Mini Hi-Fi System

*FW-*C255

Let's make things better.

PHILIPS

México

NOM·135·NYCE

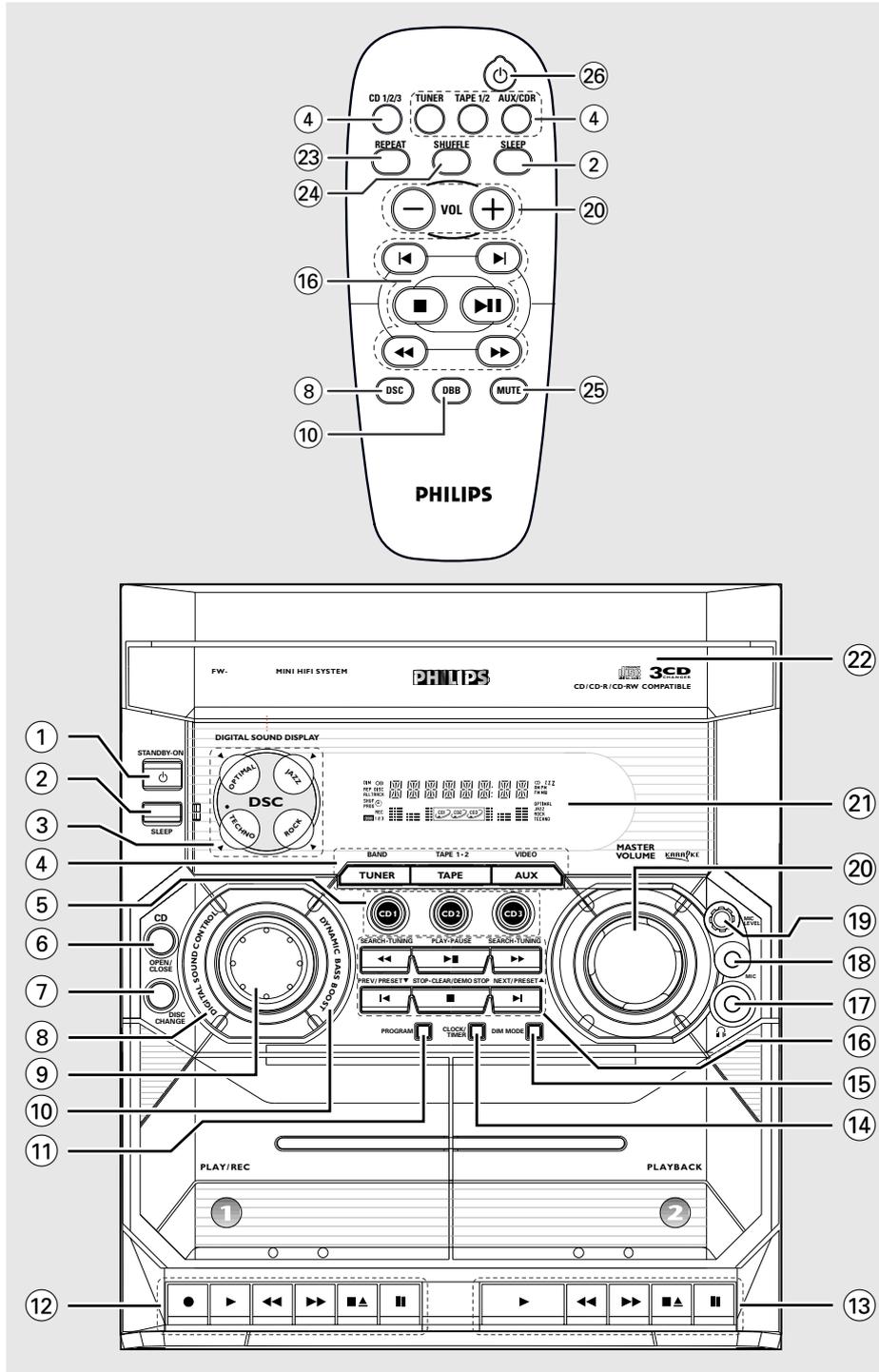Es necesario que lea cuidadosamente su instructivo de manejo.

PRECAUCIÓN - ADVERTENCIA
No abrir, riesgo de choque eléctrico
ATENCIÓN
Verifique que el voltaje de alimentación sea el requerido para su aparato

Para evitar el riesgo de choque eléctrico, no quite la tapa. En caso de requerir servicio, dirijase al personal calificado.

Descripción:	**Minisistema de Audio**
Modelo :	**FW-C255/21**
Alimentación:	**110–127 / 220–240V~; 50–60 Hz**
Consumo:	**70 W**
Importador:	**Philips Mexicana, S.A. de C.V.**
Domicilio:	**Norte 45, # 669,**
	Col. Industrial Vallejo
Localidad y Tel:	**C.P. 02300 México D.F.,**
	Tel. 5728-4200
Exportador:	**Philips Electronics HK, Ltd.**
País de Origen:	**China**
N° de Serie:	

LEA CUIDADOSAMENTE ESTE INSTRUCTIVO ANTES DE USAR SU APARATO.

CAUTION
Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

2

CD 1/2/3   TUNER   TAPE 1/2   AUX/CDR

REPEAT   SHUFFLE   SLEEP

VOL

DSC   DBB   MUTE

PHILIPS

DIGITAL SOUND DISPLAY

FW-   MINI HIFI SYSTEM   **PHILIPS**   **3CD** CHANGER
CD/CD-R/CD-RW COMPATIBLE

STANDBY-ON

OPTIMAL   JAZZ
DSC
TECHNO   ROCK

SLEEP

BAND   TAPE 1·2   VIDEO

TUNER   **TAPE**   **AUX**

CD

OPEN/
CLOSE

DISC
CHANGE

DIGITAL SOUND CONTROL   DYNAMIC BASS BOOST

CD1   CD2   CD3

SEARCH·TUNING   PLAY·PAUSE   SEARCH·TUNING

PREV/PRESET▼   STOP·CLEAR/DEMO STOP   NEXT/PRESET▲

PROGRAM   CLOCK/TIMER   DIM MODE

MASTER
VOLUME   KARAOKE

MIC
LEVEL

MIC

PLAY/REC   PLAYBACK

1   2

DEMO MODE

To turn ON

Press & HOLD **DEMO STOP** [ ] button for **5** seconds

To turn OFF

Press & HOLD **DEMO STOP** [ ] button for **5** seconds

PLUG & PLAY

1

Plug in the unit

2

INSTALL

Follow instructions in the display

3

▶

Press "PLAY"

Index

5

Contents

3139 115 21251

General Information

IMPORTANT!
***PLEASE NOTE THAT THE VOLTAGE
SELECTOR LOCATED AT THE REAR OF
THIS SYSTEM IS PRESET AT 220V FROM
THE FACTORY. FOR COUNTRIES THAT
OPERATE AT 110V-127V, PLEASE ADJUST
TO 110V-127V BEFORE YOU SWITCH ON
THE SYSTEM.***

Supplied accessories

– 2 speaker boxes
– remote control
– AM loop antenna
– FM wire antenna

Environmental Information

All unnecessary packaging has been omitted. We
have tried to make the packaging easy to
separate into three materials: cardboard (box),
polystyrene foam (buffer) and polyethylene (bags,
protective foam sheet).

