

# ROBERTS

Sound for Generations



## RD-76

FM RDS/DAB digital radio

*Rambler*

**DAB**  
Digital Audio Broadcasting

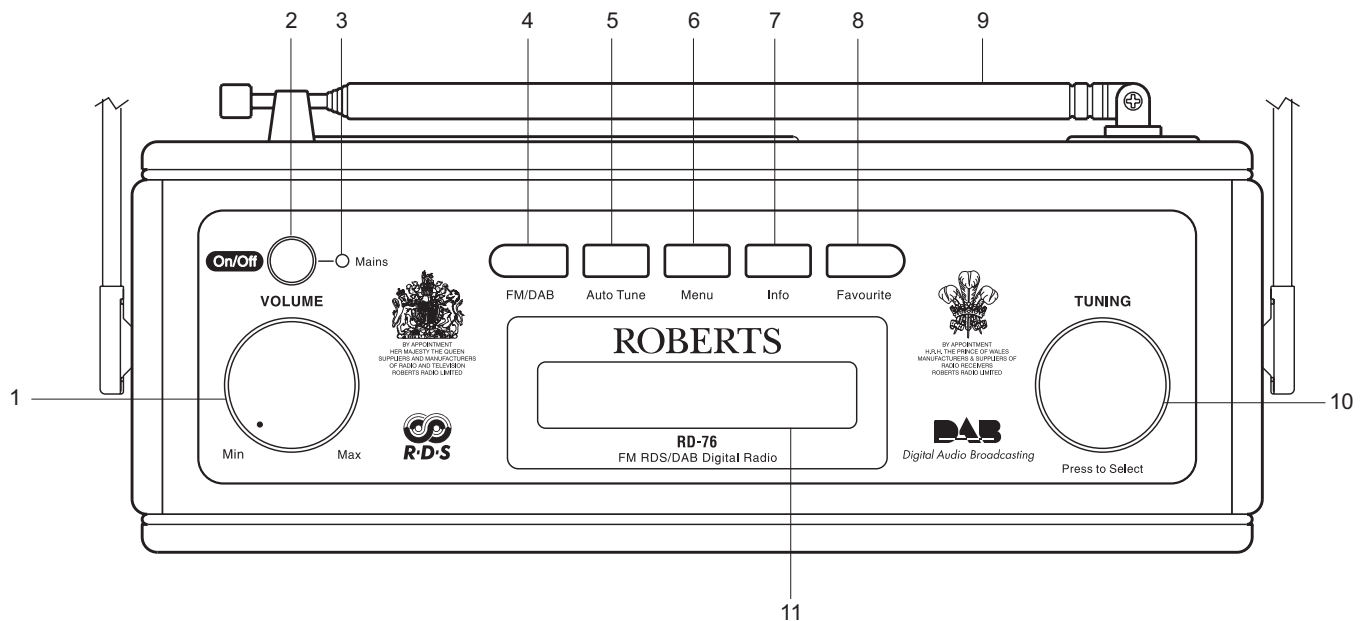
Please read this manual before use

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## Controls

(Top)



