SANYO

INSTRUCTION MANUAL

RM-DB5

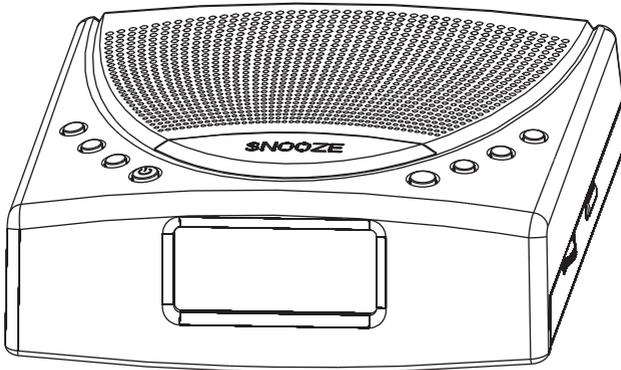**DAB+/FM Clock Radio**

TABLE OF CONTENTS

SAFETY PRECAUTIONS

To achieve the utmost in enjoyment and performance, please read this manual carefully before attempting to operate the unit in order to become familiar with its features, and assure you years of faithful, trouble free performance and listening pleasure.

Important Notes

* Read instructions - All the safety and operating instructions should be read before the apparatus is operated
* Retain instructions - The safety and operating instructions should be retained for future reference.
* Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
* Attachment Do not use attachment not recommended by the product manufacturer as they may cause hazards.
* Power Sources -The apparatus should be connected to a power supply only of the type described in the operating instructions of as marked on the apparatus.
* "To be completely disconnected the power input, the mains plug of apparatus shall be disconnected from the mains." as the disconnect devices is the mains plug of apparatus.
* Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the apparatus
* During Intended Use - The mains plug of apparatus should be easily accessed.
* Nonuse Periods - The power cord of the apparatus should be unplugged from the outlet when left unused for a long period of time.
* This apparatus shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
* The apparatus should be situated so that its location or position does not interfere with its proper ventilation. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.
* Do not install this apparatus in a confined space, such as a book case or built-in cabinet. Minimum distance (about 100mm) around the apparatus for sufficient ventilation.
* No naked flame sources such as lighted candles should be placed on the apparatus.
* Do not use where there are extremes of temperature (below 5°C or exceeding 35°C).
* The caution marking was located at the bottom enclosure of the apparatus.
* The nameplate marking was located at the bottom enclosure of the apparatus.
* The use of apparatus in moderate climates.

ESD Remark: In case of malfunction due to electrostatic discharge, just reset the product (reconnect of power source may be required) to resume normal operation.
Should any trouble occur, remove the power source and refer servicing to qualified personnel.

WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO DRIPPING OR SPLASHING.

For safety reasons, do not remove any covers or attempt to gain access to the inside of the product. Refer any servicing to qualified personnel.
Do not attempt to remove any screws, or open the casing of the unit; there are no user serviceable parts inside, refer all servicing to qualified service personnel.

Note:
- This unit will become warm when used for a long period of time. This is normal and does not indicate a Problem with the unit.
- If an unusual conditions occurs in the display window or key button, switch the unit off, then turn on the unit again.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS:RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR

You can see this carved picture on the
bottom of the main unit.

This symbol indicates that dangerous
voltage constituting a risk of electric
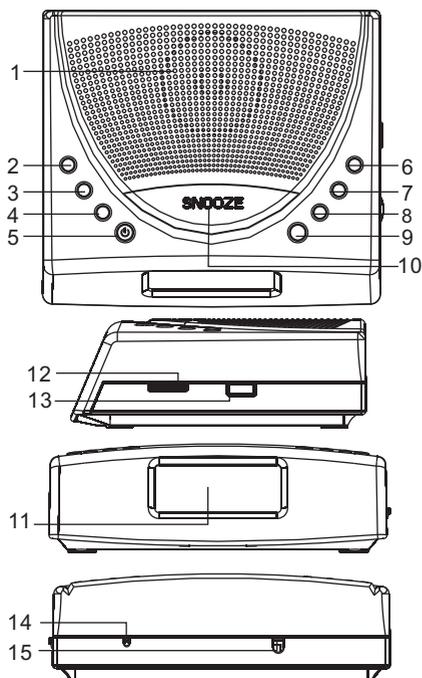shock is present within this unit.

