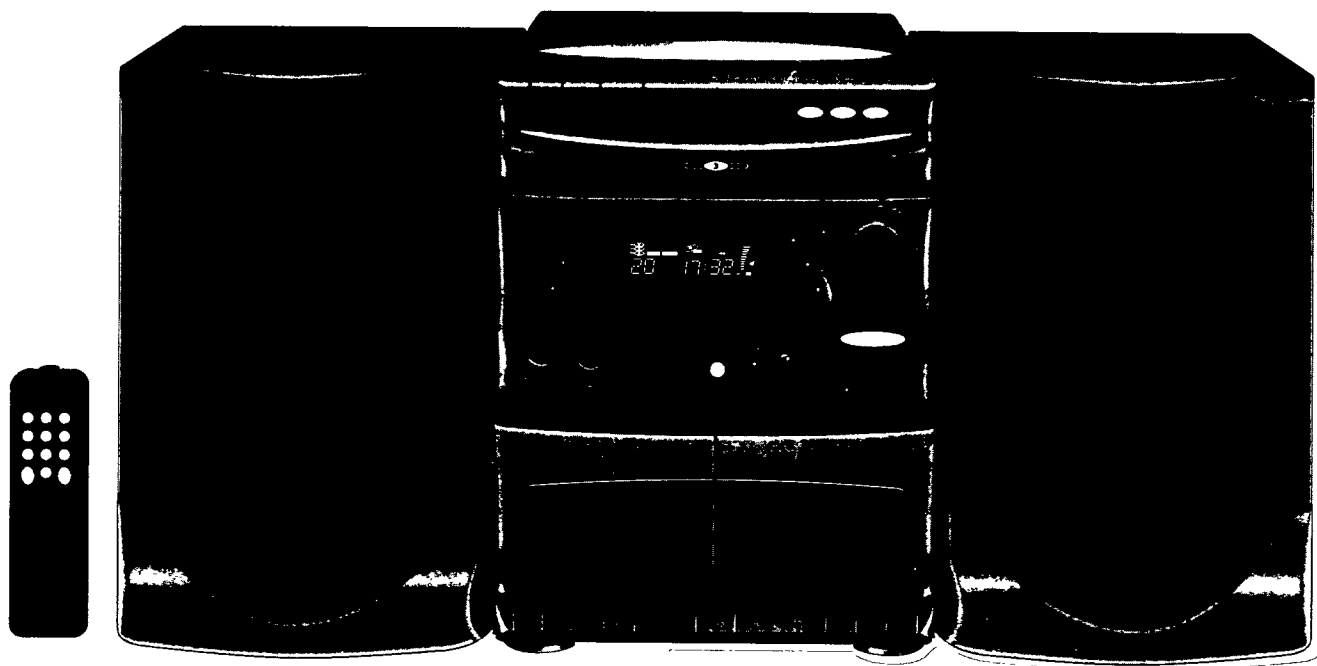


PHILIPS

FW 352C Mini HiFi System



Instructions for use
Mode d'emploi
Instrucciones de manejo
使用説明書



PHILIPS

GUARANTEE AND SERVICE FOR NEW ZEALAND

Thank-you for purchasing this quality Philips product. The document you are now reading is your guarantee card.

Guarantee

Philips New Zealand Ltd guarantees this product against defective components and faulty workmanship for a period of 12 months. Any defect in materials or workmanship occurring within 12 months from the date of purchase subject to the following conditions will be rectified free of charge by the retailer from whom this product was purchased.

Conditions.

1. The product must have been purchased in New Zealand, and this guarantee card completed at time of purchase (this is your proof of the date of purchase).
2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
3. The guarantee does not cover failures caused by misuse, neglect, normal wear and tear, accidental breakage, use on the incorrect voltage, use contrary to operating instructions, or unauthorised modification to the product or repair by an unauthorised technician.
4. Reasonable evidence (in the form of a sales docket or completed guarantee card) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
5. In the event of a failure, Philips shall be under no liability for any injury, or any loss or damage caused to property or products other than the product under guarantee.

This guarantee does not prejudice your rights under common law and statute, and is in addition to the normal responsibilities of the retailer and Philips.

How to claim.

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product.

However, should the retailer not be able to conclude the matter satisfactorily, or if you have other difficulties claiming under this guarantee, please contact

**The Guarantee Controller,
Philips New Zealand Ltd.**

✉ **P.O. Box 41.021**

Auckland

☎ **(09) 84 94 160**

fax ☎ **(09) 84 97 858**

GUARANTEE AND SERVICE VALID FOR AUSTRALIA

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies, which, under the Trade Practices Act or other Commonwealth or State law, the purchaser or owner has in respect of the product.

The Philips product carries the following warranties:

C-series HiFi-systems: 12 months. Compact Disc Players: 12 months. Home Audio Systems: 6 months. Clock radios, portable radios, cassette recorders, cassette players and radio recorders: 90 days.

Any defect in materials or workmanship occurring within the specified period from the date of delivery, will be rectified free of charge by the retailer from whom this product was purchased.

Note: Please retain your purchase docket to assist prompt service.

Conditions of this warranty

1. All claims for warranty service must be made to the retailer from whom this product was purchased. All transport charges incurred in connection with warranty service or replacement will be paid by the purchaser.
2. These warranties do not cover batteries and extend only to defects in materials or workmanship occurring under normal use of the product where operated in accordance with our instructions.

**Philips Consumer Products Division,
Technology Park
Figtree Drive, Australia Centre
Homebush 2140,
New South Wales**

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GARANTIA PARA MEXICO

NOM

Mexico

NOM

Este aparato está fabricado con materiales de alta calidad y ha sido cuidadosamente verificado. Philips, por lo tanto, da a usted una garantía de 12 meses a partir de su fecha de compra.

La garantía ampara la reposición de las piezas defectuosas debidas a fallas en su montaje o en los materiales, incluyendo la mano de obra necesaria para su reemplazo en nuestras Sucursales o talleres autorizados.

En caso de fallas en su aparato le rogamos se sirva poner en contacto con su distribuidor.

Esta garantía no cubrirá las averías que resulten como consecuencia de una instalación incorrecta del aparato, manifiesto maltrato o uso inadecuado del mismo.

Philips se obliga a reparar y devolver a usted su aparato en un plazo no mayor de 30 días hábiles contados a partir de la fecha de haber ingresado su aparato a uno de nuestros talleres.

Para que esta garantía sea válida, es necesario que el certificado que figura en la parte posterior de este instructivo haya sido debidamente llenado en el momento de la compra del aparato.

En caso de extravío del certificado con la presentación de la factura o remisión de su aparato podrá hacer efectiva la garantía correspondiente.

Si usted tiene alguna duda o pregunta que no le pueda solucionar su distribuidor, por favor ponerse en contacto con

Oficinas Centrales de Servicio,

Av. Coyoacán No. 1051,

Col. del Valle,

03100 MÉXICO, D.F.

☎ 5-75-20-22 o 5-75-01-00

Es necesario que lea cuidadosamente su instructivo de manejo.



