



Micro Hi-Fi System



*Let's make things better.*



**PHILIPS**



## México



Es necesario que lea cuidadosamente su instructivo de manejo.

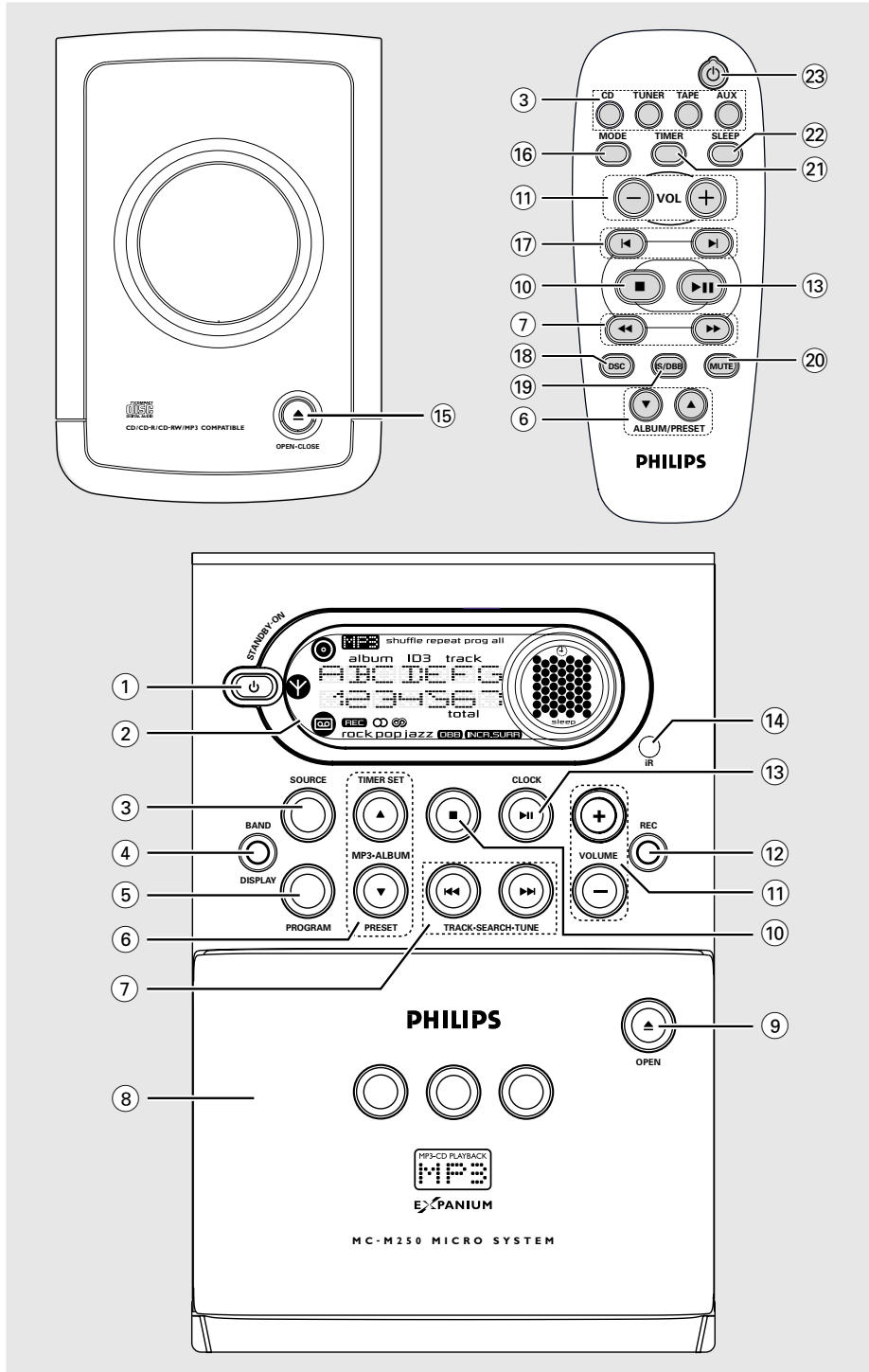
	<b>PRECAUCIÓN - ADVERTENCIA</b> No abrir, riesgo de choque eléctrico	
	<b>ATENCIÓN</b> Verifique que el voltaje de alimentación sea el requerido para su aparato	
Para evitar el riesgo de choque eléctrico, no quite la tapa. En caso de requerir servicio, dirijase al personal calificado.		

