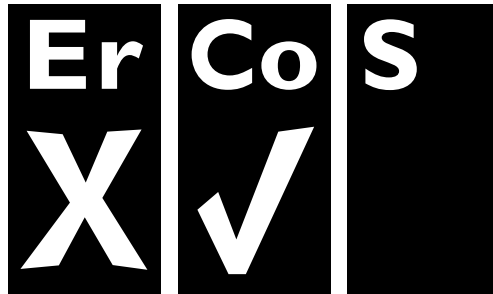**Video CD Micro System**

MC-**55**

Let's make things better.

PHILIPS

Er Co S
X √

Optimum disc playability : ensuring excellent picture quality

Philips components and modules for the various CD applications have always enjoyed an excellent reputation in the market place for super disc playability - the ability to play discs which may be scratched, soiled or not fully according to the standard specification. This position has been underlined by tests showing the superior performance of the various Philips players, as well as by the positive experiences of millions of individual consumers around the world.

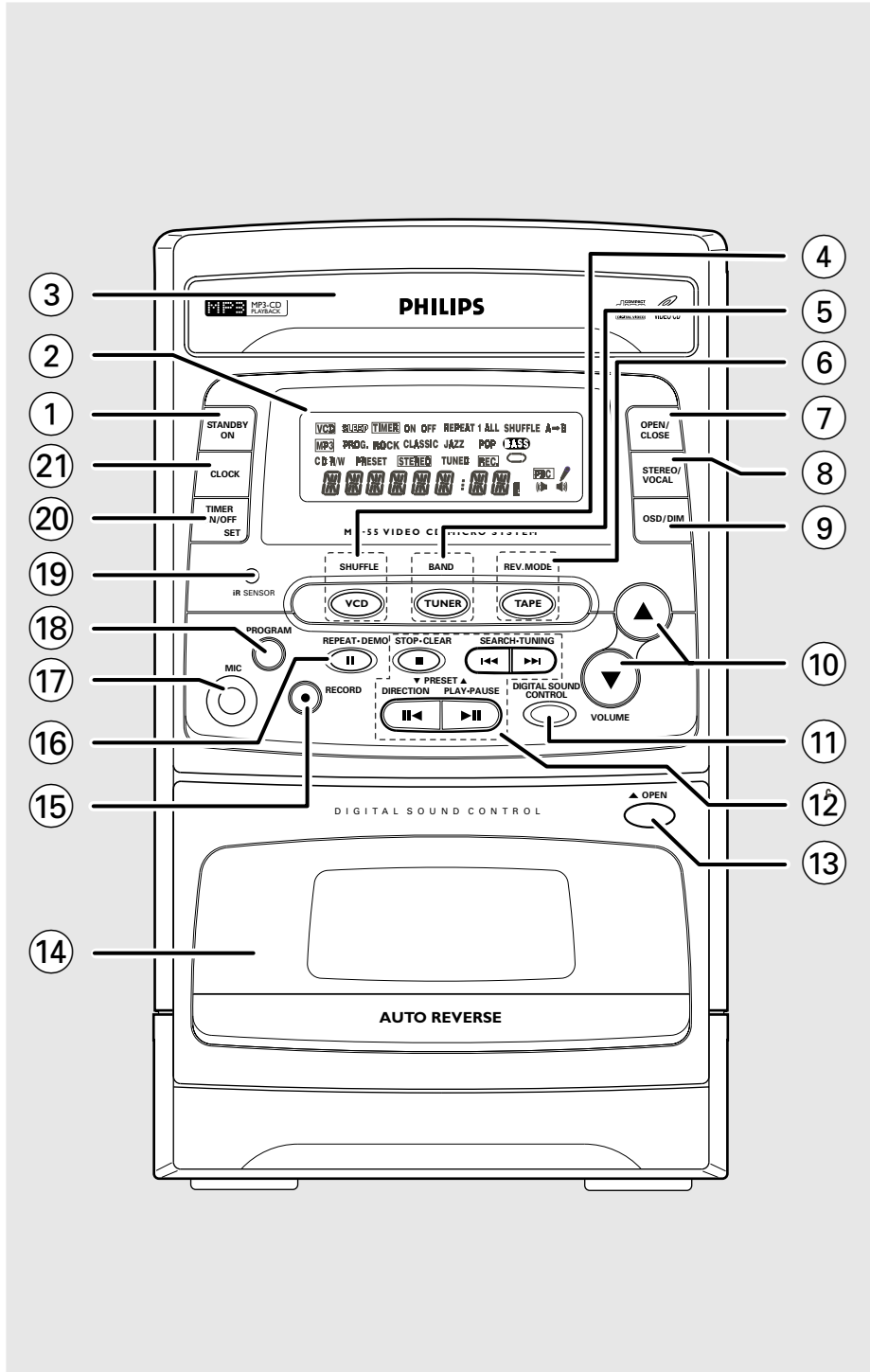### Constantly improving performance

As the penetration of the CD system has increased, and new applications like CD-ROM and Video CD have become commonplace, Philips Components - as the CD technology inventor and as one of the major suppliers of CD player modules in the industry - has constantly improved the performance of its products.

One of the ways in which this benefits users is by optimum disc playability. This is an important parameter for CD players other than CD Audio, and especially for the Video CD applications, because any loss of data from the disc will at best cause disturbances in the reproduced picture, and at worst can cause the player to lose track so that disc playing fails.

Presenting Super Error Correction

To ensure consistently good results when playing Video CD discs of all quality grades and conditions, Philips has introduced further improvements in the system's playability. These developments together are called Super Error Correction, a proprietary Philips technology optimizing the system's ability to handle less-than-perfect discs with the minimum disturbance to normal playing.

By effectively eliminating virtually all errors arising under normal playing conditions, Super Error Correction ensures that the picture quality as seen by the user is independent of disc play. The video encoding and processing during mastering of the disc, and the MPEG-1 decoding and video encoding in the signal processing stages, are now the only limiting factors for picture quality.

