

PHILIPS

FW 850C Mini HiFi System



Instructions for use
Mode d'emploi
Instrucciones de manejo
Bedienungsanleitung
Gebruiksaanwijzing
Istruzioni per l'uso
Bruksanvisning
Brugsanvisning
Käyttöohje
Manual de utilização
Οδηγίες χρήσεως



PHILIPS

English

Français

Español

Deutsch

Nederlands

Italiano

Svenska

Dansk

Svensk

Português

Ελληνικά

Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

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

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or $\frac{1}{2}$) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

Italia

Dichiarazione di conformità'

Si dichiara che l'apparecchio FW850C Philips risponde alle prescrizioni dell'art. 2, comma 1 del D.M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven , il 30/12/1997

Philips Sound & Vision
Philips, Glaslaan 2, SFF 10
5616 JB Eindhoven, The Netherlands.

Norge

Typeskilt finnes på apparatens underside.

Observer: Nettbryteren er sekundert innkoplet. Den innebygde nettdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

INDEX



English	4	English
Français	24	Français
Español	48	Español
Deutsch	70	Deutsch
Nederlands	94	Nederlands
Italiano	116	Italiano
Svenska	138	Svenska
Dansk	158	Dansk
Suomi	180	Suomi
Português	200	Português
Ελληνικά	222	Ελληνικά

CONTENTS

General Information	5	AUX•DVD	18
Safety Information	5	Clock	18
Preparation	6 - 7	Timer	19
Controls	8 - 10	Recording	20 - 21
Operating The System	10 - 12	Maintenance	22
CD	12 - 14	Specifications	22
Tuner	15 - 16	Troubleshooting	23
Tape	17 - 18		

GENERAL INFORMATION

General Information

- *The type plate (which contains the serial number) is located at the rear of the system.*
- *Recording is permissible if copyright or other rights of third parties are not infringed.*
- *This product complies with the radio interference requirements of the European Community.*


Environmental Information

All unnecessary packaging material has been omitted. We have done our utmost to make the packaging easily separable into three mono-materials: cardboard (box), polystyrene foam (buffer) and polythene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Acknowledgement



The Dolby B NR System and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories Licensing Corporation.

Accessories (Supplied)

- Remote control
- Batteries (2 x AAA size) for remote control
- AM loop antenna
- FM antenna wire
- AC power cord

SAFETY INFORMATION

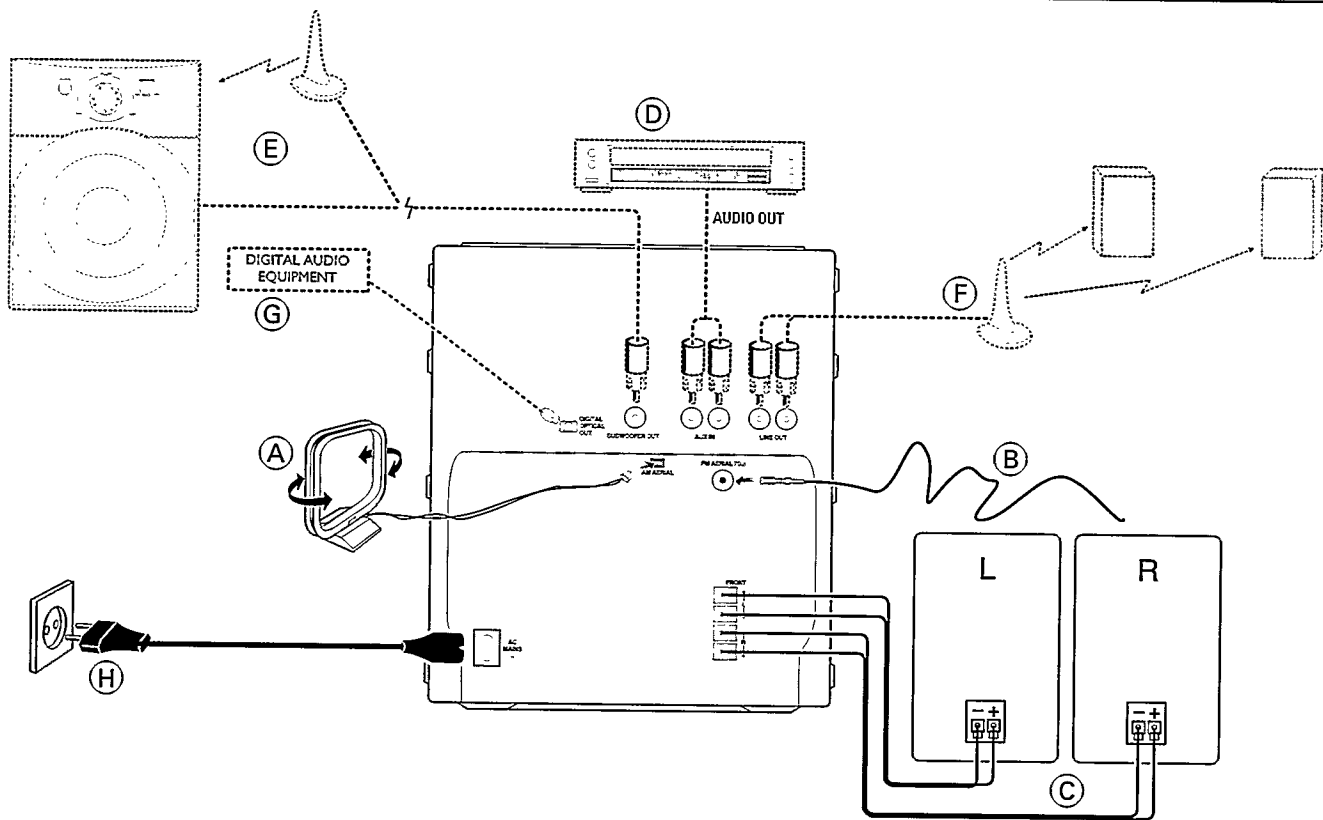
Safety Information

- Before operating the system, check that the operating voltage indicated on the type plate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The type plate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
- The system incorporates a built-in safety feature that prevents overheating.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the unit yourself, as this will invalidate the warranty!
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the CD unit inside the system. Should this occur, the CD player will not operate normally. Leave the power on for about one hour with no disc in the unit until normal playback is possible.
- Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
- **To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

PREPARATION

English

Rear Connections



(A) AM Antenna Connection

Connect the supplied loop antenna to the AM AERIAL terminal. Place the AM loop antenna far away from the system and adjust its position for the best reception.

(B) FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna

For better FM stereo reception connect an outdoor FM antenna to the FM AERIAL 75 Ω terminal using a 75 Ω coaxial wire.

(C) Speaker Connections

- Connect the right speaker to Front terminal R, with the red wire to + and the black wire to -.
- Connect the left speaker to Front terminal L, with the red wire to + and the black wire to -.
- Clip the stripped portion of the speaker wire as shown.



(D) Connecting other equipment to your system

You can connect the audio left and right OUT terminals of a TV, VCR, Laser Disc or DVD player to the AUX IN terminals at the rear of the system.

(E) Subwoofer Out Connection

You can connect either an optional active subwoofer or an optional wireless active subwoofer to the SUBWOOFER OUT terminal. The wireless system uses a radio frequency transmitter. The subwoofer reproduces just the low bass effect (e.g. explosions, the rumble of the spaceships, etc.). Be sure to follow the instructions supplied with the subwoofer unit.

(F) Line Out (wireless ready)

You may install additional front active speakers away from the system (e.g. in another room) to reduce the inconvenience of running long speaker wires across rooms. You can place as many remote speakers as you like provided that they operate at the same radio frequency. Connect the wireless radio frequency transmitter to the LINE OUT terminals. Place the active speakers at your preferred location. Be sure to follow the instructions supplied with the active speakers.

