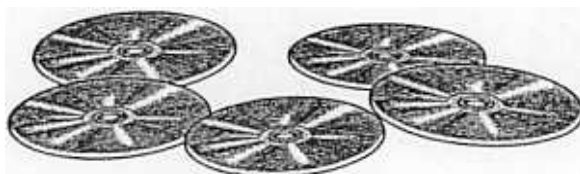# DOLBY SURROUND PRO LOGIC
5 CD MINI HI FI SYSTEM

MINI-CHAÎNE HAUTE FIDÉLITÉ
PRO LOGIC DOLBY, AMBIOPHONIQUE, À CHANGEUR POUR 5 DC

SISTEMA MINI HI FI CON 5 CD
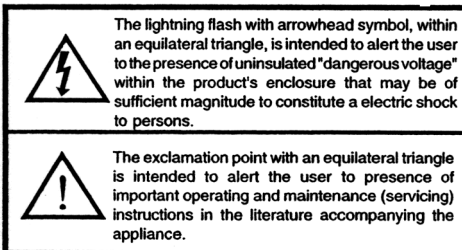## DOLBY SURROUND PRO LOGIC

COMPACT
disc
DIGITAL AUDIO

DOLBY SURROUND
PRO · LOGIC

OPERATING INSTRUCTIONS
INSTRUCTIONS DE FONCTIONNEMENT
MANUAL DE INSTRUCCIONES

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

EXPLANATION OF GRAPHICAL SYMBOLS:

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

The 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 electric shock to persons.

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

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

CAUTION
INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM

CONTENTS

PRECAUTION

Follow the advice below for safe and appropriate operation.

ON PLACEMENT
- Do not use the unit in places which are extremely hot, cold, dusty, or humid.
- Place the unit on a flat and even surface.
- Do not restrict the air flow through the ventilation slots by placing the unit on soft furnishings, by covering the unit with a cloth or by placing the unit on a carpet.

ON AC VOLTAGE
- Before using the unit, check that the rated voltage of your unit matches your local voltage.

ON SAFETY
- When connecting and disconnecting the AC cord, grip the plug and not the cord itself. Pulling the cord may damage it and create a hazard.
- When you are not going to use the unit for a long period of time, disconnect the AC power cord.

ON CONDENSATION
- When left in a heated room where it is warm and damp, water droplets or condensation may from inside the CD player.
- When there is condensation inside the unit, the unit may not function normally.
- Let it stand in a heated room for 1 to 2 hours to allow the condensation to dry out.

FCC Information (For N. America)
This device complies with Part 15 of FCC rules. Operations are subject to the following two conditions: [1] this device may not cause harmful interference, and [2] this device must accept any interference received, including interference that may cause undesirable operations.

Should any trouble occur, disconnect the AC power cord and refer servicing to qualified personnel.
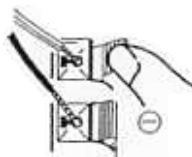
SYSTEM CONNECTIONS

IMPORTANT
Switch off the power before connecting speakers and other equipment.

SPEAKER CORD CONNECTION

Connect the wires with the printed white lines to the red (+) terminals and the plain-black wires to the black (-) terminals.

NOTE:
Connecting speakers other than the speakers supplied with the unit, may damage the unit.

Main Speakers (Left and Right)
Speakers should be placed beside the audio system left and right side several feet apart. Do not place them too close to a colour television as they could cause incorrect colour to appear on the picture.

Surround (Rear) Speakers (Left and Right)
Speakers should be placed behind and aimed toward the viewing area.
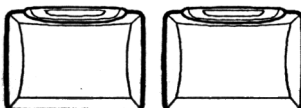
Centre Speaker
Speaker should be placed between two main speakers at the top of audio system.
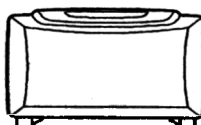
NOTE: Centre speaker is magnetically shielded.

Main Speakers (Left and Right)
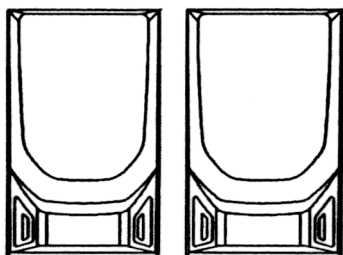
Surround (Rear) Speakers
(Left and Right)   Centre Speaker

CONNECTION WITH OTHER OPTIONAL EQUIPMENT

To listen to or record audio signals from external units through this unit:
Connect the red plug to the R jack, and the white plug to the L jack to the AUX IN connector.

Dolby Pro Logic surround sound can only be reproduced from a stereo sound source, such as a NICAM television, NICAM video recorder, stereo video disc play or stereo satellite receiver. Some older kinds of stereo equipment will not work properly with Pro Logic sound recorders.

AUX IN

L   R

To AC Outlet
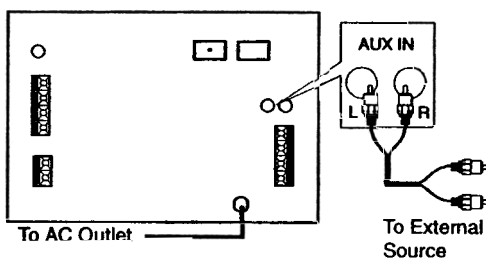
To External
Source

LISTENING TO THE CONNECTED EQUIPMENT
1. Press the FUNCTION button to AUX.
2. Play the external source.
Note: If the external equipment is a television and this audio system is close to it, you may experience interference if the tuner function is selected while the television is working.

CAUTION:
• **FOR U.S.A. AND CANADA**
   To prevent electrical shock, match wide blade of plug to wide slot, fully insert.
• Be sure the AC power cord is disconnected and all functions are off before making onnections.

TO TURN ON THE UNIT
Press the POWER button. The display will light up. Select the desired function and the corresponding function indicator will light up.

AFTER USE
Press the POWER button to enter STANDBY. The display light will fade and only the clock display will be shown.

E-3

SYSTEM CONNECTIONS

Speaker Connections

1. Connect Main Speaker wires (Left & Right) from the Main Speaker to the amplifier's 'MAIN' speaker terminals.

2. Connect Surround (Rear) Speakers wires (Left & Right) from the Surround (Rear) Speaker to the amplifier Surround (Rear) speaker terminals.

3. Connect Centre Speaker wires from the Centre Speaker to the amplifier's centre terminal.

NOTE: Ensure in each case that the striped (+) wire is connected to the (+) terminal of the speaker output and the non-striped wire (-) is connected to the terminal of the speaker output. Also ensure that the correct orientation for left and right main speakers is observed.