2

PHILIPS

MP3 MP3-CD PLAYBACK

COMPACT
DIGITAL VIDEO   VIDEO CD

VCD SLEEP TIMER ON OFF REPEAT 1 ALL SHUFFLE A↔B
MP3 PROG. ROCK CLASSIC JAZZ POP BASS
CD R/W PRESET STEREO TUNED REC

STANDBY ON

CLOCK

TIMER N/OFF SET

iR SENSOR

M -55 VIDEO CD MICRO SYSTEM

OPEN/CLOSE

STEREO/VOCAL

OSD/DIM

SHUFFLE   BAND   REV.MODE

VCD   TUNER   TAPE

PROGRAM

REPEAT·DEMO   STOP·CLEAR   SEARCH·TUNING

MIC

RECORD

▼ PRESET ▲
DIRECTION   PLAY·PAUSE

DIGITAL SOUND CONTROL

VOLUME

▲ OPEN

DIGITAL SOUND CONTROL

AUTO REVERSE

3

Index

English

中文

Bahasa Melayu

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

5

Contents

English

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

Environmental information

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

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

Supplied accessories

– Remote control
– Batteries (two AAA size) for remote control
– AM loop antenna
– FM wire antenna
– One Video cinch cable

Safety information

● Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer.

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

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

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

● If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the system. Should this occur, the CD player would not operate normally. Leave the power on for about one hour with no disc in the system until normal playback is possible.

● 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.**

7

Preparations
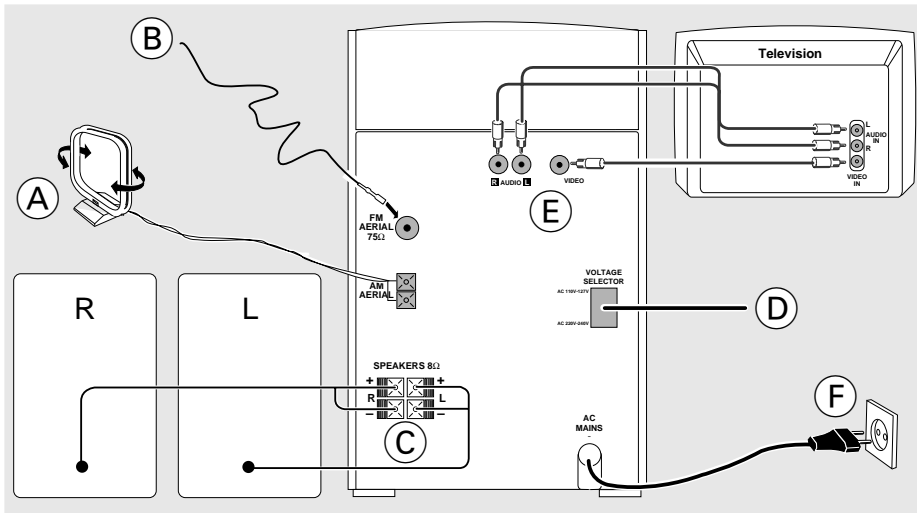
Rear connections

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

Ⓐ AM Loop Antenna Connection

Connect the supplied loop antenna to the AM AERIAL (AM ANTENNA) terminal. Place the AM loop antenna far away from the system and adjust its position for the best reception.
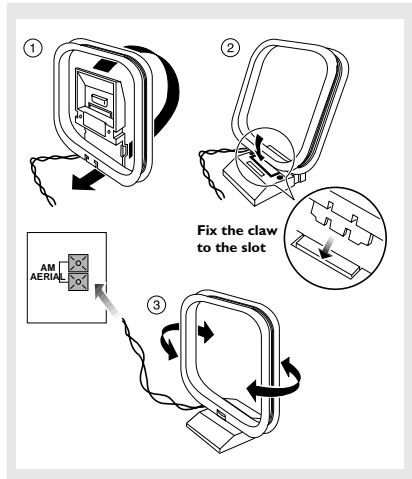
Ⓑ FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM AERIAL (FM ANTENNA) 75 Ω terminal. Adjust the position of the FM antenna for the best reception.
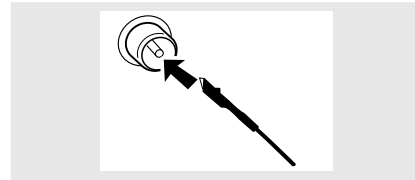
Outdoor Antenna

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

C Speakers Connection

● Connect the right speaker to terminal marked "R", with the coloured wire to + and the black wire to −.

● Connect the left speaker to terminal marked "L", with the coloured wire to + and the black wire to −.

● Clip the stripped portion of the speaker wire as shown.

Notes:

– For optimal sound performance, it is recommended to use the supplied speakers.

– Do not connect more than one speaker to any one pair of + / − speaker terminal.
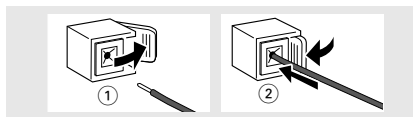
– Do not connect speakers with impedance lower than the speakers supplied. Please refer to SPECIFICATION section of this manual.

D Adjusting the Operating Voltage

(for specific version only)

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

E Video/Audio Out Connection

Connect the VIDEO and AUDIO output terminal at the rear of the system to the TV or VCR VIDEO/AUDIO IN for viewing or recording.

F AC Power Supply

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

Inserting batteries into the Remote Control

● Insert batteries (Type LR03 or AAA) into the remote control as shown in the battery compartment.
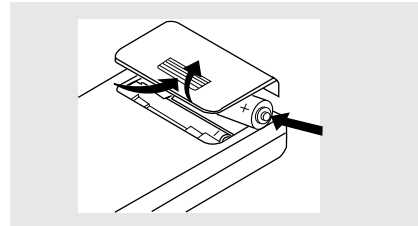
CAUTION!
– Remove batteries if they are exhausted or not to be used for a long time.
– Do not use old and new or different types of batteries in combination.
– Batteries contain chemical substances, so they should be disposed off properly.

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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 **DISPLAY SCREEN**
– to view the current status of the system.

3 **Disc tray**

4 **VCD / SHUFFLE**
– to select CD/VCD mode (this system can playback MP3-CD format disc). When in CD/VCD mode, press to start or stop shuffle play mode.

5 **TUNER / BAND**
– to select Tuner mode. When in tuner mode, press to select the waveband: FM or AM.

6 **TAPE / REV. MODE**
– to select Tape mode. When in tape mode, press to select AUTO REVERSE.

7 **OPEN/CLOSE**
– to open or close the disc tray.

8 **STEREO/VOCAL**
for Tuner .... to switch between stereo/mono mode (on FM band only).
for CD/VCD .... to set vocal mode.

