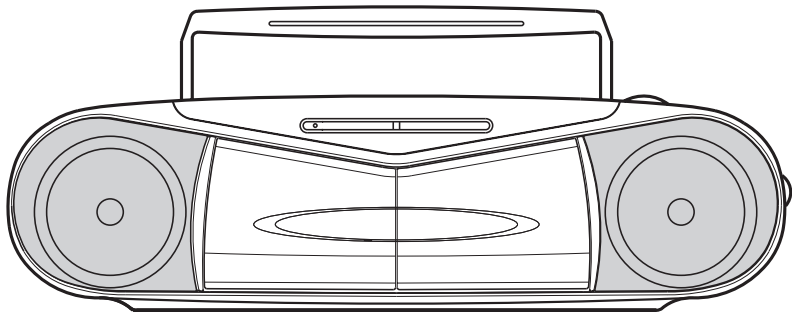
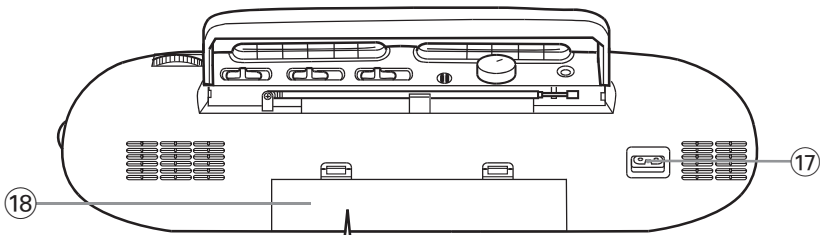
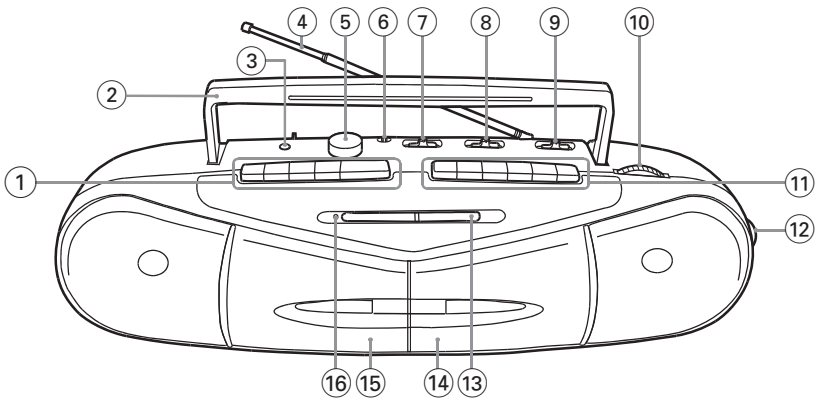


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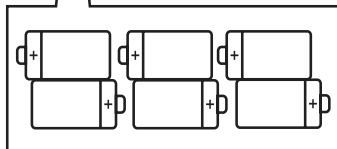
## User Manual



1



6 x SUM-1 • D-CELLS • HP 2 • R20



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## Supplied Accessories

– AC power cord

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## Top and front panels (See 1)

① **Cassette recorder keys (Cassette A):**

**PAUSE II** – pauses playback or recording

**STOP•EJECT ■▲**

– stops playback or recording.

– opens the cassette holder.

**F. F/REW ◀◀ or ▶▶**

– fast winds/rewinds the tape

**PLAY ◀** – starts playback

② **Handle** – hand carries the set

③ **PHONES** – 3.5mm stereo headphone jack

*Helpful hints: Connecting the headphones will switch off the speakers.*

④ **Telescopic antenna** – improves FM/SW reception.

⑤ **VOLUME rotary** – adjusts volume level

⑥ **MIC (built-in microphone)**

– for voice recording

⑦ **DUBBING/BEAT CUT**

– switches to change recording speed

– switches to reduce interference when recording radio station

⑧ **Source selector: TAPE (OFF), RADIO**

– selects tape or radio source of sound

– switches off the set

⑨ **Band selector: MW, SW1, SW2, FM**

– selects wavebands, MW, SW1, SW2 or FM

⑩ **TUNING rotary** – tunes to radio stations

⑪ **Cassette recorder keys (Cassette B):**

**PAUSE II** – pauses playback or recording

**STOP•EJECT ■▲**

– stops playback or recording.

– opens the cassette holder:

**F. F/REW ◀◀ or ▶▶**

– fast winds/rewinds the tape

**PLAY ◀** – starts playback

**RECORD ●** – starts recording

⑫ **FINETUNING rotary** – fine tunes radio frequency

⑬ **Frequency reader**

⑭ **Cassette door B**

⑮ **Cassette door A**

⑯ **FM STEREO indicator** – lights up for stereo FM reception

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## Back panel (See 1)

⑰ **AC INPUT** – inlet for power cord

⑱ **Battery door** – open to insert 6 X 1.5 batteries, type R20 or D-cells

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## Power supply

Whenever convenient, use the power cord if you want to conserve battery life. Make sure you remove the plug from the set and wall outlet before inserting batteries.