NOM

**CLASS 1
LASER PRODUCT**

General Information

- The typeplate is located at the rear of the set.
 - Recording is permissible if copyright or other rights of third parties are not infringed.
- 1 All unnecessary packaging material has been omitted. We have done our utmost to make the packaging easy to separate into three mono-materials:
 - cardboard (box)
 - expandable polystyrene (buffer)
 - polyethylene (bags, protective foam sheet).
 Please observe the local regulations regarding the disposal of these packaging materials.
 - 2 Your set consists of materials which can be recycled and reused if disassembled by a specialized company. Please follow local regulations on recycling your old set.
 - 3 Do not dispose dead batteries with your household waste. Dispose batteries according to local regulations.
 - 4 Note: Switching off the standby mode overnight (remove the AC power cord from the wall socket) will save energy.

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. The type plate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the unit yourself, as this will invalidate the warranty!
- 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 CD unit inside the system. Should this occur, the CD player will not operate normally. Leave the power on for about one hour with no disc in the unit until normal playback is possible.
- Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
- **To disconnect the system from the power supply completely, withdraw the AC power cord from the wall socket.**

Speakers

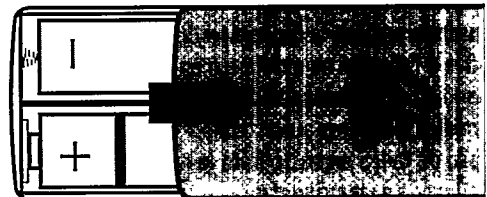


Accessories (Supplied)

- Remote control transmitter
- Batteries (2 xx AA size) for remote control transmitter
- AM loop antenna
- FM antenna wire
- AC power cord

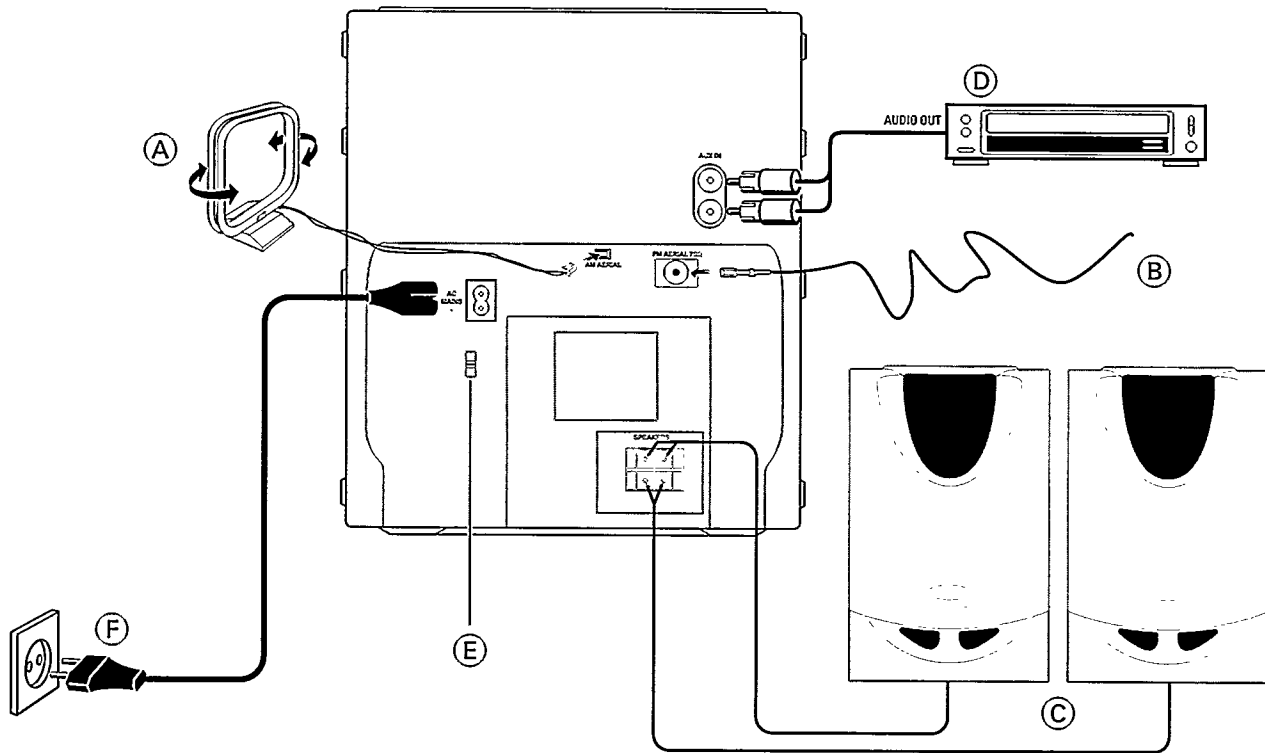
Inserting the batteries into the Remote Control

- Insert the batteries (Type R6 or AA) into the remote control transmitter as shown in the battery compartment.



- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement use type R6 or AA batteries.

Rear Connection



(A) AM Antenna Connection

Connect the supplied loop antenna to the AM AERIAL terminal. Adjust the position of the AM loop antenna for the best reception.

(B) FM Wire Antenna Connection

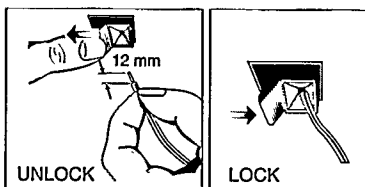
Connect the supplied FM wire antenna to the FM 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna

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

(C) Speaker Connections

- Connect the right speaker to terminal **R**, with the red wire to + and the black wire to -.
- Connect the left speaker to terminal **L**, with the red wire to + and the black wire to -.
- Clip the stripped portion of the speaker wire as shown.



(D) Connecting other equipment to your system

You can connect TV, Laser Disc or VCR audio left and right outputs to the AUX terminal at the rear of the system.

(E) Adjusting the Operating Voltage

(For specific versions only)