9 **OSD/DIM**
– to switch on/off the on screen display on the TV screen.
– to select DIM HIGH, DIM LOW or LED OFF.

10 **VOLUME ▲ ▼**
– to increase or decrease the volume.
– to increase or decrease the microphone volume level, echo level or key tone level.

11 **DIGITAL SOUND CONTROL (DSC)**
– to select the desired sound effect : POP, CLASSIC, ROCK, JAZZ or FLAT.
– to switch on/off BASS mode.

12 **Mode Selection**
STOP• CLEAR ■
for CD/VCD/MP3-CD…to stop playback or to clear a programme.
for Tuner .... to stop programming.
for Tape .... to stop playback or recording.
SEARCH•TUNING |◀◀ ▶▶| (◀◀ ▶▶)
for MP3-CD only…to select previous/next album or track.
for CD/VCD .... to search backward/forward or to skip to the previous/next track.

for Tuner .... to tune to a lower or higher radio frequency or to search radio stations.
for Tape .... to rewind or fast forward.
for Clock .... to set the hour and minutes.
for Timer............ to set the timer function.
PRESET ▼ ▲
PLAY•PAUSE ▶ II
DIRECTION II◀ ▶ II
for CD/VCD/MP3-CD…to start or interrupt playback (only ▶ II is available).
for Tuner .... to select a preset radio station.
for Tape .... to start playback in selected direction or pause.

13 **▲ OPEN**
– to open the tape deck door.

14 **Tape compartment**

15 **RECORD ●**
– to turn to record ready state (in CD/VCD or Tuner mode only).

16 **REPEAT•DEMO**
for MP3-CD only…to repeat a track, an album or whole disc.
for CD/VCD .... to repeat a disc track or the whole disc.
for DEMO .... to activate/deactivate the demonstration.

17 **MIC**
– to connect microphone.

18 **PROGRAM**
for CD/VCD/MP3-CD…to programme disc tracks.
for Tuner .... to programme preset radio stations.
for Clock .... to set or reset clock.
for Timer............ to set or reset timer.

19 **iR SENSOR**
– infrared sensor for remote control.

20 **TIMER ON/OFF / SET**
– to activate/deactivate or set the timer.

21 **CLOCK**
– to view the clock or set the clock
– to select the sleep time.

22 **SLEEP**
– to select the sleep time.

10

23) **DIGITS 0 – 9, +10**

for CD/VCD/MP3-CD…to select a track
number.
for Tuner .... to select a preset radio station.

24) **NTSC/PAL**

– to select the video output for NTSC or PAL
system.

25) **GOTO**

– to start playback at any chosen time on the disc
(for CD/VCD operation only).

26) **SLOW**

– to watch a VCD at a slower speed (for VCD
operation only).

27) **PBC (PLAYBACK CONTROL)**

– to switch on or off PBC mode (for VCD version
2.0 only).

28) **A - B**

– to playback a certain scene or passage
repeatedly (for CD/VCD operation only).

29) **RESUME**

– to continue playback again from where you have
stopped. Only when PBC mode is switched off
(for CD/VCD operation only).

30) **VIEW**

– to scan through a VCD with 9 pictures display on
TV screen. Only when PBC mode is switched off
(for VCD operation only).

31) **RETURN**

– to return to the previous MENU level during
playback (for VCD with PBC on).

32) **KEY**

– to display and set the key tone level.

33) **MUTE**

– to interrupt and resume sound reproduction.

34) **MIC/ECHO**

– to display and set the MIC volume level and
echo level for karaoke.
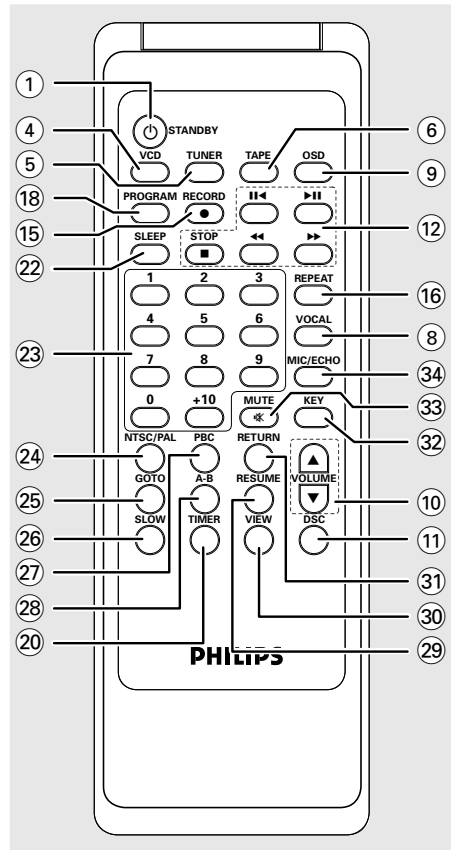
Basic Functions

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

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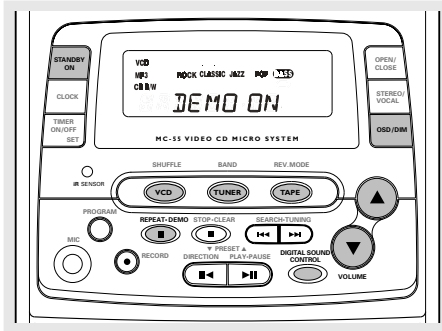
The system has a demonstration mode that shows the various features offered by the system.

To activate the demonstration
● In Standby mode, press **REPEAT·DEMO** on the system or **REPEAT** on the remote control.
→ "⎅⟑⋔⟒ ⟒⋔" will be displayed.
→ The demonstration will begin.

To deactivate the demonstration
● Press **REPEAT·DEMO** again or **STANDBY ON**.
→ "⎅⟑⋔⟒ ⟒⎎⎎" will be displayed.
→ The system will switch to Standby mode.

Switching the system on

● Press **STANDBY ON** or **CD**/**TUNER**/**TAPE**.
→ The system will switch to the last selected source or the selected source.

Note:
– If the demonstration mode is active, it is not possible to switch on the system, "⎅⟑⋔⟒ ⟒⋔" will be displayed.

Switching the system to Standby mode

● Press **STANDBY ON**.
→ "⟑⊬⟑ ⟑⊬⟑" will scroll through briefly and the clock will be displayed.