This symbol indicates that there are
important operating and maintenance
instructions in the information
accompanying this unit.

You can see this label on the
bottom of the main unit.

FEATURES AND CONTROLS

1 ──

2 ──
3 ──
4 ──
5 ──

SNOOZE

── 6
── 7
── 8
── 9
── 10

12 ──
13 ──

11 ──

14 ──
15 ──

1. SPEAKER

2. ALARM 1 BUTTON

3. ALARM 2 BUTTON

4. SLEEP BUTTON

5. STANDBY/ON BUTTON

6. MENU BUTTON

7. PRESET BUTTON

8. INFO BUTTON

9. DAB+/FM BUTTON

10. SNOOZE BUTTON

11. LCD DISPLAY

12. VOLUME/SCROLL CONTROL

13. JOG MODE/SELECT BUTTON

14. ANTENNA

15. AC POWER CORD

OPERATING THE UNIT

Before operating the unit for the first time, make sure the AC power cord is properly connected to a 240V 50Hz AC outlet, then you can now press the STANDBY/ON button to switch the unit ON. Pull the AC plug out of the wall socket if you want to switch off completely.

CLOCK SETTING

When the radio is connected to the AC power for the first time, it will be in standby mode. The display backlight will be on for a few seconds and the clock will be finally displayed. Press the **STANDBY/ON** button once to turn the radio on, it will then automatically enter into the DAB mode and perform auto scan function, after the scan has finished, the first alphanumerically found station will be automatically selected. The clock will then be synchronized to the current local time in a few seconds. Manual clock setting is not required.

ALARM FUNCTION

This unit incorporates an identical Dual Alarm function. You can have two individual alarm wake-up time and wake-up mode settings to wake you to an electronic buzzer tone or your favourite radio station (DAB/FM).

Setting the alarm time and wake-up mode
1. Depress and hold the **ALARM** button (**1** or **2**) until the display shows "Alarm Setting".
2. Rotate the **VOLUME/SCROLL** control followed by pressing the **SELECT** button to adjust and confirm your desired alarm time - first set the hour and then the minute. (F. 1)
3. After the confirmation of the minute setting, the alarm time is set and you will enter into the wake-up mode settings.

4

4.   Rotate the **VOLUME/SCROLL** control followed by pressing the **SELECT** button to adjust and confirm the wake-up mode settings - first set the DAB and FM Preset (1-10), then the Buzzer Tone (1 or 2) and finally the alarm wake-up Volume level (1-20) . (F. 2)
5.   After the confirmation of the wake-up volume level setting, the wake-up mode settings are completed and the alarm function is now ready for you to activate.
6.   Repeat the above procedures to set the other Alarm (1 or 2).

```
 10:37            10:37
Alarm 1 Setting  Alarm 1 Setting
F1 Time    00:00  F2 ◆DAB Preset  1 ◆
```

Activating the alarm function
1.   To activate the alarm function, repeatedly press the **ALARM** button (**1** or **2**), the associated alarm wake-up mode will be displayed and change in the below sequence on every press:

Alarm Off → DAB Preset # → FM Preset # → Buzzer Tone #

2.   When the display shows your desired alarm wake-up mode, release the button, the alarm function is now activated and the associated alarm icon will be displayed.
3.   When the alarm time arrives, the selected wake-up mode will be on and the alarm icon in the display will flash to indicate the alarm is triggered. To stop the alarm sooner, press the **STANDBY/ON** button.
4.   To check the alarm status, press the **ALARM** button (**1** or **2**) once and the associated alarm status will be displayed.

Note: If you have activated the alarm function and the wake-up mode is DAB or FM, make sure that the volume is at a sufficient level for you to hear.

Automatic Alarm Repeat
The alarm will automatically repeat each day at the selected time as long as the alarm icon is displayed. To cancel this function, repeatedly press the **ALARM** button (**1** or **2**) button until the display shows "Alarm off".

SNOOZE FUNCTION

When the alarm has triggered, press the **SNOOZE** button will temporary switch off the alarm for 5 minutes, the display will show " Zz "to indicate snooze on. This is repeatable in the one hour alarm duration.

Note: The alarm comes first will have the priority and it would continue for a one hour duration, the snooze will just switch off this alarm temporary during this duration, so if the second alarm comes in this period, it will not function. But if the first alarm is switched off before the second alarm arrives, then the second alarm will be activated.