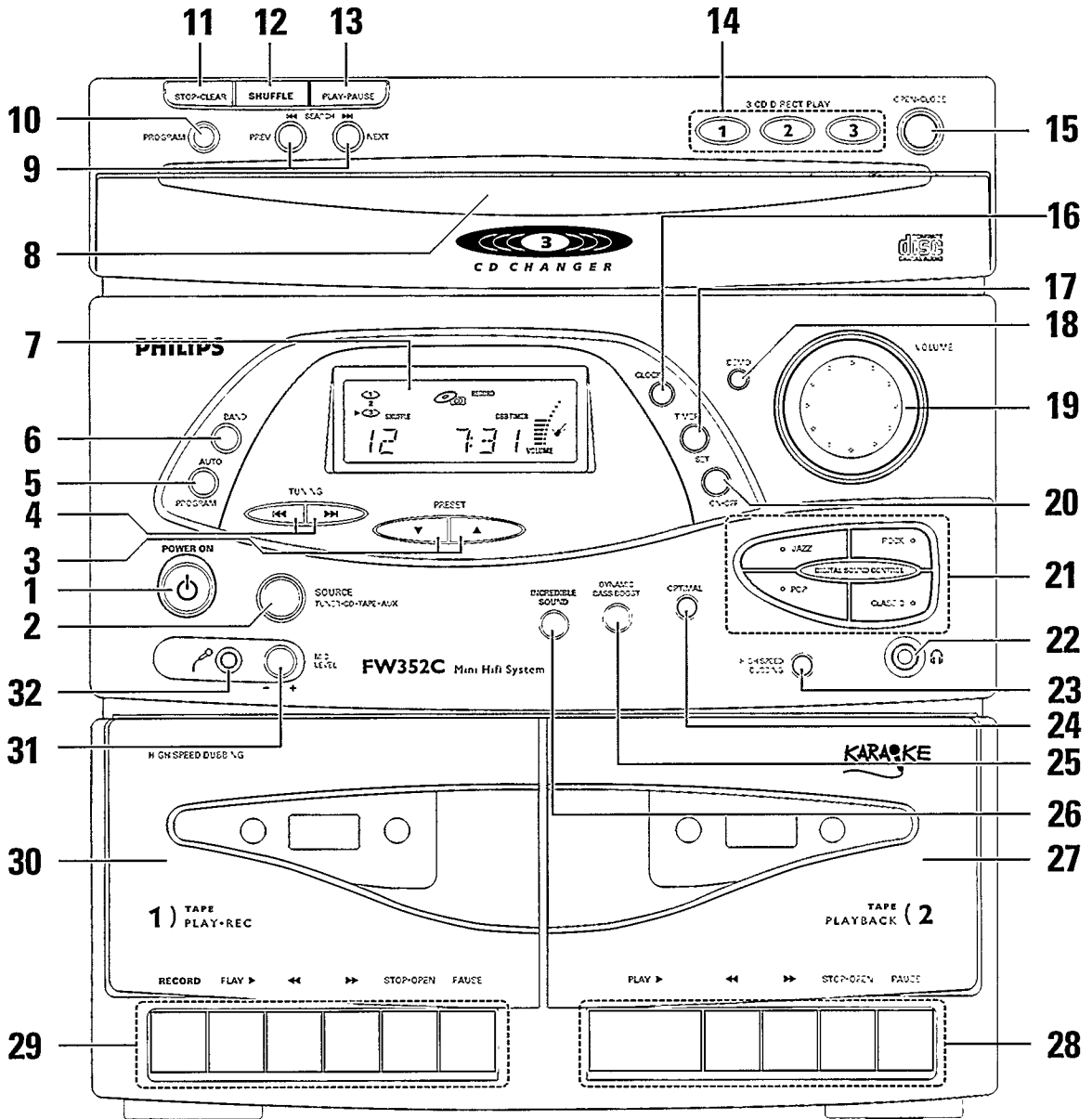
Before connecting the AC power cord to a wall outlet, make sure that the voltage selector at the rear of the system is set to the local power line voltage. If not, reset the selector before connecting to the wall outlet.

(F) AC Power Supply

After all other connections have been made, connect the AC power socket to the set and the AC power plug to the wall outlet.

Controls

English



1 POWER ON

– to switch the set on or to standby mode.

2 SOURCE

to select the following :

TUNER : to switch to Radio mode.

CD : to switch to CD mode.

TAPE : to switch to Tape mode.

AUX : to switch to AUX mode (for external sources, e.g. TV, Laser Disc or VCR sound).

3 PRESET ▲ or ▼

– to select a radio station in memory. Also use for clock and timer setting.

4 TUNING ◀◀ or ▶▶

– to tune to radio stations

◀◀ : lower frequencies.

▶▶ : higher frequencies.

Also use for clock and timer setting.

5 AUTO PROGRAM

– to program preset stations automatically or manually.

6 BAND

– to select the waveband : FM or MW.

7 DISPLAY

– to display the current setting of the set.

8 CD CAROUSEL TRAY

9 ◀◀ PREVIOUS / NEXT ▶▶

– to skip to the beginning of the current or previous/next track or to search backward/forward.

10 PROGRAM

– to program CD tracks

11 STOP•CLEAR

– to stop CD play or to clear a program.

12 SHUFFLE


– to play all the available discs and their tracks in random order.

13 PLAY•PAUSE

– to start or interrupt CD play.

14 3 CD DIRECT PLAY

– to select play for each CD tray.

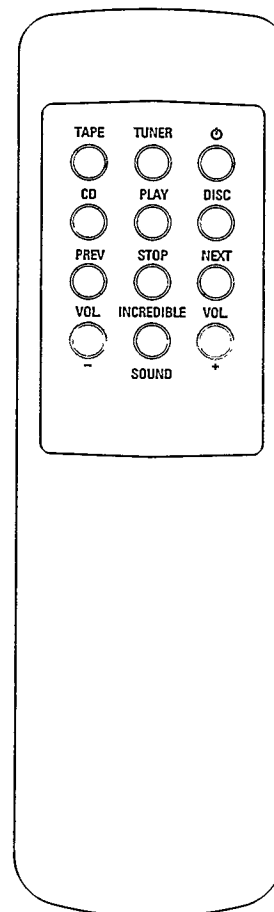
- 15 OPEN • CLOSE**
 - to open or close the CD carousel tray.
- 16 CLOCK**
 - to set the clock.
- 17 TIMER SET**
 - to set the timer.
- 18 DEMO**
 - to display the various features offered by the system.
- 19 VOLUME**
 - to adjust the volume level.
- 20 TIMER ON•OFF**
 - to switch the timer on or off.
- 21 DIGITAL SOUND CONTROL (DSC)**
 - to select the desired sound effect : JAZZ, ROCK, POP or CLASSIC.
- 22  HEADPHONES**
 - to connect headphones (3.5mm) jack.
- 23 HIGH SPEED DUBBING**
 - to dub from **TAPE DECK 2** to **TAPE DECK 1** at high speed.
- 24 OPTIMAL**
 - to select the sound setting that is tuned to the acoustics of the supplied speakers.
- 25 DYNAMIC BASS BOOST (DBB)**
 - to switch on bass boost to enhance bass response or to switch off bass boost.
- 26 INCREDIBLE SOUND**
 - to switch on or off the surround sound effect.
- 27 TAPE DECK 2**
- 28 TAPE 2 CASSETTE OPERATION**
 - **PLAY ▶** : to start playback.
 - **REW ◀◀** : to rewind the cassette.
 - **F.FWD ▶▶** : to fast forward the cassette.
 - **STOP•OPEN** : to stop playback or to open the cassette compartment.
 - **PAUSE** : to interrupt playback
- 29 TAPE 1 CASSETTE OPERATION**
 - **RECORD** : to start recording.
 - **PLAY ▶** : to start playback.
 - **REW ◀◀** : to rewind the cassette.
 - **F.FWD ▶▶** : to fast forward the cassette.
 - **STOP•OPEN** : to stop playback or to open the cassette compartment.
 - **PAUSE** : to interrupt playback or recording.
- 30 TAPE DECK 1**
- 31 MIC LEVEL**
 - to adjust the mixing level for karaoke or microphone recording.
- 32 MIC**
 - to connect microphone (3.5mm) jack.