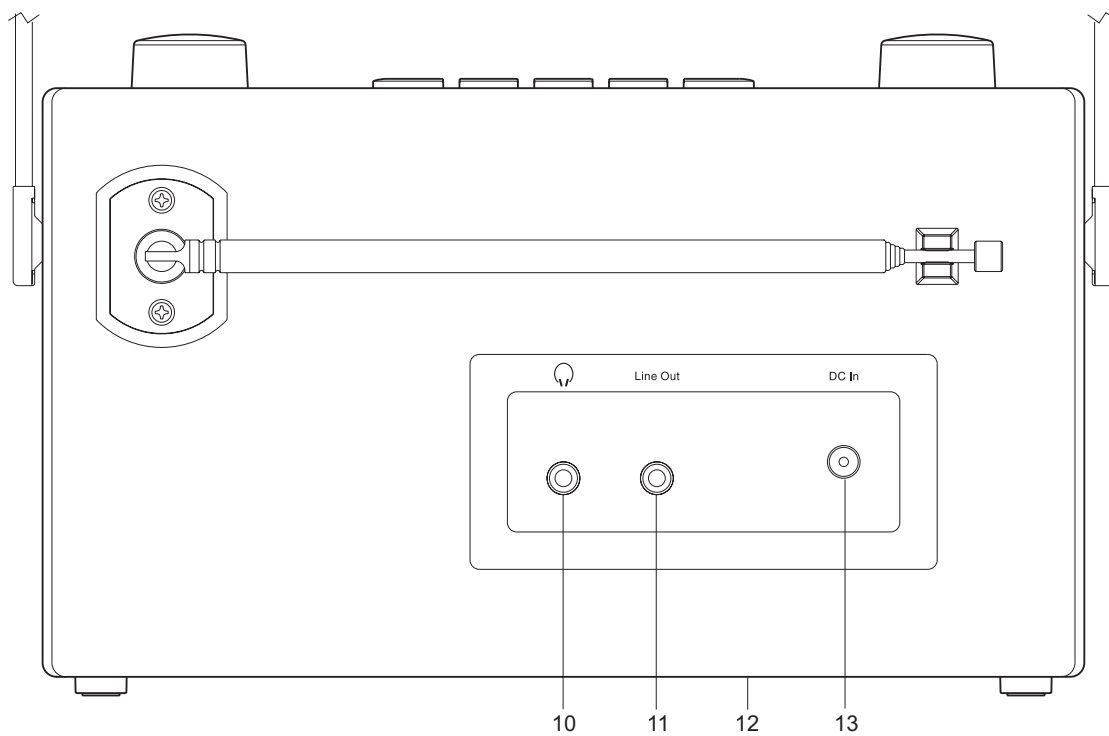
1. Volume control
2. On/off button
3. On/Off indicator
4. FM/DAB button
5. Auto Tune button
6. Menu button

7. Info button
8. Favourite button
9. Telescopic aerial
10. Tuning/Select control
11. LCD display

If you need any further advice, please call our Technical Helpline on :-

020 8758 0338 (Mon-Fri)

## Controls (Back)



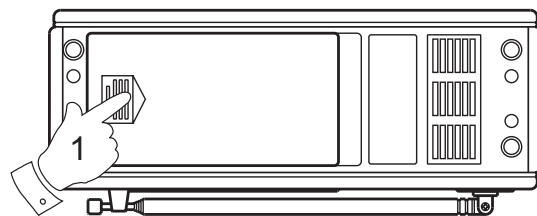
10. Headphone socket  
11. Line output socket

12. Battery compartment  
13. DC jack socket

## Battery operation

1. Remove the battery cover on the base of the unit by sliding the cover in the direction of the arrow.
2. Insert six LR14 (C size) batteries into the spaces in the compartment. Take care to ensure all batteries are inserted with the correct polarity as shown inside the battery compartment. Replace the battery cover.
3. Reduced power, distortion and a 'stuttering' sound are all signs that the batteries may need replacing.
4. If the radio is not to be used for any extended period of time it is recommended that the batteries are removed from the radio.

*We would recommend for economy that the RD-76 is used via the AC adaptor whenever possible with battery operation for occasional or stand-by use only.*

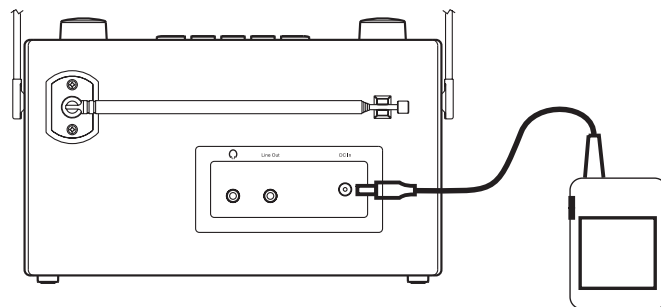


## Using the AC adaptor

The AC adaptor for use with the RD76 should provide 6 volts DC output at 800mA centre pin negative.

1. Insert the adaptor plug into the DC in socket on the rear of your radio.
2. Plug the adaptor into a standard 13A mains socket outlet. Whenever the adaptor is used the batteries are automatically disconnected.

*The AC adaptor should be disconnected from the mains supply and the radio when not in use.*



*If you need any further advice, please call our Technical Helpline on :-*

020 8758 0338 (Mon-Fri)

## Operating your radio - DAB

1. Carefully extend the telescopic aerial.
2. Press the **On/Off button** to switch on your radio. The display will show "Roberts digital radio" for a few seconds and the **On/Off indicator** will light.
3. If this is the first time the radio is used a quick scan of UK Band III DAB channels will be carried out. The display will show "Now tuning". If the radio has been used before the last used station will be selected.
4. During Autotune, the display will show "Scanning" and as each group of stations is detected the station count will be updated. The bottom line of the display shows a bargraph indicating progress of the Autotune.
5. When the Autotune is completed the first station (in numeric-alpha order 0...9...A...Z) will be selected.
6. If the station list is still empty after the Autotune your radio will display "Station not available".
7. If no signals are found it may be necessary to relocate your radio to a position giving better reception.