(G) Digital Optical Out

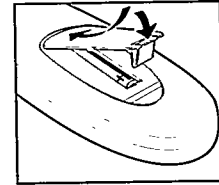
You can record the digital sound from the CD, through this output, on any audio equipment with digital input (e.g. digital amplifier, Digital Audio Tape (DAT) deck, Digital to Analog Converter and Digital Signal Processor). Connect one end of the optical cable (not supplied) to the DIGITAL OPTICAL OUT socket and the other end to the audio equipment with digital input. When the DIGITAL OPTICAL OUT socket is not used, be sure to cover the socket with the supplied dust cap.

(H) AC Power Supply

After all other connections have been made, connect the AC power cord to the system and to the wall outlet.

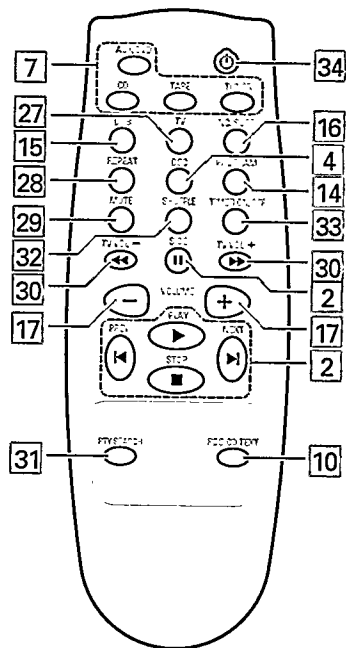
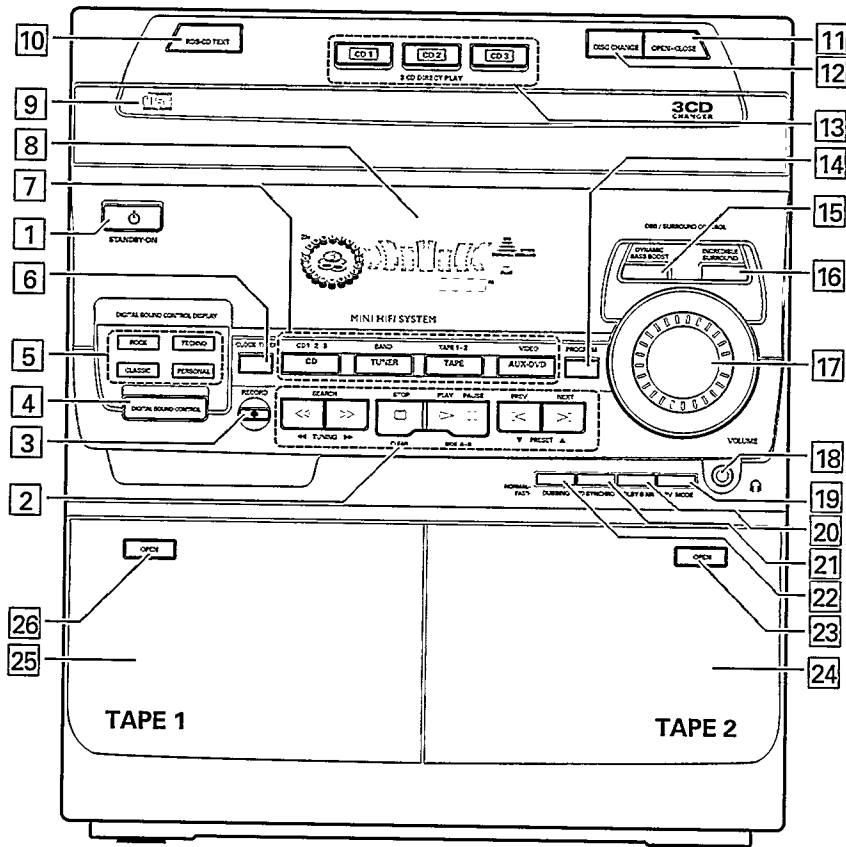
Inserting batteries into the Remote Control

- Insert the batteries (Type R03, UM4 or AAA) into the remote control as shown in the battery compartment.
- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement, use type R03, UM4 or AAA batteries.



CONTROLS

English



Controls on the system and remote control

1 STANDBY-ON

- to switch the system on or to standby mode.

2 MODE SELECTION

SEARCH ◀◀ ▶▶ (TUNING ◀◀ ▶▶)

for CD to search backward/forward.

for TUNER to tune to a lower or higher radio frequency.

for TAPE to rewind or fast forward the tape.

STOP ■ (CLEAR)

for CD to stop CD playback or clear a program.

for TUNER to stop programming.

for TAPE to stop playback or recording.

PLAY PAUSE ▶ II (SIDE A•B)

for CD to start or interrupt playback.

for TAPE to start playback. When playing in tape 2 mode; to change side.

PREV ◀ / NEXT ▶ (PRESET ▲ ▼)

for CD to skip to the beginning of the current or previous/next track.

for TUNER to select a preset radio station in memory.

3 RECORD

- to start recording on tape deck 2.

4 DIGITAL SOUND CONTROL (DSC)

- to select the desired sound effect : OPTIMAL, CLASSIC, ROCK, TECHNO, PERSONAL 1, PERSONAL 2 or PERSONAL 3.

6 DIGITAL SOUND CONTROL DISPLAY PANEL

- to view the selected DSC setting.

6 CLOCK•TIMER

- to view clock, set clock or timer.

7 SOURCE : to select the following. CD / (CD 1•2•3)

- to select CD mode. When CD in stop mode; to select the disc tray 1, 2 or 3.

TUNER / (BAND)

- to select Tuner mode. When in tuner mode; to select the waveband FM, MW or LW.

TAPE / (TAPE 1•2)

- to select Tape mode. When tape in stop mode; to select either tape deck 1 or 2.

AUX•DVD / (VIDEO)

- to select external source (e.g. DVD, TV, Laser Disc or VCR sound).

8 DISPLAY

- to view the current setting of the system.

9 CD CAROUSEL TRAY

10 RDS•CD TEXT

- to select RDS data in the following order: station name, program type, radio text and frequency.
- to view the CD encoded information.

11 OPEN•CLOSE

- to open or close the CD carousel tray.

12 DISC CHANGE

- to change CD(s).

13 3 CD DIRECT PLAY

- to select a CD tray for playback.

14 PROGRAM

- to program CD track in CD mode or preset radio stations in tuner mode.

15 DYNAMIC BASS BOOST (DBB)

- to switch on bass boost to enhance bass response or to switch off bass boost.

16 INCREDIBLE SURROUND

- to switch on or off the surround sound effect.

17 VOLUME

- to adjust the volume level.

18

- to connect headphones jack.

19 REVERSE MODE

- to select the different play mode on tape deck 2 only.

20 DOLBY B NR

- to switch on or off the Dolby B NR mode.

21 CD SYNCHRO

- to synchronise the CD recording on a tape.

22 DUBBING

- to dub a tape in normal or high speed mode.

23 OPEN

- to open tape deck 2.

24 TAPE DECK 2

25 TAPE DECK 1

26 OPEN

- to open tape deck 1.

27 TV (only on the remote control)

- to select TV mode.

28 REPEAT

- to repeat a CD track.

29 MUTE

- to switch off the sound temporarily or to switch on again.

30 TV VOLUME + / - (RC 5 code only)

- to adjust the volume of the television.


