CD Recorder Micro Hi-Fi System

MC-**90**

STOP!

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!

Let's make things better.

PHILIPS

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.
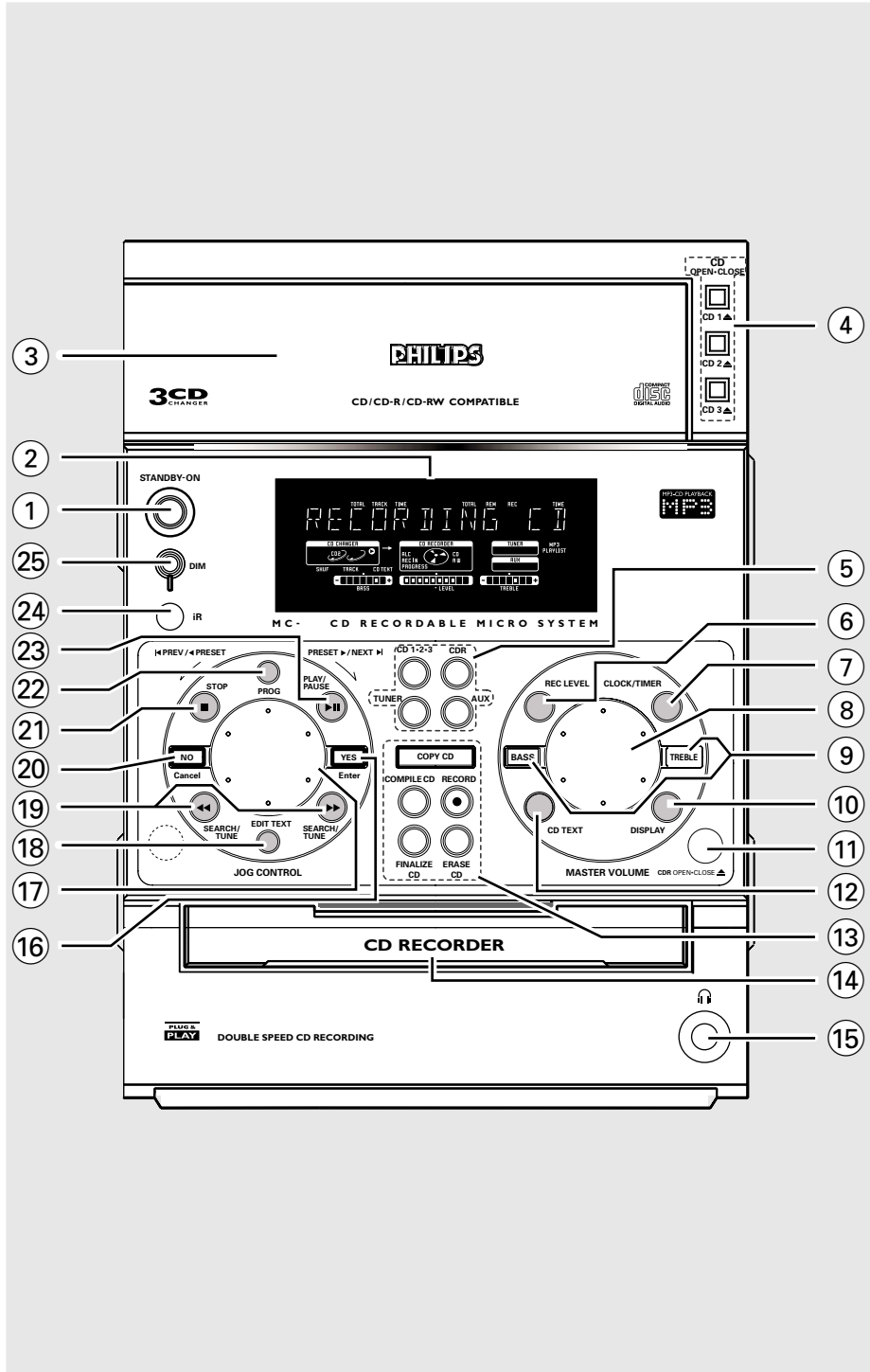
ATENCIÓN

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

2

CD
OPEN·CLOSE

CD 1 ▲
CD 2 ▲
CD 3 ▲

④

③

PHILIPS

3CD CHANGER

CD/CD-R/CD-RW COMPATIBLE

COMPACT
disc
DIGITAL AUDIO

②

STANDBY-ON

①

MP3-CD PLAYBACK
MP3

RE[ORDING [D

TOTAL TRACK TIME   TOTAL REM REC   TIME

CD CHANGER   CD RECORDER   TUNER   MP3 PLAYLIST
REC
REC IN
PROGRESS   AUX
SHUF   TRACK   CD TEXT
BASS   LEVEL   TREBLE

⑤

⑥

M C -   C D   R E C O R D A B L E   M I C R O   S Y S T E M

㉕ DIM

㉔ iR

㉓

㉒

㉑

⑳

⑲

⑱

⑰

⑯

I◀ PREV / ◀ PRESET   PRESET ▶ / NEXT ▶I   CD 1·2·3   CDR

PLAY/
PAUSE   TUNER   AUX

STOP   ▶II

PROG

NO
Cancel   YES
Enter   COPY CD

◀◀   ▶▶

SEARCH/
TUNE   EDIT TEXT   SEARCH/
TUNE

JOG CONTROL

COMPILE CD   RECORD
●

FINALIZE
CD   ERASE
CD

REC LEVEL   CLOCK/TIMER

BASS   TREBLE

CD TEXT   DISPLAY

MASTER VOLUME   CDR OPEN·CLOSE ▲

⑦

⑧

⑨

⑩

⑪

⑫

⑬

⑭

CD RECORDER

🎧

⑮

PLUG &
PLAY   DOUBLE SPEED CD RECORDING

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!
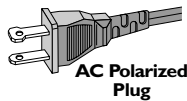
5

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 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 is not 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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Français

Español

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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

– Remote control
– Batteries (two AA size) for remote control
– AM loop antenna
– FM wire antenna
– AC power cord

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.

Maintenance

To clean a CD, wipe it in a straight line from the center towards the edge using a soft, lint-free cloth. A cleaning agent may damage the disc! Write only on the printed side of a CDR(W) and only with a soft felt-tipped pen.

Clean the system with a soft, slightly dampened, lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.

Do not expose the system batteries or discs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight). Always keep the disc tray close to avoid dust on the lens.
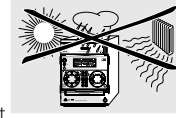
Safety information

● 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.

● 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.

● **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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Introduction

Discs for playback

Your CD changer and CD recorder are able to play :
– **All pre-recorded audio CDs**
– **All finalized audio CDR and audio CDRW discs**
– **MP3-CDs (CD-ROMs with MP3 tracks) Make sure filename ends with .mp3**

Discs for recording

For recording, make sure to use special audio discs only. These discs are marked with "DIGITAL AUDIO" and the logos shown below.

There are two different types of audio discs for the use on this CD recorder:

– **CD-Audio Recordable (CDR) discs**
can be recorded once and played on all standard CD players and CD recorders, when finalized.

– **CD-Audio ReWritable (CDRW) discs**
can be recorded, erased and re-recorded many times and played on CDRW compatible CD players and CD recorders, when finalized.

All Philips CD players and CD recorders with this sticker are CDRW compatible.

To ensure proper working of the set we recommend the use of Philips audio CDR and audio CDRW disc only.

Note:
– Do not use a computer CDR or CDRW as recording will not work!