Main Speakers (Left and Right)

**Centre
Speaker**

**Surround
(Rear)Speakers
(Left and Right)**
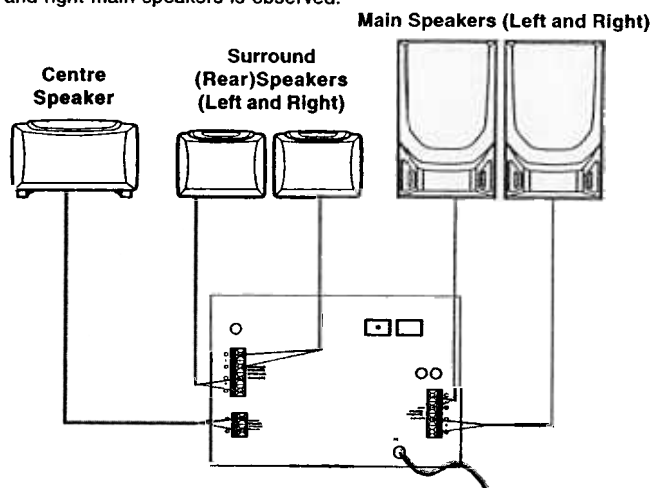
Speaker Positioning Instructions

Place the Main Left Speaker to the left of the audio system as seen from the front of the audio system. Place the Main Right Speaker to the right of the audio system as seen from the front of the audio system.

Place the Centre Speaker on top, below, or at the front of the audio system.
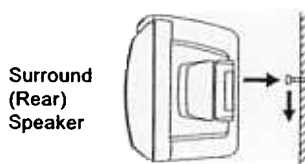
Place the Surround (Rear) Speakers behind and aimed toward the viewing area. The viewing/listening area should be between the audio system and the Surround (Rear) Speakers.

a-- Main speaker (L/R)
b-- The audio system
c-- Centre speaker
d-- Surround (Rear) Speaker (L/R)
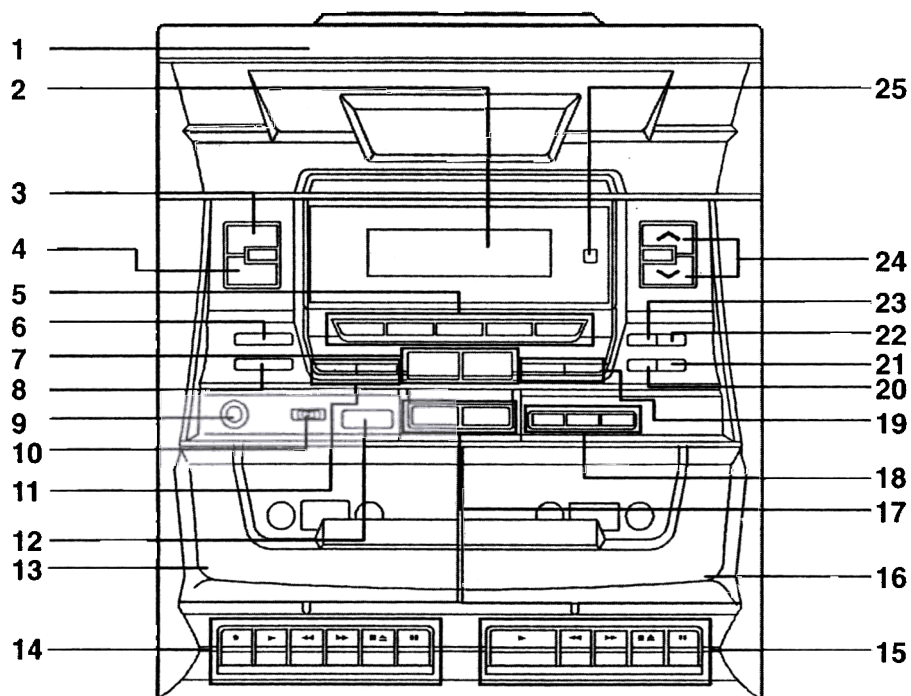e-- Viewing / listening area
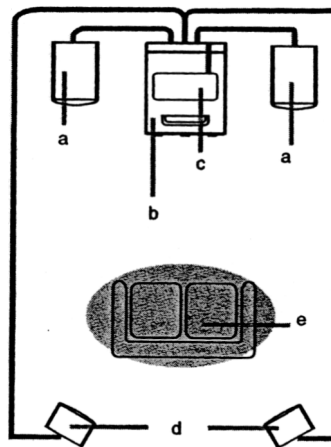
Wall mountable Surround(Rear) Speakers
1. Mark the correct mounting position on the wall.
2. Insert a screw and screw them at the marked position on the wall.
3. Align the slot holes of the speaker over the screw and pull the speaker downward until it is firmly hooked.

**Surround
(Rear)
Speaker**

1) CD DOOR
2) DISPLAY WINDOW
3) POWER / ⏻ STANDBY button
4) CD OPEN/CLOSE button
5) TEST, NORMAL, PHANTOM, WIDE & DOLBY 3
   STEREO buttons
6) DISC SKIP button
7) CD STOP and PLAY/PAUSE buttons
8) PRESET EQUALIZER button
9) PHONES jack
10) MODE selector (BEAT CUT/FM MODE/DUBBING)
11) TUNING, RANDOM, REPEAT buttons
12) FUNCTION button (TUNER/TAPE/AUX/CD)
13) Cassette holder (Deck A)
14) Cassette deck A operation controls
   ● RECORD button
   ▶ PLAY button
   ◀◀ REWIND button
   ▶▶ F.FWD (fast forward) button
   ■▲ STOP/EJECT button
   ❚❚ PAUSE button

15) Cassette deck B operation controls
   ▶ PLAY button
   ◀◀ REWIND button
   ▶▶ F.FWD (fast forward) button
   ■▲ STOP/EJECT button
   ❚❚ PAUSE button
16) Cassette holder (Deck B)
17) X-BASS / DOLBY PRO LOGIC buttons
18) BALANCE selectors
19) PRESET / SKIP / SEARCH buttons
20) CLOCK / MEMORY button
21) BAND button
22) TIMER button
23) SLEEP button
24) VOLUME control buttons
25) REMOTE SENSOR

The function of the DOLBY PRO LOGIC, TEST, NORMAL, PHANTOM, WIDE and DOLBY 3 STEREO buttons are described under "Dolby Surround Pro Logic mode' on page E-8.

E-5

DISPLAY
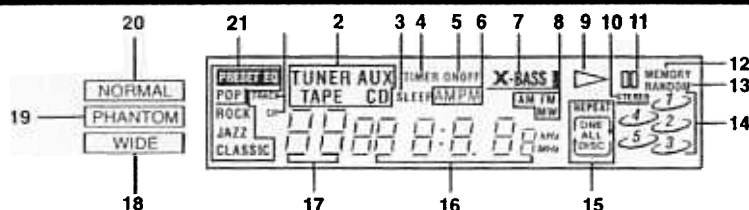
1. TRACK and CHANNEL indicators.
2. FUNCTION indicators.
3. SLEEP indicator.
4. TIMER indicator.
5. ON/OFF indicators.
6. AM/PM indicators.
7. X-Bass indicator.
8. Band (FM/MW(AM) indicators.
9. Playback Indicator.
10. STEREO indicator.
11. Pause indicator.
12. MEMORY indicator.

