MP3-CD
Mini Hi-Fi System

FW-*M355*

Read this manual first!

Congratulations on purchasing this Philips product.
We've included everything you need to get started.
If you have any problems, Philips Representatives can
help you get the most from your new product by explaining:
• Hookups,
• First Time Setup, and
• Feature Operation.
Do not attempt to return this product to the store.

For fast help, call us first!
1-800-531-0039

Thank you for making Philips a part of your home!

STOP!

IMPORTANT!
Return
your Warranty
Registration Card
within 10 days
SEE WHY INSIDE

Let's make things better.

PHILIPS

Canada

English:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Français:

Cet appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

This warning label is located on the rearside and inside this laser product.

CAUTION: INVISIBLE LASER RADIATION. WHEN OPEN. DO NOT STARE INTO BEAM.

DANGER: INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

VARO! AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINANAKYMATTOMAALLE LASERSATEILYLLE. ALA KATSO SATEESEEN.

VARNING! OSYNLIG LASERSTRÄLNING NÄR DENNA DEL. ÄR ÖPPNAD. OCH SPARREN AR URKOPPLAD.BETRAKTA EJ STRÄLEN.

or

DANGER - Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION

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

ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-incluses peuvent se traduire par une exposition dangereuse à l'irradiation.
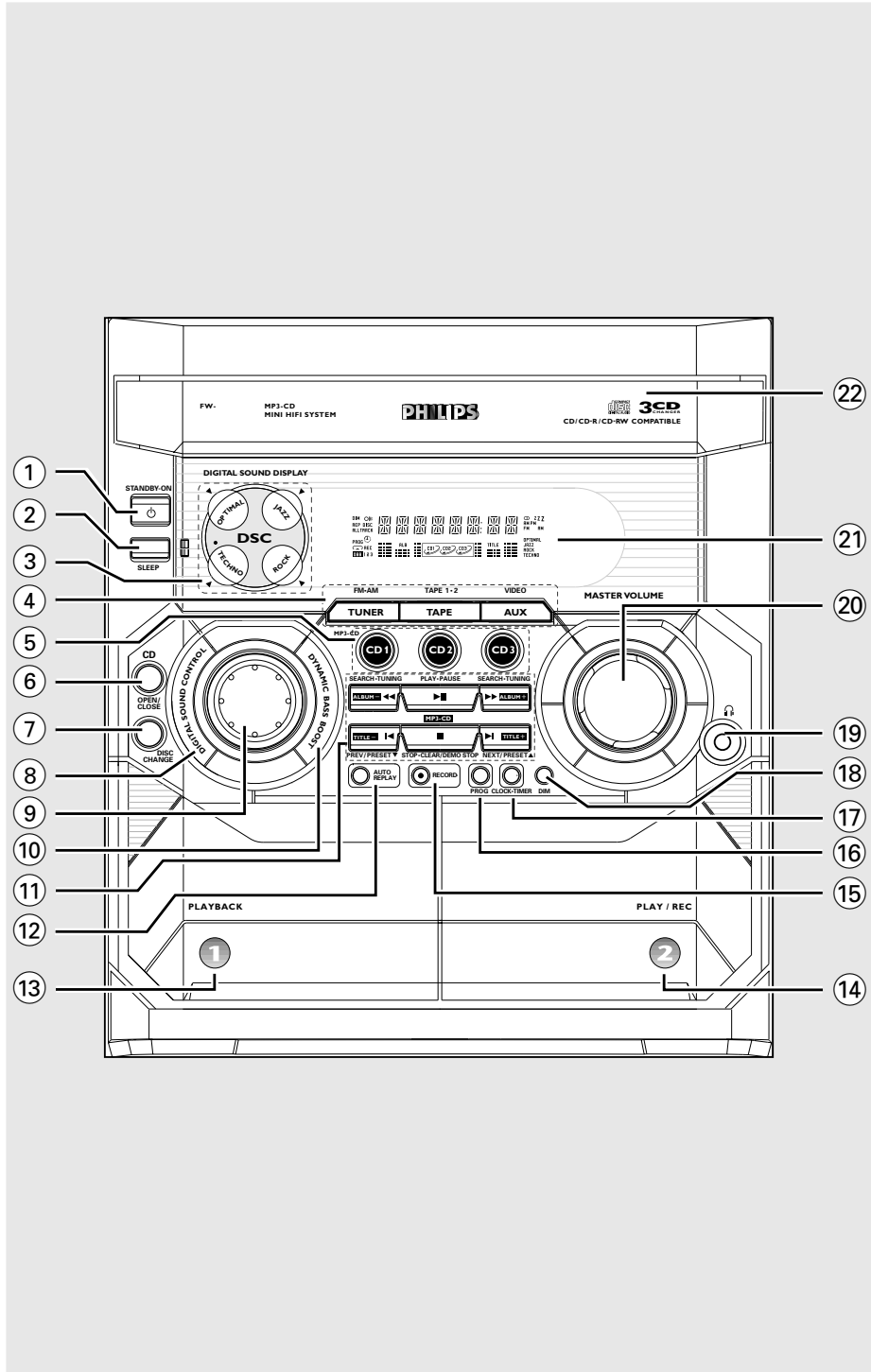
ATENCIÓN