IMPORTANT!
– Recording is permissible if copyright or other rights of third parties are not infringed upon.

About MP3

Supported formats
– **Disc format :** ISO 9660. Joliet or UDF v1.5
– **Filename :** mp3 (tracks), .mp3 or pls (playlists)
– **Bit rate :** 32-320 kbps (128 kbps advised) or variable bit rate

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 disc with your home PC. Make sure to use a recording speed not faster than indicated on the CD-ROM 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.**

Notes:
– In compliance with the SDMI (Secure Digital Music Initiative) this CDR Micro system has no digital output.
– It is not possible to record from an MP3-CD on this CDR Micro system.

10

AM loop
antenna

FM wire antenna

speaker
(right)

speaker
(left)

IN   OUT
DIGITAL

AC
MAINS

LINE OUT
R   L

FM ANTENNA
AM ANTENNA

Ⓑ

AUX/CDR IN
R   L

SUB
WOOFER OUT

Ⓒ
R

L

SPEAKERS 4Ω

Ⓐ
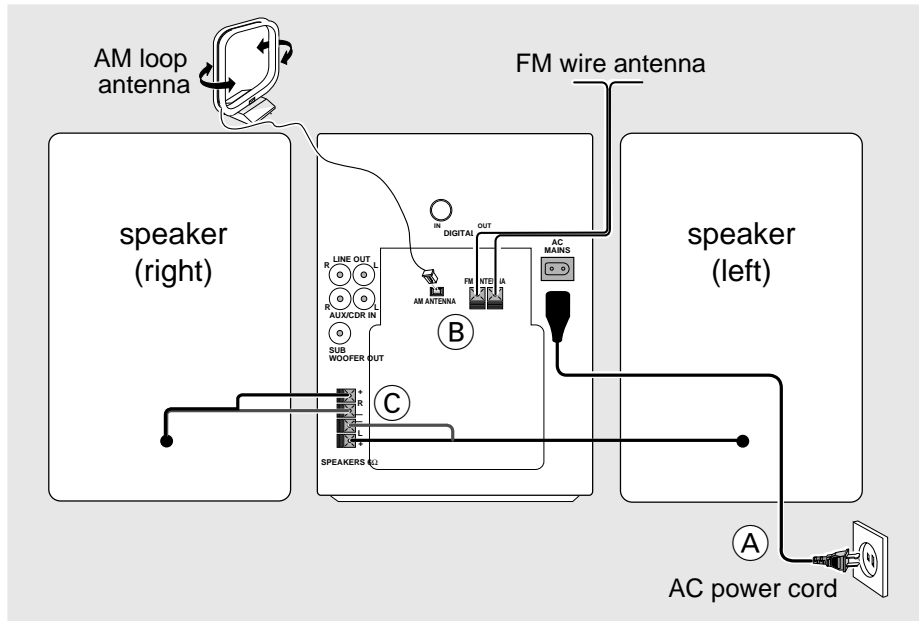
AC power cord

Rear connections

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

Ⓐ **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).

Ⓑ **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

Fix the claw
to the slot

AM ANTENNA

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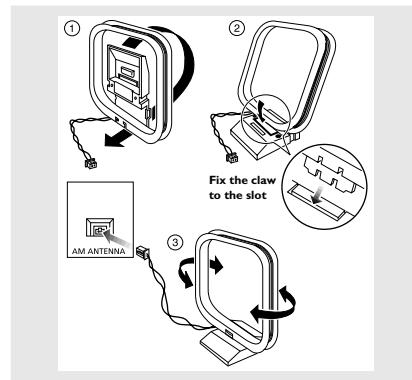
● Position the antenna as far as possible from a TV, VCR or other radiation source.

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Preparations

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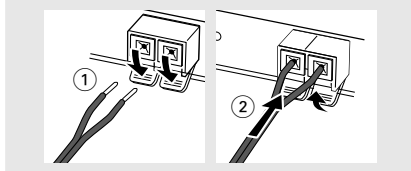
● For better FM stereo reception, connect an outdoor FM antenna to the FM ANTENNA terminal.

C Speakers connection

Front Speakers

Connect the speaker wires to the SPEAKERS (FRONT) terminals, right speaker to "**R**" and left speaker to "**L**", colored (marked) wire to "**+**" and black (unmarked) wire to "**−**".
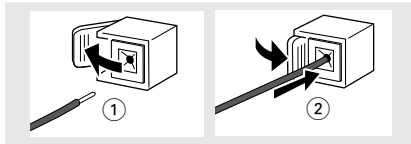
● Fully insert the stripped portion of the speaker wire into the terminal as shown.

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 connections

The additional appliances and connecting cords are not supplied. Refer to the operating instructions of the connected equipment for details.
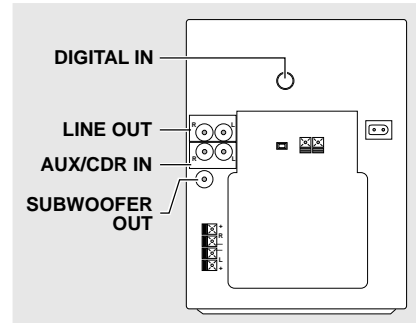
Analog audio connections

AUX/CDR IN (R/L)

Use a cinch cable to connect these terminals to the analog audio out terminals of an external equipment (TV, VCR, Laser Disc player or DVD player); for listening to or recording from this source.

Press **AUX** to select "AUX ANALOG H or L" for this input.

When connecting a turntable (record player)

Connect an amplifier to AUX/CDR IN, then connect the turntable to the amplifier.

LINE OUT (R/L)

Use a cinch cable to connect these terminals to the analog audio inputs of any analog audio equipment (amplifier/receiver or tape recorder, for example); for playback or performing analog recording.

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Notes:

– Do not connect equipment to both the LINE OUT and AUX/CDR IN terminals at the same time. Otherwise, noise will be generated and malfunction might occur.

– If you are connecting equipment with a monaural 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).

Digital audio connection

DIGITAL IN

Use a coaxial cable to connect the **DIGITAL IN** terminal to the digital coaxial output of any digital audio equipment (CD player or DVD player, for example); for recording from this source.

Press **AUX** to select "ᴀᴜх ᴅɪɢɪᴛᴀʟ" for this input.

Subwoofer out connection

Connect the subwoofer to the **SUBWOOFER OUT** terminal. The subwoofer reproduces just the low bass sound effect (explosions or the rumble of spaceships, for example).

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.
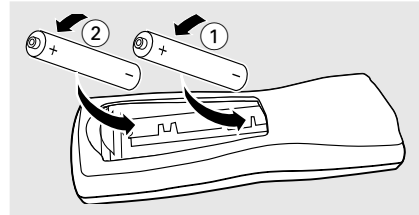
CAUTION!
– Remove batteries if they are exhausted or will not be used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed off properly.