Descripción: **Microsistema de Audio**  
Modelo : **MC-M250/21**  
Alimentación: **110-127 / 220-240V; ~50-60 Hz**  
Consumo: **26 W**  
Importador: **Philips Mexicana, S.A. de C.V.**  
Domicilio: **Norte 45, # 669,  
Col. Industrial Vallejo**  
Localidad y Tel: **C.P. 02300 México D.F.,  
Tel. 5728-4200**  
Exportador: **Philips Electronics HK, Ltd.**  
País de Origen: **China**  
N° de Serie: \_\_\_\_\_

**LEA CUIDADOSAMENTE ESTE INSTRUCTIVO  
ANTES DE USAR SU APARATO.**

### **CAUTION**

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



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English

## General Information

### Supplied accessories

- 2 speaker boxes
- remote control
- batteries (two AAA size) for remote control
- AM loop antenna
- FM wire antenna

### Environmental Information

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

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

### Safety information

- Place the system on a flat, hard and stable surface.
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system. Allow at least 10 cm (4 inches) clearance from the rear and the top of the unit and 5 cm (2 inches) from each side.
- Do not expose the system, batteries or discs to excessive moisture, rain, sand or heat sources caused by heating equipment or direct sunlight.
- The lens may cloud over when the system is suddenly moved from cold to warm surroundings, making it impossible to play a disc. Leave the system in the warm environment until the moisture evaporates.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- **When the system is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

### About MP3 disc

#### Supported formats

- ISO9660, Joliet, Multisession
- Max. track number plus album is 300
- Max. nested directory is 8 levels
- The max. album number is 30
- The max. MP3 programme track number is 20
- Supported VBR bit-rate
- Supported sampling frequencies for MP3 disc are: 32 kHz, 44.1 kHz, 48 kHz
- Supported Bit-rates of MP3 disc are: 32, 64, 96, 128, 192, 256 (kbps)

#### Making your own MP3-CD

- 1 Rip the music from your own Digital Audio CDs or download legal MP3 music from the Internet.
- 2 Record ("burn") the music on CD-R(W) disc with your home PC. Make sure to use a recording speed not faster than indicated on the CD-R(W) and avoid running other programme simultaneously on your PC during the recording process.

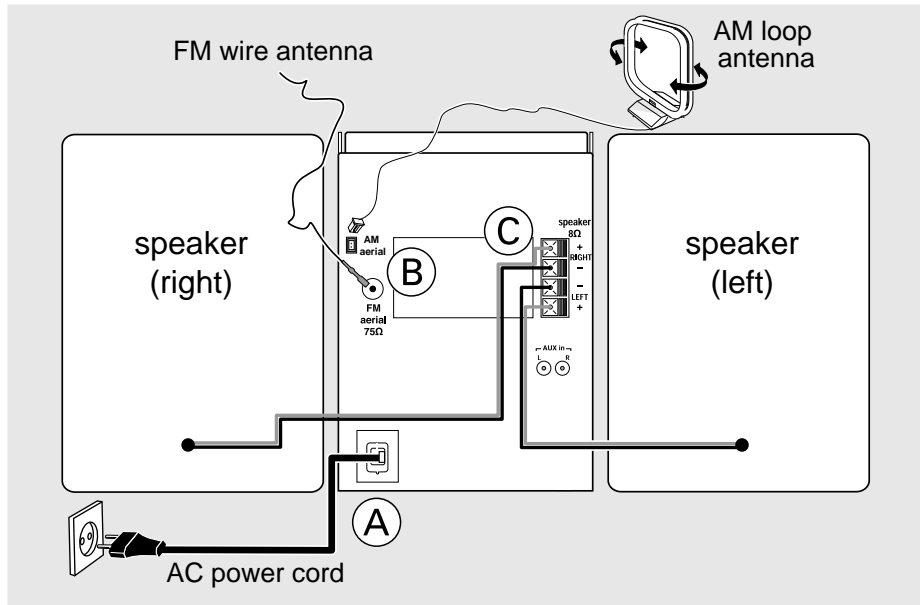
#### Sound Quality

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.**



English

## Preparations



### Rear connections

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

#### A Power

Before connecting the AC power cord to the wall outlet, ensure that the following are done;

- If your system is equipped with a Voltage Selector; set the VOLTAGE SELECTOR to the local power line voltage.
- All other connections have been made.