Roberts  
digital radio

Now tuning...

Scanning... 24  
■■■■■■■■■■

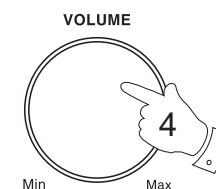
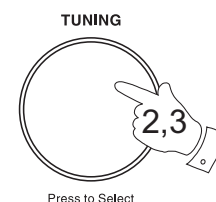
1Xtra DAB  
BBC National

Station not  
available

## Selecting a station - DAB

1. The top line of the display shows the name of the station currently selected.
2. Rotate the **Tuning/Select control** to scroll through the list of available stations. Stop rotating the Tuning/Select control when you find the station that you wish to hear.
3. Press and release the **Tuning/Select control** to select the station. The display may show "Now tuning" while your radio finds the new station.
4. Adjust the **Volume control** to the required setting.

Note: If after selecting a station the display shows "Station not available" it may be necessary to relocate your radio to a position giving better reception.



## Secondary services - DAB

1. Certain radio stations have one or more secondary services associated with them. If a station has a secondary service associated with it the display will show ">" next to the station name on the station list. The secondary service will then appear immediately after the primary service as you rotate the tuning control clockwise.
2. Press the **Tuning/Select control** to select the station.



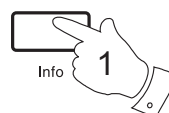
If you need any further advice, please call our Technical Helpline on :-

020 8758 0338 (Mon-Fri)

## Display modes - DAB

Your radio has seven display modes:-

1. Press the **Info button** to cycle through the various modes.



- |                            |   |
|----------------------------|---|
| a. Scrolling text          | Displays scrolling text messages such as artist/track name, phone in number, etc. |
| b. Programme type          | Displays type of station being listened to e.g. Pop, Classic, News, etc.          |
| c. Multiplex name          | Displays name of multiplex to which current station belongs.                      |
| d. Time and date           | Displays current time and date.   |
| e. Channel and frequency   | Displays current channel and frequency.   |
| f. Audio type and bit rate | Displays audio type and bit rate.   |
| g. Signal strength         | Displays signal strength for station being listened to.                           |

a  
BBC 7 DAB  
Just a Minute...

b  
BBC 7 DAB  
Culture

c  
BBC 7 DAB  
BBC National

d  
BBC 7 DAB  
19:17 08-06-2005

e  
BBC 7 DAB  
11C 220.35 MHz

f  
BBC 7 DAB  
128kbps Stereo

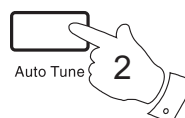
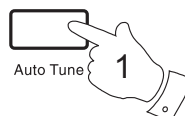
g  
BBC 7 DAB  
■■■■■□■■■■■



## Finding new stations - DAB

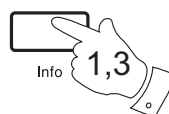
As time passes new stations may become available. To find new stations proceed as follows:-

1. Press and release the **Auto Tune button**, the display will show "Scanning". Your radio will perform a scan of the UK DAB frequencies. As new stations are found the station counter on the right-hand side of the display will increase and stations will be added to the list.
2. To carry out a full scan of the entire DAB Band III frequencies press and hold down the **Auto Tune button** for more than 2 seconds and then release. The display will show "Scanning". As new stations are found the station counter on the right-hand side of the display will increase and stations will be added to the list.



## Signal strength display - DAB

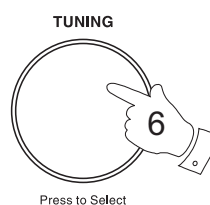
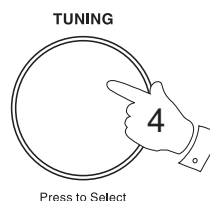
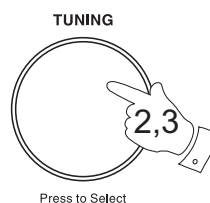
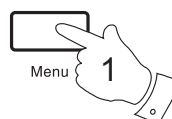
1. Repeatedly press the **Info button** until the display will show signal strength.
2. Position your radio and carefully angle the telescopic aerial for best reception using the signal strength display as a guide. Move your radio around and position so as to give maximum number of black rectangles on signal strength display. The clear unfilled rectangle indicates minimum signal level required for satisfactory reception.
3. Press the **Info button** to exit the signal strength display.



