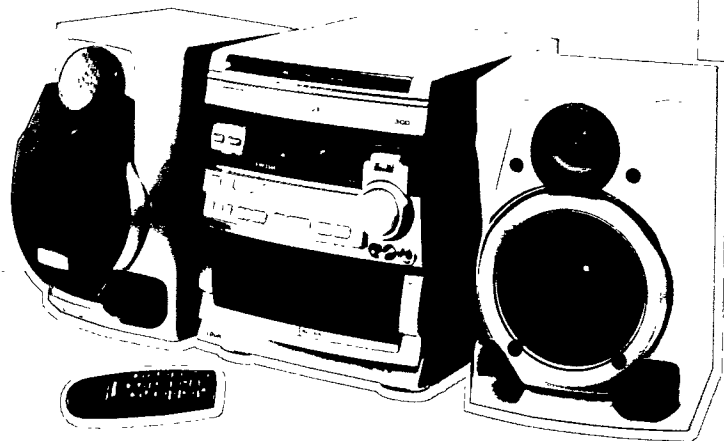


PHILIPS

FW 356C Mini HiFi System



Instructions for use
Mode d'emploi
Instrucciones de manejo
使用説明書
Manual de Instruções



PHILIPS

México

NOM

Es necesario que lea cuidadosamente su instructivo de manejo.

	PRECAUCION - ADVERTENCIA	
	NO ABRIR, RIESGO DE CHOQUE ELECTRICO	
ATENCION		
VERIFIQUE QUE EL VOLTAJE DE ALIMENTACION SEA EL REQUERIDO PARA SU APARATO		
PARA EVITAR EL RIESGO DE CHOQUE ELECTRICO, NO quite LA TAPA, EN CASO DE REQUERIR SERVICIO, DIRIJASE AL PERSONAL AUTORIZADO DE PHILIPS		

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Brasil Australia New Zealand Mexico

**CLASS 1
LASER PRODUCT**

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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.*

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.

Accessories (Supplied)

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

SAFETY INFORMATION

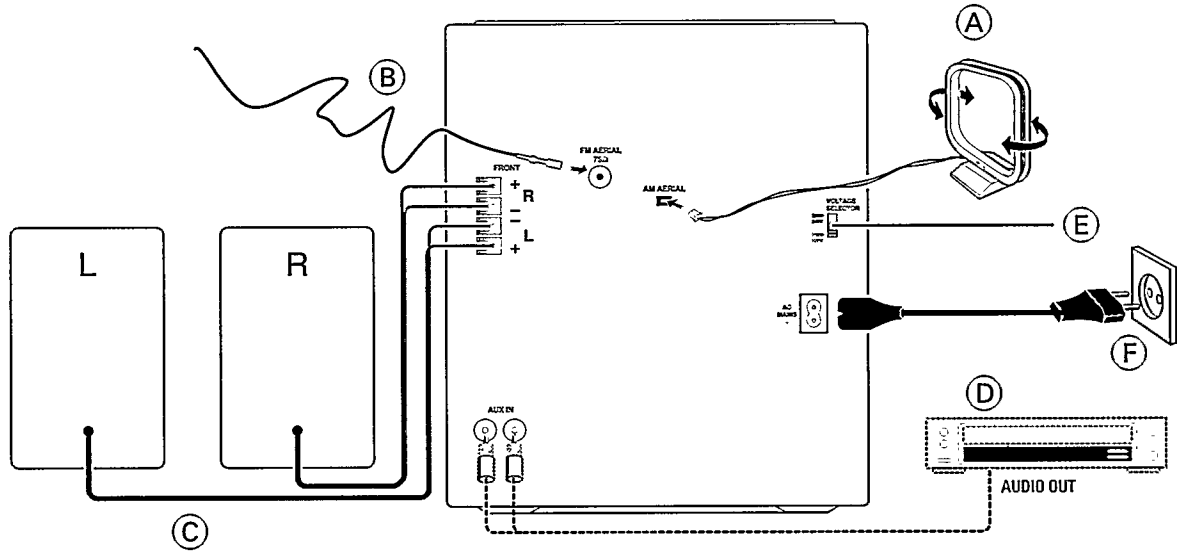
Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (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.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the system 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 system 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

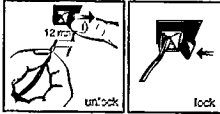
Connect the supplied FM wire antenna to the FM 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

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) Adjusting the Operating Voltage *(not available for version /30)*

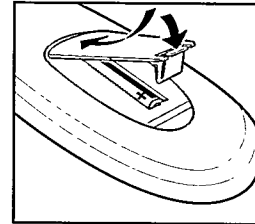
Before connecting the AC power cord to the wall outlet, make sure that the voltage selector at the rear of the system is set to the local power line voltage. If not, reset the selector before connecting to the wall outlet.