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Controls *(main system's illustration on page 3)*

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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 123 or TUNER, for example).
– Then select the desired function (▶, I◀, ▶I, for example).
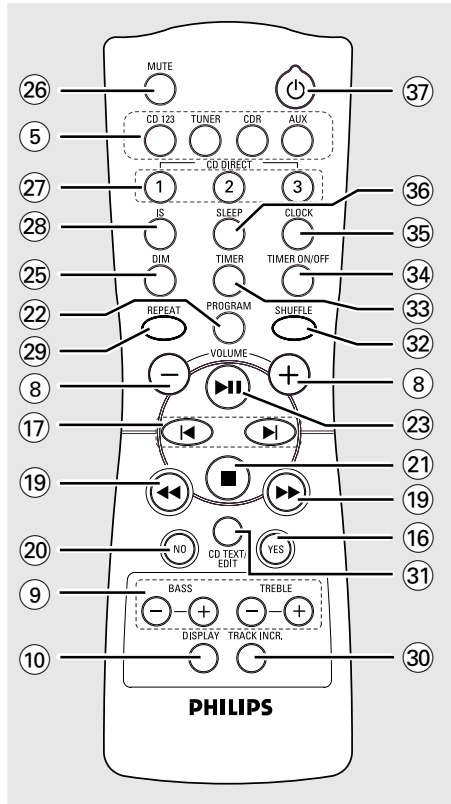
Controls on the system and remote control

① **STANDBY ON** ⏻
– to switch the system on or to standby mode.

② **Display screen**
– to view the current status of the system.

③ **CD changer tray (CDC)**

④ **CD OPEN•CLOSE (CD 1/CD 2/CD 3)** ⏏
– to open or close the individual disc tray :
CD 1, CD 2 or CD 3

⑤ **Source selection** – to select the following :
CD 1•2•3 (CD 123)
– to select disc tray 1, 2 or 3.
TUNER
– to select waveband : FM or AM.
CDR
– to select CD recorder.
AUX
– to select the input for an additional appliance.

⑥ **REC LEVEL**
– to activate/deactivate the auto level control.
– to activate the volume control for record level adjustment.

⑦ **CLOCK/TIMER**
– to select clock or timer function.

⑧ **MASTER VOLUME** *(rotary)*
(VOLUME ＋/－)
– to increase or decrease the volume.
– *(on the system only)* to increase or decrease the low or high tone level for the respective BASS or TREBLE sound feature selected.
– *(on the system only)* to adjust the record level.
– *(on the system only)* to adjust the hour and minutes for clock/timer settings.

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9 **BASS/TREBLE**
– to select BASS or TREBLE sound feature.

BASS/TREBLE +/− *(on the remote control)*
– to increase or decrease the low or high tone level for the respective BASS or TREBLE sound feature selected.

10 **DISPLAY**
– to select display information/text.

11 **CDR OPEN•CLOSE ⏏**
– to open/close the CD recorder tray.

12 **CD TEXT**
– to switch through CD text information.

13 **Multiple recording function**
COPY CD
– to select high speed recording and automatic finalizing of current CD.

COMPILE CD
– to select high speed recording and automatic finalizing of current program.

RECORD ●
– to enter the recording menu.

FINALIZE CD
– to finalize/unfinalize recordings.

ERASE CD
– to enter the erasing menu.

14 **CD recorder tray (CDR)**

15 🎧
– to connect headphones.

16 **YES / Enter**
– to confirm a selection.

17 **JOG CONTROL** *(rotary)*
(⏮ / ⏭ – on remote control)
for CDC/CDR…to select a track.
.... to review the tracks in a program.
.... to make a selection.
for MP3-CD ..... to select an album or track.
for TUNER .... to select a preset radio station.

18 **EDIT TEXT**
– to enter/exit the text edit menu.

19 **SEARCH/TUNE ◀◀ ▶▶**
for CDC/CDR…to search backward/forward.
for TUNER .... to tune to a lower or higher radio frequency.

20 **NO / Cancel**
– to cancel a selection.

21 **STOP ■**
for CDC/CDR…to stop playback or recording, or to clear a program.
for TUNER .... to stop programming.
.... *(on the system only)* to delete the preset radio station.
for DEMO .... *(on the system only)* to activate/ deactivate the demonstration.
for CLOCK .... to exit clock setting or cancel timer.
for PLUG & PLAY…*(on the system only)* to exit plug & play mode.

22 **PROG (PROGRAM)**
for CDC/CDR…to program disc tracks.
for TUNER .... to program preset radio stations.
for CLOCK .... to select 12- or 24-hour clock mode.

23 **PLAY/PAUSE ▶II**
for CDC/CDR…to start or interrupt playback.
for PLUG & PLAY…*(on the system only)* to initiate and start plug & play mode.

24 **iR**
– infrared sensor for remote control.

25 **DIM**
– to select various dim mode : DIM 1, DIM 2, DIM 3 or DIM OFF.

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

27 **CD DIRECT 1/2/3**
– to select a disc tray for playback.

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Controls

28 **IS (Incredible Surround)**
– to activate or deactivate the surround sound effect.

29 **REPEAT**
– to playback track(s)/disc(s)/program repeatedly.

30 **TRACK INCR.**
– to select automatic or manual increment of a track.

31 **CD TEXT/EDIT**
– to switch through CD text information, enter/exit the text menu.

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

33 **TIMER**
– to display timer or set the timer.

34 **TIMER ON/OFF**
– to activate or deactivate the timer function.

35 **CLOCK**
– to display clock or set the clock.

36 **SLEEP**
– to activate, deactivate or set the sleep timer function.

37 ⏻
– to switch the system to standby mode.

16
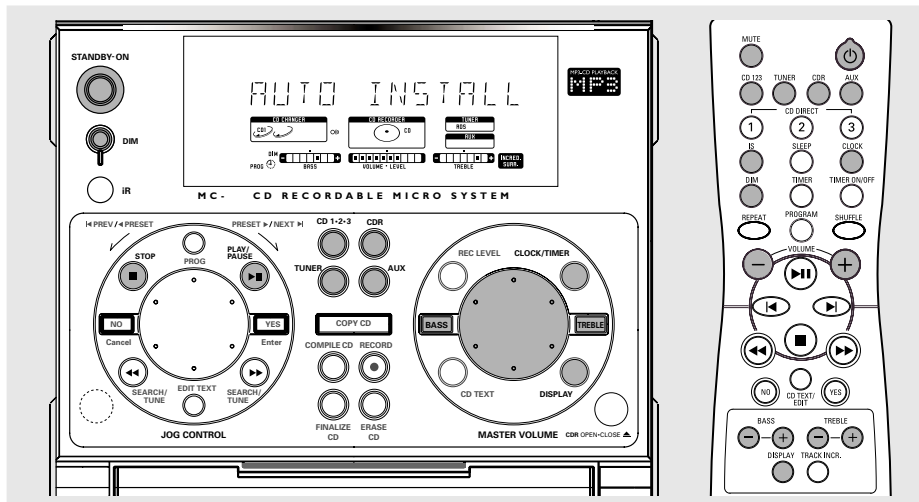
IMPORTANT!
Before operating the system, complete the preparation procedures.

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 ▶ ❚❚ 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 ▶ ❚❚ on the system until "AUTO INSTALL - PRESS PLAY" is displayed.

2 Press ▶ ❚❚ 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" is displayed.
– During Plug and Play, if no button is pressed within 15 seconds, the system will exit Plug and Play mode.

17

Basic Functions

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 "DEMO ON" 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 (CD 123)**, **TUNER**, **CDR** or **AUX**.

● Press any one of the disc **CD OPEN•CLOSE** buttons or **CDR OPEN•CLOSE**.
  → The system will switch to the respective CD or CDR 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.

Display screen selection

Dim mode

You can select the desired brightness for the display.

● 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	LEDs	Brightness	Music level bar
OFF	on	normal	active
1	partially on	normal	off
2	off	normal	off
3	off	half	off

← music level bar

Clock display mode

The clock will always appear on the display regardless of any source mode (except Eco Power standby and demonstration mode).

● Press **CLOCK/TIMER** (or **CLOCK** on the remote control) once.
  → The clock is displayed. If the clock has not been set, "-- : --" is displayed.