13. RANDOM indicator.
14. Indicators to show which disc holder of the disc tray is occupied. If a certain disc holder is empty, the corresponding number indicator will be off.
15. REPEAT mode indicators.
16. CLOCK/CD TIMING/BROADCAST STATION display.
17. Track number.
18. WIDE indicator.
19. PHANTOM indicator.
20. NORMAL indicator.
21. Preset equalizer indicators.

POWER INDICATOR

While the AC cord is connected and the unit is on stand-by, power will be consumed and only the clock display will be lit.

- Press the POWER/STANDBY button to turn on the unit.   After a short period of time the display will show:
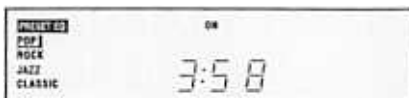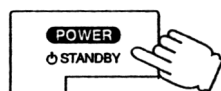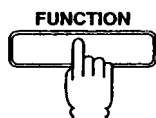
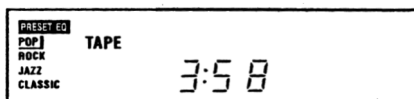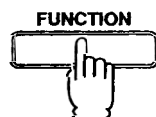- Press the FUNCTION button to AUX.   After a short period of time the display will show:
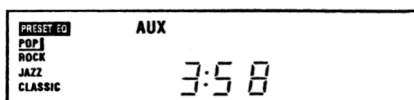
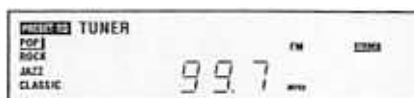
- Press FUNCTION button to TAPE.   After a short period of time the display will show:
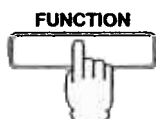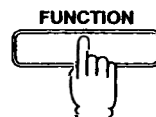
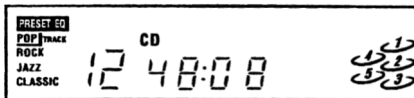

- Press the FUNCTION button to TUNER.   After a short period of time the display will show:

- Press the FUNCTION button to CD.   A short period of time is needed for track shuffling, and the display will show:


- After using the unit press the POWER button and the display light will fade.
- The numbers showing in the display depend on the time, the selected frequency or the compact disc. CD numbers will only be displayed if a compact.

ADJUSTING THE SOUND

TO ADJUST THE VOLUME
Press the VOLUME UP / DOWN buttons to adjust the sound.

VOLUME UP

To increase the volume press here.
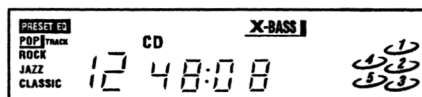
To decrease the volume press here.

DOWN
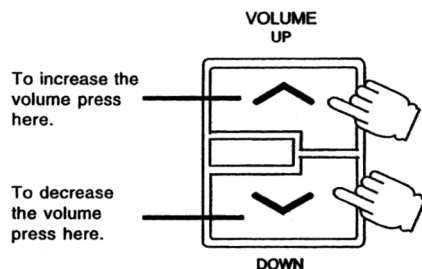
## TO USE THE X-BASS
Press the X-BASS button to adjust the bass.

The display will show:

X-BASS is designed specifically to boost the low frequency sound to obtain a more powerful bass.

TO ADJUST THE SOUND BALANCE
Press the LEFT button to increase the volume level of the left main speaker.

Press the RIGHT button to increase the volume level of the right main speaker.

Press the RESET button to resume the volume level of the main speakers.

BALANCE
LEFT   RESET   RIGHT
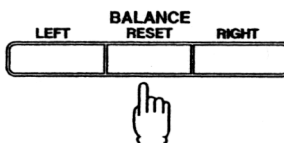
TO ADJUST THE SOUND QUALITY
Press the PRESET EQUALIZER button to select an equalization mode (POP, ROCK, JAZZ, CLASSIC). Press the button repeatedly until the desired equalisation indicator is illuminated.

NOTE: Preset Equalizer is excluded from all DOLBY PRO LOGIC modes.

Only the LEFT and RIGHT speaker indicators will light.

POP: More presence of vocals and mid range.
ROCK: Emphasizes the mid range and bass sounds.
JAZZ: Emphasizes the mid range sounds.
CLASSIC: Strengthens the bass sounds and fine tunes the treble sounds.

FOR PERSONAL LISTENING
Connect headphones (ø 3.5mm stereo mini plug) to the PHONES jack.
Adjust the VOLUME control for the desired listening level.
When headphones are connected, the speakers are switched off automatically.

WHEN RECORDING
During tape recording, adjustments to the VOLUME control and the X-BASS will not effect the recorded signal.

SURROUND SOUND

DOLBY SURROUND PRO LOGIC mode:
Choose this feature when playing Dolby Pro Logic encoded movies and music (especially laser disc, video tapes and TV broadcasts with Dolby Surround sound). Most currently released video cassettes and many TV broadcasts include this feature. Dolby Pro Logic will not only give improved sound, it will give a clear perception of the position and direction of the original sound track.

Three types of centre mode are available when using the Dolby Pro Logic feature, NORMAL WIDE and PHANTOM. These options have programmed surround (delay) values for the centre channel. The delay (or echo effect) is different for each mode:
• The NORMAL mode gives true Dolby Pro Logic sound.
• The WIDE mode can be used to gives greater acoustic separation of the centre speaker.
• The PHANTOM mode diminishes the effect of hearing a true centre channel. The main left and right speakers give the effect of centre channel information.

One other Pro Logic mode is available:
• The DOLBY 3 STEREO mode creates a Dolby Pro Logic sound effect using just the left, right and centre channels. No sound comes from the surround channel speakers. You can still select normal or wide effect in this mode.

To select and cancel Dolby Pro Logic modes
1. Press the PRO LOGIC, PHANTOM or DOLBY 3 STEREO button to select the required mode.
2. Press NORMAL or WIDE buttons to select normal or wide effect (not available in phantom mode).
3. To cancel any Dolby Pro Logic mode, press the PRESET EQUALIZER button.

NOTE:
It is not unusual on some Pro Logic material to have little or no rear speaker output. This is normal and to be expected, as part of the overall effect created by the sound track producer.

To balance your Speakers for Surround sound:
Use the TEST button to set the correct balance of sound between the LEFT, RIGHT, CENTRE and SURROUND speakers in the Dolby Pro Logic mode.

NOTES: Ensure your speakers are correctly positioned as shown on page E-4. It is recommended to balance the speakers at a normal listening level.