Remote Control Functions

- First select the source you wish to control by pressing one of the source select keys on the remote control (eg. TUNER, CD or TAPE).
- Then select the desired function.

Note :

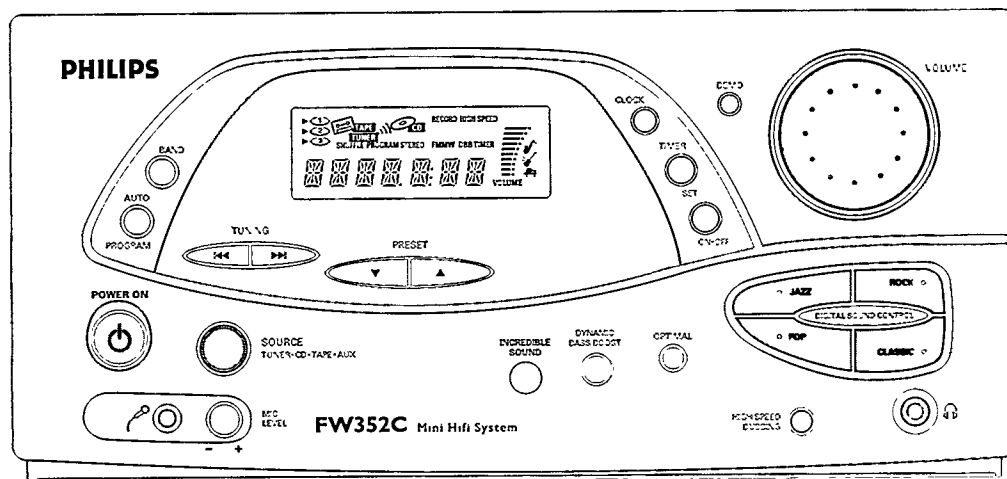
- Whenever a remote control button is pressed, the source icon on the set display will flicker. This indicates the remote control signal is received by the set.



- Power** to switch the unit to standby mode.
- TUNER** to select TUNER mode.
- TAPE** to select TAPE mode.
- CD** to select CD mode.
- PLAY** to start play in CD mode.
- DISC** to select the next disc.
- PREV/ NEXT**
 - for TUNER to select a lower/higher tuner preset station.
 - for CD to select previous/next CD track.
- STOP** to stop play in CD mode.
- VOLUME +/-** to adjust the volume level.
- INCREDIBLE SOUND** ... to switch on or off the surround sound effect.

Operating the System

English



Important :

Before you begin operating the system, complete the preparation procedures. The set is in the standby mode when the AC power plug is connected to the wall socket and "0:00" flashes on the display.

Switching the system ON

- Press **POWER ON** or **SOURCE** (or **CD**, **TUNER** or **TAPE** on the remote control).

Switching the system to standby mode

- Press **POWER ON** again (or ⏻ on the remote control).

Selecting the Sound Source

- Press **SOURCE** to select either **TUNER**, **CD**, **TAPE** or **AUX** (or **CD**, **TUNER** or **TAPE** on the remote control).
→ The display indicates the selected sound source.

You can also select the sound source directly by selecting the respective **PLAY** button or 3 **CD DIRECT PLAY** buttons for CD mode or the **PRESET**, **BAND** or **TUNING** button for TUNER mode.

Note :

For **AUX** source, ensure that you have connected the audio left and right outputs of the external equipment (TV, VCR or Laser Disc player) to the **AUX IN** sockets at the rear of the set.

Volume Adjustment

Turn **VOLUME** right or left (or press **VOL. +** or **-** on the remote control) to increase or decrease the sound level.

For Personal Listening

Connect the headphones jack to the Ⓜ socket (3.5 mm) at the front of the set. The speakers will be muted.

Digital Sound Control (DSC)

- To enjoy a special sound effect, press **JAZZ** (♫), **CLASSIC** (🎻), **ROCK** (🎸) or **POP** (🎵).

Optimal Sound

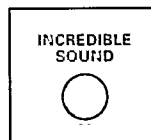
- Press **OPTIMAL** to hear the sound setting that is tuned to the acoustics of the supplied speakers.

Dynamic Bass Boost (DBB)

- Press **DBB** to enhance the bass response.
→ The **DBB** flag lights up.

Incredible Sound

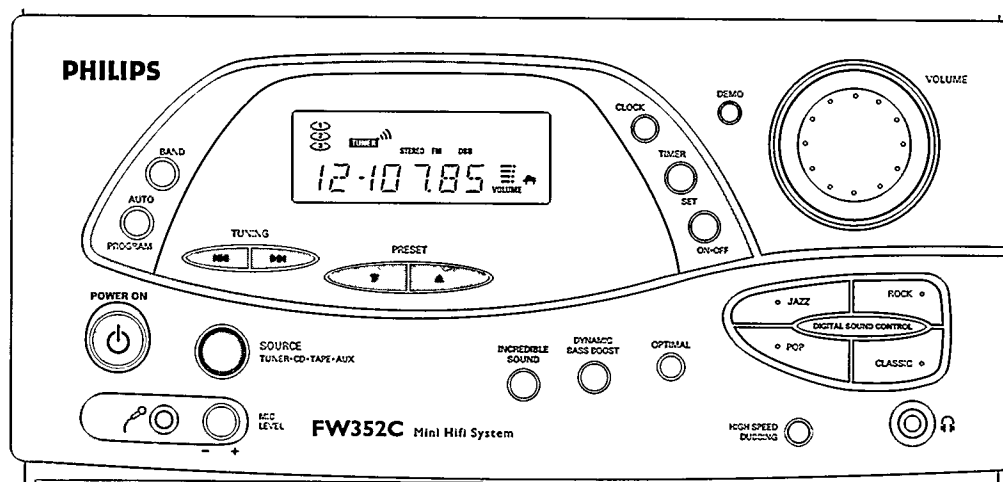
- In addition to all other sound settings, you can switch on or off the incredible surround sound feature by pressing **INCREDIBLE SOUND**.
→ This creates a phenomenal surround sound effect even if the speakers are positioned close to the system. The sound becomes "incredibly" spatial.
→ The **INCREDIBLE SOUND** button lights up.



Demo mode

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

- Press **DEMO** to switch on the demonstration.
→ The display will show "WELCOME TO THE AUDIO WORLD", then a demonstration of the various features will follow.
- Press **DEMO** again or **POWER ON** to stop the demonstration mode.



Tuning to radio stations

- 1 Press **SOURCE** to select **TUNER**.
- 2 Press **BAND** to select the desired waveband: FM or MW.
- 3 Press **TUNING** |◀| or |▶| for more than one second.
 - The display will show 'SEARCH' until a station with sufficient signal strength is found.
- Repeat this procedure until the desired station is reached.
- To tune to a weak station, briefly press **TUNING** |◀| or |▶| until the display shows the right frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 20 stations in the memory. When a preset station is selected, the preset number appears next to the frequency on the display.

