

PHILIPS

FW 332 Mini HiFi System



Instructions for use
Руководство по эксплуатации
Instrukcja obsługi
Návod k obsluze
Návod na použitie
Használati útmutató



PHILIPS

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MAGYARORSZÁG

Minőségtanúsítás

A garanciajegygen feltüntetett forgalombahozó vállalat a 2/1984. (III.10.) BKM-IpM együttes rendelet értelmében tanúsítja, hogy ezen készülék megfelel a műszaki adatokban megadott értékeknek.

Figyelem!

A meghibásodott készüléket - beleértve a hálózati csatlakozót is - csak szakember (szerviz) javíthatja.
Ne tegye ki a készüléket esőnek vagy nedvesség hatásának!

Garancia

A forgalombahozó vállalat a termékre 12 hónap garanciát vállal.

Névleges feszültség	220-230 V
Elemes működéshez	2 x AA/R6
Névleges frekvencia	50 Hz (vagy 50-60 Hz)

Teljesítmény

maximális	45 W
névleges	20 W
készenléti állapotban	10 W

Érintésvédelmi osztály II.

Tömeg..... 11 kg

Befoglaló méretek

(szélesség, magasság, mélység)..... (665 x 310 x 360) mm

Rádiórész vételi tartomány

URH OIRT	65,81-74 MHz
CIRR	87,5-108 MHz

Erőstőrész

Kimeneti teljesítmény	280 W PMPO 2x 15 W RMS
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ČESKA REPUBLIKÁ

VÝSTRAHA!

Tento přístroj pracuje s laserovým paprskem. Při nesprávné manipulaci s přístrojem (v rozporu s tímto návodem) může dojít k nebezpečnému ozáření. Proto přístroj za chodu neotevírejte ani nesnímejte jeho kryty. Jakoukoli opravu vždy svěřte specializovanému servisu.

NEBEZPEČÍ!

Při sejmutí krytů a odjištění bezpečnostních spínačů hrozí nebezpečí neviditelného laserového záření!

Čtěte se před přímým zásahem laserového paprsku.

ZÁRUKA

Tento přístroj byl vyroben s největší pečlivostí a nejmodernějšími výrobními metodami. Jsme přesvědčeni, že vám bude bezchybně sloužit, pokud budete dodržovat pokyny v návodu. V případě jakékoli závady se laskavě obraťte na svého obchodníka nebo přímo na servisní organizaci firmy Philips. Dbejte též, aby vám prodávající řádně vyplnil záruční list.

Pokud by však byly na přístroji shledány cizí zásahy, nebo byl obsluhován v rozporu s pokyny v návodu, záruční nároky zanikají. Záruční doba je dvanáct měsíců ode dne prodeje.

Pokud byste z jakéhokoli důvodu přístroj demontovali, vždy nejdříve vytáhněte síťovou zástrčku.

Přístroj chraňte před jakoukoli vlhkostí i před kapkami vody.

**CLASS 1
LASER PRODUCT**

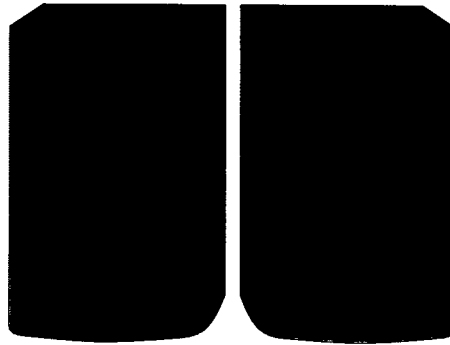
General Information

- 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 off dead batteries with your household waste. Dispose off 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 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.