31 PTY SEARCH (program type)

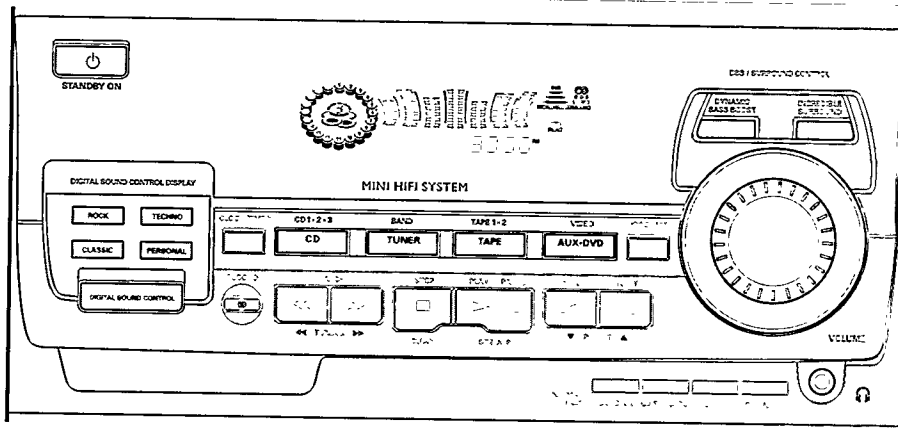
- to search a RDS radio station using program type.

32 SHUFFLE

- to play all the available discs and their tracks in random order.

English

- 33 **TIMER ON/OFF**
- to switch on or off timer.
- 34 
- to switch the system to standby mode.



Important:
Before you begin operating the system, complete the preparation procedures.


Demonstration mode

The system has a demonstration mode that shows the various features offered by the system. **Whenever the system is switched on from the wall socket, the demonstration mode will start automatically.**

Note:

- During demonstration mode, if you press any source (or standby-on) button, the system will switch to the respective (or standby) mode.
- When the system is switched to standby mode, 5 seconds later, the demonstration mode will begin again.

To cancel demonstration mode

- Press and hold **STOP**  (on the system only) for **3 seconds** to stop the demonstration.
 - The demonstration mode will be switched off permanently.
 - The system will switch to standby mode. About 5 seconds later, the system will go into an economy power conservation mode.



Switching the system ON

- Press **STANDBY•ON** (on the system only), **CD**, **TUNER**, **TAPE** or **AUX•DVD**.

You can also switch on the system by pressing any one of the 3 CD DIRECT PLAY buttons.

Notes for remote control:

- First select the source you wish to control by pressing one of the source select keys on the remote control (e.g. CD, TUNER, TAPE, AUX/DVD or TV).
- Then select the desired function (PLAY, NEXT, etc.).

Switching the system to standby mode

- Press **STANDBY•ON** again.
 - The system will switch to standby mode. About 5 seconds later, the system will go into an economy power conservation mode (< 2 watts).
 - The display will not be lighted except the **STOP** ■ button on the system.

Selecting the Source

- Press the respective source selection button: **CD**, **TUNER**, **TAPE** or **AUX•DVD**.
 - The display indicates the selected source.

Note:


- For an external source, make sure that you have connected the audio left and right **OUT** terminals of the external equipment (TV, VCR, Laser Disc or DVD player) to the **AUX IN** terminals.

Sound Control

Volume Adjustment

Rotate **VOLUME** right or left to increase or decrease the sound level.

For Personal Listening

Connect the headphones plug to the  socket at the front of the system. The speakers will be muted.

Incredible Surround

Normal stereo sound is determined by the distance between the front speakers. When Incredible Surround is switched on, it magnifies the virtual distance between the front speakers for an incredibly wide, enveloping, stereo effect.

- Press **INCREDIBLE SURROUND** to switch on.
 - The **INCREDIBLE SURROUND** button lights up.
 - "INCREDIBLE SURROUND" will be displayed.

To switch off Incredible Surround

- Press **INCREDIBLE SURROUND** again.
 - The **INCREDIBLE SURROUND** button light is switched off.
 - "IS OFF" will be displayed.

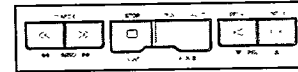
Digital Sound Control (DSC)

The DSC feature enables you to enjoy special sound effects that have preset equalizer settings, providing the best music reproduction.

- Press **DIGITAL SOUND CONTROL (DSC)** to select **OPTIMAL**, **CLASSIC**, **ROCK**, **TECHNO** or **PERSONAL (1, 2, 3)**.
 - The Digital Sound Control display panel will light up respectively. At **OPTIMAL** setting, the DSC display panel does not light up.
 - "OPTIMAL, CLASSIC, ROCK, TECHNO, PERSONAL 1, PERSONAL 2 or PERSONAL 3" will be displayed.

Personal Setting allows you to store up to 3 preferred settings for bass and treble.

To set personal setting



- 1 Select Personal 1, 2, or 3.
- 2 Press and hold **DSC** button for 3 seconds.
 - The personal setting mode is switched on.
 - "ADJUST BASS AND TREBLE" will be displayed.
- 3 Press **◀** or **▶** to adjust the bass.
 - "BASS -XXX or +XXX" will be displayed.
- 4 Press **◀** or **▶** to adjust the treble.
 - "TREBLE -XXX or +XXX" will be displayed.
- 5 Press **DSC** again to confirm.

Note:

- "XXX" denotes the sound level.

Automatic DSC-DBB selection

The best setting for the **DBB** is automatically generated for the respective **DSC** selection. You can also manually select the **DBB** setting that best suits your listening environment.

DSC Selection	DBB Selection
Optimal	Punch
Classic	Beat
Rock	Blast
Techno	Blast

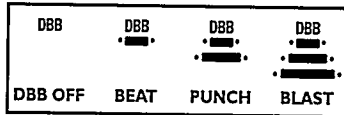
OPERATING THE SYSTEM

English

Dynamic Bass Boost (DBB)

There are 3 settings for the DBB mode to enhance the bass response.

- Press **DBB** briefly to select the various level of bass boost.
 - The DBB button lights up.
 - "BEAT, PUNCH or BLAST" will be displayed.



To switch off DBB

- Press **DBB** briefly until the DBB button light is switched off.
 - "DBB OFF" will be displayed.

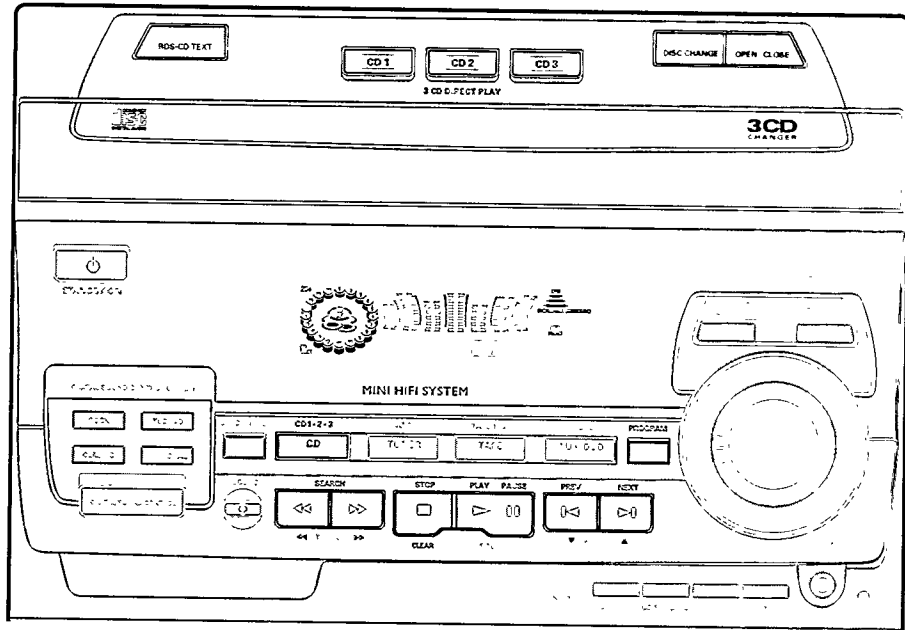
Note:

- Some CDs or tapes might be recorded in high modulation. It may cause a distortion at high volume. Should this occur, it is advisable to switch off Incredible Surround, select a lower DBB level or reduce the volume.