(F) 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

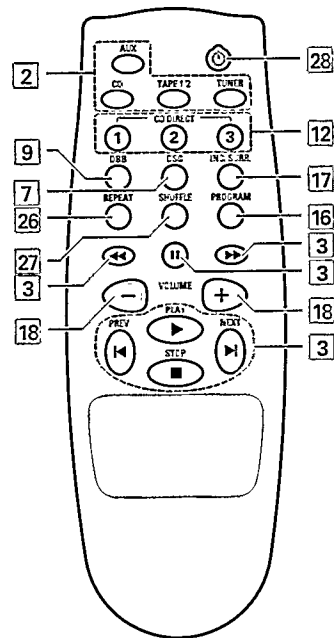
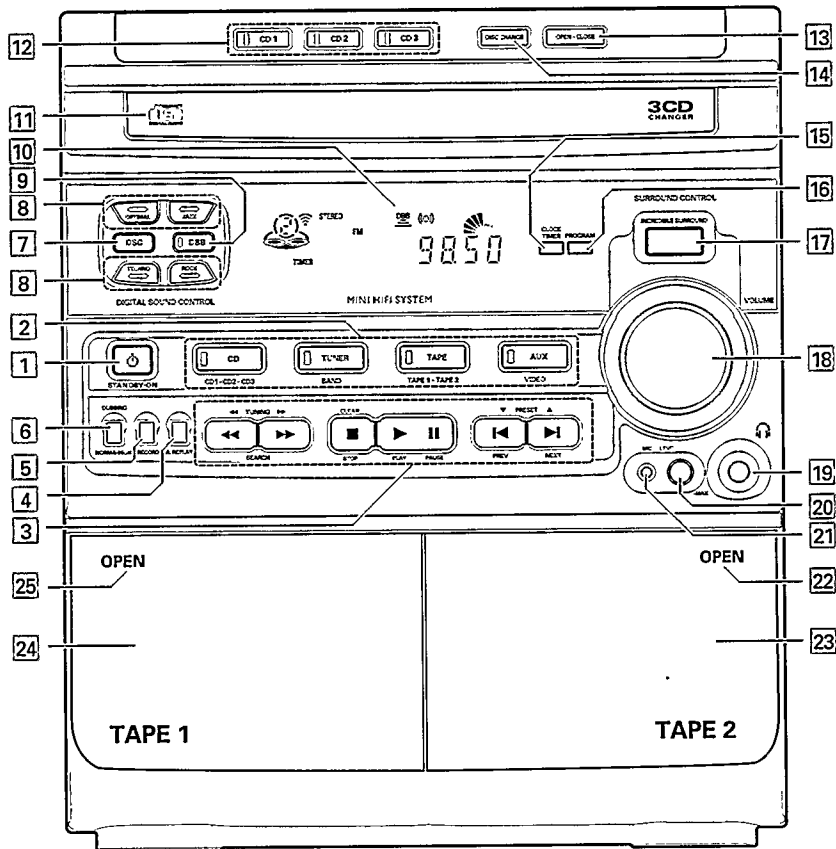
- Insert the batteries (Type R03 or AAA) into the remote control as shown in the battery compartment.



- 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 or AAA batteries.

CONTROLS

English



Controls on the system and remote control

1 STANDBY-ON

- to switch the system on or to standby mode.
- to store radio stations automatically by pressing and holding for 2 seconds.

2 SOURCE : to select the following.

- CD / (CD 1•CD 2•CD 3)**
- to select CD mode. When CD in stop mode; to select the respective disc tray.
- TUNER / (BAND)**
- to select Tuner mode. When in tuner mode; to select the waveband: FM or MW.
- TAPE / (TAPE 1•TAPE 2)**
- to select Tape mode. When tape in stop mode; to select either tape deck 1 or 2.
- AUX / (VIDEO)**
- to select sound from an external source (e.g. TV, Laser Disc, DVD or VCR player).



3 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 on tape deck 2 only.

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**
- for CD to start or interrupt playback.
- for TAPE to start playback.