#### WARNING!

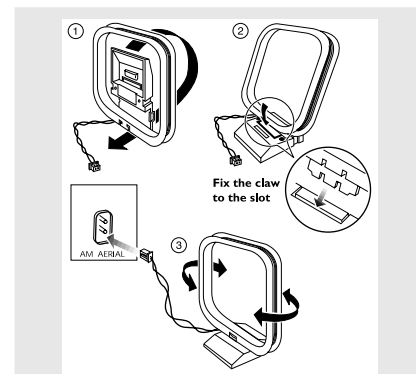
- For optimal performance, use only the original power cable.
- Never make or change connections with the power switched on.

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

#### B Antennas Connection

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

#### AM Antenna



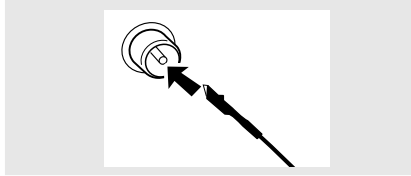
- Position the antenna as far as possible from a TV, VCR or other radiation source.





## Preparations

### FM Antenna

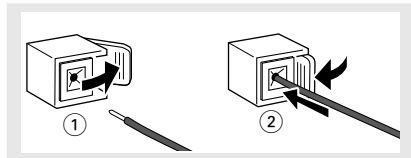


- For better FM stereo reception, connect an outdoor FM antenna to the FM AERIAL (FM ANTENNA) terminal.

### Speakers Connection

#### Front Speakers

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



- Fully insert the stripped portion of the speaker wire into the terminal as shown.

#### Notes:

- For optimal sound performance, use the supplied speakers.
- Do not connect more than one speaker to any one pair of + / - speaker terminals.
- Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.

### Optional connection

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

### Connecting other equipment to your system

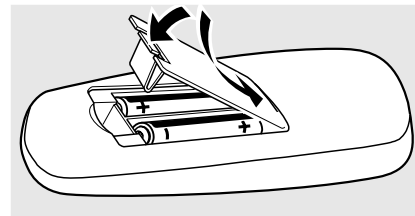
Connect the audio left and right OUT terminals of a TV, VCR, Laser Disc player, DVD player or CD Recorder to the **AUX IN** terminals.

#### Note:

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

### Inserting batteries into the remote control

Insert two batteries (type R03 or AAA) 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.



## Controls (illustrations on page 3)

### Controls on the system and remote control

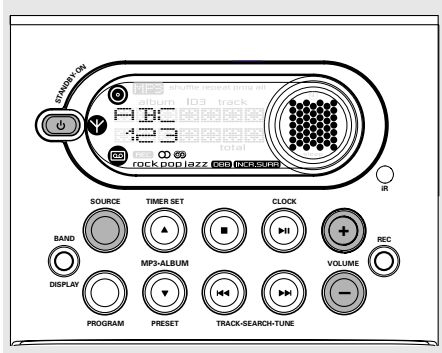
- ① **STANDBY ON**
- to switch the system on or to standby mode.
- ② **Display screen**
- to view the current status of the system.
- ③ **SOURCE**
- to select the respective sound source : CD, TUNER, TAPE or AUX.
- ④ **BAND / DISPLAY**
- for Tuner ..... to select waveband : FM or MW.
  - for CD/MP3-CD... to select disc information display mode.
- ⑤ **PROGRAM**
- for CD/MP3-CD... to programme disc tracks.
  - for Tuner ..... to programme preset radio stations.
- ⑥ **▲▼ PRESET / MP3-ALBUM / TIMER SET**
- for MP3-CD ..... to select previous/next album.
  - for Tuner ..... to select a preset radio station.
  - for Timer (▲) ... (on the system only) to set the timer function.
- ⑦ **◀◀▶▶ TRACK-SEARCH-TUNE**  
(◀◀ ▶▶ on remote control)
- for CD ..... to fast reverse/forward the disc.
  - for CD/MP3 CD... (on the system only) to select a desired track.
  - for Tuner ..... to tune to a lower or higher radio frequency.
  - for Tape ..... to rewind or fast forward.
- ⑧ **Tape deck**
- ⑨ **OPEN**
- to open tape compartment.
- ⑩ **■**
- for CD/MP3-CD... to stop playback or to clear a programme.
  - for Tape ..... to stop playback or recording.
- ⑪ **VOLUME + / -**
- to increase or decrease the volume.
  - (on the system only) to adjust the hours and minutes for the clock/timer functions.
- ⑫ **RECORD**
- to start recording.
- ⑬ **▶ II / CLOCK**
- for CD/MP3-CD... to start or interrupt playback.
  - for Tape ..... to start playback.
  - for Clock ..... (on the system only) to set the clock function.
- ⑭ **iR sensor**
- infrared sensor for remote control.
- ⑮ **OPEN-CLOSE**
- to open or close the disc tray.
- ⑯ **MODE**
- to shuffle and repeat a track/disc.
- ⑰ **◀ / ▶**
- to select a desired track.
- ⑱ **DSC (Digital Sound Control)**
- to select the desired sound effect : OPTIMAL/ ROCK/ JAZZ/ POP.
- ⑲ **IS/DBB (Incredible Surround/Dynamic Bass Boost)**
- to create a super-enhanced stereo effect.
  - to enhance the bass.
- ⑳ **MUTE**
- interrupts and resumes sound reproduction.
- ㉑ **TIMER**
- to activate/deactivate the timer function.
- ㉒ **SLEEP**
- to activate/deactivate or set the sleep timer.
- ㉓ **⏻**
- to switch the system to standby mode.