Volume control

● Press **VOLUME ▲** to increase or **VOLUME ▼** to decrease the volume level.
→ "⎺⟑⎍ ⟟⟟" will be displayed. "⟟⟟" denotes the volume level.

To switch off the volume temporarily
● Press **MUTE** on the remote control.
→ Playback will continue without sound and "⋔⎍⟒⟒" will be displayed.
● To restore the volume, press **MUTE** again or increase the VOLUME level.

Sound control

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

● Press **DIGITAL SOUND CONTROL (DSC)** to select the desired sound effect : POP, CLASSIC, ROCK, JAZZ or FLAT.

To switch the BASS on/off
● Press and hold **DIGITAL SOUND CONTROL (DSC)** until "⟑⟑⟑ ⟒⋔" or "⟑⟑⟑ ⟒⎎⎎" is displayed.
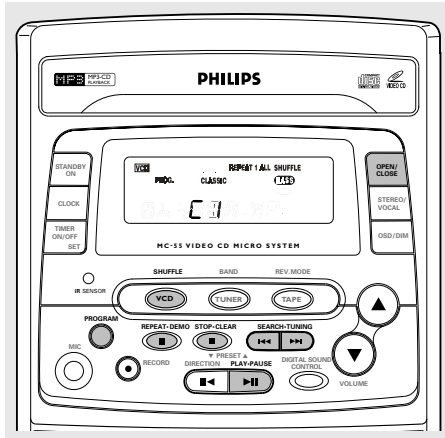→ If BASS is switched on, **BASS** will appear on the display

Dim mode

You can select the desired brightness for the display.

● Press and hold **OSD/DIM** to select DIM HIGH, DIM LOW or LED OFF.
→ "⎅⟟⋔ ⟑⟟⟑⟑", "⎅⟟⋔ ⟒⟟⟇" or "⟒⟒⎅ ⟒⎎⎎" will be displayed.

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IMPORTANT!

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

The CD part of this system also serves as a Video CD player if you connect it to your TV set.
Before viewing the Video CD, ensure that the set is switched to corresponding PAL or NTSC system of your TV set (exception Multi-system TV).

Discs for Playback

This system can playback all digital audio CD, video CD, finalised digital audio CD-Recordable (CDR) discs and finalised digital audio CD-Rewritable (CDRW)discs.
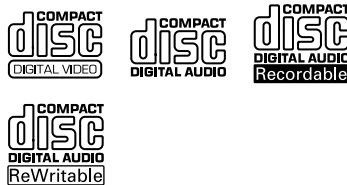
Support following MP3-CD formats:

● ISO 9660 format - Max. 17 characters
● Max. Track number plus Album is 256
● Max. nested directory is 8 levels
● The max. ALB number is 99
● The max. MP3 programme track number is 99
● The max. length of each track is 255 minutes 59 seconds
● The player can play mixed mode disc:
    a: MP3 + CDDA can only play the MP3 tracks in the first block.
    b: VCD + CDDA full support
● Supported VBR bit-rate
● Supported sampling frequencies for MP3 disc : 32 kHz, 44.1 kHz, 48 kHz
● Supported Bit-rates of MP3 disc are: 32, 64, 96, 128, 192, 256 (kbps)

Following formats can't be supported

● The files like *.WMA, *.AAC, *.DLF, *.M3U, *.PLS
● Chinese filename
● The non-session closed discs
● The discs recorded under UDF format
● Multi-session discs (can only play the first session if the session's format is the supported format).

Loading a disc

1 Press **VCD** to select CD/VCD mode.
2 Press **OPEN/CLOSE**.
➜ The disc tray slides out.
3 Load a disc with the label side facing up.
4 Press **OPEN/CLOSE** to close the disc tray.
➜ The total number of tracks and the playing time of the disc appear on the display.

For MP3-CD only

● Load a MP-3 CD format music disc on the disc tray.
➜ The total album number and total track number will scroll through the display briefly, then "ALⁱ TOOⁱ" will be displayed
➜ On TV screen, the total ALBUM and TRACK number will display, also with the album list (max. 5 lines per page) and an arrow. The arrow indicates the current selected music.

Notes:

– To ensure good system performance, wait until the disc tray completely reads the disc 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 /VCD / MP3-CD

Playing a normal disc

1 Press ▶︎❚❚ to start playback.

➜ The track number and elapsed playing time of the current track appear on the display.

● To interrupt playback, press ▶︎❚❚.

➜ The playing time will start flashing.

● To resume playback, press ▶︎❚❚ again.

2 To stop playback, press ■.

Selecting a desired track/passage

To select a desired track

● Press ❙◀◀ or ▶▶❙ repeatedly (or **digits 0 – 9**, **+10** on the remote control) until the desired track appears on the display.

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

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.

For MP3-CD only

To select a desired Album

● Press and hold ❙◀◀ or ▶▶❙ until the desired Album number appear on the display.

➜ "*A*ᴷᴷ *T00 1*" will be displayed and the album name will scroll through the display briefly.

➜ On TV screen, the arrow will move forward/ backward in the ALBUM menu.

To select a desired Track

● Press ❙◀◀ or ▶▶❙ repeatedly to select a desired track from the current Album.

➜ "*A0 1 T*ᴷᴷᴷ" will be displayed and the track name will scroll through the display briefly.

➜ On TV screen, the arrow will move forward/ backward in the TRACK menu.

● Use the digital keys on the remote control to select the track under current Album directly.

To select and playback another track during playback mode

1 Press ❙◀◀ or ▶▶❙ repeatedly to select another track.

➜ The current track continues playing.

➜ The new selected track will show on the display screen and TV screen.

2 Press ▶︎❚❚ to start playback the new selected track.

Note:

– "A" represents ALBUM and "T" represents TRACK, "ᴷᴷ" or "ᴷᴷᴷ" is the current selected Album or Track number.

Programming tracks

Programming tracks of disc is possible when playback is stopped. Up to 20 tracks can be stored in the memory in any order (except for MP-3 CD).

1 In stop mode, press **PROGRAM** to enter programme setting.

➜ **PROG** and the current selected track number will start flashing.

➜ "*P*ᴷᴷ *T*ᴷᴷ" will show on the display screen and TV screen.