El uso de mando o ajustes o la ejecucción de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

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FW- MP3-CD
MINI HIFI SYSTEM

PHILIPS

3CD CHANGER
CD/CD-R/CD-RW COMPATIBLE

DIGITAL SOUND DISPLAY

STANDBY-ON

SLEEP

OPTIMAL JAZZ

DSC

TECHNO ROCK

FM-AM TAPE 1-2 VIDEO

MASTER VOLUME

TUNER TAPE AUX

MP3-CD

CD 1 CD 2 CD 3

SEARCH-TUNING PLAY-PAUSE SEARCH-TUNING

ALBUM◄ ◄◄   ►II   ►► ►ALBUM

CD

OPEN/
CLOSE

MP3-CD

DISC
CHANGE

TITLE◄ I◄◄   ■   ►►I TITLE►

DYNAMIC BASS BOOST

DIGITAL SOUND CONTROL

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

AUTO
REPLAY

RECORD PROG CLOCK·TIMER DIM

PLAYBACK

1

PLAY / REC

2

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

- *Once your Philips purchase is registered, you're eligible to receive all the privileges of owning a Philips product.*

- *So complete and return the Warranty Registration Card enclosed with your purchase at once, and take advantage of these important benefits.*

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your Philips warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Know these safety *symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

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

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

MAC5097

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PHILIPS

Congratulations on your purchase, and welcome to the "family!"

Dear Philips product owner:

Thank you for your confidence in Philips. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the Philips "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome – and thanks for investing in a Philips product.

Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your Philips product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

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IMPORTANT SAFETY INSTRUCTIONS

1. **Read these instructions.**

2. **Keep these instructions.**

3. **Heed all warnings.**

4. **Follow all instructions.**

5. **Do not use this apparatus near water.**

6. **Clean only with a dry cloth.**

7. **Do not block any ventilation openings. Install in accordance with the manufacturer´s instructions.**

8. **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. **Do not defeat the safety purpose** of the polarized or grounding-type plug. **AC Polarized Plug** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. **Only use attachments/accessories** specified by the manufacturer.
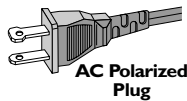
12. **Use only with the cart,** stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. **Unplug this apparatus** during lightning storms or when unused for long periods of time.

14. **Refer all servicing** to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. **Battery usage CAUTION** – To prevent battery leakage which may result in bodily injury or damage to the unit:

● Install **all** batteries correctly, **+** and **-** as marked on the unit.

● Do not mix batteries (**old** and **new** or **carbon** and **alkaline**, etc.).

● Remove batteries when the unit will not be used for a long time.

EL 6475-E003: 01/6

Class II equipment symbol
This symbol indicates that the unit has a double insulation system

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Contents

This system complies with the FCC rules, Part 15 and with 21 CFR 1040.10. Operation is subject to the following two conditions:
– This device may not cause harmful interference, and
– This device must accept any interference received, including interference that may cause undesired operation.

Supplied accessories

– 2 speaker boxes
– remote control
– batteries (two AA size) for 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 specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Safety information

● 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.**

About MP3 disc

Supported formats

– ISO9660, Joliet, Multisession
– Max. track number plus album is 255
– Max. nested directory is 8 levels
– The max. album number is 32
– The max. MP3 program track number is 99
– Supported VBR bit-rate
– Supported sampling frequencies for MP3 disc are: 32 kHz, 44.1 kHz, 48 kHz
– Supported Bit-rates of MP3 disc are: 32, 64, 96, 128, 192, 256 (kbps)