#### Notes for remote control:

- First select the source you wish to control by pressing one of the source select keys on the remote control (for example CD, TUNER).
- Then select the desired function (for example ▶, ◀, ▶).




## Basic Functions





### IMPORTANT!

Before you operate the system, complete the preparation procedures.

### Switching the system on

- Press **STANDBY ON**  or **SOURCE**.  
→ The system will switch to the last selected source.
- Press **CD**, **TUNER**, **TAPE** or **AUX** on the remote control.  
→ The system will switch to the selected source.

### Switching the system to standby mode

- Press **STANDBY ON**  on the system or remote control.
- If in recording mode, press  first.  
→ The volume level, interactive sound settings, last selected source and tuner presets will be retained in the player's memory.

### Power-saving automatic standby

As a power-saving feature, the system will automatically switch to Standby mode if you do not press any buttons within 15 minutes after a disc or tape has stopped playing.

### Volume control

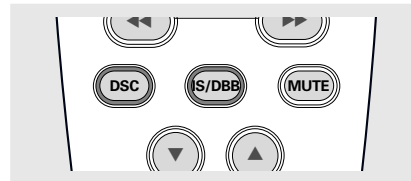
Press **VOLUME + / -** to increase or decrease the volume level.

→ Display shows the volume level "VOLUME" and a number from 0-32.

### 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



- Press **DSC** repeatedly to select the desired sound effect : **OPTIMAL**, **ROCK**, **JAZZ** or **POP**.
- Press **IS/DBB** to switch on or off the surround sound effect or bass enhancement.  
→ The sequences are as follows :  
INCR.SURR. → DBB → DBB+INCR.SURR.  
→ OFF  
→ If the DBB is activated, **DBB** is shown.  
→ If the IS is activated, **INCR. SURR** is shown.

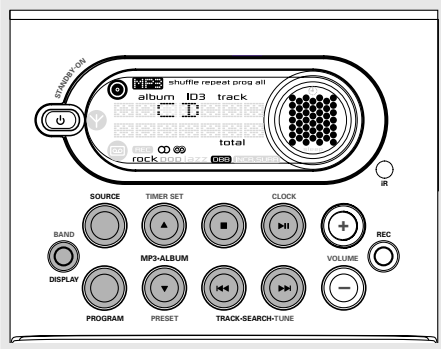
### Note:

– The effect of **INCREDIBLE SURROUND** may vary with different types of music.



## CD/MP3-CD Operations

English



### To interrupt playback

- Press **▶||**  
→ The current track time flashes.
- To resume playback, press **▶||** again.

### To stop playback

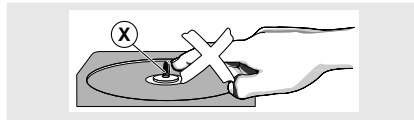
- Press **■**.

#### Notes:

- Disc play will also stop when you select another source or the disc has reached the end.
- For MP3 disc, the disc reading time may exceed 10 seconds due to the large number of songs compiled into one disc.

### IMPORTANT!

The lens of the CD player should never be touched.



### Text display

#### In CD mode

- Press **DISPLAY** repeatedly to see the following information.
  - Track number and elapsed play time of current track.
  - Remaining play time of current track.
  - Total number of tracks played and total played-back time.
  - Total remaining number of tracks and total remaining play time.

#### In MP3-CD mode

- Press **DISPLAY** repeatedly to select four display modes: Number, Track, Album and ID3.
  - Number** → Album number, track number and elapsed play time.
  - Track** → Track name and elapsed play time.
  - Album** → Album name and elapsed play time.
  - ID-3** → ID-3 tag scrolls once and elapsed play time.