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

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.

● Place the system on a flat, hard and stable
surface.

● Place the system in a location with adequate
ventilation to prevent internal heat build-up in
your system. Allow at least 10 cm (4 inches)
clearance from the rear and the top of the unit
and 5 cm (2 inches) from each side.

● Do not expose the system, batteries or discs to
excessive moisture, rain, sand or heat sources
caused by heating equipment or direct sunlight.

● The lens may cloud over when the system is
suddenly moved from cold to warm
surroundings, making it impossible to play a disc.
Leave the system in the warm environment until
the moisture evaporates.

● The mechanical parts of the set contain self-
lubricating bearings and must not be oiled or
lubricated.

● **When the system is switched to Standby
mode, it is still consuming some power.
To disconnect the system from the
power supply completely, remove the AC
power plug from the wall socket.**

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Preparations

AM loop antenna

FM wire antenna

speaker (right)

B

C

speaker (left)

A
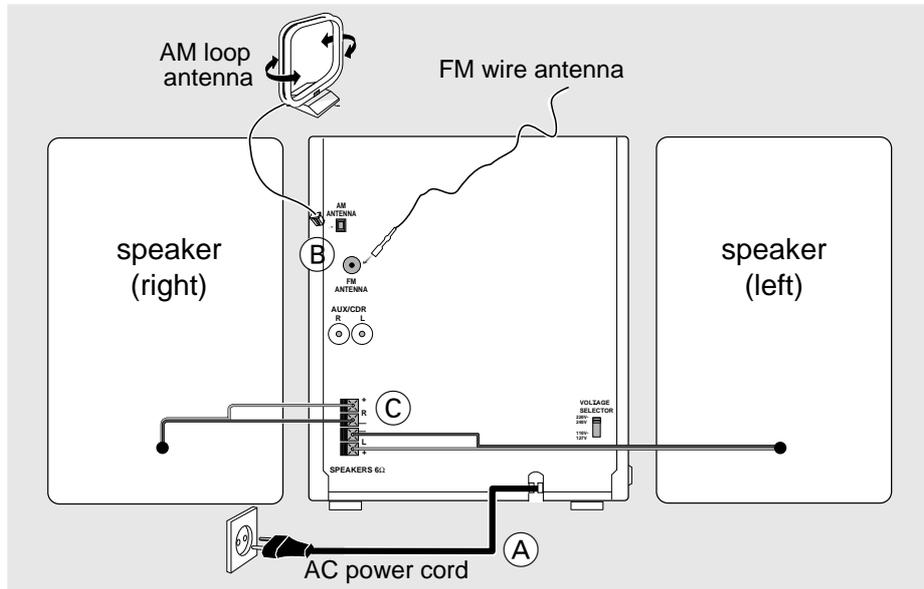
AC power cord

Rear connections

The type plate is located at the rear of the system.

(A) Power

Before connecting the AC power cord to the wall outlet, ensure that the following are done;
– If your system is equipped with a Voltage Selector, set the VOLTAGE SELECTOR to the local power line voltage.
– All other connections have been made.

WARNING!
– For optimal performance, use only the original power cable.
– Never make or change any connections with the power switched on.

To avoid overheating of the system, a safety circuit has been built in. Therefore, your system may switch to Standby mode automatically under extreme conditions. If this happens, let the system cool down before reusing it (not available for all versions)*.*

(B) Antennas Connection

Connect the supplied AM loop antenna and FM antenna to the respective terminals. Adjust the position of the antenna for optimal reception.

AM Antenna

Fix the claw to the slot

AM AERIAL
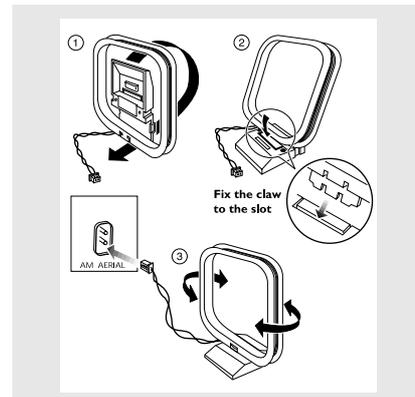
● Position the antenna as far as possible from a TV, VCR or other radiation source.

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FM Antenna

● For better FM stereo reception, connect an outdoor FM antenna to the FM ANTENNA terminal.

Ⓒ **Speakers Connection**

Connect the speaker wires to the SPEAKERS terminals, right speaker to "**R**" and left speaker to "**L**", coloured (marked) wire to "**＋**" and black (unmarked) wire to "**－**".

● Fully insert the stripped portion of the speaker wire into the terminal as shown.
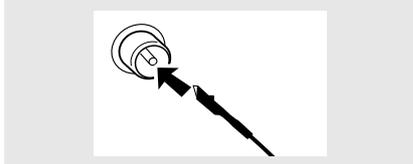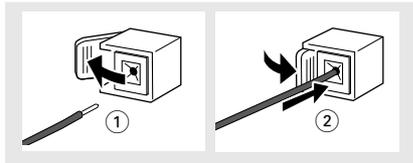
Notes:
– For optimal sound performance, use the supplied speakers.
– Do not connect more than one speaker to any one pair of ＋/ － speaker terminals.
– Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.

Optional connection

The optional equipment and connecting cords are not supplied. Refer to the operating instructions of the connected equipment for details.

Connecting other equipment to your system

Use a cinch cable to connect **AUX/CDR IN** to the analogue audio out terminals of an external equipment (TV, VCR, Laser Disc player, DVD player or CD Recorder).

Note:
– If you are connecting equipment with a mono output (a single audio out terminal), connect it to the AUX/CDR IN left terminal. Alternatively, you can use a "single to double" cinch cable (the output sound still remain mono).

Inserting batteries into the remote control

Insert two batteries type R03 or AAA (not supplied) into the remote control with the correct polarity as indicated by the "＋" and "－" symbols inside the battery compartment.
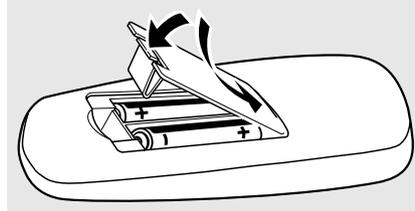
CAUTION!
– Remove batteries if they are exhausted or will not be used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed off properly.