Making your own MP3-CD

1 Rip the music from your own Digital Audio CDs or download legal MP3 music from the Internet.

2 Record ("burn") the music on CD-R(W) disc with your home PC. Make sure to use a recording speed not faster than indicated on the CD-R(W) and avoid running other program simultaneously on your PC during the recording process.
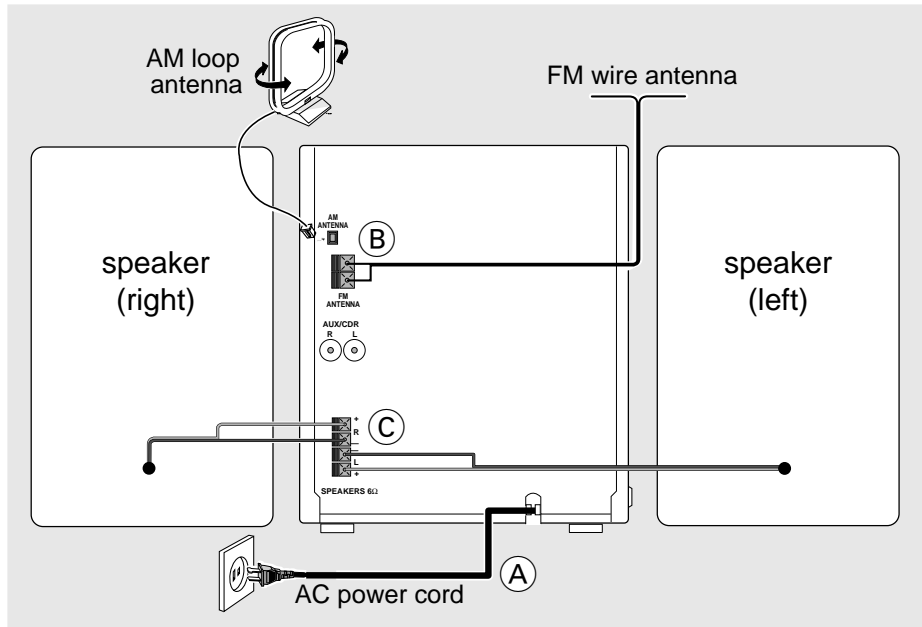
Sound Quality

Take note that MP3-CD compilations should best contain only MP3 tracks (*.mp3). **To achieve a good MP3 quality, a bit rate of 128 kbps is recommended.**

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Preparations

English

AM loop
antenna

FM wire antenna

speaker
(right)

AM
ANTENNA

B

FM
ANTENNA

AUX/CDR
R   L

C

SPEAKERS 6Ω

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 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

① ②

AM ANTENNA

Fix the claw
to the slot

③
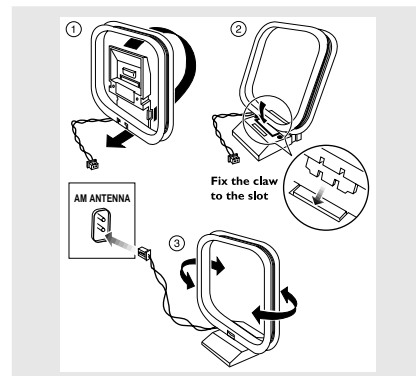
● Position the antenna as far as possible from a TV, VCR or other radiation source.

FM Antenna

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

Ⓒ Speakers Connection

Front Speakers

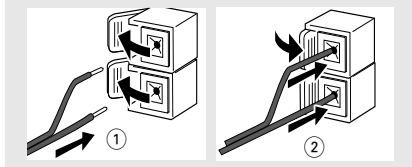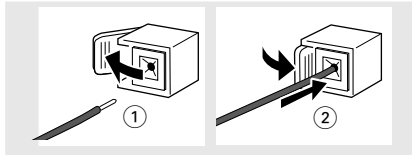Connect the speaker wires to the SPEAKERS terminals, right speaker to "**R**" and left speaker to "**L**", colored (marked) wire to "**＋**" and black (unmarked) wire to "**－**".

● 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 R06 or AA into the remote control with the correct polarity as indicated by the "**＋**" and "**－**" symbols inside the battery compartment.
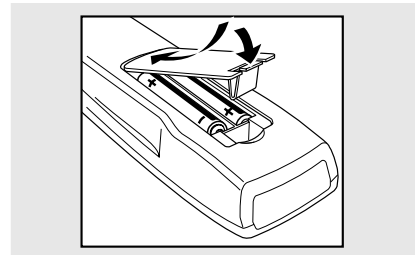
CAUTION!
– Remove batteries if they are exhausted or will not be used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed off properly.

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Controls *(main system's illustration 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** (FM•AM)
– to select waveband : FM or AM.

   TAPE (TAPE 1/2)
– to select tape deck 1 or 2.

   AUX (VIDEO)
– 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 **Mode Selection**
   PLAY•PAUSE ▶❚❚
   for CD/MP3-CD…to start or interrupt playback.
   for Tape .... to start playback.
   for Plug & Play…*(on the system only)* to initiate and start plug & play mode.

   SEARCH•TUNING ◀◀ **(ALBUM** − **)**
   SEARCH•TUNING ▶▶ **(ALBUM** + **)**
   for MP3-CD ..... to select previous/next album.
   for CD .... to search backward/forward.
   for Tuner .... to tune to a lower or higher radio frequency.
   for Tape .... to rewind or fast forward.
   for Clock .... *(on the system only)* to set the hour.