Automatic programming

- 1 Press **BAND** to select the desired waveband: FM or MW.
- 2 Press **AUTO PROGRAM** for more than 1 second to start the automatic programming.
 - PROGRAM flashes and 'AUTO' is displayed.
 - Every available station will be stored automatically. The frequency and preset number will be displayed briefly.
 - It will stop searching when all the available stations are stored or the memory for 20 preset stations is used.
- You can cancel the automatic programming by pressing **AUTO PROGRAM**; **TUNING** |◀| or |▶| ; **PRESET** ▼ or ▲ ; or **BAND**.

Note:

If you want to maintain some old preset numbers, for example preset number 1 - 9, select preset 10 before starting automatic programming; now only the preset numbers 10 to 20 will be programmed.

Manual programming

- 1 Press **AUTO PROGRAM** for less than 1 second.
 - PROGRAM flashes on the display.
- 2 Press **BAND** to select the desired waveband: FM or MW.
- 3 Press **TUNING** |◀| or |▶| to tune to the desired frequency.
- 4 Press **PRESET** ▼ or ▲ to select a preset number.
- 5 Press **AUTO PROGRAM** again.
 - PROGRAM disappears, and the station is stored.
- Repeat the above procedure to store other preset stations.

Tuning to Preset Stations

- Press **PRESET** ▼ or ▲ (or **PREV** or **NEXT** on the remote control) to select the desired preset number.
 - The preset number, frequency and waveband appear on the display.

Changing the FM/MW tuning grid

For FM Band : change from 50kHz to 100kHz or vice versa
For MW Band : change from 9kHz to 10kHz or vice versa

Changing of tuning grid will erase all previously stored preset stations.

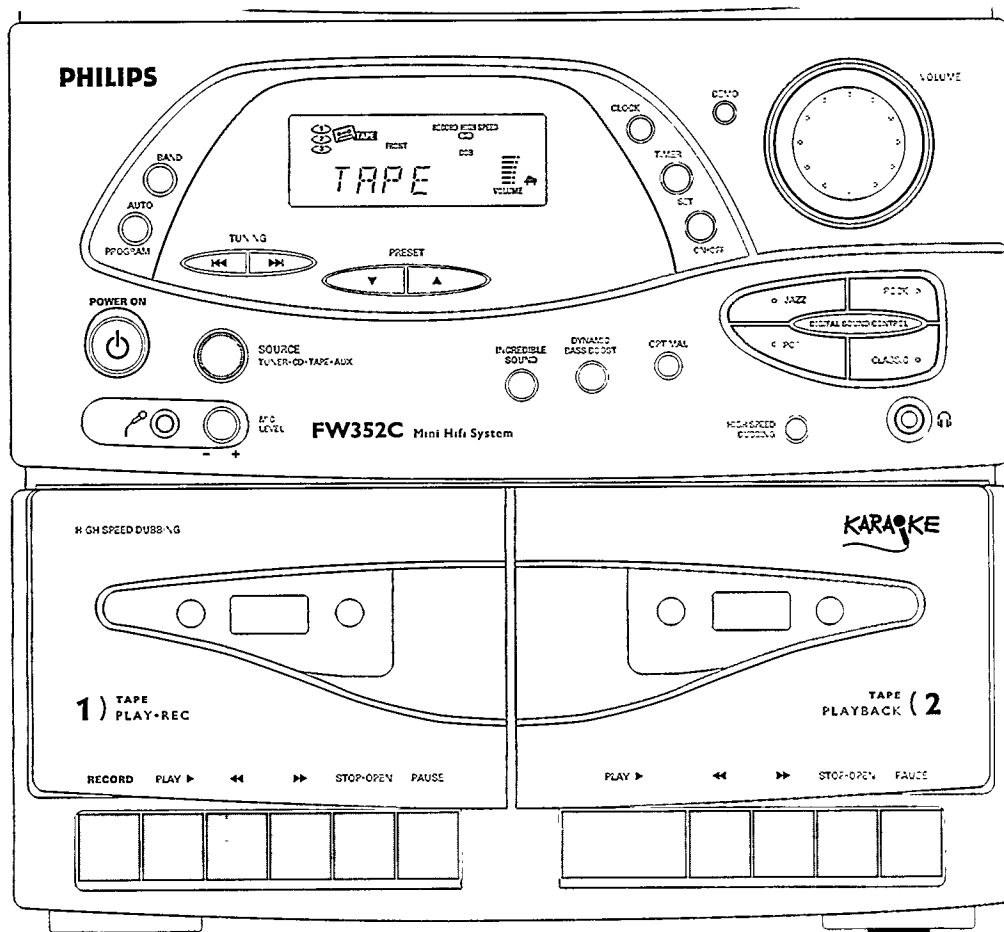
- 1 Switch the unit to standby mode and disconnect the unit from the AC power supply (pull out the AC power cord).
- 2 Keep **AUTO PROGRAM** and **TUNING** |▶| depressed, while re-connecting the system to the AC power supply again.
 - Display briefly shows "TUNER" and then followed "GRID 9" or "GRID 10".

Note:

GRID 9 indicates that the tuning grid is in step of 50kHz in FM band or 9kHz in MW band. GRID 10 indicates that the tuning grid is in step of 100kHz in FM band or 10kHz in MW band.

Cassette Deck

English



Loading a cassette

- Press **STOP•OPEN**.
- The cassette compartment door opens.
- Load the cassette with the open side downward and the full spool to the left.
- Close the cassette compartment door.

Tape Playback

- 1 Press **SOURCE** to select TAPE.
- 2 Load the cassette into a **CASSETTE DECK**.
- 3 Press **PLAY ►** to start playback.
- 4 Press **STOP•OPEN** to end playback.

Fast Forward/Rewinding

- 1 You can rewind or fast forward the tape by pressing **◀◀** or **▶▶** respectively.
- 2 Press **STOP•OPEN** to stop fast forwarding or rewinding.

Note :

It is possible to fast forward or rewind a cassette when the set is in another source mode (e.g. TUNER, CD or AUX mode).

Continuous playback of two cassettes

- 1 Press **SOURCE** to select TAPE.
- 2 Load the cassettes in **TAPE DECK 1** and **TAPE DECK 2**.
- 3 Press **PLAY ►** on **TAPE DECK 2**.
- 4 Press **PAUSE** on **TAPE DECK 1**.
- 5 Press **PLAY ►** on **TAPE DECK 1**.
→ Playback will begin with **TAPE DECK 2** and will continue with **TAPE DECK 1** when **TAPE DECK 2** ends.
- 6 Press **STOP•OPEN** if you want to stop playback before the end of the tape in **TAPE DECK 1** or **TAPE DECK 2**.

Recording (TAPE DECK 1)

- 1 Press **SOURCE** to select TUNER, CD or AUX.
- 2 Load a blank cassette into **TAPE DECK 1**.
- 3 Press **RECORD** on **TAPE DECK 1** to start recording.
→ The RECORD flag starts flashing.
- 4 Press **STOP•OPEN** on **TAPE DECK 1** to stop recording.