2 Press **digits 0 – 9**, **+10** on the remote control or ❙◀◀ / ▶▶❙ to select the desired track.

3 Press **PROGRAM** to store the select track.

➜ "*P*ᴷᴷ *OK*" will show on the display screen and TV screen.

● Repeat steps **1** to **3** to store other tracks.

4 Press ■ to end programme setting.

➜ **PROG** will remain on the display.

● Press ❙◀◀ or ▶▶❙ in stop mode to review the programme sequence.

5 Press ▶︎❚❚ to play the programmed tracks.

● If you press **REPEAT** during programme playback, the current track or all programmed tracks will be played repeatedly.

➜ **REPEAT 1/REPEAT ALL** and **PROG** will appear on the display.

6 Press ■ in stop mode to clear the programme.

➜ "*PRG CLEAR*" will be displayed.

➜ **PROG** will disappear from the display.

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Notes:
– "P" represents PROGRAMME and "T" represents TRACK, "XX" is the current selected Programme or Track number.
– The programming is automatically cleared as soon as the CD compartment is opened.
– The function of programme setting is disable in PLAY/PAUSE mode.
– Programme cannot be used for VCDs when PBC is switched on. Switch off PBC before storing tracks from such a VCD.

For MP3-CD only

1 In stop mode, press **PROGRAM**.
➜ **PROG** will start flashing and "AXX TXXX" will be displayed.
➜ On TV screen, "PXX AXX TXX?" and "PROGRAM" will be displayed.

2 Press and hold |◀◀ / ▶▶| to select the desired ALBUM and press |◀◀ / ▶▶| repeatedly (or **digits 0 – 9**, **+10** on the remote control) to select the desired TRACK for programming.

3 Press **PROGRAM** to store the selection.
➜ "PXX OK" will appear on the display briefly and the programmed album and track number will be displayed.
➜ **PROG** will remain on the display.

● Repeat steps **1** to **3** to store other desired album and track.

● Press |◀◀ or ▶▶| in stop mode can review the programme sequence.
➜ "PXX AXX TXXX" will scroll through briefly.

● Press **OSD** in stop mode to show the programme information.
➜ The Album's name and Track's name will scroll through briefly.

4 Press ▶ II to start programme playback. You can press |◀◀ / ▶▶| to select the programmed track to play.

5 Press ■ **once** stop programme playback or **twice** to clear the programme.

Shuffle

You can play all the tracks in random order.

1 During playing, pause or stop mode, press **SHUFFLE (VCD)** to enable SHUFFLE play mode.
➜ **SHUFFLE** will appear on the display.

2 To exit shuffle mode, press **SHUFFLE (VCD)** again or ■.
➜ **SHUFFLE** will disappear from the display.

Note:
– If the Shuffle function enabled, and the Repeat function is set on, will disable the Shuffle play mode.

Repeat

You can play the current track or the whole disc repeatedly.

1 During CD Playing or Pause mode, press **REPEAT** on the remote control or **REPEAT•DEMO** on the system to select REPEAT 1 or REPEAT ALL mode.
➜ **REPEAT 1** – to repeat the current track.
➜ **REPEAT ALL** – to repeat the whole disc.

● For MP3-CD, you are able to select REPEAT 1, REPEAT ALL or REPEAT ALB mode.
➜ **REPEAT ALB** – to repeat the current album.

● The current track or whole disc will now be played repeatedly until you press ■.

2 To exit the repeat mode, press **REPEAT** until the **REPEAT 1**/**REPEAT ALL**/**REPEAT ALB** disappears from the display.

Notes:
– If the Repeat function is enable, and the Shuffle function is set on, will disable all the Repeat play modes.
– If the Repeat function is enable, and the Stop button is pressed, will disable all the Repeat play modes.
– In programme mode, you can only select Repeat 1 or Repeat All function.
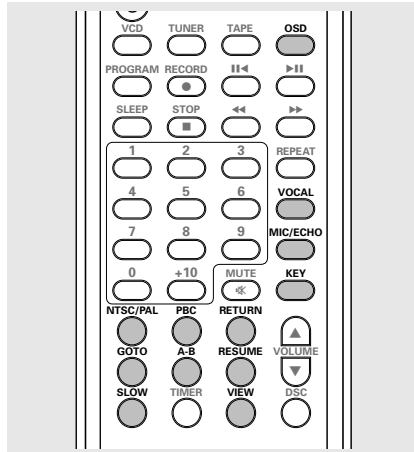
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CD / VCD / MP3-CD

VIDEO CD

Adjusting the TV System

Before viewing the Video CD, ensure that the set is switched to corresponding PAL or NTSC system of your TV set (exception Multi – system TV).

● Press **NTSC/PAL** on the remote control to switch between NTSC and PAL TV system.
➜ After TV system is selected, the set will automatically switch to the last TV system setting every time the VCD source is selected.

OSD – On Screen Display

If you insert VCD/CD, your TV screen will serve as an additional display for messages (e.g. PLAY, STOP), and information stored on the VCD/CD.

● Press **OSD** on the remote control or **OSD/ DIM** on the system repeatedly to select viewing various information.
➜ The current track and current /remaining time in the track/disc appear on the display.

Playing a Video CD with PBC

VCD with PBC (Playback Control) will be indicated on the display of the set and on your TV screen as soon as they are inserted. PBC is a predefined play sequence stored on the VCD.

1 Switch on the TV, insert a VCD with PBC.
2 Menu appears on the TV screen.

If the menu consists of a list of titles, you can select a sequence directly

1 Press **digits 0 – 9**, **+10** on the remote control to select your choice.
➜ The VCD starts playing of the selected sequence automatically.
2 Press **RETURN** on the remote control to go back to the previous menu.

Note:
– If a menu consists of more than one page, press
|◀◀ / ▶▶| *to go through the pages.*

Switching off PBC

● In stop mode, press **PBC**.
➜ On TV screen, "**PBC OFF**" will be displayed.

Notes:
– Programme mode is not available whenever PBC mode is switched on.
– The menu structure depends on the programme stored on the VCD. Please refer to the information supplied with the disc.

Pause

1 During playback, press ▶ **II** to have a still picture on the TV screen.
➜ The sound will be muted.
➜ On TV screen, "**PAUSE**" will be displayed.
2 Press ▶ **II** again to continue playback.