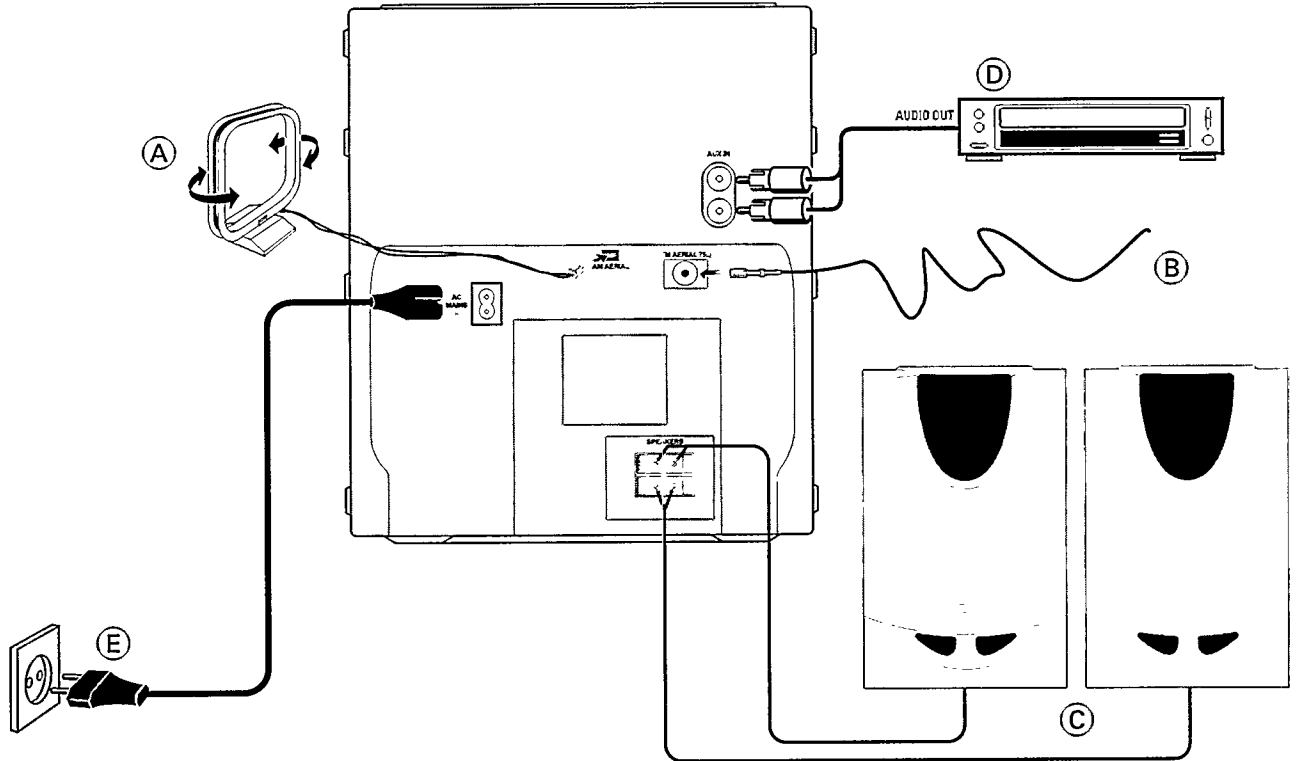


- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement use type R6 or AA batteries.

Preparations

English

Rear Connection



Ⓐ 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.

Ⓑ FM Wire Antenna Connection

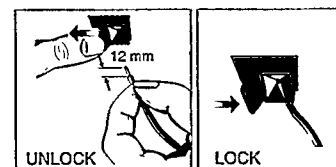
Connect the supplied FM wire antenna to the FM 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

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.

Ⓒ 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 blank portion of the wire as shown.