### Discs for playback

This system is able to play :

- All pre-recorded audio CDs
- All finalised audio CDR and audio CDRW discs
- MP3-CDs (CD-ROMs with MP3 tracks)
- CD-ROM, CD-I, CDV, VCD, DVD or computer CDs, however, are not possible.

### Playing a disc

- 1 Select **CD** source.
- 2 Press **OPEN•CLOSE ▲** on the top of the system to open the CD compartment.  
→ "CD OPEN" is displayed.
- 3 Insert a disc with the printed side facing up and press **OPEN•CLOSE ▲** to close the CD door.  
→ "READING" is displayed as the CD player scans the contents of a disc, and then the total number of tracks and playing time are shown.
- 4 Press **▶||** to start playback.

### Selecting a different track

- Press **◀◀** or **▶▶** (**◀** or **▶**) repeatedly until the desired track number appears in the display.
- If playback is stopped, press **▶||** to start playback.



## CD/MP3-CD Operations

### Finding a passage within a track

- 1 Press and hold down on **⏮** or **⏭** (**⏮** or **⏭**).  
→ The disc is played at high speed and low volume.
- 2 When you recognize the passage you want, release **⏮** or **⏭** (**⏮** or **⏭**).  
→ Normal playback continues.

**Note:**

– During a disc programme or if **REPEAT/SHUFFLE** mode active, searching is only possible within the same track.

### Selecting a desired album/track (MP3 disc only)

**To select a desired album**

- Press **▼** or **▲** repeatedly.

**To select a desired track**

- Press **⏮** or **⏭** (**⏮** or **⏭**) repeatedly.

### Different play modes: SHUFFLE and REPEAT

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

- 1 Press **MODE** on the remote control to select :  
→ **shuffle** – tracks of the entire disc/ programme are played in random order.  
→ **shuffle repeat all** – to repeat the entire disc/ programme continuously in random order.  
→ **repeat all** – to repeat the entire disc/ programme.  
→ **repeat** – to repeat the current track.
  - 2 To return to normal playback, press **MODE** until the various **SHUFFLE/ REPEAT** modes are no longer displayed.
- You can also press **■** to cancel your play mode.

**Note:**

– If **Shuffle** is activated on a **MP3-CD**, all titles stored in the disc will be played in random order.

### Programming the disc tracks

Programming tracks is possible when playback is stopped. Up to 20 tracks can be stored in the memory in any order.

- 1 Press **PROGRAM** to enter the programming mode.  
→ A track number is shown and **prog** flashes.
- 2 Press **⏮** or **⏭** (**⏮** or **⏭**) repeatedly to select your desired track number.
- For **MP3 disc**, press **▼** / **▲** and **⏮** / **⏭** (**⏮** or **⏭**) to select the desired album and track for programming.
- 3 Press **PROGRAM** to confirm the track number to be stored.  
→ The number of tracks programmed and total playing time of the programme is shown briefly, then the selected track and **"PROG"**.  
→ For **MP3 disc**, total playing time will not be shown.
- 4 Repeat steps **2-3** to select and store all desired tracks.  
→ **"MEMORY FULL"** is displayed if you attempt to programme more than 20 tracks.
- 5 To start playback of your disc programme, press **▶ II**.

**Note:**

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

### Reviewing the programme

In stop mode, press and hold **PROGRAM** until the display shows all your stored track numbers in sequence.

### Erasing the programme

- Press **■** once when playback is stopped or twice during playback.  
→ **prog** disappears and **"CLEAR"** is displayed.

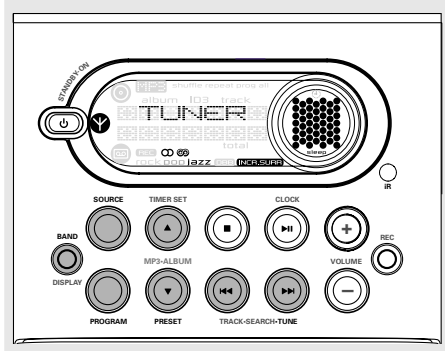
**Note:**

– The programme will be erased when the system is disconnected from the power supply or when the disc tray is opened.



## Radio Reception

English



### Tuning to radio stations

- 1 Select **TUNER** source.  
→ "TUNER" is displayed briefly.
  - 2 Press **BAND** to select the desired waveband : FM or MW.
  - 3 Press down on **◀◀** or **▶▶** (**◀◀** or **▶▶**) and release button.  
→ The display will show "SEARCH" until a radio station with sufficient signal strength is found.  
→ If a FM station is received in stereo, **∞** is shown.
  - 4 Repeat step 3 if necessary until you find the desired station.
- To tune to a weak station, press **◀◀** or **▶▶** (**◀◀** or **▶▶**) briefly and repeatedly until you have found optimal reception.