## Manual Tuning - DAB

Manual tuning allows you to tune directly to the various DAB Band III channels. UK DAB stations located in the range 11B to 12D.

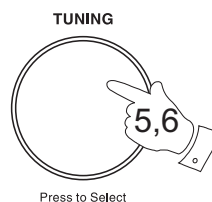
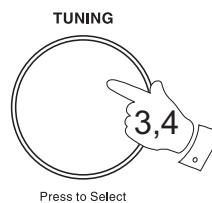
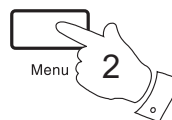
1. Press and release the **Menu button** until the display shows "Manual tune".
2. Press and release the **Tuning/Select control**.
3. Rotate the **Tuning/Select control** to find the required DAB channel.
4. Press and release the **Tuning/Select control** to select the required DAB channel.
5. Use the signal level display to assist you in positioning your radio for best reception. Move the radio/aerial around until the filled blocks move past the empty block. When you are receiving a good signal the display will show the multiplex name and add stations within the multiplex to the station list.
6. Press and release the **Tuning/Select control** to return to normal tuning mode.



## Dynamic Range Control (DRC) settings - DAB

DRC can make quieter sounds easier to hear when your radio is used in a noisy environment.

1. Press the **On/Off button** to switch on your radio.
2. Press and release the **Menu button** the display will show "Manual tune."
3. Rotate the **Tuning/Select control** until the display shows "DRC value".
4. Press and release the **Tuning/Select control** to enter adjustment mode.
5. Rotate the **Tuning/Select control** to select required DRC setting (default is 0) .
  - DRC 0 DRC is switched off, Broadcast DRC will be ignored.
  - DRC 1/2 DRC level is set to 1/2 that sent by broadcaster.
  - DRC 1 DRC is set as sent by broadcaster.
6. Press and release the **Tuning/Select control** to confirm the setting. The display will return to radio mode.



Manual tune

DRC value

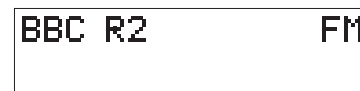
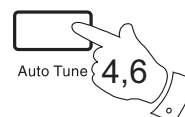
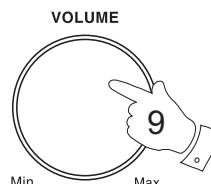
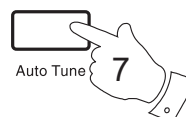
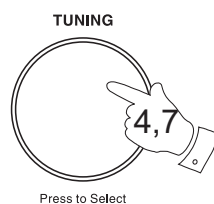
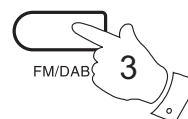
DRC0  
DRC0

DRC0  
DRC 1/2

DRC0  
DRC 1

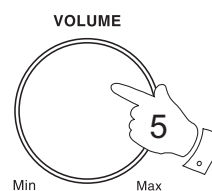
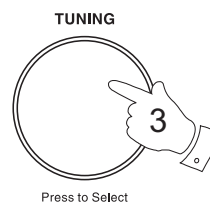
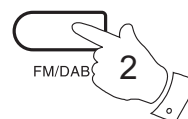
## Operating your radio - FM

1. Carefully extend the telescopic aerial.
2. Press the **On/Off button** to switch on your radio. The display will show "Roberts digital radio" for a few seconds.
3. Press the **FM/DAB button** to select the FM band.
4. Rotate the **Tuning/Select control** clockwise then press and immediately release the **Auto Tune button**, your radio will scan in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength.
5. After a few seconds the display will update and show station name.
6. To find other stations press and release the **Auto Tune button** as before.
7. To scan the FM band in a downwards direction (high frequency to low frequency) rotate the **Tuning/Select control** anti-clockwise then press and release the **Auto Tune button**.
8. When the waveband end is reached your radio will recommence tuning from the opposite waveband end.
9. Adjust the **Volume control** to the required setting.
10. To switch off your radio press the **On/Off button**.