1. With the unit switched on, press the TEST mode button on the front panel or remote control.
2. You will hear a test noise from the speakers which will cycle from left/right, centre and surround speakers.
3. While the test noise is coming from the speaker

you want to adjust, increase or decrease the volume by holding the SPEAKER BALANCE + or - button on the remote control. Let go when the balance sounds correct and the test noise cycle will continue.
4. Press the TEST button again to stop the test process.

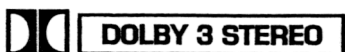**Adjusting the surround sound balance while playing a Pro Logic sound track**
1. Select the desired audio (TUNER, CD, AUX, TAPE)
2. Ensure that the Dolby Pro Logic is selected.
3. If your source is Hi-Fi, VCR or laser disc player, play a Dolby Pro Logic encoded video tape or Dolby Pro Logic encoded laser disc. Make sure your television's volume is turned down. Adjust the MAIN volume buttons to a normal listening level.
4. Using the remote control, press the SPEAKER BALANCE button to light just the display symbol for the speaker you wish to adjust.
5. Hold the SPEAKER BALANCE + button to increase the volume or the SPEAKER BALANCE - button to decrease the volume from the speaker for which symbol is lit. Let go when the volume sounds correct.
6. Wait about 10 seconds and the speaker display symbols will go back to normal.

The following tables show which speakers are working in the various modes.

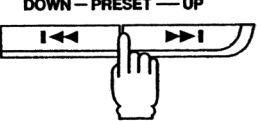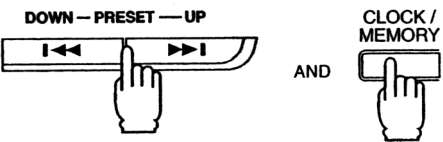| Mode	Left Main Speaker	Right Main Speaker	Centre Speaker	Surround Speakers
NORMAL PRO LOGIC	√	√	√	√
PHANTOM	√	√	X	√
3-STEREO	√	√	√	X
PRESET EQUALISER	√	√	X	X

Manufactured under license from Dolby Laboratories Licensing Corporation.

DOLBY, the double-D symbol ◻◻ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.
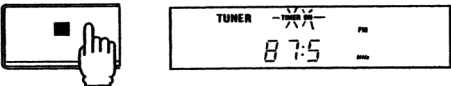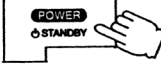
◻◻ | DOLBY SURROUND |
P R O · L O G I C

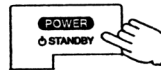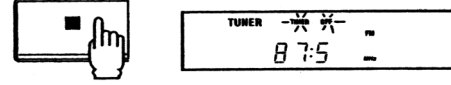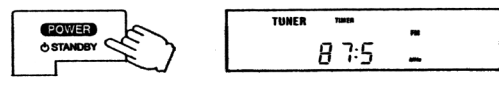**◻◻ | DOLBY SURROUND |**

◻◻ | DOLBY 3 STEREO |

SETTING THE CLOCK

To set the current time (Select power stand-by mode)

1. Press the CLOCK / MEMORY button in clock mode. Hours flash. CLOCK / MEMORY	2. Press the PRESET UP/DOWN buttons repeatedly to set current hour. DOWN — PRESET — UP I◄◄ ►►I
3. Press the CLOCK / MEMORY button to make the correct minutes flash. CLOCK / MEMORY	4. Press the PRESET UP/DOWN buttons to set the minutes and press CLOCK / MEMORY button to start the clock. DOWN — PRESET — UP I◄◄ ►►I AND CLOCK / MEMORY

To set the timer on (time to turn on)

1. Press the POWER/STANDBY button to turn ON the unit. POWER ⏻ STANDBY	2. Press the ■ STOP button until the "TIMER ON" indicator shows on the display TUNER -☼☼- PM 8 7:5
3. Press the CLOCK / MEMORY button in clock mode. **repeat the steps of the setting the current time**	4. Press the POWER/STANDBY button to turn OFF the unit. POWER ⏻ STANDBY

To set the timer off (time to turn off)

|	
1. Press the POWER/STANDBY button to turn ON the unit. POWER ⏻ STANDBY	2. Press the ■ STOP button until the "TIMER OFF" indicator shows on the display TUNER -☼ ☼- PM 8 7:5
3. Press the CLOCK / MEMORY button in clock mode. **repeat the steps of the setting of current time**	4. Press the POWER/STANDBY button to turn OFF the unit. POWER ⏻ STANDBY TUNER TIMER PM 8 7:5

NOTE : 1) Press the ■ STOP button to view the local time, time to turn on and time to turn off step by step, the previous display will be retrieved after 8 seconds.

2) The timer will work if the TIMER key is pressed so that "TIMER" lights up in the display. Cancel the timer by pressing the key so that "TIMER" goes out.

3) Suddenly OFF when playing, the TIMER OFF function are activated. Press the STOP button until the 'TIMER OFF' indicator show on the display.

SETTING THE SLEEP TIMER

1. Press the SLEEP button while the power is on. "SLEEP 90" lights in the display.

   NOTE:
   SLEEP can only be adjusted in TUNER, TAPE and AUX modes.
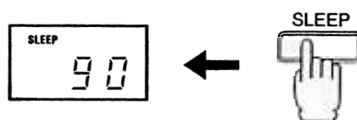
2. Press and hold the SLEEP button to select the length of remaining time until the unit turns off. It changes the indicator in the following way:
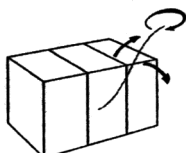
   SLEEP 90 → SLEEP 80
   ↑ ↓
   SLEEP 10 ← ....SLEEP 20

   The Sleep Timer is set and the SLEEP indicator lights in the display. Let go when required sleep time (in minutes) is shown.

   To cancel the sleep timer, press the SLEEP button once and "SLEEP" will go out in the display.

E - 10

FOR BETTER RECEPTION

FM

MW/AM

Fully unwind the wire antenna. Then extend the wire antenna and place it in the position that sounds best.
NOTE: DO NOT CONNECT TO AN OUTSIDE ANTENNA.

Connect the loop aerial (provided) to the 'MW/AM LOOP ANTENNA' snap terminals at the back of the unit.

TUNING INTO A STATION MANUALLY

1. Press the FUNCTION button to TUNER.

FUNCTION
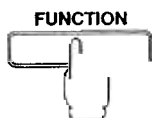
2. Press the BAND button to select the desired band.

BAND

3. Tune into a station.
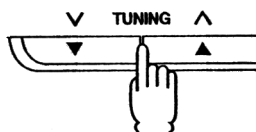
∨ TUNING ∧

TO SEARCH FOR A STATION QUICKLY
Hold the TUNING UP or DOWN button and station searching starts automatically. When a station is found, searching stops automatically.
However, it may not stop if the signal is weak. In this case, search for the station manually.