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Controls *(illustrations on page 3)*

Controls on the system and remote control

(1) **STANDBY ON** ☉
– to switch the system on or to standby mode.

(2) **SLEEP**
– to activate/deactivate or set the sleep timer.

(3) **DIGITAL SOUND DISPLAY**
– the active DSC will be lighted.

(4) **TUNER** (BAND)
– to select waveband : FM or MW.

   TAPE (TAPE 1•2)
– to select tape mode.

   AUX (VIDEO) **(AUX/CDR)**
– to select the input for an additional appliance.

(5) **CD 1 / CD 2 / CD 3 (CD 1/2/3)**
– to select disc tray 1, 2 or 3.

(6) **OPEN/CLOSE**
– to open or close the disc tray.

(7) **DISC CHANGE**
– to change disc(s).

(8) **DIGITAL SOUND CONTROL (DSC)**
– to activate the jog control for DSC selection.

(9) **Jog control**
– to select the desired sound effect for the selected sound feature.
   DSC .... JAZZ, ROCK, TECHNO or OPTIMAL.
   DBB .... DBB 1, DBB 2, DBB 3 or DBB OFF.

(10) **DYNAMIC BASS BOOST (DBB)**
– to activate the jog control for DBB selection.

(11) **PROGRAM**
   for CD .... to programme disc tracks.
   for Tuner .... to programme preset radio stations.
   for Clock .... to select 12- or 24-hour clock mode.
   for Timer .... to select CD programme mode as the wake up source.

(12) **Tape deck 1 operation**
   ● .... to start recording.
   ▶ .... to start playback.
   ◀◀ / ▶▶ .... to rewind or fast forward.
   ■▲ .... to stop playback/recording or to open the tape door.
   ❙❙ .... to interrupt playback or recording.

(13) **Tape deck 2 operation**
   ▶ .... to start playback.
   ◀◀ / ▶▶ .... to rewind or fast forward.
   ■▲ .... to stop playback or to open the tape door.
   ❙❙ .... to interrupt playback.

(14) **CLOCK/TIMER**
– to view the clock, set the clock or set the timer.

(15) **DIM MODE**
– to select different brightness for the display screen : DIM 1, DIM 2, DIM 3 or DIM OFF.

Controls

16 **Mode Selection**

PLAY•PAUSE ▶ II
for CD .... to start or interrupt playback.
for Plug & Play…*(on the system only)* to initiate
and start plug & play mode.

SEARCH•TUNING ◀◀ ▶▶
for CD .... to search backward/forward.
for Tuner .... to tune to a lower or higher
radio frequency.
for Clock .... *(on the system only)* to set the
hour.

STOP•CLEAR / DEMO STOP ■
for CD .... to stop playback or to clear a
programme.
for Tuner .... *(on the system only)* to stop
programming or to erase a
selected preset.
for Demo .... *(on the system only)* to activate/
deactivate the demonstration.
for Clock .... *(on the system only)* to exit clock
setting or cancel timer.
for Plug & Play…*(on the system only)* to exit plug
& play mode.

PREV I◀ / PRESET ▼
NEXT ▶I / PRESET▲
for CD .... to skip to the beginning of the
current, previous, or next track.
for Tuner .... to select a preset radio station.
for Clock .... *(on the system only)* to set the
minute.

17 🎧
– to connect headphones.

18 **MIC** *(not available for all versions)*
– to connect microphone jack.

19 **MIC LEVEL** *(not available for all versions)*
– to adjust the mixing level for karaoke or
microphone recording.

20 **MASTER VOLUME (VOL ＋/－)**
– to increase or decrease the volume.

21 **Display screen**
– to view the current status of the system.

22 **Disc tray**

23 **REPEAT**
– to playback track(s)/disc(s)/programme
repeatedly.

24 **SHUFFLE**
– to playback all available discs and their tracks/
programme in random order.

25 **MUTE**
– to interrupt or resume sound reproduction.

26 ⏻
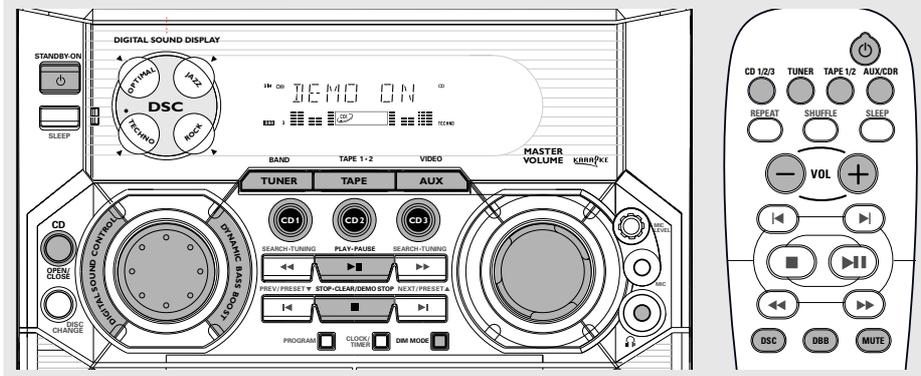– to switch the system to standby mode.

Notes for remote control:
– First, select the source you wish to control by pressing one of the source select keys on the remote control (CD 1/2/3 or TUNER, for example).
– Then select the desired function (▶, I◀, ▶I, for example).

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Basic Functions

IMPORTANT!
Before you operate the system, complete the preparation procedures.

Plug and Play

Plug and Play allows you to store all available radio stations automatically.

First time setup/power up

1 When you turn on the main supply, "$AUTO$ $INSTALL - PRESS PLAY$" is displayed.

2 Press ▶II on the system to start installation.
➔ "$INSTALL$" is displayed, followed by "$TUNER$" and "$AUTO$".
➔ **PROG** starts flashing.
➔ All available radio stations with sufficient signal strength will be stored automatically, starting from FM and followed by MW band.
➔ When all the available radio stations are stored or the memory for 40 presets are used, the last preset radio station will be played.

To reinstall Plug and Play

1 In standby or demonstration mode, press and hold ▶II on the system until "$AUTO$ $INSTALL -- PRESS PLAY$" is displayed.

2 Press ▶II again to start installation.
➔ All previously stored radio stations will be replaced.

To exit without storing the Plug and Play

● Press ■ on the system.
➔ If you do not complete the Plug and Play installation, the function will be restarted when you next turn on the main supply again.

Notes:
– When the power is turned on, the disc tray may open and close to initialise the system.
– If no stereo frequency is detected during Plug and Play, "$CHECK ANTENNA$" will be displayed.
– During Plug and Play, if no button is pressed within 15 seconds, the system will exit Plug and Play mode.