Mute (only on remote control)

This feature allows you to temporarily switch off the sound of the system without switching off the system when you require a moment of silence.

- Press **MUTE** on the remote control to switch off the sound.
 - "MUTE" will be displayed.
- Press **MUTE** again on the remote control or increase the **VOLUME** level to switch on the sound.



Warning!

- This system is designed for conventional CDs. Do not use any accessories like disc stabilizer rings or CD treatment sheets, etc., which may damage the CD mechanism.
- Do not load more than one disc into each tray.
- When the CD changer is loaded with CD(s), do not turn over or shake the system. This may jam the changer mechanism.

You can load up to three discs in the CD changer for continuous playback without interruption.

Loading the CD Changer

- 1 Press **CD** to select CD mode.
- 2 Press **OPEN•CLOSE**
 - The CD compartment slides out.
- 3 Load a CD with the printed side up in the right tray.
 - You can load another disc in the left tray.
 - To load the third disc, press the **DISC CHANGE** button.
 - The CD changer carousel will rotate until the empty tray is at the right hand side and is ready for loading.
 - Playback will always start with the disc in the outer right disc tray.
- 4 Press **OPEN•CLOSE** to close the CD compartment.
 - The total number of tracks and playing time of the last selected disc appear on the display.

CD Text

It will enable you to know which album and its track you are selecting or playing on specially encoded CD.

- Press **RDS•CD TEXT**.
 - At stop mode*
 - The title of album or total playing time will be displayed.
 - During Playback*
 - The title of album, track title or elapsed time will be displayed.
- If the album and track title are not known.
 - "NO TEXT ON DISC" will be displayed.

3 CD Direct Play

You can play a CD directly by pressing the **3 CD DIRECT PLAY (1 - 3)** buttons. The CD player will stop at the end of playback of the selected disc.

- When the button is green, it indicates that there is no disc loaded in the disc tray.
- When the button is red, it indicates that there is a disc loaded in the disc tray.

Playing a CD

- 1 Press **PLAY ►** to start playback.
 - The disc tray, track number and elapsed playing time of the current track appear on the display.
 - The current track number will also be flashing on the circular music calendar.
 - When a track has been played, the track number will be erased from the circular music calendar.
- To interrupt playback, press **PAUSE II**.
 - The playing time flashes.
- To resume playback, press **PLAY ►** again.
- 2 To stop playback, press **STOP ■**.

Note:

- *All the available discs will be played once, then stop. When the CD has stopped playing, the system will switch to the standby mode after 15 minutes if no button is pressed.*

Disc Change

You can change the outer 2 discs while the third inner disc is at the stop or playing mode.

- 1 Press **DISC CHANGE**.
 - The CD compartment slides out.
- 2 Replace the discs in the left and right disc trays.
 - If you press **DISC CHANGE** again during playback, the CD will stop playing.
 - The CD carousel will rotate until the inner tray is at the right hand side and is ready for changing
- 3 Press **OPEN•CLOSE** to close the CD compartment.

Selecting a desired track

Selecting a desired track at the stop mode

- 1 Press **PREV ◀** or **NEXT ▶** until the desired track appears on the display.
- 2 Press **PLAY ►** to start playback.
 - The selected track number and elapsed playing time appear on the display.

Selecting a desired track during playback

- 1 Press **PREV ◀** or **NEXT ▶** until the desired track appears on the display.
 - The selected track number and elapsed playing time appear on the display.
- If you press **PREV ◀** once it will skip to the beginning of the current track and play the track again.

Searching for a particular passage during playback

- Press and hold ◀◀ or ▶▶ until the desired passage is located.
 - The volume will be reduced.
- Play returns to normal when ◀◀ or ▶▶ is released.

Programming Tracks

Programming tracks of a loaded CD is possible in the stop mode. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL".

- 1 Load the desired discs in the disc trays.
- 2 Press **PROGRAM** to start programming.
 - The PROGRAM flag starts flashing.
- 3 Press the **CD (CD 1•2•3)** button to select the disc.
- 4 Press **PREV ◀** or **NEXT ▶** to select the desired track.
- 5 Press **PROGRAM** to store the track.
 - Repeat steps 3 to 5 to store other discs and tracks.
- 6 Press **STOP ■** once to end programming mode.
 - The total number of tracks programmed and total playing time appear on the display.

Notes:

- If the total playing time is more than "99:59" or if one of the programmed tracks has a number greater than 30, then "--:--" appears in the display instead of the total playing time.

- During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.

Playing the program

- 1 Press **PLAY ▶** to start program playback.
 - "PLAY PROGRAM" appears on the display.
 - The track number and elapsed playing time of the current track will appear on the display.
- If you press **REPEAT** during program playback, the current track will be played repeatedly.
 - The REPEAT and PROGRAM flags will be displayed.
- 2 Press **STOP ■** to stop program playback.

Note:

- If you press any of the 3 CD DIRECT PLAY buttons, the system will play the selected disc or track and the stored program will be ignored temporarily. The PROGRAM flag will also temporarily disappear from the display and then reappear, when the playback for the selected disc ends.

Reviewing the program

Reviewing of the program is only possible in the stop mode.

- Press **PREV ◀** or **NEXT ▶** repeatedly to review the programmed tracks.
- Press **STOP ■** to exit review mode.

Erasing the program (in the stop mode)

- Press **CLEAR** on the system.
 - "PROGRAM CLEARED" will be displayed.

Note:

- The program is also erased when the system is disconnected from the power supply. If the CD carousel is opened, the tracks belonging to the outer two trays will be erased and the display will show "CLEARED".

Shuffle (only on remote control)

It will play all the available discs and their tracks in random order. Shuffle can also be used when tracks are programmed.

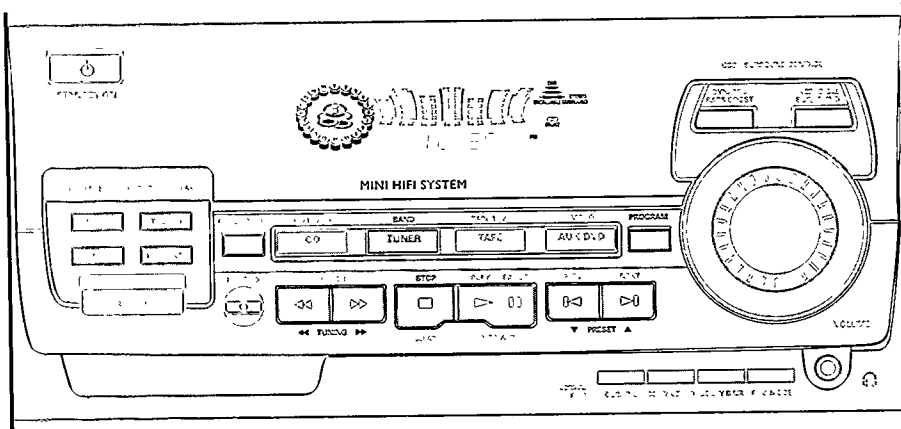
To shuffle all the discs and tracks

- 1 Press **SHUFFLE**.
 - "SHUFFLE" will be displayed.
 - The SHUFFLE flag, the disc and the track selected at random appear on the display.
- The discs and the tracks will now be played in random order until you press **STOP ■**.
- If you press **REPEAT** during shuffling, the current track will be played repeatedly.
 - The REPEAT and SHUFFLE flags will be displayed.
- 2 Press **SHUFFLE** again to resume normal playback.
 - The SHUFFLE flag disappears from the display.