Goto

1 Press **GOTO** on the remote control.
➜ "⎯⎯:⎯⎯" will be displayed.
➜ On TV screen, "**GOTO --:--**" will be displayed.
2 Press **digits 0 – 9**, **+10** on the remote control to key in the disc time which you want the disc to begin playback.

Note:
– The disc time entered should not be greater than the total disc time.

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Slow

1 Press **SLOW** on the remote control to watch a VCD at a slower speed. There are 3 types of slow modes to select.

➔ The sound will be muted.

➔ On TV screen, "**SLOW 1/2**", "**SLOW 1/4**" or "**SLOW 1/8**" will be displayed.

2 To resume playback at normal speed, press **SLOW** repeatedly until "**PLAY**" appears on the TV screen or press ▶ Ⅱ.

A-B repeat

This feature is also applicable to audio CD (except for MP3-CD). To Play a certain scene or passage of the disc repeatedly.

1 Press **A-B** on the remote control during playback to mark the start point of the chosen scene or passage.

➔ "**A→**" will appear on the display.

➔ "**B**" will start flashing.

2 Press **A-B** again to mark the end of the chosen scene or passage.

➔ "**A→B**" will appear on the display.

➔ The selected scene or passage will start playing repeatedly.

3 Press **A-B** once more to return to normal playback.

➔ "**A→B**" will disappear from the display.

Notes:

– You can also cancel A-B repeat by pressing ◀◀ or ▶▶.

– A-B repeat marking can cross from one track to another. But for VCD 2.0, you can only able to set the A-B repeat marking within the same track.

Resume

● In stop mode, press **RESUME** on the remote control to start playback again from where you have stopped.

Note:

– Resume will not be available if you have changed the disc, opened the disc tray or disconnected the system the power supply.

View

This feature allows you to scan through a VCD for a quick review. PBC mode must be switched off.

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

➔ On TV screen, 9 pictures will be displayed. To view the previous/next page, press ◀◀ or ▶▶.

➔ The first 20 seconds of each track will be played.

2 To exit review mode, press **digits 0 – 9**, **+10** to playback the desired track or ▶ Ⅱ to play the current selected track.

Note:

– If the disc is AVCD disc and there're no video tracks on the same viewed page, cannot use the direct digital key to play the track.

Return

● Press **RETURN** on the remote control to return to the previous VCD disc MENU level. It is functional only for Video CD when PBC is switched on.

Key (♭ ♮ ♯)

This feature allows you to change the key tone of your vocal range.

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

➔ The last selected key tone level will be displayed.

● Press **KEY** again to change the tone level to "0".

2 Press **VOLUME** ▲ or ▼ to adjust the key tone.

➔ The key tone level can be increase or decrease between level ＋8 and －8.

MIC Volume and Echo

This feature allows you to add echo while singing or talking through a microphone.

To adjust microphone volume level

1 Press **MIC/ECHO** on the remote control repeatedly until "MIC X" is displayed.

2 Press **VOLUME** ▲ or ▼ to increase or decrease the MIC volume.

➔ The volume level will be displayed.

To adjust echo level

1 Press **MIC/ECHO** on the remote control repeatedly until "ECHO X" is displayed.

2 Press **VOLUME** ▲ or ▼ to increase or decrease the echo level.

➔ The echo level will be displayed.

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CD / VCD / MP3-CD

Vocal

This feature allows you to fade out the original vocal from a Karaoke VCD. You can also use it to select the different audio modes.

● Press **VOCAL** on the remote control or **STEREO/VOCAL** on the system repeatedly to select the following modes:

"CH LEFT" → "CH RIGHT" →
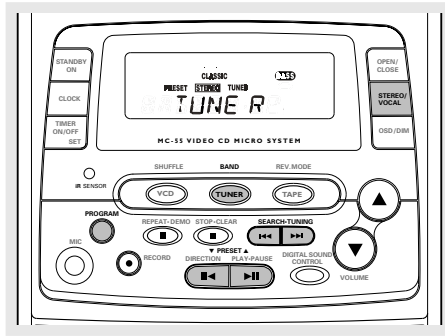"VP LEFT" → "VP RIGHT" → "STEREO" ...

STEREO – same effect as the original recorded disc.
VP LEFT/RIGHT – fade out the original vocal for special recorded Karaoke disc only.
CH LEFT/RIGHT – select the language on a bilingual VCD.

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Tuning to radio stations

1 Press **TUNER** to select Tuner mode.
➜ "*TUNER*" will be displayed and then followed by the current radio frequency.

2 Press **BAND** (**TUNER**) to select the desired waveband : FM or AM.

3 Press and hold |◀◀ or ▶▶| until "*SEARCH*" is displayed.
➜ "*SEARCHING*" will scroll through briefly until a radio station with sufficient signal strength is found.

● Repeat this procedure until the desired station is reached.

● To tune to a weak station, briefly press |◀◀ or ▶▶| repeatedly until the display shows the desired frequency or when the best reception has been obtained.

Storing preset stations

You can store up to 20 for FM and 10 for AM radio stations in the memory. When a preset radio station is selected, the preset number appears on the display.

Manual programming

1 Press **TUNER**.

2 Press **BAND** (**TUNER**) to select the desired waveband: FM or AM.

3 Press |◀◀ or ▶▶| to tune to the desired frequency.

4 Press **PROGRAM**.
➜ **PROG** will start flashing.
➜ The current preset number will be displayed for selection.

5 If you wish to store the radio station to another preset number, press **II◀** or ▶**II** to select the desired preset number.

6 Press **PROGRAM** again to store the radio station.
➜ "*STORED*" will scroll through briefly.

● Repeat steps **3** to **6** to store other preset radio stations.

Note:
– During programming, if no button is pressed within 5 seconds, the system will exit programme mode automatically.

Tuning to preset radio stations

● Press **II◀** or ▶**II** to select the desired preset number.
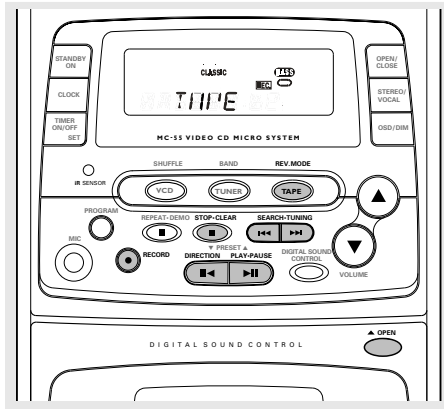➜ The preset number, radio frequency, and waveband will appear on the display.