Demonstration mode

The system has a demonstration mode that shows the various features offered by the system.

To activate the demonstration

● **In standby mode**, press and hold ■ on the system until "WELCOME" is displayed.
   ➔ The demonstration will begin.

To deactivate the demonstration

● Press and hold ■ on the system until "DEMO OFF" is displayed.
   ➔ The system will switch to standby mode.

Note:
– If you have not deactivated the demonstration, it will resume five seconds after the system switches to standby mode.

Switching the system on

In standby/demonstration mode

● Press **STANDBY ON** to switch on the last selected source.

● Press **CD 1/2/3**, **TUNER**, **TAPE** (**TAPE 1/2**), or **AUX (AUX/CDR)**.

● Press **OPEN/CLOSE**.
   ➔ The system will switch to CD mode.

Switching the system to standby mode

In demonstration mode

● Press and hold ■ on the system.

In any other source mode

● Press **STANDBY ON** (or ⏻ on the remote control).
   ➔ The clock will appear on the display when the system is in standby mode.

Dim mode

You can select the desired brightness for the display.

● In any source mode (except standby mode), press **DIM MODE** repeatedly to select : DIM 1, DIM 2, DIM 3 or DIM OFF.
   ➔ **DIM** is shown, except for DIM OFF mode.

DIM mode	Brightness	Spectrum Analyser
1	normal	off
2	half	on
3	half	off
OFF	normal	on

Note:
– In standby mode, pressing DIM MODE to select half or full brightness for clock display.

Volume control

Press **MASTER VOLUME** (or press **VOL +** or **−** on the remote control) to increase or decrease the volume level.

To listen through the headphones

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

To switch off the volume temporarily

● Press **MUTE** on the remote control.
   ➔ Playback will continue without sound and "MUTE" is displayed.

● To restore the volume, press **MUTE** again or increase the volume level.
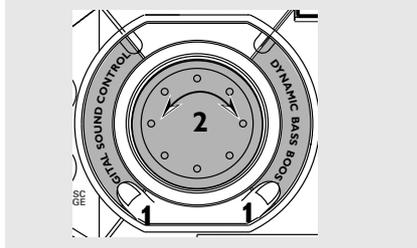
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Basic Functions

Sound control

Digital Sound Control (DSC)
The DSC feature enables you to enjoy special sound effects that have preset equaliser settings, providing the best music reproduction.

1 Press **DSC**.
→ The selected DSC is shown.

2 Adjust the jog control (or press **DSC** on the remote control repeatedly) to select : JAZZ, ROCK, TECHNO or OPTIMAL.

Dynamic Bass Boost (DBB)
There are three DBB settings to enhance the bass response.

1 Press **DBB**.
→ The selected **DBB** is shown, except for DBB OFF mode.

2 Adjust the jog control (or press **DBB** on the remote control repeatedly) to select : DBB 1, DBB 2, DBB 3 or DBB OFF.

Note:
– Some discs or tapes might be recorded in high modulation, which causes a distortion at high volume. If this occurs, switch off DBB or reduce the volume.

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

DSC	DBB
JAZZ	off
ROCK	on (3)
TECHNO	on (3)
OPTIMAL	on (2)

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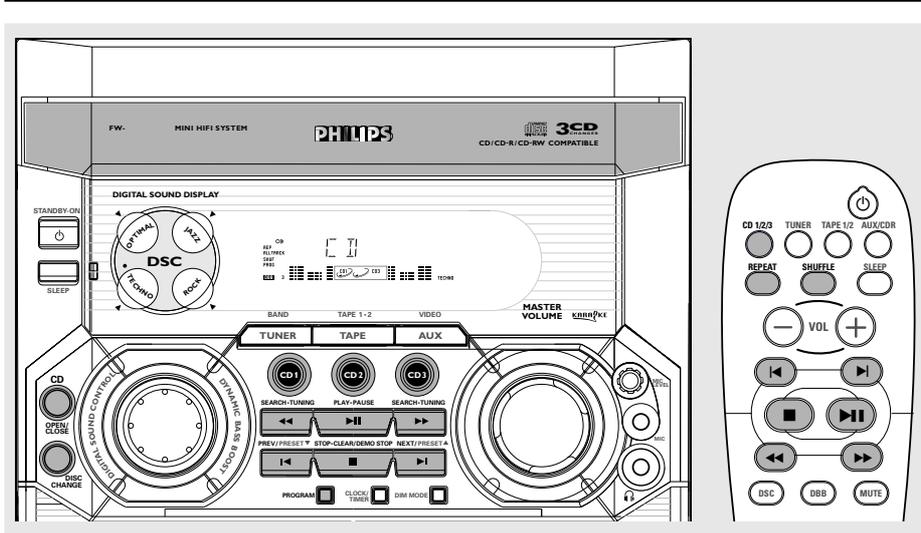
IMPORTANT!

– This system is designed for regular discs. Therefore, do not use any accessories such as disc stabiliser rings or disc treatment sheets, etc., as offered on the market, because they may jam the changer mechanism.
– Do not load more than one disc into each tray.

Discs for playback

This system can playback all digital audio CD, finalised digital audio CD-Recordable (CDR) discs and finalised digital audio CD-Rewritable (CDRW)discs.

Loading discs

1 Press **OPEN/CLOSE** to open the disc tray.

2 Load up to two discs on the individual disc trays. To load the third disc, press **DISC CHANGE**.
➔ The disc tray will rotate until the empty tray is ready for loading.
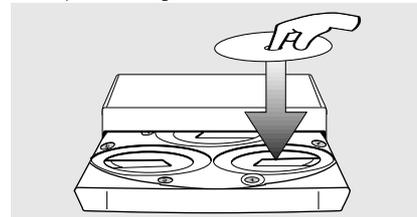
3 Press **OPEN/CLOSE** to close the disc tray.
➔ "READING" is displayed. The selected disc tray, total number of tracks and the playing time will appear on the display.

Notes:
– Load the discs with the label side facing up.
– To ensure good system performance, wait until the disc tray completely reads the disc(s) before proceeding.

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CD Operation

Playing discs

🔘	a disc is loaded in the disc tray
CD1	the current selected disc tray is empty
CD1 🔘	the current selected disc tray is loaded or playing

To play all discs on the disc tray

● Press ▶︎II.
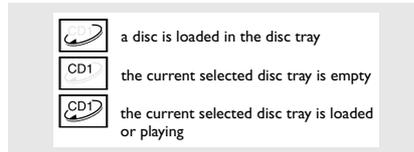➜ All the available discs will play once, then stop.
➜ During playback, the selected disc tray, track number and elapsed playing time of the current track are displayed.

To play the selected disc only

● In CD mode, press **CD 1**, **CD 2** or **CD 3** on the system.
➜ The selected disc will play once, then stop.