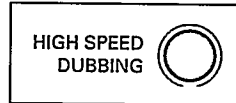
Note:

During recording, it is not possible to listen to another sound source.

Cassette Deck

Dubbing cassettes (from DECK 2 to DECK 1)

- 1 Load the pre-recorded cassette into **TAPE DECK 2** and a blank cassette into **TAPE DECK 1**.
 - Make sure that both cassettes have their full spools to the left.
- For high speed recording, press **HIGH SPEED DUBBING**.
 - HIGH SPEED appears on the display.
- 2 Press **PAUSE** on **TAPE DECK 1**.
- 3 Press **RECORD** on **TAPE DECK 1**.
 - RECORD appears on the display.
- 4 Press **PLAY** on **TAPE DECK 2**.
 - Recording will start automatically.
- 5 Press **STOP•OPEN** on **TAPE DECK 1** and **TAPE DECK 2** to stop dubbing.



Notes :

- At the end of side A, flip the cassettes to side B and repeat the procedure.
- Dubbing of cassettes is only possible in the TAPE mode. To ensure good dubbing, use tapes of the same length.
- During high speed dubbing operation in the Tape mode, the sound is reduced to a low volume.

General Information

- For recording, use only a cassette of IEC type I (normal cassette).
- The tape in the cassette is secured at both ends with leader tape. At the beginning and end of a cassette, nothing will be recorded for six to seven seconds.
- The recording level is set automatically, regardless of the position of VOLUME.
- Check and tighten slack tape with a pencil before use. Slack tape may get jammed or may burst in the mechanism.
- To prevent accidental recording, break out the tab on the left shoulder of the cassette side you want to protect. To re-record the cassette, cover each hole with cellophane tape.

Erase Prevention Tabs



- C-120 tape is extremely thin and may be easily deformed or damaged. It is not recommended for use in this unit.
- Store the cassettes at room temperature and do not put them too close to a magnetic field (for example, transformers, TVs or speakers).

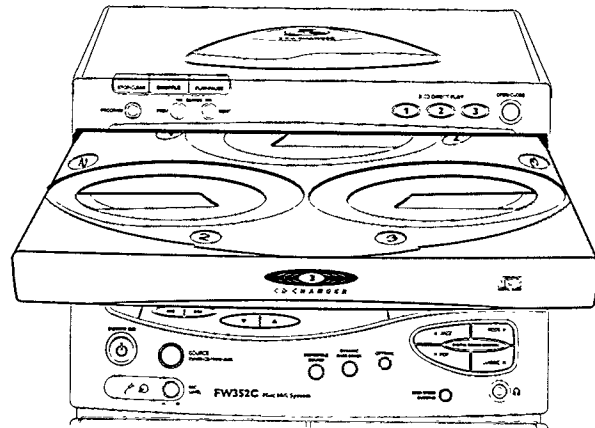
Compact Disc

Warning!

- 1) This set is designed for conventional CDs. Do not use any accessories like disc stabilizer rings or CD treatment sheets, etc, which may damage the CD mechanism.
- 2) Do not load more than one disc into each tray.
- 3) When the CD changer is loaded with CD(s), do not turn over or shake the unit as this may jam the changer mechanism.

You can load up to three discs in the CD changer for continuous play without interruption. In addition to the conventional 12-cm disc, 8-cm discs can also be used without an adaptor .

Loading the CD Changer



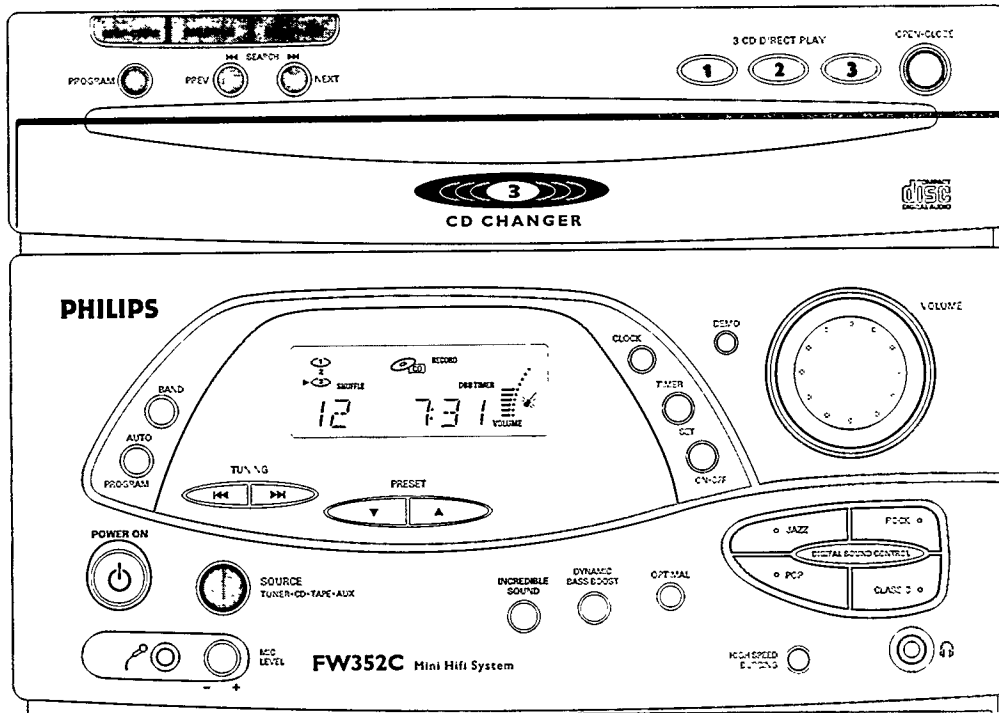
- 1 Press **SOURCE** to select CD.
- 2 Press **OPEN•CLOSE**.
 - The CD compartment slides out.
- 3 Load a disc with the **printed side up** in the right tray.
 - You can load another disc in the left tray.
 - To load the third disc, press the corresponding **3 CD DIRECT PLAY** button of the empty tray.
 - The CD changer carousel will rotate until the empty tray is at the right hand side and is ready for loading.
 - Playback will always start with the outer right disc tray.
- 4 Press **OPEN•CLOSE** to close the CD compartment.
 - The total number of tracks and playing time of the last selected disc appear on the display.

The following display indications will help you to know whether the disc trays are empty or loaded.

- 1 – indicates the disc tray is empty.
- ② – indicates the disc tray is loaded with a disc.
- ▶ ③ – indicates the current or selected disc tray.

Compact Disc

English



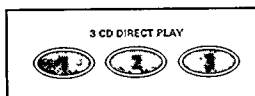
Playing a Disc

- 1 Press **PLAY•PAUSE** (or **PLAY** on the remote control) to start playback.
 - The disc tray, track number and elapsed playing time of the current track appear on the display.
 - To interrupt play, press **PLAY•PAUSE**.
 - The playing time flashes.
 - To resume play, press **PLAY•PAUSE** again (or **PLAY** on the remote control).
- 2 To stop play, press **STOP•CLEAR** (or **STOP** on the remote control).