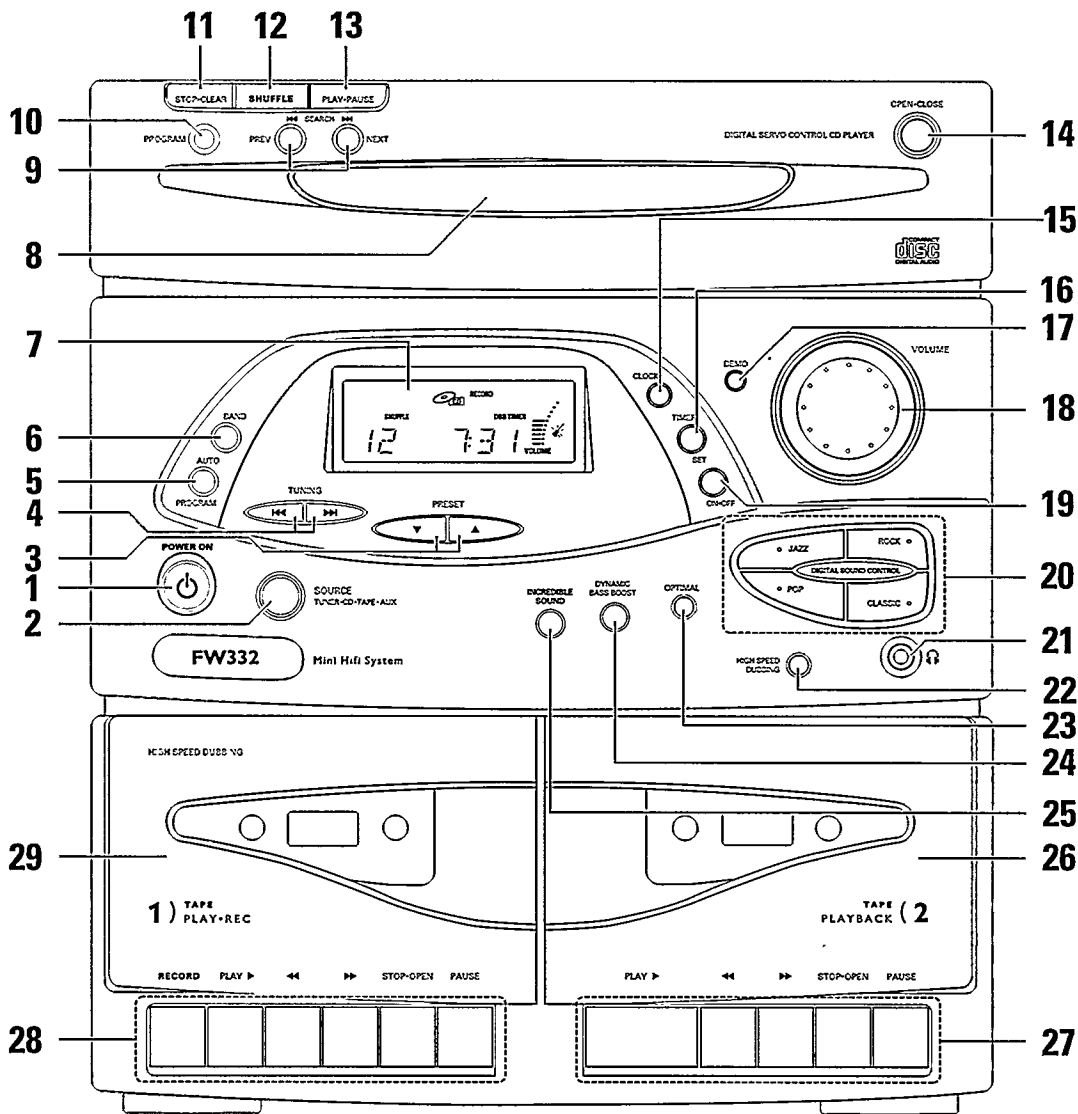


Ⓓ Connecting other equipment to your system

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

Ⓔ 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.



- | | |
|---|---|
| <p>1 POWER ON
– to switch the set on or to standby mode.</p> <p>2 SOURCE
to select the following :</p> <p>TUNER : to switch to Tuner 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).</p> <p>3 PRESET ▲ or ▼
– to select a radio station in memory. Also use for clock and timer setting.</p> <p>4 TUNING ◀◀ or ▶▶
– to tune to radio stations
 ◀◀ : lower frequencies.
 ▶▶ : higher frequencies.
 Also use for clock and timer setting.</p> <p>5 AUTO PROGRAM
– to program preset stations automatically or manually.</p> | <p>6 BAND
– to select the waveband : FM, MW or LW (not for all versions).</p> <p>7 DISPLAY
– to display the current setting of the set.</p> <p>8 CD TRAY</p> <p>9 ◀◀ PREV / NEXT ▶▶
– to skip to the beginning of the current or previous/next track or to search backward/forward.</p> <p>10 PROGRAM
– to program CD tracks.</p> <p>11 STOP•CLEAR
– to stop CD play or to clear a program.</p> <p>12 SHUFFLE
– to play all the tracks in random order.</p> <p>13 PLAY•PAUSE
– to start or interrupt CD play.</p> <p>14 OPEN•CLOSE
– to open or close the CD tray.</p> |
|---|---|

Controls

15 CLOCK

- to set the clock.