To interrupt playback

● Press ▶︎II.
➜ The current track time flashes.

● To resume playback, press ▶︎II again.

To stop playback

● Press ■.

Selecting a desired track/passage

To search for a particular passage during playback

● Press and hold ◀◀ or ▶▶ and release it when the desired passage is located.
➜ During searching, the volume will be reduced.

To select a desired track

● Press I◀ or ▶I repeatedly until the desired track is displayed.

● If playback is stopped, press ▶︎II to start playback.

Note:
– In Shuffle mode, pressing I◀ will cause the player to skip only to the beginning of the current track.

To skip to the beginning of the current track during playback

● Press I◀ **once**.

Replacing discs during playback

1 Press **DISC CHANGE**.
➜ The disc tray will open without interrupting current playback.

2 To change the inner disc, press **DISC CHANGE** again.
➜ "𝐷𝐼𝑆𝐶 𝐶𝐻𝐴𝑁𝐺𝐸" is displayed and the disc will stop playing.
➜ The disc tray will close to retrieve the inner disc, then reopen with the inner disc accessible.

Repeat and Shuffle

You can select and change the various play modes before or during playback.

Repeat play

1 Press **REPEAT** on the remote control repeatedly to select :
➜ "𝑇𝑅𝐴𝐶𝐾" – to repeat playback of the current track.
➜ "𝐷𝐼𝑆𝐶" – to repeat playback of the current disc.
➜ "𝐴𝐿𝐿" or "𝑃𝑅𝑂𝐺𝑅𝐴𝑀" – to repeat playback of all available discs or programmed tracks.

2 To resume normal playback, press **REPEAT** until "𝑅𝐸𝑃𝐸𝐴𝑇 𝑂𝐹𝐹" is displayed.
➜ **REP** is shown, except for REPEAT OFF mode.

Random play

1 Press **SHUFFLE** on the remote control.
➜ **SHUF** is shown and "𝑆𝐻𝑈𝐹𝐹𝐿𝐸" is displayed.
➜ All the available discs or programmed tracks (if programme is active) will be played in random order.

2 To resume normal playback, press **SHUFFLE** again.
➜ **SHUF** disappears.

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Notes:
– During programme play or shuffling mode, it is not possible to repeat playback the current disc (Repeat Disc mode).
– Pressing the OPEN/CLOSE button will cancel all repeat and shuffling modes.

Programming the disc tracks

Programming tracks is possible when playback is stopped. Up to 40 tracks can be stored in the memory in any order.

1 Load the desired discs on the disc tray (refer to "Loading discs").

2 Press **PROGRAM** to start programming.
➜ **PROG** starts flashing.

3 Press **CD 1/2/3** to select a disc.

4 Press |◀ or ▶| repeatedly to select the desired track.

5 Press **PROGRAM** to store the track.

● Repeat *steps 3–5* to store other discs and tracks.

6 To end programming, press ■ **once** .
➜ **PROG** stays and the programme mode remains active.
➜ The total number of tracks programmed and the total playing time are displayed.

7 To start programme play, press ▶II .
➜ "*PLAY PROGRAM*" is displayed.

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 "- -:- -" is displayed instead of the total playing time.
– If you attempt to programme more than 40 tracks, "FULL" is displayed.
– During programming, if no button is pressed within 20 seconds, the system will exit the programme mode automatically.

To review the programme
● Stop playback and press |◀ or ▶| repeatedly.
● To exit review mode, press ■ .

Erasing the programme

● Press ■ **once** when playback is stopped or **twice** during playback.
➜ **PROG** disappears and "*PROGRAM CLEARED*" is displayed.
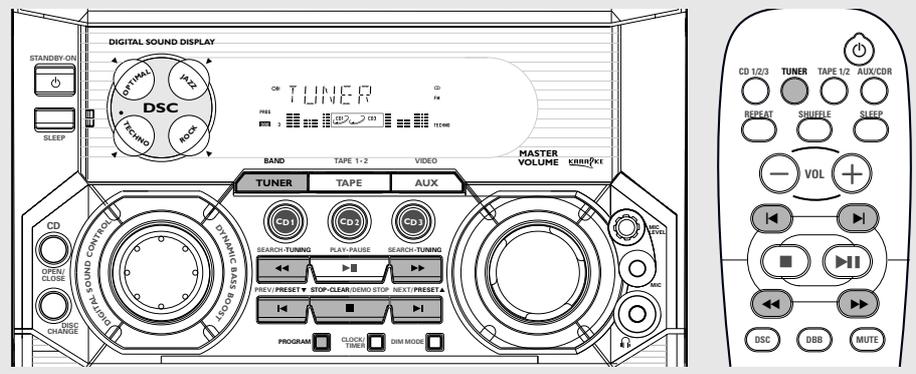
Note:
– The programme will be erased when the system is disconnected from the power supply or when the disc tray is opened.

For Recording, please refer to "Tape Operation/Recording".

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Radio Reception

Tuning to radio stations

1 Press **TUNER** to select TUNER mode.
➔ "TUNER" is displayed. A few seconds later, the current radio frequency will appear on the display.
➔ If an FM station is received in stereo, ∞ is displayed.

2 Press **TUNER** again to select the desired waveband : FM or MW.

3 Press and hold ◀◀ or ▶▶ until the frequency indication starts to change, then release.
➔ The display will show "SEARCH" until a radio station with sufficient signal strength is found.

4 Repeat step **3** if necessary until you find the desired radio station.

● To tune to a weak station, press ◀◀ or ▶▶ briefly and repeatedly until optimal reception found.

Storing preset radio stations

You can store up to 40 preset radio stations in the memory.

Automatic Preset Programming

● Plug and Play setting (refer to "Basic Functions - Plug and Play").
OR

1 Press **TUNER** to select TUNER mode.

To begin automatic preset from a desired preset number

● Press ◀◀ or ▶▶ to select the desired preset number.
➔ If a radio station has been stored in one of the presets, it will not be stored again under another preset number.

2 Press and hold **PROGRAM** until "AUTO" is displayed.
➔ **PROG** starts flashing.
➔ All available radio stations with sufficient signal strength will be stored automatically, starting from FM and followed by MW band.
➔ When all the available radio stations are stored or the memory for 40 presets are used, the last preset radio station will be played.

To stop storing the automatic preset

● Press **PROGRAM** or ■ on the system.

Note:
– If no preset number is selected, automatic preset will begin from preset (1) and all your former presets will be overridden.

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Manual Preset Programming

1 Tune to your desired radio station (refer to "Tuning to radio stations").

2 Press **PROGRAM**.

→ **PROG** starts flashing.

→ The next available preset number is displayed for selection.