### Batteries (not included)

- Insert 6 batteries, type **R20** or **D-cells** (preferably alkaline) with the correct polarity. (See 1).

**Batteries contain chemical substances, so they should be disposed of properly.**

- Incorrect use of batteries can cause electrolyte leakage and will corrode the compartment or cause the batteries to burst:
- Do not mix battery types: e.g. alkaline with carbon zinc. Only use batteries of the same type for the set.
- When inserting new batteries, do not try to mix old batteries with the new ones.
- Remove the batteries if the set is not to be used for a long time.

## Power Supply

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### Using AC power

- 1 Connect the power cord to the **AC INPUT** inlet and the wall socket. The set is now connected and ready for use.
  - 2 To switch the set off completely, withdraw the power cord from the wall socket.
  - 3 Install the unit near the AC outlet and where the AC power plug can be easily reached.
- Disconnect the power cord from the wall socket to protect your set during heavy thunderstorms. Children could seriously injure themselves as the free end of the cable may still be live if only the connector is removed from the MAINS socket at the back of the unit.

**Helpful hints:** To avoid unnecessary energy consumption, always adjust the **Source selector** to **TAPE (OFF)** after using the set. Also check that the tape deck keys are released.

**The type plate is located on the bottom of the set.**

## General Operation/ Radio


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### General operation

#### Switching on and off and selecting functions

- 1 To switch on, push the **Source selector** slider to **TAPE** or **RADIO** as desired.
- 2 To switch off, push the **Source selector** to **TAPE/OFF** and check the cassette keys are released.

#### Helpful hints:

- To change from **TAPE** to **RADIO**, or when you are switching off the set: first make sure you press the **STOP•EJECT**  key to end playback and all the cassette keys are released.

#### Adjusting volume

Adjust the volume with the **VOLUME** control.

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### Radio reception

- 1 Adjust the **Source selector** to **RADIO**.
- 2 Adjust the **Band selector** to select your desired waveband, **MW**, **SW1**, **SW2** or **FM**.
- 3 Turn **TUNING** to tune to a station.
  - **FM STEREO** lights up when receiving stereo FM reception.
  - When receiving **SW**, you may also use **FINETUNING rotary** to fine tune to a station.
- 4 To switch off the radio, adjust the **Source selector** to **TAPE (OFF)** position.

#### To improve radio reception:

- For **FM**, **SW2**, extend and turn the telescopic antenna for best reception. Reduce its length if the signal is too strong.
- For **MW**, **SW1**, the set uses a built-in antenna. Direct this antenna for best reception by turning the whole set.

# Cassette Recorder

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## Tape operation/recording

### Playing a tape (Cassette A or B)

- 1 Push the **Source selector** to **TAPE**.
- 2 Press **STOP•EJECT** ■/▲ to open the cassette holder and insert a cassette and close the deck.
- 3 Press **PLAY** ◀ to start playback.
- 4 To pause playback press **PAUSE** II. To resume, press the key again.
- 5 By pressing **F.F/REW** ◀◀ or ▶▶, fast forwarding/rewinding of the tape is possible in both directions. To stop fast winding, press ■/▲.
- 6 To stop the tape, press ■/▲.

### Helpful hints:

- During playback, the keys are automatically released at the end of a tape and the set is switched off (unless **PAUSE II** mode has been activated).
- During fast forwarding/rewinding, the keys will not be released at the end of a tape. To switch off the set, make sure the cassette keys are also released.

### Non-stop playback from Cassette A to Cassette B

- 1 Push the **Source selector** to **TAPE**.
- 2 Insert a cassette tape in both Cassette A and Cassette B, then close both decks.
- 3 Press **PLAY** ◀ on Cassette A to start playback.
- 4 Press **PLAY** ◀ on Cassette B.
  - Cassette B is in standby for playback.
- 5 Cassette B playback will auto start when Cassette A comes to the end of the tape.
  - The playback will auto stop until the end of tape B.

### General information on recording

- Recording is permissible insofar as copyright or other rights of third parties are not infringed.
- For recording, use only **NORMAL** type cassettes (IEC type I) on which the tabs have not yet been broken. This deck is not suited for recording on **CHROME** (IEC II) or **METAL** (IEC IV) type cassettes.
- The best recording level is set automatically. Altering the **VOLUME** will not affect the recording.
- To protect a tape from accidental erasure, break out the tabs. If you wish to record again, cover the tabs with a piece of adhesive tape.

### Recording from the Radio (Cassette B only)

- 1 Select **RADIO** source.
- 2 Tune to the desired radio station (see **Radio reception**).
- 3 Press ■/▲ on the **Cassette B** to open the cassette holder. Insert a blank tape and close the deck.
- 4 Press **REC** ● to start recording.
- 5 For brief interruptions press **II**. To resume recording, press **II** again.
- 6 To stop recording, press ■/▲.