16 TIMER SET

- to set the timer.

17 DEMO

- to display the various features offered by the system.

18 VOLUME

- to adjust the volume level.

19 TIMER ON•OFF

- to switch the timer on or off.

20 DIGITAL SOUND CONTROL (DSC)

- to select the desired sound effect : JAZZ, ROCK, POP or CLASSIC.

21 HEADPHONES

- to connect headphones (ø 3.5mm) jack.

22 HIGH SPEED DUBBING

- to dub from **TAPE DECK 2** to **TAPE DECK 1** at high speed.

23 OPTIMAL

- to select the sound setting that is tuned to the acoustics of the supplied speakers.

24 DYNAMIC BASS BOOST (DBB)

- to switch on bass boost to enhance bass response or to switch off bass boost.

25 INCREDIBLE SOUND

- to switch on or off the surround sound effect.

26 TAPE DECK 2

27 TAPE 2 CASSETTE OPERATION

- **PLAY ►** : to start playback.
- **◀◀** : to rewind the cassette.
- **▶▶** : to fast forward the cassette.
- **STOP•OPEN** : to stop playback or to open the cassette compartment.
- **PAUSE** : to interrupt playback

28 TAPE 1 CASSETTE OPERATION

- **RECORD** : to start recording.
- **PLAY ►** : to start playback.
- **◀◀** : to rewind the cassette.
- **▶▶** : to fast forward the cassette.
- **STOP•OPEN** : to stop playback or to open the cassette compartment.
- **PAUSE** : to interrupt playback or recording.

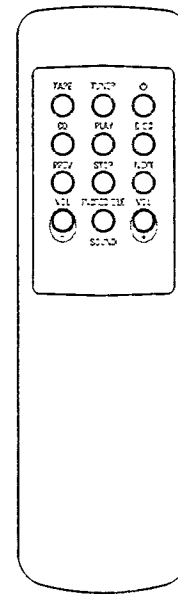
29 TAPE DECK 1

Remote Control Functions

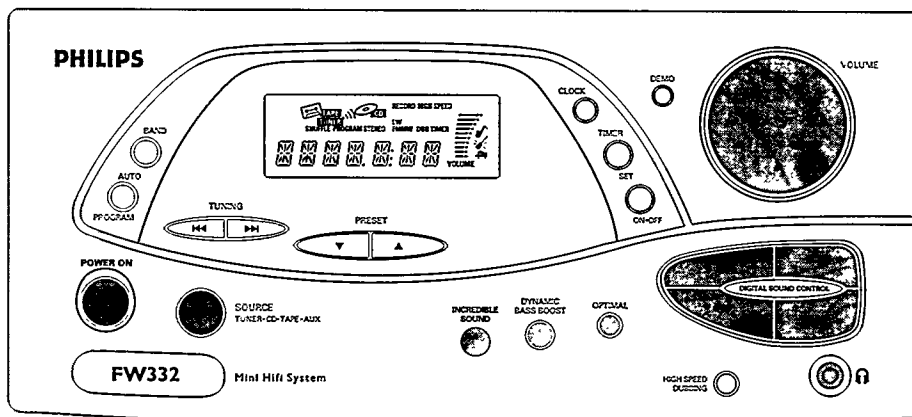
- First select the source you wish to control by pressing one of the source select keys on the remote control (e.g. TUNER, CD or TAPE).
- Then select the desired function (PLAY, NEXT, etc.).

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.



- ⏻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**not functional for this model.
- PREV / NEXT**
 - for TUNERto select a lower/higher tuner preset station.
 - for CDto select previous/next CD track.
- STOP**to stop play in CD mode.
- VOLUME + / -**to adjust the volume.
- INCREDIBLE SOUND** ...to switch on or off the surround sound effect.



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** selection either **TUNER**, **CD**, **TAPE** or **AUX** (or **CD**, **TUNER** or **TAPE** on remote control).
→ The display indicates the selected sound source.

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

Note :

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

Volume Adjustment

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

For Personal Listening

Connect the headphones jack to the Ⓜ socket (3.5mm) 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.