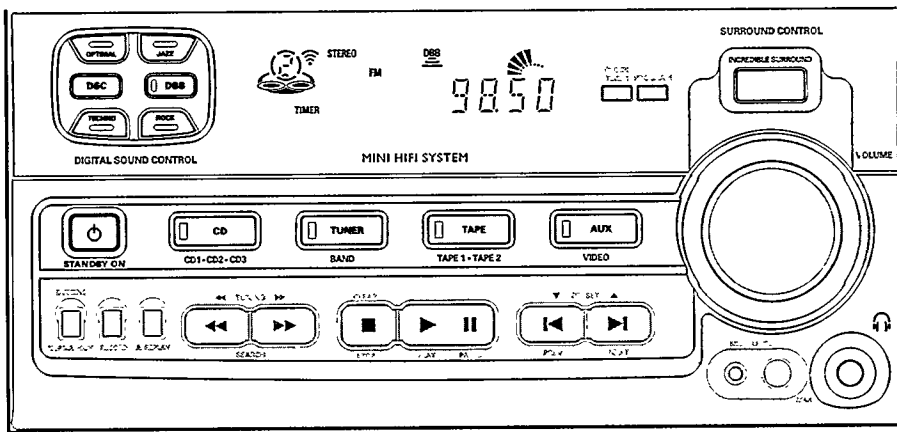
- PREV ◀ / NEXT ▶ (PRESET ▲ ▼)**
- for CD to skip to the beginning of the current or previous/next track.
- for TUNER to select a preset station in memory.
- 4 **AUTO REPLAY** (available in tape deck 2 only)
- to select playback mode either in continuous AUTO PLAY or ONCE only.
- 5 **RECORD**
- to start recording on tape deck 2 only.
- 6 **DUBBING**
- to dub a tape in normal or high speed.
- 7 **DIGITAL SOUND CONTROL (DSC)**
- to select the desired sound effect : OPTIMAL, JAZZ, ROCK or TECHNO.
- 8 **DIGITAL SOUND CONTROL DISPLAY PANEL**
- to view the selected DSC display.
- 9 **DYNAMIC BASS BOOST (DBB)**
- to switch on bass boost to enhance bass response or to switch off bass boost.
- 10 **DISPLAY**
- to view the current setting of the system.
- 11 **CD CAROUSEL TRAY**
- 12 **3 CD DIRECT PLAY**
- to select a CD tray for playback.
- 13 **OPEN•CLOSE**
- to open or close the CD carousel tray.
- 14 **DISC CHANGE**
- to change CD(s).
- 15 **CLOCK•TIMER**
- to view clock, set clock or timer.
- 16 **PROGRAM**
- to program CD tracks in CD mode or preset radio stations in tuner mode.
- 17 **INCREDIBLE SURROUND**
- to switch on or off the surround sound effect.

- 18 **VOLUME**
- to adjust the volume level.
- 19 
- to connect headphones.
- 20 **MIC LEVEL** (not available for version /30)
- to adjust the mixing level for karaoke or microphone recording.
- 21 **MIC** (not available for version /30)
- to connect microphones jack.
- 22 **OPEN**
- to open tape deck 2.
- 23 **TAPE DECK 2**
- 24 **TAPE DECK 1**
- 25 **OPEN**
- to open tape deck 1.
- 26 **REPEAT**
- to repeat a CD track.
- 27 **SHUFFLE**
- to play all the available discs and their tracks in random order.
- 28 
- to switch the system to standby mode.

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 1/2 or AUX).
- Then select the desired function (PLAY, NEXT, etc.).

OPERATING THE SYSTEM



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 resume.

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.

Easy Set

EASY SET allows you to store all available radio stations in a particular band (FM or MW) automatically.

- Press and hold **STANDBY•ON** (on the system only) for 2 seconds; when the system is in standby or demonstration mode.
 - "EASY SET" will be displayed and followed by "TUNER".
 - EASY SET will start with the last active band
 - All available radio stations with sufficient signal strength will be stored or until 40 presets are filled.

Notes :

- When EASY SET is used, all previously stored stations will be erased.
- The last preset station will appear on the display when EASY SET is completed.

Switching the system ON

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

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

Switching the system to standby mode

- Press **STANDBY•ON** again.
 - The system will switch to standby mode.

Selecting the Source

- Press the respective source selection button: **CD**, **TUNER**, **TAPE** or **AUX**.
→ 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

Adjust **VOLUME** 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.

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**, **JAZZ**, **ROCK** or **TECHNO**.
→ The Digital Sound Control display panel will light up respectively.
→ “**OPTIMAL**”, **JAZZ**, **ROCK** or **TECHNO**” will be displayed.

Automatic DSC-DBB selection

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

DSC Selection	DBB On/Off
Optimal ← →	On
Techno ← →	On
Rock ← →	Off
Jazz ← →	Off

Dynamic Bass Boost (DBB)

The **DBB** mode enhances the bass response.

- Press **DBB** to switch on bass boost.
→ The **DBB** button lights up.
→ “**DBB ON**” will be displayed.



To switch off **DBB**

- Press **DBB** again.
→ 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. If this occurs, switch off **Incredible Surround** (if available), **DBB** level or reduce the volume.

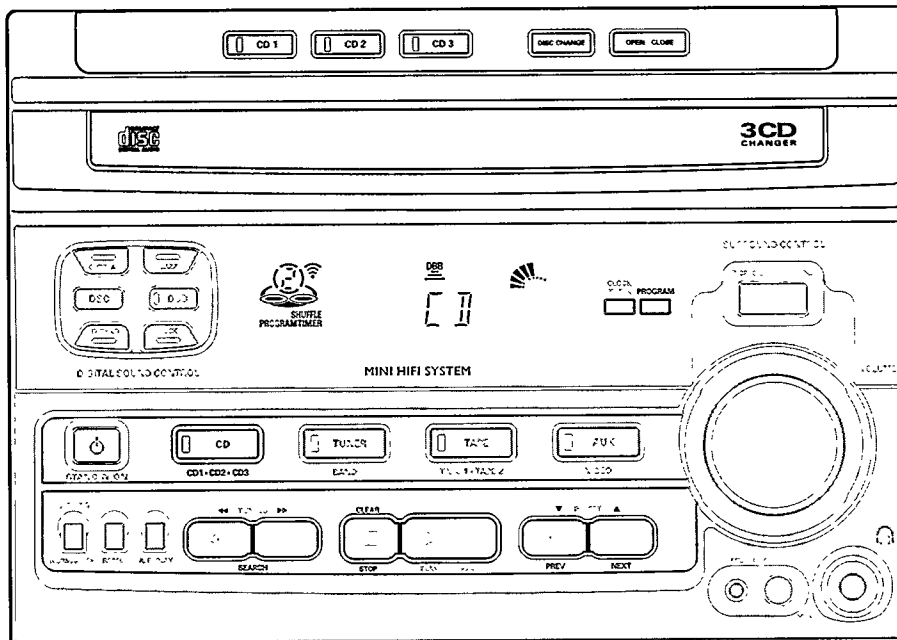
Incredible Surround

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.
→ “**IS**” 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.