PRESETTING STATIONS

You can tune into a stored station directly by entering the preset number.
　　20 stations on FM band can be preset.
　　20 stations on MW/AM band can be preset.

1. Press the FUNCTION button to TUNER.

FUNCTION

2. Select a band.
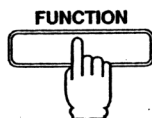
BAND

3. Tune into a station.

∨ TUNING ∧
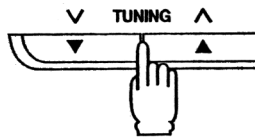
4. Press the CLOCK / MEMORY button.
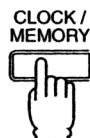
CLOCK /
MEMORY

5. Press the PRESET buttons to preset number.

DOWN – PRESET – UP

|◄◄　　►►|
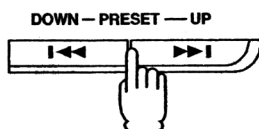
6. Press the CLOCK / MEMORY button.

CLOCK /
MEMORY

Then, repeat steps 2 to 6.

TUNING INTO A PRESET STATION

1. Press the FUNCTION button to TUNER.

FUNCTION
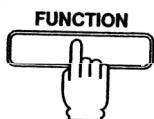
2. Select a band.

BAND

3. Press the PRESET buttons preset number.

DOWN — PRESET — UP

I◀◀   ▶▶I
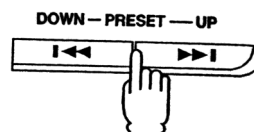
TO RECEIVE THE FM BROADCAST IN STEREO

Set the MODE selector to FM STEREO.
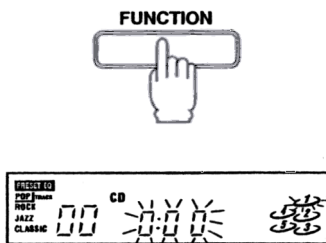When the FM stereo broadcast is received, FM STEREO indicator lights up.

IF THE FM STEREO BROADCAST SIGNAL IS WE
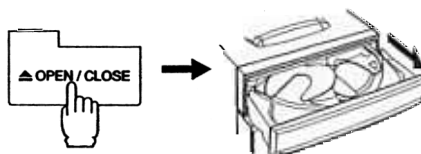
Set the MODE selector to FM MONO.
Background noise will be reduced but the sig reproduced will be mono.

COMPACT DISC PLAYBACK

1. Press the FUNCTION button to CD.

FUNCTION

2. Press the OPEN/CLOSE button to open the disc tray.

3. Place the first disc onto the disc holder, with the label side up.
CAUTION: This unit can play 5" (12cm) disc only.
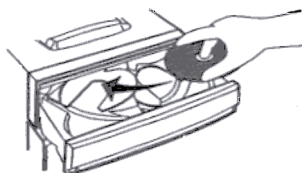
4. Press the DISC SKIP button to revolve the tray clockwise.
Place other disc(s) on the disc holder(s).
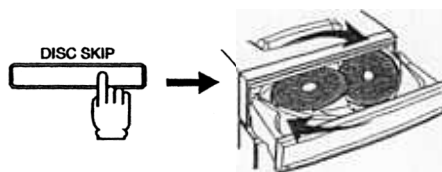
DISC SKIP

5. Press the OPEN/CLOSE button to close the tray.
It takes a short while for your player to check the discs.
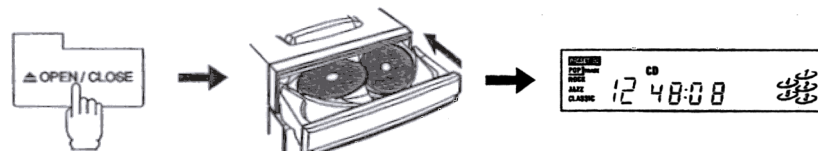
6. Press the DISC SKIP button to select the desired disc. Press either one of the ◄◄ / ►► (SKIP) buttons to select the desired track.The selected disc symbol will flash.

DISC SKIP

DOWN—PRESET—UP
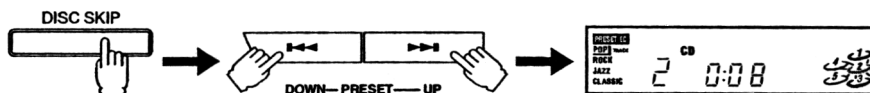
7. Press the ►II PLAY/PAUSE button to start playback.

8. To stop playing:
(a) for a moment only, press ►II PLAY/PAUSE button and ' II ' will be displayed. Press this button again to resume playing.
(b) Press the ■ STOP button.

COMPACT DISC PLAYBACK (CONTINUED)

Notes:1. During playback, disc tray can be opened to change/add disc, but DISC SKIP button will become in
and the current disc playback will not be interrupted.

2. The ◄◄ / ►►I SKIP buttons can only be used to choose a track of the current disc. To choose a trac
another disc, DISC SKIP button should be pressed to get to the desired disc first.

LOCATING A PARTICULAR POINT IN A TRACK

To Locate a Track in Sequence
- To locate the beginning of the current or the preceding track, press ◄◄ reverse SKIP button.
- To locate the beginning of the succeeding track, press ►►I forward SKIP button.
- A short period of time will be needed for the disc to read the information of the desired track before playback can begin.

Reverse skip   **Forward skip**

SKIP / SEARCH

| ◄◄ | ►►I |

Press it once
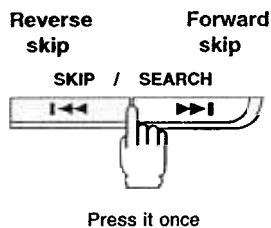
To Locate a Particular Point in a Track
- To move forward at high speed, keep ►► forward SEARCH button pressed and release it at the desired point.
- To move backward at high speed, keep ◄◄ backward SEARCH button pressed and release it at the desired point.
- On forward search the track is rapidly scanned, then the next track and so on to the next disc. The first track on the next disc will be played normally; to carry on scanning release and press the search button.
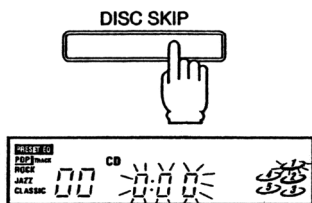
Reverse search   **Forward search**

SKIP / SEARCH

| ◄◄ | ►►I |

Keep it pressed
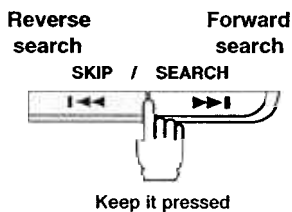
Note: Searching and skipping can be done during playback or pause stage but are effective for the curre
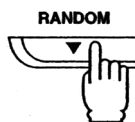selected disc only.
Use DISC SKIP button to choose another disc.