## Manual tuning - FM

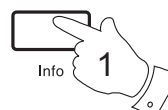
1. Press the **On/Off button** to switch on your radio.
2. Press the **FM/DAB button** to select the FM band. Fully extend the **Telescopic aerial**.
3. Rotate the **Tuning/Select control** to tune to a station. The frequency will change in steps of 50kHz.
4. When the waveband end is reached the radio will recommence tuning from the opposite waveband end.
5. Set the **Volume control** to the required setting.
6. To switch off your radio press the **On/Off button**.



## Display modes - FM

On FM the bottom line of the display can be set to any of the following modes:-

1. Press the **Info button** to cycle through the various modes.



- |                           |  |
|---------------------------|--|
| a. Scrolling text         | Displays scrolling text messages such as artist/track name, phone in number etc.                       |
| b. Program Type           | Displays type of station being listened to e.g. Pop, Classic, News, etc.                               |
| c. Time and date          | Displays current time and date.  |
| d. Frequency & audio mode | Displays frequency of the station being listened to and displays the audio mode, Auto (stereo) or mono |

a

BBC R2	FM
The latest news	

b

BBC R2	FM
Pop Music	

c

BBC R2	FM
12:02 16-06-2003	

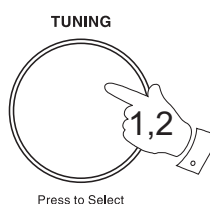
d

BBC R2	FM
88.10MHz (Stereo)	

## FM Stereo/Mono

- If a station being received is weak some hiss may be audible. To reduce the hiss press and hold in the **Tuning/Select control** until the display shows "Mono". Your radio will switch to mono mode.
- To return to stereo mode press and hold in the **Tuning/Select control** until the display shows "Auto". Your radio will switch to stereo mode.

Note: FM stereo is only available when listening via earphone/headphones



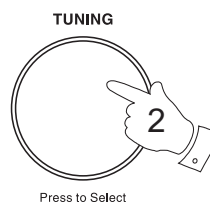
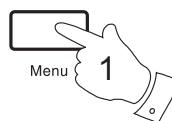
BBC R2	FM
Mono	

BBC R2	FM
Auto (Stereo)	

## Software version

The software display cannot be altered and is just for your reference.

1. Ensure the DAB waveband is selected. To view the software version on the display press and release the **Menu button** the display will show "Manual tune."
2. Rotate the **Tuning/Select control** until the software version appears on the display.



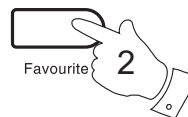
Manual tune

U.130.6.4  
Sw Version

## Favourite button

Your radio is fitted with a button which when pressed will automatically select the required waveband and tune to your Favourite station. This will allow you to store a total of one station from either the FM or DAB waveband.

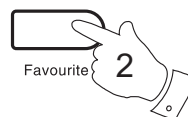
1. To setup your favourite station, tune into the required station.
2. Press and hold down the **Favourite button** (10 sec) until the display shows "Favourite stored".



BBC 7 DAB  
Favourite stored

## Recalling your favourite station

1. Press the **On/Off button** to switch on the radio.
2. Momentarily press the **Favourite button**, your radio will tune to the station stored in favourite memory.



BBC 7  
Just a Minute...

If you need any further advice, please call our Technical Helpline on :-

020 8758 0338 (Mon-Fri)

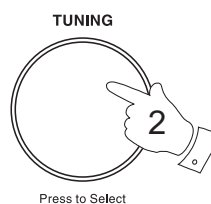
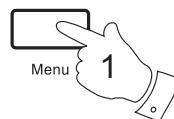
## System reset

If your radio fails to operate correctly, or some digits on the display are missing or incomplete carry out the following procedure.

1. Press and hold down the **Menu button** for 2 seconds "Press SELECT to confirm reset..." will be displayed.
2. Press the **Tuning/Select button**, the display will show "Roberts digital radio" and a progress bar.
3. A full reset will be performed. All presets and station lists will be erased.
4. After a system reset a scan of the DAB band will be performed.

In case of malfunction due to electrostatic discharge, reset the product (reconnection of power source may be required) to resume normal operation.

**If a problem persists our technical staff would be pleased to offer any assistance on operating the radio. Our technical helpline number is 020 8758 0338.**



Press SELECT to  
confirm reset...

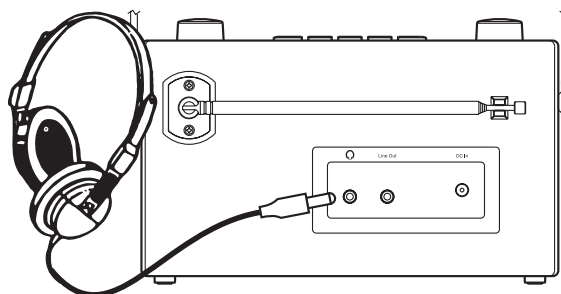
Scanning... 24  
■■■■■■■■■■

BBC 7  
Just a Minute...