### Programming radio stations

You can store up to a total of 40 radio stations in the memory.

#### Automatic programming

Automatic programming will start with a chosen preset number. From this preset number upwards, former programmed radio stations will be overridden. The system will only programme stations which are not in the memory already.

- 1 Press **▼** or **▲** to select the preset number where programming should start.

#### Note:

– If no preset number is selected, default is preset (1) and all your presets will be overridden.

- 2 Press **PROGRAM** for more than two seconds to activate programming.  
→ "AUTO" is displayed and available stations are programmed in order of waveband reception strength: FM followed by MW. The last preset automatically stored will then be played.

#### Manual programming

- 1 Tune to your desired station (refer to "Tuning to radio stations").
  - 2 Press **PROGRAM** to activate programming.  
→ **prog** flashes in the display.
  - 3 Press **▼** or **▲** to allocate a number from 1 to 40 to this station.
  - 4 Press **PROGRAM** again to confirm the setting.  
→ **prog** disappears, the preset number and the frequency of the preset station are shown.
  - 5 Repeat the above four steps to store other stations.
- You can override a preset station by storing another frequency in its place.

#### Tuning to preset radio stations

- Press **▼** or **▲** until the desired preset station is displayed.

#### Changing tuning grid (some versions only)

In North and South America the frequency step between adjacent channels in the AM and FM band are 10 KHz and 100 KHz respectively. In the rest of the world this step is 9 KHz and 50 KHz. Usually the frequency step has been preset in the factory for your area if not:

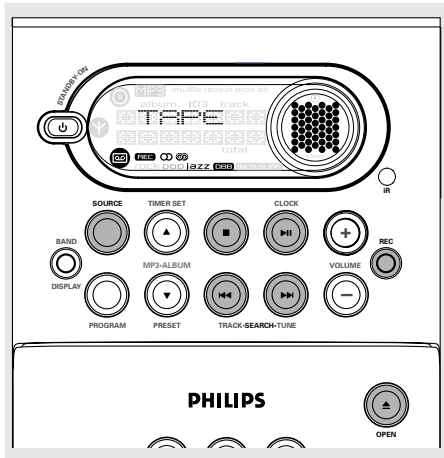
- 1 Select **TUNER** source.
- 2 Press **■** on the system for at least five seconds.  
→ The display shows either "GRID 9" or "GRID 10".

#### Note:

– All preset stations will be lost and need to be reprogrammed.



## Tape Operation / Recording



### Tape playback

- 1 Select **TAPE** source.  
→ The display shows "TAPE" briefly.
- 2 Press **OPEN** to open the tape door.
- 3 Insert a recorded tape and close the tape door:
  - Load the tape with the open side downward and the full spool to the left.
- 4 Press **▶||** to start playback.

#### To stop playback

- Press .

#### To reset the tape counter display

- In stop mode, press **once**.

### Rewinding / Fast forwarding

- 1 Stop playback, press or ( or ).  
→ The tape will stop automatically at the end of rewinding or fast forwarding.  
→ During fast winding, you can monitor the tape message with the tape counter.
- 2 Press to stop rewinding or fast forwarding.

#### Note:

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

### General information on recording

- For recording, use only NORMAL (IEC type I) tapes on which the tabs have not yet been broken. This deck is not suited for recording on METAL (IEC IV) type tapes.
- The best recording level is set automatically. Altering the VOLUME, INCREDIBLE SURROUND or DBB will not affect the recording in progress.
- At the very beginning and end of the tape, no recording will take place during the 7 seconds when the leader tape passes the recorder heads.
- To protect a tape from accidental erasure, have the tape in front of you and break out the left tab. Recording on this side is no longer possible. If, however, you wish to record over this side again, cover the tabs with a piece of adhesive tape.

#### IMPORTANT!

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



## Tape Operation / Recording

### Preparation for recording

- 1 Select **TAPE** source.
- 2 Load a recordable tape into tape deck with full spool to the left.
- 3 Prepare the source to be recorded.  
**CD** – load the disc.  
**TUNER** – tune to the desired radio station.  
**AUX** – connect external equipment.

#### When recording is in progress

→ **REC** starts flashing.

- To stop recording, press ■.
- It is not possible to listen to another source.
- It is not possible to activate the timer function.