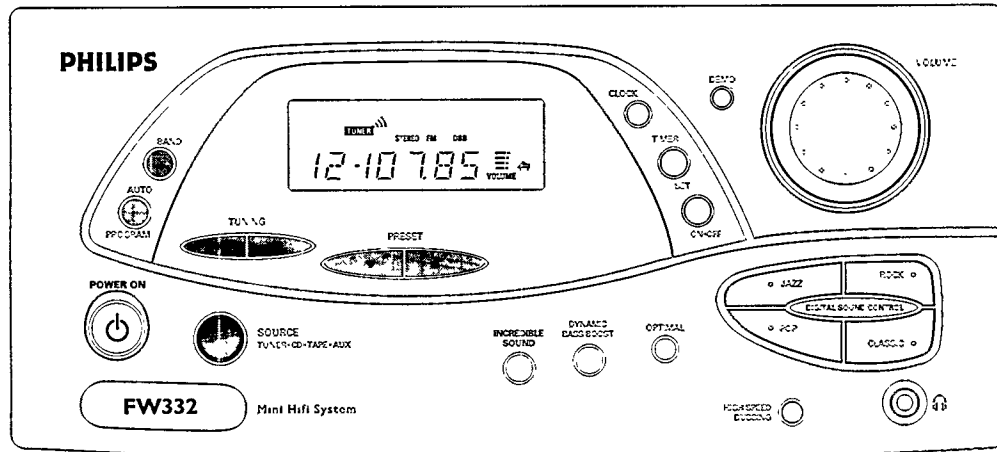
Demo mode

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.

Tuner

English



Tuning to radio stations

- 1 Press **SOURCE** to select TUNER.
- 2 Press **BAND** to select the desired waveband: FM, MW or LW (*not for all versions*).
- 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, MW or LW (*not for all versions*).
 - 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:

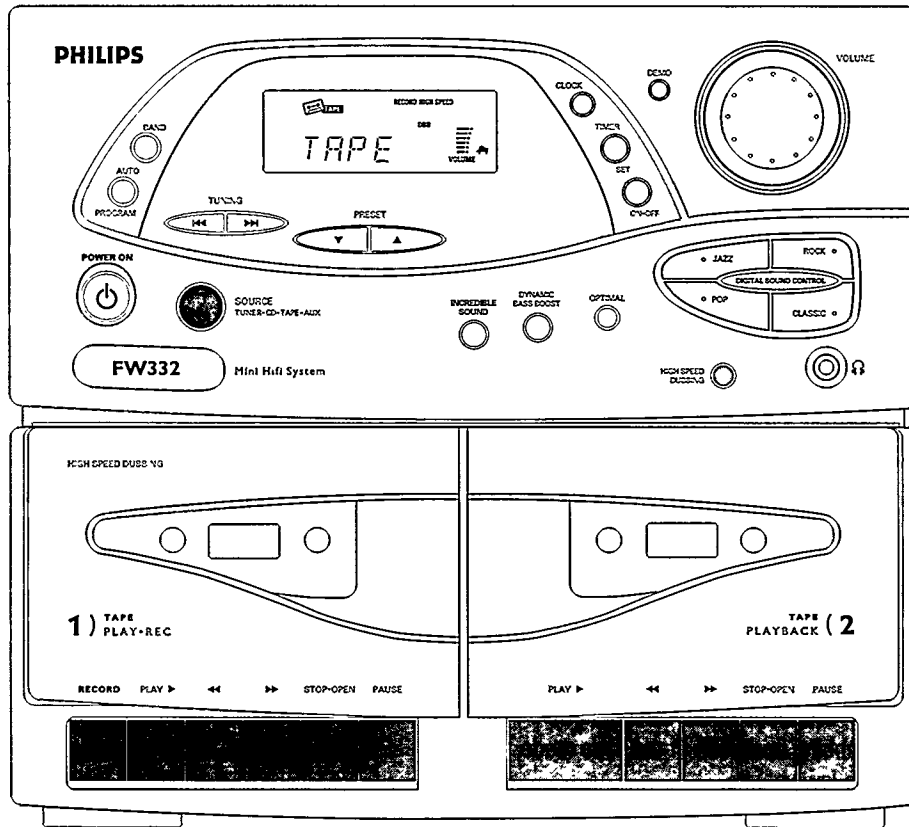
If you want to maintain some old preset numbers, for example preset number 1 - 9, select preset 10 before starting automatic programming: now only the preset numbers 10 to 20 will be programmed.