SLEEP FUNCTION

This function allows you to program the radio to switch off itself after a set period of time.
1.   To activate the sleep function, repeatedly press the **SLEEP** button, the display will show "Sleep Timer" and the time will change in the below sequence on every press:

90 ➤ 80 ➤ 70 ➤ 60 ➤ 30 ➤ 10

2.   When your desired sleep time appears in the display, release the button and the sleep function will be activated in two seconds. The display will show "S#" where "S1" is to represent "10 minutes" sleep time and so on.
3.   When the sleep time counts to zero, the unit will go off. To put the sleep function off during sleep timer on, press the **SLEEP** button once, the display will show "Sleep off".
4.   To check the sleep timer status, repeatedly press the **INFO** button until you see the sleep timer information appears in the display.

Hints for better reception
This radio carries a single DAB/FM lead wire antenna, to obtain the best performance, you should fully extend the wire antenna and adjust the position as well as the direction until you find the best reception. For ideal DAB reception, always maintain the lead wire antenna in a vertical position (holding it upward or downward behind the unit) is highly recommended.

DAB mode
If the radio is connected to the power and then switched on from standby for the first time, the radio will automatically enter into the DAB mode and perform auto scan function. During the scan the display will show "Scanning …" together with a slide bar that indicates the progress of the scan and the amount of stations that have been found so far. (F. 3) (F. 4)

F3

F4

Once the scan has finished, the radio will select the first alphanumerically found station. To explore the found stations, first press the **JOG MODE/SELECT** button once, then rotate the **VOLUME/SCROLL** control. When you find a station that you would like to listen, press the **SELECT** button.

Note: If there is no stations found after auto scan, the radio will then enter into the Tune Select Menu, you can now rotate the **VOLUME/SCROLL** control followed by pressing the **SELECT** button to select Manual tune or Auto scan modes for stations.

Auto scan modes
There are two types of auto scan modes, one is local auto scan and the other is full auto scan. Local auto scan will only search for part of the DAB Band III channels and full auto scan will search for the entire DAB Band III channels. After the scan has finished, the first alphanumerically found station will be automatically selected.
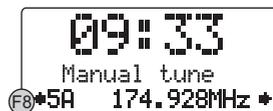1. To activate the auto scan modes, first press the **MENU** button to enter into the Tune Select Menu, then rotate the **VOLUME/SCROLL** control to select "Autoscan local" or "Autoscan full", finally press the **SELECT** button to confirm, the display will show "Scanning …" and a progressing slide bar. (F. 5)(F. 6)

F5

F6

2. All the stations that have been found will be stored automatically, to explore and select listening to the found stations, first press the **JOG MODE/SELECT** button once, then rotate the **VOLUME/SCROLL** control followed by pressing the **SELECT** button.

Manual tune
1. To select manual tune, first press the **MENU** button to enter into the Tune Select Menu, then press the **SELECT** button to select "Manual tune". (F. 7)
2. Rotate the **VOLUME/SCROLL** control to move through the DAB channels, the display will show "5A to 13F" and their associated frequencies.(F. 8)
3. When your desired frequency appears in the display, press the **SELECT** button to confirm. The name of the station group (ensemble/multiplex) will be displayed.
4. To listen to the station selected, press the **SELECT** button again.

F7

F8

Secondary services
On some occasions you will see a ">" symbol directly after the name of the station, this indicates that there are secondary services available to that station. These secondary services contain extra services that relate to the primary station. E.g. a sports station may want to add extra commentaries. The secondary services are inserted directly after the primary station. To select the secondary station, press the **SELECT** button.

FM radio
1. To select FM, press the **DAB+/FM** button, the display will show FM and the frequency.
2. To activate auto search, press and hold the **JOG MODE/SELECT** button until it starts to scan the frequency band, the display will show "Searching …", and it will stop automatically once a station has been found. (F. 9)
3. To activate manual search, first press the **JOG MODE/SELECT** button once, and when the display shows "<Tuning>", rotate the **VOLUME/SCROLL** control until you read the correct frequency or the reception is at its best.
4. To select audio mode, press the **MENU** button to toggle between the "Auto" or "Mono" selection.

Note: The radio will automatically switch between stereo and mono mode, but you can override this and switch this function manually which is helpful for poor signal reception.