**Warning!**

- 1) *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.*
- 2) *Do not load more than one disc into each tray.*
- 3) *When the CD changer is loaded with CD(s), do not turn over or shake the system. This may jam the changer.*

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.

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 lighted, 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.
- 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 play 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 tray 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 1•CD 2•CD 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.

Note:

- 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 CLEAR" will be displayed.

Note:

- The program will be 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 "CLEAR".

Shuffle (only on remote control)

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

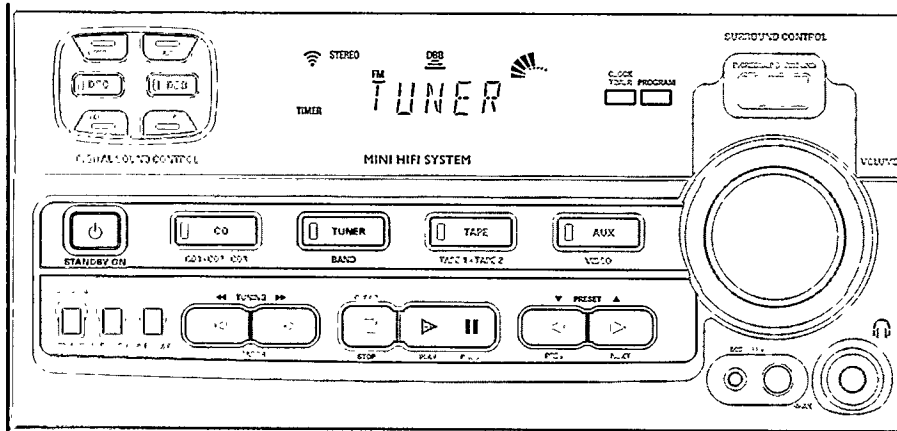
To shuffle all the discs and tracks

- 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 now be played repeatedly until you press **STOP** ■.
- 2 Press **REPEAT** again to resume normal playback.
 - The REPEAT flag disappears from the display.



Easy Set

EASY SET allows you to store all available radio stations in a particular band (FM or MW) automatically.

- Press and hold **STANDBY•ON** (on the system only) for 2 seconds; when the system is in standby or demonstration mode.
 - "EASY SET" will be displayed and followed by "TUNER".
 - EASY SET will start with the last active band.
 - All available radio stations with sufficient signal strength will be stored or until 40 presets are filled.
- Notes :**
- When EASY SET is used, all previously stored radio stations will be erased.
 - The last preset radio station will appear on the display when EASY SET is completed.

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 or MW.
 - 3 Press **TUNING** ◀◀ or ▶▶ for more than one second, then release.
 - The display will show 'SEARCH' until a radio 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 radio 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 or MW.
 - 3 Press **PROGRAM** for more than one second.
 - PROGRAM flag starts flashing and 'AUTO' will be displayed.
 - Every available 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 radio 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 or MW.
 - 3 Press **PROGRAM** for less than one second.
 - PROGRAM flag, the frequency and preset number start 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 radio station will be stored.
- Repeat the above procedure to store other preset radio stations.

Notes:

- When 40 radio stations are stored and you attempt to store another radio station, the display will show "PROGRAM FULL". If you want to change an existing preset number, repeat steps 4 and 5.
- You can cancel manual programming by pressing **STOP ■** on the system only.
- 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.
 - The preset number, frequency and waveband appear on the display

Changing the MW tuning grid

(not available for version /30)

The frequency step can be changed if necessary. In North and South America, the frequency step between adjacent channels in the MW band is 10 kHz. In other parts of the world, it is 9 kHz. The frequency step preset in the factory is 9 KHz.

