and capstan . Use a cotton swab 5 slightly moistened with cleaning fluid or denatured alcohol.
E CD OPERATION

1. Set function to CD.
2. OPEN the disc compartment and place a disc with the printed side up. The total number of tracks is displayed.
3. Press \[ \rightarrow \] PLAY/PAUSE to start play-the indicator lights up.
The number of the track being played is displayed.
4. Turn VOLUME to adjust the sound.

PROGRAM
In stop state, press PROGRAM, the indicator lights up and flashes. Use skip/search to select the track you wish to program. Press PROGRAM, button to memorize the track you choose. Repeat this step for more tracks you wish to program. (maximum up to 20 tracks) Then press PLAY to start.
To erase the programmed tracks, press STOP and open the CD door.

NOTE
• Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.
• Do not place more than one disc in the disc compartment.
• Do not try to open the disc compartment during play.
• Do not touch the lens. Doing so may cause malfunctions.

F TUNER OPERATION

1. Set function to RADIO.
2. Select a band with BAND.
3. Tune to a station with TUNING.
4. Turn VOLUME to adjust the sound.

For better reception - Extend the FM antenna and orient it for the best reception; AM antenna is inside the unit. Position the unit for the best reception.

FM / FM ST
Sets the FM sound to stereo or monaural.

FM ST. Reception is stereo. When receives FM stereo signal, the FM ST indicator lights up. FM: When an FM stereo broadcast contains noise, set to FM. Noise is reduced, although reception is monaural.

NOTE
If the unit picks up noise from other electrical appliances nearby, like a TV or fluorescent lights, move the unit away.

G TAPE OPERATION

Use Type 1 (normal) tapes only.

PLAYING BACK A TAPE
1. Set function to TAPE.
2. Press \[ \rightarrow \] STOP/EJECT to open the cassette holder and insert a tape with the exposed side up and the side to be played facing out.
3. Press \[ \rightarrow \] PLAY to start play.
4. Turn VOLUME to adjust the sound.

\[ \rightarrow \] STOP/EJECT - Stops play.
\[ \rightarrow \] PAUSE - Pauses play. To resume play, press again.
\[ \rightarrow \] F FWD/ \[ \rightarrow \] REW - Fast forwards/rewinds. To stop winding, press \[ \rightarrow \] STOP/EJECT.

RECORDING
Note that recording is done on only one side of the tape.
1. Insert a tape with the side to be recorded facing out.
2. Wind up the tape to the point where recording starts.
3. Get ready to record from the source.

To record from a CD: set function to CD and start play.
To record from the tuner: set function to RADIO and tune to a station.

3. Press \[ \rightarrow \] REC to start recording.

To stop recording, press \[ \rightarrow \] STOP/EJECT.
To erase a recording, set function to TAPE and start recording.

H GENERAL

To turn off the unit completely, set function to TAPE with all cassette keys released.
To listen with the headphones, connect headphones with a stereo mini plug to the PHONES jack.
If an erroneous display or malfunction occurs, disconnect the AC cord and remove all the batteries to turn off the display. Then turn the power back on.

COPYRIGHT
Please check the copyright laws relating to recordings from disc, radio or external tape for the country in which the machine is being used.

I SPECIFICATIONS

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuner section</td>
<td>Frequency range: FM: 88-108 MHz, AM: 530-1700 kHz</td>
</tr>
<tr>
<td></td>
<td>Deck section</td>
</tr>
<tr>
<td></td>
<td>Frequency range: 4 track, 2 channels</td>
</tr>
<tr>
<td></td>
<td>Recording system: DC bias</td>
</tr>
<tr>
<td></td>
<td>Heads: Recording / playback head Erasure head</td>
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<tr>
<td>CD player section</td>
<td>Disc: Compact disc</td>
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<tr>
<td></td>
<td>Scanning method: Non-contact optical scanner (semiconductor laser)</td>
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<tr>
<td></td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Speaker: 77 mm cone type (2)</td>
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<tr>
<td></td>
<td>Power output: 1.0 W + 1.0 W</td>
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<tr>
<td></td>
<td>Power requirements: DC 12 V using eight size C batteries, AC 120V, 60Hz</td>
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<tr>
<td></td>
<td>Weight: 2.4Kg (excluding batteries)</td>
</tr>
<tr>
<td></td>
<td>Dimensions: 290(W)x160(H)x250(D) mm</td>
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</tbody>
</table>

• Specifications and external appearance are subject to change without notice.