   STOP•CLEAR / DEMO STOP ■
   for CD/MP3-CD…to stop playback or to clear a program.
   for Tuner .... *(on the system only)* to stop programming or to erase a selected preset.
   for Tape .... to stop playback or recording.
   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 ❙◀ **/ PRESET** ▼ **(TITLE** − **)**
   NEXT ▶❙ **/ PRESET** ▲ **(TITLE** + **)**
   for MP3-CD ..... to select previous/next title.
   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.

⑫ **AUTO REPLAY**
– to select continuous playback in either AUTO REPLAY or ONCE mode only.

⑬ **Tape deck 1**

⑭ **Tape deck 2**

⑮ **RECORD**
– to start recording on tape deck 2.

(16) **PROG**

for CD/MP3-CD…to program disc tracks.
for Tuner .... to program preset radio stations.
for Clock .... to select 12- or 24-hour clock
mode.

(17) **CLOCK•TIMER**

– to view the clock, set the clock or set the timer.

(18) **DIM**

– to select different brightness for the display
screen : DIM 1, DIM 2, DIM 3 or DIM OFF.

(19) 🎧

– to connect headphones.

(20) **MASTER VOLUME (VOLUME +/−)**

– to increase or decrease the volume.

(21) **Display screen**

– to view the current status of the system.

(22) **Disc tray**

(23) **MUTE**

– to interrupt or resume sound reproduction.

(24) **DISPLAY** (ALBUM)

– to display the album of MP3 disc.

(25) **DISPLAY** (TITLE)

– to display the title (track) of MP3 disc.

(26) **REPEAT**

– to playback track/disc/program repeatedly.

(27) **Numeric keys (0 – 9)**

*(numbers consisting more than two figures must be
keyed in within 2 seconds.)*

– to direct key in a track number for CD/MP3-CD.

(28) ⏻

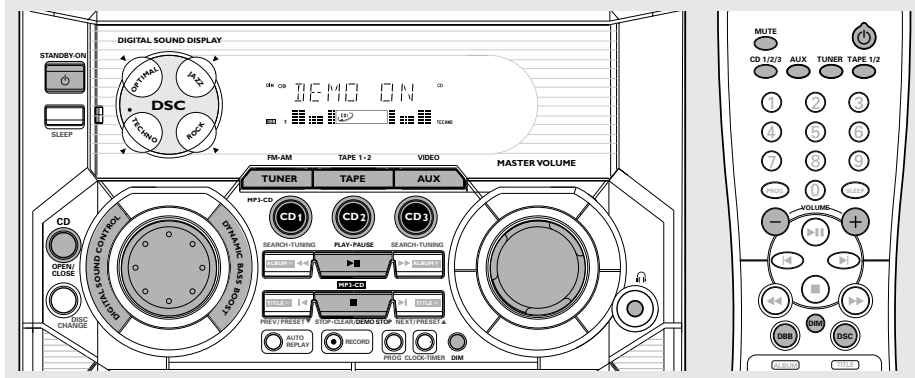– to switch the system to standby mode.
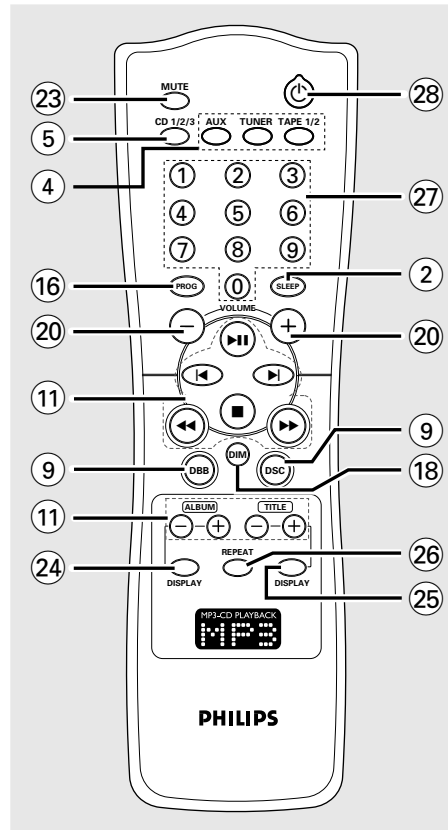
Notes for remote control:
*– First select the source you wish to control
by pressing one of the source select keys on
the remote control (for example CD 1/2/3,
TUNER).*
*– Then select the desired function (for
example ▶, I◀, ▶I).*

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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 AM 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 initialize 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.

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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**.

● 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** repeatedly to select DIM 1, DIM 2, DIM 3 or DIM OFF display mode.
➔ **DIM** is shown, except for DIM OFF mode.