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, MW or LW (*not for all versions*).
 - 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.



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 either **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 cassette 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.

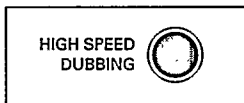
Note:

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.



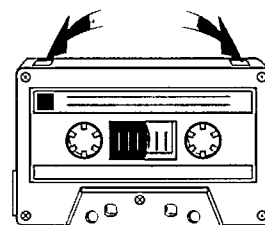
Notes:

- 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.

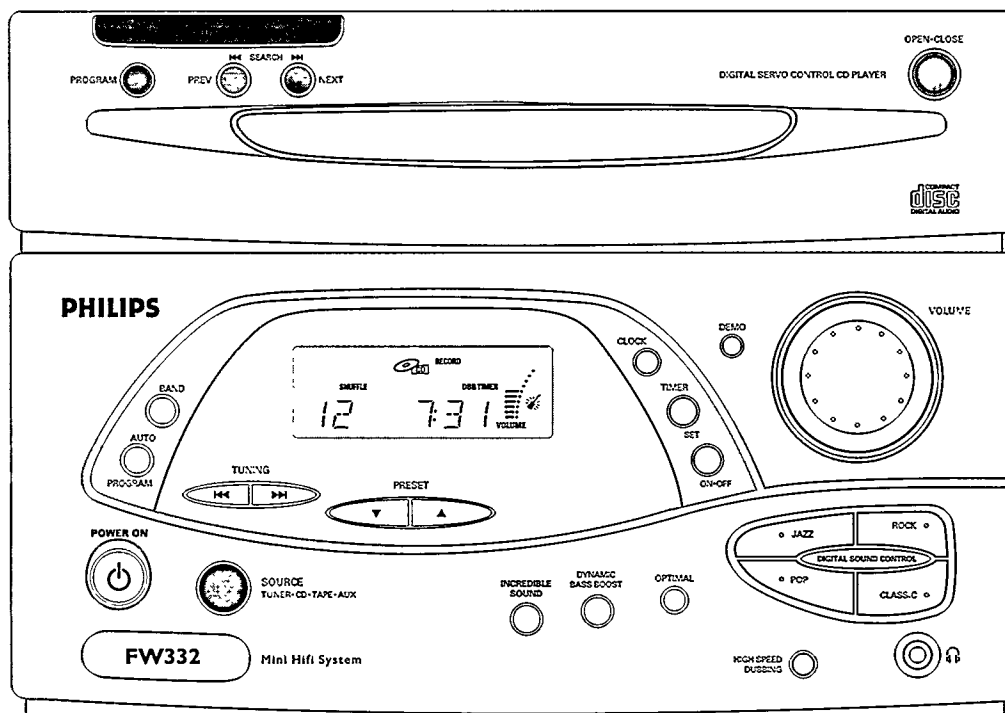
General Information

- For recording, use only a cassette of IEC type I (normal cassette).
- The tape in the cassette is secured at both ends with a 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. To re-record the cassette, cover each hole with cellophane tape.

Erasure 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).



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 the tray.

In addition to the conventional 12-cm disc, 8-cm disc can also be used without an adaptor.

Loading a Disc

- 1 Press **SOURCE** to select CD.
- 2 Press **OPEN•CLOSE**.
→ The CD tray slides out.
- 3 Load a disc with **printed side up**.
- 4 Press **OPEN•CLOSE** to close the CD tray.
→ The total number of tracks and playing time appear on the display.

Playing a Disc

- 1 Press **PLAY•PAUSE** (or **PLAY** on the remote control) to start play.
→ The 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 :

When the CD has stopped playing, the set will switch to the standby mode automatically after 15 minutes if no button is pressed.

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.

Compact Disc

Shuffle

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

To shuffle all the tracks

- 1 Press **SHUFFLE**.
 - "SHUFFLE" appears briefly on the display.
 - The SHUFFLE flag and the track selected at random appear on the display.
 - 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 display.