### Synchro start CD recording

- 1 Select **CD** source.
  - Press ◀◀ or ▶▶ (◀ or ▶) to select the desired track to start recording.
  - You can programme the tracks in the order you want them to be recorded (refer to "CD/MP3-CD Operations - Programming the disc tracks").
- 2 Press **REC** to start recording.
 

→ Playing of the CD programme starts automatically from the beginning of the CD after 7 seconds. It is not necessary to start the CD player separately.

### One touch recording

- 1 Select **CD**, **TUNER** or **AUX** source.
- 2 If necessary, start playback of the selected source.
- 3 Press **REC** to start recording.

### Recording timer

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

- 1 Select the preset radio station to record from (refer to "Radio Reception - Tuning to preset radio stations").
- 2 In standby mode, press **TIMER SET** for more than two seconds.  
→ ⌚ flashes and a source is displayed.
- 3 Press **SOURCE** repeatedly until "RECTUN" source is displayed.
- 4 Press **TIMER SET** to confirm the source.  
→ "SET ON TIME" is displayed, ⌚ and the clock digits for the hours flash.
- 5 Press **VOLUME + / -** to set the hours.
- 6 Press **TIMER SET** again.  
→ The clock digits for the minutes flash.
- 7 Press **VOLUME + / -** to set the minutes.
- 8 Press **TIMER SET** to confirm the recording start time.  
→ "SET OFF TIME" is displayed, ⌚ and the clock digits for the hours flash.
- 9 Repeat steps 5-7 to set the finish time.
- 10 Press **TIMER SET** to confirm the timer settings.  
→ ⌚ is shown and the recording timer is now set.

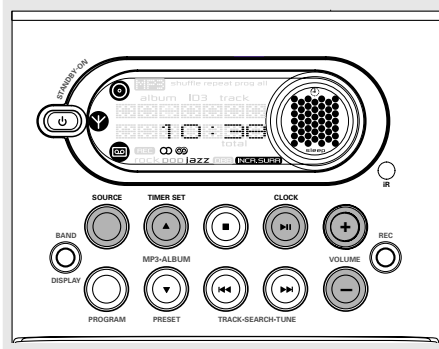
#### Note:

– The recording timer will not be activated if the system is in tape play mode.





## Clock/Timer



### Clock setting

- 1 In standby mode, press and hold **CLOCK**.  
→ The clock digits for the hours flash.
- 2 Press **VOLUME + / -** to set the hours.
- 3 Press **CLOCK** again.  
→ The clock digits for the minutes flash.
- 4 Press **VOLUME + / -** to set the minutes.
- 5 Press **CLOCK** to confirm the time.

### Timer setting

- The system can be used as an alarm clock, whereby the CD, TUNER or TAPE is switched on at a set time. The clock time needs to be set first before the timer can be used.
  - You can also use it to record a favourite tuner programme at a set period (refer to "Recording timer")
  - During setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.
- 1 In standby mode, press **TIMER SET** for more than two seconds.
  - 2 Press **SOURCE** repeatedly (or **CD, TUNER, TAPE** on the remote control) to select the sound source.

- 3 Press **TIMER SET** to confirm your desired mode.  
→ The selected source is shown. Display sequence scrolls "SET ON TIME" and flashes. The clock digits for the hours flash.
- 4 Press **VOLUME + / -** to set the hours.
- 5 Press **TIMER SET** again.  
→ The clock digits for the minutes flash.
- 6 Press **VOLUME + / -** to set the minutes.
- 7 Press **TIMER SET** to confirm the time.  
→ The timer is now set and activated.

### Activating and deactivating timer

- In standby or during playback, press **TIMER ONCE** on the remote control.  
→ Display shows if activated, and disappears if deactivated.

### Sleep timer setting

The sleep timer enables the system to switch off by itself after a set period of time. The clock time needs to be set first before the sleep timer can be used.

- 1 Press **SLEEP** on the remote control repeatedly to select a preset time.  
→ The selections are as follows (time in minutes):  
**60 → 45 → 30 → 15 → OFF → 60 ...**  
→ "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.  
→ Once SLEEP is activated, "SLEEP ON" scrolls across the display at repeated intervals.

### To deactivate the sleep timer

- Press **SLEEP** repeatedly until "OFF" is displayed, or press the **STANDBY ON** button.