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

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

Volume control

Adjust **MASTER VOLUME** (or press **VOLUME** + 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.
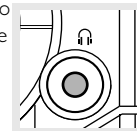
To switch off the volume temporarily

● 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 equalizer 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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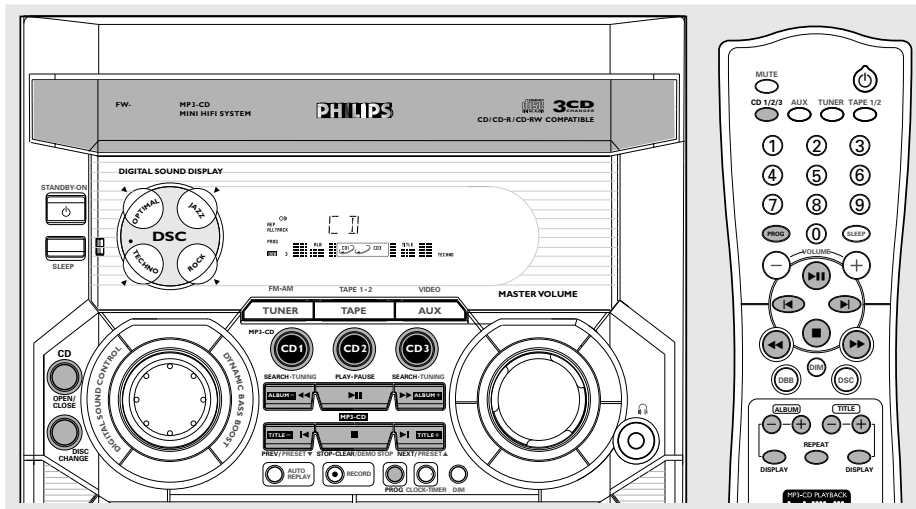
IMPORTANT!

– This system is designed for regular discs. Therefore, do not use any accessories such as disc stabilizer 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 is able to play :

– All pre-recorded audio CDs
– All finalized audio CDR and audio CDRW discs
– MP3-CDs (CD-ROMs with MP3 tracks)

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.
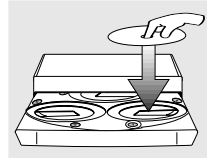
3 Press **OPEN/CLOSE** to close the disc tray.

➜ "READING" is displayed. The selected disc tray, total number of tracks and the playing time will appear on the display.

➜ **For MP3 disc**, the name of the first album and title will be scrolled through the display once and followed by "Axx Txxx".

Notes:

– Load the discs with the label side facing up.

– For MP3 disc, the disc reading time may exceed 10 seconds due to the large number of songs compiled into one disc.

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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.
→ **For MP3 disc**, TITLE is shown. For mixed mode discs, only one mode will be selected for playback depending on the recording format.

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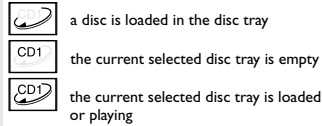● In CD mode, press **CD 1**, **CD 2** or **CD 3** on the system.
→ The selected disc will play once, then stop.

To interrupt playback
● Press ▶II.
→ The current track time flashes.
● To resume playback, press ▶II again.

To stop playback
● Press ■.

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.

Selecting a desired track/passage

To search for a particular passage during playback
1 Press ◀◀ or ▶▶ until the desired passage is located.
2 Press ▶II to resume normal playback.

To select a desired track
● Press I◀ or ▶I repeatedly (or **numeric keys 0-9** on the remote control) until the desired track is displayed.
● If playback is stopped, press ▶II to start playback.

Selecting a desired Album/Title (MP3 disc only)

To select a desired album
● Press **ALBUM** −/+ (◀◀ or ▶▶) repeatedly.
→ ALB starts flashing and the album's name will scroll through the display once.

To select a desired title
● Press **TITLE** −/+ repeatedly (I◀ / ▶I or **numeric keys 0-9**).
→ TITLE starts flashing and the title's name will scroll through the display once.

Note:
– The album and title will only be displayed once when selected. To view again, press the respective DISPLAY button on the remote control.

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

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.
→ "PROGRAM" – to repeat playback of the programmed tracks.

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

Notes:
– During program play mode, it is not possible to repeat playback the current disc (Repeat Disc mode).
– Pressing the ■ button will cancel all repeat modes.

Programming the disc tracks

Programming tracks is possible when playback is stopped. Up to 99 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 **CD 1/2/3** to select a disc.

3 Press **PROG** to start programming.
→ **PROG** starts flashing.

4 Press |◄ or ►| repeatedly (or **numeric keys 0-9** on the remote control) to select the desired track.

● For MP3 disc, press **ALBUM** −/＋ and **TITLE** −/＋ to select the desired album and title for programming.

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

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

6 To end programming, press ■ **once** .
→ **PROG** stays and the program mode remains active.
→ The total number of tracks programmed and the total playing time are displayed.
→ **For MP3 disc**, total playing time will not be shown.