### Helpful hints :

- When recording from radio stations, adjust **DUBBING/BEAT CUT** on the top panel to **1** or **2**, if necessary, to reduce interference.

# Cassette Recorder

## Recording your voice (Cassette B only)

- 1 Select **TAPE** source.
- 2 Follows steps **3-4** under **Recording from the Radio**.
- 3 Speak towards the built-in microphone **MIC** located on the top panel.
  - Your voice is recorded.
- 4 Follows steps **5-6** under **Recording from the Radio**.

### Helpful hints :

- When recording, speaking a little far toward the **MIC** on the top panel to avoid distortion of recorded sound.
- When recording, volume adjusting will not affect the volume of the recorded sound. The recorded sound volume can be auto adjusted.

## Recording Cassette A to Cassette B

- 1 Select **TAPE** source.
- 2 Insert a tape to be recorded in the Cassette A.
  - If desired, select a particular point of tape A to start recording.
- 3 Insert a blank tape in the Cassette B.
- 4 Push **DUBBING/BEAT CUT** on the top panel to **NORMAL** or **HIGH** position.

**NORMAL:** Recording speed is the same as the Cassette A playback.

**HIGH:** Recording speed is about 2 times the Cassette A playback.

- 5 Press **PAUSE II** on the Cassette B.
- 6 Press **REC** ●.
  - Cassette B is in standby for recording.
- 7 Press **PLAY** ◀ on the Cassette A.
  - **PAUSE II** auto ejects, and recording starts.

## To stop recording,

- Simultaneously press ■ / ▲ on the Cassette A and Cassette B.
- Recording will auto stop when **Tape B** comes to the end earlier.
- When **Tape A** comes to the end earlier, immediately press ■ / ▲ on the Cassette B to stop recording.

### Note:

- When recording, do not switch **DUBBING/BEAT CUT** to change recording speed.

**The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.**



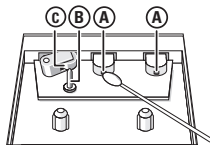
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# Maintenance & Safety

## Tape deck maintenance

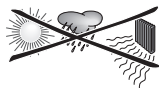
To ensure quality recording and playback of the tape deck, clean parts (A), (B) and (C) as shown, once a month. Use a cotton bud slightly moistened with alcohol or a special head cleaning fluid to clean the deck.

- 1 Open the cassette holder by pressing ■▲.
  - 2 Press ◀ and clean the roller (C).
  - 3 Press ; and clean the heads (A), and the capstan (B).
  - 4 After cleaning, press ■▲.
- Cleaning of the heads can also be done by playing a cleaning cassette through once.



## Safety information

- Place the set on a flat, hard and stable surface so that the system does not tilt.
- Do not expose the set, batteries to humidity, rain, sand or excessive heat caused by heating equipment or direct sunlight.
- The apparatus shall not be exposed to dripping or splashing.
- the MAINS plug or an appliance coupler is used as the disconnet device, the disconnet device shall remain readily operable.
- Adequate ventilation with a minimum gap of 15cm (6 inches) between the ventilation holes and surrounding surfaces is necessary to prevent heat build-up.
- Do not cover the ventilation openings with items such as newspapers, table-cloths, curtains, etc.
- No objects filled with liquids, such as vases, shall be placed on the apparatus.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- To clean the set, use a dry cloth. Do not use any cleaning agents containing alcohol,



ammonia, benzene or abrasives as these may harm the housing.

# Troubleshooting

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If a fault occurs, first check the points listed below before taking the set for repair.

If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

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

## Problem

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- Possible cause
- Remedy

## No Sound/Power

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- Volume not adjusted
- Adjust the VOLUME
- Power cord not securely connected
- Connect the AC power cord properly
- Batteries dead/ incorrectly inserted
- Insert (fresh) batteries correctly
- Headphones connected to the set
- Disconnect headphones.

## Display does not function properly / No reaction to operation of any of the controls

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- Electrostatic discharge
- Switch off and unplug the set. Reconnect after a few seconds

## Severe radio hum or noise

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- Electrical interference: set too close to TV, VCR or computer
- Increase the distance

## Poor radio reception

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- Weak radio signal
- FM: Adjust the FM telescopic aerial
- MW: Direct this antenna for best reception by turning the whole set.

## Poor cassette sound quality

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- Dust and dirt on the heads, etc.
- Clean deck parts, see Maintenance
- Use of incompatible cassette types (METAL or CHROME)
- Only use NORMAL (IEC I) for recording

## Recording does not work

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- Cassette tab(s) may be broken
- Apply adhesive tape over the missing tab space

## Environmental information

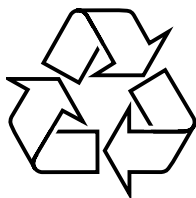
All unnecessary packaging material has been omitted. The packaging can be easily separated into three materials: cardboard, polystyrene and plastic.

**Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging, dead batteries and old equipment.**



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