## Specifications

### AMPLIFIER

Output power ..... 2 x 10 W RMS  
 ..... 400 W PMPO  
 Signal-to-noise ratio .....  $\geq 65$  dBA (IEC)  
 Frequency response ..... 40 – 20000 Hz,  $\pm 3$  dB  
 Input sensitivity AUX ..... 0.5 V (max. 2 V)  
 Impedance loudspeakers ..... 8  $\Omega$   
 Impedance headphones ..... 32  $\Omega$  -1000  $\Omega$

### CD PLAYER

Number of programmable tracks ..... 20  
 Frequency range ..... 20 – 20000 Hz  
 Signal-to-noise ratio ..... 75 dBA  
 Channel separation .....  $\geq 60$  dB (1 kHz)  
 Total harmonic distortion .....  $< 0.003\%$   
 MPEG 1 Layer 3 (MP3-CD) ..... MPEG AUDIO  
 MP3-CD bit rate ..... 32-256 kbps  
 (128 kbps advised)  
 Sampling frequencies ..... 32, 44.1, 48 kHz

### TUNER

FM wave range ..... 87.5 – 108 MHz  
 MW wave range (9 kHz) ..... 531 – 1602 kHz  
 MW wave range (10 kHz) ..... 530 – 1700 kHz  
 Tuning grid ..... 9/10 kHz  
 Sensitivity at 75  $\Omega$   
 – mono, 26 dB signal-to-noise ratio ..... 2.8  $\mu$ V  
 – stereo, 46 dB signal-to-noise ratio ..... 61.4  $\mu$ V  
 Selectivity .....  $\geq 28$  dB  
 Total harmonic distortion .....  $\leq 5\%$   
 Frequency response ..... 63 – 12500 Hz ( $\pm 3$  dB)  
 Signal-to-noise-ratio .....  $\geq 50$  dBA

### TAPE DECK

Frequency response  
 Normal tape (type I) ..... 80 – 12500 Hz (8 dB)  
 Signal-to-noise ratio  
 Normal tape (type I) ..... 50 dBA  
 Wow and flutter .....  $\leq 0.4\%$  DIN

### SPEAKERS

2-way Bass reflex system  
 Dimensions (w x h x d) .. 130 x 220 x 215 (mm)

### GENERAL INFORMATION

AC Power  
 For Version /21-/21M ..... 110–127 / 220–240 V;  
 50–60 Hz Switchable  
 For Version /30 ..... 230 – 240 V; 50 Hz  
 Dimensions (w x h x d) .. 140 x 220 x 250 (mm)  
 Weight (with/without speakers)  
 ..... approx. 6.3 / 3.3 kg  
 Standby power consumption .....  $< 3$  W

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



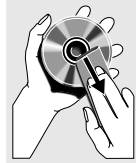
## Maintenance

### Cleaning the Cabinet

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

### Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.



### Cleaning the disc lens

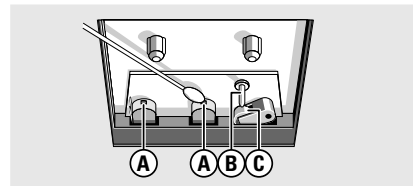
- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

### Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads (A), the capstan(s) (B), and pressure roller(s) (C) after every 50 hours of tape operation.

#### Caution: Do not rotate the heads during cleaning.

- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.



### Demagnetizing the heads

- Use a demagnetizing tape available at your dealer.

## Troubleshooting

### WARNING

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

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

Problem	Solution
<b>CD OPERATION</b>	
"NO DISC" is displayed.	<ul style="list-style-type: none"> <li>- Insert a disc.</li> <li>- Check if the disc is inserted upside down.</li> <li>- Wait until the moisture condensation at the lens has cleared.</li> <li>- Replace or clean the disc, see "Maintenance".</li> <li>- Use a finalised CD-RW or CD-R.</li> </ul>



## 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 HiFi System and your TV or VCR.

### TAPE OPERATION / RECORDING

**Recording or playback cannot be made.**

- Clean deck parts, see "Maintenance".
- Use only normal (IEC I) tape for recording.

**"CHECK TAPE" is displayed.**

- 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.
- Disconnect the headphones.
- Check that the speakers are connected correctly.
- Check if the stripped speaker wire is clamped.
- Make sure the MP3-CD was recorded within 32-256 kbps bit rate with sampling frequencies at 48 kHz, 44.1 kHz or 32 kHz.

**The left and right sound outputs are reversed.**

- Check the speaker connections and location.

**The remote control does not function properly.**

- Select the source (CD 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 toward IR sensor on the front of the system.

**The timer is not working.**

- Set the clock correctly.
- Press TIMER to switch on the timer.
- If a recording is in progress, stop the recording.

**The Clock/Timer setting is erased.**

- Power has been interrupted or the power cord has been disconnected. Reset the clock/timer.