7 To start program play, press ►II .
→ "*PLAY PROGRAM*" is displayed.

Notes:
– It is not possible to create a program with MP3 tracks from multiple CDs, or combined with normal audio tracks.
*– If the total playing time is more than "*99:59*" then "*- - : - -*" is displayed instead of the total playing time.*
*– If you attempt to program more than 99 tracks, "*FULL*" is displayed.*
– During programming, if no button is pressed within 20 seconds, the system will exit the Program mode automatically.

To review the program

● Stop playback and press |◄ or ►| repeatedly.

● To exit review mode, press ■ .

Erasing the program

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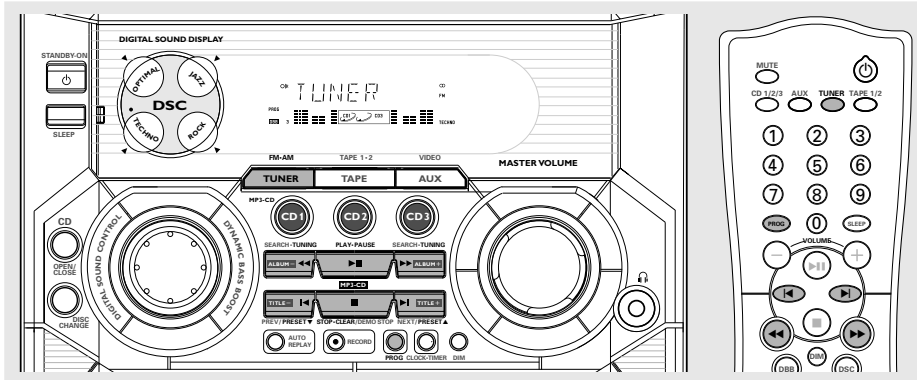
Note:
– The program will be erased when the system is disconnected from the power supply or when the disc tray is opened.

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 AM.

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 �I◀ or ▶I 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 **PROG** 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 AM 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.

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To stop storing the automatic preset
● Press **PROG** 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.

Manual Preset Programming

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

2 Press **PROG**.
➜ **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 **PROG** 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 Program 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.

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

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Tape Operation / Recording
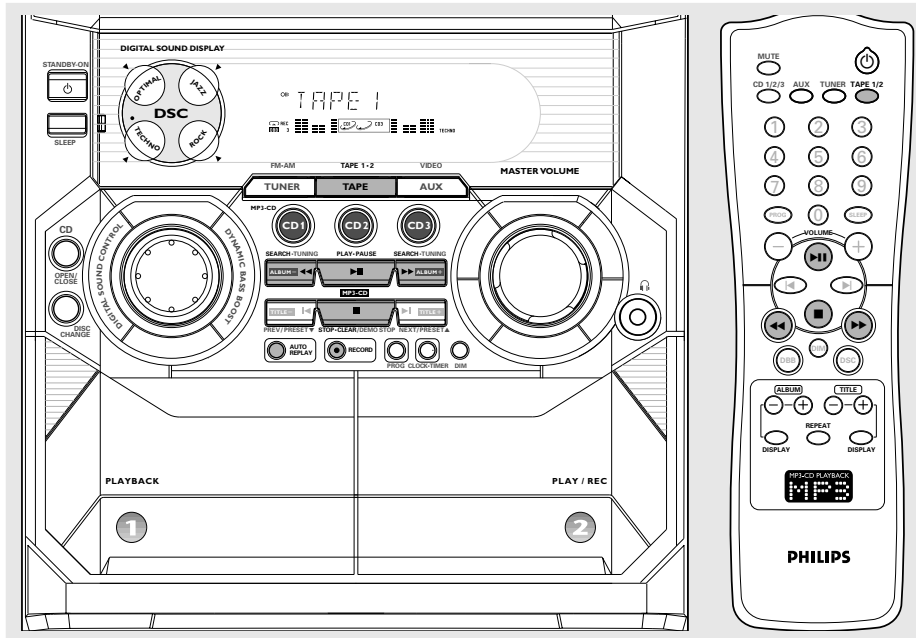
IMPORTANT!
– Before playing a tape, check and tighten slack tape with a pencil. Slack tape may get jammed or may burst in the mechanism.
– C-120 tape is extremely thin and is easily deformed or damaged. It is not recommended for use in this system.
– Store the tapes at room temperature and do not put them too close to a magnetic field (for example, a transformer, TV or speaker).

Loading tape

1 Press on the tape deck to open the tape deck door.

2 Load the tape with the open side downward and full spool to the left.

3 Close the tape deck door.
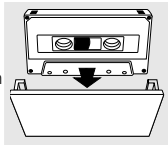
Playing tapes

To playback a selected tape deck

1 Press **TAPE** repeatedly to select tape deck 1 or 2.

2 Press ►II.

To stop playback
● Press ■.