● To return to normal display mode, press **CLOCK/TIMER** again.

Notes:
– If you pressed any keys in clock display mode, the display will briefly show the information related to the selected mode.
– If you pressed CLOCK/TIMER while in recording or menu modes, the clock display will only show for a few seconds.

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English

Information display

● Press **DISPLAY**.

During playback, stop or recording;
To view various track's/disc's time information.

Volume control

Adjust the **MASTER VOLUME** to increase
(turn knob clockwise or press VOLUME ＋) or
decrease (turn knob counter-clockwise or press
VOLUME ─) the sound level.
➔ The current volume level is displayed. When
reached the minimum volume level,
"VOL MUTE" is displayed.

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.

Sound control

IS (Incredible Surround)
The Incredible Surround magnifies the virtual
distance between the front speakers for an
incredibly wide, enveloping, stereo effect.

● Press **IS** on the remote control repeatedly.
➔ If activated, **INCRED. SURR.** is shown and
"INCR SURR" is displayed.
➔ If deactivated, "IS OFF" is displayed.

Bass/Treble
The BASS (low tone) and TREBLE (high tone)
feature enables you to define the sound-
processor settings.

● Press **BASS** ＋/─ or **TREBLE** ＋/─ on the
remote control repeatedly to select the next
Bass or Treble level.
OR
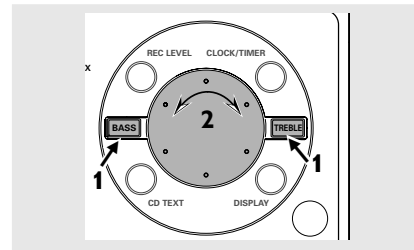
1 Press **BASS** or **TREBLE** on the system to
activate master volume control for Bass or Treble
level adjustment.

2 Adjust the **MASTER VOLUME** on the system.
➔ "BASS XX" or "TREBLE XX" is displayed.
"XX" denotes the level as follows :

   MIN → -2 ...→ 0 → 1... → +2 → MAX ...

Note:
*– The volume knob can be used to adjust
Bass/Treble level immediately after you have
selected the respective Bass/Treble sound feature.
If the volume knob is not used within five seconds,
it will become normal volume control function.*

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CD Changer/Recorder Operations
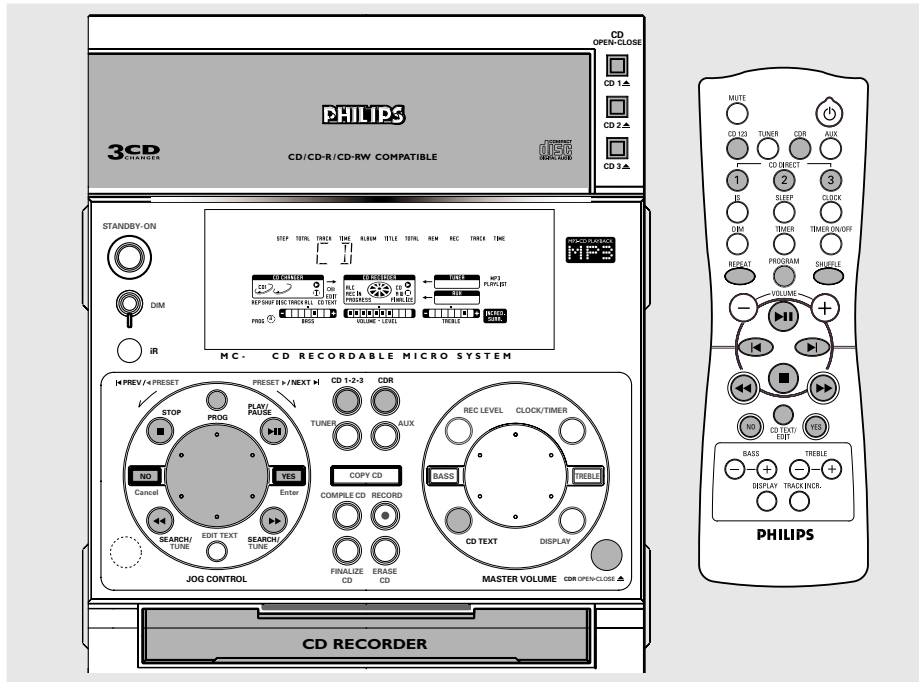
IMPORTANT!

– This system is designed for regular CD(RW)s. 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.

Loading discs

CD changer

1 Press **CD1▲**, **CD2▲** or **CD 3▲** to open the desired disc tray.

2 Load a disc with the label side facing up.

3 Press again the corresponding button to close the disc tray.
➜ "⌐ ⌐", the selected disc tray, total number of tracks and the playing time are displayed.
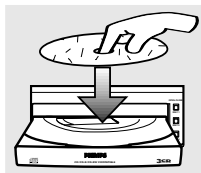
CD recorder

1 Press **CDR OPEN•CLOSE** to open the disc tray.

2 Load a disc with the label side facing up and press **CDR OPEN•CLOSE** again to close the disc tray.
➜ "⌐ ⌐⌐", the total number of tracks and the playing time are displayed.
➜ If an unfinalized disc is loaded, "INITIALIZING" is displayed.

For MP3-CD only

● When loading an MP3-CD, the volume name will not be shown.

Notes:

– To ensure good system performance, wait until the disc trays completely read the disc(s) before proceeding.

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

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CD Changer/Recorder Operations

Playing disc

(disc icon)	a disc is loaded in the disc tray
CD1	the current selected disc tray is empty
CD1 (disc icon)	the current selected disc tray is loaded
CD1 (disc icon)	the disc tray is currently playing

To start playback

1 Press **CD 1•2•3** repeatedly to select a desired disc tray or **CDR**.

2 Press ▶ ‖.
➜ "*CD 1 (2, 3) or CDR*", track number and elapsed playing time of the current track are displayed.
➜ For CD changer, all the available discs will play once, then stop.

To play the selected disc only (CD changer only)

● Press one of the **CD DIRECT 1/2/3** buttons on the remote control.
➜ The selected disc will play once, then stop.

To interrupt playback

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

● To resume playback, press ▶ ‖ again.

To stop playback

● Press ■.

Selecting a desired album/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

● Adjust **JOG CONTROL** (or press ◀◀ or ▶▶ on the remote control) until the track number is displayed.

To skip to the beginning of the current track during playback

● Adjust **JOG CONTROL** counter-clockwise (or press ◀◀ on the remote control).

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

For MP3-CD only

To select a desired album

● In stop mode, adjust **JOG CONTROL** (or press ◀◀ or ▶▶ on the remote control) until the album number is displayed.
➜ **ALBUM** is shown and the album name is scrolled.

To select a desired track

1 Press **YES** to enter the current album.

2 Adjust **JOG CONTROL** (or press ◀◀ or ▶▶ on the remote control) to select a desired track number.
➜ **TRACK** is shown and the track number is scrolled.

Replacing disc during playback (CD changer only)

You are able to replace or load in disc into the other two disc trays without interrupting current playback.

● While playback, press the **CD OPEN•CLOSE** button of the inactive disc tray (refer to "Loading Discs").

● If you press **CD OPEN•CLOSE** button of the active disc tray, the disc will stop playing and the disc tray will slide out.
➜ Once the disc tray is opened, it will be deselected.

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CD Changer/Recorder Operations

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 :

➔ **REP TRACK** – to repeat playback of the current track or program.