For MW Band

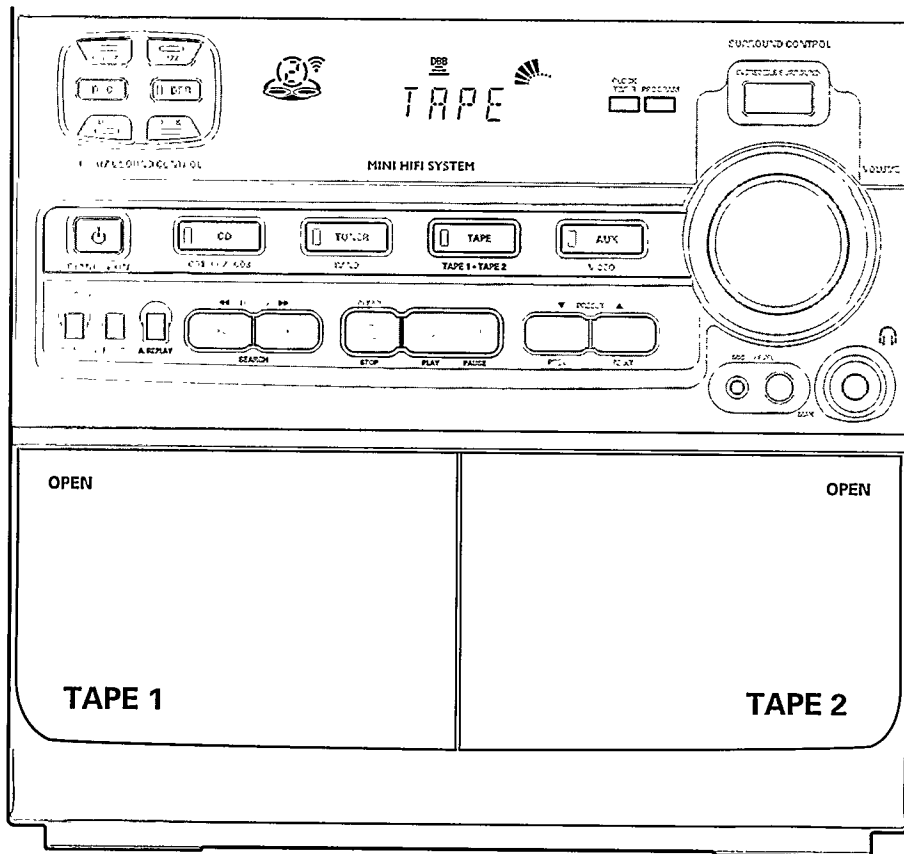
To change from 9 kHz to 10 kHz or vice versa

Changing of tuning grid will erase all previously stored preset stations.

- 1 Disconnect the system from the AC power supply (*pull out the AC power cord*).
- 2 Press and hold **TUNER** and **TUNING ▶▶** while reconnecting the system to the AC power supply
 - Display will show "GRID 10" or "GRID 9"

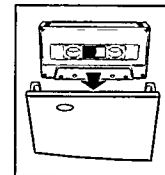
Notes:

- GRID 9 indicates that the tuning grid is in step of 9 kHz in MW band. GRID 10 indicates that the tuning grid is in step of 10 kHz in MW band.
- FM tuning grid will also be changed from 50 kHz to 100 kHz or vice versa. All preset stations will also be erased.



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 **A. REPLAY** to select the different type of play mode (see auto replay).
- 4 Press **STOP** ■ to end playback.

Note:

- When the tape has stopped playing, the system will switch to the standby mode automatically after 15 minutes if no button is pressed.



Auto Replay *(only on tape deck 2)*

- Press **A. REPLAY** to select either continuous AUTO REPLAY or ONCE during tape playback.
 - "AUTO REPLAY" or "ONCE" will be displayed.

Notes:

- This feature is available during tape playback only.
- When "AUTO REPLAY" is selected, the tape will rewind automatically at the end of playback for the selected side. Then it will start playing again. It will replay up to a maximum of 20 times or when you press STOP ■.
- When "ONCE" is selected, the tape will play the selected side once and then stop.

Rewind/Fast Forward *(only on tape deck 2)*

At the stop mode

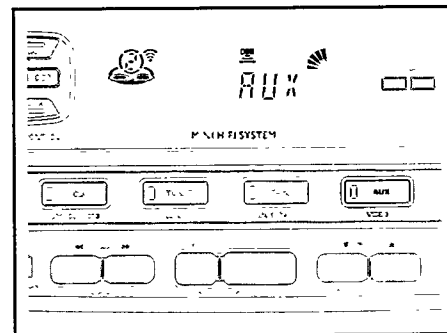
- 1 You can rewind or fast forward the tape by pressing ◀◀ or ▶▶ respectively.
 - "◀◀" or "▶▶" will be displayed depending on which button is pressed.
 - The tape will stop automatically at the end of the rewinding or fast forwarding.
- 2 Press STOP ■ to stop rewind or fast forward.

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 of a tape, it is possible to select another source (e.g. CD, TUNER or AUX).
- Check and tighten slack tape with a pencil before use. 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, a transformer, TV or loudspeaker boxes).



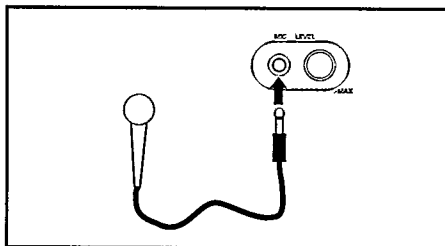
Selecting External Equipment

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 enhanced sound from the system.