To select automatic replay or one time playback
● Press **AUTO REPLAY** repeatedly to select the different playback modes.
➜ "*AUTO REPLAY*" (⟳) or "*ONCE*" (⤸) is displayed.

AUTO REPLAY …the tape will rewind automatically at the end of playback and replay again. It will replay up to a maximum of 20 times.

ONCE ....the tape will playback the selected side once and then stop.

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

● 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.

● If "*CHECK TAPE*" is displayed, the protection tab has been broken. Put a piece of clear adhesive tape over the opening.
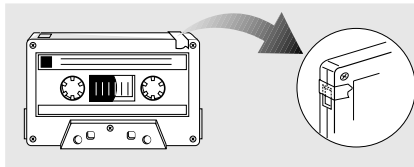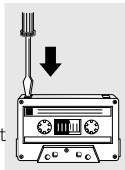
IMPORTANT!
– Recording is permissible if copyright or other rights of third parties are not infringed upon.
– Recording is possible only on tape deck 2.

Preparation for recording

1 Press **TAPE** to select tape deck 2.

2 Load a recordable tape into tape deck 2 with full spool to the left.

3 Prepare the source to be recorded.
CD – load the disc(s).
TUNER – tune to the desired radio station.
TAPE – load the prerecorded tape into tape deck 1 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, except tape dubbing.

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

One touch recording

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

2 Start playback of the selected source.

3 Press **RECORD** to start recording.

To stop recording
● Press ■ on the system.

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Tape Operation / Recording

CD Synchronized start recording

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

● Press ◄◄ or ►► to select the desired track to start recording.

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

2 Press **RECORD** to start recording.
➔ The disc will start playback automatically.

To select another track during recording

1 Press ►II to interrupt recording.

2 Press ◄◄ or ►► to select the desired track.

3 Press ►II again to resume recording.

To stop recording

● Press ■.
➔ Recording and disc playback will stop simultaneously.

Dubbing tapes

1 Press **TAPE** to select tape mode.

2 Load the prerecorded tape in tape deck 1.

● You can set the tape to the desired passage where recording will start.

3 Press **RECORD**.
➔ Playing and recording will start simultaneously.
➔ "*DUB*" is displayed.

● 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.
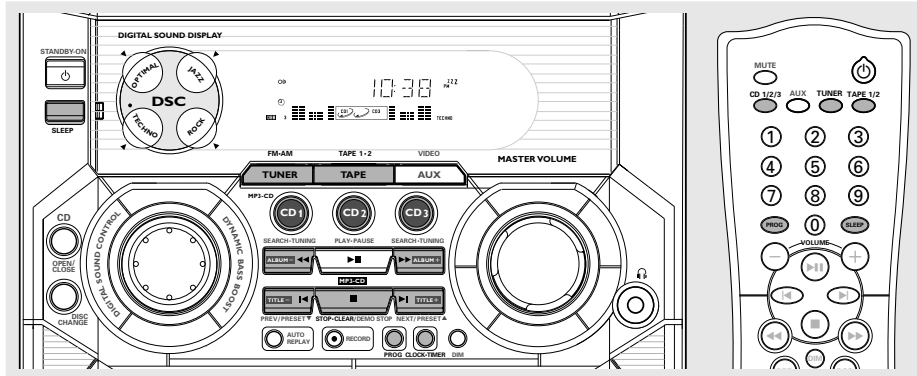
To stop dubbing

● Press ■.

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

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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 **PROG** 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 I◄ or ►I 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, TUNER or TAPE 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.
➔ " *12:00* **AM**" or "*00:00*" or the last timer setting starts flashing.
➔ ☻ starts flashing.

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Clock/Timer

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

➔ "ᴄᴅ 1 [or 2, 3] ᴋᴋ:ᴋᴋ" indicates the CD mode is selected.

➔ "ᴛᴜ ᴋᴋ:ᴋᴋ" indicates the Tuner mode is selected.

➔ "ᴛᴀ 1 [or 2] ᴋᴋ:ᴋᴋ" indicates the Tape mode is selected.

● Before setting timer, make sure the music source has been prepared.
CD 1/2/3 – Load the disc(s).
TUNER – tune to the desired radio station.
TAPE – load the prerecorded tape into tape deck.

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.

➔ "TIMER ON" is displayed, followed by the set timer "ᴋᴋ:ᴋᴋ" and the selected source.

➔ 🕐 remains on the display.

● At the preset time, the selected sound 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.

➔ "CANCEL" 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 → 30 → 45 → 60 → 90 → 120 → OFF → 15 …

➔ "SLEEP ᴋᴋ" or "OFF" is displayed. "ᴋᴋ" is the time in minutes.

2 When you reach the desired length of time, stop pressing the **SLEEP** button.

➔ ᴢᴢᴢ is shown, except for "OFF" mode.