Note :

All the available discs will play once and then stop. When the CD has stopped playing, the set will switch to the standby mode automatically after 15 minutes if no button is pressed.

When the CD tray is closed, you can also play a CD directly by pressing the **3 CD DIRECT PLAY (1 – 3)** buttons. The CD player will stop at the end of playback of the selected disc.



Selecting a desired track

Selecting a desired track at the stop mode

- 1 Press **◀◀ PREV** or **NEXT ▶▶** (**PREV** or **NEXT** on the remote control) until the desired track appears on the display.
- 2 Press **PLAY•PAUSE** (or **PLAY** on the remote control) to start playback.
 - The selected track number and elapsed playing time appear on the display.

Selecting a desired track during play mode

- 1 Press **◀◀ PREV** or **NEXT ▶▶** (**PREV** or **NEXT** on the remote control) until the desired track appears on the display.
 - The selected track number and elapsed playing time appear on the display.
 - If you press **◀◀ PREV** once it will skip to the beginning of the current track and play the track again.

Searching for a particular passage during play

- Press and hold **SEARCH ◀◀** or **▶▶** until the desired passage is located. During the search, the sound is played faster than normal at a reduced volume. Play returns to normal when **SEARCH ◀◀** or **▶▶** is released.

Shuffle

SHUFFLE – playing all the available discs and their tracks in random order. It can also be used during program mode.

To shuffle all the discs and tracks

- 1 Press **SHUFFLE**.
 - "SHUFFLE" flashes briefly on the display.
 - The SHUFFLE flag, the disc and the track selected at random appear on the display.
 - The discs and the tracks will now be played in random order until you press **STOP•CLEAR**.
- 2 Press **SHUFFLE** again to resume normal play.
 - The SHUFFLE flag disappears from the display.

Programming Tracks

Programming tracks of a loaded CD is possible in the stop mode of the CD. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL".

- 1 Load the desired discs in the disc trays.
- 2 Press **PROGRAM** to start programming.
 - The PROGRAM flag flashes on the display.
- 3 Press the desired disc button to select the disc.
- 4 Press **◀◀ PREV** or **NEXT ▶▶** to select the desired track.
- 5 Press **PROGRAM** to store the track.
 - Repeat steps 3 to 5 to store other discs and tracks.
- 6 Press **STOP•CLEAR** once to end programming mode.
 - The total number of tracks programmed and total playing time appear on the display.

Playing the program

- 1 Press **PLAY•PAUSE** to start program playback.
 - The track number and elapsed playing time of the current track appear on the display.
- 2 Press **STOP•CLEAR** to stop program playback.

Note :

If you press any of the 3 CD DIRECT PLAY buttons, the set will play the selected disc, the stored program will be ignored temporarily. The PROGRAM flag will also temporarily disappear from the display and then reappear when the playback for the selected disc ends.

Reviewing the program

Reviewing of program is only possible in the stop mode.

- Press **◀◀ PREV** or **NEXT ▶▶** repeatedly to review the programmed tracks.

Erasing the program (in the stop position)

- Press **STOP•CLEAR**.
 - "PROGRAM CLEARED" appears on the display.

Note :

The program is also erased when the set is switched off. If the CD carousel is opened, the tracks belonging to the outer two trays will be erased and "CLEARED" will flash on the display once.

CD Recording

During CD recording,

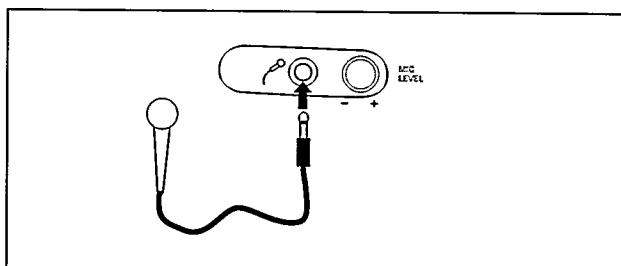
- it is not advisable to fast forward/rewind your cassette in TAPE DECK 2.
- it is not possible to listen to another sound source.

CD Recording

- 1 Load a blank cassette (full spool to the left) into **DECK 1**.
- 2 Press **SOURCE** to select CD.
- 3 Load a disc into the disc tray.

- 4 Press **◀◀ PREV** or **NEXT ▶▶** to select the desired track. If desired, you can program the tracks in the order you want them to be recorded (see Programming Tracks).
- 5 Press **RECORD** on cassette **TAPE DECK 1** to start recording.
 - The RECORD flag flashes on the display.
 - CD starts playing.
- 6 Press **STOP•CLEAR** on CD and **STOP•OPEN** on cassette **TAPE DECK 1** to stop recording.

Karaoke



Microphone mixing

- 1 Connect the microphone to the mic socket.
- 2 Press **SOURCE** to select CD, TUNER, TAPE or AUX.
- 3 Play the selected source.
- 4 Adjust the volume with **VOLUME** control.
- 5 Adjust the **MIC LEVEL** control to the mixing level that you want.
- 6 Start singing or talking through the microphone.

Note:

- To prevent acoustics feedback (for example, a loud howling sound), adjust the MIC LEVEL control to the minimum before you plug in the microphone.

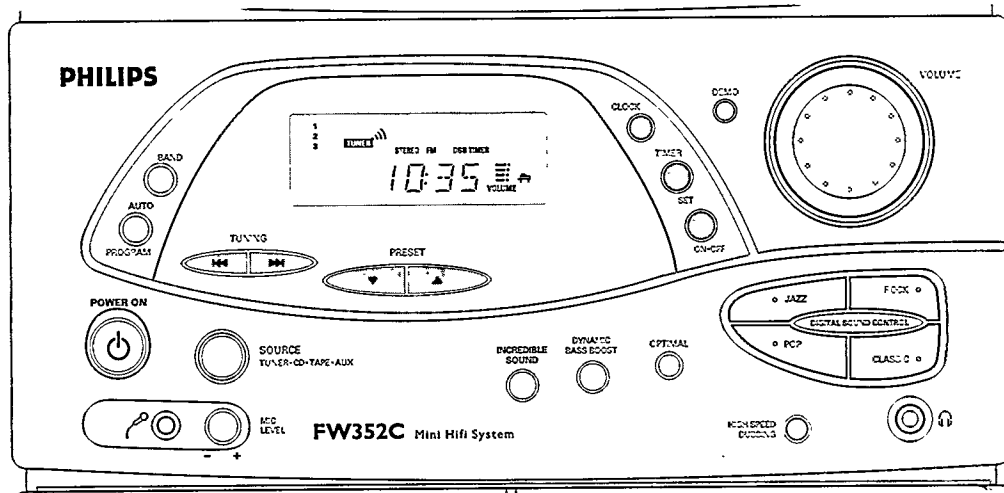
Recording the mixed sound

During microphone mixing, you can record the mixed sound on a cassette in DECK 1.

- 1 Load a blank cassette in **DECK 1**.
- 2 Press **RECORD**.

Note :

- If you do not intend to record via the microphone, unplug the microphone to avoid accidental mixing with other recording source.
- It is not possible to record the mixed sound through a microphone during cassette Dubbing mode.