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

Note:

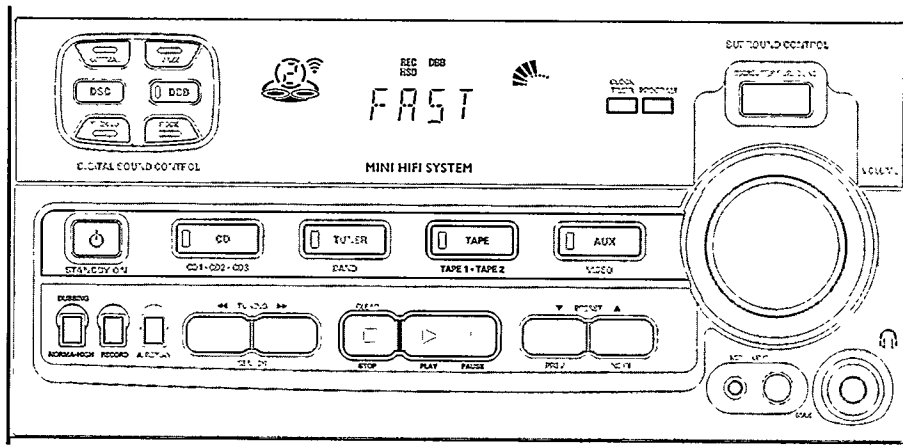
- All the sound control features (e.g. DSC, DBB, etc.) are available for selection.



Microphone Mixing

(not available for version /30)

- 1 Set the **MIC LEVEL** control to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before you connect the microphone.
- 2 Connect a microphone to the **MIC** socket.
- 3 Press **CD**, **TUNER**, **TAPE** or **AUX**.
- 4 Play the selected source.
- 5 Adjust the volume level with **VOLUME** control.
- 6 Adjust the **MIC LEVEL** control to the mixing level that you want.
- 7 Start singing or talking through the microphone.



English

Notes:

- If you do not intend to record via the microphone, unplug the microphone to avoid accidental mixing with other recording source.
- For recording, use only tape of IEC type I (normal tape).
- 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**.
- To prevent accidental recording, break out the tab on the left shoulder of the tape side that 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.

Recording the mixed sound / One Touch Recording

- During microphone mixing (not available for version /30), you can record the mixed sound on a tape in tape deck 2.
 - For One Touch Recording, as soon as you press **RECORD**, the current source will be recorded on tape deck 2.
- 1 Load a blank tape in tape deck 2.
 - 2 Press **RECORD** to start recording.
→ REC flag starts flashing.
 - 3 Press **STOP** ■ to stop recording.

Note:

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

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.
 - Make sure that the tape in tape deck 1 has its full spool to the left.
- 3 Press **DUBBING once** for normal speed dubbing or **twice** within 2 seconds for high speed dubbing.
 - "NORMAL" (normal speed) or "FAST" (high speed) will be displayed and then followed by "DUBBING".
 - HSD flag appears on the display for high speed dubbing.
- Dubbing will start immediately.
 - REC flag starts flashing.
- 4 Press **STOP ■** to stop dubbing.

Notes:

- 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 source while dubbing.

CD Synchro Start Recording

- 1 Load a blank tape into tape deck 2 and a disc into the disc tray.
- 2 Press **CD** to select CD mode.
 - 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.
- 3 Press **RECORD** to start recording.
 - REC flag starts flashing.
 - CD will start playback automatically.
- 4 Press **STOP ■** to stop recording.

Recording from other sources (only on tape deck 2)

- 1 Load a blank tape into tape deck 2.
- 2 Press **CD, TUNER** or **AUX**.
- Start playback of the selected source.
- 3 Press **RECORD** to start recording.
 - REC flag starts flashing.
- 4 Press **STOP ■** to stop recording.

Note:

- During recording, it is not possible to listen to another sound source.

View Clock

You can view the clock (if it is set) at standby or any source mode. It will be displayed for about 7 seconds

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

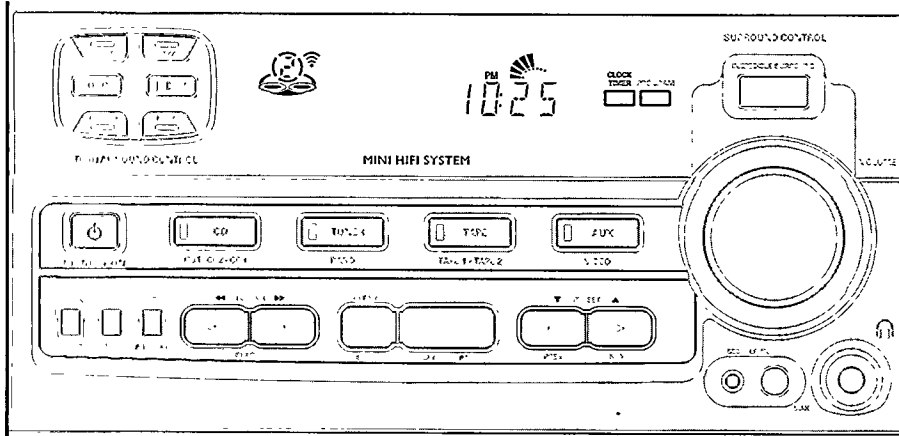
Clock Setting

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.
 - "◀, ▶, ◀, ▶, ■" light up.
- 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.