➔ The sleep timer is now set. Before the system switches to standby mode, a countdown of 10 seconds is displayed.

"SLEEP 10" → "SLEEP 9".... → "SLEEP 1" → "SLEEP"

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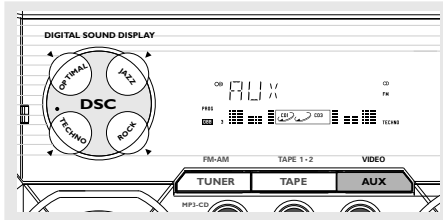● Press **SLEEP once**.

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 "OFF" is displayed, or press the **STANDBY ON** button.

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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** to select external equipment.
➜ "⸿⎍⌧" 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".

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

Cleaning Discs
● When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.

● Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analog records.
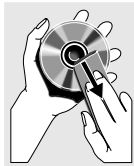
Cleaning the disc lens
● After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Cleaning the Heads and the Tape Paths
● To ensure good recording and playback quality, clean the heads (A), the capstan(s) (B), and pressure roller(s) (C) 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 once.
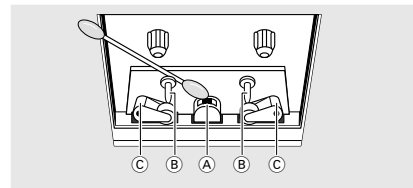
Demagnetizing the heads
● Use a demagnetizing tape available at your dealer.

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Specifications

AMPLIFIER

Output power .... 80 W total power
.... 2 × 40 W RMS / 2 × 33 W FTC[1]
Signal-to-noise ratio .... ≥ 67 dBA (IEC)
Frequency response .... 50 – 15000 Hz
Input sensitivity
  AUX/CDR In .... 500 mV / 1V
Impedance loudspeakers .... ≥ 6 Ω
Impedance headphones .... 32 Ω -1000 Ω
(1) (6 Ω, 60 Hz – 12.5 kHz, 10% THD)

CD PLAYER

Number of programmable tracks 99
Frequency range .... 20 – 20000 Hz
Signal-to-noise ratio .... ≥ 80 dBA
Channel separation .... ≥ 60 dB (1 kHz)
Total harmonic distortion .... < 0.003%
MPEG 1 Layer 3 (MP3-CD) .... MPEG AUDIO
MP3-CD bit rate .... 32-256 kbps
(128 kbps advised)
Sampling frequencies .... 32, 44.1, 48 kHz

RADIO RECEPTION

FM wave range .... 87.5 – 108 MHz
AM wave range .... 530 – 1700 kHz
Number of presets 40
Antenna
  FM .... 300 Ω dipole wire
  AM .... Loop antenna

TAPE DECK

Frequency response
  Normal tape (type I) ...... 80 – 12500 Hz (8 dB)
Signal-to-noise ratio
  Normal tape (type I) .... ≥ 48 dBA
Wow and flutter .... ≤ 0.4% DIN

SPEAKERS

System .... double port bass reflex
Impedance .... 6 Ω
Woofer .... 1 × 5 1/4" full range
Dimensions (w × h × d)
.... 8.27 × 12.20 × 9.25 (inch)
.... 210 × 310 × 235 (mm)
Weight .... 6.82 pounds each
.... 3.1 kg each

GENERAL INFORMATION

Material .... Polystyrene
AC Power .... 120 V / 60 Hz
Power Consumption
  Active .... 80 W
  Standby .... < 15 W
Dimensions (w × h × d)
.... 10.43 × 12.20 × 14.37 (inch)
.... 265 × 310 × 365 (mm)
Weight (without speakers) .... 14.08 pounds
.... 6.4 kg

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

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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 center.

Problem	Solution
CD OPERATION	
"UNREADABLE DISC" **is displayed.**	– 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".
	– Use a finalized CD-RW or a correct MP3-CD format disc.
"NO DISC" **is displayed.**	– Insert a disc.
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.
The tape deck door cannot open.	– Remove and reconnect the AC power plug and switch on the system again.

Troubleshooting

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. – Make sure the MP3-CD was recorded within 32-256 kbps bit rate with sampling frequencies at 48 kHz, 44.1 kHz or 32 kHz.
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.
Not all lighted buttons are showing light.	– Press DIM to select DIM OFF display mode.
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.

LIMITED WARRANTY

AUDIO SYSTEM

One Year Free Labor
One Year Free Service on Parts
This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For one year thereafter,* all parts will be repaired or replaced, and labor is free. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.
All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:
• labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
• product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
• reception problems caused by signal conditions or cable or antenna systems outside the unit.
• a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
• incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
• a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.
(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)
1-800-363 7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Solutions Group, P.O. Box 2976, Longview, Texas 75606, USA, (903) 242-4800

EL4965E006 / MAC 4110 / 12-98

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