➔ **REP DISC** – to repeat playback of the current disc.

➔ **REP ALL** – to repeat playback of all available discs or program.

2 To resume normal playback, press **REPEAT** until the "REPEAT OFF" is displayed.

➔ **REP** disappears.

Random play

1 Press **SHUFFLE** on the remote control.

➔ **SHUF** is shown.

➔ All the available discs (in CD changer and recorder) or programmed tracks (if program is active) will be played in random order.

2 To resume normal playback, press **SHUFFLE** again.

➔ **SHUF** disappears.

Notes:

– During program play or shuffling mode, it is not possible to repeat playback the current disc only (Repeat Disc mode).

– Pressing the CD or CDR OPEN•CLOSE button will cancel all repeat and shuffling modes.

CD text display

This feature allows you to display information such as album title or track title contained on a specially encoded CD.

● Press **CD TEXT** (or **CD TEXT/EDIT** on the remote control) repeatedly to see the following information (if available).

➔ **CD TEXT** is shown and the information is scrolled once.

In stop mode	Album Title ⇄ Album Artist
In stop mode, adjust JOG CONTROL	Track Artist ⇄ Track Title
During playback	Album Title ⇄ Track Artist ⇄ Track Title

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 disc(s) on the disc tray(s) (refer to "Loading Discs").

2 Press **PROG** to start programming.

➔ **PROG** starts flashing.

3 Press **CD 1•2•3** or **CDR** to select a disc.

4 Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select a desired track or all tracks to program.

➔ If selected "CD ALL", all tracks of the disc will be programmed.

For MP3-CD only

● Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select a desired album to program. To program a track, press **YES** and then adjust **JOG CONTROL** to select a desired track from the album.

Note:

– It is not possible to create a program with MP3 tracks from multiple CDs, or combined with normal audio tracks.

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5 Press **YES** to store the selection.

● Press **NO** will clear the current track selection and back to the previous track in the program.

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

7 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.

8 To start program play, press ▶ **ⅠⅠ** .
➔ "*PLAY PROGRAM*" is displayed.

Notes:
– If the total programmed playing time is more than 320 minutes, "-- : --" is displayed.
– If you attempt to program more than 99 tracks, "PROGRAM FULL" is displayed.
– In program mode, pressing the CD DIRECT 1/2/3 buttons on the remote control will play the selected disc and the stored program will be ignored temporarily. The program will resume when playback of the selected disc ends.
– During programming, if no key is pressed within 20 seconds, the system will exit the Program mode automatically.

To review the program

● Stop playback and adjust **JOG CONTROL** (or press Ⅰ◀ or ▶Ⅰ on the remote control).

● To exit review mode, press ■ .

Changing the program

1 Press **PROG**.

2 Press ◀◀ or ▶▶ to move to the track number you want to change.

3 *To remove the track from the program;*
Refer to "Erasing the program".

To insert a new track;
Adjust **JOG CONTROL** to select a new track and press **YES** to confirm.
➔ The new track will be inserted in front of the selected track.

Erasing the program

To erase a track

1 Stop playback and press **CD 1•2•3** or **CDR** to select a disc.

2 Press **PROG**.

3 Press ◀◀ or ▶▶ to select a track number.

4 Press **NO** to erase the selected track from the program.
➔ "*CLEARED*" is displayed.
➔ The following program tracks' numbers are decreased by one.

To erase the entire program

1 Stop playback and press **NO**.
➔ "*CLEAR PROG?*" is displayed.

2 Press **YES** to erase the entire program.
➔ **PROG** disappears and "*PROG CLEARED*" is displayed.

Note:
– The program will be erased when the system switched to standby mode, disconnected from the power supply or when the disc tray is opened.

Recording

The CD recorder can be used for :
– Recording from the internal CD changer and tuner or from external source.
– Finalizing your CDR(W) discs and unfinalizing your CDRW discs.
– Erasing a CDRW disc.
– Editing CD text.

General information on recording

● **Use the unfinalized discs** with CDR AUDIO or CDRW AUDIO logo only.
● **Recording procedure** is the same for CDR and CDRW discs.
● **Maximum recording tracks** on a disc is 99.
● **Minimum track length** is four seconds, otherwise silence will be added to the track.
● **Minimum recording time left on the disc** is seven seconds, otherwise "$DISC$ $FULL$" is displayed and you cannot enter the record mode.
● **CD text** (if available) will be recorded automatically provided the text is not copy protected, otherwise "$TEXT$ $PROTECT$" is displayed.
● **MP3-CD** is not possible to copy.
● **Copy protected material** is possible for analog recording only, otherwise "$COPY$ $PROTECT$" is displayed.
● **Not enough recording space on the CDR(W) disc**, "$DOES$ NOT FIT" is displayed. If proceed recording, only those tracks which able to fit onto the CDR(W) will be recorded.

> *DO NOT FORGET TO FINALIZE!*
> *The CDR(W) disc has to be finalized in order to:*
> *– play the recorded CDR on a standard CD player, or*
> *– play the recorded CDRW on a CDRW compatible CD player and CD recorder.*

Direct Line Recording (DLR)

The CD recorder is equipped with the high-performance **D**irect **L**ine **R**ecording technique. It ensures a perfect recording of the source material, meaning a true "bit for bit" recording. **DLR will not become active when ALC is being used or the record level is adjusted**.

Auto Level Control (ALC)

Auto **L**evel **C**ontrol ensures that tracks on the recorded disc have a similar volume level. At all time the already recorded tracks of the CDR(W) disc will be taken as reference for the volume level of the following recordings.

ALC becomes active when :
– COMPILE CD is being used,
– A disc, a track or a track edit is being high speed recorded and the CDR(W) has recordings on it, or
– A program (consisting of more than one disc) from the CD changer is being high speed record.

ALC becomes inactive when :
– COPY CD is being used,
– making recordings from FM tuner,
– making recordings from external source, or
– making normal speed recordings.

Activating/Deactivating ALC

1 Stop playback and press **CDR**.

2 Press **REC LEVEL** repeatedly.
➔ If activated, "ALC ON" is displayed and **ALC** is shown.
➔ If deactivated, "ALC OFF" is displayed.

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Adjusting the record level

You can adjust the reference record level for recordings from the internal CD changer or external source. This feature can be used for fading your recordings in or out.

1 Press **CD1•2•3**.

● For additional appliance, press **AUX** repeatedly to select : "*AUX DIGITAL*", "*AUX ANALOG H*" or "*AUX ANALOG L*".

2 Start playback the disc or external source.

3 Press **REC LEVEL** to activate volume control for record level adjustment.

4 Adjust the **MASTER VOLUME** to select the desired record level. The loudest sounds in the material to be recorded should not reach the red levels of the level bar.
➜ The actual record level (in dB) is displayed.

Note:
– If the record level is too low, recording will not be possible. It is advisable to adjust to normal listening level.

Preparation for recording

1 Load in an **unfinalized CDR(W)** in the CD recorder tray.
➜ The CDR(W) used for recording should be absolutely free of scratches and dust particles in the CD recorder tray.

2 Prepare the source to be recorded.
CD 1•2•3 – load the disc(s). To start from a specific track, make a program.
TUNER – tune to the desired radio station.
AUX – connect additional appliance.

When a recording is in progress
➜ The arrow light and **REC IN PROGRESS** are shown. The actual recording time left starts to count down.

● During high speed recording, COPY CD or COMPILE CD, the sound will be muted.
● It is not possible to listen to another source.
● It is not possible to activate the timer function.