E - 14
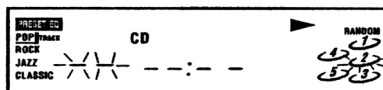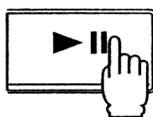
SHUFFLE PLAY - PLAYING IN A RANDOM ORDER
IN STOP MODE

1. Press the DISC SKIP button to select a disc.

DISC SKIP

2. Press the RANDOM button, the word "RANDOM" will appear on the display.

RANDOM

3. Press ►II PLAY/PAUSE button. Some abnormal symbols will be shown on the display and a short period of time is needed for track shuffling, before playback can be started.

Notes:1. The random function shuffles all the tracks **(maximum 48 tracks)** of all discs in the disc tray and randomly selects one track to play each time.
2. The player will skip to a new randomly selected track and start playing if ▶▶I SKIP button is pressed during random playback.

IN PLAYBACK MODE

During normal playback the random function cannot be activated, it can only be switched "ON" from the STOP mode.

TO CANCEL RANDOM PLAYBACK

1. Press the ■ STOP button to stop random playing.
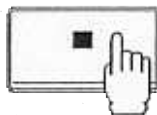
2. Press the RANDOM button to deactivate random playback.
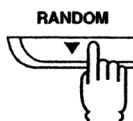
RANDOM

Notes:
During random playback, the RANDOM playback function cannot be cancelled. Random play cancellation can only be done in stop mode.
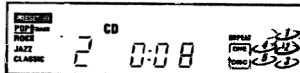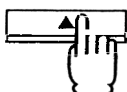
REPEAT PLAYBACK
DURING PLAYBACK MODE
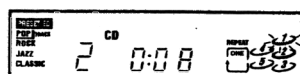
To Repeat the Current Track

REPEAT

- Press the REPEAT button until REPEAT O appears on the display and the currently play track will be played repeatedly until the ST button is pressed.
- SKIP and SEARCH can still be used during function. SKIP will go to the start of the next tra Reverse Skip will go to the start of the pres track, on the second press it will then go to start of the previous track. SEARCH will sea through the tracks normally.

To Repeat the Whole Disc or Programmed Tra

REPEAT

- Press the REPEAT button until REPEAT O DISC appears on the display and the current d or the current program will be played repeate starting from the currently playing point.
- Press the ◄◄ / ►► SEARCH and I◄◄ / ►►I SK buttons with repeat-one-disc function on, o can still search through the whole disc or wh program, and the CD player will then start playi from the selected point.
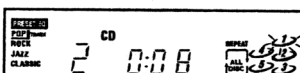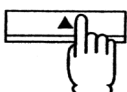
### To Repeat All Disc

REPEAT

- Press the REPEAT button until REPEAT A DISC appears on the display.
- Press the ◄◄ / ►► SEARCH and I◄◄ / ►►I SK buttons can make the player start playing fro the newly selected point of the currently playi disc.
- Press DISC SKIP button can make the play start playing from the first track of the new selected disc. The ◄◄ / ►► SEARCH and I◄◄ / ► SKIP buttons can be used to choose a particula track on this selected disc, the CD player will the start playing from that point.
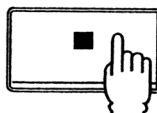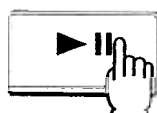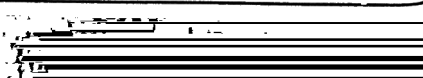
REPEAT
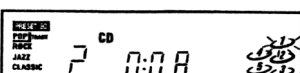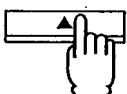
To Cancel Repeat Play

- Press the REPEAT button until the wor "REPEAT" disappears from the display.

DURING STOP MODE

The REPEAT operations can also be done in the stop mode. The player will start playing from Track 1 of the currently selected disc after ►II PLAY/ PAUSE button is pressed.
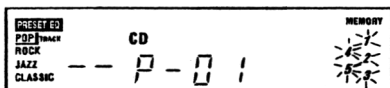
DURING PAUSE MODE

COMPACT DISC PROGRAMMED PLAYBACK

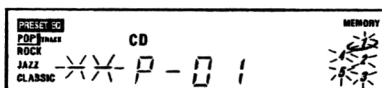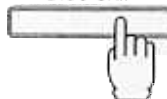A program of up to 32 tracks from all the available discs in the disc tray can be played in a preset order.

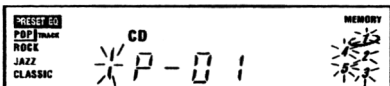**1.** Press the CLOCK / MEMORY button (in stop mode).
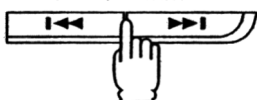
CLOCK /
MEMORY

PRESET EQ
POP TRACK   CD
ROCK
JAZZ   — — P - 0 1   MEMORY
CLASSIC

2. Press the DISC SKIP button to select the desired disc (the disc symbol moves).

DISC SKIP

PRESET EQ
POP TRACK   CD
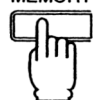ROCK
JAZZ   ✕✕ P - 0 1   MEMORY
CLASSIC

3. Press the ⏮ / ⏭ SKIP buttons to select the desired track.

SKIP / SEARCH

⏮   ⏭

PRESET EQ
POP TRACK   CD
ROCK
JAZZ   ✕ P - 0 1   MEMORY
CLASSIC

4. Press the CLOCK / MEMORY button again to store this track in memory.

CLOCK /
MEMORY

PRESET EQ
POP TRACK   CD
ROCK
JAZZ   — — P - 0 2   MEMORY
CLASSIC
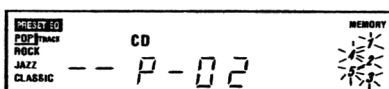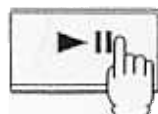
5. To add additional tracks,

Repeat steps 2 to 4.

6. To start playback, press the ⏭ PLAY/PAUSE button.

▶ ∥

NOTE:1. The same track can be selected more than once in the same program.
  2. With program on, the ⏮ / ⏭ SKIP buttons function can only be used for the selected tracks.
  3. With program on, repeat play cannot be done for ALL DISCS.

TO CHECK THE PROGRAM
After setting the program, press the CLOCK / MEMORY button repeatedly to check the order. This will not work when the disc is playing.

STOPPING AND CANCELLING PROGRAMMED PLAYBACK

To stop programmed play for a moment:
- Press the ▶❚❚ PLAY/PAUSE button and " ❚❚ " will be displayed.
 Press this button again to resume playing.

To add additional tracks during program playback:
- Press the ■ STOP button once, press the CLOCK / MEMORY button until the track indication is "--"
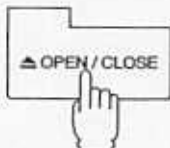 and then repeat steps 2 to 4 (see page E-17).