To store the radio station to another preset number

● Press |◀ or ▶| to select the desired preset number.

3 Press **PROGRAM** again to store the radio station.

→ **PROG** disappears.

● Repeat *steps 1–3* to store other radio stations.

To exit manual preset mode

● Press ■ on the system.

Notes:

– If you attempt to store more than 40 preset radio stations, "FULL" is displayed.

– During programming, if no key is pressed within 20 seconds, the system will exit the programme mode automatically.

Tuning to preset radio stations

● Once you've programmed the radio stations, press |◀ or ▶| to select the desired preset number.

→ The preset number, radio frequency, and waveband are displayed.

Erasing a preset radio station

1 Press |◀ or ▶| to select the preset radio station to be erased.

2 Press and hold ■ on the system until "PRESET DELETED" is displayed.

→ The deleted radio frequency remains on the display.

→ The preset numbers of all other preset radio stations in the band with higher numbers are also decreased by one.

● Repeat *steps 1–2* to erase other preset radio stations.

Changing tuning grid *(not available for all versions)*

In North and South America, the frequency step between adjacent channels in the MW band is 10 kHz (9 kHz in some areas). The preset frequency step in the factory is 9 kHz.

Changing the tuning grid will erase all previously stored preset radio stations.

1 Disconnect the system from the AC power supply (pull out the AC power cord).

2 While holding down **TUNER** and ▶▶ on the system, reconnect the system to the AC power supply.

→ The display will show "GRID 9" or "GRID 10".

Notes:

– GRID 9 and GRID 10 indicate that the tuning grid is in step of 9 kHz and 10 kHz respectively.

– The FM tuning grid also will be changed from 50 kHz to 100 kHz or vice versa.

For Recording, please refer to "Tape Operation/Recording".

English

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Tape Operation / Recording

(figure of stereo system and remote control)
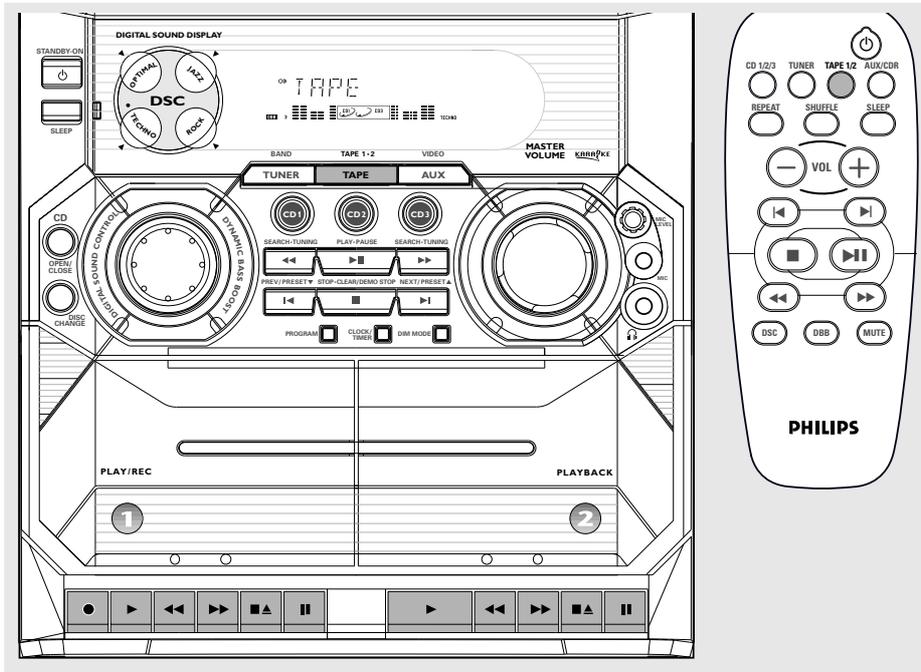
IMPORTANT!

– Before playing a tape, check and tighten slack tape 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, a transformer, TV or speaker).

Loading tape

1 Press **TAPE** to select TAPE mode.
➜ "*TAPE*" is displayed.

2 Press ■▲ to open the tape deck door.

(figure showing cassette loading into tape deck)
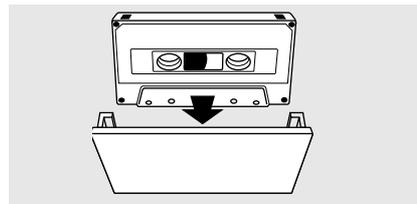
3 Load the tape with the open side downward and full spool to the left.

4 Close the tape deck door.

Playing tapes

To playback a selected tape deck

● Press ▶ on tape deck 1 or 2.
 → The tape will stop at the end of playback.

Continuous playback of two tapes

1 Load the tapes in tape deck 1 and 2.

2 Press ▶ on tape deck 2.

3 Press II on tape deck 1, followed by ▶ .
 → Playback will begin from tape deck 2 and continue with tape deck 1. It will stop at the end of tape deck 1.

To interrupt playback

● Press II.

● To resume playback, press II again.

To stop playback

● Press ■▲.

Rewinding / Fast forwarding

1 Stop playback, press ◀◀ or ▶▶.
 → The tape will stop automatically at the end of rewinding or fast forwarding.

2 Press ■▲ to stop rewinding or fast forwarding.

Note:
– During rewinding or fast forwarding of a tape, it is also possible to select another source (CD or TUNER, for example).

General information on recording

● 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 recording level is set automatically, regardless of the position of the Volume, DBB, DSC and so forth.
● The tape is secured at both ends with leader tape. At the beginning and end of the tape, nothing will be recorded for six to seven seconds.
● To prevent accidental recording, break out the tab on the left shoulder of the tape side you want to protect.
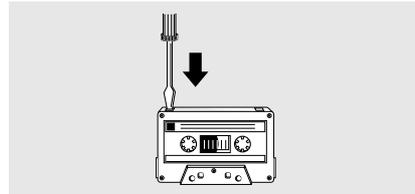
IMPORTANT!
– Recording is permissible if copyright or other rights of third parties are not infringed upon.
– Recording is possible only on tape deck 1.

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Tape Operation / Recording

Preparation for recording

1 Load a recordable tape into tape deck 1 with full spool to the left.

2 Prepare the source to be recorded.
CD 1/2/3 – load the disc(s).
TUNER – tune to the desired radio station.
TAPE – load the prerecorded tape into tape deck 2 with the full spool to the left.
AUX – connect external equipment.

When recording is in progress
➔ **REC** starts flashing.

● It is not possible to listen to another source.

● It is not possible to activate the timer function during recording or tape dubbing.

One touch recording / Recording the mixed sound *(not available for all versions)*

1 Press **CD 1/2/3** , **TUNER** or **AUX** to select the source.

● You can connect a microphone to record the mixed sound (refer to "Karaoke - Microphone Mixing").