Repeat (only on remote control)

It will play the current track repeatedly

- 1 Press **REPEAT** during CD playback.
 - "REPEAT TRACK" will be displayed.
 - The REPEAT flag appears on the display.
- The track will be played repeatedly until you press **STOP ■**.
- 2 Press **REPEAT** again to resume normal playback.
 - The REPEAT flag disappears from the display.



Tuning to radio stations

- 1 Press **TUNER** to select TUNER mode.
→ "TUNER" will be displayed.
A few seconds later, the current frequency or the radio station name if available will be displayed.
 - 2 Press **TUNER (BAND)** again to select the desired waveband : FM, MW or LW.
 - 3 Press **TUNING** ◀◀ or ▶▶ for more than one second, then release.
→ The display will show 'SEARCH' until a station with sufficient signal strength is found.
- Repeat this procedure until the desired station is reached.
 - To tune to a weak station, briefly press **TUNING** ◀◀ or ▶▶ until the display shows the desired frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 40 stations in the memory. When a preset radio station is selected, the preset number appears next to the frequency on the display.

Automatic programming

- 1 Press **TUNER**.
- 2 Press **TUNER (BAND)** again to select the desired waveband : FM, MW or LW.
- 3 Press **PROGRAM** for more than one second.
→ PROGRAM flag starts flashing and 'AUTO' will be displayed.
→ Every available radio station for the selected waveband will be stored automatically. The frequency and preset number will be displayed briefly.

- The system will stop searching when all the available radio stations are stored or when the memory for 40 preset radio stations is used.
- The system will remain tuned to the last stored preset radio station.

- Repeat the above procedure to store other preset stations for the other waveband. Remember to select the next available preset number before proceeding. If not, some of the preset radio stations may be erased.

Notes:

- You can cancel the automatic programming by pressing **PROGRAM** or **STOP** ■ (on the system only).
- If you want to reserve a section of preset numbers, for example preset numbers 1 to 9, select preset 10 before starting automatic programming; now only the preset numbers 10 to 40 will be programmed.

Manual programming

- 1 Press **TUNER**.
 - 2 Press **TUNER (BAND)** to select the desired waveband : FM, MW or LW.
 - 3 Press **PROGRAM** for less than one second.
→ The PROGRAM flag starts flashing.
→ The next available preset number will be displayed for selection.
 - 4 Press **TUNING** ◀◀ or ▶▶ to tune to the desired frequency.
- If you wish to store the radio station to another preset number, press **PRESET** ▼ or ▲ to select the desired preset number.
- 5 Press **PROGRAM** again.
→ PROGRAM flag will stop flashing, and the station will be stored.

TUNER

English

- Repeat the above procedure to store other preset stations.

Notes:

- Press **STOP** ■ (on the system only) to cancel programming.
- During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.


Tuning to Preset Radio Stations

- Press **PRESET** ▼ or ▲ to select the desired preset number or you can key in the preset number directly from the remote control.
 - The preset number, frequency and waveband appear on the display

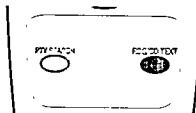
Receiving RDS Radio Station

RDS (Radio Data System) is a broadcasting service that allows FM stations to send additional information along with the regular FM radio signal. This additional information can contain:

- **STATION NAME:** The station name is displayed.
- **FREQUENCY:** The frequency of the station is displayed
- **PROGRAM TYPE:** The following program types exist and can be received by your tuner: News, Affairs, Info, Sport, Educate, Drama, Culture, Science, Varied, Pop M, Rock M, M.O.R. (middle of the road music), Light M, Classics, Other M, No type.
- **RADIO TEXT (RT):** text messages appear in the display.

When you have tuned to a RDS station, the RDS logo  and the station name will appear on the display:

- The display normally shows the radio station name if available. By repeatedly pressing **RDS•CD TEXT** button you can change the type of display information:



- The display shows in turn:
 STATION NAME → PROGRAM TYPE →
 RADIO TEXT → FREQUENCY →
 STATION NAME ...

Note:

- When you press the **RDS•CD TEXT** button and the display shows **NO RDS**, it indicates that either the tuned station is not transmitting RDS signal or it is a non RDS station.

RDS Clock

Some RDS station may be transmitting a real clock time at an interval of every minute.

Setting the time with RDS clock

- 1 Press **CLOCK•TIMER**.
→ " - - - - " or current time appears on the display.
- 2 Press **CLOCK•TIMER** once more to enter clock setting mode.
→ "00:00" or current time starts flashing.
- 3 Press **RDS•CD TEXT**.
→ The message "SEARCH RDS TIME" will be displayed.

- If the station does not transmit RDS clock, **NO RDS TIME** will be displayed.
- When the RDS clock is read, **RDS TIME** will be displayed. The current clock time is displayed for 2 seconds and will be stored automatically.
- If within 90 seconds, the RDS time is not detected, **NO RDS TIME** will be displayed.

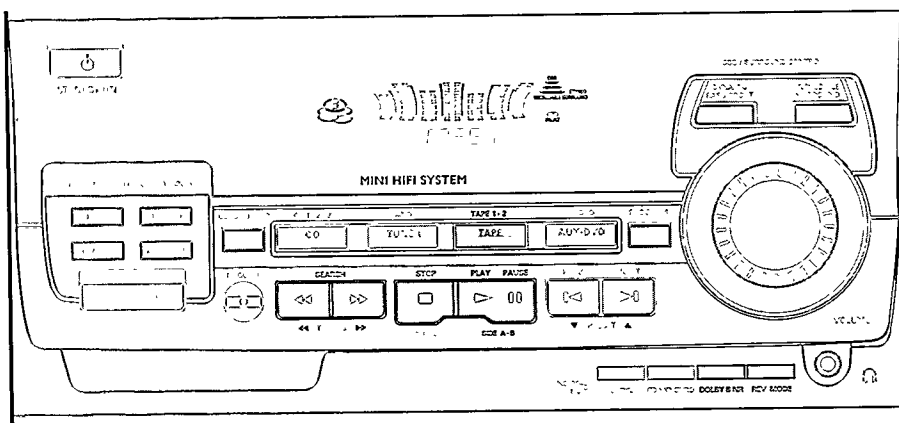
Program Type (only on remote control)

You can activate the PROGRAM TYPE function only in the Tuner mode. Once the program type is detected in a RDS station, it will switch to the radio station automatically

- 1 Press **PTY SEARCH** (Program Type) on the remote control.

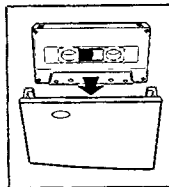


- The following program types exist and can be received by your tuner: News, Affairs, Info, Sport, Educate, Drama, Culture, Science, Varied, Pop M, Rock M, M.O.R. (middle of the road music), Light M, Classics, Other M, No type.
- 2 Press **◀** or **▶** on the system to select the desired program type.
 - 3 Press **PTY SEARCH** on the remote control again to confirm the selection.
 - It will search for the first available RDS station with the selected program type.
 - If no RDS station is found with the selected program type, the display will show "TYPE NOT FOUND".



Loading a tape

- Press **OPEN**.
- The tape deck door opens.
- Load the tape with the open side downward and the full spool to the left.
- Close the tape deck door.



Tape Playback

- 1 Press **TAPE** to select TAPE mode.
→ "TAPE 1" or "TAPE 2" will be displayed.
- Press **TAPE** again to select either tape deck 1 or tape deck 2.
- 2 Load the tape into the selected tape deck.
- 3 Press **PLAY** ► to start playback.