To erase the whole program:
- Press the ■ STOP until the word "MEMORY" disappears from the display. The display will then show the information of the current disc.
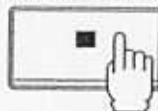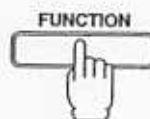
or
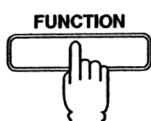Open the disc tray by pressing the OPEN/CLOSE button.

Also
By pressing the FUNCTION button to select other functions.
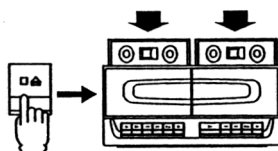
FUNCTION

TAPE PLAYBACK

Usable tapes - use only normal (type I) tapes for playback.
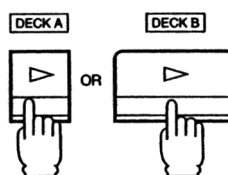You can playback only the front sides of the tapes in Decks A and B.

1. Press the FUNCTION button to TAPE. FUNCTION	2. Press the STOP/EJECT button and load a cassette into the cassette compartment of Deck A or Deck B.	3. Press the PLAY button to begin playback. DECK A DECK B ▷ OR ▷

TO STOP PLAYBACK
Press the STOP/EJECT button.

TO INTERRUPT PLAYBACK
Press the PAUSE button.
To resume play, press the PAUSE button again.

TO FAST WIND
Press the REWIND or F.FWD button. Press the STOP/EJECT button to stop winding at the desired position.
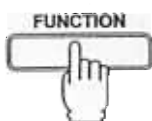
WHEN THE TAPE REACHES ITS END
During fast wind or regular play, the tape will stop automatically when its end is reached.
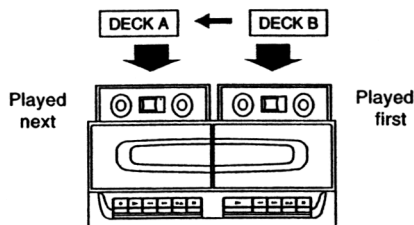
WHEN BOTH DECK A AND DECK B ARE IN THE PLAYBACK MODE
Deck B will playback no sound will come from deck A.

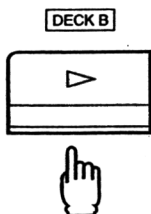## CONTINUOUS PLAYBACK ···· FROM DECK B TO DECK A
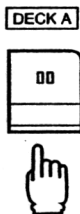
1. Press the FUNCTION button to TAPE. FUNCTION	2. Insert a cassette in each deck. DECK A ◄— DECK B Played next Played first

| 3. Press the PLAY button. DECK B ▷	4. Press the PAUSE button. DECK A ᴰᴰ	5. Press the PLAY button. DECK A ▷
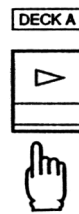
• As soon as the tape in deck B reaches its end and stop, the pause mode for deck A is released and playback starts automatically.

TAPE CARE TIPS

Preventing accidental erasure

1. Cassette tapes have two erase-protection tabs - one for each side. To protect a recording from being accidentally recorded over or erased, use a screwdriver to remove one or both of the cassette tape's erase-protection tabs.

Side A Tab

Side B Tab
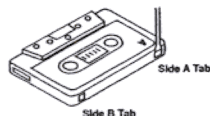
2. If you want to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole.
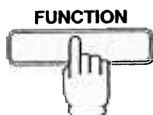
Notes:
1) Be sure you cover only the hole originally covered by the erase-protection tab.
2) Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

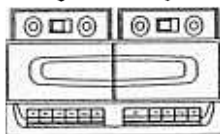## DUBBING ---- FROM DECK B TO DECK A

Use only normal (type I) tapes for recording and playback.

1. Press the FUNCTION switch to TAPE.

FUNCTION

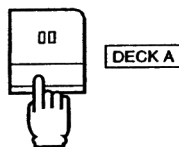**2.** Insert the recorded tape into Deck B and the blank tape into Deck A.
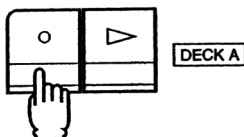
Tape to be recorded   Tape to be played

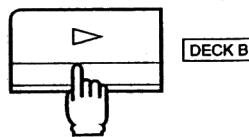**3.** Set the MODE selector according to the desired dubbing speed: NORMAL or HIGH.

1   **BEAT CUT**   2
FM STEREO   FM MONO

NORM   HIGH
DUBBING

4. Press the PAUSE button.

DECK A

5. Press the RECORD button which also engages the PLAY button.

DECK A

6. Press the PLAY button.

DECK B

TO STOP DUBBING
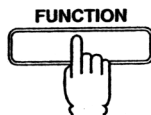Press the STOP/EJECT buttons of Deck A and Deck B.

NOTE:
Do not change the dubbing speed when dubbing is in progress.

RECORDING ---- DECK A ONLY

Use only normal (type I) tapes for recording.
RECORDING FROM THE BUILT-IN TUNER

1. Press the FUNCTION button to TUNER and tune into a desired station. (see Page E-11)

FUNCTION

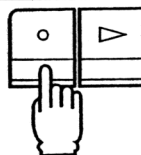**2.** Insert a tape into the cassette compartment.

The side you want to record
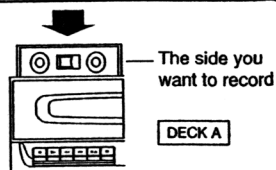
DECK A

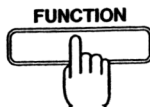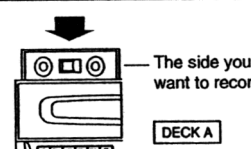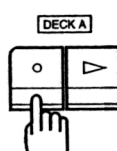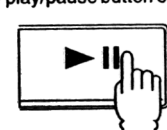**3.** Press the RECORD button which also engages the PLAY button.

DECK A

• If whistle is heard (beat) it may be reduced by switching the "Beat Cut" to the other position.

RECORDING ---- DECK A ONLY

RECORDING FROM THE CD PLAYER

1. Press the FUNCTION button to CD.

FUNCTION

2. Insert a tape into the cassette compartment.

The side you want to record

DECK A

3. Press the RECORD button which also engage the PLAY button.

DECK A

4. Press the ▶ II play/pause button of the CD player.

▶ II

TO STOP RECORDING
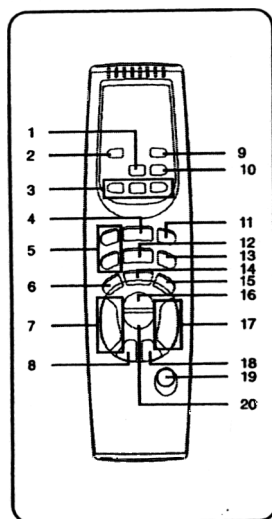Press the STOP/EJECT button of Deck A.