2 Start playback of the selected source.

3 Press ● on tape deck 1 to start recording.

To stop recording
● Press ■▲ on tape deck 1.

CD Synchronised start recording

1 Press **CD 1/2/3** to select the disc.

● You can programme the tracks in the order you want them to be recorded (refer to "CD Operation - Programming the disc tracks").

2 Press ● on tape deck 1 to start recording.
➔ The disc will start playback automatically.

To stop recording
● Press ■▲ on tape deck 1, then press ■ to stop disc playback.

Note:
– During CD synchronised start recording, do not fast forward/rewind the tape in tape deck 2.

Dubbing tapes

1 Load the prerecorded tape in tape deck 2.

● Make sure both tapes have their full spool to the left.

2 Press ❙❙ on tape deck 1 and followed by ●.

3 Press ▶ on tape deck 2.
➔ Recording will start automatically.

● Dubbing of tapes is possible on one side of the tape only. To continue recording on the reverse side, at the end of side A, flip the tape to side B and repeat the procedure.
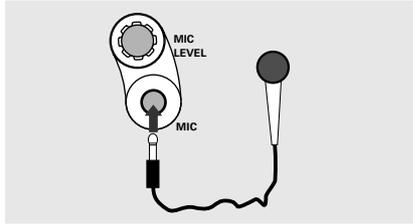
To stop dubbing
● Press ■▲ on tape deck 1 and 2.

Notes:
– Dubbing of tapes is possible only from tape deck 2 to tape deck 1.
– To ensure good dubbing, use tapes of the same length.

Microphone mixing

Connect a microphone (not supplied) to the system allowing you to sing along with the music source.

1 Connect a microphone to the **MIC** jack.

● Before connecting the microphone, set the microphone **MIC LEVEL** to the minimum level to prevent howling sound.

2 Press **CD 1/2/3**, **TUNER**, **TAPE** or **AUX** to select the source to be mixed and start playback.

3 Adjust the volume level of the source with **MASTER VOLUME** control.

4 Adjust the microphone volume with microphone **MIC LEVEL** control.

Note:
– Keep the microphone away from the speakers to prevent howling.

For Recording, please refer to "Tape Operation/Recording".

External Sources
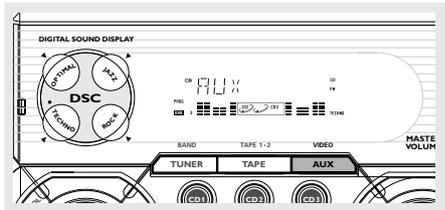
Listening to external sources

1 Connect the audio out terminals of the external equipment (TV, VCR, Laser Disc player, DVD player or CD Recorder) to the **AUX/CDR IN** terminals of your system.

2 Press **AUX** (VIDEO) (or **AUX/CDR** on the remote control) to select external equipment.
➜ "ΑЦХ" is displayed.

Notes:
– All the sound control features (DSC or DBB, for example) are available for selection.
– Refer to the operating instructions for the connected equipment for details.

For Recording, please refer to "Tape Operation/Recording".

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Clock/Timer

View clock

The clock (if it is set) will be shown in standby mode.

To view the clock in any source mode (CD or TUNER for example)

● Press **CLOCK/TIMER**.
➜ The clock is displayed for a few seconds.
➜ If the clock has not been set, "-- : --" is displayed.

Clock setting

The clock can be set in either 12-hour or 24-hour mode (" 12:00 **AM**" or "00:00" for example)

1 In standby or view clock mode, press **CLOCK/TIMER once**. In other source mode, press **CLOCK/TIMER twice**.

2 Press **PROGRAM** repeatedly to select clock mode.
➜ " 12:00 **AM**" or "00:00" starts flashing.

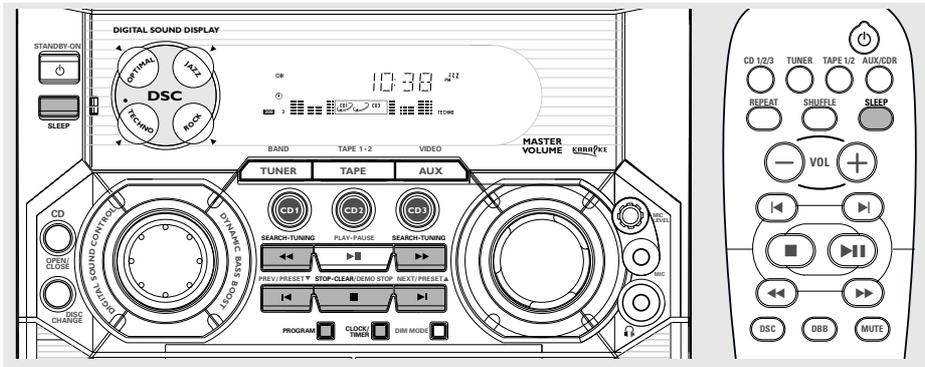**3** Press ◀◀ or ▶▶ on the system repeatedly to set the hour.

4 Press ◀◀ or ▶▶ on the system repeatedly to set the minute.

5 Press **CLOCK/TIMER** again to store the setting.
➜ The clock starts working.

To exit without storing the setting

● Press ■ on the system.

Notes:
– The clock setting will be cancelled when the power cord is disconnected or if a power failure occurs.
– During clock setting, if no button is pressed within 90 seconds, the system will exit clock setting mode automatically.

Timer setting

The system can switch on to CD or TUNER mode automatically at a preset time, serving as an alarm to wake you up.

IMPORTANT!
– Before setting the timer, ensure that the clock is set correctly.
– The timer will always be switched on after it has been set.
– The timer will not start if a recording is in progress.
– The volume of the timer will increase gradually from the minimum level to the last tuned volume level.

1 Press and hold **CLOCK/TIMER** for more than **two seconds** to select timer mode.
➜ "TU__XX:XX" or "CD__XX:XX" starts flashing. "XX:XX" indicates the timer or the last timer setting.
➜ ⏰ starts flashing.

2 Press **CD 1/2/3**, **TUNER** or **PROGRAM** to select the desired source.
➜ "ᒼᗝ [or ᒿ, ᗩ] ᙭᙭:᙭᙭" indicates the CD mode is selected.
➜ "ᒿᑌ ᙭᙭:᙭᙭" indicates the Tuner mode is selected.
➜ "ᑭᖇᓍ� ᙭᙭:᙭᙭" indicates the CD programme mode is selected.

● Before setting timer, make sure the music source has been prepared.
CD 1/2/3 – Load the disc(s). To start from a specific track, make a programme (refer to "CD Operation - Programming the disc tracks").
TUNER – tune to the desired radio station.