3a (For Tape Deck 2 only)

Press **SIDE A•B** to switch playback between sides A and B.

→ The **FRONT** or **BACK** flag appears in the display, depending on the side selected.

3b (For Tape Deck 2 only)

Press **REV MODE** to select the different type of play mode (see auto reverse playback).

- 4 Press **STOP** ■ to end playback.

Notes:

- To change side before playback begins, use the **SIDE** button on the remote control.
- When the tape has stopped playing, the system will switch to the standby mode automatically after 15 minutes if no button is pressed.

Auto Reverse Playback (only on tape deck 2)

- Press **REV MODE** to select the different play modes.
 - ▭ recording or playback on one side of the tape. The tape stops at the end of one side.
 - ⌋ recording or playback on both sides of the tape. The tape then stops.
 - ∞ continuous playback on both sides of the tape up to a maximum of 20 times per side unless you press **STOP** ■.

Rewind/Fast Forward

At the stop mode

- 1 You can rewind or fast forward the tape by pressing ◀◀ or ▶▶ respectively.

→ "TAPE 1 XXXX" or "TAPE 2 XXXX" will be displayed, depending on which tape deck is selected.

→ The tape will stop automatically at the end of rewinding or fast forwarding.

- 2 Press **STOP** ■ to stop rewind or fast forward.

During playback

- Press and hold ◀◀ or ▶▶ respectively until the desired passage is located.
 - During searching, the sound is reduced to a low volume.
 - When you release ◀◀ or ▶▶, the tape continues playing.

Notes:

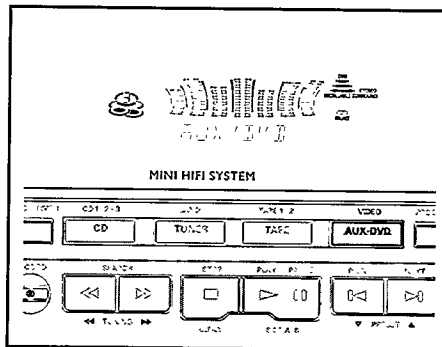
- During rewinding or fast forwarding a tape; it is possible to select another source (e.g. CD, TUNER or AUX•DVD). "XXXX" denotes the counter number.
- Check and tighten slack tape before use with a pencil. Slack tape may get jammed or may burst in the mechanism.
- C-120 tape is extremely thin and is easily deformed or damaged. It is not recommended for use in this system.
- Store the tapes at room temperature and do not put them too close to a magnetic field (for example, transformer, TV or loudspeaker boxes).

Dolby B Noise Reduction System

- 1 Press **DOLBY B NR** to switch on Dolby B NR.
→ The **DB NR** appears in the display.
- 2 Press **DOLBY B NR** again to switch off Dolby B NR.
→ The **DB NR** disappears from the display.

Note:

- A tape recorded with the Dolby B NR system should also be played in the Dolby B NR mode. If you forget to operate the **DOLBY NR** button, the treble may be reproduced too strongly.

**Selecting External Equipment**

If you have connected the audio out terminals of the external equipment (TV, VCR, Laser Disc or DVD player) to the AUX IN terminals, you can hear the sound from the system.

- Press **AUX•DVD** to select the external mode.
→ "AUX•DVD" will be displayed.

Note:

- All the sound control features (e.g. DSC, DBB, etc.) are available for selection.

View Clock

You can view the clock (if it is set) at standby or any source. It will be displayed for about seven seconds.

- Press **CLOCK•TIMER** briefly.
→ "10:25" (the current time) will be displayed
→ "----" will be displayed if the clock is not set.

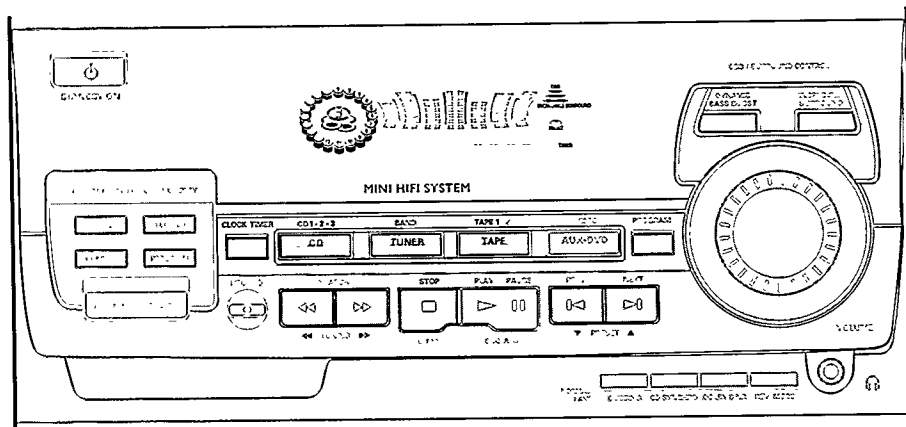
Clock Setting

The clock is set in 24-hour mode, e.g. "00:00" or "23:59". Before setting the clock, you must be in the View Clock mode.

- 1 Press **CLOCK•TIMER** to select clock mode.
→ "00:00" or the current time starts flashing.
 - 2 Set the hour with **◀◀** or **▶▶**.
 - 3 Set the minute with **◀** or **▶**.
 - 4 Press **CLOCK•TIMER** again to store the setting.
→ The clock starts running.
- To exit without storing the setting, press **STOP** ■.

Notes:

- During clock setting, if no button is pressed within 90 seconds, the system will exit clock setting mode automatically.
- When a power interruption occurs, the clock setting is erased.
- To set the time with RDS clock, see "Receiving RDS Radio Station" under **TUNER** section.



Timer Setting

- The system can switch on to CD, TUNER or TAPE 1 mode automatically at a preset time. It can serve as an alarm to wake you up. After half an hour from the preset time, the system will return to the standby mode if no button is pressed.
- Before setting the timer, make sure the clock is set correctly.
- The timer has to be reset or start again for each subsequent preset time.
- **The volume of the timer will be at the last setting before the set is switched to standby mode.**

- 1 Press and hold **CLOCK•TIMER** for more than 2 seconds to select timer mode.
→ "00:00" or the last set timer starts flashing.
→ The **TIMER** flag starts flashing.
→ The last selected timer source will be lighted in green while the other available sources are flashing.
- 2 Press **CD**, **TUNER** or **TAPE 1** to select the desired source.
→ The selected timer source will be lighted in green.
- 3 Press **◀◀** or **▶▶** to set the hour for the timer to start.
- 4 Press **◀** or **▶** to set the minute for the timer to start.

- 5 Press **CLOCK•TIMER** to store the start time and the selected source.
→ The **TIMER** is now set.
→ The **TIMER** flag remains on the display.
- To exit without storing the setting, press **STOP** ■.
- At the preset time, the **TIMER** will be activated.
→ The selected source will be played.
→ The **TIMER** flag disappears from the display.