To exit recording mode
● Press **NO** or ■.
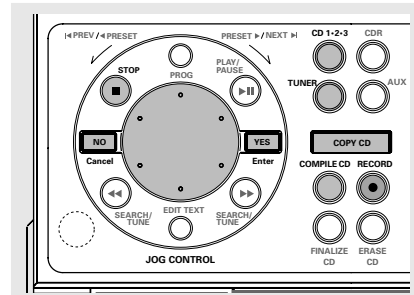
Internal recording

Recording from internal CD changer or tuner.

Recording a single track

1 Play your desired track on the CD changer.

2 Press **RECORD**.
➜ "*REC TRX?*" is displayed, "*X*" denotes the disc tray number.

3 Press **YES**.
➜ Playback and recording start from the beginning of the selected track.

FINALIZE the recorded CDR(W) before use for playback.

Recording an entire disc

1 Press **CD1•2•3** to select the disc you wish to copy.

● If a program is available, it will temporarily be ignored until recording ends.

2 Press **COPY CD**.
➜ The arrow starts flashing and "*RECORD CDX?*" is displayed.

3 Press **YES**.
➜ The recording starts in high speed mode and finalizes automatically after completing.

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Recording

Recording a program

1 Make a program from the CD changer only (refer to "CD Changer/Recorder Operations - Programming the disc tracks").

2 Press **COMPILE CD**.
➜ The arrow starts flashing and "*REC PROG?*" is displayed.

3 Press **YES** to confirm.
➜ "*AUTO FINAL ?*" is displayed.

4 Press **YES** to finalize the CDR(W) after high speed recording.

● If the CDR(W) is not to be finalized, press **NO**.

Note:
– If the program containing tracks from the CDC and CDR, "4 DISC PROG" and "CLEAR PROG?" will be displayed. Press NO to exit or YES to clear the current program and prepare a new program from the CD changer only.

Recording from the tuner

1 Tuning to a desired FM radio station (refer to "Radio Reception - Tuning to radio stations").

2 Press **RECORD**.
➜ "*PREPARING*" is displayed, followed by "*RECORD?*".

3 Press **YES** to start recording.

4 To stop recording, press ■ on the system.

FINALIZE the recorded CDR(W) before use for playback.

Further recording possibilities

1 Press **CD1•2•3** to select the disc you wish to record from.

2 Press **RECORD**.

3 Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select one of the following recording modes :

for high speed recording :
"*REC CD1 (or 2, 3) FAST?*" : to record a disc
"*REC TR FAST?*" : to record a track
"*PROG FAST?*" : to record a program

for normal recording :
"*RECORD CD1 (or 2, 3)?*" : to record a disc
"*REC TRACK?*" : to record a track
"*REC PROG?*" : to record a program

4 Press **YES** to confirm.
➜ The arrow starts flashing and "*PREPARING*" is displayed.
➜ The remaining and total recording time of the CDR(W) are displayed.

● If you select to record a track, adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select the desired track.
➜ "*REC TRX?*" is displayed, "X" denotes the disc tray number.

5 Press **YES** to start recording.

● To stop recording, press ■ on the system.

FINALIZE the recorded CDR(W) before use for playback.
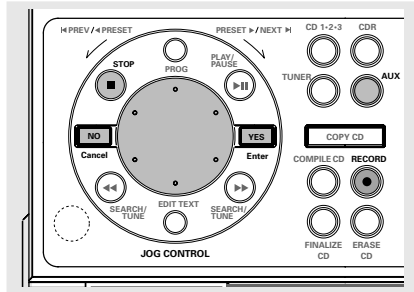
External recording

Analog or digital recording

When making recordings from an external source, we recommend doing analog recording only if digital recording is not possible.
Digital recording will usually result in better sound quality.

Automatic track increment

This feature enables the recorded tracks to be positioned same as on the original source material.

When making digital recording from a digital source (for example, CD player), tracks will be incremented automatically.

When making analog recording from a digital or analog source, select one of the following track increment settings.

● In stop mode, press **TRACK INCR.** on the remote control repeatedly to select :
  ➔ *"MANUAL"* : for switching the function off.
  ➔ *"TURNTABLE"* : for optimal recording from noisy sources like turntables.
  ➔ *"TAPE/ TUNER"* : for optimal recording from a tape.
  ➔ *"CD/DVD"* : for optimal recording from high quality sources like DAT, DCC or DVD.

Notes:
– Track numbers can be incremented manually by pressing TRACK INCR. on the remote control during recording. The minimum track length is four seconds.
– Track numbers cannot be changed after recording.

Synchro start recording

1 Press **AUX** repeatedly to select the input for the external source you want to record from.
  ➔ *"AUX DIGITAL"* : for digital input.
  ➔ *"AUX ANALOG H"* : for analog input from a standard level source.
  ➔ *"AUX ANALOG L"* : for analog input from a low level source (when sound of external source is too low compared to the internal tuner or CD changer).

2 Press **RECORD**.

3 Adjust **JOG CONTROL** (or press ◀ or ▶ on the remote control) to select :
  ➔ *"AUX CD?"* : for recording with synchronized start of an entire disc.
  ➔ *"AUX TRACK?"* : for recording with synchronized start of a single track.

4 Press **YES** to confirm.
  ➔ *"START EXTERNAL SOURCE"* is displayed.

5 Start playback on the external source you want to record from.
  ➔ The CD recorder starts to record simultaneously. The remaining recording time on the CDR(W) is displayed.

Note:
– If you start playback on the selected source within a track, recording will start at the beginning of the next track.

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Recording / Other Features

6 *If a digital source is selected:*
After the recording process, the CD recorder stops automatically.

If an analog source is selected:
At the end of the recording process, the CD recorder stops after a silence of 20 seconds on the source material.

● To stop recording manually, press ■ on the system.

Note:
– Recordings from DAT, DCC or DVD will automatically stop after 20 seconds of silence.

Manual recording

1 Follow *step 1–2* of "Synchro start recording".

2 Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select :
➜ *"AUX MANUAL?"* : for manual start recording.

3 Press **YES** to confirm.
➜ *"PREPARING"* is displayed, followed by *"RECORD?"* and the remaining recording time of the CDR(W).

● To set the optimal recording level (refer to "Adjusting the record level").

4 To start recording, start playback the external source and press **YES** simultaneuously.

5 To stop recording, press ■ on the system.
➜ *"UPDATE"* is displayed.

Note:
– If "CHECK INPUT" is flashing, check the digital connection.
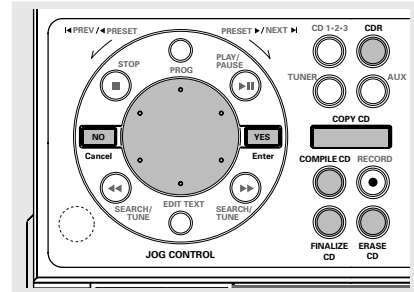
Finalizing CDR(W) disc

After recording, the CDR(W) disc has to be finalized in order to :
for CDR   – play on a standard CD player.
                 – avoid further unwanted recordings.
for CDRW – play on a CDRW compatible CD player or CD recorder.
                 – avoid further unwanted recordings.
                 – avoid accidental erasure of tracks.

Notes:
– Finalizing will take about two minutes.
– During finalization, no other operating commands can be executed.
– When a CDR has been finalized, no more recordings can be added.
– After finalization of the CDR(W), CDRW changes to CD on the display.

Auto finalizing

When using the **COPY CD** recording function, your recordings will be finalized automatically.