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.
 - "ON 00:00" or the last set timer starts flashing. The **TIMER** flag flashes.
 - The last selected source is lighted while other available sources are flashing.
 - "◀▶, ▶▶, ◀◀, ▶◀, ■" light up.
 - 2 Press **CD**, **TUNER** or **TAPE** to select the desired source.
 - 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.
 - 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 cancel the **TIMER**

- 1 Press **CLOCK•TIMER** for more than 2 seconds.
- 2 Press **PAUSE II** to cancel the timer.
 - "CANCEL" will be displayed.
 - The **TIMER** flag disappears from the display.

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

- 1 Press **CLOCK•TIMER** for more than 2 seconds.
- 2 Press **CLOCK•TIMER** again to store the start time and the selected source.

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 benzine, 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	
PMPO	800 W
Signal-to-noise ratio	≥ 75 dBA (IEC)
Frequency response	60 – 16,000Hz, ±3dB
Input sensitivity	
Aux In	500mV
Microphone (not available for version /30)	2.5 mV
Output	
Speakers	≥ 6 Ω
Headphones	32 Ω – 1000 Ω
	(1) ±1dB

CD PLAYER

Number of programmable tracks	40
Frequency range	40 - 20000 Hz
Signal-to-noise ratio	≥ 80 dBA
Channel separation	≥ 60 dB (1 kHz)
Total harmonic distortion	< 0.003%

TUNER

FM wave range	87.5 – 108 MHz
MW wave range (9 kHz)	531 – 1602 kHz
MW wave range (10 kHz)	530 – 1700 kHz
Tuning grid	9/10 kHz
Number of presets	40
Antenna FM	75 Ω wire
AM	Loop antenna

TAPE DECK

Frequency range	
Chrome tape (type II)	80 – 14000 Hz (8 dB)
Normal tape (type I)	80 – 12500 Hz (8 dB)
Signal-to-noise ratio	
Chrome tape (type II)	≥ 52 dBA
Normal tape (type I)	≥ 48 dBA
Wow and flutter	≤ 0.4% JIS

SPEAKERS

System	2 way; Double port bass reflex
Impedance	6 Ω
Woofer	1 x 5.5"
Tweeter	1 x 2.5" Polydome
Dimensions (w x h x d)	210 x 310 x 230 (mm)
Weight	2.9 kg

GENERAL INFORMATION

Material/finish	Polystyrene
AC Power	110-127/220-240V; 50/60Hz; Switchable
Power Consumption	
Active	44 W
Standby	≤ 14 W
Dimensions (w x h x d)	265 x 330 x 310 (mm)
Weight (w/without speakers)	5.9 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 does not react when any button is pressed.

- Electrostatic discharge.
- Press STANDBY-ON to switch the system 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 connected wrongly.
- Check the speaker connections and location.

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

- Speakers are connected wrongly.
- 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 CLOCK • TIMER to switch on the timer.
- Dubbing/recording is in progress.
- Stop dubbing/recording.

System displays features automatically; buttons flash continuously.

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

AUSTRALIA – Philips product warranty for Australia

Warranty conditions valid for Colour Television, Video Cassette Recorders, Audio Systems, and Portable Audio.

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies which the purchaser has in respect of the product under the Trade Practices Act or other Commonwealth or State Law. Philips Sound and Vision warrants its products to the purchaser as follows and subject to the stated conditions.

12 months free service

Any defect in materials or workmanship in the product occurring within 12 months from the original date of purchase will be rectified free of charge by Philips Service or one of our authorised service centers.

Conditions of warranty

1. All claims for warranty service should be made to your nearest Philips Service Branch or to a Philips authorised service dealer. Reasonable evidence of date of purchase must be provided.
2. This warranty extends only to defects occurring under normal use of the product when operated in accordance with the instructions.
3. Home service within the normal service area of Philips Service or one of our authorised service centres will be provided for television receivers with screen size 59cm and above. All other products are to be brought or sent to your nearest Philips Service Branch or to an authorised service centre.
4. This warranty does not cover:
 - a) Mileage or traveling time, pickup or delivery, cost of insurance.
 - b) Service costs arising from failure to correctly adjust the controls of the product or to observe the instructions, or inspections that reveal that the product is in normal working order.

- c) Product failures caused by misuse, neglect, normal wear and tear, accidental breakage, transit damage, inexpert repairs or modification by unauthorised persons, lightning strikes, vermin infestation or liquid spillage.
- d) Cleaning of video or audio heads.
- e) Inadequate receiving antennae.
- f) Replacement of worn or used batteries, styli or other consumables.

The conditions contained in this warranty replace and override the provisions of the World-Wide Guarantee for Products sold in Australia.

Philips Service Branches

To contact your nearest Philips Service Branch call **13-13-92** from anywhere in Australia.