Notes:

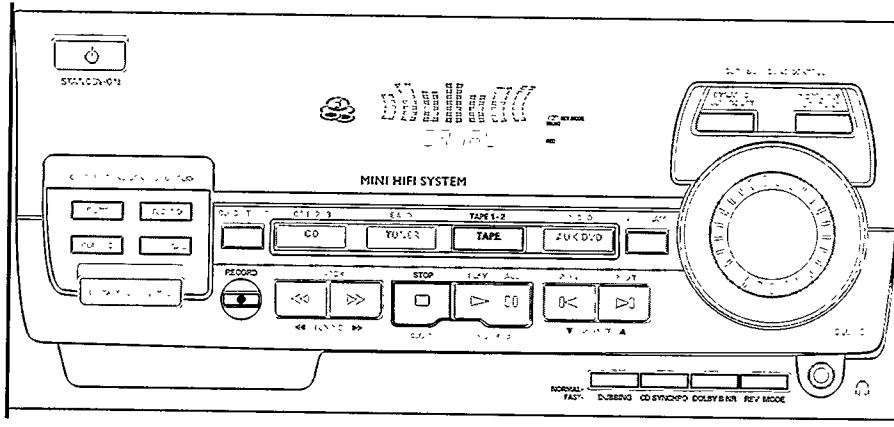
- During timer setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.
- If the source selected is **TUNER**, the last tuned frequency will be switched on.
- If the source selected is **CD**, playback will begin with the first track of the last selected disc. If the CD trays are empty, the **TUNER** will be selected instead.
- If the source selected is **TAPE 1**, and if the preset time is reached during high speed dubbing, the **TUNER** source will be selected instead.

To stop the **TIMER**

- Press **TIMER ON/OFF** on the remote control.
→ The **TIMER** is now switched off.
→ The **TIMER** flag disappears.

To start the **TIMER** again (for the same time)

- Press **TIMER ON/OFF** on the remote control.
→ The **TIMER** flag is displayed.



Notes:

- For recording, use only tape of IEC type I (normal tape) or IEC type II (Chrome).
- The tape is secured at both ends with leader tape. At the beginning and end of tape, nothing will be recorded for six to seven seconds.
- The recording level is set automatically, regardless of the position of VOLUME, DBB or Incredible Surround. Dolby B NR can be selected for Tuner or CD recording.
- To prevent accidental recording, break out the tab on the left shoulder of the tape side you want to protect.
- If "CHECK TAPE" is displayed, the protection tab has been broken. Put a piece of clear adhesive tape over the opening. Do not cover the Chrome tape detection hole when covering the tab opening.

One Touch Recording

- For One Touch Recording, as soon as you press RECORD, the current source (CD, TUNER, TAPE 1 or AUX+DVD) will be recorded on tape deck 2

- 1 Load a blank tape in tape deck 2.
- 2 Press **RECORD** ● .
→ The REC flag is displayed.
- 3 Press **STOP** ■ to stop recording.

Note:

- When you press RECORD at TAPE 2 mode, "SELECT SOURCE" will be displayed. One Touch Recording is not possible at TAPE 2 mode.



Recording from other sources (only on tape deck 2)

- 1 Press **TAPE** to select tape deck 2.
- 2 Load a blank tape into tape deck 2 with the open side downward.
- 3 Press **SIDE** on the remote control to select the recording side.
→ The FRONT or BACK flag will be displayed, depending on the side selected
- 4 Press **REV MODE** to select the playback mode (or)
- 5 Press **DOLBY NR** to record with Dolby NR (except TAPE 1 mode).
- 6 Press **CD, TUNER, TAPE 1** or **AUX+DVD**
• Start playback of the selected source.
- 7 Press **RECORD** ● to start recording.
→ The REC flag is displayed.
- 8 Press **STOP** ■ to stop recording.


Notes:

- Only or mode is available during recording
- During recording, it is not possible to listen to another sound source.

Dubbing tapes (from tape deck 1 to tape deck 2)

- 1 Press **TAPE** to select tape deck 2.
- 2 Load the prerecorded tape into tape deck 1 and a blank tape into tape deck 2.
- 3 Press **SIDE** on the remote control to change the desired direction of the play mode.
 - The **FRONT** or **BACK** flag will be displayed, depending on the side selected.
- 4 Press **REV MODE** to select the play mode ( for tape deck 2.
- 5 Press **DUBBING** *once* for normal speed dubbing or *twice* for high speed dubbing.
 - Both the tapes in deck 1 and 2 will start rewinding to the front automatically.
 - Dubbing will start immediately after both tapes have finished rewinding.
 - "NORMAL" (normal speed) or "FAST" (high speed) will be displayed.
 - HSD appears on the display for high speed dubbing.
 - The REC flag is displayed.
- 6 Press **STOP**  to stop dubbing.




Notes:

- "000" denotes the counter number.
- Only  mode is available during dubbing.
- At the end of side A, flip the tapes to side B and repeat the procedure.
- Dubbing of tapes is only possible from tape deck 1 to tape deck 2.
- To ensure good dubbing, use tapes of the same length.
- During high speed dubbing in Tape mode, the sound is reduced to a low volume.

- You can switch to other sound source while dubbing.
- Dolby NR button has no influence during dubbing (dubbing from tape deck 1 to tape deck 2). An original tape recorded with Dolby B NR automatically produces a copy with Dolby B NR.

CD Synchro Start Recording

During CD synchro start recording,

- It is not advisable to fast forward/rewind your tape in tape deck 1.
 - It is not possible to listen to another source.
- 1 Press **CD**.
 - 2 Load a disc into the disc tray.
 - 3 You can program the tracks in the order you want them to be recorded (see Programming Tracks). If not, the tracks are recorded according to the selected disc.
 - 4 Press **TAPE** to select tape deck 2.
 - 5 Load a blank tape (full spool to the left) into tape deck 2.
 - 6 Press **SIDE** on the remote control to change the desired direction of the play mode.
 - The **FRONT** or **BACK** flag will be displayed, depending on the side selected.
 - 7 Press **REV MODE** to select the play mode ( or ) for tape deck 2.
 - 8 Press **DOLBY NR** to record with Dolby NR.
 - 9 Press **CD SYNCHRO** to start recording.
 - The REC flag is displayed.
 - After about seven seconds, the CD will start playing. This is to prevent recording on the leader tape at the beginning of the tape.
 - 10 Press **STOP**  to stop recording CD playback.

English

Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analog records.



Cleaning the CD lens

After prolonged usage, dirt or dust may accumulate at the CD lens. To ensure good playback quality, clean the CD lens with Philips CD Lens Cleaner or any commercially available. Follow the instructions supplied with the Lens Cleaner.

Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads, the capstan(s), and pressure roller(s) after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape through once.

Demagnetizing the heads

- Use a demagnetizing tape available at your dealer.

Specifications

AMPLIFIER

Output power	
Music Power	
Stereo Mode	2 x 260 W
RMS (1)	
Stereo Mode	2 x 130 W, 6 Ω, 1 kHz, THD 10%
(1) ±1dB	
Signal-to-noise ratio	≥ 75 dBA (IEC)
Frequency response	40 – 20000 Hz, ±3dB
Input sensitivity	
Aux In	350 mV
Output	
Speakers (Left/Right)	≥ 6 Ω
Headphones	32 Ω – 1000 Ω
Subwoofer Out	> 20000 Ω
Line Out	> 20000 Ω
Digital Optical Out	IEC 958, TOSLINK, 44.1 kHz

CD PLAYER

Number of programmable tracks	40
Frequency range	20 – 20000 Hz
Signal-to-noise ratio	> 76 dB
Channel separation	79 dB (1 kHz)
Total harmonic distortion	0.02 % (1 kHz)

TUNER

FM wave range	87.5 – 108 MHz
MW wave range	531 – 1602 kHz
LW wave range	153 – 279 kHz
Tuning Grid	9 kHz
Number of presets	40
Antenna	
FM	75 Ω wire
AM	Loop Antenna

TAPE DECKS

Frequency response	
Chrome tape (type II)	60 – 15000 Hz (5 dB)
Normal tape (type I)	60 – 15000 Hz (5 dB)
Signal-to-noise ratio (without Dolby NR)	
Chrome tape (type II)	50 dB
Normal tape (type I)	47 dB
Signal-to-noise ratio (with Dolby NR)	
Chrome tape (type II)	62 dB
Normal tape (type I)	58 dB
Wow and flutter	≤ 0.35% DIN

SPEAKERS (Front Left/Right)

System	shielded 3-way; 2 bass port + 1G-bass port
Impedance	6 Ω
Woofer	1 x 6.5" G-Cone
Tweeter	1 x 2.5" Gradually cooled ferro-fluid
Tweeter	1 x 1" Polydome
Dimensions (w x h x d)	240 x 310 x 300 mm
Weight	4.89 kg each

GENERAL INFORMATION

Material/Finish	Polystyrene/Almetal
Mains	220 - 230 V / 50 Hz
Power Consumption	
Active	145 W
Standby	< 18 W
Standby (economy power conservation mode)	< 2 W
Dimensions (w x h x d)	265 x 310 x 365 mm
Weight (without speakers)	10.4 kg

Subject to modification

Warning! Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty.