Manual finalizing

1 Insert the CDR(W) you want to finalize in the CD recorder tray.

2 Press **FINALIZE CD**.
➜ *"FINALIZE?"* is displayed.

3 Press **YES** to start finalizing.
➜ FINALIZE is shown. *"FINAL"* is displayed and the remaining operation time starts to count down.

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Unfinalizing CDRW disc

If you want to record (or erase) on (from) a finalized CDRW, you have to unfinalize it first.

Notes:
– Unfinalizing will take about two minutes.
– After unfinalizing of the CDRW, cd changes to cdrw on the display.

1 Load in an finalized CDRW in the CD recorder tray.

2 Press **FINALIZE CD**.
➜ *"UNFINALIZE?"* is displayed.

3 Press **YES** to start unfinalizing.
➜ *"UNFINAL"* is displayed and the remaining operation time starts to count down.

Erasing CDRW disc

It is possible to erase one or more tracks **(starting from the end of the last track)** or the entire CDRW**(unfinalized)**.

1 Load in an unfinalized CDRW in the CD recorder tray.

2 Press **ERASE CD**.

3 Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select :
➜ *"ERASE DISC?"* : to erase an entire CDRW.
➜ *"ERASE TR XX?"* : to erase one or more tracks. *"XX"* denotes the track number.

4 Press **YES** to confirm.
➜ *"ERASE?"* is displayed.

5 Press **YES** to start erasing.
➜ *"ERASE"* is displayed and the operation time left starts to count down.

● Repeat *step 3-5* to erase other tracks.

6 If no further erasure is required, press ■ on the system.

Note:
– When erasing several tracks, the tracks to be erased must be selected in sequence, starting from the last recorded track. For example, if the CDRW has 5 tracks recorded on it, you should erase tracks 5 and 4. You can also erase tracks 5,4 and 3, but you cannot erase tracks 5 and 3!

CD text editing

For unfinalized CDR(W) discs only

Storing text

You can enter a name for the Album Title/Artist and Track Title/Artist. These texts will show on the player, which is equipped with the CD text feature. **You can enter up to 60 characters per text field.**

1 Stop playback and press **CDR**.

2 Press **EDIT TEXT** (or **CD TEXT/EDIT** on the remote control).
➜ **EDIT TEXT** is flashing.

3 Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select one of the following for edit :
➜ *"ALBUM TITLE"* – CD title.
➜ *"ALBUM ARTIST"* – CD artist.
➜ *"TITLE TR 1 (or 2,3,…)"* – title of track 1 (or 2,3,…).
➜ *"ARTIST TR 1 (or 2,3,…)"* – artist of track 1 (or 2,3,…).

4 Press **YES** to confirm.

5 Adjust **JOG CONTROL** (or press |◀ or ▶| on the remote control) to select a character.
➜ The cursor will automatically move to the next character space after the selected character stays on for one second.

6 Repeat *step 5* for adding further characters.

7 Press **YES** to save and store the texts and exit to the last position in the text editing menu.
➜ *"UPDATE"* is displayed.

To exit text editing mode
● Press ■ .

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Other Features

Changing Text

1 In text editing mode, press ◄◄ or ►► to move the cursor.
→ The cursor position starts blinking.

2 **To insert a space**, press **YES**.
→ A space will be inserted after the cursor.

To delete a character, press **NO.**
→ The character before the cursor will be deleted.

To change the character, adjust **JOG CONTROL** (or press ◄◄ or ►►| on the remote control).

3 Press ■ to exit text editing mode.

Erasing text

1 Press **EDIT TEXT** (or **CD TEXT/EDIT** on the remote control).
→ **EDIT TEXT** is flashing and "*TEXT EDIT*" is displayed.

2 Adjust **JOG CONTROL** (or press ◄◄ or ►►| on the remote control) until "*ERASE TEXT*" is displayed.

3 Press **YES** to confirm.

4 Adjust **JOG CONTROL** (or press ◄◄ or ►►| on the remote control) to select one of the following for erase :
→ "*ALL TXT TR 1* (or *2, 3,…*)" – all texts of track 1 (or 2,3,…).
→ "*CD TITLE*" – CD artist's name and CD title.
→ "*ALL TEXT CD*" – all texts of the selected disc.

5 Press **YES** to start erasing.

6 Press ■ twice to exit erasing text mode.

Erasing from the memory

When the text memory of your CD recorder is almost full, the messages "*MEMORY FULL*" and "*FINALIZE DISC*" will be displayed. If you still want to add a new disc to the text memory, you have to finalize another disc.

Radio Reception
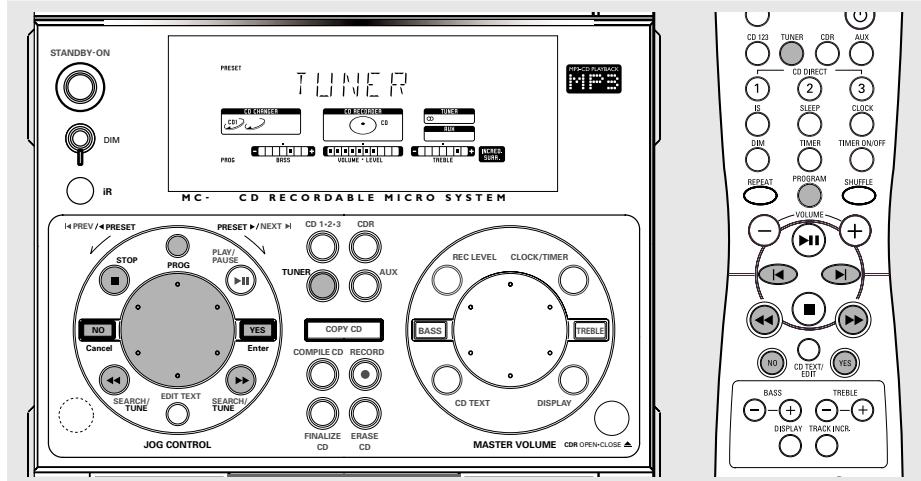
Tuning to radio stations

1 Press **TUNER** to select TUNER mode.
→ "*TUNER*" is displayed. A few seconds later, the current radio frequency will appear on the display.

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 "*SEARCHING*" until a radio station with sufficient signal strength is found.
→ If an FM station is received in stereo, ∞ will appear on the display.

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
● Adjust **JOG CONTROL** (or press ◀◀ or ▶▶ on the remote control) 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 "*AUTOPROGRAM*" 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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Radio Reception

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
● Adjust **JOG CONTROL** (or press I◀ or ▶I on the remote control) to select the desired preset number.

3 Press **YES** 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, "PROGRAM 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, adjust **JOG CONTROL** (or press I◀ or ▶I on the remote control) to select the desired preset number.
➜ The preset number, radio frequency, and waveband are displayed.

Erasing a preset radio station

1 Adjust **JOG CONTROL** (or press I◀ or ▶I on the remote control) 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.