Setting the clock

The clock will display in 24-hour mode, e.g. 00:00 or 23:59.

- 1 Press **CLOCK**.
→ "00:00" starts flashing.
- 2 Set the hour with **PRESET** ▼ or ▲.
- 3 Set the minute with **TUNING** |◀◀ or ▶▶|
- 4 Press **CLOCK** again to store the setting.
→ The clock starts running.

Note:

- When a power interruption occurs, the clock settings are erased, and "0:00" will flash on the display.

Setting the Timer

- The system can switch on to TUNER or CD mode automatically at a preset time. It can serve as an alarm to wake you up. After half an hour from the preset time, the system will return to the standby mode if no button is pressed.
- Before setting the timer, make sure the clock is set correctly.
- The timer works only once for each setting.
- **The volume of the timer will be at the last setting before the set is switched off.**

Timer Setting

- 1 Press **TIMER SET**.
→ The **TIMER** flag flashes.
- 2 Press **PRESET** ▲ to select the desired source.
→ The display will switch as follows:
TUNER → CD → TUNER .
- 3 Press **TIMER SET** to confirm your selection.
→ The display will show " ON 00:00 " and "00:00" flashes.
- 4 Press **PRESET** ▼ or ▲ to set the hour for the timer to start.
- 5 Press **TUNING** |◀◀ or ▶▶| to set the minutes for the timer to start.
- 6 Press **TIMER SET** to store the start time.
→ The **TIMER** is now set.
→ The **TIMER** flag remains lit.

To stop the **TIMER**

- Press **TIMER ON•OFF** on the set.
→ The **TIMER** is now off.

To start the **TIMER** again

- Press **TIMER ON•OFF** on the set.
→ The display will show the last set start time of the **TIMER** and its flag.
→ The **TIMER** flag remains lit.

Note:

1. If the source selected is TUNER, the last tuned frequency will be switched on.
2. If the source selected is CD, the first track of the last selected disc will be played. If the CD trays are empty, the TUNER source will be selected instead.

Maintenance

Specifications

English

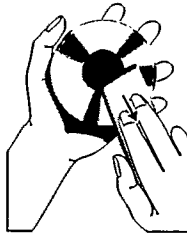
Maintenance

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

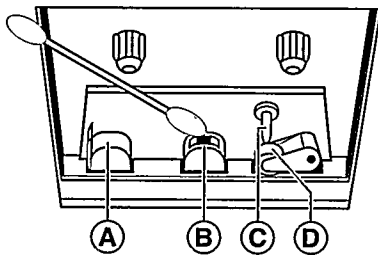
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for analog records.

Cleaning the Heads and the Tape Paths

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



- Use a cotton swab slightly moistened with cleaning fluid or alcohol.

Demagnetizing the heads

- Use a demagnetizing cassette available at your dealer.

Specifications

AMPLIFIER

Output power	2 x 15 W RMS
.....	280 W PMPO
Power band width	63 - 20000 Hz
Frequency response	63 - 20000 Hz
Signal-to-noise ratio	≥ 75 dBA
Stereo separation	≥ 48 dB (1 kHz)
Input sensitivity	
Aux	400 mV
Microphone (3.5mm)	2.5mV
Outputs	
Headphones (3.5mm)	32 Ω - 1000 Ω
Loudspeakers	≥ 3Ω

TUNER

FM wave range	87.5 - 108 MHz
MW wave range	
9 kHz Grid	531 - 1602 kHz
10 kHz Grid	530 - 1700 kHz
Sensitivity at 75 Ω, 26 dB S/N ratio, FM mono	6.9μV
46 dB signal-to-noise ratio, FM Stereo	154μV
FM Frequency response	63 - 12500 Hz (±3 dB)
Signal-to-noise ratio	≥ 50 dBA
Total Harmonic Distortion	< 3%

CD PLAYER

Frequency range	20 - 20000 Hz
Signal-to-noise	≥ 86 dBA
Channel separation	≥ 40 dB
Total harmonic distortion	≤ 65 dB

CASSETTE DECK

Frequency range	
Normal tape (type I)	80 - 14000 Hz (±5 dB)
Signal-to-noise ratio	
Normal tape (type I)	≥ 48 dBA
Wow and flutter	≤ 0.4% DIN

CABINET

Material/finish	Metal and polystyrene
Dimensions (w x h x d)	665 x 310 x 360 (mm)
Weight with speakers	11 kg approx.
Weight without speakers	6 kg approx.

Subject to modification

Troubleshooting Guide

Warning! Under no circumstances should you try to repair the set yourself, as this will invalidate the warranty.

- If a fault occurs, check the points listed below before taking the set for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

Symptom	Cause	Remedy
Radio Reception		
The STEREO indicator flashes.	The signal is too weak.	Adjust the antenna.
Severe hum or noise	The signal strength is too weak. The TV or VCR is too close to the stereo system.	Adjust the antenna. Separate the stereo system from the TV or VCR. Connect an external antenna for better reception.
Cassette Deck Operation		
Recording is not possible.	No cassette in the cassette deck. The small tab has been broken.	Insert a blank cassette into the cassette deck. Put a piece of clear adhesive tape over the opening
Recording or playback cannot be made or there is a decrease in audio level.	Dirty tape heads. Magnetic build-up in the record/playback head	See section on cassette deck maintenance. Use demagnetizing cassette
Excessive wow or flutter, or sound drop-out.	Contamination of the capstans or pressure rollers.	See section on cassette deck maintenance.
CD Player Operation		
"NO DISC" is displayed.	The disc is inserted upside down. Moisture condensation. There is no disc in the selected CD tray. The CD is dirty, badly scratched or warped.	Place CD with printed side up. Wait until lens has adjusted to normal room temperature. Insert a CD. Replace or clean the CD.
General		
Set not working.	Set does not react when buttons are pressed.	Press POWER ON to switch the unit off, then switch it on again. Or, unplug the AC power plug from the wall outlet, then plug it in again.
No or poor sound.	Volume is not turned up. The headphones are connected. Speakers are not connected or are connected wrongly.	Turn VOLUME clockwise. Disconnect the headphones. Check that the speakers are connected correctly. Make sure that the stripped speaker wire is clamped.
Reversed left and right sound.	Speakers are connected wrongly.	Check the speaker connections and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments.	Speakers are connected wrongly.	Check the speaker connection for proper phasing, red/black wires to red/black terminals.
Clock blinking.	There was a power out.	Reset the clock.
Remote control has no effect on the set.	The distance to the system is too large. Batteries are inserted incorrectly. Batteries are dead. Wrong sound source is selected.	Reduce the distance. Insert the batteries correctly. Replace the batteries. Select the sound source before pressing the function button, (PLAY, NEXT, PREV, etc.)
Timer not working	Timer not on. Dubbing/recording is active.	Press TIMER ON • OFF on the set to switch on the timer.
"PRESS DEMO TO EXIT" is displayed.	Demo mode is switched on.	Press POWER ON or DEMO to switch off demo mode.



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