Programming Tracks

Programming tracks of the loaded CD is possible in stop mode of the CD. The display will indicate the total tracks stored in the program. Up to 20 tracks can be stored in the memory in any order. When 20 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL".

- 1 Load the desired disc in the disc tray.
- 2 Press **PROGRAM** to start programming.
 - The PROGRAM flag flashes on the display.
- 3 Press **◀◀ PREV** or **NEXT ▶▶** to select the desired track.
- 4 Press **PROGRAM** to store the track.
 - Repeat steps 3 to 4 to store other tracks.
- 5 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 will appear on the display.
- 2 Press **STOP•CLEAR** to stop program playback.

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** or **OPEN•CLOSE**.
 - "PROGRAM CLEARED" appears on the display.

Note :

Program is also erased when the set is disconnected from the power supply.

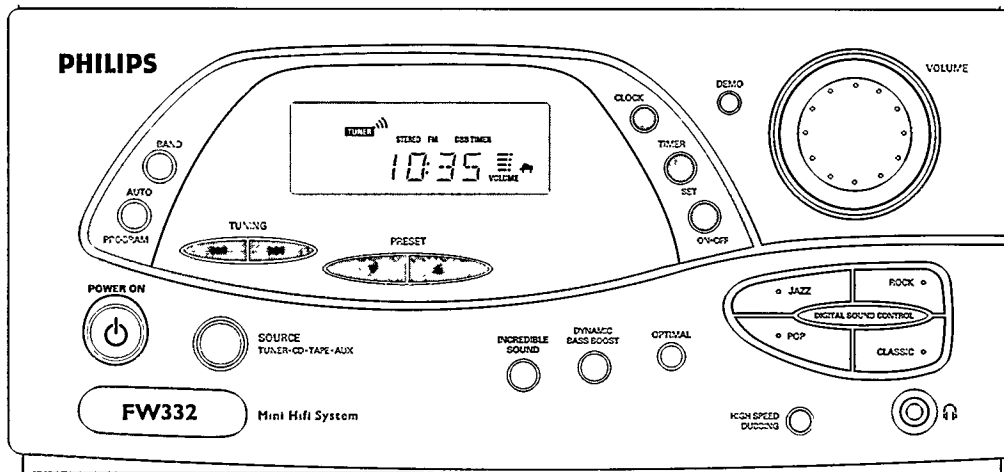
CD Recording

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.



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**

- 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.

Notes:

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 disc will be played. If the CD tray is empty, the TUNER source will be selected instead.

English

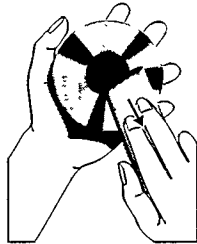
Maintenance

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

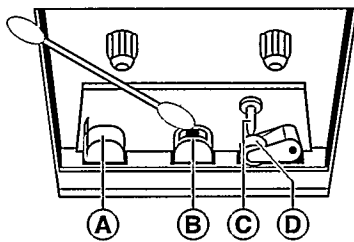
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.



- 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
Power band width	63 - 20000 Hz
Frequency response.....	63 - 20000 Hz
Signal-to-noise ratio.....	≥ 70 dBA
Stereo separation	≥ 48 dB (1 kHz)
Input sensitivity	
Aux	400 mV
Outputs	
Speakers.....	≥ 3Ω
Headphones (3.5mm)	32 Ω - 1000 Ω

TUNER

FM I wave range	
30 kHz Grid	65.81 - 74 MHz
FM II wave range	
50 kHz Grid	87.5 - 108 MHz
MW wave range	
9 kHz Grid.....	531 - 1602 kHz
LW wave range (not on all versions)	153 - 279 kHz
Sensitivity at 75 Ω, 26 dB S/N ratio, FM mono.....	4.35 μV
46 dB signal-to-noise ratio, FM Stereo.....	97.4 μV
FM Frequency response	63 - 12500 Hz (± 3 dB)
Signal-to-noise ratio.....	≥ 50 dBA
Total Harmonic Distortion	< 2%

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)	≥ 43 dB
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 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, 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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