Mono/Stereo

● Press **STEREO/VOCAL** repeatedly to select mono or stereo mode.
➜ When STEREO mode is selected, **STEREO** will appear on the display (if current station is FM stereo).

Note:
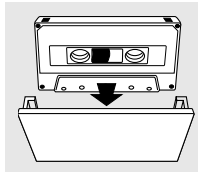*– You are able to select mono or stereo mode in FM band only.*

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Tape Operation/Recording

Loading a tape

1 Press ▲ **OPEN** to open the tape deck door.
2 Insert a recorded tape and close the tape door.
● Load the tape with the open side down.

Tape playback

1 Press **TAPE** to select Tape mode.
2 Press **II◄** or **► II** to select the direction for playback.
 ➜ "PLAY" with playback direction indicator will appear on the display.
● To interrupt playback, press the last selected **II◄** or **► II** button.
 ➜ "PAUSE" will be displayed.
● To resume playback, press **II◄** or **► II** again.
3 To stop playback, press ■.

Auto Reverse

● Press **REV. MODE** (**TAPE**) repeatedly to select the different playback modes.
 ⊐ : playback on one side of the tape only.
 ⊐⊃ : both sides are played once.
 ⊂⊃ : both sides are played repeatedly, up to 10 times each side unless you press ■ .

Rewind/Fast forward

1 Press **I◄◄** or **►►I** to rewind or fast forward the tape.
 ➜ "TAPE" with the direction indicator will appear on the display.
2 Press ■ to stop rewinding or fast forwarding.
● The tape will stop automatically at the end of the rewinding or fast forwarding.

General information on recording

● Recording is permissible if copyright or other rights of third parties are not infringed upon.
● If you do not intend to record via the microphone, unplug the microphone to avoid accidental mixing with other recording source.
● For recording, use only tape of IEC type I (normal tape).
● The recording level is set automatically, regardless of the position of the Volume, 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 "ERROR" or "TAPE PROTECTED" is displayed, the protection tab has been broken. Put a piece of clear adhesive tape over the opening.

Recording

1 Load a recordable tape into the tape deck.
2 Press **VCD** or **TUNER** to select the recording source.
3 Press **RECORD**.
 ➜ "REC ◁I I▷" will be displayed and **REC** starts flashing.
4 Press **REV. MODE** (**TAPE**) repeatedly to select a recording mode.
 ➜ ⊐ for recording on one side only.
 ➜ ⊐⊃ for recording on both sides.
5 Press **II◄** or **► II** to start and select the direction for recording.
 ➜ **REC** will remain on the display.
● To stop recording, press ■ .
 ➜ The selected recording source will continue playing.

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Note:
*– During recording, it is not possible to change
tape direction or listen to another source.*

Recording timer

To record a radio station from a specified time,
you will need to use a preset radio station and
to set a start (ON) and finish (OFF) time.

1 Load a recordable tape into the tape deck.
➜ If desired, select tape reverse mode option.

2 Follow the "**Timer setting**" procedure as
described on **page 22** to store the starting and
finishing time for recording. Select "REC TU" as
the wake up source for timer recording.

Note:
*– If the system is switched on and the preset time
is reached, it is not possible to activate the
recording timer.*

Karaoke

MIC

Microphone Mixing

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

1 Connect a microphone to the MIC jack.
● Before connecting the microphone, reduce
volume to prevent howling sound.

2 Select **VCD** and press ▶ II to start playback.

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

4 Press **MIC/ECHO** to adjust the MIC and
ECHO level to the desired mixing level.

5 Start singing or talking through the microphone.

Notes:
*– Keep the microphone away from the speakers to
prevent howling.*
*– Microphone mixing only available in CD/VCD
mode.*

21

Clock/Timer

View clock

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

To view the clock in any source mode (VCD or TUNER for example)
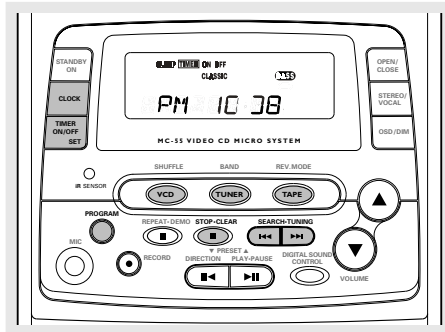● Press **CLOCK**.
➔ The clock will be displayed for a few seconds.
➔ If the clock has not been set, "24 HOUR" or " 12 HOUR" will start flashing.

Clock setting

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

1 Press **CLOCK** to select clock mode.
2 Press **PROGRAM** to select clock setting mode.
➔ "24 HOUR" or " 12 HOUR" will start flashing.
3 Press |◄◄ or ►►| to select 12- and 24- hour mode.
4 Press **PROGRAM** to confirm the selection.
➔ The hour indication will start flashing.
5 Press |◄◄ or ►►| to set the hours.
6 Press **PROGRAM** to confirm the selection.
➔ The minutes indication will start flashing.
7 Press |◄◄ or ►►| to set the minutes.
8 Press **PROGRAM** to store the setting
➔ The clock will start working.
● To exit without storing the setting, press ■ on the system.

Notes:
– The clock setting will be erased when the power cord is disconnected or if a power failure occurred.
– During clock setting, if no button is pressed within 5 seconds, the system will exit clock setting mode automatically.

Timer setting

The system can switch on to VCD, 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 can only be activated from Standby mode.

1 Press and hold **TIMER ON/OFF (SET)** on the system or **TIMER** on the remote control for more than 2 seconds to select timer setting mode.
➔ **TIMER** will appear on the display.
● Press |◄◄ or ►►| repeatedly to view the previous setting.
2 Press **PROGRAM** to change the previous setting or start a new setting.
➔ "TUNER", "TAPE", "CD" or "REC TU" will start flashing.
3 Press |◄◄ or ►►| to select the desired source.
4 Press **PROGRAM** to confirm the selection.
● If "TUNER" or "REC TU" is selected, press **TUNER** to select the current radio station or press |◄◄ or ►►| to select a desired preset radio station and press **PROGRAM** to confirm the selection.
➔ "VOL" and the volume level will start flashing.
5 Press |◄◄ or ►►| to set the volume level.
6 Press **PROGRAM** to confirm the setting.
➔ **ON** and the hour indication will start flashing.
7 Set the time to start playback.
Press |◄◄ or ►►| to set timer start hours and press **PROGRAM** to store the setting and repeat the same procedure to set the minutes.
➔ **OFF** and the hour indication will start flashing.
8 Set the time to stop playback following the above procedure.
➔ "TIMER OK" will be display briefly and the timer is now set.
9 Switch the system to standby mode.