- If a fault occurs, check the points listed below before taking the system for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

CD Player Operation

"NO DISC" is displayed.

- The disc is inserted upside down.
- Place CD with printed side up.
- Moisture condensation at the lens.
- Wait until lens has adjusted to normal room temperature.
- There is no disc in the CD tray.
- Insert a CD.
- The CD is dirty, badly scratched or warped.
- Clean or replace the CD.
- The CD lens is dirty or dusty.
- See section under Maintenance.

Radio Reception

Poor radio reception

- The signal strength is too weak.
- Adjust the antenna.
- The TV or VCR is too close to the stereo system.
- Separate the stereo system from the TV or VCR.
- Connect an external antenna for better reception.

Tape Deck Operation

"RECORDING ACTIVE" is displayed.

- A recording is in progress.
- Stop the recording or wait until it is finished.

"TAPE DUBBING ONLY" is displayed.

- Tape dubbing is only possible in tape mode.
- Switch source to tape mode.

Recording or playback cannot be made or there is a decrease in audio level.

- Dirty tape heads, capstans or pressure rollers.
- See section on tape deck maintenance.
- Magnetic build-up in the record/playback head.
- Use demagnetizing tape.

General

System switches to standby mode automatically

- The system is operating in an extremely hot environment or internal heat build-up is high.
- This is not a malfunction. The system incorporates a built-in safety feature that prevents overheating.
- Let the system cool down, then switch on again.

System does not react when any button is pressed.

- Electrostatic discharge.
- Press STANDBY-ON to switch the unit off; Remove the AC power plug from the wall outlet, then reconnect and switch on the system again.

No or poor sound.

- Volume is not turned up.
- Adjust VOLUME.
- The headphones are connected.
- Disconnect the headphones.
- Speakers are not connected or are connected wrongly.
- Check that the speakers are connected correctly.
- Make sure that the stripped speaker wire is clamped.

Reversed left and right sound.

- Speakers are incorrectly connected.
- Check the speaker connections and location.

Lack of bass sound or apparently imprecise physical location of musical instruments.

- Speakers are incorrectly connected.
- Check the speaker connection for proper phasing, red/black wires to red/black terminals.

Remote control has no effect on the system.

- The distance to the system is too large.
- Reduce the distance.
- Batteries are inserted incorrectly.
- Insert the batteries with their polarities (+/- signs) as indicated.
- Batteries are exhausted.
- Replace the batteries.
- Wrong source is selected.
- Select the source (CD, TUNER, etc.) before pressing the function button, (PLAY, PREV/NEXT, etc.).

Timer not working.

- Timer is not switched on.
- Press TIMER ON/OFF on remote control to switch on the timer.
- Dubbing/recording is in progress.
- Stop dubbing/recording.

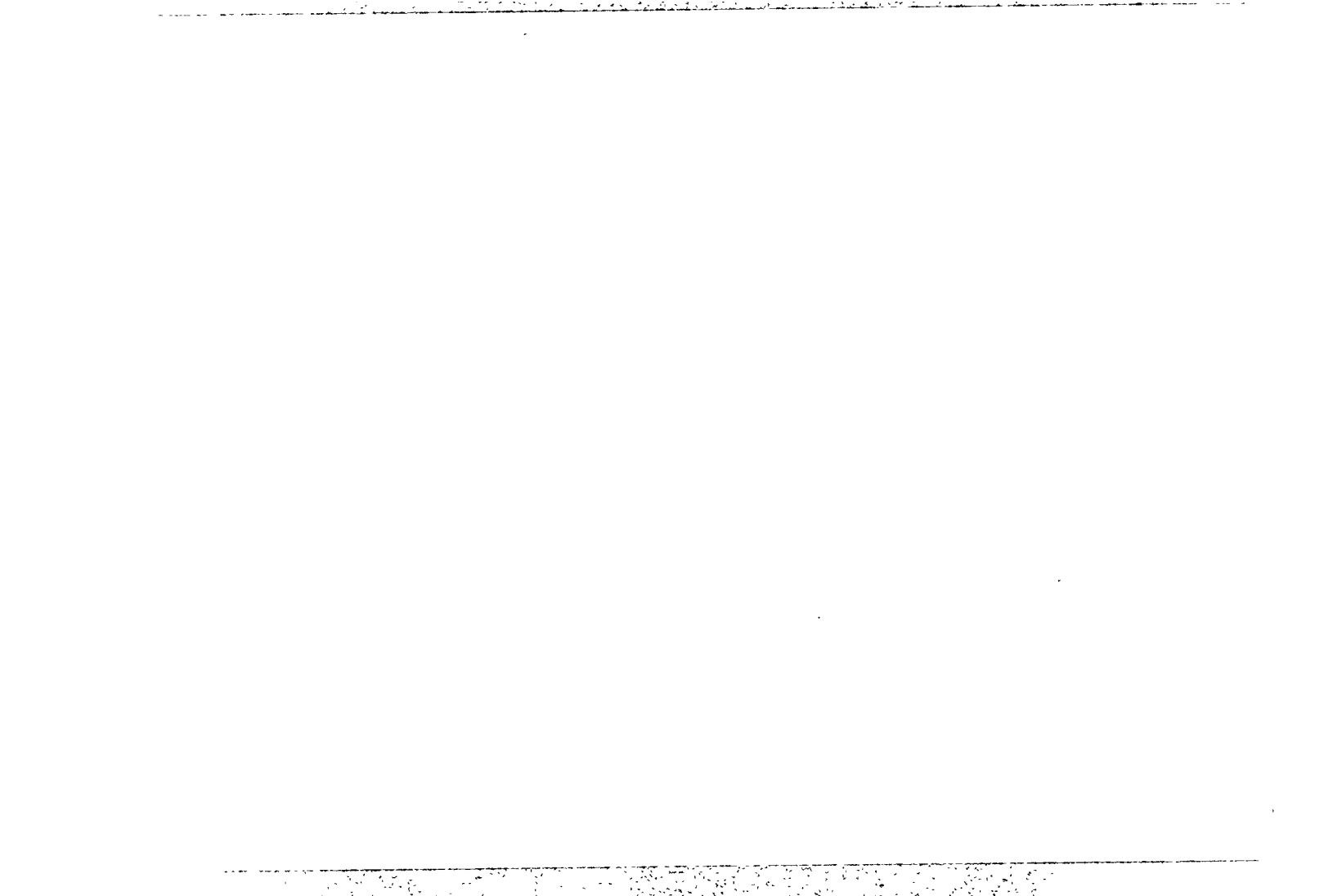
System display features automatically and buttons flashing continuously.

- Demonstration mode is switched on.
- Press and hold STOP ■ for 3 seconds to switch off the demo.

"UNPLUG HEADPHONE" is displayed.

- Headphones are connected.
- Disconnect the headphones.





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