Sydney

Technology Park, Australia Centre
3 Figtree Drive, Homebush NSW 2140

Newcastle & Central Coast

984 Hunter Street, Newcastle West NSW 2302

Perth

1 Fredrick Street, Belmont WA 6104

Melbourne

Cnr Wellington &, Springvale Roads, Mulgrave VIC 3170

Brisbane

10 Graystone Street, Tingalpa QLD 4173

Also Service Centres:

Adelaide

348 Torrens Road, Croydon Park SA 5008

Hobart

2A Pierce Street, Moonah TAS 7009

Wollongong

1/216 Corrimal Street, Wollongong NSW 2500

Canberra

Unit F, 66–70 Maryborough Street, Fyshwick ACT 2609

Service is also provided through 1,200 accredited service dealers throughout Australia. To find out about your nearest centre, call **13 13 92**.

Call us direct on the Philips Customer Helpline

Philips customer care lasts as long as you keep the product. Whenever you need any information on the care or operation of your product, remember it's always best to go straight to the source. Phone Philips Helpline direct on

13 13 91

7 days a week

– your call is always welcome.

Please record the following information for your records and keep in a safe place.

Model No:.....

Serial No:.....

***Please retain your purchase
receipt which is required to
claim service under warranty.***

Philips Electronics Australia Limited
ACN 008 445 743, 3 Figtree Drive
Homebush NSW 2140

Version 2, 08/97, FCCP-030

English

Français

Español

中文

Português

English

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Español

☒

Português

Guarantee and Service for New Zealand

Thank-you for purchasing this quality Philips product. Philips New Zealand Ltd guarantees this product against defective components and faulty workmanship for a period of 12 months. Any defect in materials or workmanship occurring within 12 months from the date of purchase subject to the following conditions will be rectified free of charge by the retailer from whom this product was purchased.

Conditions

1. The product must have been purchased in New Zealand. As proof of purchase, retain the original sales docket indicating the date of purchase.
2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
3. The guarantee does not cover failures caused by misuse, neglect, normal wear and tear, accidental breakage, use on the incorrect voltage, use contrary to operating instructions, or unauthorised modification to the product or repair by an unauthorised technician.
4. Reasonable evidence (in the form of a sales docket) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
5. In the event of a failure, Philips shall be under no liability for any injury, or any loss or damage caused to property or products other than the product under guarantee.

This guarantee does not prejudice your rights under common law and statute, and is in addition to the normal responsibilities of the retailer and Philips.

How to claim

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product. However, should the retailer not be able to conclude the matter satisfactorily, or if you have other difficulties claiming under this guarantee, please contact

The Guarantee Controller Philips New Zealand Ltd.

✉ P.O. Box 41.021

Auckland

☎ (09) 84 94 160

fax ☎ (09) 84 97 858

Garantía para México

Este aparato está fabricado con materiales de alta calidad y ha sido cuidadosamente verificado. Philips, por lo tanto, da a usted una garantía de 12 meses a partir de su fecha de compra.

La garantía ampara la reposición de las piezas defectuosas debidas a fallas en su montaje o en los materiales, incluyendo la mano de obra necesaria para su reemplazo en nuestras Sucursales o talleres autorizados. En caso de fallas en su aparato le rogamos se sirva poner en contacto con su distribuidor.

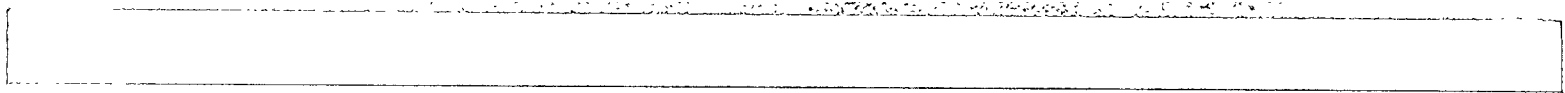
Esta garantía no cubrirá las averías que resulten como consecuencia de una instalación incorrecta del aparato, manifiesto maltrato o uso inadecuado del mismo. Philips se obliga a reparar y devolver a usted su aparato en un plazo no mayor de 30 días hábiles contados a partir de la fecha de haber ingresado su aparato a uno de nuestros talleres.

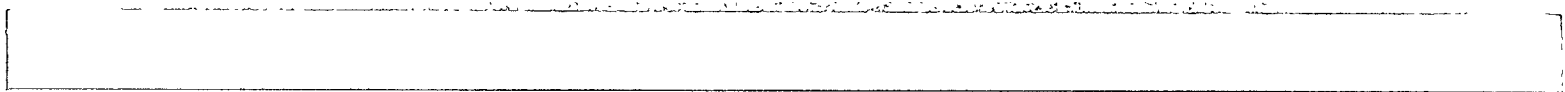
Para que esta garantía sea válida, es necesario que el certificado que figura en la parte posterior de este instructivo haya sido debidamente llenado en el momento de la compra del aparato.

En caso de extravío del certificado con la presentación de la factura o remisión de su aparato podrá hacer efectiva la garantía correspondiente.

Si usted tiene alguna duda o pregunta que no le pueda solucionar su distribuidor, por favor ponerse en contacto con:

Centro de Servicio Philips
Blvd. de los Ferrocarriles No.339
Col. Industrial Vallejo, 02300
México, D.F.
☎ 728-42 00
Centro de Información al Consumidor
☎ 368-77 88 ó 91 (800) 504-62 00





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FW 356C