TO INTERRUPT RECORDING
Press the PAUSE button of Deck A.
To resume recording, press the PAUSE button again.

TO ERASE A RECORDED TAPE
1) Press the FUNCTION button to TAPE.
2) Insert a tape with the side you want to erase facing you.
3) Press the RECORD button to start erasing.
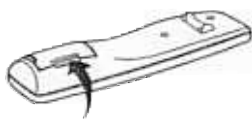
REMOTE CONTROL

REMOTE CONTROL

1) SPEAKERS RESET button
2) SLEEP button
3) BALANCE L/R, SPEAKER "+"/"-" buttons
4) FUNCTION button
5) TUNING UP/DOWN / REPEAT / RANDOM buttons
6) DOLBY 3 STEREO button
7) SKIP/SEARCH/PRESET buttons
8) STOP button
9) TIMER button
10) TEST button

11) MEMORY button
12) OPEN/CLOSE button
13) BAND button
14) PRESET EQ button
15) X-BASS button
16) PRO LOGIC button
17) VOLUME control buttons
18) PLAY/PAUSE button
19) POWER/STANDBY button
20) DISC SKIP button

USING THE REMOTE CONTROL CORRECTLY

• Point the Remote Control at the REMOTE SENSOR located on the unit.
• When there is a strong ambient light source, the performance of the infrared REMOTE SENSOR may be degraded, causing unreliable operation.
• The recommended effective distance for remote operation is about 6 meters (19 feet).

TO INSTALL BATTERIES

1. Open the battery door.

2. Insert two R03 (AAA or UM-4) size batteries.
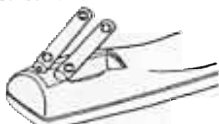
BATTERY REPLACEMENT
When batteries become weak, the operating distance of the Remote Control is greatly reduced and you will need to replace the batteries.
NOTE:
If the Remote Control is not going to be used for a long time, remove the batteries to avoid damage caused by battery leakage corrosion.

MAINTENANCE

TROUBLESHOOTING GUIDE

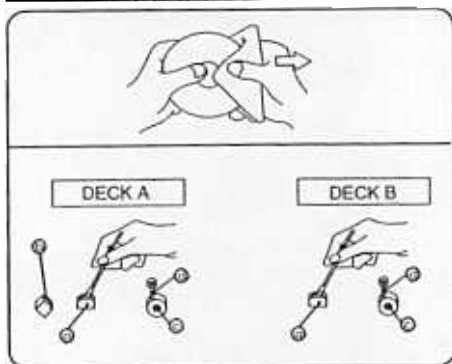| SYMPTOM	CAUSE (AND REMEDY)
GENERAL	
No sound.	• Press the VOLUME UP button. • The headphones are connected. Disconnect them. • Suddenly OFF when playing, the TIMER OFF function are activated. Press the STOP button until the 'TIMER OFF' indicator show on the display.
No sound from one channel or unbalanced left and right volume.	• Check the speaker connections of the inoperative channel.
Reversed left and right sound.	• Check the speaker cord connection and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments.	• Check that the speakers are connected the correct way round.
Severe hum or noise.	• The TV or VCR is too close to the stereo system. Separate the stereo system from the TV or VCR.
RADIO RECEPTION	
The FM STEREO indicator flashes. Severe hum or noise.	• Adjust the antenna wire.
The stereo FM program cannot be received in stereo.	• Set the MODE switch to FM MONO, the FM STEREO light will go out.
CD PLAYER OPERATION	
	• Press the FUNCTION button to select CD mode and press the DISC SKIP button. The door will close.
Play does not start.	• The disc's are not placed correctly. • Dirty disc. • The disc is inserted upside down. • The player is in the pause mode.
Distorted playback or sound loss during CD playback.	• Moisture condensation • CD disc is dirty or scratched.
CASSETTE DECK OPERATION	
Recording cannot be made.	• No cassette in the cassette holder. • The tab is removed from the cassette. • The tape is wound completely.
Recording or playback cannot be made or there is a decrease in sound level.	• Dirty head. • Magnetic build-up on the record/playback head.
Excessive wow or flutter, or sound dropout.	• Contamination of the capstans or pinch rollers.

SPECIFICATIONS

TUNER SECTION	
Frequency range	FM 87.5 - 108 MHz
	AM 530 - 1710 kHz
Antenna	FM: Antenna Pig Tail
	AM: loop antenna

AMPLIFIER SECTION	
Pro Logic Mode	Main 2 x 7W (@THD 10%, at 0dB 1kHz)
	Centre 1 x 7W (@THD 10%, at 0dB 1kHz)
	Rear 2 x 3.5W (@THD 10%, at 0dB 1kHz)
Intermediate distortion	1% at 1kHz.
Power Bandwidth	40Hz to 20kHz (@THD 1%)
Frequeny Response	40Hz to 20kHz, ±3dB
Surround Level Adjustment	±20dB
Center Level Adjustment	±20dB
Sub-Woofer Output (mono)	300mV
Power consumption	46W
Power requirements	AC ~ 120V 60Hz

COMPACT DISC PLAYER SECTION	
Channels	2 channels
S/N ratio	60dB
Wow & Flutter	undetectable
Sampling frequency	44.1 kHz
Quantization	1bit linear/ch
Pick up light source	Semiconductor laser
Pick up wave length	790nm

CASSETTE SECTION	
Track format	4 tracks, 2 channels
Frequency response	Normal tape: 80 - 10,000 Hz
Signal to noise ratio	40 dB (Normal tape)
Wow and flutter	0.35% (WRMS)
Tape speed	4.8cm/sec.
Rewind time	120 sec (C-60)
Fast forward time	120 sec (C-60)
Recording system	AC bias
Erasing system	Magnetic erase
Motor	DC motor x 1
Heads	Record/playback head x 1 (Deck A)
	Erasure head x 1 (Deck A)
	Playback head x 1 (Deck B)

SPEAKERS SECTION	
Main Speakers	6.5 inches cone type woofer, 2.25 inches cone type tweeter
Impedance	8 ohms 10W
Dimensions(WxDxH)	[200mm x 239mm x 325mm] x 2
Weight	2.84 kgs x 2
Centre Speaker	5 inches cone type speaker
Impedance	8 ohms 10W
Dimensions (WxDxH)	179mm x 260mm x 170mm
Weight	1.33 kgs
Surround (Rear) Speakers	5 inches cone type speaker
Impedance	16 ohms 10W
Dimensions (WxDxH)	[114mm x 184mm x 149mm] x 2
Weight	0.63 kgs x 2

COMMON SECTION	
Dimensions (WxDxH)	288mm x 368mm x 304mm
Weight	7.5 kgs

Specifications and external appearance are subject to change without advance notice due to continuous product improvement.