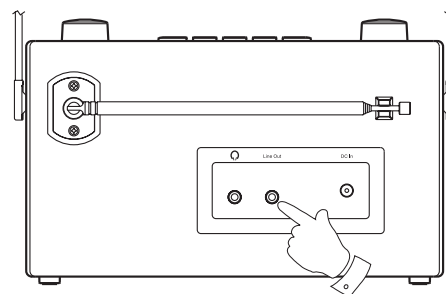
### Headphone socket

A 3.5mm **Headphone Socket** located on the rear of your radio is provided for use with either headphones or an earpiece. Inserting a plug automatically mutes the internal loudspeaker.



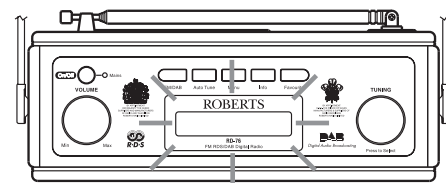
### Line out socket

A 3.5mm **Line out socket** located on the rear of your radio is provided for connecting the audio signal to an external amplifier. Inserting a line out audio cable will not mute the internal loudspeaker. Set the volume control to minimum if desired.



### Display backlight

1. When using on batteries, the display backlight will be switched on for approximately 12 seconds when any button is pressed.
2. When your radio is powered by AC mains the display backlight will always be switched on.



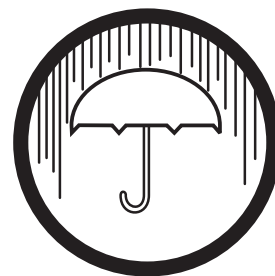
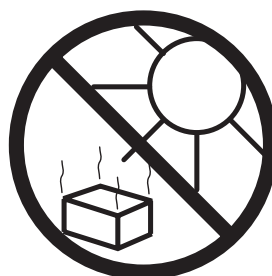
If you need any further advice, please call our Technical Helpline on :-

020 8758 0338 (Mon-Fri)

## General


Do not allow this radio to be exposed to water, steam or sand. Do not leave your radio where excessive heat could cause damage such as in a parked car where the heat from the sun can build up even though the outside temperature may not seem too high. It is recommended that the DAB band be used wherever possible as better results in terms of quality and freedom from interference will usually be obtained than on the FM band.

The name plate is located on the underside of your radio.



## Specifications

### Power Requirements

Mains	AC 230 volts, 50Hz  only (adaptor)
Batteries	6 x LR14 (C size)

### Battery Life

Approx. 50 hours of listening for 4 hours a day at normal volume using alkaline cells.

### Frequency Coverage

FM	87.5-108MHz
DAB	174.928 - 239.200MHz

## Circuit Features

Loudspeaker	76mm	
Output Power	1.0 Watt	
Headphone socket	3.5mm dia	
Line out socket	3.5mm dia	
Aerial System	FM	Telescopic aerial
	DAB	Telescopic aerial

*The Company reserves the right to amend the specification without notice*

## Guarantee

This instrument is guaranteed for twelve months from the date of delivery to the original owner against failure due to faulty workmanship or component breakdown, subject to the procedure stated below. Should any component or part fail during this guarantee period it will be repaired or replaced free of charge.

The guarantee does not cover:

1. Damage resulting from incorrect use.
2. Consequential damage.
3. Receivers with removed or defaced serial numbers.

N.B. Damaged or broken telescopic aerials will not be replaced under guarantee.

Procedure:

Any claim under this guarantee should be made through the dealer from whom the instrument was purchased. It is likely that your Roberts' dealer will be able to attend to any defect quickly and efficiently but should it be necessary the dealer will return the instrument to the Company's service department for attention. In the event that it is not possible to return the instrument to the Roberts' dealer from whom it was purchased, please contact Roberts Radio Technical Services at the address shown on the rear of this manual.

*These statements do not affect the statutory rights of a consumer.*



Issue 1

## ROBERTS RADIO TECHNICAL SERVICES

97-99 Worton Road

Isleworth Middlesex

TW7 6EG

Technical Helpline :- 020 8758 0338 (*Mon-Fri during office hours*)

Website: <http://www.robertsradio.co.uk>