STORING AND RECALLING STORED STATIONS

In either DAB or FM mode, you can store up to 10 stations to the presets memory; this will enable you to get direct access to your favourite stations.
1. To store a preset, first tune to your desired station, then press and hold the **PRESET** button until the display shows "Empty preset #", and the preset number will flash. (F. 10)
2. Release the **PRESET** button and rotate the **VOLUME/SCROLL** control to select your desired station preset number, then press the **SELECT** button to confirm your selection, the display will show "Preset # saved". (F. 11)
3. To recall a preset station, first press the **PRESET** button once, then rotate the **VOLUME/SCROLL** control to scroll up or down the presets that you have stored. When the display shows your desired preset number, release the control. If the preset hasn't been allocated a station, the display will show "Empty preset #".

F9: `10:00` / `Searching... >.`
F10: `10:17` / `88.85 MHz    FM` / `◄Empty preset 1►`
F11: `10:17` / `88.85 MHz    FM` / `Preset  2 Saved`

DAB DISPLAY MODES

Every time you press the **INFO** button, the display will cycle through the following display modes:

Time/Date → Frequency → Audio Bit Rate → Signal strength →
Ensemble/Multiplex(Group name) ← Programme Type ← DLS ←

Time and date
The time and date will be automatically updated by the broadcasted information; it is no need to set the clock manually. In the unlikely event that no clock information is received, the display will show "<TIME/DATE>".

Frequency
The frequency of the present station will be displayed.

Audio bit rate
The display will show the digital audio bit rate being received.

Signal strength
The display will show a slide bar to indicate the signal strength, the stronger the signal, the longer the bar will be from left to right.

DLS
DLS stands for Dynamic Label Segment which is a scrolling message that the broadcaster may include in their transmissions. The message usually includes information such as programme details …etc.

Programme type
This describes the style of the programme that is being broadcast. If the information is not available, the display will show "<Programme Type>".

Ensemble/Multiplex (Group name)
The Ensemble/Multiplex is a collection of radio stations that are bundled and transmitted together in a single frequency. There are national and local multiplexes, local ones contain stations that are specific to that area.

Note: Press and hold the **INFO** button for longer than 2 seconds, the software version number will be displayed.

FACTORY RESET

When you move the radio to another part of the country, your pre-tuned and stored DAB stations may no longer be available. If this is the case then you will need to reset your radio back to its original factory settings; to perform a factory reset, please do the following:
1. Plug the radio to mains and press the **STANDBY/ON** button to turn the radio on.
2. Press and hold the **MENU** button until the display shows "Press SELECT to confirm reset".
3. Release the **MENU** button and press the **SELECT** button once, the display will first show "Restarting …" and after the reset is completed, the radio will go to standby.
4. Press the **STANDBY/ON** button again to turn the radio on, it will then automatically enter into the DAB mode and perform auto scan function. After the scan has finished, the radio will select and display the first alphanumerically found station.

Note: All of your stored DAB & FM presets will be lost once the reset has taken place.

DISPLAY AUTO DIMMER

The brightness of the display is automatically adjusted for the room light conditions. It will be reduced when the room lighting is turned off so as not to interfere your sleep. The display will brighten automatically in the daylight or when the room lights are turned on again for better visibility.

MAINTENANCE

Cleaning the unit
Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use benzene, thinners, or alcohol since they will damage the finish of the surfaces.

SPECIFICATION

POWER SUPPLY :	AC~ 240V 50Hz
OUTPUT POWER :	0.5 W
FREQUENCY RANGE :	DAB+ 174.928 - 239.200 MHz
	FM 87.50 - 108.00 MHz
UNIT DIMENSION :	160 (L) x 140 (W) x 50 (H) mm
WEIGHT:	0.6Kg

***SPECIFICATION SUBJECT TO CHANGE WITHOUT FURTHER NOTICE.

TROUBLE SHOOTING

SYMPTOM
POSSIBLE CAUSE CORRECTIVE ACTION

No power
No mains lead plug connection at the AC outlet.
Insert the plug into the AC outlet.

No sound.
Volume control is set to minium.
Turn up the volume.
The wrong function is selected.
Select the correct function.

The operation of the unit or display is not normal.
The unit must be reset.
1. Disconnect the main lead and replug again.
2. Resume operations.

FM stereo broadcast is hard to hear due to much noise.
Weak signal.
Press the **MENU** button to display "MONO".
Reorient the FM aerial wire. Connect the speaker wires firmly to the speaker terminals.

CODE NO.:116403092