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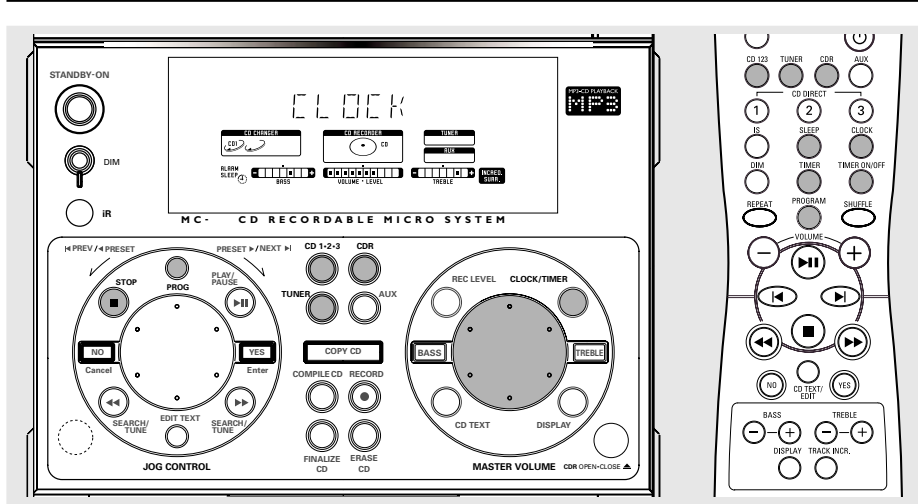
Clock/Timer setting mode

1 Press and hold **CLOCK/TIMER** until "SELECT TIMER OR CLOCK" is displayed.

2 If necessary, adjust the **MASTER VOLUME** to select :
→ "TIMER" : for timer setting mode.
→ "CLOCK" : for clock setting mode.

3 Press **CLOCK/TIMER** again to confirm the selection.

OR

Entering clock setting mode

● Press and hold **CLOCK** on the remote control until "CLOCK" is displayed.
→ ⏱ starts flashing.

Entering timer setting mode

● Press and hold **TIMER** on the remote control until "TIMER" is displayed.
→ ⏱ and **ALARM** start flashing.

Clock setting

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

1 Enter **clock setting mode** (refer to "Clock/Timer setting mode").

2 Press **PROG** repeatedly to select 12-hour or 24-hour clock mode.
→ The clock digits for the hours start flashing.

3 Adjust **MASTER VOLUME** to set the hours : clockwise for hours up; counter-clockwise for hours down.

4 Press **CLOCK/TIMER** (or **CLOCK** on the remote control) to confirm hours.
→ The clock digits for the minutes start flashing.

5 Adjust **MASTER VOLUME** to set the minutes.

6 Press **CLOCK/TIMER** (or **CLOCK** on the remote control) again to store and exit the setting.
→ The clock will start working.

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

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Clock/Timer

English

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

Timer setting

The system can switch on to CD, TUNER or CDR 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.

1 Enter **timer setting mode** (refer to "Clock/Timer setting mode").
→ The last wake-up source starts flashing (*TUNER*, *CD* or *CDR*).

2 Adjust **MASTER VOLUME** to select the sound source.
→ Display sequence shows :
CDR → CD1 → CD2 → CD3 → TUNER...

● Before setting the timer, make sure the sound source has been prepared.
CDR – load a CDR(W).
CD 1•2•3 – load the disc(s). To start from a specific track, make a program (refer to "CD Changer/Recorder Operations - Programming the disc tracks").
TUNER – tune to the desired radio station.

3 Press **CLOCK/TIMER** (or **CLOCK** on the remote control) to confirm the selection.
→ The clock digits for the hours start flashing.

4 Repeat **step 3-6** of "Clock Setting" to set the hours and minutes.
→ "*TIMER ON*" is displayed and followed by the set timer "*AT XX:XX*" and then the selected sound source.
→ **ALARM** 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:
– If the program mode is active, it will have the priority over the selected disc track.
– 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 key is pressed within 90 seconds, the system will exit timer setting mode automatically.

Checking the timer

● Press **TIMER once** on the remote control.
→ If the timer has been activated, the set timer information is displayed.

Activate/deactivate the timer

● Press **TIMER ON/OFF** repeatedly on the remote control.
→ If activated, the last set timer information is displayed for a few seconds, **ALARM** is shown.
→ If deactivated, "*TIMER OFF*" is displayed.

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Sleep timer setting

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

1 Press **SLEEP** on the remote control repeatedly to select a preset amount of time.

➔ The selections are as follows (time in minutes):

15 ➝ 30 ➝ 45 ➝ 60 ➝ OFF ➝ 15 …

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

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

➔ SLEEP 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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Specifications

Amplifier

Output power .... 50 W total power
.... 2 x 25W RMS / 2 x 20 W FTC[1]
Signal-to-noise ratio .... ≥ 75 dBA (IEC)
Frequency response .... 50 – 20000 Hz, ±3 dB
Input sensitivity
   AUX/CDR In .... 500 mV / 1V
   Digital In .... 500 mV, 75 Ω , 12–96 kHz
Output
   Speakers ....≥ 6 Ω
   Headphones .... 32 Ω – 1000 Ω
   Subwoofer Out .... 1.3 V ±2dB, > 22000 Ω
   Line Out .... 500 mV ±2dB, > 22000 Ω
(1) (6 Ω, 60 Hz – 12.5 kHz, 10% THD)

CD changer / CD recorder

Number of programmable tracks 99
Playback
   Frequency response .... 20 – 20000 Hz
   Signal-to-noise ratio .... ≥ 76 dBA
   Channel separation .... ≥ 79 dB (1 kHz)
   Total harmonic distortion .... < 0.02% (1 kHz)
Digital recording .... equal to source
Analog recording
   Frequency response ...... 20 – 20000 Hz, ± 3dB
   Signal-to-noise ratio .... ≥ 88 dBA
   Channel separation .... ≤ 65 dB (1 kHz)
   Total harmonic distortion .... ≤ 78 dB (1 kHz)

Laser (CD recorder)

Type .... Semiconductor laser GaAIAs
Wave length .... 775 – 795nm (at 25°)
Output power .. 2.5 mW (read), 35 mW (write)
Beam divergence .... 60 degree

Tuner

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

Speakers

System .... 2 way, Bass reflex
Impedance .... 6 Ω
Woofer .... 1 x 5.25" metal cones
Tweeter .... 1 x 1" Ferrofluid
Dimensions (w x h x d)
.... 7.09 x 9.61 x 8.46 (inch)
.... 180 x 244 x 215 (mm)
Weight .... 5.76 pounds each
.... 2.62 kg each

General

Material/finish .... Polystyrene/Metal
AC Power .... 120 V / 60 Hz
Power Consumption
   Active .... 88 W
   Standby .... 15 W
Dimensions (w x h x d)
.... 6.90 x 13.62 x 9.61 (inch)
.... 175 x 346 x 244 (mm)
Weight (without speakers) .... 11.2 pounds
.... 5.09 kg

Specifications and external appearance are subject to change without notice.

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 Changer/Recorder Operation	
"INSERT 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 finalized CD-RW or CD-R.
Does not record.	– Make sure the CDR(W) is absolutely free of scratches and dust particles. – Check if a digital audio CDR(W) is inserted and make sure it is unfinalized.
Stop during recording.	– Use Philips audio CDR(W)s. – In case recording process is interrupted (power loss, mechanical shock), start recording again with a new disc.
Recorded disc does not play in another standard CD player.	– Make sure the CDR(W) is finalized. – Insert the CDRW in a CDRW compatible CD player.
Recorded tracks have been merged together or tracks do not start/stop at the correct time.	– Use another track increment mode. – Insert track increments manually with the remote control.
Missing directories on MP3-CD.	– Only albums with playable files will be shown.
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 Micro HiFi System and your TV or VCR.

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. – For external appliances, adjust the record level.
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 123 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 TIMER ON/OFF to switch on the timer. – If a recording is in progress, stop the 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 and buttons start flashing.	– Press and hold STOP on the system to switch off the demonstration.

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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

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