● When reached the preset timer, the selected source will play if the timer has been activated.

Clock/Timer

English

To activate/deactivate the TIMER
● Press **TIMER ON/OFF (SET)** (or **TIMER** on the remote control).
→ If activated, **TIMER** will appear on the display.

Notes:
– The timer will not be activated if the starting and stopping time are the same.
– If the selected source (CD or TAPE) is not available when preset timer is reached, TUNER will be selected automatically.
– During timer setting, if no button is pressed within 10 seconds, the system will exit timer setting mode automatically.

Sleep timer setting
If the sleep timer is activated, the system will switch to standby mode after the selected time has expired.

1 When the **SLEEP** on the remote control is pressed for the first time, the set turn to sleep mode.
→ "SLEEP OFF" will be displayed.

SLEEP

1
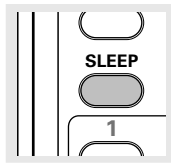
2 Press **SLEEP** again repeatedly to select a sleep time.
→ The selections are as follows:
120 MIN → 110 MIN ... ...→ 20 MIN → 10 MIN → 1 MIN → SLEEP OFF→ 120 MIN... ...

3 When you reach the desired length of time, stop pressing the **SLEEP** button.
→ **SLEEP** will appear on the display, except for "SLEEP OFF" mode.

While SLEEP mode is activated

To check the remaining length of time
● Press **SLEEP once**.
→ "XXX MIN" will be displayed. "XXX" is the time in minutes.

To change the preset sleep timer
● Press **SLEEP twice**.
→ The display will show the remaining time followed by the nearest sequence of sleep timer options.

To deactivate the Sleep Timer
● Press **SLEEP** repeatedly until "SLEEP OFF" is displayed, or press the **STANDBY ON** button.

*Notes:*
– Press and hold the CLOCK button on the system to switch to sleep mode, the CLOCK button will now able to operate the same function as SLEEP button on the remote control.
– If timer off and the sleep off are all activated, the system will switch to standby mode by the earlier time set.

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pg 001-026/MC55/21-Eng   23   6/8/01, 1:41 PM   point 2

Specifications

AMPLIFIER

Output power .... 2 × 12 W RMS
.... 500 W PMPO
Signal-to-noise ratio .... ≥ 60 dBA (IEC)
Frequency response .... 80 – 15000 Hz, ± 3 dB
Microphone input sensitivity .... 3.5 mV
Output impedance .... ≥ 8 Ω
(1) (8 Ω, 1 kHz, 10% THD)

DISC PLAYER

Number of programmable tracks 20
Frequency response .... 20 – 20000 Hz
Signal-to-noise ratio .... ≥ 60 dBA
Channel separation .... ≥ 40 dB
Total harmonic distortion .... ≤ 0.6%
MPEG 1 .... VCD version 1.1 & 2.0
MPEG 1 Layer 3 (MP3-CD) .... MPEG AUDIO
MP3-CD bit rate .... 32 – 256 kbps
Sampling frequencies .... 32, 44.1, 48 kHz

TUNER

FM wave range .... 87.5 – 108 MHz
AM wave range .... 531 – 1602 kHz
Tuning grid (FM/AM) .... 50/9 kHz
Number of presets (FM/AM) 20/10
Antenna
  FM .... 75 Ω wire
  AM .... Loop antenna

TAPE DECK

Frequency response .... 100 – 10 kHz (±8 dB)
Signal-to-noise ratio .... ≥ 44 dB
Wow and flutter .... ≤ 0.4% DIN

SPEAKERS

System .... 2 way, double port output
Impedance .... 8 Ω
Woofer .... 1 × 5.25"
Tweeter .... 1 × 1.5"
Dimensions (w × h × d) . 160 × 268 × 226 (mm)
Weight .... 2.45 kg each

GENERAL INFORMATION

Material .... Polystyrene
AC Power .... 110 – 127 / 220 – 240 V;
.... 50/60 Hz Switchable
Power Consumption
  Active .... 40 W
  Standby .... ≤ 10 W
Dimensions (w × h × d) .. 160 × 268 × 226 (mm)
Weight (without speakers) .... 4.85 kg

Subject to modification

24

Cleaning the Cabinet

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

Cleaning Discs

● When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe in circular motion.

● Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analogue records.
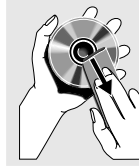
Cleaning the disc lens

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

Cleaning the Heads and the Tape Paths

● To ensure good recording and playback quality, clean the heads (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 also can clean the heads by playing a cleaning tape once.
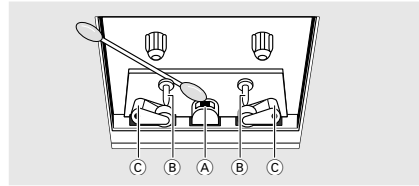
Demagnetising the heads

● Use a demagnetising tape available at your dealer.

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 remedy a problem by following these hints, consult your dealer or service centre.

Problem	Solution
CD/VCD OPERATION	
"NO DISC" **is displayed.**	– Insert a disc.
	– Check if the disc is inserted upside down.
	– Wait until the moisture condensation at the lens has cleared.
	– Replace or clean the disc, see "Maintenance".
	– Use a readable disc or correct recorded format MP3-CD.
No picture on TV screen.	– Connect the cable between the system and TV.
No colour on TV.	– Change the system to the respective PAL or NTSC setting.

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Troubleshooting

RADIO RECEPTION

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

TAPE OPERATION/RECORDING

"*RECORDING*" **is displayed.**	– Stop the recording or wait until it is finished.
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.

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. – 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 (VCD 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 in the direction of the system's IR sensor.
The timer is not working.	– Set the clock correctly. – Press TIMER ON/OFF (SET) to switch on the timer. – Switch the system to standby mode.
Not all lighted buttons are showing light.	– Press OSD/DIM to select DIM HIGH 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 REPEAT•DEMO to switch off the demonstration.

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