3 Press ◀◀ or ▶▶ on the system repeatedly to set the hour for the timer to start.

4 Press ◀ or ▶ on the system repeatedly to set the minute for the timer to start.

5 Press **CLOCK/TIMER** to store the timer.
➜ "ᒿ᙭ᗰᕮᖇ ᓍᘉ" is displayed, followed by the set timer "᙭᙭:᙭᙭" and the selected source.
➜ ⏱ remains on the display.

● At the preset time, the selected source will play.

To exit without storing the setting
● Press ■ on the system.

Notes:
– When the preset time is reached and the selected disc tray is empty, the next available disc will be selected. If all the disc trays are not available, Tuner will be selected automatically.
– During timer setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.

Deactivating the timer

1 Press and hold **CLOCK/TIMER** for more than **two seconds**.

2 Press ■ on the system to cancel the timer.
➜ "ᒼᗩᘉᒼᕮᒪ" is displayed and the ⏱ disappears.

Activating the timer *(for the same preset time and source)*

1 Press and hold **CLOCK/TIMER** for more than **two seconds**.

2 Press **CLOCK/TIMER** again to store.
➜ The last set timer information is displayed for a few seconds and ⏱ is shown.

Sleep timer setting

The sleep timer enables the system to switch to standby mode automatically at a preset time.

1 Press **SLEEP** repeatedly to select a preset time.
➜ The selections are as follows (time in minutes):
 $15 \rightarrow 30 \rightarrow 45 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow$
 $OFF \rightarrow 15 \ldots$
➜ "ᔕᒪᕮᕮᑭ ᙭᙭" or "ᓍᖴᖴ" is displayed. "᙭᙭" is the time in minutes.

2 When you reach the desired length of time, stop pressing the **SLEEP** button.
➜ ᙆᙆᙆ is shown, except for "ᓍᖴᖴ" mode.
➜ The sleep timer is now set. Before the system switches to standby mode, a countdown of 10 seconds is displayed.
 "ᔕᒪᕮᕮᑭ ᗝᓍ" → "ᔕᒪᕮᕮᑭ ᗩ".... → "ᔕᒪᕮᕮᑭ ᗝ"
 → "ᔕᒪᕮᕮᑭ"

To check the remaining length of time after sleep timer is activated
● Press **SLEEP once**.

To change the preset sleep timer
● Press **SLEEP** again while the remaining sleep timer is shown.
➜ The display will show the next sleep timer options.

To deactivate the sleep timer
● Press **SLEEP** repeatedly until "ᓍᖴᖴ" is displayed, or press the **STANDBY ON** button.

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Specifications

AMPLIFIER

Output power .... 1500 W PMPO
.... 2 × 40 W RMS[1]
Signal-to-noise ratio .... ≥ 67 dBA (IEC)
Frequency response .... 50 – 15000 Hz
Input sensitivity
  AUX/CDR In .... 500 mV / 1V
  Microphone .... 3.5 mV
Output
  Speakers .... ≥ 6 Ω
  Headphones .... 32 Ω – 1000 Ω
(1) (6 Ω, 1 kHz, 10% THD)

CD PLAYER

Number of programmable tracks 40
Frequency response .... 20 – 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 PLAYER

Frequency response
  Normal tape (type I) ...... 80 – 12500 Hz (8 dB)
Signal-to-noise ratio
  Normal tape (type I) .... ≥ 48 dBA
Wow and flutter .... ≤ 0.35% DIN

SPEAKERS

System .... double port bass reflex
Impedance .... 6 Ω
Woofer .... 1 × 5 1/4" full range
Dimensions (w × h × d) . 210 × 310 × 235 (mm)
Weight .... 3.1 kg each

GENERAL

Material/finish .... Polystyrene
AC Power
  For Version /21-21M .. 110 – 127 / 220 – 240 V;
  .... 50/60 Hz Switchable
  For Version /30 .... 230 – 240 V; 50 Hz
Power Consumption
  Active .... 70 W
  Standby .... < 15 W
Dimensions (w × h × d) ..... 265× 310× 365 (mm)
Weight (without speakers) .... 6.4 kg

Specifications and external appearance are subject to change without notice.

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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 centre out. Do not wipe in circular motion.
● Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.

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

Cleaning the Heads and the Tape Paths
● To ensure good recording and playback quality, clean the heads Ⓐ and Ⓑ, 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 also can clean the heads by playing a cleaning tape once.

Ⓐ   Ⓑ Ⓒ Ⓓ
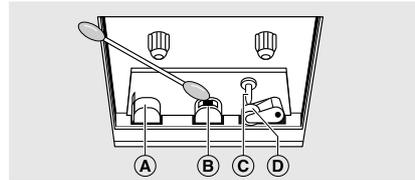
Demagnetising the heads
● Use a demagnetising tape available at your dealer.

Troubleshooting

WARNING
Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to solve a problem by following these hints, consult your dealer or service centre.

Problem	Solution
CD OPERATION	
"ｎｏ ＤＩＳＣ" **is displayed.**	– Insert a disc. – Check if the disc is inserted upside down. – Wait until the moisture condensation at the lens has cleared. – Replace or clean the disc, see "Maintenance".
"ＤＩＳＣ ＮＯＴ ＦＩＮＡＬＩＺＥＤ" **is displayed.**	– Use a finalised CD-RW or CD-R.

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Troubleshooting

RADIO RECEPTION

Radio reception is poor.	– If the signal is too weak, adjust the antenna or connect an external antenna for better reception. – Increase the distance between the Mini HiFi System and your TV or VCR.

TAPE OPERATION/RECORDING

Recording or playback cannot be made.	– Clean deck parts, see "Maintenance". – Use only NORMAL (IEC I) tape. – Apply a piece of adhesive tape over the missing tab space.

GENERAL

The system does not react when buttons are pressed.	– Remove and reconnect the AC power plug and switch on the system again.
Sound cannot be heard or is of poor quality.	– Adjust the volume. – Disconnect the headphones. – Check that the speakers are connected correctly. – Check if the stripped speaker wire is clamped.
The left and right sound outputs are reversed.	– Check the speaker connections and location.
The remote control does not function properly.	– Select the source (CD 1/2/3 or TUNER, for example) before pressing the function button (▶ , ◀◀ , ▶▶). – Reduce the distance between the remote control and the system. – Insert the batteries with their polarities (+/– signs) aligned as indicated. – Replace the batteries. – Point the remote control directly towards the IR sensor .
The timer is not working.	– Set the clock correctly. – Press and hold CLOCK/TIMER to switch on the timer. – If recording or tape dubbing is in progress, stop recording.
The Clock/Timer setting is erased.	– Power has been interrupted or the power cord has been disconnected. Reset the clock/timer.
The system displays features automatically.	– Press and hold ■ on the system to switch off the demonstration.